



## ANELLI DI TENUTA SHAFT SEALS



**CATALOGO TECNICO GENERALE  
GENERAL TECHNICAL CATALOGUE**

**1.07.13**





**CATALOGO TECNICO GENERALE**  
***GENERAL TECHNICAL CATALOGUE***

Distributore / Distributor



**Magazzino automatizzato**  
*Computer warehousing*



**Magazzino automatizzato**  
*Computer warehousing*



**Magazzino automatizzato**  
*Computer warehousing*



**Mescolatore**  
*Rolling Mixer*



**Estrusore**  
*Extruding Machine*



**Trattamento metalli**  
*Surface Treatment*



**Protezione ambientale**  
*Environmental Protection*



**Cementazione**  
*Cementing*



**Post vulcanizzazione**  
*Post Cure*



**Test durata**  
*Life Testing (Reciprocating)*



**Test durata**  
*Life Testing (Rotary)*



**Test durata**  
*Durability Testing*





**Magazzino automatizzato**  
*Computer warehousing*



**Area spedizioni**  
*Shipping Area*



**Tecnologia CNC**  
*CNC Molding*



**Prestampaggio**  
*Vulcanizer*



**Prestampaggio**  
*Vulcanizer*



**Macchina per finitura**  
*Triming Machine*



**Produzione molle**  
*Spring Jointer*



**Produzione molle**  
*Spring Winder*



**Produzione molle**  
*Spring Winder*



**Ingrassaggio automatizzato**  
*Robot for grease*



**Macchina automat. per finitura**  
*Auto Triming*



**Assemblaggio**  
*Assembly*





**Laboratorio test**  
*Curing Curves (Lab)*



**Test rottura**  
*Tensile Strength (Lab)*



**Lop test**  
*Lop Test*



**Spettrofotometro**  
*Rubber Dispersion Checking*



**Profilometro**  
*Lip Inspection*



**Progettazione CAD**  
*Auto Cad System(CAD)*



**Profilometro**  
*Image Measuring*



**Rotondimetro**  
*2D- Measuring*



**Spettroscopio**  
*FTIR Spectroscopy*



**Test resistenza ozono**  
*Ozone Resistance Tester*

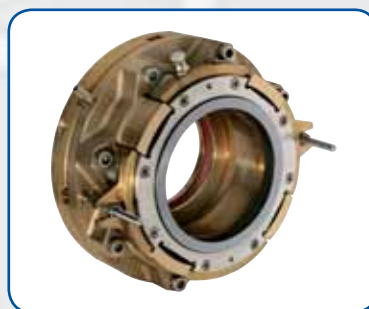


**Reometro**  
*Rheometer & Mooney Tester*



**Test per basse temperature**  
*Low Temperature Tester*







## Garanzia per i prodotti TTO

Questo catalogo si propone di fornire indicazioni per la scelta di un anello standard per una applicazione generica. Le raccomandazioni si basano sui dati tecnici disponibili e vengono considerate come meri suggerimenti. Il singolo utilizzatore dovrà effettuare i propri test per determinare l'idoneità per qualsiasi scopo specifico.

Malfunzionamenti, danni derivanti da cause accidentali, cattivo uso, negligenza, uso improprio, errata applicazione, installazione scorretta, normale usura o qualsiasi difetto derivante da specifiche fornite dall'acquirente non sono coperte da questa garanzia.

## Garanzia limitata

TTO garantisce che tutti gli articoli di sua produzione sono esenti da difetti di lavorazione e di materiale per un anno a partire dalla data di emissione della fattura. Tutte le parti vendute sulle quali riscontreremo un difetto dovuto alla lavorazione o al materiale in condizioni di uso normale, verranno sostituite gratuitamente. Questa è la massima garanzia che TTO può riconoscere per qualsiasi reclamo.

I costi di riparazione, sostituzione, rimozione o nuova installazione di prodotti TTO sono sempre a carico dell'acquirente. TTO si riserva il diritto di chiedere che tutti gli articoli contestati siano resi disponibili e/o restituiti per visione, valutazione e controlli tecnici.

TTO non sarà in nessun caso ritenuta responsabile per qualsiasi danno o spesa consequenziale, speciale o contingente che derivi direttamente o indirettamente da qualsiasi difetto dei suoi prodotti o dell'uso che ne viene fatto e nessuno è autorizzato ad assumersi tale responsabilità.

Questa garanzia sostituisce ogni altra garanzia o responsabilità, ed è l'unica valida e riconosciuta da TTO.

## Warranty for TTO Products

*The catalogue presented here is to provide a guideline for selection of a standard seal for a general purpose application. Recommendations are based on available technical data and are offered as suggestions only. Each user must make his own tests to determine the suitability for any particular purpose or use.*

*Malfunfunctions or damages resulting from accident, abuse, neglect, misuse, misapplication, improper installation, normal wear and tear or any defects resulting from specifications provided by purchaser are not covered by this warranty.*

## Limited Warranty

*TTO guarantees that any product of its manufacture is free from defects in workmanship and material for one year from the date of the Invoice issued by TTO.*

*All parts sold herein that fail due to material or workmanship shown to our satisfaction to be defective under proper usage and service for the designed purpose will be replaced free of charge. This shall be the maximum liability of TTO for all claims.*

*The Buyer's exclusive remedy shall be the repair or replacement of TTO products, but not the cost of removal or installation. TTO reserves the right to require that all warranty claim components are available and/or returned for review and evaluation.*

*TTO will in no event be liable for any consequential, special or contingent damage or expense arising directly or indirectly for any defect in its goods or from the use thereof, nor is any other person authorized to assume for TTO any such liability.*

*This warranty is in lieu of any other warranties and liabilities either expressed or implied, including but not limited to any warranty of merchantability or fitness for any purpose and any liability for consequential damages arising out of the use of the product sold herein.*

### Tai Tsuang Oil Seal Ind. Co. Ltd.

La più lunga storia di produzione di anelli di tenuta a Taiwan

|                            |                                                                                                                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Presidente:</b>         | <b>Sig. Shih-Hsun-Hsu</b>                                                                                                                                                                              |
| <b>Direttore Generale:</b> | <b>Sig. Chin-Hai Hsu</b>                                                                                                                                                                               |
| <b>Dipendenti:</b>         | 400                                                                                                                                                                                                    |
| <b>Superficie:</b>         | 17.000 m <sup>2</sup> (area scoperta) 43.000 m <sup>2</sup> (edifici)                                                                                                                                  |
| <b>Prodotti:</b>           | Anelli di tenuta ed articoli collegati                                                                                                                                                                 |
| <b>Applicazioni:</b>       | Industria automobilistica, motociclistica, marina, macchinari industriali, agricoli, impianti industriali ecc.                                                                                         |
| <b>Materiali:</b>          | NBR, Poliaccrilico, Silicone, Viton, HNBR ecc.                                                                                                                                                         |
| <b>Vendite:</b>            | America, Europa, Africa, Asia, Medio Oriente, Australia, mercato interno e in tutto il mondo                                                                                                           |
| <b>1961</b>                | Inizio della produzione e delle vendite                                                                                                                                                                |
| <b>1974</b>                | Joint venture con la maggior società giapponese del settore                                                                                                                                            |
| <b>1984</b>                | Fondazione di una nuova azienda. Primo stabilimento di 3.000 m <sup>2</sup> . Diffusione del logo TTO in tutto il mondo                                                                                |
| <b>1986</b>                | Brevetto della tecnica di stampaggio sottovuoto                                                                                                                                                        |
| <b>1994</b>                | Costruzione del secondo stabilimento di 2.000 m <sup>2</sup>                                                                                                                                           |
| <b>1995</b>                | Completamento del secondo stabilimento. Investimenti in moderni impianti automatici, aumento della produzione e miglioramento dei tempi di consegna                                                    |
| <b>1993</b>                | Introduzione del sistema di controllo qualità ISO9002                                                                                                                                                  |
| <b>1997</b>                | Riconoscimento del sistema ISO9002 da parte della società britannica BSI                                                                                                                               |
| <b>1998</b>                | Costruzione del terzo stabilimento (dal secondo al quinto piano di 5000 m <sup>2</sup> )                                                                                                               |
| <b>2000</b>                | Aumento delle attrezzature di precisione sul controllo qualità, aggiornamento della qualità TTO per soddisfare i più elevati standard di qualità internazionali. Controllo qualità 100%.               |
| <b>2002</b>                | Aumento della superficie degli uffici (5 piani 3.000 m <sup>2</sup> ). Introduzione del sistema di qualità QS9000.                                                                                     |
| <b>2003</b>                | Riconoscimento del sistema QS9000 da parte della società britannica BSI                                                                                                                                |
| <b>2004</b>                | Costruzione del quinto stabilimento (10.000 m <sup>2</sup> )                                                                                                                                           |
| <b>2006</b>                | Miglioramento del controllo qualità/ Centro ricerca e sviluppo (primo e terzo piano)                                                                                                                   |
| <b>2007</b>                | Costruzione del sesto stabilimento (dal primo all'ottavo piano, 16.500 m <sup>2</sup> ) e sistema di magazzino computerizzato con superficie di 5.000 m <sup>2</sup> (massima capacità: 100.000 celle) |
| <b>2010</b>                | Miglioramento di tutte le attrezzature per ricerca e sviluppo e controllo qualità, sviluppo di anelli per applicazioni speciali.                                                                       |

### Tai Tsuang Oil Seal Ind. Co. Ltd.

Longest history of oil seals manufacturing in Taiwan

|                         |                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>President:</b>       | <b>Mr. Shih-hsun Hsu</b>                                                                                                                                 |
| <b>General Manager:</b> | <b>Mr. Chin-hai Hsu</b>                                                                                                                                  |
| <b>Employment:</b>      | 400                                                                                                                                                      |
| <b>Area:</b>            | 17,000 m <sup>2</sup> (Land) 43,000 m <sup>2</sup> (Building)                                                                                            |
| <b>Products:</b>        | Oil seals & related products                                                                                                                             |
| <b>Application:</b>     | Automobile, Motorcycle, Marine, Industry Machine, Agriculture, Exercise equipment, etc.                                                                  |
| <b>Material:</b>        | NBR, Polyacrylic, Silicone, Viton, HNBR, etc.                                                                                                            |
| <b>Sales:</b>           | America, Europe, Africa, Asia, Middle East, Australia, Local market, and world wide                                                                      |
| <b>1961</b>             | Starting oil seals manufacturing and sales                                                                                                               |
| <b>1974</b>             | Technical Joint venture with Japan, the world leading company                                                                                            |
| <b>1984</b>             | Establish new company, No. 1 factory 3,000 m <sup>2</sup> , promoting our own logo "TTO" all over the world.                                             |
| <b>1986</b>             | Develop patent designed vacuum forming technique.                                                                                                        |
| <b>1994</b>             | Expand No. 2 factory 2,000 m <sup>2</sup>                                                                                                                |
| <b>1995</b>             | No. 2 factory completed. Invest modern automatic facility, increase capacity & improve delivery time.                                                    |
| <b>1993</b>             | Introduce ISO9002 quality assurance system                                                                                                               |
| <b>1997</b>             | Award of ISO9002 by British company BSI                                                                                                                  |
| <b>1998</b>             | Expand No. 3 factory (2-5 floors 5,000 m <sup>2</sup> )                                                                                                  |
| <b>2000</b>             | Expand precision equipments on quality control, upgrade TTO quality to meet the first class international standard.                                      |
| <b>2002</b>             | Expand Office building (5 floors 3,000 m <sup>2</sup> ), Introduce QS9000 quality assurance system.                                                      |
| <b>2003</b>             | Award of ISO9001 and QS9000 by British company BSI                                                                                                       |
| <b>2004</b>             | Expand No. 5 factory (1-5 floors 10,000 m <sup>2</sup> )                                                                                                 |
| <b>2006</b>             | Expand quality/ R&D center (1-3 floors)                                                                                                                  |
| <b>2007</b>             | Expand No. 6 factory (1-8 floors, 16,500 m <sup>2</sup> ) & computerize warehousing system (max capacity: 100,000 cells), land area 5,000 m <sup>2</sup> |
| <b>2010</b>             | Expand all kind equipments for R&D and quality control, develop high technique seals for tough applications.                                             |



### Attrezzature principali:

Miscelatore, rullo, estrusore, attrezzatura per il trattamento superficiale, attrezzature per cementazione, avvolgitori per molle, vulcanizzatore sotto vuoto, forno, macchina rifilatrice, macchina per l'installazione delle molle, assemblatrici di anelli, rettificatrici, verniciatrici, imballatrici, macchine pulitrici ad ultrasuoni, impianto per la pulizia delle acque di scarico, attrezzature per il trattamento dei fanghi ecc.

### Ricerca e sviluppo, controllo qualità:

Controllo di durata (rotatorio e alternativo), controllo per la dispersione della gomma, analisi fisica della gomma, test di durezza, test d'invecchiamento, test di resistenza alla trazione, test di allungamento, compression test, gravità specifica, test di usura, Lop Test, proiettore di profili, misurazioni laser, sistema di misurazione bidimensionale, sistema video di misurazione automatica, test a bassa temperatura, test di recupero a bassa temperatura, test nebbia salina, test per l'ozono, test della forza radiale sul labbro, ecc.

La nostra azienda è nata come una joint venture tecnica con una azienda giapponese produttrice di anelli tenuta. Successivamente abbiamo continuato a sviluppare nuove mescole per ogni tipo di applicazione. Mediante l'uso di attrezzature per il controllo della durata possiamo verificare il materiale in condizioni specifiche ed i risultati ottenuti possono essere utilizzati per migliorare gli altri prodotti

In un'ottica di sviluppo internazionale abbiamo introdotto i noti sistemi di controllo qualità ISO9001 e QS9000 a controlliamo pertanto ogni stadio del processo produttivo, raggiungendo così livelli di servizio elevati ed affidabili.

TTO è conosciuta in tutto il mondo. I nostri 50 anni di esperienza ci hanno consentito di conoscere a fondo le caratteristiche dell'uso e della produzione degli anelli di tenuta. Tutti i processi produttivi sono eseguiti internamente, come la progettazione (autocad), lo stampaggio, il trattamento della gabbia in metallo (computerizzato), le molle, la vulcanizzazione (sottovuoto), l'imballaggio.

Per poter essere sempre più competitivi stiamo mettendo a punto sistemi sempre più automatizzati per rendere i nostri servizi più efficienti. I nostri clienti avranno il miglior rapporto qualità/prezzo. Il nostro obiettivo è di conquistare la fiducia dei clienti e divenire il punto di riferimento per tutti gli utilizzatori di anelli di tenuta.

### Main Facility

Mixer, Roller, Extruder, Surface Treatment, Cementing equipment, Spring Winder, Spring Jointer, Vacuum Vulcanizer, Post Cure Oven, Trimming Machine, Spring Installing Machine, Seal Assembly Machine, Grinding Machine, Auto Painting equipment, Auto Packing Machine, CNC tooling machine, Super sonic cleaning machine, Waste water refresher equipment, Mud processing equipment, etc.

### R&D, Quality control

Life Testing (rotary & reciprocating), Rubber Dispersion checking, Physical Analysis of Rubber, Hardness Test, Aging Test, Tensile Strength, Elongation Test, Compression Set, Specific Gravity, Wear Test, LOP Test, Curing Curves, Profile Projector(X2,000), Laser Measuring, 2 dimensional Measuring System, Auto video measuring system, Low temperature blister tester, Low temperature recovery tester, Salt water spray tester, Ozone tester, Mooner tester, Radial force lip tester, etc.

Originally based on technical joint venture with Japanese oil seal company, we continue to research new compounds for all applications. Through life testing equipment, we verify the actual material under specific conditions and the testing data can be apply to upgrade our other products.

In view of international developing, we introduce the well known quality assurance system ISO9001 and QS9000 into our company to control every stage of the process. This is to achieve consistent and reliable services.

TTO has been enjoying a leading reputation. In gathering our 50 years experience we clearly understand the characteristics of seal's usage and manufacturing. From designing (Auto CAD), molding, metal case treatment (computer control), spring, vulcanization (vacuum forming) to package, all process are manufactured by ourselves.

In order to stay ahead of our competition, we are developing more and more automatic equipment to provide efficient services. Customers will get the lowest cost for the highest quality products. Our goal is to win customer's trust as long term supplier for your oil seal requirements.

# Tabella conversione pollici/mm. Conversion table inches/mm.

TTO

1"=25,4 mm.

| Pollici - Inch        |                      |                          |         |         |          |          |          |          |          |          |          |          |
|-----------------------|----------------------|--------------------------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
| Frazione<br>Fractions | Decimali<br>Decimals | 0"                       | 1"      | 2"      | 3"       | 4"       | 5"       | 6"       | 7"       | 8"       | 9"       | 10"      |
|                       |                      | Millimetri - Millimetres |         |         |          |          |          |          |          |          |          |          |
| 0                     | 0,000000             | 0,0000                   | 25,4000 | 50,8000 | 76,2000  | 101,6000 | 127,0000 | 152,4000 | 177,8000 | 203,2000 | 228,6000 | 254,0000 |
| 1/64                  | 0,015625             | 0,3969                   | 25,7969 | 51,1969 | 76,5969  | 101,9969 | 127,3969 | 152,7969 | 178,1969 | 203,5969 | 228,9969 | 254,3969 |
| 1/32                  | 0,031250             | 0,7938                   | 26,1938 | 51,5938 | 76,9938  | 102,3938 | 127,7938 | 153,1938 | 178,5938 | 203,9938 | 229,3938 | 254,7938 |
| 3/64                  | 0,046875             | 1,1906                   | 26,5906 | 51,9906 | 77,3906  | 102,7906 | 128,1906 | 153,5906 | 178,9906 | 204,3906 | 229,7906 | 255,1906 |
| 1/16                  | 0,062500             | 1,5875                   | 26,9875 | 52,3875 | 77,7875  | 103,1875 | 128,5875 | 153,9875 | 179,3875 | 204,7875 | 230,1875 | 255,5875 |
| 5/64                  | 0,078125             | 1,9844                   | 27,3844 | 52,7844 | 78,1844  | 103,5844 | 128,9844 | 154,3844 | 179,7844 | 205,1844 | 230,5844 | 255,9844 |
| 3/32                  | 0,093750             | 2,3812                   | 27,7812 | 53,1812 | 78,5812  | 103,9812 | 129,3812 | 154,7812 | 180,1812 | 205,5812 | 230,9812 | 256,3812 |
| 7/64                  | 0,109375             | 2,7781                   | 28,1781 | 53,5781 | 78,9781  | 104,3781 | 129,7781 | 155,1781 | 180,5781 | 205,9781 | 231,3781 | 256,7781 |
| 1/8                   | 0,125000             | 3,1750                   | 28,5750 | 53,9750 | 79,3750  | 104,7750 | 130,1750 | 155,5750 | 180,9750 | 206,3750 | 231,7750 | 257,1750 |
| 9/64                  | 0,140625             | 3,5719                   | 28,9719 | 54,3719 | 79,7719  | 105,1719 | 130,5719 | 155,9719 | 181,3719 | 206,7719 | 232,1719 | 257,5719 |
| 5/32                  | 0,156250             | 3,9688                   | 29,3688 | 54,7688 | 80,1688  | 105,5688 | 130,9688 | 156,3688 | 181,7688 | 207,1688 | 232,5688 | 257,9688 |
| 11/64                 | 0,171875             | 4,3656                   | 29,7656 | 55,1656 | 80,5656  | 105,9656 | 131,3656 | 156,7656 | 182,1656 | 207,5656 | 232,9656 | 258,3656 |
| 3/16                  | 0,187500             | 4,7625                   | 30,1625 | 55,5625 | 80,9625  | 106,3625 | 131,7625 | 157,1625 | 182,5625 | 207,9625 | 233,3625 | 258,7625 |
| 13/64                 | 0,203125             | 5,1594                   | 30,5594 | 55,9594 | 81,3594  | 106,7594 | 132,1594 | 157,5594 | 182,9594 | 208,3594 | 233,7594 | 259,1594 |
| 7/32                  | 0,218750             | 5,5562                   | 30,9562 | 56,3562 | 81,7562  | 107,1562 | 132,5562 | 157,9562 | 183,3562 | 208,7562 | 234,1562 | 259,5562 |
| 15/64                 | 0,234375             | 5,9531                   | 31,3531 | 56,7531 | 82,1531  | 107,5531 | 132,9531 | 158,3531 | 183,7531 | 209,1531 | 234,5531 | 259,9531 |
| 1/4                   | 0,250000             | 6,3500                   | 31,7500 | 57,1500 | 82,5500  | 107,9500 | 133,3500 | 158,7500 | 184,1500 | 209,5500 | 234,9500 | 260,3500 |
| 17/64                 | 0,265625             | 6,7469                   | 32,1469 | 57,5469 | 82,9469  | 108,3469 | 133,7469 | 159,1469 | 184,5469 | 209,9469 | 235,3469 | 260,7469 |
| 9/32                  | 0,281250             | 7,1438                   | 32,5438 | 57,9438 | 83,3438  | 108,7438 | 134,1438 | 159,5438 | 184,9438 | 210,3438 | 235,7438 | 261,1438 |
| 19/64                 | 0,296875             | 7,5406                   | 32,9406 | 58,3406 | 83,7406  | 109,1406 | 134,5406 | 159,9406 | 185,3406 | 210,7406 | 236,1406 | 261,5486 |
| 5/16                  | 0,312500             | 7,9375                   | 33,3375 | 58,7375 | 84,1375  | 109,5375 | 134,9375 | 160,3375 | 185,7375 | 211,1375 | 236,5375 | 261,9375 |
| 21/64                 | 0,328125             | 8,3344                   | 33,7344 | 59,1344 | 84,5344  | 109,9344 | 135,3344 | 160,7344 | 186,1344 | 211,5344 | 236,9344 | 262,3344 |
| 11/8                  | 0,343750             | 8,7312                   | 34,1312 | 59,5312 | 84,9312  | 110,3312 | 135,7312 | 161,1312 | 186,5312 | 211,9312 | 237,3312 | 262,7312 |
| 23/64                 | 0,359375             | 9,1281                   | 34,5281 | 59,9281 | 85,3281  | 110,7281 | 136,1281 | 161,5281 | 186,9281 | 212,3281 | 237,7281 | 263,1281 |
| 3/8                   | 0,375000             | 9,5250                   | 34,9250 | 60,3250 | 85,7250  | 111,1250 | 136,5250 | 161,9250 | 187,3250 | 212,7250 | 238,1250 | 263,5250 |
| 25/64                 | 0,390625             | 9,9219                   | 35,3219 | 60,7219 | 86,1219  | 111,5219 | 136,9219 | 162,3219 | 187,7219 | 213,1219 | 238,5219 | 263,9219 |
| 13/32                 | 0,406250             | 10,3188                  | 35,7188 | 61,1188 | 86,5188  | 111,9188 | 137,3188 | 162,7188 | 188,1188 | 213,5188 | 238,9188 | 264,3188 |
| 27/64                 | 0,421875             | 10,7156                  | 36,1156 | 61,5156 | 86,9156  | 112,3156 | 137,7156 | 163,1156 | 188,5156 | 213,9156 | 239,3156 | 264,7156 |
| 7/16                  | 0,437500             | 11,1125                  | 36,5125 | 61,9125 | 87,3125  | 112,7125 | 138,1125 | 163,5125 | 188,9125 | 214,3125 | 239,7125 | 265,1125 |
| 29/64                 | 0,453125             | 11,5094                  | 36,9094 | 62,3094 | 87,7094  | 113,1094 | 138,5094 | 163,9094 | 189,3094 | 214,7094 | 240,1094 | 265,5094 |
| 15/32                 | 0,468750             | 11,9062                  | 37,3062 | 62,7062 | 88,1062  | 113,5062 | 138,9062 | 164,3062 | 189,7062 | 215,1062 | 240,5062 | 265,9062 |
| 31/64                 | 0,484375             | 12,3031                  | 37,7031 | 63,1031 | 88,5031  | 113,9031 | 139,3031 | 164,7031 | 190,1031 | 215,5031 | 240,9031 | 266,3031 |
| 1/2                   | 0,500000             | 12,7000                  | 38,1000 | 63,5000 | 88,9000  | 114,3000 | 139,7000 | 165,1000 | 190,5000 | 215,9000 | 241,3000 | 266,7000 |
| 33/64                 | 0,515625             | 13,0969                  | 38,4969 | 63,8969 | 89,2969  | 114,6969 | 140,0969 | 165,4969 | 190,8969 | 216,2969 | 241,6969 | 267,0969 |
| 17/32                 | 0,531250             | 13,4938                  | 38,8938 | 64,2938 | 89,6938  | 115,0938 | 140,4938 | 165,8938 | 191,2938 | 216,6938 | 242,0938 | 267,4938 |
| 35/64                 | 0,546875             | 13,8906                  | 39,2906 | 64,6906 | 90,0906  | 115,4906 | 140,8906 | 166,2906 | 191,6906 | 217,0906 | 242,4906 | 267,8906 |
| 9/16                  | 0,562500             | 14,2875                  | 39,6875 | 65,0875 | 90,4875  | 115,8875 | 141,2875 | 166,6875 | 192,0875 | 217,4875 | 242,8875 | 268,2875 |
| 37/64                 | 0,578125             | 14,6844                  | 40,0844 | 65,4844 | 90,8844  | 116,2844 | 141,6844 | 167,0844 | 192,4844 | 217,8844 | 243,2844 | 268,6844 |
| 19/32                 | 0,593750             | 15,0812                  | 40,4812 | 65,8812 | 91,2812  | 116,6812 | 142,0812 | 167,4812 | 192,8812 | 218,2812 | 243,6812 | 269,0812 |
| 39/64                 | 0,609375             | 15,4781                  | 40,8781 | 66,2781 | 91,6781  | 117,0781 | 142,4781 | 167,8781 | 193,2781 | 218,6781 | 244,0781 | 269,4781 |
| 5/8                   | 0,625000             | 15,8750                  | 41,2750 | 66,6750 | 92,0750  | 117,4750 | 142,8750 | 168,2750 | 193,6750 | 219,0750 | 244,4750 | 269,8750 |
| 41/64                 | 0,640625             | 16,2719                  | 41,6719 | 67,0719 | 92,4719  | 117,8719 | 143,2719 | 168,6719 | 194,0719 | 219,4719 | 244,8719 | 270,2719 |
| 21/32                 | 0,656250             | 16,6688                  | 42,0688 | 67,4688 | 92,8688  | 118,2688 | 143,6688 | 169,0688 | 194,4688 | 219,8688 | 245,2688 | 270,6688 |
| 43/64                 | 0,671875             | 17,0656                  | 42,4656 | 67,8656 | 93,2656  | 118,6656 | 144,0656 | 169,4656 | 194,8656 | 220,2656 | 245,6656 | 271,0656 |
| 11/16                 | 0,687500             | 17,4625                  | 42,8625 | 68,2625 | 93,6625  | 119,0625 | 144,4625 | 169,8625 | 195,2625 | 220,6625 | 246,0625 | 271,4625 |
| 45/64                 | 0,703125             | 17,8594                  | 43,2594 | 68,6594 | 94,0594  | 119,4594 | 144,8594 | 170,2594 | 195,6594 | 221,0594 | 246,4594 | 271,8594 |
| 23/32                 | 0,718750             | 18,2562                  | 43,6562 | 69,0562 | 94,4562  | 119,8562 | 145,2562 | 170,6562 | 196,0562 | 221,4562 | 246,8562 | 272,2562 |
| 47/64                 | 0,734375             | 18,6531                  | 44,0531 | 69,4531 | 94,8531  | 120,2531 | 145,6531 | 171,0531 | 196,4531 | 221,8531 | 247,2531 | 272,6531 |
| 3/4                   | 0,750000             | 19,0500                  | 44,4500 | 69,8500 | 95,2500  | 120,6500 | 146,0500 | 171,4500 | 196,8500 | 222,2500 | 247,6500 | 273,0500 |
| 49/64                 | 0,765625             | 19,4469                  | 44,8469 | 70,2469 | 95,6469  | 121,0469 | 146,4469 | 171,8469 | 197,2469 | 222,6469 | 248,0469 | 273,4469 |
| 25/32                 | 0,781250             | 19,8438                  | 45,2438 | 70,6438 | 96,0438  | 121,4438 | 146,8438 | 172,2438 | 197,6438 | 223,0438 | 248,4438 | 273,8438 |
| 51/64                 | 0,796875             | 20,2406                  | 45,6406 | 71,0406 | 96,4406  | 121,8406 | 147,2406 | 172,6406 | 198,0406 | 223,4406 | 248,8406 | 274,2406 |
| 13/16                 | 0,812500             | 20,6375                  | 46,0375 | 71,4375 | 96,8375  | 122,2375 | 147,6375 | 173,0375 | 198,4375 | 223,8375 | 249,2375 | 274,6375 |
| 53/64                 | 0,828125             | 21,0344                  | 46,4344 | 71,8344 | 97,2344  | 122,6344 | 148,0344 | 173,4344 | 198,8344 | 224,2344 | 249,6344 | 275,0344 |
| 27/32                 | 0,843750             | 21,4312                  | 46,8312 | 72,2312 | 97,6312  | 123,0312 | 148,4312 | 173,8312 | 199,2312 | 224,6312 | 250,0312 | 275,4312 |
| 55/64                 | 0,859375             | 21,8281                  | 47,2281 | 72,6281 | 98,0281  | 123,4281 | 148,8281 | 174,2281 | 199,6281 | 225,0281 | 250,4281 | 275,8281 |
| 7/8                   | 0,875000             | 22,2250                  | 47,6250 | 73,0250 | 98,4250  | 123,8250 | 149,2250 | 174,6250 | 200,0250 | 225,4250 | 250,8250 | 276,2250 |
| 57/64                 | 0,890625             | 22,6219                  | 48,0219 | 73,4219 | 98,8219  | 124,2219 | 149,6219 | 175,0219 | 200,4219 | 225,8219 | 251,2219 | 276,6219 |
| 29/32                 | 0,906250             | 23,0188                  | 48,4188 | 73,8188 | 99,2188  | 124,6188 | 150,0188 | 175,4188 | 200,8188 | 226,2188 | 251,6188 | 277,0188 |
| 59/64                 | 0,921875             | 23,4156                  | 48,8156 | 74,2156 | 99,6156  | 125,0156 | 150,4156 | 175,8156 | 201,2156 | 226,6156 | 252,0156 | 277,4156 |
| 15/16                 | 0,937500             | 23,8125                  | 49,2125 | 74,6125 | 100,0125 | 125,4125 | 150,8125 | 176,2125 | 201,6125 | 227,0125 | 252,4125 | 277,8125 |
| 61/64                 | 0,953125             | 24,2094                  | 49,6094 | 75,0094 | 100,4094 | 125,8094 | 151,2094 | 176,6094 | 202,0094 | 227,4094 | 252,8094 | 278,2094 |
| 31/32                 | 0,968759             | 24,6062                  | 50,0062 | 75,4062 | 100,8062 | 126,2062 | 151,6062 | 177,0062 | 202,4062 | 227,8062 | 253,2062 | 278,6062 |
| 63/64                 | 0,984375             | 25,0031                  | 50,4031 | 75,8031 | 101,2031 | 126,6031 | 152,0031 | 177,4031 | 202,8031 | 228,2031 | 253,6031 | 279,0031 |



## Anelli di tenuta

|                                                                                                                  |    |
|------------------------------------------------------------------------------------------------------------------|----|
| 1. Caratteristiche dell'anello di tenuta                                                                         |    |
| 1.1 Funzionamento dell'anello di tenuta                                                                          | 18 |
| 2. Classificazione                                                                                               |    |
| 2.1 Classificazione per labbro di tenuta                                                                         | 19 |
| 2.2 Classificazione per struttura esterna                                                                        | 19 |
| 3. Tipi di anelli di tenuta TTO                                                                                  |    |
| 3.1 Tipologie degli anelli di tenuta                                                                             | 20 |
| 3.2 Tipi TTO: 3 / 4 (Moto alternativo) / 5 (Flangiati)                                                           | 21 |
| 3.3 Tipi TTO: 6 / 7 / Tappi di chiusura                                                                          | 22 |
| 3.4 Tipi TTO: W (Superficie esterna ondulata)<br>B C / Anelli raschiatori                                        | 23 |
| 3.5 Tipi TTO: E / L3 / O (Tenuta esterna)                                                                        | 24 |
| 3.6 Tipi TTO: Tenute per valvole / Bonded<br>Seals / V-ring / Alta pressione                                     | 25 |
| 3.7 Tipi TTO: Tenute per idroguidi                                                                               | 26 |
| 3.8 Tipi TTO: Tenute per applicazioni nel settore<br>agricolo - Esecuzioni speciali<br>(S, X, Y indica speciale) | 27 |
| 3.9 Tipi TTO: Anelli di tenuta per automotive / PS                                                               | 28 |
| 3.10 Tipi TTO: Anelli di tenuta per automotive /<br>PS, PSO, PSX, PSA                                            | 29 |
| 4. Caratteristiche tecniche                                                                                      | 30 |
| 5. Disegno elicoidale                                                                                            | 32 |
| 6. Materiale degli anelli di tenuta                                                                              | 33 |
| 7. Condizioni di funzionamento                                                                                   | 34 |
| 7.1 Temperatura                                                                                                  | 34 |
| 7.2 Pressione                                                                                                    | 35 |
| 7.3 Velocità                                                                                                     | 35 |
| 7.4 Lubrificazione                                                                                               | 36 |
| 7.5 Velocità lineare                                                                                             | 36 |
| 8. Parti metalliche                                                                                              | 37 |
| 8.1 Albero                                                                                                       | 37 |
| 8.2 Sede                                                                                                         | 39 |
| 9. Struttura dell'albero                                                                                         | 40 |
| 10. Tolleranze costruttive anelli di tenuta                                                                      | 41 |
| 11. Montaggio e controllo visivo                                                                                 | 42 |
| 12. Immagazzinaggio                                                                                              | 43 |
| 13. Tappi di chiusura                                                                                            | 43 |
| 14. Anelli di tenuta per bussole di scorrimento                                                                  | 43 |
| 15. Bonded seals BO-1                                                                                            | 44 |

## Anelli di tenuta

### Tabelle dimensionali

|                                                                       |    |
|-----------------------------------------------------------------------|----|
| Anelli di tenuta standard in NBR e FPM                                | 46 |
| Anelli di tenuta per alte pressioni <b>SCV-P-HP</b> / <b>TCV-P-HP</b> | 62 |
| Tappi di chiusura <b>EC-ECW-VK</b>                                    | 64 |
| Anelli di tenuta per bussole di scorrimento <b>VCW</b>                | 65 |
| Anelli di tenuta per bussole di scorrimento <b>VC</b>                 | 66 |
| Anelli di tenuta per bussole di scorrimento <b>VB</b>                 | 67 |
| Bonded seals <b>BO-1</b>                                              | 68 |

## Shaft seals

|                                                                                                           |    |
|-----------------------------------------------------------------------------------------------------------|----|
| 1. Characteristics of rotary shaft seals                                                                  |    |
| 1.1 Working principle of rotary shaft seals                                                               | 18 |
| 2. Classifications                                                                                        |    |
| 2.1 Classification by sealing element                                                                     | 19 |
| 2.2 Classification by structure                                                                           | 19 |
| 3. Type of TTO shaft seals                                                                                |    |
| 3.1 Common types of TTO shaft seals                                                                       | 20 |
| 3.2 TTO type: 3 / 4 (Reciprocation) / 5 (Flanged)                                                         | 21 |
| 3.3 TTO type: 6 / 7 / End covers                                                                          | 22 |
| 3.4 TTO type: W (Corrugated outer diameter)<br>B C / Wiper seals                                          | 23 |
| 3.5 TTO type: E / L3 / O (Outward design)                                                                 | 24 |
| 3.6 TTO type: Valve seals / Bonded seals /<br>V-Ring / High pressure                                      | 25 |
| 3.7 TTO type: Power steering seals                                                                        | 26 |
| 3.8 TTO type: Seals for applications in agriculture sector -<br>Special execution (S, X, Y means special) | 27 |
| 3.9 TTO type: Automatic transmission seals / PS                                                           | 28 |
| 3.10 TTO type: Automatic transmission seals /<br>PS, PSO, PSX, PSA                                        | 29 |
| 4. Technical characteristics                                                                              | 30 |
| 5. Helix design                                                                                           | 32 |
| 6. Shaft seals materials                                                                                  | 33 |
| 7. Working conditions                                                                                     | 34 |
| 7.1 Temperature                                                                                           | 34 |
| 7.2 Pressure                                                                                              | 35 |
| 7.3 Speed                                                                                                 | 35 |
| 7.4 Lubrication                                                                                           | 36 |
| 7.5 Linear speed                                                                                          | 36 |
| 8. Metal parts                                                                                            | 37 |
| 8.1 Shaft                                                                                                 | 37 |
| 8.2 Housing bore                                                                                          | 39 |
| 9. Shaft structure                                                                                        | 40 |
| 10. Manufacturing tolerances                                                                              | 41 |
| 11. Assembly and appearance of rotary shaft seals                                                         | 42 |
| 12. Storage                                                                                               | 43 |
| 13. End covers                                                                                            | 43 |
| 14. Seals for sliding ball bushing                                                                        | 43 |
| 15. BO-1 bonded seals                                                                                     | 44 |

## Shaft seals

### Dimensional tables

|                                                                 |    |
|-----------------------------------------------------------------|----|
| Standard shaft seals in NBR and FPM                             | 46 |
| <b>SCV-P-HP</b> / <b>TCV-P-HP</b> shaft seals for high pressure | 62 |
| <b>EC-ECW-VK</b> end covers                                     | 64 |
| <b>VCW</b> seals for sliding ball bushing                       | 65 |
| <b>VC</b> seals for sliding ball bushing                        | 66 |
| <b>VB</b> seals for sliding ball bushing                        | 67 |
| <b>BO-1</b> bonded seals                                        | 68 |

## **Anelli di tenuta PROTEK**

|                                |    |
|--------------------------------|----|
| Caratteristiche tecniche ..... | 70 |
| Tabelle dimensionali           |    |
| Kopro R .....                  | 74 |
| Kopro 9R .....                 | 74 |
| Kopro TAFM / TAFE .....        | 75 |
| Kopro TCN .....                | 75 |
| Kopro DAPU .....               | 75 |
| Kopro TCA .....                | 75 |
| Kopro TC7-TB7 / TC9-TB9 .....  | 76 |
| Skudo QA .....                 | 78 |
| Skudo QLF .....                | 78 |
| Skudo UA .....                 | 78 |

## **Anelli di tenuta in esecuzione speciale**

|                                               |    |
|-----------------------------------------------|----|
| Caratteristiche tecniche .....                | 80 |
| Tabelle dimensionali                          |    |
| Anelli di tenuta in esecuzione speciale ..... | 81 |

## **Anelli Raschiatori**

|                               |     |
|-------------------------------|-----|
| 1 Utilizzo .....              | 120 |
| 2 Condizioni di impiego ..... | 120 |
| Tabelle dimensionali          |     |
| Raschiatori <b>DSI</b> .....  | 121 |
| Raschiatori <b>GA</b> .....   | 121 |
| Raschiatori <b>GC</b> .....   | 122 |
| Raschiatori <b>DKC</b> .....  | 122 |
| Raschiatori <b>DKB</b> .....  | 122 |
| Raschiatori <b>DWI</b> .....  | 123 |
| Raschiatori <b>WPC</b> .....  | 123 |
| Raschiatori <b>WPB</b> .....  | 124 |

## **Anelli V-Ring**

|                                |     |
|--------------------------------|-----|
| Caratteristiche tecniche ..... | 126 |
| Tabelle dimensionali           |     |
| V-Ring <b>VS</b> .....         | 127 |
| V-Ring <b>VA</b> .....         | 128 |
| V-Ring <b>VL</b> .....         | 129 |

## **Pistoni pneumatici completi di canali di ventilazione**

|                                                                         |     |
|-------------------------------------------------------------------------|-----|
| Tabelle dimensionali                                                    |     |
| Pistoni pneumatici completi con canali di ventilazione <b>PKC</b> ..... | 132 |

## **Scheda dati applicativi** .....

## **PROTEK shaft seals**

|                                 |    |
|---------------------------------|----|
| Technical characteristics ..... | 70 |
| Dimensional tables              |    |
| Kopro R .....                   | 74 |
| Kopro 9R .....                  | 74 |
| Kopro TAFM/TAFE .....           | 75 |
| Kopro TCN .....                 | 75 |
| Kopro DAPU .....                | 75 |
| Kopro TCA .....                 | 75 |
| Kopro TC7-TB7 / TC9-TB9 .....   | 76 |
| Skudo QA .....                  | 78 |
| Skudo QLF .....                 | 78 |
| Skudo UA .....                  | 78 |

## **Special execution shaft seals**

|                                     |    |
|-------------------------------------|----|
| Technical characteristics .....     | 80 |
| Dimensional tables                  |    |
| Special execution shaft seals ..... | 81 |

## **Wipers seals**

|                            |     |
|----------------------------|-----|
| 1 Use .....                | 120 |
| 2 Working conditions ..... | 120 |
| Dimensional tables         |     |
| <b>DSI</b> wipers .....    | 121 |
| <b>GA</b> wipers .....     | 121 |
| <b>GC</b> wipers .....     | 122 |
| <b>DKC</b> wipers .....    | 122 |
| <b>DKB</b> wipers .....    | 122 |
| <b>DWI</b> wipers .....    | 123 |
| <b>WPC</b> wipers .....    | 123 |
| <b>WPB</b> wipers .....    | 124 |

## **V-Ring seals**

|                                 |     |
|---------------------------------|-----|
| Technical characteristics ..... | 126 |
| Dimensional tables              |     |
| <b>VS</b> V-Ring .....          | 127 |
| <b>VA</b> V-Ring .....          | 128 |
| <b>VL</b> V-Ring .....          | 129 |

## **Complete pneumatic piston with ventilation grooves**

|                                                                     |     |
|---------------------------------------------------------------------|-----|
| Dimensional tables                                                  |     |
| <b>PKC</b> complete pneumatic piston with ventilation grooves ..... | 132 |

## **Seal design consideration** .....



**Confezione di vendita anelli di tenuta mescola NBR/FPM / Sale packages compound NBR/FPM shaft seals**

|                               |       |             |                          |
|-------------------------------|-------|-------------|--------------------------|
| Fino a Ø esterno / Up to O.D. |       | 34 mm       | 100 pz.                  |
| da / from                     | 35 a  | 100 mm      | 20 pz.                   |
| da / from                     | 101 a | 199 mm      | 10 pz.                   |
| da / from                     | 200   | in poi / on | a richiesta / on request |

Le conoscenze tecniche e le esperienze effettive costituiscono la base del contenuto di questo catalogo.

I risultati che si possono ottenere dipendono comunque dall'impiego appropriato dei ns. prodotti.

Decliniamo pertanto ogni responsabilità per l'utilizzo errato degli stessi.

*Contents of this catalogue is based on our technical knowledge and applications experiences.*

*Results depend on the right use of our products.*

*We do not assume responsibility in case of products used in the wrong way.*

**Anelli di tenuta**  
***Shaft seals***





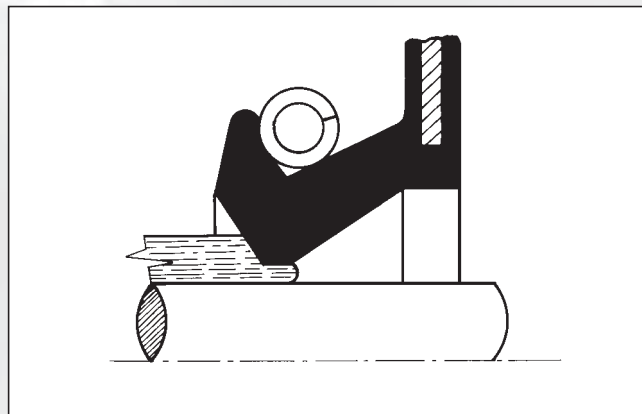
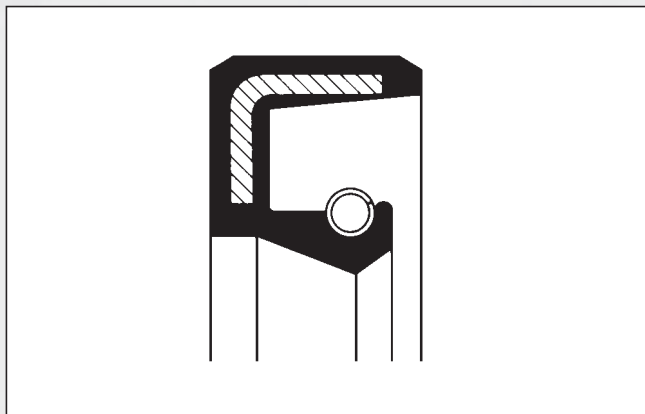
# 1. Caratteristiche dell'anello di tenuta

## Characteristics of rotary shaft seals

TTO

Gli anelli di tenuta per alberi rotanti sono costituiti da un'anima metallica, da un labbro di tenuta in elastomero sintetico, e da una molla a spirale in acciaio.

Shaft seals consist of a metal case, a sealing element and a garter spring.



### 1.1. FUNZIONAMENTO DELL'ANELLO DI TENUTA

La tenuta dinamica è realizzata per effetto dell'interferenza tra il labbro e l'albero, il labbro esercita sull'albero una forza denominata "carico radiale". Dopo un breve periodo di rodaggio lo spigolo di tenuta si trasforma in una superficie piana larga da 0,4 a 1,3 mm.

Sotto la superficie piana del labbro si forma una sottilissima pellicola di fluido di spessore compreso tra 1 e 3  $\mu\text{m}$ , questa pellicola è mantenuta per capillarità tra il labbro di tenuta e l'albero verso l'esterno (lato atmosfera) da un menisco, la cui tensione superficiale evita la fuoriuscita del fluido.

Con l'aumento dello spessore della pellicola, aumenta pure la forza totale dovuta alla pressione dal fluido da tenere fino al raggiungimento di valori di forze superiori alle tensioni superficiali e quindi alla rottura del menisco e di conseguenza alle perdite di olio.

### 1.1. WORKING PRINCIPLE OF ROTARY SHAFT SEALS

The sealing effect is achieved by interference between lip and shaft, the spring allows the lip to maintain a radial load.

After a short period the sealing edge is transformed in a defined contact band which sizes are between 0,4 and 1,3 mm.

An oil film forms under the lip contact area, its thickness is between 1 and 3  $\mu\text{m}$ , the meniscus is maintained through capillary action between shaft and the atmosphere in order to avoid leakage.

An increase of the film thickness means increasing pressure of the fluid to be sealed reaching bigger values which determine the meniscus break and therefore leakages.

### 2.1 Classificazione per labbro di tenuta - Classification by sealing element

| Classificazione<br>Classification                                                                 | Caratteristiche                                                                                                                                                                                                                                                                                                                                                                                                          | Characteristics                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>S</b>     | <p>Anello di tenuta standard con un labbro di tenuta energizzato a molla. Viene utilizzato per trattenere il fluido e separarlo dall'ambiente esterno.</p> <p>Condizioni d'impiego: Velocità periferica: 12 m/sec<br/>Temperatura: 120°C<br/>Pressione: 0.3 Kg/cm<sup>2</sup></p> <p><b>Rif. DIN 3760 tipo "A"</b></p>                                                                                                   | <p>A standard oil seal with a sealing lip design. It is used to seal against internal media.</p> <p>Working conditions: Peripheral Speed: 12 m/sec<br/>Temperature: 120°C<br/>Pressure: 0.3 Kg/cm<sup>2</sup></p> <p><b>Rif. DIN 3760 tipo "A"</b></p>                                                                                                                      |
| <br><b>T</b>     | <p>Anello di tenuta standard in esecuzione a doppio labbro. Il labbro principale trattiene il fluido interno, mentre il labbro supplementare fornisce protezione dallo sporco esterno.</p> <p>Condizioni d'impiego: Velocità periferica: 10 m/sec<br/>Temperatura: 120°C<br/>Pressione: 0.3 Kg/cm<sup>2</sup></p> <p><b>Rif. DIN 3760 tipo "AS"</b></p>                                                                  | <p>A double sealing lips design. The main lip seals against internal media, while the auxiliary lip provides protection against dirt.</p> <p>Working conditions: Peripheral Speed: 10 m/sec<br/>Temperature: 120°C<br/>Pressure: 0.3 Kg/cm<sup>2</sup></p> <p><b>Rif. DIN 3760 tipo "AS"</b></p>                                                                            |
| <br><b>V</b>     | <p>Anello senza molla. Il labbro di tenuta elastico fornisce protezione dall'ambiente esterno con basso assorbimento di potenza. È indicato per trattenere grassi, per protezione dallo sporco, per movimenti alternativi e rotatori. Può essere usato in combinazione con altri tipi di tenute.</p> <p>Condizioni d'impiego: Velocità periferica: 8 m/sec<br/>Temperatura: 120°C<br/>Pressione: 0 Kg/cm<sup>2</sup></p> | <p>No spring is loaded. The flexible sealing element is used to seal internal media with low friction. It is suitable for sealing grease, and protecting against dirt. It can also be used along with other types of seals. It acts with medium friction.</p> <p>Working conditions: Peripheral Speed: 8 m/sec<br/>Temperature: 120°C<br/>Pressure: 0 Kg/cm<sup>2</sup></p> |
| <br><b>K</b>     | <p>Anello senza molla in esecuzione a doppio labbro. Il doppio labbro di tenuta elastico fornisce protezione dall'ambiente esterno con limitato assorbimento di potenza. È indicato per trattenere grassi e per protezione dallo sporco.</p> <p>Condizioni d'impiego: Velocità periferica: 5 m/sec<br/>Temperatura: 120°C<br/>Pressione: 0 Kg/cm<sup>2</sup></p>                                                         | <p>No spring is loaded. The flexible sealing element is used to seal against both internal and outer media, and provides protection against dirt. It acts with medium friction.</p> <p>Working conditions: Peripheral Speed: 5 m/sec<br/>Temperature: 120°C<br/>Pressure: 0 Kg/cm<sup>2</sup></p>                                                                           |
| <br><b>D</b>   | <p>Anello di tenuta a doppia molla, questo tipo è idoneo per isolare sia dall'ambiente interno sia dall'ambiente esterno. Viene generalmente usato per separare due fluidi. L'area tra i due labbri di tenuta deve essere prelubrificata a grasso.</p> <p>Condizioni d'impiego: Velocità periferica: 5 m/sec<br/>Temperatura: 120°C<br/>Pressione: 0.3 Kg/cm<sup>2</sup></p>                                             | <p>This type is intended for sealing against both internal and external media. It is usually used to separate two liquids. The area between two lips must be lubricated with grease, etc.</p> <p>Working conditions: Peripheral Speed: 5 m/sec<br/>Temperature: 120°C<br/>Pressure: 0.3 Kg/cm<sup>2</sup></p>                                                               |
| <br><b>TX4</b> | <p>Anello di tenuta in esecuzione a doppio labbro con profilo studiato per moto alternativo e condizioni di alta pressione.</p> <p>Condizioni d'impiego: Velocità periferica: 0.3 m/sec<br/>Temperatura: 120°C<br/>Pressione: 7 Kg/cm<sup>2</sup></p>                                                                                                                                                                    | <p>The design is intended for reciprocating motion, especially for pressurized media.</p> <p>Working conditions: Reciprocating Speed: 0.3 m/sec<br/>Temperature: 120°C<br/>Pressure: 7 Kg/cm<sup>2</sup></p>                                                                                                                                                                |

### 2.2 Classificazione per struttura esterna - Classification by structure

| Struttura<br>Structure                                                                                                                                                                           | Caratteristiche                                                                                                                                                                                                                                                                                       | Characteristics                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>C</b>                                                                                                  | Armatura metallica completamente rivestita in gomma. Può essere usata su ogni misura di albero/ sede. Impedisce che l'armatura metallica arrugginisca e si corroda. Si evitano danneggiamenti alla sede, soprattutto se di alluminio. Buona resistenza dell'anello all'espansione termica della sede. | <i>A rubber covered case can be used on any sizes of shafts. It prevents the metal case from rusting, corrosion, or prevents damage to the housing bore during assembly. Especially in aluminum metal housings; or due to thermal expansion.</i> |
| <br><b>B</b> <br><b>B2</b> | Armatura metallica esterna completamente scoperta: viene usata principalmente su alberi con un diametro inferiore a 150mm e con lavorazione della sede molto precisa.                                                                                                                                 | <i>Seals with a metal case on the periphery: It is mainly used on shafts when the diameters are below 150 mm. and the housing is very accurate.</i>                                                                                              |
| <br><b>A</b> <br><b>A2</b> | Armatura metallica esterna completamente scoperta e rinforzata. Viene usato principalmente su alberi con diametro superiore a 150mm., su alberi piccoli che necessitano maggiore resistenza, o quando vengono richieste mescole speciali.                                                             | <i>Seals with a reinforced metal case. It is mainly used on shafts when the diameters are beyond 150 mm, or small shafts that need extra strength, or when special rubber compounds are required.</i>                                            |



### 3. Tipi di anelli di tenuta TTO Type of TTO shaft seals

TTO

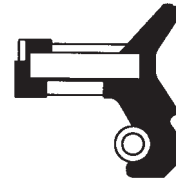
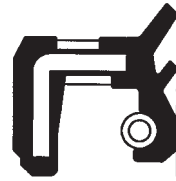
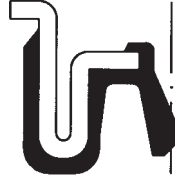
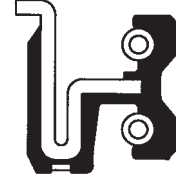
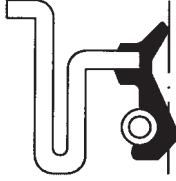
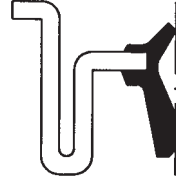
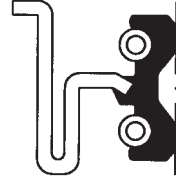
#### 3.1 Tipologie degli anelli di tenuta Common types of TTO shaft seals

|               | <b>S</b><br>Singolo<br><i>Single</i> | <b>T</b><br>Doppio labbro<br><i>Double lip</i> | <b>V</b><br>Labbro singolo<br><i>Single lip (w/o)</i> | <b>K</b><br>Doppio labbro<br><i>Double lip (w/o)</i> | <b>D</b><br>Labbro di tenuta a doppia molla<br><i>Two Spring lips</i> |
|---------------|--------------------------------------|------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------|
| Tipo - Type C |                                      |                                                |                                                       |                                                      |                                                                       |
|               | SC                                   | TC                                             | VC                                                    | KC                                                   | DC                                                                    |
| Tipo - Type B |                                      |                                                |                                                       |                                                      |                                                                       |
|               | SB                                   | TB                                             | VB                                                    | KB                                                   | DB                                                                    |
|               |                                      |                                                |                                                       |                                                      |                                                                       |
|               | SB2                                  | TB2                                            | VB2                                                   | KB2                                                  | DB2                                                                   |
|               |                                      |                                                |                                                       |                                                      |                                                                       |
|               | SBR                                  | TBR                                            | VBR                                                   | KBR                                                  | DBR                                                                   |
| Tipo - Type A |                                      |                                                |                                                       |                                                      |                                                                       |
|               | SA2                                  | TA2                                            | VA2                                                   | KA2                                                  | DA2                                                                   |

### 3. Tipi di anelli di tenuta TTO Type of TTO shaft seals

TTO

#### 3.2 Tipi TTO: 3 / 4 (Moto alternativo) / 5 (Flangiati) TTO type: 3 / 4 (Reciprocation) / 5 (Flanged)

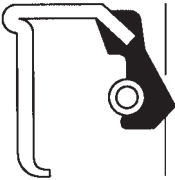
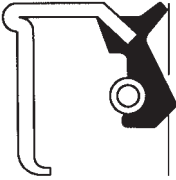
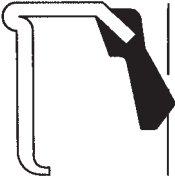
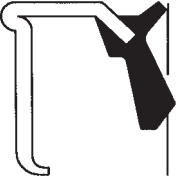
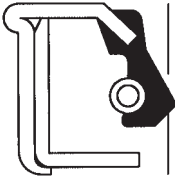
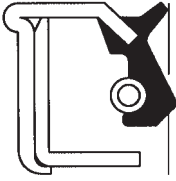
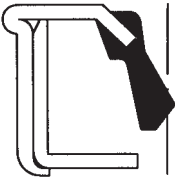
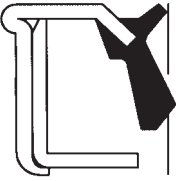
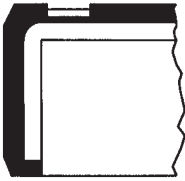
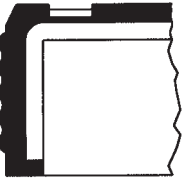
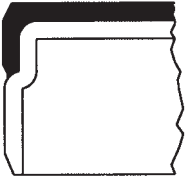
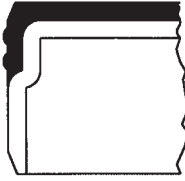
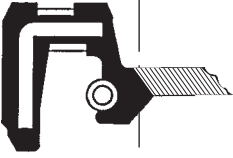
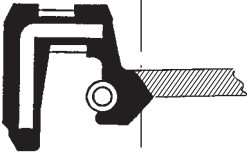
|               | Vari disegni<br>Various designs                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Tipo - Type 3 |    |    |    |    |    |
|               | TC3                                                                                 | TB3                                                                                 | TA3                                                                                 | KC3                                                                                   | KB3                                                                                   |
| Tipo - Type 4 |    |    |    |    |    |
|               | TC4                                                                                 | TB4                                                                                 | TCL                                                                                 | TC4L                                                                                  | TC4P                                                                                  |
|               |   |   |   |   |   |
|               | DC4                                                                                 | DC4Y                                                                                | DC4P                                                                                | TC42 (rotary)                                                                         | TC40 (rotary)                                                                         |
| Tipo - Type 5 |  |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|               | XICY                                                                                |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
| Tipo - Type 5 |  |  |  |  |  |
|               | SC5                                                                                 | TC5                                                                                 | VC5                                                                                 | KC5                                                                                   | DC5                                                                                   |
|               |  |  |  |  |  |
|               | SB5                                                                                 | TB5                                                                                 | VB5                                                                                 | KB5                                                                                   | DB5                                                                                   |



### 3. Tipi di anelli di tenuta TTO Type of TTO shaft seals

TTO

#### 3.3 Tipi TTO: 6 / 7 / Tappi di chiusura TTO type: 6 / 7 / End covers

|                                                 | Vari disegni<br>Various designs                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                      |
|-------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Tipo - Type 6                                   |    |    |    |   |                                                                                      |
|                                                 | SB6                                                                                 | TB6                                                                                 | VB6                                                                                 | KB6                                                                                 |                                                                                      |
|                                                 |    |    |    |   |                                                                                      |
|                                                 | SA6                                                                                 | TA6                                                                                 | VA6                                                                                 | KA6                                                                                 |                                                                                      |
| Tappi di chiusura<br>End covers                 |   |   |   |  |  |
|                                                 | EC                                                                                  | ECW                                                                                 | ECY                                                                                 | VK                                                                                  | VKW                                                                                  |
| Anelli con rigature<br>Seal with helical design |  |  |  |                                                                                     |                                                                                      |
|                                                 | HSCL                                                                                | HSCR                                                                                | SCI                                                                                 |                                                                                     |                                                                                      |

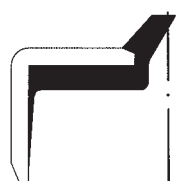
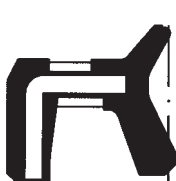
### 3. Tipi di anelli di tenuta TTO

#### Type of TTO shaft seals

TTO

#### 3.4 Tipi TTO: W (Superficie esterna ondulata) B C / Anelli raschiatori

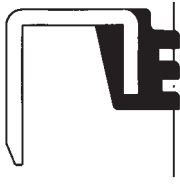
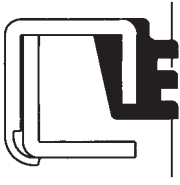
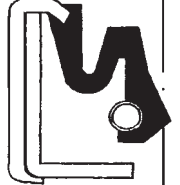
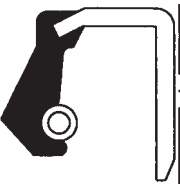
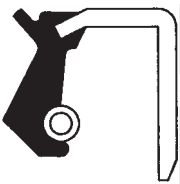
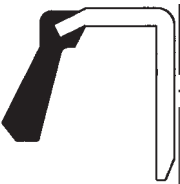
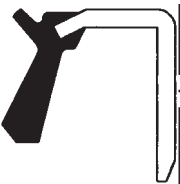
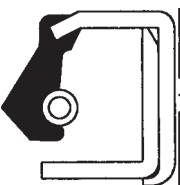
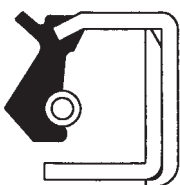
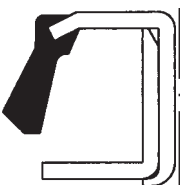
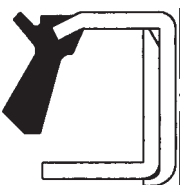
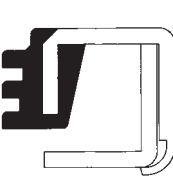
#### TTO type: W (Corrugated outer diameter) B C / Wiper seals

|                                              | Vari disegni<br>Various designs                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|----------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Tipo - Type W                                |    |    |    |    |                                                                                       |
|                                              | SCW                                                                                 | TCW                                                                                 | VCW                                                                                 | KCW                                                                                   |                                                                                       |
| Esterno gomma/metallo<br>O.D. Metal / Rubber |    |    |    |    |                                                                                       |
|                                              | SBC                                                                                 | TBC                                                                                 | VBC                                                                                 | KBC                                                                                   |                                                                                       |
|                                              |   |   |   |   |                                                                                       |
|                                              | SBCW                                                                                | TBCW                                                                                | VBCW                                                                                | KBCW                                                                                  |                                                                                       |
| Anelli raschiatori<br>Wiper seals            |  |  |  |  |  |
|                                              | WPB                                                                                 | DKB                                                                                 | DWI                                                                                 | GA                                                                                    | DKH                                                                                   |
|                                              |  |  |  |  |  |
|                                              | WPC                                                                                 | DKC                                                                                 | LBH                                                                                 | GC                                                                                    | DSI                                                                                   |

### 3. Tipi di anelli di tenuta TTO Type of TTO shaft seals

TTO

#### 3.5 Tipi TTO: E / L3 / O (Tenuta esterna) TTO type: E / L3 / O (Outward design)

|                                                  | Vari disegni<br>Various designs                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|--------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Tipo - Type E                                    |    |    |    |    |    |
|                                                  | SCE                                                                                 | TCE                                                                                 | SBE                                                                                 | TBE                                                                                  | DAE                                                                                   |
| Tipo - Type L3                                   |    |    |    |    |                                                                                       |
|                                                  | KCL3                                                                                | KBL3                                                                                | KAL3                                                                                | SAE2                                                                                 |                                                                                       |
| Tipo - Type O<br>Tenuta esterna - Outward design |   |   |   |   |   |
|                                                  | OSC                                                                                 | OTC                                                                                 | OVC                                                                                 | OKC                                                                                  | OKCL3                                                                                 |
|                                                  |  |  |  |  |  |
|                                                  | OSB                                                                                 | OTB                                                                                 | OVB                                                                                 | OKB                                                                                  | OKBL3                                                                                 |
|                                                  |  |  |  |  |  |
|                                                  | OSA                                                                                 | OTA                                                                                 | OVA                                                                                 | OKA                                                                                  | OKAL3                                                                                 |



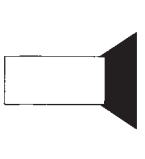
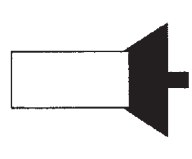
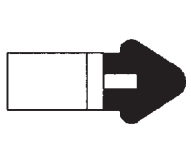
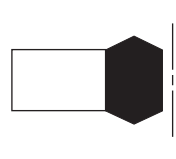
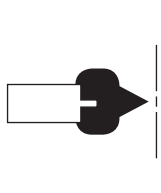
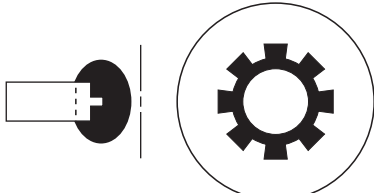
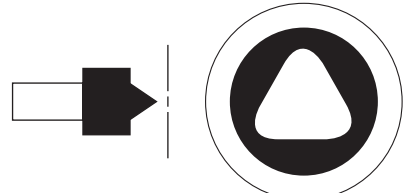
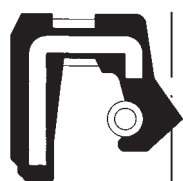
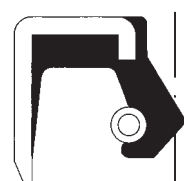
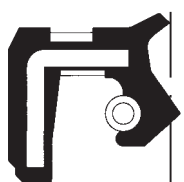
### 3. Tipi di anelli di tenuta TTO

#### Type of TTO shaft seals

TTO

#### 3.6 Tipi TTO: Tenute per valvole / Bonded Seals / V-ring / Alta pressione

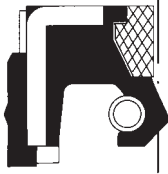
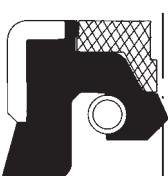
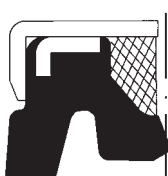
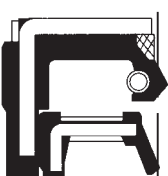
##### TTO type: Valve seals / Bonded seals / V-Ring / High pressure

|                                   | Vari disegni<br>Various designs                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-----------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Tenute per valvole<br>Valve seals |    |    |     |    |    |
|                                   | VSB1                                                                                | VSB2                                                                                | VSB3                                                                                 | VSB4                                                                                  | VSB5                                                                                  |
| Bonded seals<br>Bonded seals      |    |    |     |    |    |
|                                   | BO-1                                                                                | BO-1Y                                                                               | BO-2                                                                                 | BO-3                                                                                  | BO-6                                                                                  |
|                                   |   |  |  |                                                                                       |                                                                                       |
|                                   | BO-4                                                                                | BO-5                                                                                |                                                                                      | BO-7                                                                                  |                                                                                       |
| V-Ring<br>V-Ring                  |  |  |   |                                                                                       |                                                                                       |
|                                   | VA                                                                                  | VS                                                                                  | VL                                                                                   |                                                                                       |                                                                                       |
| Alta pressione<br>High pressure   |  |  |   |  |  |
|                                   | SCV                                                                                 | SCP                                                                                 | SCP2                                                                                 | SCHP                                                                                  | SBP2                                                                                  |
|                                   |  |  |   |  |  |
|                                   | TCV                                                                                 | TCP                                                                                 | TCP2                                                                                 | TCHP                                                                                  | TBP2                                                                                  |

### 3. Tipi di anelli di tenuta TTO Type of TTO shaft seals

TTO

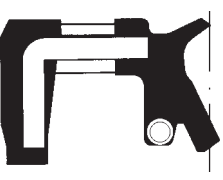
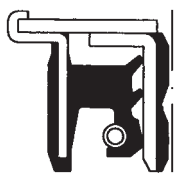
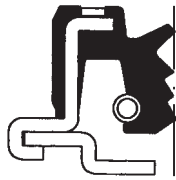
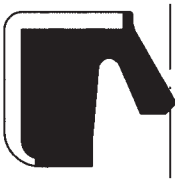
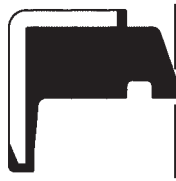
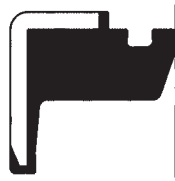
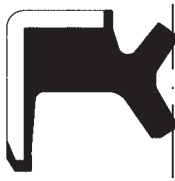
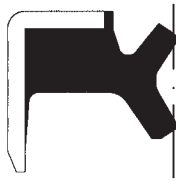
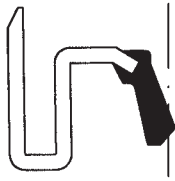
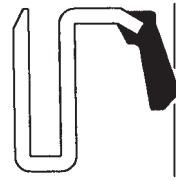
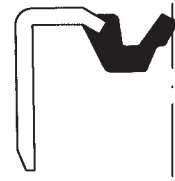
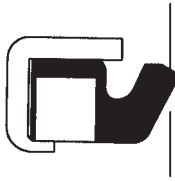
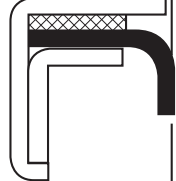
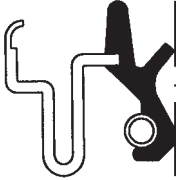
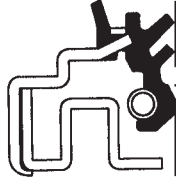
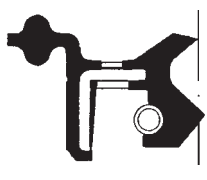
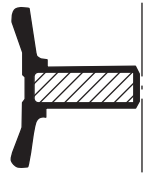
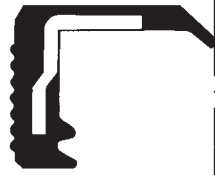
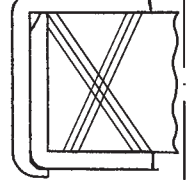
#### 3.7 Tipi TTO: Tenute per idroguide TTO type: Power steering seals

| Vari disegni<br>Various designs              |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|----------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Tenute per idroguide<br>Power steering seals |    |    |    |                                                                                     |
|                                              | SCT                                                                                 | SCT                                                                                 | SCT                                                                                 |                                                                                     |
|                                              |    |    |    |   |
|                                              | SCT                                                                                 | SCT                                                                                 | SC5T                                                                                | SC5T                                                                                |
|                                              |   |   |   |  |
|                                              | SCVT                                                                                | SCVT                                                                                | VCVT                                                                                | VCHPT                                                                               |
|                                              |  |  |  |                                                                                     |
|                                              | SBYT                                                                                | UPVT                                                                                | UPT                                                                                 |                                                                                     |
|                                              |  |                                                                                     |                                                                                     |                                                                                     |
|                                              | TCAVT                                                                               |                                                                                     |                                                                                     |                                                                                     |

### 3. Tipi di anelli di tenuta TTO Type of TTO shaft seals

TTO

#### 3.8 Tipi TTO: Tenute per applicazioni nel settore agricolo - Esecuzioni speciali (S, X, Y indica speciale) TTO type: Seals for applications in agriculture sector - Special execution (S, X, Y means special)

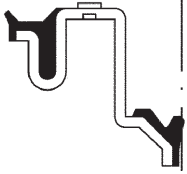
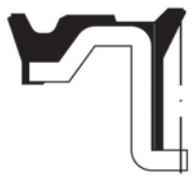
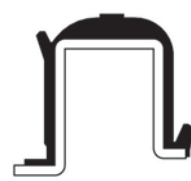
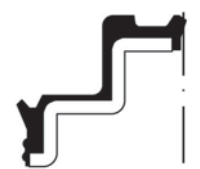
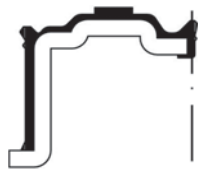
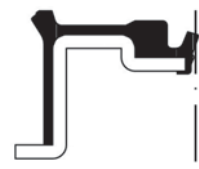
| Vari disegni<br>Various designs          |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Esecuzioni speciali<br>Special execution |    |    |    |    |    |
|                                          | TCJ                                                                                 | HTCK                                                                                | TCSF                                                                                | TCFA                                                                                  | TCFY                                                                                  |
|                                          |    |    |    |    |    |
|                                          | VBRY                                                                                | VBRX                                                                                | VBRX2                                                                               | KBRY                                                                                  | KBY                                                                                   |
|                                          |   |   |   |   |   |
|                                          | VB18                                                                                | VB21                                                                                | VB2Y                                                                                | VAY                                                                                   | VAT                                                                                   |
|                                          |  |  |  |  |  |
|                                          | TB14                                                                                | TB31                                                                                | TB95                                                                                | TA5Y                                                                                  | TA9Y                                                                                  |
|                                          |  |  |  |  |  |
|                                          | TCLWY                                                                               | PKC                                                                                 | SGA                                                                                 | SLY                                                                                   | VAFE                                                                                  |



### 3. Tipi di anelli di tenuta TTO Type of TTO shaft seals

TTO

#### 3.9 Tipi TTO: Anelli di tenuta per automotive / PS TTO type: Automatic transmission seals / PS

| Vari disegni<br>Various designs |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Tipo PS<br>Type PS              |    |    |    |    |    |
|                                 | PS1                                                                                 | PS2                                                                                 | PS3                                                                                 | PS4                                                                                  | PS5                                                                                   |
|                                 |    |    |    |    |    |
|                                 | PS6                                                                                 | PS7                                                                                 | PS8                                                                                 | PS9                                                                                  | PS10                                                                                  |
|                                 |   |   |   |   |   |
|                                 | PS11                                                                                | PS12                                                                                | PS13                                                                                | PS14                                                                                 | PS15                                                                                  |
|                                 |  |  |  |  |  |
|                                 | PS16                                                                                | PS17                                                                                | PS18                                                                                | PS19                                                                                 | PS20                                                                                  |
|                                 |  |  |  |  |  |
|                                 | PS21                                                                                | PS22                                                                                | PS23                                                                                | PS24                                                                                 | PS25                                                                                  |

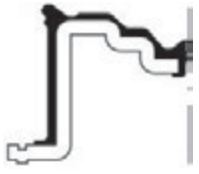
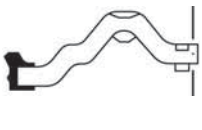
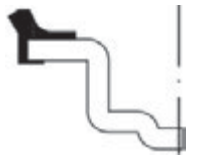
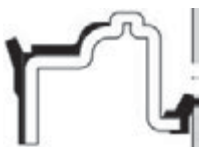
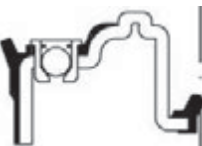
### 3. Tipi di anelli di tenuta TTO

#### Type of TTO shaft seals

TTO

#### 3.10 Tipi TTO: Anelli di tenuta per automotive / PS, PSO, PSX, PSA

##### TTO type: Automatic transmission seals / PS, PSO, PSX, PSA

|                      | Vari disegni<br>Various designs                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |
|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Tipo PS<br>Type PS   |    |    |    |    |    |
|                      | PS26                                                                                | PS27                                                                                | PS28                                                                                | PS29                                                                                  | PS30                                                                                  |
| Tipo PSO<br>Type PSO |    |    |    |    |    |
|                      | PSO1                                                                                | PSO2                                                                                | PSO3                                                                                | PSO4                                                                                  | PSO5                                                                                  |
|                      |   |   |   |   |                                                                                       |
|                      | PSO6                                                                                | PSO7                                                                                | PSO8                                                                                | PSO9                                                                                  |                                                                                       |
| Tipo PSX<br>Type PSX |  |  |  |  |  |
|                      | PSX1                                                                                | PSX2                                                                                | PSX3                                                                                | PSX4                                                                                  | PSX5                                                                                  |
| Tipo PSA<br>Type PSA |  |  |  |  |  |
|                      | PSA1                                                                                | PSA2                                                                                | PSA3                                                                                | PSA4                                                                                  | PSA5                                                                                  |

## 4. Caratteristiche tecniche Technical characteristics

TTO

| Tipo<br>Type     | Caratteristiche                                                                                                                                         | Characteristics                                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>SC</b>        | Anello di tenuta di impiego universale, parte metallica esterna ricoperta in gomma. (Rif. DIN 3760 tipo "A")                                            | Shaft seal with rubber covered O.D.<br>(Ref. DIN 3760 "A" type)                                                             |
| <b>TC</b>        | Anello di tenuta come per il tipo <b>"SC"</b> ma con labbro parapolvere. (Rif. DIN 3760 tipo "AS")                                                      | Shaft seal as above but an auxiliary lip provides protection against dirt.<br>(Ref. DIN 3760 "AS" type)                     |
| <b>SB2</b>       | Anello di tenuta con parte metallica a vista da utilizzare in sedi con lavorazioni precise.<br>Minor costo in caso di impiego di mescola pregiata.      | Shaft seal, metal O.D. to be fitted on housing bore with tight tolerances.<br>Cost advantage if special compounds are used. |
| <b>SB</b>        | Anello di tenuta come per il tipo <b>"SB2"</b> ma con copertura in gomma sulla parte interna lato fluido.                                               | Shaft seal as <b>"SB2"</b> type but with fluid side rubber covered.                                                         |
| <b>SBR</b>       | Anello di tenuta come per il tipo <b>"SB"</b> in più copertura anche dello spessore metallico per migliorare efficienza di tenuta sul diametro esterno. | Shaft seal as <b>"SB"</b> type but with a better sealing efficiency on O.D.                                                 |
| <b>TB2</b>       | Anello di tenuta come per il tipo <b>"SB2"</b> ma con labbro parapolvere.                                                                               | Shaft seal as <b>"SB2"</b> type but an auxiliary lip provides protection against dirt.                                      |
| <b>TB</b>        | Anello di tenuta come per il tipo <b>"SB"</b> ma con labbro parapolvere.                                                                                | Shaft seal as <b>"SB"</b> type but an auxiliary lip provides protection against dirt.                                       |
| <b>TBR</b>       | Anello di tenuta come per il tipo <b>"SBR"</b> ma con labbro parapolvere.                                                                               | Shaft seal as <b>"SBR"</b> type but an auxiliary lip provides protection against dirt.                                      |
| <b>SA2</b>       | Anello di tenuta con doppia armatura metallica. Usato per applicazioni in condizioni difficili.                                                         | Shaft seal with double metal case used for more severe applications.                                                        |
| <b>TA2</b>       | Anello di tenuta come per il tipo <b>"SA2"</b> ma con labbro parapolvere.                                                                               | Shaft seal as <b>"SA2"</b> type but an auxiliary lip provides protection against dirt.                                      |
| <b>SBC</b>       | Anello di tenuta simile al tipo <b>"SB"</b> con diametro esterno parzialmente ricoperto in gomma.                                                       | Shaft seal similar to <b>"SB"</b> type with O.D. partially covered with rubber.                                             |
| <b>TBC</b>       | Anello di tenuta simile al tipo <b>"TB"</b> con diametro esterno parzialmente ricoperto in gomma.                                                       | Shaft seal similar to <b>"TB"</b> type with O.D. partially covered with rubber.                                             |
| <b>SBCW</b>      | Anello di tenuta come per il tipo <b>"SBC"</b> con gomma ondulata.                                                                                      | Shaft seal as <b>"SBC"</b> type with waves on rubber.                                                                       |
| <b>TBCW</b>      | Anello di tenuta come il tipo <b>"TBC"</b> con gomma ondulata.                                                                                          | Shaft seal as <b>"TBC"</b> type with waves on rubber.                                                                       |
| <b>DC</b>        | Anello di tenuta a 2 labbri e 2 molle.                                                                                                                  | Shaft seal 2 lips 2 springs.                                                                                                |
| <b>SCV-TCV</b>   | Anello di tenuta per alta pressione fino a 3 BAR.                                                                                                       | Shaft seal for high pressure up to 3 BAR.                                                                                   |
| <b>SCP-TCP</b>   | Anello di tenuta per alta pressione fino a 10 BAR.                                                                                                      | Shaft seal for high pressure up to 10 BAR.                                                                                  |
| <b>SCHP-TCHP</b> | Anello di tenuta per alta pressione oltre 10 BAR.                                                                                                       | Shaft seal for high pressure more than 10 BAR.                                                                              |



## 4. Caratteristiche tecniche

### Technical characteristics

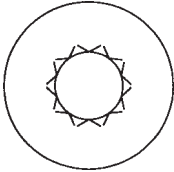
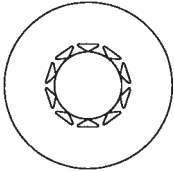
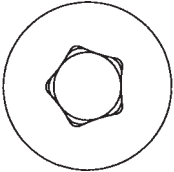
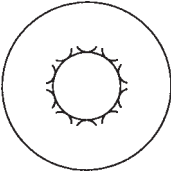
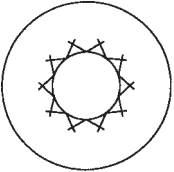
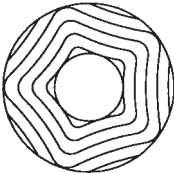
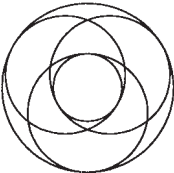
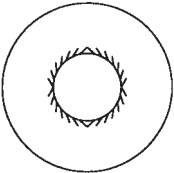
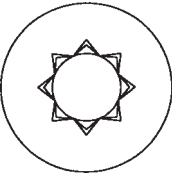
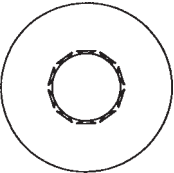
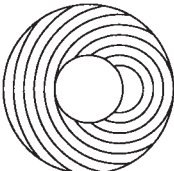
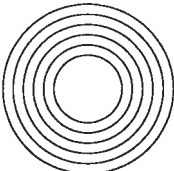
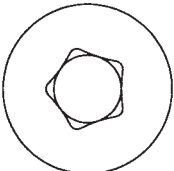
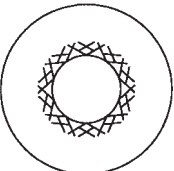
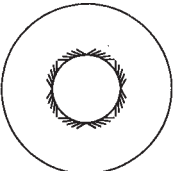
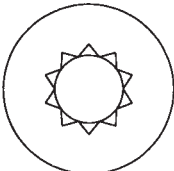
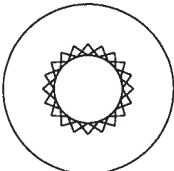
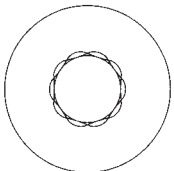
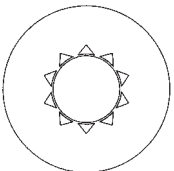
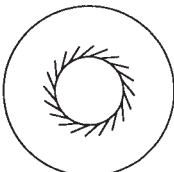
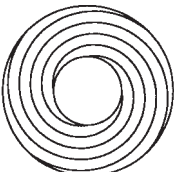
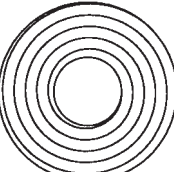
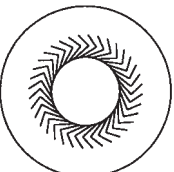
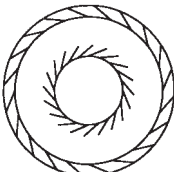
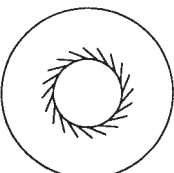
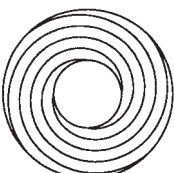
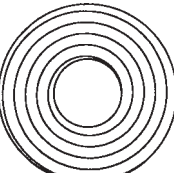
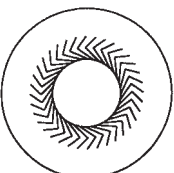


TTO

| Tipo<br>Type     | Caratteristiche                                                                                  | Characteristics                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>HSCL-HTCL</b> | Anello di tenuta con rigature in rilievo per rotazione albero sinistro.                          | <i>Shaft seal with helical design for left twist.</i>                                                    |
| <b>HSCR-HTCR</b> | Anello di tenuta con rigature in rilievo per rotazione albero destro.                            | <i>Shaft seal with helical design for right twist.</i>                                                   |
| <b>SCI-TCI</b>   | Anello di tenuta con rigature in rilievo per albero rotazione bidirezionale.                     | <i>Shaft seal with helical design for bi-directional design.</i>                                         |
| <b>TAFM</b>      | Anello di tenuta combinato in gomma / poliuretano per impieghi gravosi.                          | <i>Shaft seal combined rubber / poliurethane for hard working conditions.</i>                            |
| <b>DAPU</b>      | Anello di tenuta composito gomma / poliuretano a doppia tenuta per impieghi gravosi.             | <i>Shaft seal combined rubber / poliurethane double lips for hard working conditions.</i>                |
| <b>SCJ-TCJ</b>   | Anello di tenuta con riporto di PTFE sul labbro, per alte velocità e basso attrito.              | <i>Shaft seal with additional PTFE on lip for high speed-low friction.</i>                               |
| <b>SBE-TCE</b>   | Anello di tenuta con metallo scoperto e labbro speciale per compensare eccentricità dell'albero. | <i>Shaft seal with metal O.D. special lip to compensate shaft eccentricity.</i>                          |
| <b>DAE</b>       | Anello C.S. con doppio labbro, due molle e doppia armatura metallica.                            | <i>Shaft seal as above with double lips, two springs and double metal case.</i>                          |
| <b>SA2E</b>      | Anello C.S. con labbro semplice e doppia armatura metallica.                                     | <i>Shaft seal as above with single lip and double metal case.</i>                                        |
| <b>TCLWY</b>     | Anello di tenuta per impiego lavatrici.                                                          | <i>Shaft seal for washing machine.</i>                                                                   |
| <b>DC4</b>       | Anello di tenuta per forcelle a due labbri e due molle.                                          | <i>Shaft seal as above two lips two springs.</i>                                                         |
| <b>TC4</b>       | Anello di tenuta per forcella a labbro speciale con parapolvere.                                 | <i>Shaft seal for forks special lip and dust lip.</i>                                                    |
| <b>XICY</b>      | Anello di tenuta per forcelle con funzione di parapolvere.                                       | <i>Shaft seal for forks for dust and mud protection.</i>                                                 |
| <b>TC4P</b>      | Anello di tenuta per ammortizzatori a labbro speciale con parapolvere.                           | <i>Shaft seal for shock absorber special lip with dust lip.</i>                                          |
| <b>DC4P</b>      | Anello di tenuta per ammortizzatori due labbra e due molle.                                      | <i>Shaft seal as above with two lips two springs.</i>                                                    |
| <b>QA</b>        | Anello di tenuta speciale con lubrificante a grasso interno per impieghi agricoli.               | <i>Special shaft seal with grease inside for agricultural application.</i>                               |
| <b>QLF</b>       | Anello di tenuta C.S. con bussola ricoperta in gomma.                                            | <i>Shaft seal as above with O.D. rubber covered.</i>                                                     |
| <b>UA16</b>      | Anello di tenuta per assali in condizioni estremamente severe in presenza di fango-sporcizia.    | <i>Shaft seal for axle application suitable for extreme hard conditions to protect against dirt mud.</i> |

## 5. Disegno elicoidale Helix design

TTO

| Disegno elicoidale<br>Helix design |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Bidirezionale<br>Bi-directional    |    |    |    |    |    |
|                                    | H0                                                                                  | H1                                                                                  | H2                                                                                  | H3                                                                                   | H4                                                                                    |
|                                    |    |    |    |    |    |
|                                    | H5                                                                                  | H6                                                                                  | H7                                                                                  | H8                                                                                   | H9                                                                                    |
|                                    |   |   |   |   |   |
|                                    | H10                                                                                 | H11                                                                                 | H12                                                                                 | H13                                                                                  | H14                                                                                   |
|                                    |  |  |  |  |                                                                                       |
|                                    | H15                                                                                 | H16                                                                                 | H17                                                                                 | H18                                                                                  |                                                                                       |
| Antiorario<br>Counter clock wise   |  |  |  |  |  |
|                                    | L                                                                                   | L1                                                                                  | L2                                                                                  | L3                                                                                   | L4                                                                                    |
| Orario<br>Clock wise               |  |  |  |  |  |
|                                    | R                                                                                   | R1                                                                                  | R2                                                                                  | R3                                                                                   | R4                                                                                    |

## 6. Materiale degli anelli di tenuta Shaft seals materials

TTO

| QUALITÀ<br>Iso/Ns. Rif.                                                                                          | POLIMERO                                 | TEMP. °C | CARATTERISTICHE                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NBR/NBR                                                                                                          | BUTADIENE<br>ACRYLONITRILE               | -40 +120 | <ul style="list-style-type: none"> <li>Buona resistenza agli oli minerali ed ai grassi privi di additivi, clorurati e aromatici.</li> <li>Modesta resistenza agli agenti chimici, alla luce e all'ossidazione.</li> <li>Durezza 70 ± 5 Shore A.</li> </ul>                                          |
| HNBR/HNBR                                                                                                        | ACRILONITRIL-<br>BUTADIENE<br>IDROGENATO | -40 +150 | <ul style="list-style-type: none"> <li>Elevata rigidità meccanica.</li> <li>Resistenza all'abrasione, all'ossidazione ed alla temperatura superiori all' NBR.</li> <li>Resistenza ai fluidi come per NBR.</li> <li>Durezza 75 ± 5 Shore A.</li> </ul>                                               |
| FPM/VI                                                                                                           | POLIMERO<br>FLUORURATO                   | -25 +200 | <ul style="list-style-type: none"> <li>Eccellente resistenza alle alte temperature, agli oli e grassi anche con additivi, solventi, idrocarburi della serie aromatica e alifatica.</li> <li>Durezza 75 ± 5 Shore A.</li> </ul>                                                                      |
| VQM/SI                                                                                                           | SILICONE                                 | -50 +180 | <ul style="list-style-type: none"> <li>Eccellente resistenza alle alte e basse temperature.</li> <li>Ottima elasticità e basso coefficiente di attrito.</li> <li>Eccellente resistenza a ozono ed all'ossidazione.</li> <li>Medie proprietà meccaniche.</li> <li>Durezza 80 ± 5 Shore A.</li> </ul> |
| ACM/PA                                                                                                           | POLIACRILICO                             | -20 +150 | <ul style="list-style-type: none"> <li>Idoneo alle alte temperature ed alla tenuta di oli e grassi additivati.</li> <li>Scarsa resistenza all'acqua ed alle soluzioni acquose.</li> <li>Non adatto alle basse temperature.</li> <li>Durezza 75 ± 5 Shore A.</li> </ul>                              |
| <b>ANELLO METALLICO DI SOSTEGNO</b>                                                                              |                                          |          |                                                                                                                                                                                                                                                                                                     |
| Esecuzioni normali: acciaio DIN 1624<br>Esecuzioni speciali: acciaio inossidabile                                |                                          |          |                                                                                                                                                                                                                                                                                                     |
| <b>MOLLA ELICOIDALE</b>                                                                                          |                                          |          |                                                                                                                                                                                                                                                                                                     |
| Esecuzioni normali: acciaio per molle SAE 1050-1095<br>Esecuzioni speciali: acciaio inossidabile SUS 30302-30304 |                                          |          |                                                                                                                                                                                                                                                                                                     |

| QUALITY<br>Iso/Our Ref.                                                                      | POLIMER                           | TEMP. °C | CHARACTERISTICS                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------|-----------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NBR/NBR                                                                                      | BUTADIENE<br>ACRYLONITRILE        | -40 +120 | <ul style="list-style-type: none"> <li>Good resistance to mineral oils and greases without additives, chlorinated and aromatics.</li> <li>Poor chemical resistance to ageing, weathering and ozone.</li> <li>Hardness 70 ± 5 Shore A.</li> </ul>                                                |
| HNBR/HNBR                                                                                    | Hydrogenated<br>Nitrile-Butadiene | -40 +150 | <ul style="list-style-type: none"> <li>High mechanical rigidity</li> <li>Resistance to oxidation, wear and temperature higher than NBR</li> <li>Same fluid resistance as NBR</li> <li>Hardness 75 ± 5 Shore A.</li> </ul>                                                                       |
| FPM/VI                                                                                       | FLUORINATED<br>RUBBER             | -25 +200 | <ul style="list-style-type: none"> <li>Excellent resistance to high temperature, to oils and greases, aromatic and chlorinated hydrocarbons.</li> <li>Hardness 75 ± 5 Shore A.</li> </ul>                                                                                                       |
| VQM/SI                                                                                       | SILICONE                          | -50 +180 | <ul style="list-style-type: none"> <li>Excellent resistance to high and low temperatures.</li> <li>Excellent flexibility and low friction.</li> <li>Excellent resistance to ageing, weathering and ozone.</li> <li>Poor tensile and tear strength.</li> <li>Hardness 80 ± 5 Shore A.</li> </ul> |
| ACM/PA                                                                                       | POLYACRYLATE                      | -20 +150 | <ul style="list-style-type: none"> <li>Suitable to high temperatures and to oils and greases with additives.</li> <li>Poor resistance to water.</li> <li>Poor resistance to low temperatures.</li> <li>Hardness 75 ± 5 Shore A.</li> </ul>                                                      |
| <b>METAL CASE</b>                                                                            |                                   |          |                                                                                                                                                                                                                                                                                                 |
| Standard types: steel DIN 1624<br>Special types: stainless steel                             |                                   |          |                                                                                                                                                                                                                                                                                                 |
| <b>GARTER SPRING</b>                                                                         |                                   |          |                                                                                                                                                                                                                                                                                                 |
| Standard types: spring steel SAE 1050-1095<br>Special types: stainless steel SUS 30302-30304 |                                   |          |                                                                                                                                                                                                                                                                                                 |



## 7. Condizioni di funzionamento Working conditions

TTO

### 7.1. Temperatura

La temperatura d'impiego ha una notevole importanza per la durata dell'anello di tenuta.

Durante il funzionamento oltre alla temperatura del fluido da tenere bisogna considerare il calore sviluppato per attrito fra lo spigolo di tenuta e l'albero, la velocità periferica, il tipo di fluido, il livello del fluido, il tipo di gomma e la forma dell'anello di tenuta. (vedi grafico 1).

### 7.1. Temperature

The working temperature has great importance for the seal life.

Many factors have to be considered such as increased temperature caused by frictional heat, peripheral speed fluid, level type and construction of the seal. (see graph 1).

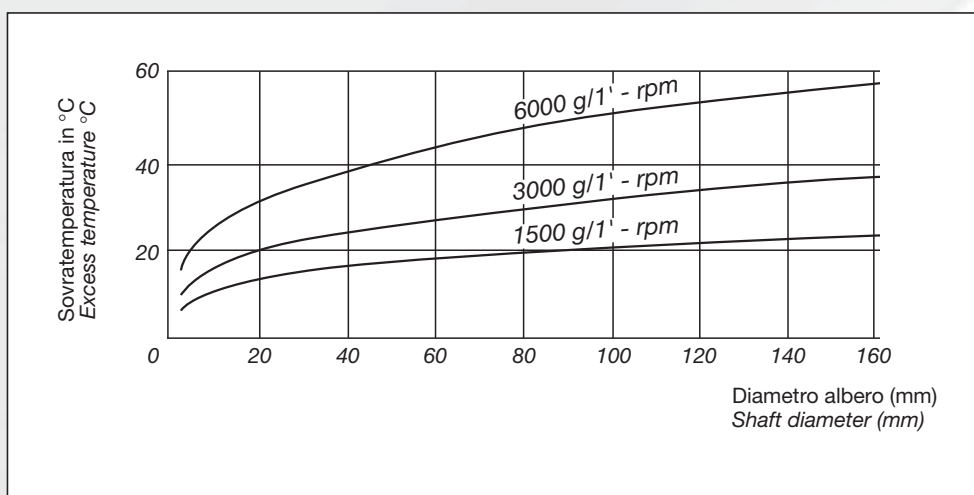


Grafico 1  
Graph 1

Il grafico 2 riporta la sovratemperatura generata da un albero che gira a 3.000 giri/minuto in presenza di grassi e olii SAE. I valori compresi al di sotto delle curve si riferiscono ad alberi totalmente sommersi nel fluido mentre quelli al di sopra delle curve si riferiscono ad alberi parzialmente immersi.

The graph 2 gives the excess temperature values of a shaft running at 3000 rpm with greases and oils. Values of lower curves refer to a shaft fully submerged while the ones of the upper curves refer to a shaft partially immersed.

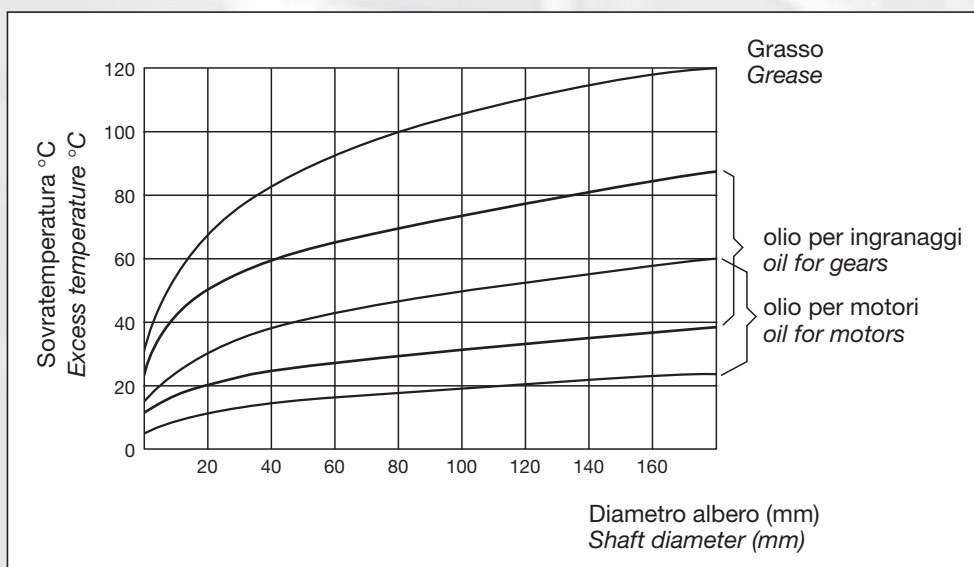


Grafico 2  
Graph 2

### 7.2. Pressione

Gli anelli di tenuta nei profili standard sono utilizzati per pressione del fluido non superiore a 0,3 bar, solo in casi particolari vengono impiegati per pressioni massime pari a 0,5 bar ma con bassa velocità periferica.

A richiesta possono essere forniti anelli di tenuta per pressioni oltre 10 bar.

### 7.2. Pressure

The rotary shaft seals are used with pressure not over 0,3 bar at low peripheral speed.

A value of 0,5 bar can be reached, special shaft seals suitable for pressure more than 10 bar can be supplied.

### 7.3. Velocità

Il grafico 3 rappresenta le varie possibilità di impiego delle diverse mescole secondo velocità e diametro dell'albero. Selezionare il diametro e collegare con l'indice del numero di giri, scegliere il materiale che appare sopra il punto di incrocio.

Es. diametro albero pari a 140 mm con velocità 2000 g/1', occorre la mescola poliaccrilica.

### 7.3. Speed

The graph 3 shows the different materials to be used considering peripheral speed and shaft diameter.

Select shaft diameter and shaft rpm, choose material above the point where they cross.

E.g. shaft diameter 140 mm and 2000 rpm you need polyacrylic rubber.

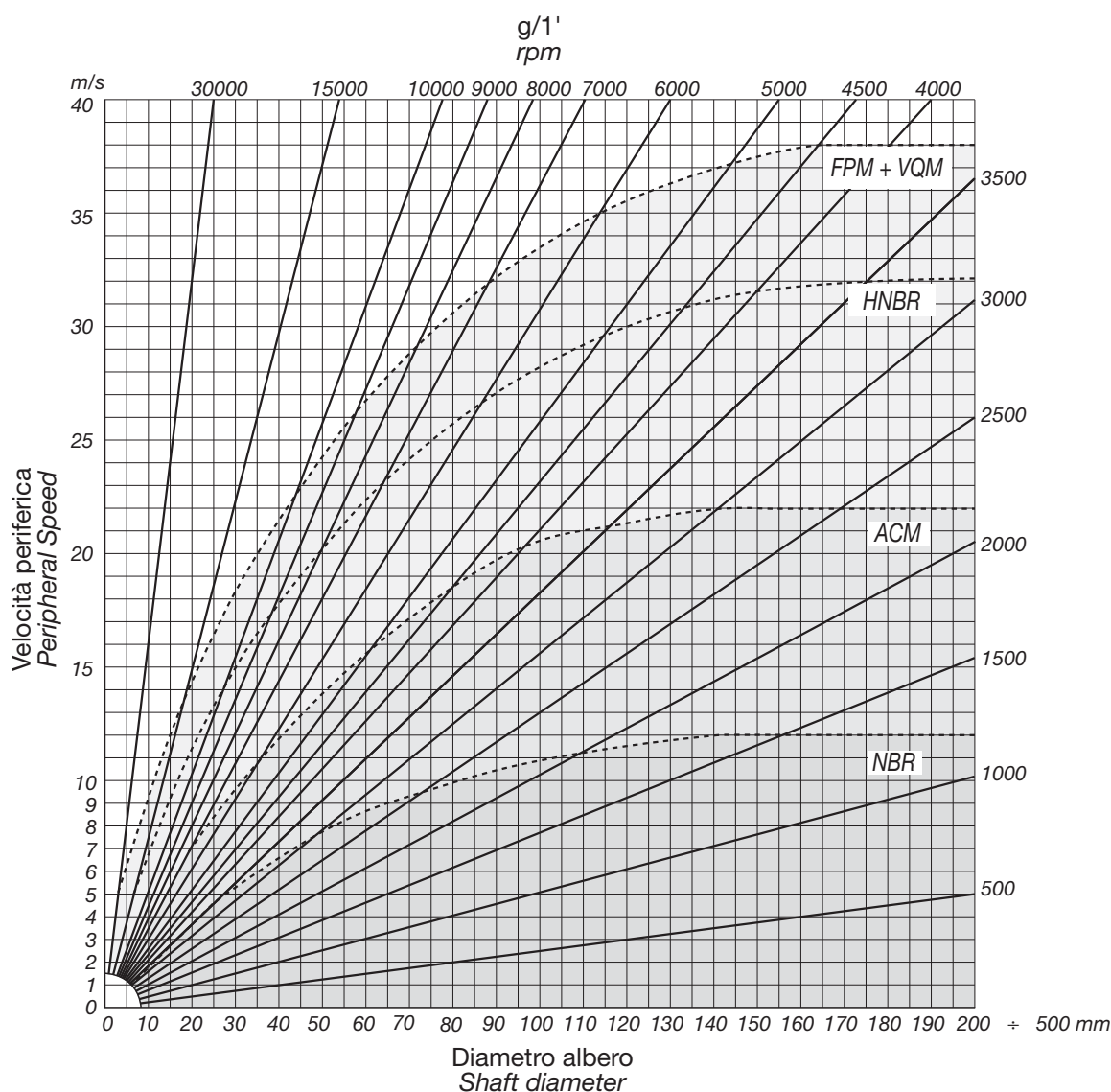


Grafico 3  
Graph 3

## 7. Condizioni di funzionamento Working conditions

TTO

### 7.4. Lubrificazione

Gli anelli di tenuta non possono funzionare a secco. Un'adeguata lubrificazione è indispensabile per il buon funzionamento dell'anello di tenuta.

È consigliabile all'atto del montaggio per ridurre l'attrito iniziale, lubrificare lo spigolo di tenuta con olio o grasso.

Il fluido da tenere ha anche la funzione di smaltire il calore generato dall'attrito dell'anello sull'albero.

Nel caso che il fluido da tenere presenti scarse qualità lubrificanti (acqua, soluzioni acquose) è consigliabile l'impiego di anelli con labbro parapolvere riempiendo di grasso l'incavo tra i due labbri.

Le prime ore di funzionamento servono alla formazione del menisco ed all'assestamento del labbro di tenuta.

Durante questo periodo piccole perdite sono possibili.

Da considerare anche la perdita di potenza causata dall'attrito del labbro che potrebbe essere importante in caso di trasmissione di scarsa potenza (vedi grafico 4).

### 7.4. Lubrication

*The seals cannot run in dry conditions.*

*Adequate lubrication it is indispensable for good functioning of the seal.*

*Before fitting the sealing lip should be lubricated with oil or grease.*

*The fluid to be sealed has also the function of reducing the temperature increase caused by the friction between lip and shaft.*

*Should the fluid have poor lubricating capability (water and aqueous solutions) it is better to fill the space between the two lips with grease.*

*During the first hours of working not only the meniscus will form but also the sealing edge is transformed in a defined contact band.*

*During this time limited leakages are possible.*

*Friction of the lip can cause power loss which could be significant if low power is transmitted (see graph 4).*

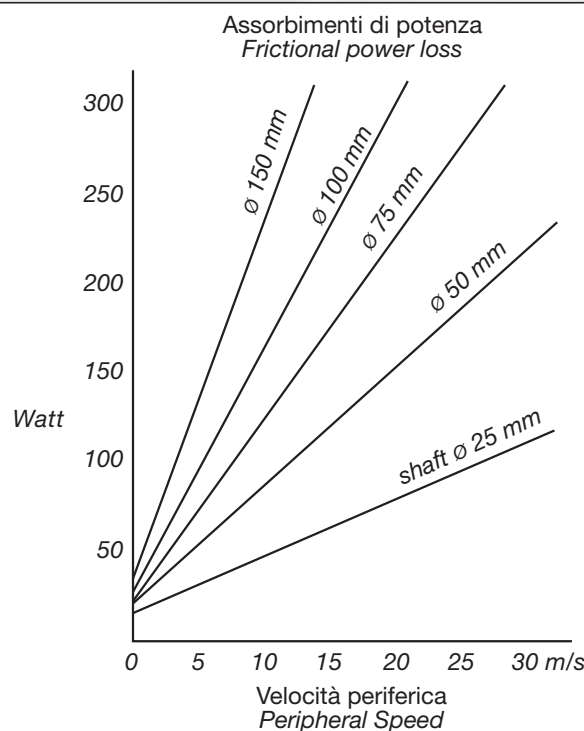


Grafico 4  
Graph 4

### 7.5 Velocità lineare

Dati:  
diametro dell'albero in mm. D  
velocità albero: giri/min. U

Esempio:  
60 mm.  
3000 giri/min

Formula:  
Velocità lineare  $v$  (m/sec)=

$$\frac{D \text{ (mm)} \times U \text{ (min}^{-1}) \times \pi}{60.000} = \frac{60 \times 3000 \times 3,14}{60.000} = 9,42 \text{ m/sec}$$

$$\frac{V \times 60}{(D/1000) \times 3,14} = \frac{9,42 \times 60}{(60/1000) \times 3,14} = 3000 \text{ giri/min rpm}$$

### 7.5 Linear speed

Data:  
Shaft diameter in mm. D  
Speed shaft: rpm U

Example:  
60 mm.  
3000 rpm

Formula:  
Linear speed  $v$  (m/sec)=



### 8.1. Albero

Il materiale più usato per la costruzione dell'albero è l'acciaio temperato con medio tenore di carbonio.

In presenza di fluidi abrasivi che contengono impurità, si consiglia l'impiego di acciai legati, con indurimento della superficie, quali la cromatura o la cementazione.

Non sono da usare i materiali plastici, l'ottone, il bronzo, l'alluminio, etc. in quanto non possiedono una resistenza all'usura.

#### Durezza

La durezza minima è di 45 HRC, che aumenta a 55 HRC, quando il fluido è abrasivo, e la velocità supera i 4 m/sec.

#### Finitura superficiale

La finitura superficiale migliore è ottenuta da rettifica a tuffo, cioè priva di solchi elicoidali tipici delle rettifiche con movimento assiale e rotante del pezzo. Questi solchi avrebbero un effetto pompante a seconda del senso di rotazione dell'albero sullo spigolo dell'anello di tenuta, dando luogo a perdita.

Una rugosità pari a  $0,2 \div 0,63 \mu\text{m}$  è più che sufficiente per tutte le applicazioni.

#### Tolleranze

La tolleranza di lavorazione è la ISO h11, come da tabella 1.

### 8.1. Shaft

*The most suitable material for the shaft is tempered steel.*

*In cases of corrosive fluids or dirt and grid it is suggested the hardened or plated steel.*

*Plastic material, brass, bronze, aluminium are preferably not considered because of their poor wear resistance.*

#### Hardness

*The minimum hardness is 45 HRC which should reach 55 HRC, in case of abrasive fluid or speed exceeding 4 m/s.*

#### Surface finish

*A surface finish by grinding must be completely free from longitudinal marks or scratches. Plunge grinding is preferable to traverse grinding.*

*These marks will have a pump effect towards the sealing lip causing leakage.*

*A ground surface of  $0,2$  to  $0,63 \mu\text{m}$  is recommended for most applications.*

#### Tolerances

*Machining tolerances is ISO h11 as per following table 1.*

Tab. 1

mm

| Diametro albero - Shaft diameter<br>da - a<br>from - to |     | Tolleranza - Tolerance<br>h 11 |
|---------------------------------------------------------|-----|--------------------------------|
| 6                                                       | 10  | 0<br>-0,090                    |
| 10                                                      | 18  | 0<br>-0,110                    |
| 18                                                      | 30  | 0<br>-0,130                    |
| 30                                                      | 50  | 0<br>-0,160                    |
| 50                                                      | 80  | 0<br>-0,190                    |
| 80                                                      | 120 | 0<br>-0,220                    |
| 120                                                     | 180 | 0<br>-0,250                    |
| 180                                                     | 250 | 0<br>-0,290                    |
| 250                                                     | 315 | 0<br>-0,320                    |
| 315                                                     | 400 | 0<br>-0,360                    |

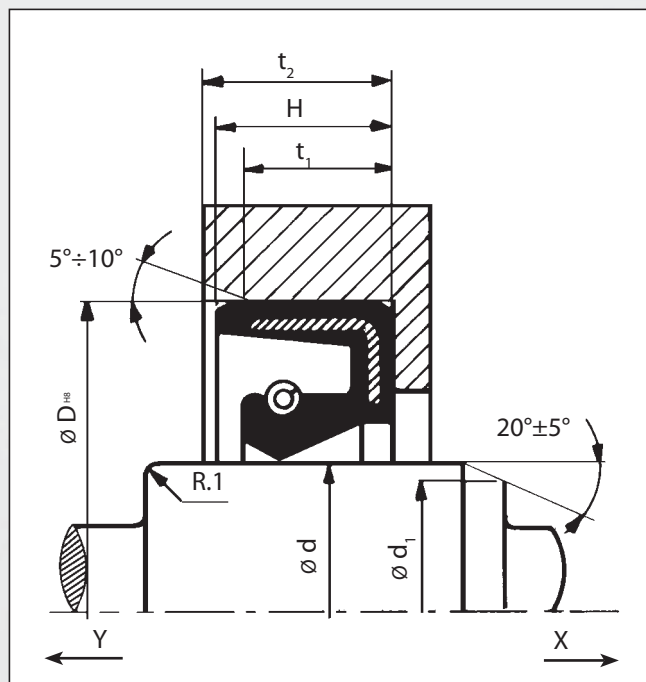
## 8. Parti metalliche Metal parts

TTO

Eseguire uno smusso di invito, sulla superficie cilindrica della sede, di  $5^\circ \div 10^\circ$ , con lunghezza dello smusso in funzione dello spessore dell'anello di tenuta (vedi tabella 2).

The entrance of the groove should have a chamfer inclined by  $5^\circ \div 10^\circ$ , length according to seal thickness (see table 2).

Fig. 1



Tab. 2

mm

| H  | $t_1=0,86 \times H$ | $t_2=H+0,3$ |
|----|---------------------|-------------|
| 4  | 3,4                 | 4,3         |
| 5  | 4,25                | 5,3         |
| 6  | 5,1                 | 6,3         |
| 7  | 5,95                | 7,3         |
| 8  | 6,8                 | 8,3         |
| 9  | 7,65                | 9,3         |
| 10 | 8,5                 | 10,3        |
| 12 | 10,3                | 12,3        |
| 13 | 11,1                | 13,3        |
| 15 | 12,75               | 15,3        |
| 16 | 13,6                | 16,3        |
| 18 | 15,3                | 18,3        |
| 20 | 17,2                | 20,3        |

Tab. 3

mm

| d<br>h11 | d <sub>1</sub> | d<br>h11 | d <sub>1</sub> | d<br>h11 | d <sub>1</sub> | d<br>h11 | d <sub>1</sub> | d<br>h11 | d <sub>1</sub> |
|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|
| 6        | 4,8            | 24       | 21,5           | 52       | 48,3           | 85       | 80,4           | 160      | 153            |
| 7        | 5,7            | 25       | 22,5           | 55       | 51,3           | 90       | 85,3           | 170      | 163            |
| 8        | 6,6            | 26       | 23,4           | 56       | 52,3           | 95       | 90,1           | 180      | 173            |
| 9        | 7,5            | 28       | 25,3           | 58       | 54,2           | 100      | 95             | 190      | 183            |
| 10       | 8,4            | 30       | 27,3           | 60       | 56,1           | 105      | 99,9           | 200      | 193            |
| 11       | 9,3            | 32       | 29,2           | 62       | 58,1           | 110      | 104,7          | 210      | 203            |
| 12       | 10,2           | 35       | 32             | 63       | 59,1           | 115      | 109,6          | 220      | 213            |
| 14       | 12,1           | 36       | 33             | 65       | 61             | 120      | 114,5          | 230      | 223            |
| 15       | 13,1           | 38       | 34,9           | 68       | 63,9           | 125      | 119,4          | 240      | 233            |
| 16       | 14             | 40       | 36,8           | 70       | 65,8           | 130      | 124,3          | 250      | 243            |
| 17       | 14,9           | 42       | 38,7           | 72       | 67,7           | 135      | 129,2          | 260      | 249            |
| 18       | 15,8           | 45       | 41,6           | 75       | 70,7           | 140      | 133            | 280      | 269            |
| 20       | 17,7           | 48       | 44,5           | 78       | 73,6           | 145      | 138            | 300      | 289            |
| 22       | 19,6           | 50       | 46,4           | 80       | 75,5           | 150      | 143            | 320      | 309            |

### 8.2. Sede

#### Materiale

Anche per la sede il materiale più usato è l'acciaio, si possono impiegare anche materiali non ferrosi o sintetici, indispensabile è garantire uno spessore di parete tale che non si deformi per effetto della temperatura.

#### Tolleranze

La sede deve essere lavorata con tolleranza ISO H8 (vedi tabella 4).

Per montaggio di anelli di tenuta con esterno in metallo la tolleranza richiede ISO H7.

#### Finitura superficiale

La finitura superficiale per la sede non richiede particolari valori di rugosità, per montaggio di anelli con diametro esterno in gomma non deve superare i 3,2 µm mentre per anelli con esterno in metallo il valore è 0,4 µm.

#### Operazioni di montaggio

Durante la fase di montaggio, lo spigolo di tenuta non deve essere danneggiato; si raccomanda pertanto di eseguire questi accorgimenti:

- eseguire uno smusso di invito sull'albero, con inclinazione pari a 20° e con diametro  $d_1$  (vedi tabella 3) se la direzione è **X**.
- Eseguire sull'albero in raggio  $r = 1$  mm se la direzione è **Y**.

### 8.2. Housing bore

#### Material

The most used material is steel, other non ferrous material can be used providing that the wall thickness is sufficient for avoiding deformation caused by temperature.

#### Tolerances

Machining tolerance is ISO H8 as per following table 4.

For shaft seals with metal O.D. the tolerance is ISO H7.

#### Surface finish

It's not required a particular surface finish which in any case should not exceed 3,2 µm, for seals with metal O.D. the value is 0,4 µm.

#### Assembly operations

It is recommended to avoid damaging of the sealing lip during assembly, please consider following suggestions:

- the mounting end of the shaft should have a chamfer inclined by 20° and with diameter  $d_1$  if the direction is **X**. (see table 3)
- If the direction is **Y** make a ray  $r = 1$  mm on the shaft.

Tab. 4 mm

| Diametro sede - Housing bore<br>da - a from - to |     | Tolleranza - Tolerance<br>H8 |
|--------------------------------------------------|-----|------------------------------|
| 10                                               | 18  | +0,027<br>0                  |
| 18                                               | 30  | +0,033<br>0                  |
| 30                                               | 50  | +0,039<br>0                  |
| 50                                               | 80  | +0,046<br>0                  |
| 80                                               | 120 | +0,054<br>0                  |
| 120                                              | 180 | +0,063<br>0                  |
| 180                                              | 250 | +0,072<br>0                  |
| 250                                              | 315 | +0,081<br>0                  |
| 315                                              | 400 | +0,089<br>0                  |
| 400                                              | 500 | +0,097<br>0                  |



**Fig. 1. Massimo scostamento in funzione del diametro**

Il rispetto delle tolleranze di coassialità o eccentricità tra albero e sede evita il posizionamento obliquo dell'albero nel sistema e quindi l'usura precoce del labbro di tenuta, dovuto alla maggior interferenza e la perdita di lubrificante sul lato opposto.

**Fig. 1. Maximum deviation in relation to the diameter**

The maintenance of tolerances of misalignment or eccentricity between shaft and housing bore avoids the oblique positioning of the shaft in the system, thus preventing the early wear of the sealing lip, due to a greater interference and lubricant leak on the opposite side.

### COASSIALITÀ MISALIGNMENT

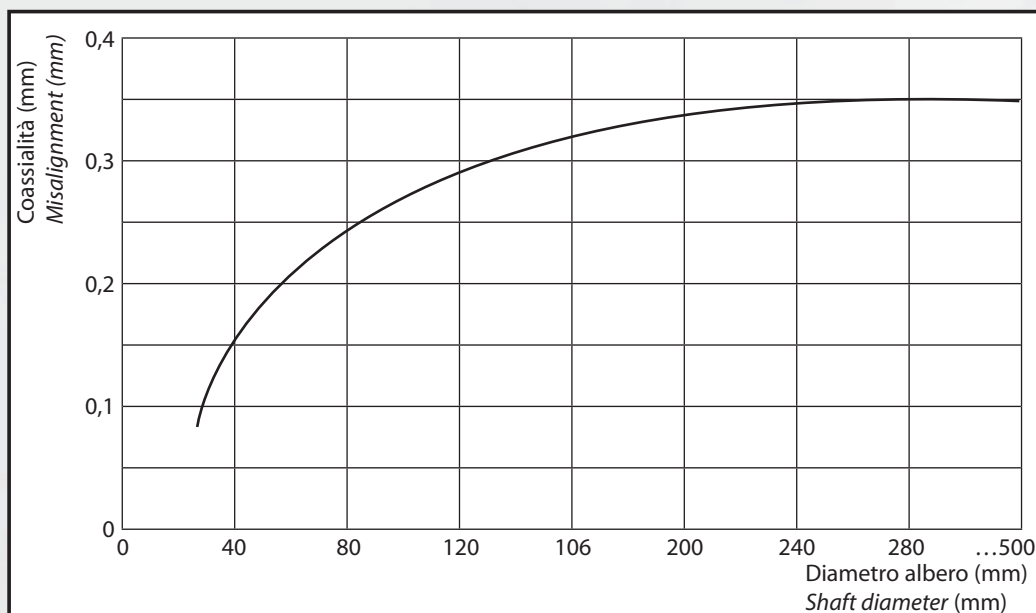


Fig. 1

**Fig. 2. Massimo scostamento in funzione del n° dei giri**

Il rispetto delle tolleranze di concentricità evita, con l'aumentare del numero di giri, che il labbro di tenuta per inerzia non riesca più a seguire l'albero. Questo fenomeno può essere causa di perdite di lubrificante.

**Fig. 2. Maximum deviation in relation to the number of revolutions**

The maintenance of concentricity tolerances avoids that the sealing lip, due to its inertia, can not perfectly follow the shaft movements when the number of revolutions increases. This can cause lubricant leaks.

### CONCENTRICITÀ MISALIGNMENT

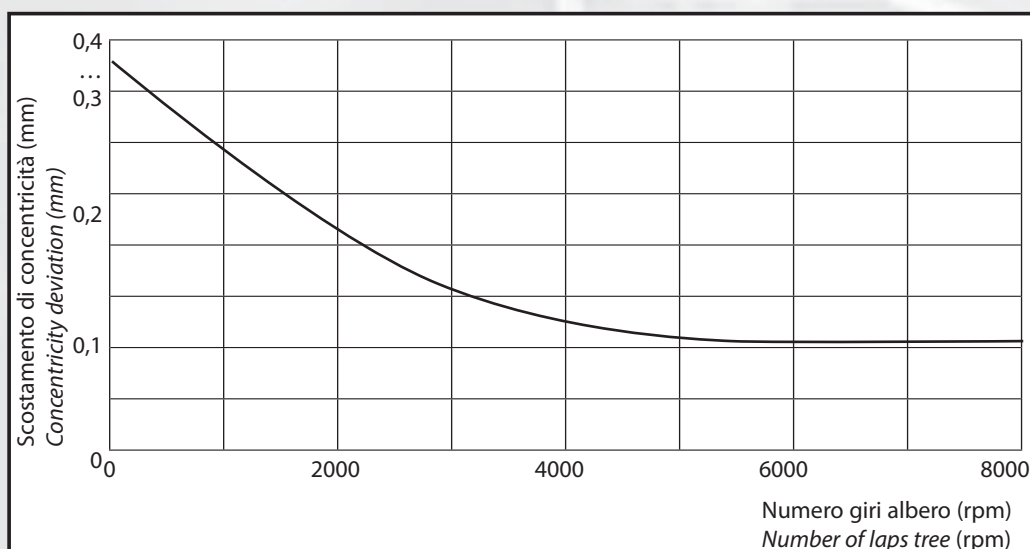


Fig. 1

## 10. Tolleranze costruttive anelli di tenuta Manufacturing tolerances

TTO

### Tabella delle tolleranze sull'eccentricità

Media delle misure in due posizioni a 90° secondo la norma DIN 3761.

### Press fit allowance and permissible eccentricity

Average values of the two measurements offset by 90° in according with DIN 3761 standard.

| Diametro esterno<br><i>Outer diameter</i> |         | Tolleranza diametro esterno<br>Press fit allowance |       |                                      |       | Ovalizzazione<br><i>Permissible eccentricity</i> |
|-------------------------------------------|---------|----------------------------------------------------|-------|--------------------------------------|-------|--------------------------------------------------|
| da<br>from                                | a<br>to | Esterno gomma<br><i>Rubber O.D.</i>                |       | Esterno metallo<br><i>Metal O.D.</i> |       |                                                  |
| –                                         | 50      | +0,30                                              | +0,15 | +0,20                                | +0,10 | 0,25                                             |
| 50                                        | 80      | +0,35                                              | +0,20 | +0,23                                | +0,13 | 0,35                                             |
| 80                                        | 120     | +0,35                                              | +0,20 | +0,25                                | +0,15 | 0,50                                             |
| 120                                       | 180     | +0,45                                              | +0,25 | +0,28                                | +0,18 | 0,65                                             |
| 180                                       | 300     | +0,45                                              | +0,25 | +0,30                                | +0,20 | 0,80                                             |
| 300                                       | 500     | +0,55                                              | +0,30 | +0,35                                | +0,23 | 1,00                                             |

Sull'altezza degli anelli è ammessa una tolleranza di  $\pm 0,2$  mm per alberi con diametro entro 80 mm e  $\pm 0,3$  mm per diametri superiori agli 80 mm.

On seals height the tolerance is  $\pm 0,2$  for shaft up to 80 mm diameter and  $\pm 0,3$  for bigger ones.

# 11. Montaggio e controllo visivo

## Assembly and appearance of rotary shaft seals

TTO

### Montaggio

Attenersi alle seguenti regole:

1. assicurarsi che lo spigolo di tenuta sia pulito e lubrificato, eventualmente lubrificare con grasso oppure olio.
2. Per i tipi di anelli con labbro parapolvere supplementare, riempire l'incavo tra i due spigoli con grasso.
3. Per i tipi di anelli con rigature sinistra o destra e bidirezionali, lubrificare solo con olio.
4. Evitare di fare passare gli anelli in prossimità di spigoli vivi (scarichi di filettature, gole per chiavette, ecc.) se non protette da bussole in acciaio rettificate di spessore massimo di 1 mm (vedi fig. 4).
5. Per il montaggio degli anelli nelle loro sedi, attenersi alle figure sotto riportate.

### Assembly

Please follow these suggestions:

1. be sure that the sealing lip is clean and lubricated with grease or oil.
2. For seals with dust lip fulfill space between the two lips with grease.
3. For seals with uni or bi-directional feature only oil lubrication.
4. Remove all roughness, sharp edges of keyways, screw threads over which the sealing lip has to pass unless a fitting sleeve of max 1 mm thickness is employed (see fig. 4).
5. For assembly of seals pls refer to following examples.

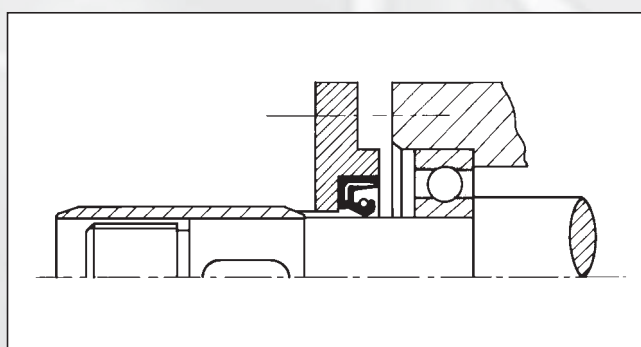
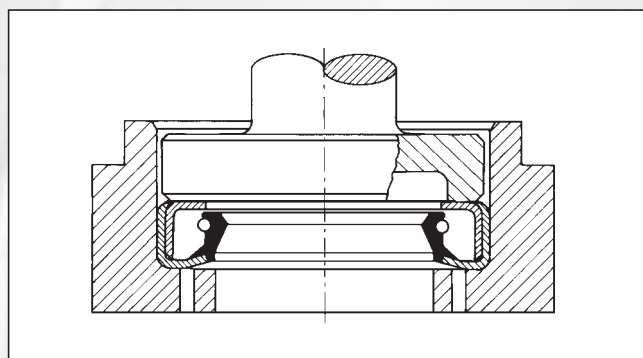
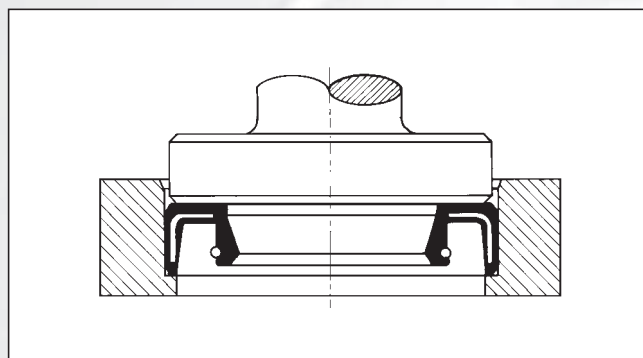
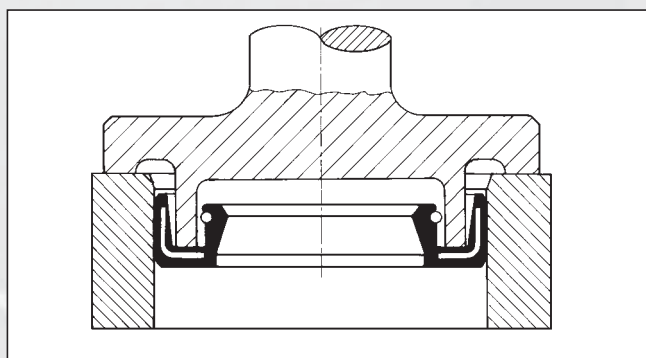
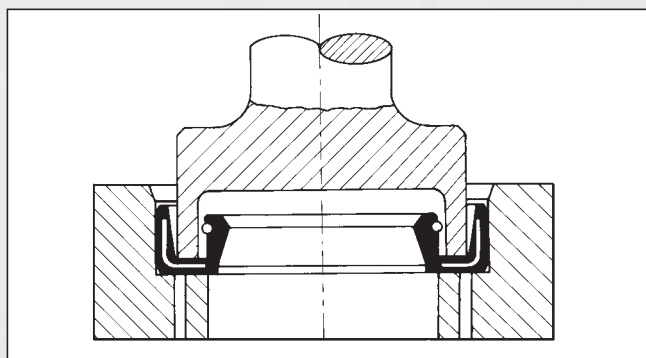


Fig. 4

### Controllo visivo

- a. Lo spigolo dell'anello di tenuta deve essere esente da difetti.
- b. Il dorso di ritegno della molla può permettere solo piccole mancanze di materiale.
- c. Ancoraggio gomma metallo, distacchi non ammessi.
- d. Lo smusso deve risultare idoneo per un corretto montaggio.
- e. L'esterno dell'anello non deve presentare difetti tali da pregiudicare l'efficienza di tenuta.

### Appearance

- a. The sealing edge must be free from faults.
- b. The spring retention lip can show only small material shorts.
- c. Bonding rubber-metal, bond failures not admitted.
- d. The chamfer must be suitable for an easy assembly of the seal.
- e. The seal O.D. must not have important faults which could prevent the sealing efficiency.



## 12. Immagazzinaggio Storage

TTO

L'immagazzinaggio degli anelli di tenuta deve tenere conto di alcune regole importanti per la loro integrità. Come ad esempio:

1. Conservare gli anelli di tenuta nel loro imballo originale, oppure in sacchetti di polietilene.
2. L'ambiente deve essere asciutto, fresco e non polveroso con temperature comprese fra  $-10^{\circ}\text{C}$  e  $+20^{\circ}\text{C}$ .
3. Evitare l'esposizione alla luce solare, poichè i raggi ultravioletti danneggiano la superficie dell'elastomero, modificandola fisicamente.
4. Non appendere gli anelli di tenuta su chiodi o legarli fra loro mediante fili metallici, per evitare di danneggiare il labbro di tenuta.

*Some storage precaution have to be taken in order to avoid deterioration of the shaft seals:*

1. *They must be kept in original wrapping or in plastic envelope.*
2. *They must be in a dust free and dry atmosphere with temperature between  $-10^{\circ}\text{C}$  and  $+20^{\circ}\text{C}$ .*
3. *Avoid light exposure as rays are causing rubber hardening.*
4. *Do not hang seals on hooks wide or nails since the sealing lip can be damaged.*

## 13. Tappi di chiusura End covers

Sono costituiti da inserto metallico rivestito in elastomero NBR.

*Metal insert covered with NBR elastomer.*

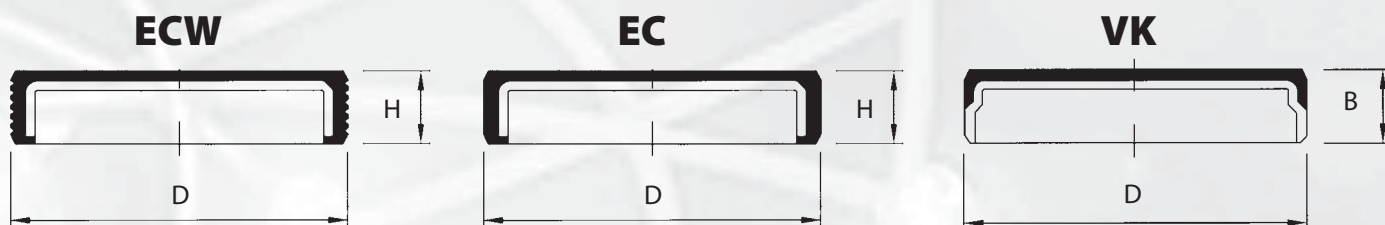


Tabella dimensionale / Dimensional table ECW-EC-VK pag. 64

## 14. Anelli di tenuta per bussole di scorrimento Seals for sliding ball bushing

Gli anelli di tenuta per movimenti assiali sono costituiti da inserto metallico in acciaio, da un rivestimento in elastomero e da un labbro di tenuta senza molla con speciale interferenza, che garantisce un bassissimo assorbimento di potenza.

L'anello di tenuta deve avere il labbro rivolto verso il fluido da tenere, oppure verso l'esterno, se deve effettuare la tenuta di infiltrazioni provenienti dall'ambiente esterno.

*These seals suitable for axial movements applications, consist of a metal case with rubber covered and a single thin lip, without spring that, together with minimal interference, has very low frictional loss.*

*Seals can be fitted with the lip in front of the fluid to be sealed or toward the outside to protect from dust and dirt.*

Specifiche tecniche:

- Materiali: NBR  $-40 \div +120^{\circ}\text{C}$   
FKM  $-30 \div +200^{\circ}\text{C}$
- Velocità di esercizio: 8 m/s
- Pressione d'esercizio: 0 kg/cm<sup>2</sup>

Technical data:

- Compounds: NBR  $-40 \div +120^{\circ}\text{C}$   
FKM  $-30 \div +200^{\circ}\text{C}$
- Speed limit: 8 m/s
- Pressure: 0 kg/cm<sup>2</sup>

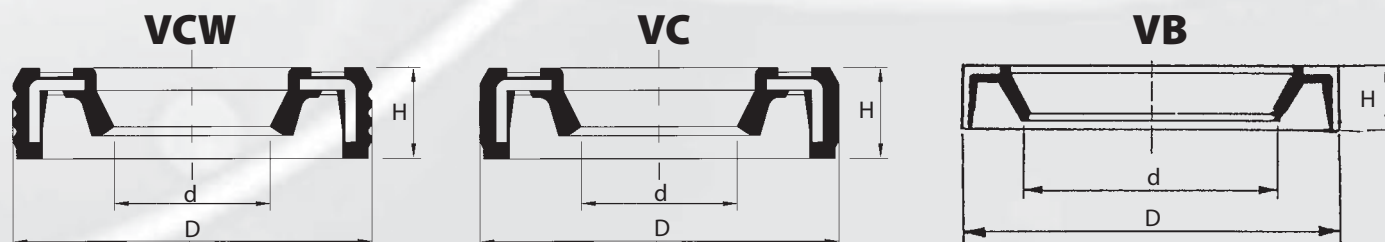


Tabella dimensionale / Dimensional table VCW pag. 65 / VC pag. 66 / VB pag. 67

## 15. Bonded seals BO-1

### BO-1 bonded seals

TTO

Le bonded seals sono guarnizioni a tenuta statica costituite da un anello metallico esterno, a sezione rettangolare, al quale viene accoppiato, all'interno, un anello trapezoidale in gomma. La funzione principale dell'anello metallico è quella di contenere l'elemento in gomma soggetto a deformazione indotta dalle pressioni del sistema.

#### Il dimensionamento delle Bonded Seals è di tre tipi:

- La serie inglese (GAS) "RG" per filettature gas da 1/8" a 2" e misure adattabili a filettature metriche.
- La serie metrica "RM" per filettature metriche da 8 a 22.
- La serie C.E.T.O.P. "RCE" dimensioni raccomandate dal C.E.T.O.P. e dalle norme ISO 1179 per i raccordi.

#### MATERIALI

ANELLO METALLICO: acciaio al carbonio che subisce i seguenti trattamenti: laminazione a freddo (BS 1449), protezione allo zinco (D.T.D. 903 D), passivazione al colore oro (D.E.F. 130) ANELLO IN GOMMA NBR Shore A.

#### LIMITI DI IMPIEGO

Pressioni: Da 0 a 700 Bar (70MPa)  
 Fluidi: Oli e grassi. Aria secca o lubrificata.  
 Emulsioni acqua-olio e acqua-glicole.  
 Temperature: Da -40 °C a + 100 °C

*Bonded seals are flat packings formed by an external metal gasket of rectangular section to which a rubber ring of trapezoidal section is bonded by means of vulcanisation.*

*The main function of the metal washer is to prevent over-compression and to limit deformation of the rubber ring. Bonded seals are used for the static seal of junction, pipes and flanges.*

#### Dimensions of bonded seals

- English series (GAS) RG for gas and metric thread from 1/8" to 2 1/2";
- Metric Series "RM" for metric threads from M4 to M52
- Series C.E.T.O.P. "RCE" (ISO 1179) from 1/8" CTP to 2" CTP

#### MATERIALS

METAL RING: carbon steel with cold rolling (BS 1449), zinc protection (D.T.D. 903 D) gold colour passivation process (D.E.F. 130) Rubber ring NBR 72 Shore A.

#### WORKING CONDITIONS

Pressure: From 0 to 700 bar (70MPa)  
 Fluid: Oil and grease. Dry or lubricated air.  
 Water-in-oil emulsions and water-in glycol.  
 Temperature: From -40 °C up to + 100 °C.

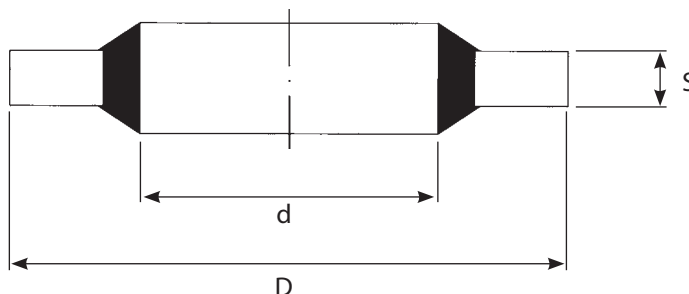


Tabella dimensionale pag. 68

Dimensional table pag. 68

**Anelli di tenuta**  
***Shaft seals***



**Tabelle dimensionali**  
***Dimensional tables***





| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| SC           | 4,0                        | 16,0                 | 6,0              |
| TC           | 4,5                        | 15,0                 | 5,0              |
| TC           | 4,5                        | 16,0                 | 5,0              |
| TC           | 4,5                        | 16,0                 | 7,0              |
| TC           | 4,5                        | 17,0                 | 7,0              |
| TC           | 4,5                        | 18,0                 | 7,0              |
| TC           | 4,8                        | 15,0                 | 5,0              |
| SC           | 4,8                        | 22,0                 | 7,0              |
| SC           | 5,0                        | 15,0                 | 6,0              |
| TC           | 5,0                        | 15,0                 | 6,0              |
| TC           | 5,0                        | 16,0                 | 6,0              |
| TC           | 5,0                        | 17,0                 | 7,0              |
| TC           | 5,0                        | 18,0                 | 6,0              |
| TC           | 5,0                        | 18,0                 | 7,0              |
| TC           | 5,0                        | 18,0                 | 10,0             |
| TC           | 5,0                        | 19,0                 | 7,0              |
| TC           | 5,0                        | 22,0                 | 7,0              |
| TC           | 5,5                        | 18,0                 | 8,0              |
| TC           | 5,5                        | 22,0                 | 8,0              |
| SC           | 6,0                        | 12,0                 | 4,5              |
| SC           | 6,0                        | 12,0                 | 5,5              |
| TC           | 6,0                        | 12,0                 | 8,0              |
| SC           | 6,0                        | 15,0                 | 4,0              |
| SC           | 6,0                        | 15,0                 | 7,0              |
| SC           | 6,0                        | 16,0                 | 5,0              |
| TC           | 6,0                        | 16,0                 | 5,0              |
| TC           | 6,0                        | 16,0                 | 6,0              |
| TC           | 6,0                        | 16,0                 | 6,0              |
| SC           | 6,0                        | 16,0                 | 7,0              |
| TC           | 6,0                        | 16,0                 | 7,0              |
| TC           | 6,0                        | 16,0                 | 7,0              |
| TC           | 6,0                        | 17,0                 | 7,0              |
| TC           | 6,0                        | 17,0                 | 7,0              |
| TC           | 6,0                        | 18,0                 | 6,0              |
| TC           | 6,0                        | 18,0                 | 7,0              |
| TC           | 6,0                        | 19,0                 | 7,0              |
| TC           | 6,0                        | 20,0                 | 5,5              |
| TC           | 6,0                        | 21,0                 | 7,0              |
| SC           | 6,0                        | 22,0                 | 7,0              |
| TC           | 6,0                        | 22,0                 | 7,0              |
| TC           | 6,0                        | 22,0                 | 8,0              |
| SC           | 6,0                        | 25,0                 | 6,0              |
| SC           | 6,0                        | 25,0                 | 8,0              |
| TC           | 6,0                        | 25,0                 | 8,0              |
| TC           | 6,0                        | 26,0                 | 7,0              |
| TC           | 6,0                        | 35,0                 | 7,0              |
| SC           | 6,4                        | 19,1                 | 6,4              |
| SC           | 6,4                        | 19,1                 | 6,4              |
| SC           | 6,4                        | 22,2                 | 3,2              |
| SC           | 6,4                        | 22,2                 | 6,4              |
| SC           | 6,4                        | 12,7                 | 6,4              |
| SC           | 6,4                        | 15,9                 | 4,0              |
| SC           | 6,4                        | 15,9                 | 4,0              |
| SC           | 6,4                        | 16,1                 | 4,8              |
| TC           | 6,4                        | 25,4                 | 6,4              |
| TC           | 6,5                        | 14,5                 | 7,0              |
| TC           | 6,8                        | 22,0                 | 7,0              |
| SC           | 7,0                        | 15,0                 | 5,0              |
| SC           | 7,0                        | 16,0                 | 7,0              |
| TC           | 7,0                        | 16,0                 | 7,0              |
| TC           | 7,0                        | 17,0                 | 5,0              |
| TC           | 7,0                        | 17,0                 | 7,0              |
| SC           | 7,0                        | 18,0                 | 4,5              |
| SC           | 7,0                        | 18,0                 | 6,5              |
| TC           | 7,0                        | 18,0                 | 7,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| TC           | 7,0                        | 19,0                 | 7,0              |
| TC           | 7,0                        | 20,0                 | 7,0              |
| TC           | 7,0                        | 22,0                 | 6,0              |
| SC           | 7,0                        | 22,0                 | 7,0              |
| TC           | 7,0                        | 22,0                 | 7,0              |
| TC           | 7,0                        | 22,0                 | 8,0              |
| SC           | 7,0                        | 31,0                 | 5,0              |
| TC           | 7,0                        | 31,0                 | 7,0              |
| SC           | 7,5                        | 15,9                 | 5,9              |
| SC           | 7,9                        | 14,3                 | 3,2              |
| SC           | 7,9                        | 15,9                 | 3,2              |
| SC           | 7,9                        | 15,9                 | 4,0              |
| TC           | 7,9                        | 19,1                 | 6,4              |
| SC           | 7,9                        | 19,1                 | 6,4              |
| SC           | 7,9                        | 19,1                 | 7,9              |
| SC           | 7,9                        | 22,2                 | 6,4              |
| SC           | 8,0                        | 14,0                 | 4,0              |
| SC           | 8,0                        | 14,0                 | 5,0              |
| TC           | 8,0                        | 14,0                 | 5,0              |
| TC           | 8,0                        | 14,0                 | 7,0              |
| TC           | 8,0                        | 15,0                 | 5,0              |
| SC           | 8,0                        | 16,0                 | 4,0              |
| SC           | 8,0                        | 16,0                 | 5,0              |
| TC           | 8,0                        | 16,0                 | 5,0              |
| SC           | 8,0                        | 16,0                 | 6,0              |
| TC           | 8,0                        | 16,0                 | 6,0              |
| SC           | 8,0                        | 16,0                 | 7,0              |
| TC           | 8,0                        | 16,0                 | 7,0              |
| TC           | 8,0                        | 17,0                 | 7,0              |
| SC           | 8,0                        | 18,0                 | 5,0              |
| TC           | 8,0                        | 18,0                 | 5,0              |
| TC           | 8,0                        | 18,0                 | 6,0              |
| TC           | 8,0                        | 18,0                 | 7,0              |
| TC           | 8,0                        | 18,0                 | 8,0              |
| SC           | 8,0                        | 19,0                 | 4,0              |
| TC           | 8,0                        | 19,0                 | 7,0              |
| TC           | 8,0                        | 20,0                 | 5,0              |
| TC           | 8,0                        | 20,0                 | 7,0              |
| SC           | 8,0                        | 21,0                 | 6,0              |
| TC           | 8,0                        | 21,0                 | 6,0              |
| SC           | 8,0                        | 22,0                 | 6,0              |
| TC           | 8,0                        | 22,0                 | 6,0              |
| SC           | 8,0                        | 22,0                 | 7,0              |
| SC           | 8,0                        | 22,0                 | 7,0              |
| TC           | 8,0                        | 22,0                 | 7,0              |
| TC           | 8,0                        | 22,0                 | 10,0             |
| TC           | 8,0                        | 23,0                 | 5,0              |
| TC           | 8,0                        | 23,0                 | 7,0              |
| SC           | 8,0                        | 24,0                 | 4,5              |
| SC           | 8,0                        | 24,0                 | 7,0              |
| TC           | 8,0                        | 24,0                 | 7,0              |
| SC           | 8,0                        | 25,0                 | 6,0              |
| SC           | 8,0                        | 25,0                 | 7,0              |
| TC           | 8,0                        | 25,0                 | 7,0              |
| TC           | 8,0                        | 25,0                 | 8,0              |
| TC           | 8,0                        | 25,0                 | 9,0              |
| SC           | 8,0                        | 26,0                 | 6,0              |
| TC           | 8,0                        | 26,0                 | 7,0              |
| SC           | 8,0                        | 28,0                 | 5,0              |
| TC           | 8,0                        | 28,0                 | 5,0              |
| TC           | 8,0                        | 30,0                 | 6,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| TC           | 8,0                        | 30,0                 | 7,0              |
| TC           | 8,0                        | 34,0                 | 8,0              |
| TC           | 8,0                        | 34,0                 | 8,0              |
| SC           | 8,3                        | 19,1                 | 6,4              |
| SC           | 8,5                        | 16,0                 | 6,5              |
| TC           | 8,8                        | 18,0                 | 4,0              |
| TC           | 8,8                        | 18,0                 | 4,0              |
| TC           | 8,9                        | 17,0                 | 5,0              |
| TC           | 8,9                        | 20,0                 | 5,0              |
| TC           | 8,9                        | 21,0                 | 5,0              |
| SC           | 9,0                        | 16,0                 | 4,0              |
| TC           | 9,0                        | 16,0                 | 5,5              |
| SC           | 9,0                        | 18,0                 | 7,0              |
| TC           | 9,0                        | 18,0                 | 7,0              |
| SC           | 9,0                        | 19,0                 | 4,0              |
| SC           | 9,0                        | 19,0                 | 5,0              |
| TC           | 9,0                        | 19,0                 | 5,0              |
| TC           | 9,0                        | 19,0                 | 7,0              |
| TC           | 9,0                        | 20,0                 | 4,0              |
| TC           | 9,0                        | 20,0                 | 7,0              |
| SC           | 9,0                        | 21,0                 | 4,5              |
| SC           | 9,0                        | 22,0                 | 7,0              |
| TC           | 9,0                        | 22,0                 | 7,0              |
| TC           | 9,0                        | 24,0                 | 7,0              |
| TC           | 9,0                        | 25,0                 | 7,0              |
| SC           | 9,0                        | 26,0                 | 7,0              |
| TC           | 9,0                        | 26,0                 | 7,0              |
| TC           | 9,0                        | 29,0                 | 7,0              |
| TC           | 9,0                        | 30,0                 | 7,0              |
| TC           | 9,5                        | 17,5                 | 4,0              |
| SC           | 9,5                        | 19,0                 | 6,4              |
| SC           | 9,5                        | 19,1                 | 4,0              |
| SC           | 9,5                        | 19,1                 | 6,4              |
| TC           | 9,5                        | 19,1                 | 6,4              |
| SC           | 9,5                        | 19,1                 | 7,1              |
| TC           | 9,5                        | 22,2                 | 6,4              |
| SC           | 9,5                        | 22,2                 | 7,9              |
| SC           | 9,5                        | 25,4                 | 9,5              |
| SC           | 9,5                        | 17,8                 | 3,8              |
| SC           | 9,5                        | 25,4                 | 6,4              |
| SC           | 9,9                        | 22,9                 | 6,4              |
| SC           | 9,9                        | 17,8                 | 4,0              |
| SC           | 10,0                       | 16,0                 | 4,0              |
| TC           | 10,0                       | 16,0                 | 4,0              |
| TC           | 10,0                       | 16,0                 | 4,5              |
| SC           | 10,0                       | 16,0                 | 5,0              |
| TC           | 10,0                       | 16,0                 | 7,0              |
| TC           | 10,0                       | 17,0                 | 5,0              |
| SC           | 10,0                       | 17,0                 | 6,0              |
| TC           | 10,0                       | 17,0                 | 7,0              |
| SC           | 10,0                       | 18,0                 | 4,0              |
| TC           | 10,0                       | 18,0                 | 4,0              |
| SC           | 10,0                       | 18,0                 | 5,0              |
| TC           | 10,0                       | 18,0                 | 5,0              |
| SC           | 10,0                       | 18,0                 | 6,0              |
| TC           | 10,0                       | 18,0                 | 6,0              |
| TC           | 10,0                       | 18,0                 | 7,0              |
| SC           | 10,0                       | 19,0                 | 4,0              |
| SC           | 10,0                       | 19,0                 | 6,0              |
| TC           | 10,0                       | 19,0                 | 7,0              |
| TC           | 10,0                       | 19,0                 | 7,0              |
| TC           | 10,0                       | 19,0                 | 7,0              |
| TC           | 10,0                       | 19,0                 | 10,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| SC           | 10,0                       | 20,0                 | 4,0              |
| SC           | 10,0                       | 20,0                 | 5,0              |
| TC           | 10,0                       | 20,0                 | 5,0              |
| TC           | 10,0                       | 20,0                 | 5,0              |
| SC           | 10,0                       | 20,0                 | 6,0              |
| TC           | 10,0                       | 20,0                 | 6,0              |
| TC           | 10,0                       | 20,0                 | 7,0              |
| TC           | 10,0                       | 21,0                 | 4,0              |
| SC           | 10,0                       | 21,0                 | 5,0              |
| SC           | 10,0                       | 21,0                 | 6,0              |
| TC           | 10,0                       | 21,0                 | 6,0              |
| TC           | 10,0                       | 21,0                 | 7,0              |
| SC           | 10,0                       | 22,0                 | 4,0              |
| TC           | 10,0                       | 22,0                 | 4,0              |
| TC           | 10,0                       | 22,0                 | 5,0              |
| SC           | 10,0                       | 22,0                 | 6,0              |
| TC           | 10,0                       | 22,0                 | 7,0              |
| TC           | 10,0                       | 22,0                 | 7,0              |
| TC           | 10,0                       | 22,0                 | 8,0              |
| TC           | 10,0                       | 23,0                 | 7,0              |
| TC           | 10,0                       | 23,0                 | 8,0              |
| TC           | 10,0                       | 23,5                 | 7,0              |
| TC           | 10,0                       | 23,5                 | 10,0             |
| TC           | 10,0                       | 24,0                 | 4,0              |
| TC           | 10,0                       | 24,0                 | 6,0              |
| SC           | 10,0                       | 24,0                 | 7,0              |
| TC           | 10,0                       | 24,0                 | 7,0              |
| SC           | 10,0                       | 25,0                 | 5,0              |
| TC           | 10,0                       | 25,0                 | 5,0              |
| TC           | 10,0                       | 25,0                 | 7,0              |
| TC           | 10,0                       | 25,0                 | 10,0             |
| TC           | 10,0                       | 25,4                 | 6,4              |
| SC           | 10,0                       | 26,0                 | 5,5              |
| SC           | 10,0                       | 26,0                 | 7,0              |
| SC           | 10,0                       | 26,0                 | 7,0              |
| TC           | 10,0                       | 26,0                 | 7,0              |
| TC           | 10,0                       | 26,0                 | 7,0              |
| TC           | 10,0                       | 26,0                 | 8,0              |
| SC           | 10,0                       | 28,0                 | 7,0              |
| TC           | 10,0                       | 28,0                 | 7,0              |
| TC           | 10,0                       | 28,0                 | 8,0              |
| TC           | 10,0                       | 28,0                 | 10,0             |
| SC           | 10,0                       | 30,0                 | 7,0              |
| TC           | 10,0                       | 30,0                 | 7,0              |
| TC           | 10,0                       | 30,0                 | 10,0             |
| TC           | 10,0                       | 35,0                 | 8,0              |
| SC           | 10,3                       | 22,2                 | 7,9              |
| SC           | 10,8                       | 20,0                 | 9,0              |
| SC           | 10,8                       | 20,9                 | 6,4              |
| SC           | 11,0                       | 17,0                 | 4,0              |
| TC           | 11,0                       | 17,0                 | 4,0              |
| SC           | 11,0                       | 18,0                 | 4,0              |
| TC           | 11,0                       | 20,0                 | 7,0              |
| TC           | 11,0                       | 21,0                 | 7,0              |
| TC           | 11,0                       | 21,0                 | 8,0              |
| TC           | 11,0                       | 22,0                 | 6,0              |
| SC           | 11,0                       | 22,0                 | 7,0              |
| SC           | 11,0                       | 22,0                 | 7,0              |
| TC           | 11,0                       | 22,0                 | 7,0              |
| TC           | 11,0                       | 23,0                 | 7,0              |
| TC           | 11,0                       | 23,5                 | 7,0              |
| TC           | 11,0                       | 24,0                 | 7,0              |
| TC           | 11,0                       | 25,0                 | 7,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| SC           | 11,0                       | 26,0                 | 7,0              |
| TC           | 11,0                       | 26,0                 | 7,0              |
| TC           | 11,0                       | 28,0                 | 7,0              |
| TC           | 11,0                       | 29,0                 | 7,0              |
| TC           | 11,0                       | 30,0                 | 7,0              |
| TC           | 11,0                       | 30,0                 | 10,0             |
| TC           | 11,1                       | 22,2                 | 4,8              |
| TC           | 11,1                       | 32,0                 | 6,4              |
| SC           | 11,1                       | 22,2                 | 5,6              |
| TC           | 11,1                       | 22,2                 | 6,4              |
| SC           | 11,1                       | 23,8                 | 6,4              |
| SC           | 11,1                       | 25,4                 | 6,4              |
| SC           | 11,1                       | 25,4                 | 9,5              |
| TC           | 11,6                       | 19,0                 | 6,0              |
| TC           | 11,6                       | 22,0                 | 7,0              |
| SC           | 11,6                       | 24,0                 | 10,0             |
| TC           | 11,6                       | 24,0                 | 10,0             |
| SC           | 11,8                       | 22,0                 | 7,0              |
| SC           | 11,9                       | 22,2                 | 4,8              |
| TC           | 11,9                       | 22,2                 | 4,8              |
| SC           | 11,9                       | 25,0                 | 5,0              |
| SC           | 12,0                       | 18,0                 | 4,0              |
| TC           | 12,0                       | 18,0                 | 5,0              |
| TC           | 12,0                       | 19,0                 | 3,0              |
| SC           | 12,0                       | 19,0                 | 5,0              |
| TC           | 12,0                       | 19,0                 | 5,0              |
| TC           | 12,0                       | 19,0                 | 5,0              |
| TC           | 12,0                       | 19,0                 | 7,0              |
| TC           | 12,0                       | 20,0                 | 4,0              |
| SC           | 12,0                       | 20,0                 | 5,0              |
| TC           | 12,0                       | 20,0                 | 5,0              |
| SC           | 12,0                       | 20,0                 | 6,0              |
| TC           | 12,0                       | 20,0                 | 6,0              |
| TC           | 12,0                       | 20,0                 | 7,0              |
| SC           | 12,0                       | 21,0                 | 4,0              |
| TC           | 12,0                       | 21,0                 | 4,0              |
| SC           | 12,0                       | 21,0                 | 5,0              |
| TC           | 12,0                       | 21,0                 | 7,0              |
| SC           | 12,0                       | 22,0                 | 4,0              |
| TC           | 12,0                       | 22,0                 | 4,0              |
| TC           | 12,0                       | 22,0                 | 4,5              |
| SC           | 12,0                       | 22,0                 | 5,0              |
| TC           | 12,0                       | 22,0                 | 5,0              |
| SC           | 12,0                       | 22,0                 | 6,0              |
| TC           | 12,0                       | 22,0                 | 6,0              |
| SC           | 12,0                       | 22,0                 | 7,0              |
| SC           | 12,0                       | 22,0                 | 7,0              |
| TC           | 12,0                       | 22,0                 | 7,0              |
| TC           | 12,0                       | 22,0                 | 7,0              |
| TC           | 12,0                       | 22,0                 | 8,0              |
| TC           | 12,0                       | 22,0                 | 9,0              |
| TC           | 12,0                       | 23,0                 | 7,0              |
| TC           | 12,0                       | 23,0                 | 8,0              |
| TC           | 12,0                       | 23,5                 | 7,0              |
| SC           | 12,0                       | 24,0                 | 4,5              |
| SC           | 12,0                       | 24,0                 | 5,0              |
| TC           | 12,0                       | 24,0                 | 6,0              |
| TC           | 12,0                       | 24,0                 | 6,0              |
| SC           | 12,0                       | 24,0                 | 7,0              |





| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| SC           | 12,0                       | 24,0                | 7,0              |
| TC           | 12,0                       | 24,0                | 7,0              |
| TC           | 12,0                       | 24,0                | 8,0              |
| SC           | 12,0                       | 25,0                | 4,0              |
| SC           | 12,0                       | 25,0                | 4,5              |
| SC           | 12,0                       | 25,0                | 5,0              |
| TC           | 12,0                       | 25,0                | 5,0              |
| TC           | 12,0                       | 25,0                | 6,0              |
| SC           | 12,0                       | 25,0                | 7,0              |
| TC           | 12,0                       | 25,0                | 7,0              |
| TC           | 12,0                       | 25,0                | 8,0              |
| TC           | 12,0                       | 25,0                | 10,0             |
| TC           | 12,0                       | 25,5                | 7,0              |
| SC           | 12,0                       | 26,0                | 4,5              |
| SC           | 12,0                       | 26,0                | 6,0              |
| TC           | 12,0                       | 26,0                | 7,0              |
| TC           | 12,0                       | 26,0                | 7,0              |
| SC           | 12,0                       | 26,0                | 8,0              |
| TC           | 12,0                       | 26,0                | 8,0              |
| TC           | 12,0                       | 27,0                | 7,0              |
| TC           | 12,0                       | 27,0                | 9,0              |
| SC           | 12,0                       | 28,0                | 5,0              |
| SC           | 12,0                       | 28,0                | 6,0              |
| SC           | 12,0                       | 28,0                | 7,0              |
| TC           | 12,0                       | 28,0                | 7,0              |
| SC           | 12,0                       | 28,0                | 8,0              |
| TC           | 12,0                       | 28,0                | 8,0              |
| SC           | 12,0                       | 28,5                | 5,0              |
| SC           | 12,0                       | 28,5                | 5,5              |
| TC           | 12,0                       | 28,5                | 7,0              |
| SC           | 12,0                       | 30,0                | 5,0              |
| TC           | 12,0                       | 30,0                | 5,0              |
| SC           | 12,0                       | 30,0                | 6,0              |
| SC           | 12,0                       | 30,0                | 7,0              |
| TC           | 12,0                       | 30,0                | 7,0              |
| TC           | 12,0                       | 30,0                | 9,0              |
| TC           | 12,0                       | 30,0                | 10,0             |
| SC           | 12,0                       | 32,0                | 5,0              |
| TC           | 12,0                       | 32,0                | 5,0              |
| SC           | 12,0                       | 32,0                | 7,0              |
| TC           | 12,0                       | 32,0                | 7,0              |
| SC           | 12,0                       | 32,0                | 8,0              |
| TC           | 12,0                       | 32,0                | 8,0              |
| SC           | 12,0                       | 32,0                | 10,0             |
| TC           | 12,0                       | 32,0                | 10,0             |
| TC           | 12,0                       | 34,0                | 7,0              |
| SC           | 12,0                       | 35,0                | 5,0              |
| TC           | 12,0                       | 35,0                | 7,0              |
| SC           | 12,0                       | 35,0                | 10,0             |
| TC           | 12,0                       | 35,0                | 10,0             |
| TC           | 12,0                       | 37,0                | 7,0              |
| SC           | 12,0                       | 37,0                | 10,0             |
| SC           | 12,0                       | 45,0                | 7,0              |
| TC           | 12,0                       | 45,0                | 7,0              |
| TC           | 12,5                       | 22,0                | 7,0              |
| SC           | 12,5                       | 22,0                | 6,0              |
| TC           | 12,5                       | 22,0                | 6,0              |
| TC           | 12,5                       | 23,5                | 8,0              |
| TC           | 12,5                       | 23,5                | 10,0             |
| TC           | 12,5                       | 25,0                | 8,0              |
| TC           | 12,5                       | 28,5                | 7,0              |
| SC           | 12,7                       | 19,5                | 7,1              |
| TC           | 12,7                       | 20,6                | 4,0              |
| SC           | 12,7                       | 21,9                | 4,8              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| SC           | 12,7                       | 22,2                | 6,4              |
| SC           | 12,7                       | 22,2                | 7,9              |
| TC           | 12,7                       | 22,2                | 8,0              |
| TC           | 12,7                       | 22,5                | 5,5              |
| SC           | 12,7                       | 22,9                | 6,4              |
| SC           | 12,7                       | 25,4                | 5,1              |
| SC           | 12,7                       | 25,4                | 6,4              |
| SC           | 12,7                       | 25,4                | 6,4              |
| TC           | 12,7                       | 25,4                | 6,4              |
| SC           | 12,7                       | 25,4                | 9,5              |
| TC           | 12,7                       | 26,0                | 6,0              |
| SC           | 12,7                       | 28,6                | 6,4              |
| TC           | 12,7                       | 28,6                | 7,9              |
| SC           | 12,7                       | 31,8                | 7,9              |
| TC           | 12,7                       | 31,8                | 7,9              |
| TC           | 12,7                       | 34,9                | 6,4              |
| SC           | 13,0                       | 20,0                | 4,5              |
| TC           | 13,0                       | 20,0                | 5,0              |
| SC           | 13,0                       | 22,0                | 4,0              |
| SC           | 13,0                       | 22,0                | 5,0              |
| TC           | 13,0                       | 22,0                | 5,0              |
| SC           | 13,0                       | 22,0                | 6,0              |
| TC           | 13,0                       | 22,0                | 6,0              |
| TC           | 13,0                       | 22,0                | 7,0              |
| TC           | 13,0                       | 23,0                | 7,0              |
| SC           | 13,0                       | 24,0                | 5,0              |
| SC           | 13,0                       | 24,0                | 6,0              |
| SC           | 13,0                       | 24,0                | 7,0              |
| TC           | 13,0                       | 24,0                | 7,0              |
| SC           | 13,0                       | 25,0                | 5,0              |
| TC           | 13,0                       | 25,0                | 5,0              |
| TC           | 13,0                       | 25,0                | 7,0              |
| SC           | 13,0                       | 26,0                | 7,0              |
| TC           | 13,0                       | 26,0                | 7,0              |
| TC           | 13,0                       | 26,0                | 9,0              |
| TC           | 13,0                       | 27,0                | 7,0              |
| TC           | 13,0                       | 28,0                | 5,0              |
| SC           | 13,0                       | 28,0                | 7,0              |
| TC           | 13,0                       | 28,0                | 7,0              |
| TC           | 13,0                       | 30,0                | 7,0              |
| SC           | 13,0                       | 30,0                | 8,0              |
| TC           | 13,0                       | 30,0                | 8,0              |
| SC           | 13,0                       | 32,0                | 6,0              |
| SC           | 13,0                       | 32,0                | 7,0              |
| TC           | 13,0                       | 32,0                | 7,0              |
| TC           | 13,0                       | 35,0                | 7,0              |
| SC           | 13,7                       | 24,0                | 5,0              |
| TC           | 13,7                       | 24,0                | 5,0              |
| TC           | 13,7                       | 25,0                | 5,0              |
| TC           | 13,8                       | 24,0                | 5,0              |
| SC           | 14,0                       | 20,0                | 5,0              |
| TC           | 14,0                       | 20,0                | 7,0              |
| SC           | 14,0                       | 21,0                | 4,0              |
| TC           | 14,0                       | 21,0                | 4,0              |
| TC           | 14,0                       | 22,0                | 4,0              |
| TC           | 14,0                       | 22,0                | 4,0              |
| SC           | 14,0                       | 22,0                | 5,0              |
| TC           | 14,0                       | 22,0                | 5,0              |
| SC           | 14,0                       | 22,0                | 6,0              |
| SC           | 14,0                       | 22,0                | 7,0              |
| TC           | 14,0                       | 22,0                | 7,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC           | 14,0                       | 23,0                | 6,0              |
| TC           | 14,0                       | 24,0                | 4,0              |
| SC           | 14,0                       | 24,0                | 5,0              |
| TC           | 14,0                       | 24,0                | 5,0              |
| SC           | 14,0                       | 24,0                | 6,0              |
| TC           | 14,0                       | 24,0                | 6,0              |
| SC           | 14,0                       | 24,0                | 7,0              |
| TC           | 14,0                       | 24,0                | 7,0              |
| SC           | 14,0                       | 24,0                | 7,6              |
| SC           | 14,0                       | 24,0                | 8,0              |
| TC           | 14,0                       | 24,0                | 8,0              |
| TC           | 14,0                       | 25,0                | 4,0              |
| SC           | 14,0                       | 25,0                | 5,0              |
| TC           | 14,0                       | 25,0                | 5,0              |
| SC           | 14,0                       | 25,0                | 6,0              |
| TC           | 14,0                       | 25,0                | 7,0              |
| TC           | 14,0                       | 25,0                | 9,0              |
| SC           | 14,0                       | 26,0                | 5,0              |
| SC           | 14,0                       | 26,0                | 6,0              |
| TC           | 14,0                       | 26,0                | 6,0              |
| SC           | 14,0                       | 26,0                | 7,0              |
| TC           | 14,0                       | 26,0                | 7,0              |
| SC           | 14,0                       | 26,0                | 8,0              |
| TC           | 14,0                       | 26,0                | 8,0              |
| SC           | 14,0                       | 27,0                | 6,0              |
| SC           | 14,0                       | 27,0                | 7,0              |
| TC           | 14,0                       | 27,0                | 7,0              |
| TC           | 14,0                       | 27,0                | 10,0             |
| SC           | 14,0                       | 28,0                | 6,0              |
| SC           | 14,0                       | 28,0                | 7,0              |
| TC           | 14,0                       | 28,0                | 7,0              |
| TC           | 14,0                       | 28,0                | 8,0              |
| SC           | 14,0                       | 28,0                | 10,0             |
| TC           | 14,0                       | 28,5                | 7,0              |
| TC           | 14,0                       | 29,0                | 7,0              |
| SC           | 14,0                       | 30,0                | 4,0              |
| SC           | 14,0                       | 30,0                | 7,0              |
| TC           | 14,0                       | 30,0                | 7,0              |
| TC           | 14,0                       | 30,0                | 7,5              |
| TC           | 14,0                       | 30,0                | 8,0              |
| TC           | 14,0                       | 30,0                | 9,0              |
| TC           | 14,0                       | 30,0                | 10,0             |
| SC           | 14,0                       | 32,0                | 5,0              |
| TC           | 14,0                       | 32,0                | 7,0              |
| TC           | 14,0                       | 32,0                | 7,5              |
| SC           | 14,0                       | 32,0                | 9,0              |
| TC           | 14,0                       | 32,0                | 10,0             |
| TC           | 14,0                       | 33,0                | 6,0              |
| SC           | 14,0                       | 35,0                | 4,5              |
| TC           | 14,0                       | 35,0                | 7,0              |
| TC           | 14,0                       | 35,0                | 8,0              |
| TC           | 14,0                       | 35,0                | 10,0             |
| TC           | 14,0                       | 36,0                | 7,0              |
| TC           | 14,0                       | 40,0                | 7,0              |
| TC           | 14,0                       | 40,0                | 10,0             |
| SC           | 14,0                       | 42,0                | 6,0              |
| TC           | 14,3                       | 21,8                | 4,0              |
| TC           | 14,3                       | 25,4                | 6,4              |
| SC           | 14,3                       | 27,0                | 6,4              |
| SC           | 14,3                       | 28,6                | 6,4              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC           | 14,3                       | 28,6                | 6,4              |
| SC           | 14,3                       | 34,9                | 6,4              |
| TC           | 14,5                       | 32,0                | 7,0              |
| SC           | 14,8                       | 30,0                | 4,5              |
| SC           | 14,8                       | 30,0                | 5,0              |
| SC           | 14,8                       | 30,0                | 7,0              |
| TC           | 14,8                       | 30,0                | 7,5              |
| TC           | 14,8                       | 32,0                | 7,5              |
| TC           | 14,8                       | 35,0                | 7,5              |
| SC           | 15,0                       | 21,0                | 5,0              |
| TC           | 15,0                       | 21,0                | 5,0              |
| TC           | 15,0                       | 22,0                | 4,0              |
| TC           | 15,0                       | 22,0                | 5,0              |
| SC           | 15,0                       | 22,0                | 6,0              |
| SC           | 15,0                       | 22,0                | 7,0              |
| TC           | 15,0                       | 22,0                | 7,0              |
| TC           | 15,0                       | 23,0                | 7,0              |
| SC           | 15,0                       | 24,0                | 4,0              |
| SC           | 15,0                       | 24,0                | 5,0              |
| SC           | 15,0                       | 24,0                | 5,0              |
| SC           | 15,0                       | 24,0                | 5,0              |
| TC           | 15,0                       | 24,0                | 5,0              |
| TC           | 15,0                       | 24,0                | 5,0              |
| TC           | 15,0                       | 24,0                | 6,0              |
| SC           | 15,0                       | 24,0                | 7,0              |
| TC           | 15,0                       | 24,0                | 7,0              |
| SC           | 15,0                       | 25,0                | 5,0              |
| TC           | 15,0                       | 25,0                | 5,0              |
| SC           | 15,0                       | 25,0                | 6,0              |
| TC           | 15,0                       | 25,0                | 6,0              |
| SC           | 15,0                       | 25,0                | 7,0              |
| TC           | 15,0                       | 25,0                | 7,0              |
| TC           | 15,0                       | 25,0                | 8,0              |
| SC           | 15,0                       | 25,0                | 10,0             |
| TC           | 15,0                       | 25,5                | 4,5              |
| SC           | 15,0                       | 25,5                | 7,0              |
| TC           | 15,0                       | 25,5                | 7,0              |
| SC           | 15,0                       | 26,0                | 4,0              |
| SC           | 15,0                       | 26,0                | 5,0              |
| TC           | 15,0                       | 26,0                | 5,0              |
| SC           | 15,0                       | 26,0                | 6,0              |
| TC           | 15,0                       | 26,0                | 6,0              |
| SC           | 15,0                       | 26,0                | 7,0              |
| TC           | 15,0                       | 26,0                | 7,0              |
| TC           | 15,0                       | 26,0                | 7,0              |
| TC           | 15,0                       | 26,0                | 8,0              |
| TC           | 15,0                       | 27,0                | 7,0              |
| TC           | 15,0                       | 27,0                | 8,0              |
| SC           | 15,0                       | 28,0                | 4,0              |
| TC           | 15,0                       | 28,0                | 4,0              |
| SC           | 15,0                       | 28,0                | 5,0              |
| SC           | 15,0                       | 28,0                | 6,0              |
| TC           | 15,0                       | 28,0                | 6,0              |
| SC           | 15,0                       | 28,0                | 7,0              |
| TC           | 15,0                       | 28,0                | 7,0              |
| TC           | 15,0                       | 28,0                | 8,0              |
| TC           | 15,0                       | 28,1                | 7,0              |
| TC           | 15,0                       | 28,5                | 7,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC           | 15,0                       | 29,0                | 7,0              |
| SC           | 15,0                       | 30,0                | 4,5              |
| SC           | 15,0                       | 30,0                | 5,0              |
| TC           | 15,0                       | 30,0                | 5,0              |
| SC           | 15,0                       | 30,0                | 6,0              |
| SC           | 15,0                       | 30,0                | 7,0              |
| TC           | 15,0                       | 30,0                | 7,0              |
| TC           | 15,0                       | 30,0                | 7,5              |
| SC           | 15,0                       | 30,0                | 8,0              |
| TC           | 15,0                       | 30,0                | 8,0              |
| SC           | 15,0                       | 30,0                | 10,0             |
| TC           | 15,0                       | 30,0                | 10,0             |
| TC           | 15,0                       | 31,0                | 4,0              |
| TC           | 15,0                       | 31,0                | 7,0              |
| TC           | 15,0                       | 32,0                | 5,0              |
| SC           | 15,0                       | 32,0                | 7,0              |
| TC           | 15,0                       | 32,0                | 7,0              |
| TC           | 15,0                       | 32,0                | 7,5              |
| TC           | 15,0                       | 32,0                | 9,0              |
| SC           | 15,0                       | 33,0                | 7,0              |
| TC           | 15,0                       | 33,0                | 7,0              |
| SC           | 15,0                       | 35,0                | 4,0              |
| TC           | 15,0                       | 35,0                | 5,0              |
| SC           | 15,0                       | 35,0                | 5,3              |
| TC           | 15,0                       | 35,0                | 6,0              |
| SC           | 15,0                       | 35,0                | 7,0              |
| SC           | 15,0                       | 35,0                | 7,0              |
| TC           | 15,0                       | 35,0                | 7,0              |
| TC           | 15,0                       | 35,0                | 7,0              |
| SC           | 15,0                       | 35,0                | 8,0              |
| SC           | 15,0                       | 35,0                | 8,0              |
| TC           | 15,0                       | 35,0                | 8,0              |
| TC           | 15,0                       | 35,0                | 10,0             |
| SC           | 15,0                       | 36,0                | 6,0              |
| TC           | 15,0                       | 36,0                | 7,0              |
| TC           | 15,0                       | 37,0                | 7,0              |
| TC           | 15,0                       | 38,0                | 7,0              |
| TC           | 15,0                       | 38,0                | 10,0             |
| TC           | 15,0                       | 40,0                | 7,0              |
| SC           | 15,0                       | 40,0                | 8,0              |
| TC           | 15,0                       | 40,0                | 8,0              |
| SC           | 15,0                       | 40,0                | 10,0             |
| TC           | 15,0                       | 40,0                | 10,0             |
| SC           | 15,0                       | 42,0                | 7,0              |
| TC           | 15,0                       | 42,0                | 7,0              |
| TC           | 15,0                       | 42,0                | 8,0              |
| TC           | 15,0                       | 42,0                | 10,0             |
| TC           | 15,6                       | 25,5                | 7,0              |
| TC           | 15,8                       | 28,5                | 4,0              |
| TC           | 15,9                       | 23,8                | 4,8              |
| TC           | 15,9                       | 25,4                | 6,4              |
| SC           | 15,9                       | 25,4                | 4,8              |
| SC           | 15,9                       | 25,4                | 6,4              |
| SC           | 15,9                       | 25,4                | 6,4              |
| SC           | 15,9                       | 28,6                | 3,8              |
| SC           | 15,9                       | 28,6                | 6,4              |
| SC           | 15,9                       | 28,6                | 6,4              |
| SC           | 15,9                       | 28,6                | 6,4              |
| TC           | 15,9                       | 28,6                | 6,4              |
| TC           | 15,9                       | 28,6                | 6,4              |
| SC           | 15,9                       | 28,6                | 7,1              |



| Tipo<br>Type | Dimensioni Dimensions (mm)    |                               |               |
|--------------|-------------------------------|-------------------------------|---------------|
|              | Diametro Diameter<br>Internal | Diametro Diameter<br>External | Altezza Width |
| SC           | 15,9                          | 28,6                          | 7,9           |
| TC           | 15,9                          | 28,6                          | 7,9           |
| TC           | 15,9                          | 28,6                          | 9,5           |
| TC           | 15,9                          | 31,8                          | 6,4           |
| TC           | 15,9                          | 31,8                          | 7,0           |
| SC           | 15,9                          | 31,8                          | 7,9           |
| TC           | 15,9                          | 32,1                          | 7,0           |
| SC           | 15,9                          | 34,9                          | 6,4           |
| TC           | 15,9                          | 34,9                          | 6,4           |
| SC           | 15,9                          | 34,9                          | 9,5           |
| SC           | 15,9                          | 34,9                          | 9,5           |
| TC           | 16,0                          | 21,0                          | 6,0           |
| SC           | 16,0                          | 22,0                          | 3,0           |
| SC           | 16,0                          | 22,0                          | 4,0           |
| TC           | 16,0                          | 22,0                          | 4,0           |
| TC           | 16,0                          | 22,0                          | 7,0           |
| SC           | 16,0                          | 23,0                          | 6,5           |
| SC           | 16,0                          | 24,0                          | 4,0           |
| TC           | 16,0                          | 24,0                          | 4,0           |
| SC           | 16,0                          | 24,0                          | 5,0           |
| TC           | 16,0                          | 24,0                          | 5,0           |
| SC           | 16,0                          | 24,0                          | 6,0           |
| TC           | 16,0                          | 24,0                          | 6,0           |
| SC           | 16,0                          | 24,0                          | 7,0           |
| TC           | 16,0                          | 24,0                          | 7,0           |
| TC           | 16,0                          | 25,0                          | 5,0           |
| TC           | 16,0                          | 25,0                          | 6,0           |
| TC           | 16,0                          | 25,0                          | 7,0           |
| SC           | 16,0                          | 26,0                          | 5,0           |
| TC           | 16,0                          | 26,0                          | 5,0           |
| TC           | 16,0                          | 26,0                          | 6,0           |
| TC           | 16,0                          | 26,0                          | 6,0           |
| SC           | 16,0                          | 26,0                          | 7,0           |
| TC           | 16,0                          | 26,0                          | 7,0           |
| SC           | 16,0                          | 27,0                          | 6,0           |
| TC           | 16,0                          | 27,0                          | 6,0           |
| TC           | 16,0                          | 27,0                          | 7,0           |
| TC           | 16,0                          | 27,0                          | 7,0           |
| TC           | 16,0                          | 28,0                          | 6,0           |
| SC           | 16,0                          | 28,0                          | 7,0           |
| TC           | 16,0                          | 28,0                          | 7,0           |
| TC           | 16,0                          | 28,5                          | 8,0           |
| TC           | 16,0                          | 29,0                          | 7,0           |
| SC           | 16,0                          | 30,0                          | 4,5           |
| TC           | 16,0                          | 30,0                          | 4,5           |
| SC           | 16,0                          | 30,0                          | 5,0           |
| TC           | 16,0                          | 30,0                          | 5,0           |
| TC           | 16,0                          | 30,0                          | 6,0           |
| SC           | 16,0                          | 30,0                          | 7,0           |
| TC           | 16,0                          | 30,0                          | 7,0           |
| TC           | 16,0                          | 30,0                          | 8,0           |
| TC           | 16,0                          | 30,0                          | 10,0          |
| TC           | 16,0                          | 30,0                          | 10,0          |
| SC           | 16,0                          | 35,0                          | 7,0           |
| TC           | 16,0                          | 35,0                          | 7,0           |
| SC           | 16,0                          | 35,0                          | 8,0           |
| TC           | 16,0                          | 35,0                          | 8,0           |
| SC           | 16,0                          | 35,0                          | 10,0          |
| TC           | 16,0                          | 35,0                          | 10,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                               |               |
|--------------|-------------------------------|-------------------------------|---------------|
|              | Diametro Diameter<br>Internal | Diametro Diameter<br>External | Altezza Width |
| TC           | 16,0                          | 35,0                          | 10,0          |
| TC           | 16,0                          | 36,0                          | 7,0           |
| TC           | 16,0                          | 37,0                          | 7,0           |
| SC           | 16,0                          | 38,0                          | 7,0           |
| TC           | 16,0                          | 38,0                          | 8,0           |
| SC           | 16,0                          | 40,0                          | 7,0           |
| TC           | 16,0                          | 40,0                          | 7,0           |
| SC           | 16,0                          | 40,0                          | 8,0           |
| SC           | 16,0                          | 40,0                          | 10,0          |
| TC           | 16,0                          | 40,0                          | 10,0          |
| TC           | 16,0                          | 42,0                          | 6,0           |
| TC           | 16,0                          | 47,0                          | 7,0           |
| TC           | 16,4                          | 30,0                          | 5,0           |
| SC           | 16,7                          | 40,0                          | 6,4           |
| TC           | 16,7                          | 40,0                          | 6,4           |
| SC           | 16,9                          | 28,0                          | 5,0           |
| SC           | 17,0                          | 24,0                          | 5,0           |
| TC           | 17,0                          | 24,0                          | 5,0           |
| TC           | 17,0                          | 24,0                          | 7,0           |
| SC           | 17,0                          | 25,0                          | 4,0           |
| TC           | 17,0                          | 25,0                          | 4,0           |
| SC           | 17,0                          | 25,0                          | 5,0           |
| TC           | 17,0                          | 25,0                          | 6,0           |
| SC           | 17,0                          | 25,0                          | 7,0           |
| TC           | 17,0                          | 25,0                          | 7,0           |
| TC           | 17,0                          | 25,0                          | 7,0           |
| TC           | 17,0                          | 25,0                          | 10,0          |
| SC           | 17,0                          | 26,0                          | 6,0           |
| TC           | 17,0                          | 26,0                          | 6,0           |
| TC           | 17,0                          | 26,0                          | 7,0           |
| TC           | 17,0                          | 26,0                          | 8,0           |
| SC           | 17,0                          | 27,0                          | 5,0           |
| TC           | 17,0                          | 27,0                          | 5,0           |
| SC           | 17,0                          | 27,0                          | 6,0           |
| SC           | 17,0                          | 27,0                          | 7,0           |
| TC           | 17,0                          | 27,0                          | 7,0           |
| TC           | 17,0                          | 27,0                          | 8,0           |
| TC           | 17,0                          | 27,0                          | 10,0          |
| TC           | 17,0                          | 28,0                          | 4,0           |
| SC           | 17,0                          | 28,0                          | 4,5           |
| TC           | 17,0                          | 28,0                          | 4,5           |
| SC           | 17,0                          | 28,0                          | 5,0           |
| TC           | 17,0                          | 28,0                          | 5,0           |
| SC           | 17,0                          | 28,0                          | 6,0           |
| TC           | 17,0                          | 28,0                          | 6,0           |
| SC           | 17,0                          | 28,0                          | 7,0           |
| TC           | 17,0                          | 28,0                          | 7,0           |
| SC           | 17,0                          | 28,0                          | 7,3           |
| TC           | 17,0                          | 28,0                          | 8,0           |
| SC           | 17,0                          | 28,3                          | 7,0           |
| TC           | 17,0                          | 28,5                          | 7,0           |
| SC           | 17,0                          | 29,0                          | 5,0           |
| TC           | 17,0                          | 29,0                          | 5,0           |
| TC           | 17,0                          | 29,0                          | 7,0           |
| SC           | 17,0                          | 30,0                          | 5,0           |
| TC           | 17,0                          | 30,0                          | 5,0           |
| TC           | 17,0                          | 30,0                          | 6,0           |
| TC           | 17,0                          | 30,0                          | 6,0           |
| SC           | 17,0                          | 30,0                          | 7,0           |
| TC           | 17,0                          | 30,0                          | 7,0           |
| TC           | 17,0                          | 30,0                          | 7,0           |
| TC           | 17,0                          | 30,0                          | 8,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                               |               |
|--------------|-------------------------------|-------------------------------|---------------|
|              | Diametro Diameter<br>Internal | Diametro Diameter<br>External | Altezza Width |
| TC           | 17,0                          | 30,0                          | 10,0          |
| SC           | 17,0                          | 31,0                          | 7,0           |
| TC           | 17,0                          | 31,0                          | 7,0           |
| TC           | 17,0                          | 31,0                          | 8,0           |
| TC           | 17,0                          | 31,8                          | 8,0           |
| SC           | 17,0                          | 32,0                          | 5,0           |
| TC           | 17,0                          | 32,0                          | 5,0           |
| TC           | 17,0                          | 32,0                          | 6,0           |
| SC           | 17,0                          | 32,0                          | 7,0           |
| SC           | 17,0                          | 32,0                          | 7,0           |
| TC           | 17,0                          | 32,0                          | 7,0           |
| SC           | 17,0                          | 32,0                          | 8,0           |
| TC           | 17,0                          | 32,0                          | 8,0           |
| TC           | 17,0                          | 33,0                          | 7,0           |
| TC           | 17,0                          | 34,0                          | 4,0           |
| SC           | 17,0                          | 34,0                          | 7,0           |
| TC           | 17,0                          | 34,0                          | 7,0           |
| TC           | 17,0                          | 34,5                          | 4,0           |
| SC           | 17,0                          | 35,0                          | 5,0           |
| TC           | 17,0                          | 35,0                          | 5,0           |
| TC           | 17,0                          | 35,0                          | 6,0           |
| SC           | 17,0                          | 35,0                          | 7,0           |
| TC           | 17,0                          | 35,0                          | 7,0           |
| SC           | 17,0                          | 35,0                          | 8,0           |
| TC           | 17,0                          | 35,0                          | 8,0           |
| TC           | 17,0                          | 35,0                          | 10,0          |
| TC           | 17,0                          | 36,0                          | 7,0           |
| SC           | 17,0                          | 37,0                          | 7,0           |
| TC           | 17,0                          | 37,0                          | 7,0           |
| TC           | 17,0                          | 37,0                          | 10,0          |
| SC           | 17,0                          | 38,0                          | 7,0           |
| TC           | 17,0                          | 38,0                          | 7,0           |
| TC           | 17,0                          | 38,0                          | 8,0           |
| TC           | 17,0                          | 38,0                          | 10,0          |
| TC           | 17,0                          | 40,0                          | 5,0           |
| SC           | 17,0                          | 40,0                          | 6,0           |
| SC           | 17,0                          | 40,0                          | 7,0           |
| TC           | 17,0                          | 40,0                          | 7,0           |
| TC           | 17,0                          | 40,0                          | 8,0           |
| TC           | 17,0                          | 40,0                          | 8,5           |
| TC           | 17,0                          | 40,0                          | 10,0          |
| TC           | 17,0                          | 42,0                          | 7,0           |
| TC           | 17,0                          | 45,0                          | 7,0           |
| TC           | 17,0                          | 46,0                          | 6,0           |
| SC           | 17,0                          | 47,0                          | 7,0           |
| TC           | 17,0                          | 47,0                          | 7,0           |
| TC           | 17,0                          | 47,0                          | 8,0           |
| SC           | 17,0                          | 47,0                          | 10,0          |
| TC           | 17,0                          | 47,0                          | 10,0          |
| SC           | 17,5                          | 28,6                          | 6,4           |
| TC           | 17,5                          | 28,6                          | 6,4           |
| SC           | 17,5                          | 28,6                          | 9,5           |
| SC           | 17,5                          | 30,2                          | 6,4           |
| SC           | 17,5                          | 31,8                          | 6,4           |
| TC           | 17,5                          | 31,8                          | 6,4           |
| TC           | 17,5                          | 31,8                          | 9,5           |
| SC           | 17,5                          | 34,9                          | 7,9           |
| SC           | 17,5                          | 30,0                          | 6,0           |
| TC           | 17,5                          | 32,0                          | 6,0           |
| TC           | 17,6                          | 30,0                          | 7,0           |
| SC           | 17,8                          | 30,0                          | 6,0           |
| SC           | 17,8                          | 34,0                          | 9,5           |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                               |               |
|--------------|-------------------------------|-------------------------------|---------------|
|              | Diametro Diameter<br>Internal | Diametro Diameter<br>External | Altezza Width |
| SC           | 18,0                          | 24,0                          | 4,0           |
| TC           | 18,0                          | 24,0                          | 5,0           |
| TC           | 18,0                          | 24,0                          | 7,0           |
| TC           | 18,0                          | 25,0                          | 7,0           |
| SC           | 18,0                          | 26,0                          | 6,0           |
| TC           | 18,0                          | 26,0                          | 7,0           |
| SC           | 18,0                          | 27,0                          | 5,0           |
| TC           | 18,0                          | 27,0                          | 7,0           |
| TC           | 18,0                          | 28,0                          | 4,5           |
| SC           | 18,0                          | 28,0                          | 6,0           |
| TC           | 18,0                          | 28,0                          | 6,0           |
| SC           | 18,0                          | 28,0                          | 7,0           |
| TC           | 18,0                          | 28,0                          | 7,0           |
| TC           | 18,0                          | 28,0                          | 8,0           |
| TC           | 18,0                          | 28,0                          | 10,0          |
| SC           | 18,0                          | 29,0                          | 5,0           |
| TC           | 18,0                          | 29,0                          | 7,0           |
| SC           | 18,0                          | 30,0                          | 5,0           |
| TC           | 18,0                          | 30,0                          | 6,0           |
| SC           | 18,0                          | 30,0                          | 7,0           |
| TC           | 18,0                          | 30,0                          | 7,0           |
| TC           | 18,0                          | 30,0                          | 8,0           |
| TC           | 18,0                          | 30,0                          | 10,0          |
| TC           | 18,0                          | 31,0                          | 7,0           |
| TC           | 18,0                          | 32,0                          | 6,0           |
| SC           | 18,0                          | 32,0                          | 7,0           |
| TC           | 18,0                          | 32,0                          | 7,0           |
| TC           | 18,0                          | 32,0                          | 8,0           |
| TC           | 18,0                          | 32,0                          | 10,0          |
| TC           | 18,0                          | 34,0                          | 7,0           |
| SC           | 18,0                          | 35,0                          | 5,0           |
| SC           | 18,0                          | 35,0                          | 7,0           |
| TC           | 18,0                          | 35,0                          | 7,0           |
| TC           | 18,0                          | 35,0                          | 8,0           |
| TC           | 18,0                          | 35,0                          | 10,0          |
| TC           | 18,0                          | 35,0                          | 10,0          |
| SC           | 18,0                          | 36,0                          | 7,0           |
| SC           | 18,0                          | 37,0                          | 5,0           |
| TC           | 18,0                          | 37,0                          | 7,0           |
| TC           | 18,0                          | 37,0                          | 8,0           |
| TC           | 18,0                          | 37,0                          | 10,0          |
| TC           | 18,0                          | 38,0                          | 5,0           |
| TC           | 18,0                          | 38,0                          | 7,0           |
| TC           | 18,0                          | 38,0                          | 10,0          |
| SC           | 18,0                          | 40,0                          | 7,0           |
| TC           | 18,0                          | 40,0                          | 7,0           |
| TC           | 18,0                          | 40,0                          | 9,0           |
| SC           | 18,0                          | 40,0                          | 10,0          |
| TC           | 18,0                          | 40,0                          | 10,0          |
| TC           | 18,0                          | 42,0                          | 7,0           |
| TC           | 18,0                          | 42,0                          | 10,0          |
| SC           | 18,0                          | 47,0                          | 10,0          |
| TC           | 18,3                          | 31,8                          | 6,4           |
| TC           | 18,5                          | 28,0                          | 7,0           |
| SC           | 18,7                          | 33,4                          | 6,4           |
| SC           | 18,9                          | 28,0                          | 5,0           |
| SC           | 18,9                          | 30,0                          | 5,0           |
| TC           | 19,0                          | 25,0                          | 6,0           |
| TC           | 19,0                          | 27,0                          | 5,0           |
| SC           | 19,0                          | 27,0                          | 6,0           |
| TC           | 19,0                          | 27,0                          | 7,0           |
| TC           | 19,0                          | 27,0                          | 7,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                               |               |
|--------------|-------------------------------|-------------------------------|---------------|
|              | Diametro Diameter<br>Internal | Diametro Diameter<br>External | Altezza Width |
| SC           | 19,0                          | 28,0                          | 6,0           |
| TC           | 19,0                          | 28,0                          | 7,0           |
| TC           | 19,0                          | 29,0                          | 7,0           |
| SC           | 19,0                          | 30,0                          | 5,0           |
| SC           | 19,0                          | 30,0                          | 7,0           |
| TC           | 19,0                          | 30,0                          | 7,0           |
| SC           | 19,0                          | 30,0                          | 8,0           |
| TC           | 19,0                          | 31,0                          | 7,0           |
| SC           | 19,0                          | 32,0                          | 5,0           |
| TC           | 19,0                          | 32,0                          | 5,0           |
| TC           | 19,0                          | 32,0                          | 6,0           |
| SC           | 19,0                          | 32,0                          | 7,0           |
| TC           | 19,0                          | 32,0                          | 7,0           |
| TC           | 19,0                          | 32,0                          | 8,0           |
| TC           | 19,0                          | 32,0                          | 10,0          |
| TC           | 19,0                          | 33,0                          | 7,0           |
| TC           | 19,0                          | 33,0                          | 8,0           |
| TC           | 19,0                          | 33,5                          | 7,0           |
| TC           | 19,0                          | 34,0                          | 7,0           |
| TC           | 19,0                          | 35,0                          | 5,0           |
| SC           | 19,0                          | 35,0                          | 6,0           |
| SC           | 19,0                          | 35,0                          | 7,0           |
| TC           | 19,0                          | 35,0                          | 7,0           |
| TC           | 19,0                          | 35,0                          | 8,0           |
| TC           | 19,0                          | 35,0                          | 10,0          |
| TC           | 19,0                          | 35,0                          | 10,0          |
| TC           | 19,0                          | 36,0                          | 7,0           |
| SC           | 19,0                          | 36,0                          | 8,5           |
| TC           | 19,0                          | 37,0                          | 7,0           |
| TC           | 19,0                          | 37,0                          | 10,0          |
| TC           | 19,0                          | 38,0                          | 7,0           |
| TC           | 19,0                          | 38,0                          | 8,0           |
| TC           | 19,0                          | 38,0                          | 10,0          |
| TC           | 19,0                          | 40,0                          | 7,0           |
| SC           | 19,0                          | 40,0                          | 8,0           |
| TC           | 19,0                          | 40,0                          | 10,0          |
| TC           | 19,0                          | 41,0                          | 7,0           |
| SC           | 19,0                          | 42,0                          | 7,0           |
| TC           | 19,0                          | 42,0                          | 7,0           |
| TC           | 19,0                          | 47,0                          | 7,0           |
| SC           | 19,0                          | 47,0                          | 10,0          |
| TC           | 19,0                          | 47,0                          | 10,0          |
| SC           | 19,1                          | 25,4                          | 3,2           |
| TC           | 19,1                          | 25,4                          | 4,0           |
| TC           | 19,1                          | 25,4                          | 6,4           |
| SC           | 19,1                          | 28,6                          | 4,0           |
| SC           | 19,1                          | 28,6                          | 4,8           |
| SC           | 19,1                          | 28,6                          | 4,8           |
| SC           | 19,1                          | 28,6                          | 6,4           |
| TC           | 19,1                          | 28,6                          | 6,4           |
| TC           | 19,1                          | 28,6                          | 7,4           |
| SC           | 19,1                          | 29,0                          | 6,4           |
| TC           | 19,1                          | 30,0                          | 5,0           |
| SC           | 19,1                          | 30,2                          | 6,4           |
| SC           | 19,1                          | 31,8                          | 4,8           |
| SC           | 19,1                          | 31,8                          | 6,4           |
| SC           | 19,1                          | 31,8                          | 6,4           |
| TC           | 19,1                          | 31,8                          | 6,4           |
| TC           | 19,1                          | 33,3                          | 7,9           |
| TC           | 19,1                          | 33,3                          | 6,4           |
| SC           | 19,1                          | 34,9                          | 6,4           |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 19,1                       | 34,9             | 6,4           |
| SC           | 19,1                       | 34,9             | 10,3          |
| TC           | 19,1                       | 38,1             | 4,8           |
| TC           | 19,1                       | 38,1             | 6,4           |
| TC           | 19,1                       | 40,0             | 7,9           |
| TC           | 19,1                       | 41,3             | 6,4           |
| SC           | 19,1                       | 41,3             | 7,9           |
| TC           | 19,1                       | 44,5             | 6,4           |
| TC           | 19,1                       | 45,3             | 6,4           |
| TC           | 19,1                       | 62,0             | 10,0          |
| TC           | 19,3                       | 35,0             | 5,7           |
| SC           | 19,5                       | 29,0             | 5,0           |
| TC           | 19,5                       | 50,0             | 5,0           |
| TC           | 19,8                       | 30,0             | 5,0           |
| TC           | 19,8                       | 30,0             | 7,0           |
| TC           | 19,8                       | 31,8             | 6,4           |
| SC           | 19,8                       | 41,3             | 6,4           |
| TC           | 19,8                       | 47,0             | 9,5           |
| TC           | 19,8                       | 47,0             | 6,4           |
| TC           | 19,8                       | 47,0             | 7,9           |
| TC           | 20,0                       | 25,0             | 5,0           |
| TC           | 20,0                       | 25,0             | 7,0           |
| TC           | 20,0                       | 25,0             | 8,0           |
| SC           | 20,0                       | 26,0             | 4,0           |
| TC           | 20,0                       | 26,0             | 4,0           |
| TC           | 20,0                       | 26,0             | 5,0           |
| TC           | 20,0                       | 26,0             | 5,6           |
| TC           | 20,0                       | 27,0             | 5,0           |
| SC           | 20,0                       | 28,0             | 4,0           |
| TC           | 20,0                       | 28,0             | 4,0           |
| TC           | 20,0                       | 28,0             | 5,0           |
| SC           | 20,0                       | 28,0             | 6,0           |
| TC           | 20,0                       | 28,0             | 6,0           |
| SC           | 20,0                       | 28,0             | 7,0           |
| TC           | 20,0                       | 28,0             | 7,0           |
| SC           | 20,0                       | 30,0             | 4,0           |
| TC           | 20,0                       | 30,0             | 4,5           |
| SC           | 20,0                       | 30,0             | 5,0           |
| TC           | 20,0                       | 30,0             | 5,0           |
| SC           | 20,0                       | 30,0             | 6,0           |
| TC           | 20,0                       | 30,0             | 7,0           |
| SC           | 20,0                       | 30,0             | 7,0           |
| TC           | 20,0                       | 30,0             | 7,0           |
| TC           | 20,0                       | 30,0             | 8,0           |
| TC           | 20,0                       | 30,0             | 9,0           |
| TC           | 20,0                       | 30,0             | 10,0          |
| TC           | 20,0                       | 31,0             | 5,0           |
| TC           | 20,0                       | 31,0             | 7,0           |
| SC           | 20,0                       | 32,0             | 5,0           |
| TC           | 20,0                       | 32,0             | 5,0           |
| SC           | 20,0                       | 32,0             | 6,0           |
| TC           | 20,0                       | 32,0             | 6,0           |
| SC           | 20,0                       | 32,0             | 7,0           |
| TC           | 20,0                       | 32,0             | 7,0           |
| TC           | 20,0                       | 32,0             | 7,5           |
| TC           | 20,0                       | 32,0             | 8,0           |
| TC           | 20,0                       | 32,0             | 10,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 20,0                       | 33,0             | 7,0           |
| TC           | 20,0                       | 33,0             | 10,0          |
| SC           | 20,0                       | 34,0             | 4,0           |
| SC           | 20,0                       | 34,0             | 5,0           |
| SC           | 20,0                       | 34,0             | 6,0           |
| SC           | 20,0                       | 34,0             | 6,5           |
| SC           | 20,0                       | 34,0             | 7,0           |
| SC           | 20,0                       | 34,0             | 7,0           |
| TC           | 20,0                       | 34,0             | 7,0           |
| SC           | 20,0                       | 35,0             | 4,0           |
| TC           | 20,0                       | 35,0             | 5,0           |
| SC           | 20,0                       | 35,0             | 5,5           |
| SC           | 20,0                       | 35,0             | 6,0           |
| SC           | 20,0                       | 35,0             | 6,0           |
| TC           | 20,0                       | 35,0             | 6,0           |
| SC           | 20,0                       | 35,0             | 7,0           |
| SC           | 20,0                       | 35,0             | 7,0           |
| TC           | 20,0                       | 35,0             | 7,0           |
| TC           | 20,0                       | 35,0             | 7,0           |
| TC           | 20,0                       | 35,0             | 8,0           |
| TC           | 20,0                       | 35,0             | 9,0           |
| SC           | 20,0                       | 35,0             | 10,0          |
| TC           | 20,0                       | 35,0             | 10,0          |
| TC           | 20,0                       | 35,0             | 12,0          |
| SC           | 20,0                       | 36,0             | 7,0           |
| TC           | 20,0                       | 36,0             | 7,0           |
| SC           | 20,0                       | 36,0             | 8,0           |
| TC           | 20,0                       | 36,0             | 8,0           |
| TC           | 20,0                       | 36,0             | 10,0          |
| TC           | 20,0                       | 36,0             | 12,0          |
| TC           | 20,0                       | 37,0             | 6,0           |
| SC           | 20,0                       | 37,0             | 7,0           |
| TC           | 20,0                       | 37,0             | 7,0           |
| SC           | 20,0                       | 37,0             | 8,0           |
| TC           | 20,0                       | 37,0             | 8,0           |
| TC           | 20,0                       | 37,0             | 10,0          |
| TC           | 20,0                       | 37,7             | 7,0           |
| SC           | 20,0                       | 38,0             | 5,0           |
| TC           | 20,0                       | 38,0             | 5,0           |
| SC           | 20,0                       | 38,0             | 7,0           |
| TC           | 20,0                       | 38,0             | 7,0           |
| SC           | 20,0                       | 38,0             | 8,0           |
| TC           | 20,0                       | 38,0             | 8,0           |
| TC           | 20,0                       | 38,0             | 10,0          |
| TC           | 20,0                       | 38,0             | 15,0          |
| TC           | 20,0                       | 39,0             | 6,0           |
| SC           | 20,0                       | 39,3             | 5,5           |
| TC           | 20,0                       | 39,8             | 6,5           |
| TC           | 20,0                       | 40,0             | 5,0           |
| SC           | 20,0                       | 40,0             | 7,0           |
| TC           | 20,0                       | 40,0             | 7,0           |
| TC           | 20,0                       | 40,0             | 8,0           |
| TC           | 20,0                       | 40,0             | 9,0           |
| SC           | 20,0                       | 40,0             | 10,0          |
| TC           | 20,0                       | 40,0             | 10,0          |
| TC           | 20,0                       | 40,0             | 12,0          |
| TC           | 20,0                       | 41,2             | 5,0           |
| TC           | 20,0                       | 41,3             | 7,0           |
| SC           | 20,0                       | 42,0             | 5,5           |
| SC           | 20,0                       | 42,0             | 6,0           |
| SC           | 20,0                       | 42,0             | 6,0           |
| SC           | 20,0                       | 42,0             | 6,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 20,0                       | 42,0             | 6,0           |
| SC           | 20,0                       | 42,0             | 7,0           |
| SC           | 20,0                       | 42,0             | 7,0           |
| TC           | 20,0                       | 42,0             | 7,0           |
| TC           | 20,0                       | 42,0             | 8,0           |
| TC           | 20,0                       | 42,0             | 10,0          |
| TC           | 20,0                       | 42,0             | 12,0          |
| TC           | 20,0                       | 43,0             | 7,0           |
| TC           | 20,0                       | 44,0             | 7,0           |
| TC           | 20,0                       | 45,0             | 7,0           |
| TC           | 20,0                       | 45,0             | 8,0           |
| TC           | 20,0                       | 45,0             | 10,0          |
| TC           | 20,0                       | 45,0             | 12,0          |
| TC           | 20,0                       | 46,0             | 8,0           |
| SC           | 20,0                       | 47,0             | 5,3           |
| TC           | 20,0                       | 47,0             | 6,0           |
| SC           | 20,0                       | 47,0             | 7,0           |
| TC           | 20,0                       | 47,0             | 7,0           |
| TC           | 20,0                       | 47,0             | 8,0           |
| SC           | 20,0                       | 47,0             | 8,5           |
| TC           | 20,0                       | 47,0             | 9,0           |
| SC           | 20,0                       | 47,0             | 10,0          |
| TC           | 20,0                       | 47,0             | 10,0          |
| TC           | 20,0                       | 47,0             | 12,0          |
| TC           | 20,0                       | 47,0             | 13,0          |
| SC           | 20,0                       | 48,0             | 7,0           |
| TC           | 20,0                       | 48,0             | 7,0           |
| TC           | 20,0                       | 48,0             | 8,0           |
| TC           | 20,0                       | 48,0             | 10,0          |
| TC           | 20,0                       | 49,0             | 7,0           |
| TC           | 20,0                       | 50,0             | 8,0           |
| TC           | 20,0                       | 50,0             | 9,0           |
| TC           | 20,0                       | 50,0             | 10,0          |
| SC           | 20,0                       | 52,0             | 6,0           |
| TC           | 20,0                       | 52,0             | 6,0           |
| SC           | 20,0                       | 52,0             | 7,0           |
| TC           | 20,0                       | 52,0             | 7,0           |
| SC           | 20,0                       | 52,0             | 8,0           |
| TC           | 20,0                       | 52,0             | 8,0           |
| TC           | 20,0                       | 52,0             | 9,0           |
| SC           | 20,0                       | 52,0             | 10,0          |
| TC           | 20,0                       | 52,0             | 10,0          |
| TC           | 20,0                       | 52,0             | 12,0          |
| TC           | 20,0                       | 62,0             | 7,0           |
| TC           | 20,6                       | 34,9             | 6,4           |
| SC           | 20,6                       | 38,1             | 6,4           |
| TC           | 20,6                       | 41,3             | 6,4           |
| SC           | 20,6                       | 44,5             | 4,8           |
| SC           | 21,0                       | 28,0             | 4,0           |
| TC           | 21,0                       | 30,0             | 6,5           |
| TC           | 21,0                       | 30,0             | 10,0          |
| TC           | 21,0                       | 31,0             | 7,0           |
| TC           | 21,0                       | 32,0             | 5,0           |
| TC           | 21,0                       | 33,0             | 7,0           |
| SC           | 21,0                       | 35,0             | 6,0           |
| SC           | 21,0                       | 35,0             | 6,5           |
| TC           | 21,0                       | 35,0             | 7,0           |
| SC           | 21,0                       | 36,0             | 7,0           |
| TC           | 21,0                       | 36,0             | 7,0           |
| TC           | 21,0                       | 37,0             | 5,5           |
| TC           | 21,0                       | 37,0             | 7,0           |
| TC           | 21,0                       | 40,0             | 7,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 21,0                       | 48,0             | 8,0           |
| TC           | 21,5                       | 35,0             | 8,0           |
| TC           | 21,7                       | 35,0             | 6,5           |
| TC           | 22,0                       | 28,0             | 4,0           |
| TC           | 22,0                       | 30,0             | 4,0           |
| TC           | 22,0                       | 30,0             | 7,0           |
| TC           | 22,0                       | 30,0             | 8,0           |
| TC           | 22,0                       | 30,0             | 10,0          |
| SC           | 22,0                       | 31,0             | 5,0           |
| TC           | 22,0                       | 31,0             | 7,0           |
| TC           | 22,0                       | 32,0             | 4,5           |
| SC           | 22,0                       | 32,0             | 5,0           |
| TC           | 22,0                       | 32,0             | 5,0           |
| SC           | 22,0                       | 32,0             | 5,5           |
| SC           | 22,0                       | 32,0             | 6,0           |
| TC           | 22,0                       | 32,0             | 6,0           |
| SC           | 22,0                       | 32,0             | 7,0           |
| SC           | 22,0                       | 32,0             | 7,0           |
| TC           | 22,0                       | 32,0             | 7,0           |
| TC           | 22,0                       | 32,0             | 8,0           |
| TC           | 22,0                       | 33,0             | 7,0           |
| TC           | 22,0                       | 33,0             | 10,0          |
| SC           | 22,0                       | 34,0             | 7,0           |
| TC           | 22,0                       | 34,0             | 7,0           |
| SC           | 22,0                       | 34,5             | 6,0           |
| TC           | 22,0                       | 35,0             | 5,0           |
| SC           | 22,0                       | 35,0             | 5,5           |
| SC           | 22,0                       | 35,0             | 6,0           |
| SC           | 22,0                       | 35,0             | 6,0           |
| TC           | 22,0                       | 35,0             | 6,4           |
| SC           | 22,0                       | 35,0             | 7,0           |
| SC           | 22,0                       | 35,0             | 7,0           |
| TC           | 22,0                       | 35,0             | 7,0           |
| SC           | 22,0                       | 35,0             | 8,0           |
| TC           | 22,0                       | 35,0             | 8,0           |
| TC           | 22,0                       | 35,0             | 9,0           |
| SC           | 22,0                       | 35,0             | 10,0          |
| TC           | 22,0                       | 35,0             | 10,0          |
| SC           | 22,0                       | 35,5             | 6,0           |
| TC           | 22,0                       | 36,0             | 5,0           |
| SC           | 22,0                       | 36,0             | 6,0           |
| SC           | 22,0                       | 36,0             | 7,0           |
| TC           | 22,0                       | 36,0             | 7,0           |
| TC           | 22,0                       | 36,0             | 8,0           |
| TC           | 22,0                       | 36,0             | 10,0          |
| TC           | 22,0                       | 37,0             | 5,0           |
| TC           | 22,0                       | 37,0             | 6,0           |
| TC           | 22,0                       | 37,0             | 7,0           |
| TC           | 22,0                       | 37,0             | 8,0           |
| TC           | 22,0                       | 38,0             | 5,0           |
| SC           | 22,0                       | 38,0             | 6,0           |
| TC           | 22,0                       | 38,0             | 7,0           |
| SC           | 22,0                       | 38,0             | 8,0           |
| TC           | 22,0                       | 38,0             | 8,0           |
| TC           | 22,0                       | 38,0             | 10,0          |
| TC           | 22,0                       | 39,0             | 7,0           |
| TC           | 22,0                       | 40,0             | 4,0           |
| SC           | 22,0                       | 40,0             | 7,0           |
| TC           | 22,0                       | 40,0             | 7,0           |
| TC           | 22,0                       | 40,0             | 8,0           |
| SC           | 22,0                       | 40,0             | 10,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC           | 22,0                       | 40,0                | 10,0             |
| TC           | 22,0                       | 40,0                | 11,0             |
| TC           | 22,0                       | 40,0                | 12,0             |
| TC           | 22,0                       | 41,3                | 6,0              |
| TC           | 22,0                       | 41,5                | 6,0              |
| TC           | 22,0                       | 42,0                | 5,0              |
| TC           | 22,0                       | 42,0                | 6,0              |
| SC           | 22,0                       | 42,0                | 7,0              |
| TC           | 22,0                       | 42,0                | 7,0              |
| TC           | 22,0                       | 42,0                | 8,0              |
| TC           | 22,0                       | 42,0                | 10,0             |
| TC           | 22,0                       | 42,0                | 11,0             |
| TC           | 22,0                       | 43,0                | 6,0              |
| TC           | 22,0                       | 44,0                | 7,0              |
| TC           | 22,0                       | 45,0                | 5,0              |
| SC           | 22,0                       | 45,0                | 7,0              |
| TC           | 22,0                       | 45,0                | 7,0              |
| TC           | 22,0                       | 45,0                | 8,0              |
| TC           | 22,0                       | 45,0                | 10,0             |
| TC           | 22,0                       | 46,0                | 8,0              |
| SC           | 22,0                       | 47,0                | 7,0              |
| TC           | 22,0                       | 47,0                | 7,0              |
| SC           | 22,0                       | 47,0                | 10,0             |
| TC           | 22,0                       | 47,0                | 10,0             |
| TC           | 22,0                       | 47,0                | 12,0             |
| TC           | 22,0                       | 48,0                | 7,0              |
| TC           | 22,0                       | 48,0                | 11,0             |
| TC           | 22,0                       | 50,0                | 5,0              |
| SC           | 22,0                       | 50,0                | 7,0              |
| TC           | 22,0                       | 50,0                | 7,0              |
| TC           | 22,0                       | 50,0                | 10,0             |
| TC           | 22,0                       | 52,0                | 8,0              |
| TC           | 22,0                       | 52,0                | 10,0             |
| TC           | 22,0                       | 55,0                | 7,0              |
| TC           | 22,0                       | 56,0                | 7,0              |
| SC           | 22,0                       | 62,0                | 5,4              |
| TC           | 22,0                       | 62,0                | 10,0             |
| TC           | 22,2                       | 34,8                | 7,9              |
| SC           | 22,2                       | 31,8                | 4,8              |
| TC           | 22,2                       | 31,8                | 4,8              |
| TC           | 22,2                       | 32,0                | 6,4              |
| SC           | 22,2                       | 33,3                | 5,6              |
| SC           | 22,2                       | 33,3                | 7,9              |
| SC           | 22,2                       | 34,9                | 6,4              |
| SC           | 22,2                       | 34,9                | 6,4              |
| TC           | 22,2                       | 34,9                | 6,4              |
| SC           | 22,2                       | 34,9                | 9,5              |
| SC           | 22,2                       | 38,1                | 7,9              |
| SC           | 22,2                       | 38,1                | 6,4              |
| TC           | 22,2                       | 38,1                | 7,9              |
| SC           | 22,2                       | 38,1                | 9,5              |
| SC           | 22,2                       | 38,7                | 3,2              |
| SC           | 22,2                       | 41,3                | 9,5              |
| TC           | 22,2                       | 42,8                | 9,5              |
| SC           | 22,2                       | 44,5                | 9,5              |
| TC           | 22,2                       | 47,6                | 6,4              |
| SC           | 22,2                       | 47,6                | 9,5              |
| SC           | 22,2                       | 50,8                | 6,4              |
| SC           | 22,2                       | 52,4                | 9,0              |
| SC           | 22,2                       | 52,4                | 11,1             |
| SC           | 22,4                       | 35,0                | 6,0              |
| SC           | 22,7                       | 47,0                | 7,0              |





| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |
| TC           | 25,0                       | 55,0                 |                  |
| TC           | 25,0                       | 55,0                 | 10,0             |
| TC           | 25,0                       | 55,0                 | 12,0             |
| TC           | 25,0                       | 56,0                 | 12,0             |
| TC           | 25,0                       | 58,0                 | 10,0             |
| TC           | 25,0                       | 60,0                 | 7,0              |
| TC           | 25,0                       | 60,0                 | 10,0             |
| SC           | 25,0                       | 62,0                 | 6,0              |
| TC           | 25,0                       | 62,0                 | 6,0              |
| SC           | 25,0                       | 62,0                 | 7,0              |
| TC           | 25,0                       | 62,0                 | 7,0              |
| TC           | 25,0                       | 62,0                 | 7,0              |
| SC           | 25,0                       | 62,0                 | 8,0              |
| TC           | 25,0                       | 62,0                 | 8,0              |
| SC           | 25,0                       | 62,0                 | 10,0             |
| TC           | 25,0                       | 62,0                 | 10,0             |
| TC           | 25,0                       | 62,0                 | 12,0             |
| TC           | 25,0                       | 65,0                 | 10,0             |
| TC           | 25,0                       | 66,0                 | 8,5              |
| TC           | 25,0                       | 70,0                 | 10,0             |
| SC           | 25,0                       | 72,0                 | 7,0              |
| TC           | 25,0                       | 72,0                 | 7,0              |
| TC           | 25,0                       | 72,0                 | 8,0              |
| TC           | 25,0                       | 80,0                 | 10,0             |
| SC           | 25,4                       | 31,8                 | 3,2              |
| TC           | 25,4                       | 31,8                 | 6,4              |
| SC           | 25,4                       | 34,9                 | 4,8              |
| SC           | 25,4                       | 34,9                 | 6,4              |
| TC           | 25,4                       | 35,0                 | 5,0              |
| SC           | 25,4                       | 36,5                 | 6,4              |
| TC           | 25,4                       | 36,5                 | 6,4              |
| TC           | 25,4                       | 36,8                 | 5,8              |
| TC           | 25,4                       | 37,0                 | 7,0              |
| TC           | 25,4                       | 37,0                 | 11,2             |
| TC           | 25,4                       | 37,1                 | 5,6              |
| SC           | 25,4                       | 37,3                 | 4,8              |
| TC           | 25,4                       | 38,1                 | 6,4              |
| TC           | 25,4                       | 38,1                 | 4,8              |
| SC           | 25,4                       | 38,1                 | 6,4              |
| TC           | 25,4                       | 38,1                 | 6,4              |
| SC           | 25,4                       | 38,1                 | 9,5              |
| TC           | 25,4                       | 38,1                 | 9,5              |
| TC           | 25,4                       | 40,0                 | 7,0              |
| TC           | 25,4                       | 41,3                 | 6,4              |
| TC           | 25,4                       | 41,3                 | 7,9              |
| SC           | 25,4                       | 41,3                 | 9,5              |
| TC           | 25,4                       | 41,3                 | 9,5              |
| SC           | 25,4                       | 42,9                 | 7,9              |
| TC           | 25,4                       | 44,5                 | 4,8              |
| SC           | 25,4                       | 44,5                 | 6,4              |
| TC           | 25,4                       | 44,5                 | 6,4              |
| SC           | 25,4                       | 44,5                 | 9,5              |
| TC           | 25,4                       | 44,5                 | 9,5              |
| TC           | 25,4                       | 45,3                 | 6,4              |
| TC           | 25,4                       | 46,6                 | 6,4              |
| TC           | 25,4                       | 47,6                 | 6,4              |
| SC           | 25,4                       | 47,6                 | 11,1             |
| TC           | 25,4                       | 50,0                 | 6,4              |
| TC           | 25,4                       | 50,3                 | 6,4              |
| SC           | 25,4                       | 50,8                 | 6,4              |
| TC           | 25,4                       | 50,8                 | 6,4              |
| SC           | 25,4                       | 50,8                 | 9,5              |



51



| Tipo<br>Type | Dimensioni Dimensions (mm)    |                               |               |
|--------------|-------------------------------|-------------------------------|---------------|
|              | Diametro Diameter<br>Internal | Diametro Diameter<br>External | Altezza Width |
| TC           | 30,0                          | 41,0                          | 10,0          |
| SC           | 30,0                          | 42,0                          | 4,5           |
| TC           | 30,0                          | 42,0                          | 4,5           |
| SC           | 30,0                          | 42,0                          | 6,0           |
| SC           | 30,0                          | 42,0                          | 7,0           |
| SC           | 30,0                          | 42,0                          | 7,0           |
| SC           | 30,0                          | 42,0                          | 7,0           |
| TC           | 30,0                          | 42,0                          | 7,0           |
| TC           | 30,0                          | 42,0                          | 7,0           |
| SC           | 30,0                          | 42,0                          | 8,0           |
| TC           | 30,0                          | 42,0                          | 8,0           |
| TC           | 30,0                          | 42,0                          | 10,0          |
| TC           | 30,0                          | 43,0                          | 7,0           |
| TC           | 30,0                          | 43,0                          | 8,0           |
| TC           | 30,0                          | 43,0                          | 8,5           |
| TC           | 30,0                          | 43,0                          | 9,0           |
| TC           | 30,0                          | 44,0                          | 5,0           |
| TC           | 30,0                          | 44,0                          | 7,0           |
| TC           | 30,0                          | 44,0                          | 8,0           |
| SC           | 30,0                          | 44,0                          | 9,0           |
| TC           | 30,0                          | 44,0                          | 9,0           |
| SC           | 30,0                          | 44,0                          | 10,0          |
| TC           | 30,0                          | 44,0                          | 10,0          |
| TC           | 30,0                          | 44,5                          | 7,0           |
| SC           | 30,0                          | 45,0                          | 5,0           |
| SC           | 30,0                          | 45,0                          | 6,0           |
| TC           | 30,0                          | 45,0                          | 6,0           |
| SC           | 30,0                          | 45,0                          | 7,0           |
| TC           | 30,0                          | 45,0                          | 7,0           |
| SC           | 30,0                          | 45,0                          | 8,0           |
| TC           | 30,0                          | 45,0                          | 8,0           |
| TC           | 30,0                          | 45,0                          | 8,0           |
| TC           | 30,0                          | 45,0                          | 9,0           |
| SC           | 30,0                          | 45,0                          | 10,0          |
| TC           | 30,0                          | 45,0                          | 10,0          |
| TC           | 30,0                          | 45,0                          | 12,0          |
| TC           | 30,0                          | 45,0                          | 13,0          |
| TC           | 30,0                          | 46,0                          | 7,0           |
| SC           | 30,0                          | 46,0                          | 8,0           |
| TC           | 30,0                          | 46,0                          | 8,0           |
| TC           | 30,0                          | 46,0                          | 10,0          |
| SC           | 30,0                          | 47,0                          | 5,0           |
| TC           | 30,0                          | 47,0                          | 5,0           |
| SC           | 30,0                          | 47,0                          | 6,0           |
| TC           | 30,0                          | 47,0                          | 6,0           |
| SC           | 30,0                          | 47,0                          | 7,0           |
| SC           | 30,0                          | 47,0                          | 7,0           |
| TC           | 30,0                          | 47,0                          | 7,0           |
| TC           | 30,0                          | 47,0                          | 7,0           |
| TC           | 30,0                          | 47,0                          | 7,0           |
| SC           | 30,0                          | 47,0                          | 8,0           |
| TC           | 30,0                          | 47,0                          | 8,0           |
| SC           | 30,0                          | 47,0                          | 10,0          |
| SC           | 30,0                          | 47,0                          | 10,0          |
| TC           | 30,0                          | 47,0                          | 10,0          |
| SC           | 30,0                          | 48,0                          | 7,0           |
| TC           | 30,0                          | 48,0                          | 7,0           |
| SC           | 30,0                          | 48,0                          | 8,0           |
| TC           | 30,0                          | 48,0                          | 8,0           |
| TC           | 30,0                          | 48,0                          | 10,0          |
| TC           | 30,0                          | 48,0                          | 12,0          |
| TC           | 30,0                          | 48,5                          | 8,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                               |               |
|--------------|-------------------------------|-------------------------------|---------------|
|              | Diametro Diameter<br>Internal | Diametro Diameter<br>External | Altezza Width |
| TC           | 30,0                          | 49,0                          | 8,0           |
| SC           | 30,0                          | 50,0                          | 5,0           |
| TC           | 30,0                          | 50,0                          | 6,0           |
| SC           | 30,0                          | 50,0                          | 7,0           |
| TC           | 30,0                          | 50,0                          | 7,0           |
| SC           | 30,0                          | 50,0                          | 8,0           |
| SC           | 30,0                          | 50,0                          | 8,0           |
| TC           | 30,0                          | 50,0                          | 8,0           |
| SC           | 30,0                          | 50,0                          | 10,0          |
| TC           | 30,0                          | 50,0                          | 10,0          |
| SC           | 30,0                          | 50,0                          | 11,0          |
| TC           | 30,0                          | 50,0                          | 11,0          |
| TC           | 30,0                          | 50,0                          | 11,0          |
| TC           | 30,0                          | 50,0                          | 12,0          |
| SC           | 30,0                          | 50,6                          | 10,0          |
| TC           | 30,0                          | 51,0                          | 10,0          |
| SC           | 30,0                          | 52,0                          | 4,0           |
| SC           | 30,0                          | 52,0                          | 6,0           |
| SC           | 30,0                          | 52,0                          | 7,0           |
| TC           | 30,0                          | 52,0                          | 7,0           |
| SC           | 30,0                          | 52,0                          | 8,0           |
| TC           | 30,0                          | 52,0                          | 8,0           |
| SC           | 30,0                          | 52,0                          | 10,0          |
| TC           | 30,0                          | 52,0                          | 10,0          |
| TC           | 30,0                          | 52,0                          | 11,0          |
| TC           | 30,0                          | 52,0                          | 12,0          |
| TC           | 30,0                          | 54,0                          | 6,0           |
| TC           | 30,0                          | 54,0                          | 9,0           |
| SC           | 30,0                          | 55,0                          | 7,0           |
| TC           | 30,0                          | 55,0                          | 7,0           |
| TC           | 30,0                          | 55,0                          | 8,0           |
| SC           | 30,0                          | 55,0                          | 10,0          |
| TC           | 30,0                          | 55,0                          | 10,0          |
| TC           | 30,0                          | 55,0                          | 11,0          |
| TC           | 30,0                          | 55,0                          | 12,0          |
| TC           | 30,0                          | 56,0                          | 8,0           |
| SC           | 30,0                          | 56,0                          | 10,0          |
| TC           | 30,0                          | 56,0                          | 10,0          |
| SC           | 30,0                          | 56,0                          | 12,0          |
| TC           | 30,0                          | 56,0                          | 12,0          |
| TC           | 30,0                          | 57,0                          | 10,0          |
| TC           | 30,0                          | 58,0                          | 8,0           |
| TC           | 30,0                          | 58,0                          | 10,0          |
| TC           | 30,0                          | 60,0                          | 7,0           |
| TC           | 30,0                          | 60,0                          | 8,0           |
| SC           | 30,0                          | 60,0                          | 10,0          |
| TC           | 30,0                          | 60,0                          | 10,0          |
| TC           | 30,0                          | 60,0                          | 12,0          |
| TC           | 30,0                          | 62,0                          | 4,0           |
| TC           | 30,0                          | 62,0                          | 5,0           |
| SC           | 30,0                          | 62,0                          | 7,0           |
| TC           | 30,0                          | 62,0                          | 7,0           |
| TC           | 30,0                          | 62,0                          | 8,0           |
| TC           | 30,0                          | 62,0                          | 9,0           |
| SC           | 30,0                          | 62,0                          | 10,0          |
| TC           | 30,0                          | 62,0                          | 10,0          |
| TC           | 30,0                          | 62,0                          | 11,0          |
| SC           | 30,0                          | 62,0                          | 12,0          |
| TC           | 30,0                          | 62,0                          | 12,0          |
| TC           | 30,0                          | 65,0                          | 10,0          |
| TC           | 30,0                          | 68,0                          | 6,0           |
| TC           | 30,0                          | 68,0                          | 10,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                               |               |
|--------------|-------------------------------|-------------------------------|---------------|
|              | Diametro Diameter<br>Internal | Diametro Diameter<br>External | Altezza Width |
| TC           | 30,0                          | 68,0                          | 12,0          |
| TC           | 30,0                          | 70,0                          | 10,0          |
| SC           | 30,0                          | 72,0                          | 6,0           |
| TC           | 30,0                          | 72,0                          | 7,0           |
| TC           | 30,0                          | 72,0                          | 8,0           |
| TC           | 30,0                          | 72,0                          | 9,0           |
| SC           | 30,0                          | 72,0                          | 10,0          |
| TC           | 30,0                          | 72,0                          | 10,0          |
| TC           | 30,0                          | 75,0                          | 9,0           |
| TC           | 30,0                          | 75,0                          | 10,0          |
| TC           | 30,0                          | 77,0                          | 9,0           |
| TC           | 30,0                          | 77,0                          | 10,0          |
| TC           | 30,0                          | 80,0                          | 10,0          |
| TC           | 30,0                          | 90,0                          | 7,0           |
| TC           | 30,2                          | 62,0                          | 9,5           |
| SC           | 30,2                          | 42,9                          | 9,5           |
| SC           | 30,2                          | 44,5                          | 4,8           |
| SC           | 30,2                          | 44,5                          | 6,4           |
| SC           | 30,2                          | 44,5                          | 11,1          |
| TC           | 30,2                          | 50,4                          | 6,4           |
| SC           | 30,2                          | 50,8                          | 6,4           |
| TC           | 30,5                          | 52,0                          | 8,0           |
| SC           | 30,9                          | 50,8                          | 11,1          |
| SC           | 31,0                          | 42,0                          | 8,0           |
| TC           | 31,0                          | 42,0                          | 8,0           |
| SC           | 31,0                          | 43,0                          | 5,6           |
| SC           | 31,0                          | 44,2                          | 8,0           |
| SC           | 31,0                          | 44,6                          | 6,0           |
| SC           | 31,0                          | 45,0                          | 6,0           |
| SC           | 31,0                          | 45,0                          | 7,0           |
| TC           | 31,0                          | 45,0                          | 7,0           |
| SC           | 31,0                          | 47,0                          | 7,0           |
| TC           | 31,0                          | 47,0                          | 10,0          |
| TC           | 31,0                          | 49,0                          | 7,0           |
| TC           | 31,0                          | 50,0                          | 7,0           |
| SC           | 31,0                          | 50,0                          | 8,0           |
| TC           | 31,0                          | 50,0                          | 8,0           |
| TC           | 31,0                          | 52,0                          | 6,0           |
| TC           | 31,0                          | 52,0                          | 7,0           |
| SC           | 31,0                          | 62,5                          | 4,3           |
| TC           | 31,8                          | 38,1                          | 4,8           |
| TC           | 31,8                          | 40,0                          | 6,0           |
| TC           | 31,8                          | 40,0                          | 7,0           |
| SC           | 31,8                          | 40,6                          | 3,2           |
| TC           | 31,8                          | 41,1                          | 6,4           |
| TC           | 31,8                          | 42,9                          | 6,4           |
| TC           | 31,8                          | 42,9                          | 7,9           |
| TC           | 31,8                          | 42,9                          | 7,9           |
| TC           | 31,8                          | 43,0                          | 6,4           |
| SC           | 31,8                          | 43,2                          | 6,4           |
| SC           | 31,8                          | 44,5                          | 6,4           |
| TC           | 31,8                          | 44,5                          | 6,4           |
| TC           | 31,8                          | 44,5                          | 10,0          |
| TC           | 31,8                          | 46,0                          | 9,5           |
| TC           | 31,8                          | 46,4                          | 9,5           |
| SC           | 31,8                          | 47,6                          | 6,4           |
| TC           | 31,8                          | 47,6                          | 6,4           |
| SC           | 31,8                          | 47,6                          | 7,9           |
| SC           | 31,8                          | 49,2                          | 11,1          |
| TC           | 31,8                          | 49,3                          | 11,2          |
| TC           | 31,8                          | 50,8                          | 6,4           |
| SC           | 31,8                          | 50,8                          | 7,9           |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                               |               |
|--------------|-------------------------------|-------------------------------|---------------|
|              | Diametro Diameter<br>Internal | Diametro Diameter<br>External | Altezza Width |
| TC           | 31,8                          | 50,8                          | 7,9           |
| SC           | 31,8                          | 50,8                          | 9,5           |
| TC           | 31,8                          | 50,8                          | 11,1          |
| SC           | 31,8                          | 50,8                          | 12,7          |
| TC           | 31,8                          | 50,8                          | 12,7          |
| SC           | 31,8                          | 52,4                          | 6,4           |
| TC           | 31,8                          | 52,4                          | 6,4           |
| TC           | 31,8                          | 56,9                          | 6,4           |
| TC           | 31,8                          | 57,2                          | 9,5           |
| TC           | 31,8                          | 57,2                          | 12,7          |
| TC           | 31,8                          | 59,1                          | 11,1          |
| SC           | 31,8                          | 60,3                          | 9,5           |
| SC           | 31,8                          | 61,9                          | 7,9           |
| TC           | 31,8                          | 61,9                          | 9,5           |
| TC           | 31,8                          | 62,0                          | 7,9           |
| TC           | 31,8                          | 62,0                          | 6,4           |
| TC           | 31,8                          | 62,0                          | 7,0           |
| TC           | 31,8                          | 62,0                          | 9,5           |
| SC           | 31,8                          | 63,5                          | 9,5           |
| TC           | 31,8                          | 72,0                          | 9,5           |
| TC           | 31,8                          | 40,0                          | 8,0           |
| SC           | 32,0                          | 40,0                          | 7,0           |
| TC           | 32,0                          | 40,0                          | 7,0           |
| TC           | 32,0                          | 40,0                          | 10,0          |
| TC           | 32,0                          | 41,0                          | 7,0           |
| TC           | 32,0                          | 42,0                          | 6,0           |
| SC           | 32,0                          | 42,0                          | 7,0           |
| TC           | 32,0                          | 42,0                          | 7,0           |
| TC           | 32,0                          | 42,0                          | 8,0           |
| TC           | 32,0                          | 42,0                          | 10,0          |
| TC           | 32,0                          | 43,0                          | 7,0           |
| TC           | 32,0                          | 43,0                          | 10,0          |
| TC           | 32,0                          | 44,0                          | 5,0           |
| TC           | 32,0                          | 44,0                          | 6,0           |
| TC           | 32,0                          | 44,0                          | 7,0           |
| TC           | 32,0                          | 44,0                          | 8,0           |
| TC           | 32,0                          | 44,0                          | 8,0           |
| TC           | 32,0                          | 44,0                          | 9,0           |
| SC           | 32,0                          | 44,0                          | 10,0          |
| TC           | 32,0                          | 44,0                          | 10,0          |
| TC           | 32,0                          | 44,5                          | 8,0           |
| TC           | 32,0                          | 44,5                          | 10,0          |
| SC           | 32,0                          | 45,0                          | 5,0           |
| SC           | 32,0                          | 45,0                          | 6,0           |
| TC           | 32,0                          | 45,0                          | 6,0           |
| TC           | 32,0                          | 45,0                          | 6,5           |
| SC           | 32,0                          | 45,0                          | 7,0           |
| TC           | 32,0                          | 45,0                          | 7,0           |
| TC           | 32,0                          | 45,0                          | 8,0           |
| SC           | 32,0                          | 45,0                          | 10,0          |
| TC           | 32,0                          | 45,0                          | 10,0          |
| TC           | 32,0                          | 45,2                          | 7,0           |
| TC           | 32,0                          | 46,0                          | 6,0           |
| SC           | 32,0                          | 46,0                          | 7,0           |
| TC           | 32,0                          | 46,0                          | 7,0           |
| TC           | 32,0                          | 46,0                          | 8,0           |
| TC           | 32,0                          | 47,0                          | 6,0           |
| SC           | 32,0                          | 47,0                          | 7,0           |
| TC           | 32,0                          | 47,0                          | 7,0           |
| TC           | 32,0                          | 47,0                          | 8,0           |
| TC           | 32,0                          | 47,0                          | 10,0          |
| TC           | 32,0                          | 48,0                          | 7,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                  |               |
|--------------|-------------------------------|------------------|---------------|
|              | Diametro Diameter<br>Internal | Esterno External | Altezza Width |
| SC           | 32,0                          | 48,0             | 8,0           |
| TC           | 32,0                          | 48,0             | 8,0           |
| TC           | 32,0                          | 48,0             | 10,0          |
| TC           | 32,0                          | 50,0             | 7,0           |
| SC           | 32,0                          | 50,0             | 8,0           |
| TC           | 32,0                          | 50,0             | 8,0           |
| TC           | 32,0                          | 50,0             | 10,0          |
| TC           | 32,0                          | 50,0             | 11,0          |
| SC           | 32,0                          | 52,0             | 5,0           |
| TC           | 32,0                          | 52,0             | 5,0           |
| SC           | 32,0                          | 52,0             | 7,0           |
| TC           | 32,0                          | 52,0             | 7,0           |
| TC           | 32,0                          | 52,0             | 8,0           |
| TC           | 32,0                          | 52,0             | 9,0           |
| SC           | 32,0                          | 52,0             | 10,0          |
| TC           | 32,0                          | 52,0             | 10,0          |
| TC           | 32,0                          | 52,0             | 11,0          |
| TC           | 32,0                          | 52,0             | 12,0          |
| TC           | 32,0                          | 53,0             | 7,0           |
| TC           | 32,0                          | 54,0             | 7,0           |
| TC           | 32,0                          | 54,0             | 8,0           |
| TC           | 32,0                          | 54,0             | 10,0          |
| TC           | 32,0                          | 55,0             | 6,5           |
| TC           | 32,0                          | 55,0             | 7,0           |
| TC           | 32,0                          | 55,0             | 8,0           |
| TC           | 32,0                          | 55,0             | 9,0           |
| TC           | 32,0                          | 55,0             | 10,0          |
| TC           | 32,0                          | 55,0             | 11,0          |
| TC           | 32,0                          | 55,0             | 15,0          |
| TC           | 32,0                          | 56,0             | 8,0           |
| TC           | 32,0                          | 56,0             | 10,0          |
| TC           | 32,0                          | 56,0             | 12,0          |
| TC           | 32,0                          | 57,0             | 7,0           |
| TC           | 32,0                          | 58,0             | 8,0           |
| TC           | 32,0                          | 58,0             | 10,0          |
| TC           | 32,0                          | 58,0             | 12,0          |
| TC           | 32,0                          | 60,0             | 8,0           |
| TC           | 32,0                          | 60,0             | 10,0          |
| SC           | 32,0                          | 62,0             | 6,0           |
| TC           | 32,0                          | 62,0             | 7,0           |
| TC           | 32,0                          | 62,0             | 8,0           |
| TC           | 32,0                          | 62,0             | 10,0          |
| TC           | 32,0                          | 62,0             | 12,0          |
| TC           | 32,0                          | 65,0             | 7,5           |
| TC           | 32,0                          | 65,0             | 8,0           |
| TC           | 32,0                          | 65,0             | 10,0          |
| TC           | 32,0                          | 68,0             | 8,0           |
| TC           | 32,0                          | 70,0             | 8,0           |
| TC           | 32,0                          | 70,0             | 10,0          |
| TC           | 32,0                          | 70,0             | 11,0          |
| TC           | 32,0                          | 72,0             | 8,0           |
| SC           | 32,0                          | 72,0             | 10,0          |
| TC           | 32,0                          | 72,0             | 10,0          |
| TC           | 32,0                          | 73,0             | 10,0          |
| TC           | 32,0                          | 80,0             | 12,0          |
| TC           | 32,5                          | 43,0             | 7,0           |
| TC           | 32,5                          | 49,2             | 12,7          |
| TC           | 33,0                          | 43,0             | 7,0           |
| TC           | 33,0                          | 44,0             | 7,0           |
| TC           | 33,0                          | 44,0             | 8,0           |
| SC           | 33,0                          | 45,0             | 7,0           |
| TC           | 33,0                          | 45,0             | 8,0           |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 33,0                       | 45,0             | 10,0          |
| TC           | 33,0                       | 46,0             | 7,0           |
| TC           | 33,0                       | 47,0             | 8,0           |
| TC           | 33,0                       | 47,3             | 7,0           |
| TC           | 33,0                       | 48,0             | 6,0           |
| TC           | 33,0                       | 48,0             | 8,0           |
| SC           | 33,0                       | 50,0             | 6,0           |
| TC           | 33,0                       | 50,0             | 6,0           |
| TC           | 33,0                       | 50,0             | 7,0           |
| SC           | 33,0                       | 50,0             | 10,0          |
| TC           | 33,0                       | 50,0             | 10,0          |
| TC           | 33,0                       | 52,0             | 5,0           |
| SC           | 33,0                       | 52,0             | 6,0           |
| SC           | 33,0                       | 52,0             | 8,0           |
| TC           | 33,0                       | 52,0             | 10,0          |
| SC           | 33,0                       | 54,0             | 6,5           |
| TC           | 33,0                       | 55,0             | 10,0          |
| TC           | 33,0                       | 56,0             | 10,0          |
| TC           | 33,0                       | 56,0             | 12,0          |
| TC           | 33,0                       | 62,0             | 7,0           |
| TC           | 33,0                       | 62,0             | 12,0          |
| TC           | 33,0                       | 65,0             | 8,0           |
| SC           | 33,0                       | 66,0             | 12,0          |
| TC           | 33,0                       | 72,0             | 10,0          |
| TC           | 33,3                       | 46,0             | 8,6           |
| SC           | 33,3                       | 46,7             | 4,8           |
| SC           | 33,3                       | 47,6             | 6,4           |
| SC           | 33,3                       | 49,2             | 4,8           |
| TC           | 33,3                       | 49,2             | 9,5           |
| TC           | 33,3                       | 50,8             | 7,9           |
| TC           | 33,3                       | 50,8             | 9,5           |
| SC           | 33,3                       | 54,0             | 9,5           |
| SC           | 33,3                       | 57,2             | 9,5           |
| TC           | 34,0                       | 41,0             | 7,0           |
| TC           | 34,0                       | 42,0             | 5,0           |
| TC           | 34,0                       | 44,0             | 7,0           |
| TC           | 34,0                       | 44,0             | 8,0           |
| TC           | 34,0                       | 45,0             | 6,0           |
| TC           | 34,0                       | 45,0             | 8,0           |
| TC           | 34,0                       | 46,0             | 8,0           |
| TC           | 34,0                       | 46,0             | 10,0          |
| SC           | 34,0                       | 46,4             | 6,4           |
| TC           | 34,0                       | 47,0             | 8,0           |
| TC           | 34,0                       | 47,0             | 9,0           |
| TC           | 34,0                       | 48,0             | 7,0           |
| SC           | 34,0                       | 48,0             | 7,5           |
| TC           | 34,0                       | 48,0             | 8,0           |
| TC           | 34,0                       | 50,0             | 7,0           |
| TC           | 34,0                       | 50,0             | 8,0           |
| TC           | 34,0                       | 50,0             | 10,0          |
| TC           | 34,0                       | 50,0             | 12,0          |
| TC           | 34,0                       | 52,0             | 6,0           |
| TC           | 34,0                       | 52,0             | 7,0           |
| SC           | 34,0                       | 52,0             | 7,5           |
| SC           | 34,0                       | 52,0             | 8,0           |
| TC           | 34,0                       | 52,0             | 8,0           |
| TC           | 34,0                       | 52,0             | 10,0          |
| TC           | 34,0                       | 52,0             | 11,0          |
| TC           | 34,0                       | 53,0             | 8,0           |
| TC           | 34,0                       | 54,0             | 8,0           |
| TC           | 34,0                       | 54,0             | 10,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 34,0                       | 55,0             | 9,0           |
| TC           | 34,0                       | 55,0             | 11,0          |
| TC           | 34,0                       | 56,0             | 8,0           |
| TC           | 34,0                       | 56,0             | 10,0          |
| TC           | 34,0                       | 58,0             | 6,0           |
| TC           | 34,0                       | 58,0             | 10,0          |
| TC           | 34,0                       | 60,0             | 12,0          |
| TC           | 34,0                       | 62,0             | 6,0           |
| TC           | 34,0                       | 62,0             | 7,0           |
| TC           | 34,0                       | 62,0             | 8,0           |
| SC           | 34,0                       | 62,0             | 10,0          |
| TC           | 34,0                       | 62,0             | 10,0          |
| TC           | 34,0                       | 62,0             | 14,0          |
| TC           | 34,0                       | 65,0             | 9,0           |
| TC           | 34,0                       | 70,0             | 10,0          |
| TC           | 34,0                       | 72,0             | 10,0          |
| TC           | 34,5                       | 52,0             | 11,0          |
| TC           | 34,5                       | 72,0             | 11,5          |
| SC           | 34,5                       | 44,5             | 5,0           |
| SC           | 34,6                       | 57,0             | 6,1           |
| TC           | 34,9                       | 55,0             | 15,0          |
| TC           | 34,9                       | 44,5             | 5,6           |
| SC           | 34,9                       | 44,5             | 6,4           |
| TC           | 34,9                       | 44,5             | 6,4           |
| TC           | 34,9                       | 46,0             | 6,4           |
| TC           | 34,9                       | 46,4             | 6,4           |
| TC           | 34,9                       | 47,0             | 6,4           |
| SC           | 34,9                       | 47,6             | 6,4           |
| SC           | 34,9                       | 47,6             | 7,9           |
| TC           | 34,9                       | 47,6             | 7,9           |
| TC           | 34,9                       | 47,6             | 9,5           |
| TC           | 34,9                       | 50,3             | 7,9           |
| TC           | 34,9                       | 50,8             | 6,4           |
| SC           | 34,9                       | 50,8             | 7,9           |
| TC           | 34,9                       | 50,8             | 7,9           |
| SC           | 34,9                       | 50,8             | 9,5           |
| TC           | 34,9                       | 50,8             | 11,1          |
| SC           | 34,9                       | 50,8             | 12,7          |
| TC           | 34,9                       | 52,4             | 7,9           |
| SC           | 34,9                       | 52,4             | 9,5           |
| TC           | 34,9                       | 54,0             | 7,9           |
| SC           | 34,9                       | 54,0             | 8,0           |
| SC           | 34,9                       | 54,0             | 9,5           |
| SC           | 34,9                       | 54,0             | 11,1          |
| SC           | 34,9                       | 54,2             | 7,9           |
| SC           | 34,9                       | 55,6             | 6,3           |
| TC           | 34,9                       | 55,6             | 12,7          |
| TC           | 34,9                       | 57,2             | 7,9           |
| TC           | 34,9                       | 57,2             | 12,7          |
| SC           | 34,9                       | 57,9             | 9,5           |
| SC           | 34,9                       | 58,7             | 11,1          |
| TC           | 34,9                       | 60,3             | 7,9           |
| TC           | 34,9                       | 60,3             | 9,5           |
| TC           | 34,9                       | 62,0             | 6,4           |
| TC           | 34,9                       | 62,0             | 9,5           |
| SC           | 34,9                       | 63,5             | 9,5           |
| SC           | 34,9                       | 63,5             | 9,5           |
| TC           | 34,9                       | 69,0             | 9,5           |
| SC           | 34,9                       | 69,9             | 12,7          |
| TC           | 34,9                       | 72,0             | 9,5           |
| TC           | 34,9                       | 80,0             | 9,5           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| SC           | 34,9                       | 80,2             | 9,5           |
| SC           | 35,0                       | 42,0             | 4,0           |
| TC           | 35,0                       | 42,0             | 6,0           |
| TC           | 35,0                       | 42,0             | 8,0           |
| TC           | 35,0                       | 43,0             | 6,0           |
| SC           | 35,0                       | 44,0             | 4,0           |
| TC           | 35,0                       | 44,0             | 7,0           |
| SC           | 35,0                       | 45,0             | 4,0           |
| SC           | 35,0                       | 45,0             | 5,0           |
| SC           | 35,0                       | 45,0             | 6,0           |
| TC           | 35,0                       | 45,0             | 6,0           |
| SC           | 35,0                       | 45,0             | 7,0           |
| TC           | 35,0                       | 45,0             | 7,0           |
| TC           | 35,0                       | 45,0             | 8,0           |
| TC           | 35,0                       | 45,0             | 10,0          |
| TC           | 35,0                       | 45,0             | 12,0          |
| SC           | 35,0                       | 45,2             | 7,0           |
| SC           | 35,0                       | 46,0             | 7,0           |
| TC           | 35,0                       | 46,0             | 10,0          |
| TC           | 35,0                       | 46,5             | 8,0           |
| SC           | 35,0                       | 47,0             | 5,0           |
| TC           | 35,0                       | 47,0             | 5,0           |
| SC           | 35,0                       | 47,0             | 7,0           |
| SC           | 35,0                       | 47,0             | 7,0           |
| SC           | 35,0                       | 47,0             | 7,0           |
| TC           | 35,0                       | 47,0             | 7,0           |
| TC           | 35,0                       | 47,0             | 7,5           |
| TC           | 35,0                       | 47,0             | 8,0           |
| SC           | 35,0                       | 47,0             | 9,0           |
| SC           | 35,0                       | 47,0             | 10,0          |
| TC           | 35,0                       | 47,0             | 10,0          |
| TC           | 35,0                       | 47,0             | 12,0          |
| TC           | 35,0                       | 48,0             | 7,0           |
| TC           | 35,0                       | 48,0             | 8,0           |
| TC           | 35,0                       | 48,0             | 8,0           |
| TC           | 35,0                       | 48,0             | 9,0           |
| TC           | 35,0                       | 48,0             | 10,0          |
| TC           | 35,0                       | 49,0             | 6,0           |
| TC           | 35,0                       | 49,0             | 8,0           |
| TC           | 35,0                       | 49,5             | 10,0          |
| SC           | 35,0                       | 50,0             | 5,0           |
| TC           | 35,0                       | 50,0             | 5,0           |
| TC           | 35,0                       | 50,0             | 6,0           |
| SC           | 35,0                       | 50,0             | 7,0           |
| TC           | 35,0                       | 50,0             | 7,0           |
| SC           | 35,0                       | 50,0             | 8,0           |
| TC           | 35,0                       | 50,0             | 8,0           |
| TC           | 35,0                       | 50,0             | 9,0           |
| SC           | 35,0                       | 50,0             | 10,0          |
| TC           | 35,0                       | 50,0             | 10,0          |
| TC           | 35,0                       | 50,0             | 11,0          |
| SC           | 35,0                       | 50,0             | 12,0          |
| TC           | 35,0                       | 51,0             | 7,0           |
| TC           | 35,0                       | 51,0             | 8,0           |
| TC           | 35,0                       | 51,0             | 10,0          |
| TC           | 35,0                       | 52,0             | 5,0           |
| SC           | 35,0                       | 52,0             | 6,0           |
| TC           | 35,0                       | 52,0             | 6,0           |
| SC           | 35,0                       | 52,0             | 7,0           |
| TC           | 35,0                       | 52,0             | 7,0           |
| SC           | 35,0                       | 52,0             | 8,0           |
| TC           | 35,0                       | 52,0             | 11,0          |
| TC           | 35,0                       | 62,0             | 12,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 35,0                       | 52,0             | 8,0           |
| TC           | 35,0                       | 52,0             | 9,0           |
| SC           | 35,0                       | 52,0             | 10,0          |
| TC           | 35,0                       | 52,0             | 10,0          |
| TC           | 35,0                       | 52,0             | 11,0          |
| TC           | 35,0                       | 52,0             | 12,0          |
| TC           | 35,0                       | 52,3             | 9,5           |
| SC           | 35,0                       | 53,0             | 7,0           |
| TC           | 35,0                       | 53,0             | 7,0           |
| TC           | 35,0                       | 54,0             | 6,0           |
| TC           | 35,0                       | 54,0             | 8,0           |
| TC           | 35,0                       | 54,0             | 10,0          |
| TC           | 35,0                       | 54,0             | 12,0          |
| TC           | 35,0                       | 55,0             | 7,0           |
| SC           | 35,0                       | 55,0             | 8,0           |
| TC           | 35,0                       | 55,0             | 8,0           |
| TC           | 35,0                       | 55,0             | 9,0           |
| SC           | 35,0                       | 55,0             | 10,0          |
| TC           | 35,0                       | 55,0             | 10,0          |
| TC           | 35,0                       | 55,0             | 11,0          |
| TC           | 35,0                       | 55,0             | 12,0          |
| SC           | 35,0                       | 56,0             | 5,8           |
| SC           | 35,0                       | 56,0             | 8,0           |
| TC           | 35,0                       | 56,0             | 8,0           |
| SC           | 35,0                       | 56,0             | 10,0          |
| TC           | 35,0                       | 56,0             | 10,0          |
| SC           | 35,0                       | 56,0             | 12,0          |
| TC           | 35,0                       | 56,0             | 12,0          |
| TC           | 35,0                       | 56,0             | 12,0          |
| SC           | 35,0                       | 57,0             | 6,0           |
| TC           | 35,0                       | 57,0             | 9,0           |
| TC           | 35,0                       | 57,0             | 10,0          |
| TC           | 35,0                       | 58,0             | 6,0           |
| SC           | 35,0                       | 58,0             | 9,0           |
| TC           | 35,0                       | 58,0             | 9,0           |
| SC           | 35,0                       | 58,0             | 10,0          |
| TC           | 35,0                       | 58,0             | 10,0          |
| TC           | 35,0                       | 58,0             | 12,0          |
| TC           | 35,0                       | 58,0             | 13,0          |
| TC           | 35,0                       | 58,0             | 18,0          |
| TC           | 35,0                       | 59,0             | 12,0          |
| TC           | 35,0                       | 60,0             | 7,0           |
| SC           | 35,0                       | 60,0             | 8,0           |
| TC           | 35,0                       | 60,0             | 8,0           |
| SC           | 35,0                       | 60,0             | 10,0          |
| TC           | 35,0                       | 60,0             | 10,0          |
| TC           | 35,0                       | 60,0             | 11,0          |
| TC           | 35,0                       | 60,0             | 12,0          |
| TC           | 35,0                       | 62,0             | 6,0           |
| TC           | 35,0                       | 62,0             | 6,0           |
| SC           | 35,0                       | 62,0             | 7,0           |
| SC           | 35,0                       | 62,0             | 7,0           |
| SC           | 35,0                       | 62,0             | 7,0           |
| TC           | 35,0                       | 62,0             | 7,0           |
| SC           | 35,0                       | 62,0             | 8,0           |
| TC           | 35,0                       | 62,0             | 8,0           |
| TC           | 35,0                       | 62,0             | 8,0           |
| TC           | 35,0                       | 62,0             | 9,5           |
| SC           | 35,0                       | 62,0             | 10,0          |
| TC           | 35,0                       | 62,0             | 10,0          |
| TC           | 35,0                       | 62,0             | 10,0          |
| TC           | 35,0                       | 62,0             | 11,0          |
| TC           | 35,0                       | 62,0             | 12,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| SC           | 35,0                       | 63,5             | 7,9           |
| TC           | 35,0                       | 63,5             | 12,0          |
| TC           | 35,0                       | 64,0             | 10,0          |
| TC           | 35,0                       | 64,0             | 12,0          |
| TC           | 35,0                       | 64,0             | 13,0          |
| TC           | 35,0                       | 65,0             | 7,0           |
| SC           | 35,0                       | 65,0             | 10,0          |
| TC           | 35,0                       | 65,0             | 10,0          |
| TC           | 35,0                       | 65,0             | 12,0          |
| TC           | 35,0                       | 67,0             | 12,0          |
| SC           | 35,0                       | 68,0             | 6,0           |
| TC           | 35,0                       | 68,0             | 6,0           |
| SC           | 35,0                       | 68,0             | 8,0           |
| TC           | 35,0                       | 68,0             | 8,0           |
| SC           | 35,0                       | 68,0             | 10,0          |
| TC           | 35,0                       | 68,0             | 10,0          |
| SC           | 35,0                       | 68,0             | 12,0          |
| TC           | 35,0                       | 70,0             | 10,0          |
| TC           | 35,0                       | 70,0             | 12,0          |
| SC           | 35,0                       | 72,0             | 7,0           |
| TC           | 35,0                       | 72,0             | 7,0           |
| TC           | 35,0                       | 72,0             | 8,0           |
| SC           | 35,0                       | 72,0             | 10,0          |
| TC           | 35,0                       | 72,0             | 10,0          |
| TC           | 35,0                       | 72,0             | 11,0          |
| SC           | 35,0                       | 72,0             | 12,0          |
| TC           | 35,0                       | 72,0             | 12,0          |
| TC           | 35,0                       | 75,0             | 7,0           |
| TC           | 35,0                       | 75,0             | 8,0           |
| TC           | 35,0                       | 75,0             | 10,0          |
| TC           | 35,0                       | 75,0             | 12,0          |
| TC           | 35,0                       | 78,0             | 8,0           |
| TC           | 35,0                       | 80,0             | 6,0           |
| SC           | 35,0                       | 80,0             | 8,0           |
| TC           | 35,0                       | 80,0             | 8,0           |
| SC           | 35,0                       | 80,0             | 10,0          |
| TC           | 35,0                       | 80,0             | 10,0          |
| SC           | 35,0                       | 80,0             | 12,0          |
| TC           | 35,0                       | 80,0             | 12,0          |
| SC           | 35,0                       | 80,0             | 13,0          |
| TC           | 35,0                       | 80,0             | 13,0          |
| SC           | 35,0                       | 82,0             | 6,0           |
| TC           | 35,0                       | 82,0             | 7,0           |
| TC           | 35,0                       | 82,0             | 10,0          |
| TC           | 35,0                       | 90,0             | 13,0          |
| TC           | 35,9                       | 52,4             | 7,9           |
| TC           | 36,0                       | 44,0             | 5,0           |
| TC           | 36,0                       | 45,0             | 7,0           |
| TC           | 36,0                       | 46,0             | 6,0           |
| TC           | 36,0                       | 46,0             | 7,0           |
| TC           | 36,0                       | 46,0             | 9,0           |
| SC           | 36,0                       | 47,0             | 7,0           |
| TC           | 36,0                       | 47,0             | 7,            |





| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| SC           | 40,0                       | 56,0             | 12,0          |
| TC           | 40,0                       | 56,0             | 12,0          |
| TC           | 40,0                       | 57,0             | 7,0           |
| TC           | 40,0                       | 57,0             | 10,0          |
| TC           | 40,0                       | 57,2             | 10,0          |
| SC           | 40,0                       | 58,0             | 6,0           |
| TC           | 40,0                       | 58,0             | 6,0           |
| TC           | 40,0                       | 58,0             | 6,6           |
| SC           | 40,0                       | 58,0             | 8,0           |
| TC           | 40,0                       | 58,0             | 8,0           |
| SC           | 40,0                       | 58,0             | 9,0           |
| SC           | 40,0                       | 58,0             | 10,0          |
| TC           | 40,0                       | 58,0             | 10,0          |
| SC           | 40,0                       | 58,0             | 12,0          |
| TC           | 40,0                       | 58,0             | 12,0          |
| TC           | 40,0                       | 59,0             | 10,0          |
| TC           | 40,0                       | 59,9             | 5,5           |
| TC           | 40,0                       | 60,0             | 6,0           |
| SC           | 40,0                       | 60,0             | 7,0           |
| TC           | 40,0                       | 60,0             | 7,0           |
| SC           | 40,0                       | 60,0             | 8,0           |
| TC           | 40,0                       | 60,0             | 8,0           |
| SC           | 40,0                       | 60,0             | 10,0          |
| TC           | 40,0                       | 60,0             | 10,0          |
| SC           | 40,0                       | 60,0             | 12,0          |
| TC           | 40,0                       | 60,0             | 12,0          |
| SC           | 40,0                       | 62,0             | 7,0           |
| TC           | 40,0                       | 62,0             | 7,0           |
| SC           | 40,0                       | 62,0             | 8,0           |
| TC           | 40,0                       | 62,0             | 8,0           |
| TC           | 40,0                       | 62,0             | 9,0           |
| SC           | 40,0                       | 62,0             | 10,0          |
| TC           | 40,0                       | 62,0             | 10,0          |
| TC           | 40,0                       | 62,0             | 11,0          |
| SC           | 40,0                       | 62,0             | 11,5          |
| TC           | 40,0                       | 62,0             | 11,5          |
| SC           | 40,0                       | 62,0             | 12,0          |
| TC           | 40,0                       | 62,0             | 12,0          |
| TC           | 40,0                       | 62,5             | 11,0          |
| TC           | 40,0                       | 63,0             | 7,0           |
| TC           | 40,0                       | 63,5             | 10,0          |
| TC           | 40,0                       | 64,0             | 4,0           |
| TC           | 40,0                       | 64,0             | 10,0          |
| TC           | 40,0                       | 64,0             | 12,0          |
| TC           | 40,0                       | 65,0             | 7,0           |
| TC           | 40,0                       | 65,0             | 8,0           |
| SC           | 40,0                       | 65,0             | 10,0          |
| TC           | 40,0                       | 65,0             | 10,0          |
| TC           | 40,0                       | 65,0             | 12,0          |
| TC           | 40,0                       | 67,0             | 12,0          |
| TC           | 40,0                       | 68,0             | 5,0           |
| SC           | 40,0                       | 68,0             | 7,0           |
| TC           | 40,0                       | 68,0             | 7,0           |
| SC           | 40,0                       | 68,0             | 8,0           |
| TC           | 40,0                       | 68,0             | 8,0           |
| SC           | 40,0                       | 68,0             | 10,0          |
| TC           | 40,0                       | 68,0             | 10,0          |
| SC           | 40,0                       | 68,0             | 12,0          |
| TC           | 40,0                       | 68,0             | 12,0          |
| TC           | 40,0                       | 70,0             | 8,0           |
| SC           | 40,0                       | 70,0             | 10,0          |
| TC           | 40,0                       | 70,0             | 10,0          |





| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 40,0                       | 70,0             | 12,0          |
| SC           | 40,0                       | 72,0             | 7,0           |
| TC           | 40,0                       | 72,0             | 7,0           |
| TC           | 40,0                       | 72,0             | 8,0           |
| SC           | 40,0                       | 72,0             | 10,0          |
| TC           | 40,0                       | 72,0             | 10,0          |
| TC           | 40,0                       | 72,0             | 12,0          |
| TC           | 40,0                       | 74,0             | 10,0          |
| SC           | 40,0                       | 75,0             | 7,0           |
| TC           | 40,0                       | 75,0             | 10,0          |
| TC           | 40,0                       | 75,0             | 12,0          |
| TC           | 40,0                       | 75,0             | 13,0          |
| TC           | 40,0                       | 76,0             | 8,0           |
| TC           | 40,0                       | 78,0             | 7,0           |
| SC           | 40,0                       | 80,0             | 7,0           |
| TC           | 40,0                       | 80,0             | 7,0           |
| SC           | 40,0                       | 80,0             | 8,0           |
| TC           | 40,0                       | 80,0             | 8,0           |
| SC           | 40,0                       | 80,0             | 10,0          |
| TC           | 40,0                       | 80,0             | 10,0          |
| TC           | 40,0                       | 80,0             | 12,0          |
| SC           | 40,0                       | 80,0             | 13,0          |
| TC           | 40,0                       | 80,5             | 10,0          |
| SC           | 40,0                       | 85,0             | 10,0          |
| TC           | 40,0                       | 85,0             | 10,0          |
| TC           | 40,0                       | 85,0             | 12,0          |
| TC           | 40,0                       | 85,0             | 12,0          |
| SC           | 40,0                       | 88,0             | 6,0           |
| SC           | 40,0                       | 90,0             | 8,0           |
| TC           | 40,0                       | 90,0             | 8,0           |
| SC           | 40,0                       | 90,0             | 10,0          |
| TC           | 40,0                       | 90,0             | 10,0          |
| SC           | 40,0                       | 90,0             | 12,0          |
| TC           | 40,0                       | 90,0             | 12,0          |
| TC           | 40,0                       | 110,0            | 10,0          |
| TC           | 40,5                       | 58,0             | 8,0           |
| SC           | 40,9                       | 50,8             | 5,5           |
| TC           | 41,0                       | 51,0             | 5,0           |
| TC           | 41,0                       | 53,0             | 7,0           |
| TC           | 41,0                       | 54,0             | 7,0           |
| TC           | 41,0                       | 55,0             | 7,0           |
| TC           | 41,0                       | 55,7             | 9,0           |
| SC           | 41,0                       | 56,0             | 7,0           |
| TC           | 41,0                       | 56,0             | 7,0           |
| TC           | 41,0                       | 62,0             | 8,0           |
| TC           | 41,0                       | 64,0             | 10,0          |
| SC           | 41,3                       | 50,8             | 5,6           |
| TC           | 41,3                       | 50,8             | 6,4           |
| SC           | 41,3                       | 54,0             | 6,4           |
| TC           | 41,3                       | 55,6             | 9,5           |
| TC           | 41,3                       | 60,3             | 9,5           |
| TC           | 41,3                       | 62,0             | 9,5           |
| SC           | 41,3                       | 63,5             | 7,9           |
| TC           | 41,3                       | 63,6             | 7,9           |
| SC           | 41,3                       | 63,6             | 11,9          |
| TC           | 41,3                       | 66,7             | 9,5           |
| TC           | 41,7                       | 55,0             | 7,0           |
| TC           | 41,7                       | 55,0             | 10,0          |
| TC           | 42,0                       | 54,0             | 6,3           |
| TC           | 42,0                       | 50,0             | 6,0           |
| TC           | 42,0                       | 50,0             | 7,0           |
| TC           | 42,0                       | 50,0             | 10,0          |
| TC           | 42,0                       | 51,0             | 7,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 42,0                       | 52,0             | 4,0           |
| TC           | 42,0                       | 52,0             | 6,0           |
| SC           | 42,0                       | 52,0             | 7,0           |
| TC           | 42,0                       | 52,0             | 7,0           |
| TC           | 42,0                       | 52,0             | 8,0           |
| TC           | 42,0                       | 52,0             | 10,0          |
| TC           | 42,0                       | 52,0             | 12,0          |
| TC           | 42,0                       | 54,0             | 7,0           |
| TC           | 42,0                       | 55,0             | 6,0           |
| SC           | 42,0                       | 55,0             | 7,0           |
| TC           | 42,0                       | 55,0             | 7,0           |
| SC           | 42,0                       | 55,0             | 8,0           |
| TC           | 42,0                       | 55,0             | 8,0           |
| TC           | 42,0                       | 55,0             | 9,0           |
| TC           | 42,0                       | 55,0             | 10,0          |
| TC           | 42,0                       | 56,0             | 6,0           |
| SC           | 42,0                       | 56,0             | 7,0           |
| TC           | 42,0                       | 56,0             | 7,0           |
| TC           | 42,0                       | 56,0             | 7,0           |
| TC           | 42,0                       | 56,0             | 10,0          |
| TC           | 42,0                       | 57,0             | 7,0           |
| TC           | 42,0                       | 58,0             | 7,0           |
| TC           | 42,0                       | 58,0             | 8,0           |
| SC           | 42,0                       | 58,0             | 10,0          |
| TC           | 42,0                       | 58,0             | 10,0          |
| TC           | 42,0                       | 58,0             | 10,0          |
| TC           | 42,0                       | 58,0             | 12,0          |
| TC           | 42,0                       | 60,0             | 6,0           |
| TC           | 42,0                       | 60,0             | 7,0           |
| TC           | 42,0                       | 60,0             | 8,0           |
| TC           | 42,0                       | 60,0             | 9,0           |
| SC           | 42,0                       | 60,0             | 10,0          |
| TC           | 42,0                       | 60,0             | 10,0          |
| SC           | 42,0                       | 60,0             | 12,0          |
| TC           | 42,0                       | 60,0             | 12,0          |
| SC           | 42,0                       | 62,0             | 6,0           |
| SC           | 42,0                       | 62,0             | 7,0           |
| TC           | 42,0                       | 62,0             | 7,0           |
| SC           | 42,0                       | 62,0             | 8,0           |
| TC           | 42,0                       | 62,0             | 8,0           |
| TC           | 42,0                       | 62,0             | 9,0           |
| SC           | 42,0                       | 62,0             | 10,0          |
| TC           | 42,0                       | 62,0             | 10,0          |
| TC           | 42,0                       | 62,0             | 10,0          |
| TC           | 42,0                       | 62,0             | 12,0          |
| TC           | 42,0                       | 63,0             | 7,0           |
| SC           | 42,0                       | 64,0             | 7,0           |
| TC           | 42,0                       | 64,0             | 8,0           |
| TC           | 42,0                       | 64,0             | 10,0          |
| TC           | 42,0                       | 65,0             | 7,5           |
| SC           | 42,0                       | 65,0             | 8,0           |
| TC           | 42,0                       | 65,0             | 8,0           |
| TC           | 42,0                       | 65,0             | 9,0           |
| SC           | 42,0                       | 65,0             | 10,0          |
| TC           | 42,0                       | 65,0             | 10,0          |
| TC           | 42,0                       | 65,0             | 10,0          |
| TC           | 42,0                       | 65,0             | 12,0          |
| TC           | 42,0                       | 67,0             | 10,0          |
| TC           | 42,0                       | 68,0             | 8,0           |
| TC           | 42,0                       | 68,0             | 10,0          |
| TC           | 42,0                       | 70,0             | 8,0           |
| TC           | 42,0                       | 70,0             | 10,0          |
| TC           | 42,0                       | 70,0             | 12,0          |
| SC           | 42,0                       | 72,0             | 8,0           |
| TC           | 42,0                       | 72,0             | 8,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| SC           | 42,0                       | 72,0             | 10,0          |
| TC           | 42,0                       | 72,0             | 10,0          |
| TC           | 42,0                       | 72,0             | 12,0          |
| TC           | 42,0                       | 75,0             | 10,0          |
| TC           | 42,0                       | 75,0             | 12,0          |
| TC           | 42,0                       | 76,0             | 8,0           |
| TC           | 42,0                       | 76,0             | 12,0          |
| TC           | 42,0                       | 78,0             | 10,0          |
| TC           | 42,0                       | 80,0             | 10,0          |
| SC           | 42,0                       | 85,0             | 8,0           |
| TC           | 42,0                       | 85,0             | 8,0           |
| TC           | 42,1                       | 66,6             | 9,7           |
| SC           | 42,9                       | 55,6             | 4,8           |
| SC           | 42,9                       | 63,5             | 9,5           |
| TC           | 42,9                       | 63,6             | 7,9           |
| TC           | 42,9                       | 66,7             | 9,5           |
| TC           | 42,9                       | 66,7             | 11,9          |
| SC           | 42,9                       | 57,2             | 7,9           |
| TC           | 42,9                       | 62,0             | 8,0           |
| TC           | 43,0                       | 50,0             | 7,0           |
| SC           | 43,0                       | 53,0             | 5,0           |
| SC           | 43,0                       | 54,0             | 7,5           |
| TC           | 43,0                       | 55,0             | 6,0           |
| SC           | 43,0                       | 55,0             | 7,0           |
| SC           | 43,0                       | 55,0             | 8,0           |
| TC           | 43,0                       | 55,0             | 8,0           |
| TC           | 43,0                       | 55,0             | 9,0           |
| TC           | 43,0                       | 58,0             | 7,0           |
| TC           | 43,0                       | 58,0             | 8,0           |
| SC           | 43,0                       | 60,0             | 10,0          |
| SC           | 43,0                       | 62,0             | 8,0           |
| TC           | 43,0                       | 62,0             | 8,0           |
| TC           | 43,0                       | 62,0             | 12,0          |
| SC           | 43,0                       | 63,5             | 7,0           |
| TC           | 43,0                       | 65,0             | 7,0           |
| TC           | 43,0                       | 65,0             | 9,0           |
| TC           | 43,0                       | 65,0             | 10,0          |
| TC           | 43,0                       | 66,0             | 10,0          |
| SC           | 43,0                       | 75,0             | 10,0          |
| TC           | 43,3                       | 65,0             | 12,0          |
| TC           | 43,7                       | 60,3             | 9,5           |
| TC           | 43,7                       | 65,1             | 12,7          |
| TC           | 44,0                       | 52,0             | 10,0          |
| SC           | 44,0                       | 54,0             | 5,0           |
| TC           | 44,0                       | 54,0             | 7,0           |
| TC           | 44,0                       | 55,0             | 7,0           |
| TC           | 44,0                       | 58,0             | 8,0           |
| TC           | 44,0                       | 60,0             | 7,0           |
| SC           | 44,0                       | 60,0             | 8,0           |
| TC           | 44,0                       | 60,0             | 9,0           |
| SC           | 44,0                       | 60,0             | 10,0          |
| TC           | 44,0                       | 62,0             | 7,0           |
| TC           | 44,0                       | 62,0             | 8,0           |
| TC           | 44,0                       | 62,0             | 9,0           |
| SC           | 44,0                       | 62,0             | 10,0          |
| TC           | 44,0                       | 62,0             | 10,0          |
| TC           | 44,0                       | 65,0             | 8,0           |
| SC           | 44,0                       | 65,0             | 10,0          |
| TC           | 44,0                       | 65,0             | 10,0          |
| TC           | 44,0                       | 65,0             | 11,0          |
| TC           | 44,0                       | 70,0             | 12,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| SC           | 44,0                       | 72,0             | 8,0           |
| TC           | 44,0                       | 72,0             | 8,0           |
| SC           | 44,0                       | 72,0             | 10,0          |
| TC           | 44,0                       | 75,0             | 7,0           |
| TC           | 44,0                       | 92,0             | 10,0          |
| SC           | 44,5                       | 57,2             | 7,9           |
| SC           | 44,5                       | 57,2             | 9,5           |
| TC           | 44,5                       | 59,1             | 6,4           |
| TC           | 44,5                       | 59,1             | 9,5           |
| TC           | 44,5                       | 59,8             | 12,7          |
| SC           | 44,5                       | 60,3             | 6,4           |
| TC           | 44,5                       | 60,3             | 7,9           |
| SC           | 44,5                       | 60,3             | 9,5           |
| TC           | 44,5                       | 60,3             | 9,5           |
| TC           | 44,5                       | 61,9             | 7,9           |
| SC           | 44,5                       | 63,5             | 6,4           |
| SC           | 44,5                       | 63,5             | 7,9           |
| SC           | 44,5                       | 63,5             | 9,5           |
| TC           | 44,5                       | 63,5             | 12,7          |
| SC           | 44,5                       | 64,5             | 4,8           |
| SC           | 44,5                       | 65,1             | 7,9           |
| TC           | 44,5                       | 66,7             | 7,9           |
| TC           | 44,5                       | 66,7             | 12,7          |
| TC           | 44,5                       | 68,1             | 11,1          |
| SC           | 44,5                       | 68,3             | 9,5           |
| SC           | 44,5                       | 68,3             | 11,1          |
| TC           | 44,5                       | 69,0             | 11,1          |
| TC           | 44,5                       | 69,9             | 7,9           |
| SC           | 44,5                       | 69,9             | 9,5           |
| TC           | 44,5                       | 69,9             | 9,5           |
| TC           | 44,5                       | 69,9             | 11,1          |
| SC           | 44,5                       | 69,9             | 12,7          |
| TC           | 44,5                       | 73,0             | 9,5           |
| TC           | 44,5                       | 76,2             | 9,5           |
| SC           | 44,5                       | 76,2             | 12,7          |
| SC           | 44,5                       | 81,0             | 12,7          |
| TC           | 44,5                       | 81,0             | 7,9           |
| TC           | 44,5                       | 81,0             | 9,5           |
| SC           | 44,5                       | 82,0             | 10,0          |
| TC           | 44,5                       | 82,0             | 10,0          |
| SC           | 44,5                       | 70,0             | 9,5           |
| SC           | 44,8                       | 61,5             | 9,5           |
| TC           | 44,9                       | 75,0             | 7,9           |
| TC           | 45,0                       | 52,0             | 4,0           |
| TC           | 45,0                       | 52,0             | 8,0           |
| TC           | 45,0                       | 54,0             | 4,5           |
| SC           | 45,0                       | 55,0             | 4,0           |
| TC           | 45,0                       | 55,0             | 5,0           |
| TC           | 45,0                       | 55,0             | 6,0           |
| SC           | 45,0                       | 55,0             | 7,0           |
| TC           | 45,0                       | 55,0             | 7,0           |
| TC           | 45,0                       | 55,0             | 8,0           |
| TC           | 45,0                       | 55,0             | 10,0          |
| TC           | 45,0                       | 55,0             | 12,0          |
| SC           | 45,0                       | 56,0             | 6,0           |
| TC           | 45,0                       | 56,0             | 6,0           |
| TC           | 45,0                       | 56,0             | 8,0           |
| TC           | 45,0                       | 56,0             | 10,0          |
| TC           | 45,0                       | 57,0             | 5,5           |
| TC           | 45,0                       | 57,0             | 8,0           |
| TC           | 45,0                       | 57,0             | 9,0           |
| TC           | 45,0                       | 58,0             | 7,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| SC           | 45,0                       | 58,0                | 8,0              |
| TC           | 45,0                       | 58,0                | 8,0              |
| TC           | 45,0                       | 58,0                | 10,0             |
| TC           | 45,0                       | 59,0                | 7,0              |
| TC           | 45,0                       | 59,0                | 10,0             |
| SC           | 45,0                       | 60,0                | 7,0              |
| TC           | 45,0                       | 60,0                | 7,0              |
| TC           | 45,0                       | 60,0                | 7,0              |
| SC           | 45,0                       | 60,0                | 8,0              |
| SC           | 45,0                       | 60,0                | 8,0              |
| TC           | 45,0                       | 60,0                | 8,0              |
| TC           | 45,0                       | 60,0                | 9,0              |
| SC           | 45,0                       | 60,0                | 10,0             |
| TC           | 45,0                       | 60,0                | 10,0             |
| TC           | 45,0                       | 60,0                | 12,0             |
| SC           | 45,0                       | 62,0                | 6,0              |
| SC           | 45,0                       | 62,0                | 7,0              |
| TC           | 45,0                       | 62,0                | 7,0              |
| SC           | 45,0                       | 62,0                | 8,0              |
| TC           | 45,0                       | 62,0                | 8,0              |
| TC           | 45,0                       | 62,0                | 9,0              |
| SC           | 45,0                       | 62,0                | 10,0             |
| TC           | 45,0                       | 62,0                | 10,0             |
| TC           | 45,0                       | 62,0                | 12,0             |
| TC           | 45,0                       | 63,0                | 7,0              |
| TC           | 45,0                       | 63,5                | 10,0             |
| TC           | 45,0                       | 64,0                | 7,0              |
| TC           | 45,0                       | 64,0                | 10,0             |
| SC           | 45,0                       | 65,0                | 7,0              |
| TC           | 45,0                       | 65,0                | 7,0              |
| SC           | 45,0                       | 65,0                | 8,0              |
| TC           | 45,0                       | 65,0                | 8,0              |
| TC           | 45,0                       | 65,0                | 9,0              |
| SC           | 45,0                       | 65,0                | 10,0             |
| TC           | 45,0                       | 65,0                | 10,0             |
| TC           | 45,0                       | 65,0                | 12,0             |
| TC           | 45,0                       | 65,2                | 9,7              |
| TC           | 45,0                       | 66,0                | 10,0             |
| TC           | 45,0                       | 68,0                | 7,0              |
| SC           | 45,0                       | 68,0                | 8,0              |
| TC           | 45,0                       | 68,0                | 8,0              |
| TC           | 45,0                       | 68,0                | 9,0              |
| SC           | 45,0                       | 68,0                | 10,0             |
| TC           | 45,0                       | 68,0                | 10,0             |
| TC           | 45,0                       | 68,0                | 12,0             |
| TC           | 45,0                       | 68,0                | 15,0             |
| TC           | 45,0                       | 68,3                | 7,0              |
| SC           | 45,0                       | 70,0                | 7,0              |
| TC           | 45,0                       | 70,0                | 8,0              |
| SC           | 45,0                       | 70,0                | 10,0             |
| TC           | 45,0                       | 70,0                | 10,0             |
| TC           | 45,0                       | 70,0                | 12,0             |
| SC           | 45,0                       | 72,0                | 8,0              |
| TC           | 45,0                       | 72,0                | 8,0              |
| SC           | 45,0                       | 72,0                | 10,0             |
| TC           | 45,0                       | 72,0                | 10,0             |
| SC           | 45,0                       | 72,0                | 12,0             |
| TC           | 45,0                       | 72,0                | 12,0             |
| TC           | 45,0                       | 74,5                | 12,0             |
| TC           | 45,0                       | 75,0                | 7,0              |
| SC           | 45,0                       | 75,0                | 8,0              |
| TC           | 45,0                       | 75,0                | 8,0              |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| SC           | 45,0                       | 75,0                 | 10,0             |
| TC           | 45,0                       | 75,0                 | 10,0             |
| TC           | 45,0                       | 75,0                 | 12,0             |
| TC           | 45,0                       | 78,0                 | 12,0             |
| TC           | 45,0                       | 80,0                 | 7,0              |
| TC           | 45,0                       | 80,0                 | 8,0              |
| SC           | 45,0                       | 80,0                 | 10,0             |
| TC           | 45,0                       | 80,0                 | 10,0             |
| TC           | 45,0                       | 80,0                 | 12,0             |
| SC           | 45,0                       | 80,0                 | 13,0             |
| TC           | 45,0                       | 82,0                 | 12,0             |
| TC           | 45,0                       | 85,0                 | 8,0              |
| SC           | 45,0                       | 85,0                 | 10,0             |
| TC           | 45,0                       | 85,0                 | 10,0             |
| TC           | 45,0                       | 85,0                 | 12,0             |
| SC           | 45,0                       | 90,0                 | 10,0             |
| TC           | 45,0                       | 90,0                 | 10,0             |
| SC           | 45,0                       | 93,0                 | 6,0              |
| SC           | 45,0                       | 100,0                | 10,0             |
| TC           | 45,0                       | 100,0                | 10,0             |
| TC           | 45,2                       | 57,2                 | 9,5              |
| TC           | 46,0                       | 54,0                 | 9,0              |
| TC           | 46,0                       | 58,0                 | 7,0              |
| TC           | 46,0                       | 59,1                 | 12,0             |
| TC           | 46,0                       | 60,0                 | 7,0              |
| TC           | 46,0                       | 60,0                 | 10,0             |
| TC           | 46,0                       | 62,0                 | 8,0              |
| TC           | 46,0                       | 65,0                 | 9,0              |
| SC           | 46,0                       | 65,0                 | 10,0             |
| TC           | 46,0                       | 65,5                 | 7,0              |
| TC           | 46,0                       | 68,0                 | 8,0              |
| TC           | 46,0                       | 70,0                 | 8,0              |
| SC           | 46,0                       | 72,0                 | 10,0             |
| SC           | 46,0                       | 76,2                 | 9,5              |
| SC           | 46,5                       | 60,0                 | 9,0              |
| SC           | 47,0                       | 56,0                 | 7,0              |
| TC           | 47,0                       | 57,0                 | 7,0              |
| TC           | 47,0                       | 58,0                 | 5,0              |
| TC           | 47,0                       | 60,0                 | 7,0              |
| TC           | 47,0                       | 60,0                 | 12,0             |
| SC           | 47,0                       | 61,2                 | 5,5              |
| TC           | 47,0                       | 61,2                 | 5,5              |
| TC           | 47,0                       | 62,0                 | 6,0              |
| TC           | 47,0                       | 62,0                 | 7,0              |
| SC           | 47,0                       | 62,0                 | 8,0              |
| TC           | 47,0                       | 62,0                 | 8,0              |
| SC           | 47,0                       | 65,0                 | 8,0              |
| TC           | 47,0                       | 65,0                 | 8,0              |
| TC           | 47,0                       | 65,0                 | 10,0             |
| TC           | 47,0                       | 68,0                 | 10,0             |
| TC           | 47,0                       | 70,0                 | 10,0             |
| TC           | 47,0                       | 84,0                 | 10,0             |
| TC           | 47,0                       | 88,0                 | 12,0             |
| TC           | 47,2                       | 63,5                 | 6,4              |
| TC           | 47,5                       | 70,7                 | 9,0              |
| SC           | 47,6                       | 60,3                 | 6,4              |
| SC           | 47,6                       | 60,8                 | 6,4              |
| TC           | 47,6                       | 60,9                 | 6,4              |
| SC           | 47,6                       | 61,9                 | 7,9              |
| TC           | 47,6                       | 62,8                 | 7,9              |
| SC           | 47,6                       | 63,5                 | 9,5              |
| SC           | 47,6                       | 63,6                 | 8,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| SC           | 47,6                       | 65,1                 | 7,9              |
| TC           | 47,6                       | 66,6                 | 7,9              |
| TC           | 47,6                       | 66,7                 | 9,5              |
| TC           | 47,6                       | 66,7                 | 11,1             |
| TC           | 47,6                       | 69,9                 | 7,9              |
| SC           | 47,6                       | 69,9                 | 9,5              |
| SC           | 47,6                       | 73,0                 | 9,5              |
| TC           | 47,6                       | 73,0                 | 9,5              |
| SC           | 47,6                       | 76,2                 | 12,7             |
| TC           | 47,6                       | 76,2                 | 12,7             |
| TC           | 47,6                       | 79,4                 | 12,7             |
| TC           | 47,6                       | 90,0                 | 8,0              |
| TC           | 48,0                       | 58,0                 | 4,0              |
| TC           | 48,0                       | 58,0                 | 7,0              |
| TC           | 48,0                       | 59,0                 | 6,0              |
| TC           | 48,0                       | 60,0                 | 7,0              |
| TC           | 48,0                       | 60,0                 | 8,0              |
| TC           | 48,0                       | 60,0                 | 10,0             |
| TC           | 48,0                       | 62,0                 | 7,0              |
| SC           | 48,0                       | 62,0                 | 8,0              |
| SC           | 48,0                       | 62,0                 | 8,0              |
| TC           | 48,0                       | 62,0                 | 8,0              |
| TC           | 48,0                       | 62,0                 | 9,0              |
| TC           | 48,0                       | 62,0                 | 10,0             |
| TC           | 48,0                       | 62,0                 | 12,0             |
| SC           | 48,0                       | 64,0                 | 7,0              |
| SC           | 48,0                       | 65,0                 | 7,0              |
| TC           | 48,0                       | 65,0                 | 7,0              |
| TC           | 48,0                       | 65,0                 | 8,0              |
| TC           | 48,0                       | 65,0                 | 9,0              |
| SC           | 48,0                       | 65,0                 | 10,0             |
| TC           | 48,0                       | 65,0                 | 10,0             |
| TC           | 48,0                       | 65,0                 | 12,0             |
| TC           | 48,0                       | 67,0                 | 11,0             |
| TC           | 48,0                       | 68,0                 | 8,0              |
| SC           | 48,0                       | 68,0                 | 10,0             |
| TC           | 48,0                       | 68,0                 | 10,0             |
| TC           | 48,0                       | 68,0                 | 12,0             |
| TC           | 48,0                       | 68,0                 | 14,0             |
| TC           | 48,0                       | 70,0                 | 7,0              |
| TC           | 48,0                       | 70,0                 | 9,0              |
| TC           | 48,0                       | 70,0                 | 10,0             |
| TC           | 48,0                       | 70,5                 | 10,0             |
| SC           | 48,0                       | 72,0                 | 7,0              |
| TC           | 48,0                       | 72,0                 | 7,0              |
| SC           | 48,0                       | 72,0                 | 8,0              |
| TC           | 48,0                       | 72,0                 | 8,0              |
| TC           | 48,0                       | 72,0                 | 9,0              |
| SC           | 48,0                       | 72,0                 | 10,0             |
| SC           | 48,0                       | 72,0                 | 10,0             |
| TC           | 48,0                       | 72,0                 | 10,0             |
| TC           | 48,0                       | 72,0                 | 12,0             |
| TC           | 48,0                       | 72,5                 | 10,0             |
| TC           | 48,0                       | 73,0                 | 8,0              |
| TC           | 48,0                       | 74,0                 | 10,0             |
| TC           | 48,0                       | 74,0                 | 12,0             |
| TC           | 48,0                       | 75,0                 | 10,0             |
| TC           | 48,0                       | 75,0                 | 12,0             |
| TC           | 48,0                       | 76,0                 | 10,0             |
| TC           | 48,0                       | 76,0                 | 12,0             |
| SC           | 48,0                       | 80,0                 | 10,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| TC           | 48,0                       | 80,0                 | 10,0             |
| TC           | 48,0                       | 82,0                 | 10,0             |
| SC           | 48,0                       | 85,0                 | 10,0             |
| TC           | 48,0                       | 85,0                 | 10,0             |
| TC           | 48,0                       | 90,0                 | 13,0             |
| TC           | 48,0                       | 95,0                 | 8,0              |
| SC           | 48,4                       | 76,2                 | 12,7             |
| TC           | 48,4                       | 63,5                 | 9,5              |
| TC           | 49,0                       | 60,0                 | 7,0              |
| TC           | 49,0                       | 62,0                 | 6,0              |
| TC           | 49,0                       | 64,0                 | 8,0              |
| SC           | 49,0                       | 65,0                 | 9,0              |
| TC           | 49,0                       | 65,0                 | 10,0             |
| TC           | 49,0                       | 68,0                 | 10,0             |
| TC           | 49,0                       | 76,0                 | 15,0             |
| TC           | 49,0                       | 82,0                 | 12,0             |
| TC           | 49,0                       | 92,0                 | 10,0             |
| SC           | 49,2                       | 63,5                 | 9,5              |
| TC           | 49,2                       | 63,5                 | 9,5              |
| TC           | 49,2                       | 63,6                 | 9,5              |
| TC           | 49,2                       | 65,1                 | 8,3              |
| TC           | 49,2                       | 66,6                 | 7,9              |
| SC           | 49,2                       | 69,9                 | 9,5              |
| TC           | 49,2                       | 69,9                 | 9,5              |
| TC           | 49,2                       | 71,4                 | 9,5              |
| TC           | 49,2                       | 81,0                 | 11,1             |
| TC           | 49,2                       | 69,8                 | 7,9              |
| TC           | 50,0                       | 58,0                 | 4,0              |
| TC           | 50,0                       | 60,0                 | 4,0              |
| TC           | 50,0                       | 60,0                 | 7,0              |
| SC           | 50,0                       | 60,0                 | 8,0              |
| TC           | 50,0                       | 60,0                 | 8,0              |
| TC           | 50,0                       | 60,0                 | 10,0             |
| TC           | 50,0                       | 60,0                 | 12,0             |
| TC           | 50,0                       | 60,5                 | 5,0              |
| SC           | 50,0                       | 62,0                 | 7,0              |
| TC           | 50,0                       | 62,0                 | 7,0              |
| SC           | 50,0                       | 62,0                 | 8,0              |
| TC           | 50,0                       | 62,0                 | 9,0              |
| TC           | 50,0                       | 62,0                 | 10,0             |
| TC           | 50,0                       | 62,0                 | 12,0             |
| TC           | 50,0                       | 63,0                 | 8,0              |
| TC           | 50,0                       | 64,0                 | 6,5              |
| TC           | 50,0                       | 64,0                 | 8,0              |
| TC           | 50,0                       | 64,0                 | 9,0              |
| TC           | 50,0                       | 64,0                 | 10,0             |
| SC           | 50,0                       | 65,0                 | 8,0              |
| SC           | 50,0                       | 65,0                 | 8,0              |
| SC           | 50,0                       | 65,0                 | 8,0              |
| SC           | 50,0                       | 65,0                 | 8,0              |
| TC           | 50,0                       | 65,0                 | 8,0              |
| TC           | 50,0                       | 65,0                 | 8,0              |
| TC           | 50,0                       | 65,0                 | 9,0              |
| TC           | 50,0                       | 65,0                 | 9,0              |
| TC           | 50,0                       | 65,0                 | 10,0             |
| SC           | 50,0                       | 65,0                 | 10,0             |
| TC           | 50,0                       | 65,0                 | 10,0             |
| TC           | 50,0                       | 65,0                 | 12,0             |
| TC           | 50,0                       | 66,0                 | 6,0              |
| SC           | 50,0                       | 66,0                 | 8,0              |
| TC           | 50,0                       | 67,0                 | 9,0              |
| TC           | 50,0                       | 67,0                 | 10,0             |
| TC           | 50,0                       | 67,0                 | 11,0             |
| TC           | 50,0                       | 68,0                 | 7,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| SC           | 50,0                       | 68,0                 | 8,0              |
| TC           | 50,0                       | 68,0                 | 8,0              |
| TC           | 50,0                       | 68,0                 | 9,0              |
| SC           | 50,0                       | 68,0                 | 10,0             |
| TC           | 50,0                       | 68,0                 | 10,0             |
| TC           | 50,0                       | 68,0                 | 12,0             |
| TC           | 50,0                       | 70,0                 | 7,0              |
| SC           | 50,0                       | 70,0                 | 8,0              |
| SC           | 50,0                       | 70,0                 | 8,0              |
| TC           | 50,0                       | 70,0                 | 8,0              |
| TC           | 50,0                       | 70,0                 | 9,0              |
| SC           | 50,0                       | 70,0                 | 10,0             |
| TC           | 50,0                       | 70,0                 | 10,0             |
| SC           | 50,0                       | 70,0                 | 12,0             |
| TC           | 50,0                       | 70,0                 | 12,0             |
| TC           | 50,0                       | 70,0                 | 13,0             |
| TC           | 50,0                       | 72,0                 | 7,0              |
| SC           | 50,0                       | 72,0                 | 8,0              |
| TC           | 50,0                       | 72,0                 | 8,0              |
| TC           | 50,0                       | 72,0                 | 9,0              |
| SC           | 50,0                       | 72,0                 | 10,0             |
| TC           | 50,0                       | 72,0                 | 10,0             |
| SC           | 50,0                       | 72,0                 | 12,0             |
| TC           | 50,0                       | 72,0                 | 12,0             |
| TC           | 50,0                       | 72,0                 | 14,0             |
| TC           | 50,0                       | 73,0                 | 9,0              |
| TC           | 50,0                       | 75,0                 | 8,0              |
| SC           | 50,0                       | 75,0                 | 10,0             |
| TC           | 50,0                       | 75,0                 | 10,0             |
| TC           | 50,0                       | 75,0                 | 12,0             |
| TC           | 50,0                       | 76,0                 | 10,0             |
| TC           | 50,0                       | 76,0                 | 12,0             |
| TC           | 50,0                       | 78,0                 | 8,0              |
| TC           | 50,0                       | 78,0                 | 12,0             |
| SC           | 50,0                       | 80,0                 | 8,0              |
| TC           | 50,0                       | 80,0                 | 8,0              |
| SC           | 50,0                       | 80,0                 | 10,0             |
| TC           | 50,0                       | 80,0                 | 10,0             |
| TC           | 50,0                       | 80,0                 | 12,0             |
| TC           | 50,0                       | 80,0                 | 13,0             |
| TC           | 50,0                       | 81,0                 | 12,0             |
| TC           | 50,0                       | 82,0                 | 12,0             |
| TC           | 50,0                       | 85,0                 | 8,0              |
| SC           | 50,0                       | 85,0                 | 10,0             |
| TC           | 50,0                       | 85,0                 | 10,0             |
| TC           | 50,0                       | 85,0                 | 12,0             |
| TC           | 50,0                       | 87,0                 | 13,0             |
| TC           | 50,0                       | 90,0                 | 8,0              |
| SC           | 50,0                       | 90,0                 | 10,0             |
| TC           | 50,0                       | 90,0                 | 10,0             |
| TC           | 50,0                       | 90,0                 | 10,0             |
| TC           | 50,0                       | 90,0                 | 12,0             |
| TC           | 50,0                       | 90,0                 | 13,0             |
| TC           | 50,0                       | 92,0                 | 10,0             |
| SC           | 50,0                       | 98,0                 | 6,0              |
| TC           | 50,0                       | 100,0                | 10,0             |
| TC           | 50,0                       | 105,0                | 10,0             |
| SC           | 50,0                       | 110,0                | 10,0             |
| TC           | 50,0                       | 110,0                | 10,0             |
| TC           | 50,0                       | 125,0                | 10,0             |
| TC           | 50,0                       | 130,0                | 15,0             |
| TC           | 50,5                       | 62,0                 | 9,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| SC           | 50,8                       | 60,3                 | 6,4              |
| SC           | 50,8                       | 63,5                 | 6,4              |
| TC           | 50,8                       | 63,5                 | 7,9              |
| TC           | 50,8                       | 66,6                 | 7,9              |
| TC           | 50,8                       | 69,0                 | 14,3             |
| TC           | 50,8                       | 69,9                 | 7,9              |
| SC           | 50,8                       | 69,9                 | 9,5              |
| SC           | 50,8                       | 69,9                 | 9,5              |
| SC           | 50,8                       | 69,9                 | 12,7             |
| TC           | 50,8                       | 69,9                 | 12,7             |
| SC           | 50,8                       | 73,0                 | 9,5              |
| SC           | 50,8                       | 73,0                 | 12,7             |
| SC           | 50,8                       | 73,8                 | 7,9              |
| TC           | 50,8                       | 76,1                 | 9,5              |
| TC           | 50,8                       | 76,2                 | 7,9              |
| TC           | 50,8                       | 76,2                 | 9,5              |
| SC           | 50,8                       | 76,2                 | 12,7             |
| TC           | 50,8                       | 76,2                 | 12,7             |
| SC           | 50,8                       | 79,4                 | 9,5              |
| SC           | 50,8                       | 82,6                 | 9,5              |
| TC           | 50,8                       | 85,7                 | 11,1             |
| SC           | 50,8                       | 88,9                 | 12,7             |
| SC           | 51,0                       | 62,0                 | 7,0              |
| TC           | 51,0                       | 65,0                 | 13,0             |
| SC           | 51,0                       | 66,0                 | 6,5              |
| TC           | 51,0                       | 66,5                 | 10,0             |
| SC           | 51,6                       | 67,3                 | 4,7              |
| TC           | 51,6                       | 73,4                 | 14,3             |
| TC           | 52,0                       | 60,0                 | 7,0              |
| TC           | 52,0                       | 62,0                 | 7,0              |
| SC           | 52,0                       | 62,0                 | 8,0              |
| TC           | 52,0                       | 62,0                 | 8,0              |
| TC           | 52,0                       | 62,0                 | 9,0              |
| TC           | 52,0                       | 62,0                 | 10,0             |
| TC           | 52,0                       | 63,0                 | 6,0              |
| TC           | 52,0                       | 63,0                 | 8,0              |
| TC           | 52,0                       | 64,0                 | 9,0              |
| SC           | 52,0                       | 65,0                 | 8,0              |
| TC           | 52,0                       | 65,0                 | 8,0              |
| TC           | 52,0                       | 65,0                 | 9,0              |
| TC           | 52,0                       | 65,0                 | 10,0             |
| SC           | 52,0                       | 66,0                 | 6,0              |
| SC           | 52,0                       | 66,0                 | 9,0              |
| TC           | 52,0                       | 68,0                 | 7,0              |
| SC           | 52,0                       | 68,0                 | 8,0              |
| TC           | 52,0                       | 68,0                 | 8,0              |
| SC           | 52,0                       | 68,0                 | 10,0             |
| TC           | 52,0                       | 68,0                 | 10,0             |
| TC           | 52,0                       | 69,0                 | 10,0             |
| TC           | 52,0                       | 70,0                 | 9,0              |
| TC           | 52,0                       | 70,0                 | 10,0             |
| TC           | 52,0                       | 70,0                 | 13,0             |
| TC           | 52,0                       | 71,0                 | 8,0              |
| SC           | 52,0                       | 72,0                 | 8,0              |
| TC           | 52,0                       | 72,0                 | 8,0              |
| TC           | 52,0                       | 72,0                 | 9,0              |
| TC           | 52,0                       | 72,0                 | 10,0             |
| TC           | 52,0                       | 72,0                 | 12,0             |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC           | 52,0                       | 75,0                | 12,0             |
| TC           | 52,0                       | 76,0                | 9,0              |
| SC           | 52,0                       | 78,0                | 9,0              |
| TC           | 52,0                       | 78,0                | 10,0             |
| SC           | 52,0                       | 80,0                | 8,0              |
| TC           | 52,0                       | 80,0                | 8,0              |
| TC           | 52,0                       | 80,0                | 10,0             |
| TC           | 52,0                       | 80,0                | 10,0             |
| TC           | 52,0                       | 80,0                | 12,0             |
| TC           | 52,0                       | 80,0                | 13,0             |
| TC           | 52,0                       | 85,0                | 9,0              |
| SC           | 52,0                       | 85,0                | 10,0             |
| TC           | 52,0                       | 85,0                | 10,0             |
| SC           | 52,0                       | 85,0                | 13,0             |
| TC           | 52,0                       | 85,0                | 13,0             |
| TC           | 52,0                       | 90,0                | 10,0             |
| SC           | 52,4                       | 76,2                | 9,5              |
| SC           | 52,4                       | 81,0                | 11,5             |
| TC           | 53,0                       | 67,0                | 9,0              |
| TC           | 53,0                       | 68,0                | 10,0             |
| TC           | 53,0                       | 68,2                | 7,0              |
| SC           | 53,0                       | 71,0                | 9,0              |
| TC           | 53,0                       | 72,0                | 10,0             |
| TC           | 53,0                       | 73,0                | 10,0             |
| TC           | 53,0                       | 80,0                | 13,0             |
| SC           | 53,0                       | 85,0                | 8,0              |
| SC           | 53,5                       | 90,0                | 6,0              |
| SC           | 54,0                       | 69,9                | 7,9              |
| TC           | 54,0                       | 69,9                | 7,9              |
| TC           | 54,0                       | 72,9                | 9,1              |
| TC           | 54,0                       | 73,0                | 9,5              |
| TC           | 54,0                       | 73,0                | 9,5              |
| SC           | 54,0                       | 76,2                | 9,5              |
| TC           | 54,0                       | 76,2                | 9,5              |
| SC           | 54,0                       | 76,2                | 12,7             |
| TC           | 54,0                       | 76,2                | 12,7             |
| TC           | 54,0                       | 77,8                | 12,7             |
| TC           | 54,0                       | 79,4                | 7,9              |
| SC           | 54,0                       | 79,4                | 9,5              |
| TC           | 54,0                       | 79,4                | 11,9             |
| SC           | 54,0                       | 81,0                | 9,5              |
| TC           | 54,0                       | 85,7                | 11,1             |
| TC           | 54,0                       | 85,7                | 9,5              |
| TC           | 54,0                       | 92,1                | 9,5              |
| TC           | 54,0                       | 64,0                | 9,0              |
| TC           | 54,0                       | 65,0                | 9,0              |
| TC           | 54,0                       | 65,0                | 10,0             |
| TC           | 54,0                       | 65,0                | 13,0             |
| TC           | 54,0                       | 66,0                | 7,0              |
| TC           | 54,0                       | 68,0                | 9,0              |
| TC           | 54,0                       | 68,0                | 10,0             |
| TC           | 54,0                       | 70,0                | 9,0              |
| TC           | 54,0                       | 70,0                | 10,0             |
| TC           | 54,0                       | 71,0                | 8,0              |
| TC           | 54,0                       | 72,0                | 10,0             |
| TC           | 54,0                       | 72,5                | 9,0              |
| TC           | 54,0                       | 73,0                | 8,0              |
| TC           | 54,0                       | 73,0                | 10,0             |
| SC           | 54,0                       | 73,0                | 12,3             |
| TC           | 54,0                       | 74,0                | 10,0             |
| TC           | 54,0                       | 75,0                | 10,0             |
| TC           | 54,0                       | 76,0                | 8,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| SC           | 54,0                       | 76,0                | 12,0             |
| TC           | 54,0                       | 76,0                | 12,0             |
| TC           | 54,0                       | 78,0                | 12,0             |
| TC           | 54,0                       | 80,0                | 10,0             |
| TC           | 54,0                       | 81,0                | 10,0             |
| SC           | 54,0                       | 81,0                | 11,0             |
| TC           | 54,0                       | 82,0                | 11,0             |
| SC           | 54,0                       | 85,0                | 8,0              |
| TC           | 54,0                       | 85,0                | 8,0              |
| TC           | 54,0                       | 85,0                | 10,0             |
| TC           | 54,0                       | 90,0                | 8,0              |
| TC           | 54,5                       | 70,0                | 8,0              |
| SC           | 54,8                       | 73,0                | 9,5              |
| SC           | 55,0                       | 63,0                | 5,0              |
| TC           | 55,0                       | 65,0                | 8,0              |
| TC           | 55,0                       | 65,0                | 10,0             |
| TC           | 55,0                       | 68,0                | 6,0              |
| SC           | 55,0                       | 68,0                | 8,0              |
| TC           | 55,0                       | 68,0                | 8,0              |
| TC           | 55,0                       | 68,0                | 10,0             |
| TC           | 55,0                       | 68,0                | 12,0             |
| SC           | 55,0                       | 70,0                | 8,0              |
| TC           | 55,0                       | 70,0                | 8,0              |
| TC           | 55,0                       | 70,0                | 9,0              |
| SC           | 55,0                       | 70,0                | 10,0             |
| TC           | 55,0                       | 70,0                | 10,0             |
| TC           | 55,0                       | 70,0                | 12,0             |
| SC           | 55,0                       | 72,0                | 7,0              |
| SC           | 55,0                       | 72,0                | 8,0              |
| TC           | 55,0                       | 72,0                | 8,0              |
| TC           | 55,0                       | 72,0                | 9,0              |
| TC           | 55,0                       | 72,0                | 9,0              |
| TC           | 55,0                       | 72,0                | 10,0             |
| TC           | 55,0                       | 72,0                | 10,0             |
| TC           | 55,0                       | 72,0                | 12,0             |
| TC           | 55,0                       | 73,0                | 6,0              |
| TC           | 55,0                       | 73,0                | 10,0             |
| SC           | 55,0                       | 75,0                | 7,0              |
| TC           | 55,0                       | 75,0                | 8,0              |
| TC           | 55,0                       | 75,0                | 9,0              |
| SC           | 55,0                       | 75,0                | 10,0             |
| TC           | 55,0                       | 75,0                | 10,0             |
| TC           | 55,0                       | 75,0                | 12,0             |
| TC           | 55,0                       | 76,0                | 10,0             |
| TC           | 55,0                       | 76,0                | 12,0             |
| TC           | 55,0                       | 77,0                | 8,0              |
| TC           | 55,0                       | 78,0                | 7,0              |
| TC           | 55,0                       | 78,0                | 9,0              |
| SC           | 55,0                       | 78,0                | 12,0             |
| TC           | 55,0                       | 78,0                | 12,0             |
| TC           | 55,0                       | 78,1                | 6,5              |
| SC           | 55,0                       | 80,0                | 8,0              |
| TC           | 55,0                       | 80,0                | 8,0              |
| TC           | 55,0                       | 80,0                | 10,0             |
| TC           | 55,0                       | 80,0                | 10,0             |
| SC           | 55,0                       | 80,0                | 10,0             |
| TC           | 55,0                       | 80,0                | 12,0             |
| TC           | 55,0                       | 80,0                | 12,0             |
| SC           | 55,0                       | 80,0                | 13,0             |
| TC           | 55,0                       | 82,0                | 9,0              |
| TC           | 55,0                       | 82,0                | 10,0             |
| TC           | 55,0                       | 82,0                | 12,0             |
| TC           | 55,0                       | 82,6                | 9,5              |
| SC           | 55,0                       | 85,0                | 8,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC           | 55,0                       | 85,0                | 8,0              |
| SC           | 55,0                       | 85,0                | 10,0             |
| TC           | 55,0                       | 85,0                | 10,0             |
| TC           | 55,0                       | 85,0                | 12,0             |
| SC           | 55,0                       | 85,0                | 13,0             |
| TC           | 55,0                       | 85,0                | 14,0             |
| SC           | 55,0                       | 85,8                | 13,0             |
| TC           | 55,0                       | 88,0                | 10,0             |
| TC           | 55,0                       | 90,0                | 8,0              |
| SC           | 55,0                       | 90,0                | 10,0             |
| TC           | 55,0                       | 90,0                | 10,0             |
| SC           | 55,0                       | 90,0                | 12,0             |
| TC           | 55,0                       | 90,0                | 13,0             |
| SC           | 55,0                       | 92,0                | 9,0              |
| TC           | 55,0                       | 92,0                | 9,0              |
| TC           | 55,0                       | 95,0                | 10,0             |
| TC           | 55,0                       | 100,0               | 8,0              |
| TC           | 55,0                       | 100,0               | 10,0             |
| SC           | 55,0                       | 100,0               | 12,0             |
| TC           | 55,0                       | 100,0               | 12,0             |
| SC           | 55,0                       | 100,0               | 12,5             |
| TC           | 55,0                       | 120,0               | 12,0             |
| TC           | 55,6                       | 69,9                | 9,5              |
| SC           | 55,6                       | 73,0                | 12,7             |
| TC           | 55,6                       | 76,2                | 9,5              |
| TC           | 55,6                       | 76,2                | 12,7             |
| SC           | 55,6                       | 78,5                | 11,5             |
| TC           | 55,6                       | 81,0                | 11,1             |
| SC           | 55,6                       | 85,7                | 12,7             |
| TC           | 56,0                       | 68,0                | 6,0              |
| SC           | 56,0                       | 70,0                | 8,0              |
| TC           | 56,0                       | 70,0                | 9,0              |
| SC           | 56,0                       | 72,0                | 8,0              |
| TC           | 56,0                       | 72,0                | 8,0              |
| TC           | 56,0                       | 72,0                | 9,0              |
| TC           | 56,0                       | 72,0                | 10,0             |
| TC           | 56,0                       | 73,0                | 10,0             |
| TC           | 56,0                       | 75,0                | 8,0              |
| TC           | 56,0                       | 76,0                | 8,0              |
| SC           | 56,0                       | 80,0                | 8,0              |
| TC           | 56,0                       | 80,0                | 10,0             |
| TC           | 56,0                       | 80,0                | 10,0             |
| TC           | 56,0                       | 80,0                | 13,0             |
| SC           | 56,0                       | 85,0                | 8,0              |
| TC           | 56,0                       | 85,0                | 8,0              |
| TC           | 56,0                       | 85,0                | 10,0             |
| SC           | 56,0                       | 90,0                | 10,0             |
| TC           | 56,0                       | 90,0                | 10,0             |
| SC           | 56,0                       | 100,0               | 10,0             |
| TC           | 57,0                       | 67,0                | 6,0              |
| TC           | 57,0                       | 75,0                | 12,0             |
| TC           | 57,0                       | 80,0                | 12,0             |
| TC           | 57,0                       | 82,5                | 10,0             |
| TC           | 57,0                       | 85,0                | 10,0             |
| TC           | 57,0                       | 85,0                | 12,0             |
| TC           | 57,0                       | 85,0                | 15,0             |
| SC           | 57,0                       | 90,0                | 13,0             |
| TC           | 57,2                       | 69,9                | 6,4              |
| TC           | 57,2                       | 73,0                | 9,5              |
| TC           | 57,2                       | 76,1                | 11,1             |
| SC           | 57,2                       | 76,2                | 9,5              |
| TC           | 57,2                       | 76,2                | 9,5              |
| SC           | 57,2                       | 76,2                | 12,7             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC           | 57,2                       | 76,2                | 12,7             |
| TC           | 57,2                       | 77,8                | 9,5              |
| TC           | 57,2                       | 77,9                | 9,5              |
| SC           | 57,2                       | 79,4                | 9,5              |
| SC           | 57,2                       | 81,0                | 12,7             |
| SC           | 57,2                       | 82,6                | 12,7             |
| TC           | 57,2                       | 82,6                | 19,1             |
| TC           | 57,2                       | 85,7                | 6,4              |
| SC           | 57,2                       | 85,7                | 7,9              |
| TC           | 57,2                       | 85,7                | 9,5              |
| TC           | 57,2                       | 85,7                | 12,7             |
| TC           | 57,2                       | 88,9                | 12,7             |
| TC           | 57,2                       | 92,1                | 12,7             |
| TC           | 57,2                       | 110,0               | 10,0             |
| TC           | 58,0                       | 68,0                | 9,0              |
| TC           | 58,0                       | 70,0                | 7,0              |
| TC           | 58,0                       | 70,0                | 9,0              |
| TC           | 58,0                       | 70,0                | 11,0             |
| SC           | 58,0                       | 72,0                | 8,0              |
| TC           | 58,0                       | 72,0                | 8,0              |
| TC           | 58,0                       | 72,0                | 9,0              |
| TC           | 58,0                       | 72,0                | 10,0             |
| TC           | 58,0                       | 74,0                | 10,0             |
| TC           | 58,0                       | 75,0                | 8,0              |
| TC           | 58,0                       | 75,0                | 9,0              |
| TC           | 58,0                       | 75,0                | 10,0             |
| TC           | 58,0                       | 75,0                | 11,0             |
| TC           | 58,0                       | 75,0                | 12,0             |
| TC           | 58,0                       | 78,0                | 9,0              |
| TC           | 58,0                       | 78,0                | 12,0             |
| SC           | 58,0                       | 80,0                | 8,0              |
| TC           | 58,0                       | 80,0                | 8,0              |
| TC           | 58,0                       | 80,0                | 9,0              |
| SC           | 58,0                       | 80,0                | 10,0             |
| TC           | 58,0                       | 80,0                | 10,0             |
| TC           | 58,0                       | 80,0                | 11,0             |
| TC           | 58,0                       | 80,0                | 12,0             |
| TC           | 58,0                       | 82,0                | 10,0             |
| TC           | 58,0                       | 82,0                | 12,0             |
| TC           | 58,0                       | 82,0                | 12,0             |
| SC           | 58,0                       | 82,0                | 12,0             |
| TC           | 58,0                       | 82,0                | 12,0             |
| TC           | 58,0                       | 84,0                | 10,0             |
| TC           | 58,0                       | 85,0                | 6,0              |
| TC           | 58,0                       | 85,0                | 7,0              |
| SC           | 58,0                       | 85,0                | 8,0              |
| TC           | 58,0                       | 85,0                | 8,0              |
| TC           | 58,0                       | 85,0                | 10,0             |
| TC           | 58,0                       | 85,0                | 10,0             |
| SC           | 58,0                       | 85,0                | 12,0             |
| TC           | 58,0                       | 85,0                | 12,0             |
| TC           | 58,0                       | 86,0                | 12,0             |
| SC           | 58,0                       | 90,0                | 10,0             |
| TC           | 58,0                       | 90,0                | 10,0             |
| SC           | 58,0                       | 90,0                | 11,0             |
| TC           | 58,0                       | 90,0                | 13,0             |
| TC           | 58,0                       | 92,0                | 8,0              |
| SC           | 58,1                       | 76,2                | 9,5              |
| TC           | 58,7                       | 84,1                | 9,5              |
| SC           | 58,7                       | 85,1                | 7,9              |
| TC           | 59,0                       | 72,0                | 12,0             |
| TC           | 59,1                       | 73,1                | 7,9              |
| TC           | 59,5                       | 80,0                | 10,0             |
| SC           | 60,0                       | 70,0                | 7,0              |
| SC           | 60,0                       | 70,0                | 8,0              |
| TC           | 60,0                       | 70,0                | 8,0              |
| TC           | 60,0                       | 70,0                | 10,0             |
| TC           | 60,0                       | 70,0                | 12,0             |
| SC           | 60,0                       | 72,0                | 8,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC           | 60,0                       | 72,0                | 9,0              |
| TC           | 60,0                       | 72,0                | 10,0             |
| TC           | 60,0                       | 72,0                | 12,0             |
| SC           | 60,0                       | 74,0                | 10,0             |
| TC           | 60,0                       | 74,0                | 10,0             |
| SC           | 60,0                       | 75,0                | 8,0              |
| SC           | 60,0                       | 75,0                | 8,0              |
| TC           | 60,0                       | 75,0                | 8,0              |
| SC           | 60,0                       | 75,0                | 9,0              |
| TC           | 60,0                       | 75,0                | 9,0              |
| TC           | 60,0                       | 75,0                | 10,0             |
| TC           | 60,0                       | 75,0                | 12,0             |
| TC           | 60,0                       | 76,0                | 9,0              |
| TC           | 60,0                       | 77,0                | 9,0              |
| TC           | 60,0                       | 77,0                | 12,0             |
| SC           | 60,0                       | 78,0                | 9,0              |
| TC           | 60,0                       | 78,0                | 9,0              |
| TC           | 60,0                       | 78,0                | 10,0             |
| TC           | 60,0                       | 79,5                | 10,0             |
| TC           | 60,0                       | 80,0                | 7,0              |
| SC           | 60,0                       | 80,0                | 8,0              |
| TC           | 60,0                       | 80,0                | 8,0              |
| TC           | 60,0                       | 80,0                | 9,0              |
| SC           | 60,0                       | 80,0                | 10,0             |
| SC           | 60,0                       | 80,0                | 10,0             |
| TC           | 60,0                       | 80,0                | 10,0             |
| SC           | 60,0                       | 80,0                | 12,0             |
| TC           | 60,0                       | 80,0                | 12,0             |
| SC           | 60,0                       | 80,0                | 13,0             |
| TC           | 60,0                       | 80,0                | 13,0             |
| TC           | 60,0                       | 82,0                | 7,0              |
| TC           | 60,0                       | 82,0                | 8,0              |
| TC           | 60,0                       | 82,0                | 9,0              |
| SC           | 60,0                       | 82,0                | 12,0             |
| TC           | 60,0                       | 82,0                | 12,0             |
| TC           | 60,0                       | 84,0                | 10,0             |
| TC           | 60,0                       | 85,0                | 6,0              |
| TC           | 60,0                       | 85,0                | 7,0              |
| SC           | 60,0                       | 85,0                | 8,0              |
| TC           | 60,0                       | 85,0                | 8,0              |
| SC           | 60,0                       | 85,0                | 10,0             |
| TC           | 60,0                       | 85,0                | 10,0             |
| SC           | 60,0                       | 85,0                | 12,0             |
| TC           | 60,0                       | 85,0                | 12,0             |
| SC           | 60,0                       | 85,0                | 13,0             |
| TC           | 60,0                       | 85,0                | 13,0             |
| TC           | 60,0                       | 85,5                | 12,0             |
| TC           | 60,0                       | 85,5                | 16,0             |
| TC           | 60,0                       | 86,0                | 10,0             |
| SC           | 60,0                       | 90,0                | 8,0              |
| TC           | 60,0                       | 90,0                | 8,0              |
| SC           | 60,0                       | 90,0                | 10,0             |
| TC           | 60,0                       | 90,0                | 10,0             |
| TC           | 60,0                       | 90,0                | 11,0             |
| TC           | 60,0                       | 90,0                | 12,0             |
| TC           | 60,0                       | 90,0                | 13,0             |
| TC           | 60,0                       | 92,0                | 12,0             |
| TC           | 60,0                       | 95,0                | 8,0              |
| SC           | 60,0                       | 95,0                | 10,0             |
| TC           | 60,0                       | 95,0                | 10,0             |
| TC           | 60,0                       | 95,0                | 11,0             |
| TC           | 60,0                       | 95,0                | 12,0             |





| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| TC           | 60,0                       | 95,0                 | 13,0             |
| SC           | 60,0                       | 100,0                | 10,0             |
| TC           | 60,0                       | 100,0                | 10,0             |
| TC           | 60,0                       | 100,0                | 12,0             |
| TC           | 60,0                       | 100,0                | 13,0             |
| TC           | 60,0                       | 104,0                | 12,0             |
| SC           | 60,0                       | 110,0                | 10,0             |
| TC           | 60,0                       | 110,0                | 10,0             |
| SC           | 60,0                       | 110,0                | 12,0             |
| TC           | 60,0                       | 110,0                | 12,0             |
| TC           | 60,0                       | 120,0                | 13,0             |
| TC           | 60,0                       | 130,0                | 10,0             |
| SC           | 60,3                       | 73,0                 | 7,9              |
| SC           | 60,3                       | 76,2                 | 7,9              |
| SC           | 60,3                       | 76,2                 | 9,5              |
| TC           | 60,3                       | 77,8                 | 12,7             |
| SC           | 60,3                       | 79,4                 | 9,5              |
| TC           | 60,3                       | 79,4                 | 9,5              |
| TC           | 60,3                       | 82,6                 | 11,9             |
| SC           | 60,3                       | 82,6                 | 12,7             |
| TC           | 60,3                       | 82,6                 | 9,5              |
| SC           | 60,3                       | 84,9                 | 12,7             |
| SC           | 60,3                       | 85,7                 | 12,7             |
| TC           | 60,3                       | 85,7                 | 12,7             |
| SC           | 60,3                       | 88,9                 | 9,5              |
| TC           | 60,3                       | 88,9                 | 9,5              |
| TC           | 60,3                       | 88,9                 | 15,9             |
| SC           | 60,3                       | 95,3                 | 12,7             |
| TC           | 60,3                       | 95,3                 | 12,7             |
| TC           | 60,5                       | 78,0                 | 10,0             |
| TC           | 61,9                       | 82,6                 | 9,5              |
| TC           | 61,9                       | 82,6                 | 11,1             |
| TC           | 61,9                       | 92,1                 | 9,5              |
| TC           | 62,0                       | 70,0                 | 12,0             |
| TC           | 62,0                       | 75,0                 | 10,0             |
| TC           | 62,0                       | 75,0                 | 12,0             |
| TC           | 62,0                       | 78,0                 | 10,0             |
| TC           | 62,0                       | 78,0                 | 12,0             |
| TC           | 62,0                       | 80,0                 | 9,0              |
| SC           | 62,0                       | 80,0                 | 10,0             |
| TC           | 62,0                       | 80,0                 | 10,0             |
| TC           | 62,0                       | 80,0                 | 12,0             |
| TC           | 62,0                       | 81,0                 | 10,0             |
| TC           | 62,0                       | 82,0                 | 10,0             |
| TC           | 62,0                       | 82,0                 | 12,0             |
| TC           | 62,0                       | 85,0                 | 8,0              |
| SC           | 62,0                       | 85,0                 | 10,0             |
| TC           | 62,0                       | 85,0                 | 10,0             |
| TC           | 62,0                       | 85,0                 | 12,0             |
| TC           | 62,0                       | 88,0                 | 12,0             |
| TC           | 62,0                       | 89,0                 | 12,0             |
| SC           | 62,0                       | 90,0                 | 10,0             |
| TC           | 62,0                       | 90,0                 | 10,0             |
| TC           | 62,0                       | 90,0                 | 12,0             |
| TC           | 62,0                       | 90,0                 | 13,0             |
| TC           | 62,0                       | 93,0                 | 12,0             |
| SC           | 62,0                       | 95,0                 | 10,0             |
| TC           | 62,0                       | 95,0                 | 10,0             |
| TC           | 62,0                       | 95,0                 | 12,0             |
| TC           | 62,0                       | 100,0                | 10,0             |
| SC           | 62,0                       | 100,0                | 12,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| TC           | 62,0                       | 100,0                | 12,0             |
| TC           | 62,0                       | 110,0                | 13,0             |
| SC           | 62,7                       | 77,8                 | 11,1             |
| TC           | 63,0                       | 80,0                 | 9,0              |
| TC           | 63,0                       | 80,0                 | 10,0             |
| TC           | 63,0                       | 80,0                 | 12,0             |
| TC           | 63,0                       | 82,5                 | 10,0             |
| SC           | 63,0                       | 83,0                 | 8,0              |
| TC           | 63,0                       | 85,0                 | 12,0             |
| TC           | 63,0                       | 88,0                 | 10,0             |
| TC           | 63,0                       | 88,0                 | 12,0             |
| SC           | 63,0                       | 90,0                 | 10,0             |
| TC           | 63,0                       | 90,0                 | 10,0             |
| TC           | 63,0                       | 90,0                 | 12,0             |
| TC           | 63,0                       | 90,0                 | 13,0             |
| SC           | 63,0                       | 100,0                | 10,0             |
| TC           | 63,0                       | 100,0                | 10,0             |
| TC           | 63,0                       | 100,0                | 13,0             |
| SC           | 63,5                       | 76,2                 | 9,5              |
| SC           | 63,5                       | 82,6                 | 9,5              |
| TC           | 63,5                       | 82,6                 | 12,7             |
| TC           | 63,5                       | 83,3                 | 9,5              |
| TC           | 63,5                       | 85,0                 | 12,0             |
| SC           | 63,5                       | 85,7                 | 12,7             |
| SC           | 63,5                       | 88,9                 | 12,7             |
| TC           | 63,5                       | 88,9                 | 12,7             |
| TC           | 63,5                       | 90,0                 | 11,1             |
| SC           | 63,5                       | 90,5                 | 11,1             |
| SC           | 63,5                       | 92,1                 | 12,7             |
| SC           | 63,5                       | 95,0                 | 10,0             |
| TC           | 63,5                       | 95,3                 | 12,7             |
| SC           | 63,5                       | 101,6                | 11,9             |
| SC           | 63,5                       | 101,6                | 12,7             |
| TC           | 64,0                       | 80,0                 | 8,0              |
| TC           | 64,0                       | 80,0                 | 10,0             |
| TC           | 64,0                       | 80,0                 | 12,0             |
| TC           | 64,0                       | 80,0                 | 13,0             |
| TC           | 64,0                       | 85,0                 | 10,0             |
| TC           | 64,0                       | 85,0                 | 12,0             |
| TC           | 64,0                       | 95,0                 | 10,0             |
| TC           | 64,0                       | 120,0                | 12,0             |
| SC           | 65,0                       | 75,0                 | 5,0              |
| TC           | 65,0                       | 75,0                 | 8,0              |
| TC           | 65,0                       | 75,0                 | 10,0             |
| TC           | 65,0                       | 75,0                 | 12,0             |
| TC           | 65,0                       | 78,0                 | 12,0             |
| SC           | 65,0                       | 80,0                 | 6,0              |
| TC           | 65,0                       | 80,0                 | 7,0              |
| SC           | 65,0                       | 80,0                 | 8,0              |
| TC           | 65,0                       | 80,0                 | 8,0              |
| SC           | 65,0                       | 80,0                 | 10,0             |
| TC           | 65,0                       | 80,0                 | 10,0             |
| TC           | 65,0                       | 80,0                 | 12,0             |
| TC           | 65,0                       | 82,0                 | 9,0              |
| SC           | 65,0                       | 82,0                 | 10,0             |
| TC           | 65,0                       | 82,0                 | 10,0             |
| TC           | 65,0                       | 82,0                 | 12,0             |
| TC           | 65,0                       | 83,0                 | 8,5              |
| SC           | 65,0                       | 85,0                 | 8,0              |
| TC           | 65,0                       | 85,0                 | 8,0              |
| SC           | 65,0                       | 85,0                 | 10,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| TC           | 65,0                       | 85,0                 | 10,0             |
| TC           | 65,0                       | 85,0                 | 12,0             |
| SC           | 65,0                       | 85,0                 | 13,0             |
| TC           | 65,0                       | 85,0                 | 13,0             |
| TC           | 65,0                       | 88,0                 | 8,0              |
| TC           | 65,0                       | 88,0                 | 10,0             |
| TC           | 65,0                       | 88,0                 | 12,0             |
| TC           | 65,0                       | 88,0                 | 13,0             |
| TC           | 65,0                       | 89,0                 | 12,0             |
| TC           | 65,0                       | 90,0                 | 7,0              |
| TC           | 65,0                       | 90,0                 | 8,0              |
| SC           | 65,0                       | 90,0                 | 10,0             |
| TC           | 65,0                       | 90,0                 | 10,0             |
| SC           | 65,0                       | 90,0                 | 12,0             |
| TC           | 65,0                       | 90,0                 | 12,0             |
| SC           | 65,0                       | 90,0                 | 13,0             |
| TC           | 65,0                       | 90,0                 | 13,0             |
| TC           | 65,0                       | 92,0                 | 10,0             |
| SC           | 65,0                       | 95,0                 | 10,0             |
| TC           | 65,0                       | 95,0                 | 10,0             |
| TC           | 65,0                       | 95,0                 | 12,0             |
| TC           | 65,0                       | 95,0                 | 13,0             |
| TC           | 65,0                       | 95,0                 | 14,0             |
| TC           | 65,0                       | 100,0                | 8,0              |
| TC           | 65,0                       | 100,0                | 9,5              |
| SC           | 65,0                       | 100,0                | 10,0             |
| TC           | 65,0                       | 100,0                | 10,0             |
| SC           | 65,0                       | 100,0                | 12,0             |
| TC           | 65,0                       | 100,0                | 12,0             |
| TC           | 65,0                       | 100,0                | 13,0             |
| TC           | 65,0                       | 102,0                | 13,0             |
| TC           | 65,0                       | 105,0                | 12,0             |
| TC           | 65,0                       | 110,0                | 10,0             |
| TC           | 65,0                       | 110,0                | 12,0             |
| TC           | 65,0                       | 110,0                | 13,0             |
| TC           | 65,0                       | 115,0                | 12,0             |
| TC           | 65,0                       | 115,0                | 13,0             |
| SC           | 65,0                       | 120,0                | 10,0             |
| TC           | 65,0                       | 120,0                | 10,0             |
| TC           | 65,0                       | 120,0                | 12,0             |
| TC           | 65,0                       | 120,0                | 13,0             |
| TC           | 65,0                       | 120,0                | 15,0             |
| TC           | 65,0                       | 140,0                | 14,0             |
| TC           | 65,1                       | 92,1                 | 11,1             |
| TC           | 65,1                       | 95,3                 | 12,7             |
| TC           | 65,9                       | 82,6                 | 12,7             |
| SC           | 66,0                       | 85,0                 | 10,0             |
| SC           | 66,7                       | 85,1                 | 9,5              |
| TC           | 66,7                       | 85,7                 | 9,5              |
| SC           | 66,7                       | 88,9                 | 9,5              |
| SC           | 66,7                       | 90,1                 | 11,9             |
| TC           | 66,7                       | 92,1                 | 9,5              |
| TC           | 66,7                       | 92,1                 | 12,7             |
| TC           | 66,7                       | 95,3                 | 9,5              |
| SC           | 66,7                       | 95,3                 | 12,7             |
| TC           | 66,7                       | 95,3                 | 15,9             |
| TC           | 66,7                       | 98,4                 | 9,5              |
| TC           | 66,7                       | 95,3                 | 12,7             |
| TC           | 67,0                       | 82,0                 | 7,0              |
| TC           | 67,0                       | 85,0                 | 10,0             |
| TC           | 68,0                       | 80,0                 | 8,0              |
| SC           | 68,0                       | 80,0                 | 10,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |
| TC           | 68,0                       | 80,0                 | 10,0             |
| SC           | 68,0                       | 82,0                 | 7,0              |
| TC           | 68,0                       | 82,0                 | 7,0              |
| TC           | 68,0                       | 82,0                 | 10,0             |
| TC           | 68,0                       | 82,7                 | 7,5              |
| SC           | 68,0                       | 85,0                 | 10,0             |
| TC           | 68,0                       | 85,0                 | 10,0             |
| TC           | 68,0                       | 88,0                 | 10,0             |
| TC           | 68,0                       | 90,0                 | 8,0              |
| SC           | 68,0                       | 90,0                 | 10,0             |
| TC           | 68,0                       | 90,0                 | 10,0             |
| TC           | 68,0                       | 90,0                 | 12,0             |
| TC           | 68,0                       | 90,0                 | 13,0             |
| TC           | 68,0                       | 92,0                 | 12,0             |
| TC           | 68,0                       | 95,0                 | 8,0              |
| SC           | 68,0                       | 95,0                 | 10,0             |
| TC           | 68,0                       | 95,0                 | 13,0             |
| TC           | 68,0                       | 98,0                 | 10,0             |
| SC           | 68,0                       | 100,0                | 10,0             |
| TC           | 68,0                       | 100,0                | 10,0             |
| TC           | 68,0                       | 100,0                | 12,0             |
| SC           | 68,0                       | 100,0                | 13,0             |
| TC           | 68,0                       | 100,0                | 13,0             |
| SC           | 68,0                       | 110,0                | 13,0             |
| SC           | 68,0                       | 115,0                | 13,0             |
| SC           | 68,0                       | 115,0                | 13,0             |
| TC           | 68,3                       | 101,6                | 12,7             |
| SC           | 68,3                       | 95,3                 | 12,7             |
| TC           | 68,3                       | 98,4                 | 9,5              |
| TC           | 69,0                       | 89,0                 | 13,0             |
| TC           | 69,0                       | 92,0                 | 12,0             |
| TC           | 69,0                       | 110,0                | 10,0             |
| SC           | 69,9                       | 88,9                 | 9,5              |
| SC           | 69,9                       | 88,9                 | 9,5              |
| TC           | 69,9                       | 88,9                 | 9,5              |
| SC           | 69,9                       | 88,9                 | 12,7             |
| SC           | 69,9                       | 90,1                 | 12,7             |
| TC           | 69,9                       | 92,1                 | 9,5              |
| SC           | 69,9                       | 95,3                 | 11,1             |
| SC           | 69,9                       | 95,3                 | 12,7             |
| TC           | 69,9                       | 98,4                 | 12,7             |
| SC           | 69,9                       | 101,6                | 12,7             |
| TC           | 70,0                       | 80,0                 | 6,0              |
| TC           | 70,0                       | 80,0                 | 8,0              |
| TC           | 70,0                       | 80,0                 | 10,0             |
| TC           | 70,0                       | 80,0                 | 12,0             |
| SC           | 70,0                       | 81,5                 | 6,0              |
| TC           | 70,0                       | 81,5                 | 6,0              |
| TC           | 70,0                       | 82,0                 | 8,5              |
| TC           | 70,0                       | 83,0                 | 10,0             |
| SC           | 70,0                       | 85,0                 | 7,0              |
| SC           | 70,0                       | 85,0                 | 8,0              |
| TC           | 70,0                       | 85,0                 | 8,0              |
| TC           | 70,0                       | 85,0                 | 9,0              |
| TC           | 70,0                       | 85,0                 | 10,0             |
| TC           | 70,0                       | 85,0                 | 12,0             |
| SC           | 70,0                       | 86,0                 | 12,0             |
| TC           | 70,0                       | 87,0                 | 10,0             |
| TC           | 70,0                       | 88,0                 | 8,0              |
| TC           | 70,0                       | 88,0                 | 10,0             |
| TC           | 70,0                       | 88,0                 | 12,0             |
| TC           | 70,0                       | 90,0                 | 7,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC           | 70,0                       | 90,0                | 8,0              |
| SC           | 70,0                       | 90,0                | 10,0             |
| SC           | 70,0                       | 90,0                | 10,0             |
| TC           | 70,0                       | 90,0                | 10,0             |
| SC           | 70,0                       | 90,0                | 12,0             |
| TC           | 70,0                       | 90,0                | 12,0             |
| TC           | 70,0                       | 90,0                | 13,0             |
| TC           | 70,0                       | 90,1                | 10,5             |
| TC           | 70,0                       | 92,0                | 9,0              |
| TC           | 70,0                       | 92,0                | 10,0             |
| TC           | 70,0                       | 92,0                | 12,0             |
| SC           | 70,0                       | 95,0                | 10,0             |
| TC           | 70,0                       | 95,0                | 10,0             |
| TC           | 70,0                       | 95,0                | 12,0             |
| SC           | 70,0                       | 95,0                | 13,0             |
| TC           | 70,0                       | 95,0                | 13,0             |
| SC           | 70,0                       | 100,0               | 10,0             |
| TC           | 70,0                       | 100,0               | 10,0             |
| SC           | 70,0                       | 100,0               | 12,0             |
| TC           | 70,0                       | 100,0               | 12,0             |
| TC           | 70,0                       | 100,0               | 13,0             |
| TC           | 70,0                       | 100,0               | 14,0             |
| TC           | 70,0                       | 102,0               | 12,0             |
| TC           | 70,0                       | 102,0               | 13,0             |
| TC           | 70,0                       | 105,0               | 10,0             |
| TC           | 70,0                       | 105,0               | 12,0             |
| SC           | 70,0                       | 105,0               | 13,0             |
| TC           | 70,0                       | 105,0               | 13,0             |
| SC           | 70,0                       | 110,0               | 8,0              |
| SC           | 70,0                       | 110,0               | 10,0             |
| TC           | 70,0                       | 110,0               | 10,0             |
| SC           | 70,0                       | 110,0               | 12,0             |
| TC           | 70,0                       | 110,0               | 12,0             |
| SC           | 70,0                       | 110,0               | 13,0             |
| TC           | 70,0                       | 110,0               | 13,0             |
| TC           | 70,0                       | 112,0               | 13,0             |
| TC           | 70,0                       | 115,0               | 12,0             |
| TC           | 70,0                       | 115,0               | 13,0             |
| TC           | 70,0                       | 115,0               | 15,0             |
| TC           | 70,0                       | 120,0               | 12,0             |
| SC           | 70,0                       | 120,0               | 13,0             |
| TC           | 70,0                       | 120,0               | 13,0             |
| TC           | 70,0                       | 125,0               | 12,0             |
| TC           | 70,0                       | 125,0               | 13,0             |
| SC           | 71,0                       | 88,0                | 8,0              |
| TC           | 71,0                       | 88,0                | 8,0              |
| TC           | 72,0                       | 86,0                | 7,5              |
| TC           | 72,0                       | 86,0                | 9,0              |
| TC           | 72,0                       | 90,0                | 8,0              |
| SC           | 72,0                       | 90,0                | 10,0             |
| TC           | 72,0                       | 90,0                | 10,0             |
| SC           | 72,0                       | 92,0                | 9,5              |
| TC           | 72,0                       | 92,0                | 9,5              |
| TC           | 72,0                       | 92,0                | 12,0             |
| TC           | 72,0                       | 94,0                | 12,0             |
| SC           | 72,0                       | 95,0                | 10,0             |
| TC           | 72,0                       | 95,0                | 10,0             |
| SC           | 72,0                       | 95,0                | 12,0             |
| TC           | 72,0                       | 95,0                | 12,0             |
| TC           | 72,0                       | 95,0                | 13,0             |
| SC           | 72,0                       | 100,0               | 10,0             |
| TC           | 72,0                       | 100,0               | 10,0             |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| SC           | 72,0                       | 100,0            | 12,0          |
| TC           | 72,0                       | 105,0            | 13,0          |
| TC           | 72,0                       | 110,0            | 10,0          |
| TC           | 72,0                       | 115,0            | 10,0          |
| TC           | 73,0                       | 90,0             | 8,0           |
| TC           | 73,0                       | 98,0             | 12,0          |
| TC           | 73,0                       | 100,0            | 10,0          |
| TC           | 73,0                       | 90,5             | 11,9          |
| SC           | 73,0                       | 92,1             | 9,5           |
| TC           | 73,0                       | 92,1             | 9,5           |
| SC           | 73,0                       | 95,3             | 12,7          |
| TC           | 73,0                       | 95,3             | 9,5           |
| SC           | 73,0                       | 98,4             | 12,7          |
| SC           | 73,0                       | 101,6            | 9,5           |
| SC           | 73,0                       | 101,6            | 12,7          |
| TC           | 73,0                       | 101,6            | 12,7          |
| TC           | 73,1                       | 102,0            | 9,8           |
| TC           | 74,0                       | 90,0             | 10,0          |
| TC           | 74,0                       | 94,0             | 10,0          |
| TC           | 74,0                       | 95,0             | 7,0           |
| TC           | 74,0                       | 100,0            | 13,0          |
| TC           | 74,6                       | 95,3             | 9,5           |
| TC           | 74,6                       | 100,0            | 11,1          |
| TC           | 74,6                       | 101,6            | 9,5           |
| SC           | 75,0                       | 85,0             | 7,0           |
| SC           | 75,0                       | 90,0             | 8,0           |
| TC           | 75,0                       | 90,0             | 8,0           |
| SC           | 75,0                       | 90,0             | 10,0          |
| TC           | 75,0                       | 90,0             | 10,0          |
| TC           | 75,0                       | 90,0             | 12,0          |
| SC           | 75,0                       | 91,0             | 12,0          |
| TC           | 75,0                       | 92,0             | 12,0          |
| TC           | 75,0                       | 95,0             | 8,0           |
| SC           | 75,0                       | 95,0             | 10,0          |
| TC           | 75,0                       | 95,0             | 10,0          |
| SC           | 75,0                       | 95,0             | 12,0          |
| TC           | 75,0                       | 95,0             | 12,0          |
| SC           | 75,0                       | 95,0             | 13,0          |
| TC           | 75,0                       | 95,0             | 13,0          |
| TC           | 75,0                       | 100,0            | 7,0           |
| SC           | 75,0                       | 100,0            | 10,0          |
| TC           | 75,0                       | 100,0            | 10,0          |
| TC           | 75,0                       | 100,0            | 12,0          |
| TC           | 75,0                       | 100,0            | 12,0          |
| TC           | 75,0                       | 100,0            | 12,0          |
| TC           | 75,0                       | 100,0            | 12,0          |
| TC           | 75,0                       | 100,0            | 13,0          |
| TC           | 75,0                       | 102,0            | 13,0          |
| SC           | 75,0                       | 105,0            | 12,0          |
| SC           | 75,0                       | 105,0            | 13,0          |
| TC           | 75,0                       | 105,0            | 13,0          |
| TC           | 75,0                       | 105,0            | 15,0          |
| TC           | 75,0                       | 106,0            | 10,0          |
| TC           | 75,0                       | 108,0            | 13,0          |
| TC           | 75,0                       | 110,0            | 10,0          |
| SC           | 75,0                       | 110,0            | 12,0          |
| TC           | 75,0                       | 110,0            | 12,0          |
| SC           | 75,0                       | 110,0            | 13,0          |
| TC           | 75,0                       | 110,0            | 13,0          |
| TC           | 75,0                       | 115,0            | 8,0           |
| TC           | 75,0                       | 115,0            | 9,5           |
| SC           | 75,0                       | 115,0            | 10,0          |
| TC           | 75,0                       | 115,0            | 10,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| SC           | 75,0                       | 115,0            | 12,0          |
| TC           | 75,0                       | 115,0            | 13,0          |
| TC           | 75,0                       | 118,0            | 12,0          |
| TC           | 75,0                       | 120,0            | 10,0          |
| SC           | 75,0                       | 120,0            | 12,0          |
| TC           | 75,0                       | 120,0            | 12,0          |
| TC           | 75,0                       | 120,0            | 13,0          |
| TC           | 75,0                       | 121,0            | 13,0          |
| TC           | 75,0                       | 125,0            | 13,0          |
| TC           | 75,0                       | 130,0            | 10,0          |
| SC           | 75,0                       | 130,0            | 13,0          |
| TC           | 75,0                       | 130,0            | 13,0          |
| TC           | 75,0                       | 134,0            | 10,0          |
| TC           | 75,0                       | 150,0            | 12,0          |
| TC           | 76,0                       | 92,0             | 10,0          |
| TC           | 76,0                       | 94,0             | 12,0          |
| TC           | 76,0                       | 95,0             | 10,0          |
| TC           | 76,0                       | 105,0            | 12,0          |
| TC           | 76,0                       | 105,0            | 13,0          |
| SC           | 76,2                       | 88,9             | 6,4           |
| SC           | 76,2                       | 95,3             | 9,5           |
| TC           | 76,2                       | 95,3             | 9,5           |
| TC           | 76,2                       | 95,3             | 11,1          |
| TC           | 76,2                       | 98,4             | 11,1          |
| SC           | 76,2                       | 101,6            | 9,5           |
| TC           | 76,2                       | 101,6            | 11,1          |
| TC           | 76,2                       | 101,6            | 11,1          |
| SC           | 76,2                       | 101,6            | 12,7          |
| TC           | 76,2                       | 101,6            | 12,7          |
| SC           | 76,2                       | 104,8            | 11,1          |
| SC           | 76,2                       | 104,8            | 12,7          |
| SC           | 76,2                       | 108,0            | 12,7          |
| SC           | 77,0                       | 95,5             | 9,5           |
| TC           | 77,0                       | 100,0            | 10,0          |
| SC           | 77,2                       | 100,0            | 6,4           |
| TC           | 77,8                       | 104,8            | 12,7          |
| TC           | 78,0                       | 95,0             | 13,0          |
| SC           | 78,0                       | 100,0            | 10,0          |
| TC           | 78,0                       | 100,0            | 13,0          |
| TC           | 78,0                       | 105,0            | 13,0          |
| SC           | 78,0                       | 110,0            | 12,0          |
| TC           | 78,0                       | 110,0            | 12,0          |
| SC           | 78,0                       | 110,0            | 13,0          |
| TC           | 78,0                       | 110,0            | 13,0          |
| TC           | 78,0                       | 115,0            | 10,0          |
| TC           | 79,0                       | 95,7             | 11,1          |
| SC           | 79,0                       | 95,3             | 11,1          |
| TC           | 79,4                       | 98,4             | 10,2          |
| SC           | 79,4                       | 101,6            | 12,7          |
| SC           | 79,4                       | 104,8            | 9,5           |
| SC           | 79,4                       | 104,8            | 12,7          |
| SC           | 79,4                       | 114,3            | 12,7          |
| SC           | 79,4                       | 114,3            | 15,9          |
| TC           | 80,0                       | 90,0             | 10,0          |
| SC           | 80,0                       | 95,0             | 5,0           |
| TC           | 80,0                       | 95,0             | 8,0           |
| TC           | 80,0                       | 95,0             | 10,0          |
| TC           | 80,0                       | 98,0             | 10,0          |
| TC           | 80,0                       | 100,0            | 8,0           |
| SC           | 80,0                       | 100,0            | 10,0          |
| SC           | 80,0                       | 100,0            | 10,0          |
| TC           | 80,0                       | 100,0            | 10,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 80,0                       | 100,0            | 10,0          |
| SC           | 80,0                       | 100,0            | 12,0          |
| TC           | 80,0                       | 100,0            | 12,0          |
| SC           | 80,0                       | 100,0            | 13,0          |
| TC           | 80,0                       | 100,0            | 13,0          |
| SC           | 80,0                       | 105,0            | 10,0          |
| TC           | 80,0                       | 105,0            | 10,0          |
| TC           | 80,0                       | 105,0            | 12,0          |
| SC           | 80,0                       | 105,0            | 13,0          |
| TC           | 80,0                       | 105,0            | 13,0          |
| SC           | 80,0                       | 110,0            | 10,0          |
| TC           | 80,0                       | 110,0            | 10,0          |
| SC           | 80,0                       | 110,0            | 12,0          |
| TC           | 80,0                       | 110,0            | 12,0          |
| TC           | 80,0                       | 110,0            | 13,0          |
| SC           | 80,0                       | 115,0            | 10,0          |
| TC           | 80,0                       | 115,0            | 10,0          |
| TC           | 80,0                       | 115,0            | 12,0          |
| TC           | 80,0                       | 115,0            | 12,0          |
| TC           | 80,0                       | 115,0            | 13,0          |
| TC           | 80,0                       | 118,0            | 12,0          |
| TC           | 80,0                       | 119,0            | 12,0          |
| SC           | 80,0                       | 120,0            | 12,0          |
| SC           | 80,0                       | 120,0            | 13,0          |
| TC           | 80,0                       | 120,0            | 13,0          |
| TC           | 80,0                       | 125,0            | 10,0          |
| SC           | 80,0                       | 125,0            | 12,0          |
| TC           | 80,0                       | 125,0            | 12,0          |
| TC           | 80,0                       | 125,0            | 13,0          |
| TC           | 80,0                       | 125,0            | 14,0          |
| TC           | 80,0                       | 130,0            | 13,0          |
| TC           | 80,0                       | 132,0            | 15,0          |
| TC           | 80,0                       | 140,0            | 12,0          |
| TC           | 80,0                       | 140,0            | 13,0          |
| SC           | 81,0                       | 108,0            | 7,9           |
| SC           | 81,0                       | 108,0            | 12,7          |
| TC           | 82,0                       | 100,0            | 13,0          |
| TC           | 82,0                       | 105,0            | 10,0          |
| TC           | 82,0                       | 105,0            | 12,0          |
| TC           | 82,0                       | 105,0            | 13,0          |
| SC           | 82,0                       | 110,0            | 12,0          |
| SC           | 82,0                       | 110,0            | 13,0          |
| TC           | 82,0                       | 115,0            | 13,0          |
| TC           | 82,6                       | 101,6            | 12,7          |
| SC           | 82,6                       | 108,0            | 12,7          |
| TC           | 82,6                       | 108,0            | 12,7          |
| SC           | 82,6                       | 114,3            | 12,7          |
| SC           | 82,6                       | 117,5            | 12,7          |
| SC           | 82,6                       | 120,7            | 12,7          |
| TC           | 83,0                       | 104,0            | 9,0           |
| TC           | 83,0                       | 110,0            | 13,0          |
| TC           | 83,0                       | 117,0            | 14,0          |
| SC           | 84,0                       | 100,0            | 10,0          |
| TC           | 84,0                       | 100,0            | 10,0          |
| TC           | 84,1                       | 119,1            | 11,1          |
| SC           | 85,0                       | 100,0            | 6,0           |
| SC           | 85,0                       | 100,0            | 9,0           |
| TC           | 85,0                       | 100,0            | 9,0           |
| TC           | 85,0                       | 100,0            | 10,0          |
| TC           | 85,0                       | 100,0            | 12,0          |
| TC           | 85,0                       | 100,0            | 13,0          |
| TC           | 85,0                       | 102,0            | 12,0          |
| SC           | 85,0                       | 105,0            | 10,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 85,0                       | 105,0            | 10,0          |
| TC           | 85,0                       | 105,0            | 12,0          |
| SC           | 85,0                       | 105,0            | 13,0          |
| TC           | 85,0                       | 105,0            | 13,0          |
| SC           | 85,0                       | 110,0            | 10,0          |
| SC           | 85,0                       | 110,0            | 12,0          |
| TC           | 85,0                       | 110,0            | 12,0          |
| SC           | 85,0                       | 110,0            | 13,0          |
| TC           | 85,0                       | 110,0            | 13,0          |
| TC           | 85,0                       | 111,0            | 10,0          |
| TC           | 85,0                       | 114,5            | 12,0          |
| TC           | 85,0                       | 115,0            | 12,0          |
| SC           | 85,0                       | 115,0            | 13,0          |
| TC           | 85,0                       | 115,0            | 13,0          |
| SC           | 85,0                       | 115,0            | 15,0          |
| TC           | 85,0                       | 115,0            | 15,0          |
| TC           | 85,0                       | 120,0            | 10,0          |
| SC           | 85,0                       | 120,0            | 12,0          |
| TC           | 85,0                       | 120,0            | 12,0          |
| TC           | 85,0                       | 120,0            | 13,0          |
| TC           | 85,0                       | 120,0            | 15,0          |
| TC           | 85,0                       | 125,0            | 12,0          |
| TC           | 85,0                       | 125,0            | 13,0          |
| TC           | 85,0                       | 125,0            | 14,0          |
| TC           | 85,0                       | 130,0            | 10,0          |
| SC           | 85,0                       | 130,0            | 12,0          |
| TC           | 85,0                       | 130,0            | 12,0          |
| TC           | 85,0                       | 130,0            | 13,0          |
| TC           | 85,0                       | 130,0            | 14,0          |
| TC           | 85,0                       | 140,0            | 12,0          |
| TC           | 85,0                       | 150,0            | 12,0          |
| TC           | 85,7                       | 100,3            | 9,5           |
| SC           | 85,7                       | 101,6            | 12,7          |
| TC           | 85,7                       | 111,1            | 12,7          |
| TC           | 85,7                       | 117,7            | 9,5           |
| SC           | 85,7                       | 127,0            | 12,7          |
| TC           | 86,0                       | 100,0            | 10,0          |
| SC           | 87,3                       | 108,0            | 9,5           |
| SC           | 87,3                       | 114,3            | 12,7          |
| SC           | 87,3                       | 120,7            | 12,7          |
| TC           | 88,0                       | 104,0            | 10,0          |
| TC           | 88,0                       | 106,0            | 10,0          |
| TC           | 88,0                       | 108,0            | 11,0          |
| SC           | 88,0                       | 110,0            | 12,0          |
| TC           | 88,0                       | 160,0            | 13,0          |
| TC           | 88,9                       | 101,6            | 7,9           |
| SC           | 88,9                       | 104,8            | 9,5           |
| TC           | 88,9                       | 108,0            | 12,7          |
| TC           | 88,9                       | 109,0            | 6,4           |
| SC           | 88,9                       | 111,1            | 9,5           |
| SC           | 88,9                       | 111,1            | 12,7          |
| SC           | 88,9                       | 114,3            | 12,7          |
| TC           | 88,9                       | 114,3            | 12,7          |
| TC           | 88,9                       | 117,5            | 12,7          |
| TC           | 88,9                       | 120,7            | 12,7          |
| TC           | 88,9                       | 120,7            | 15,9          |
| SC           | 88,9                       | 127,0            | 11,9          |
| SC           | 88,9                       | 133,4            | 15,9          |
| SC           | 88,9                       | 136,5            | 12,7          |
| SC           | 89,0                       | 105,0            | 9,5           |
| TC           | 90,0                       | 100,0            | 7,0           |
| TC           | 90,0                       | 100,0            | 12,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC           | 90,0                       | 105,0               | 6,0              |
| TC           | 90,0                       | 105,0               | 10,0             |
| TC           | 90,0                       | 105,0               | 12,0             |
| TC           | 90,0                       | 105,0               | 13,0             |
| SC           | 90,0                       | 106,0               | 12,0             |
| TC           | 90,0                       | 110,0               | 8,0              |
| SC           | 90,0                       | 110,0               | 10,0             |
| TC           | 90,0                       | 110,0               | 10,0             |
| SC           | 90,0                       | 110,0               | 12,0             |
| TC           | 90,0                       | 110,0               | 12,0             |
| SC           | 90,0                       | 110,0               | 13,0             |
| TC           | 90,0                       | 110,0               | 13,0             |
| TC           | 90,0                       | 112,0               | 12,0             |
| TC           | 90,0                       | 112,7               | 13,0             |
| SC           | 90,0                       | 115,0               | 9,0              |
| TC           | 90,0                       | 115,0               | 10,0             |
| TC           | 90,0                       | 115,0               | 12,0             |
| SC           | 90,0                       | 115,0               | 13,0             |
| TC           | 90,0                       | 115,0               | 13,0             |
| TC           | 90,0                       | 118,0               | 12,0             |
| TC           | 90,0                       | 120,0               | 10,0             |
| SC           | 90,0                       | 120,0               | 12,0             |
| TC           | 90,0                       | 120,0               | 12,0             |
| TC           | 90,0                       | 120,0               | 13,0             |
| TC           | 90,0                       | 125,0               | 12,0             |
| TC           | 90,0                       | 125,0               | 13,0             |
| TC           | 90,0                       | 125,0               | 15,0             |
| TC           | 90,0                       | 130,0               | 10,0             |
| SC           | 90,0                       | 130,0               | 12,0             |
| TC           | 90,0                       | 130,0               | 12,0             |
| TC           | 90,0                       | 130,0               | 13,0             |
| TC           | 90,0                       | 135,0               | 13,0             |
| TC           | 90,0                       | 140,0               | 12,0             |
| SC           | 90,0                       | 140,0               | 13,0             |
| TC           | 90,0                       | 160,0               | 10,0             |
| TC           | 91,0                       | 111,0               | 10,0             |
| TC           | 92,0                       | 108,0               | 8,0              |
| SC           | 92,0                       | 110,0               | 10,0             |
| TC           | 92,0                       | 110,0               | 10,0             |
| TC           | 92,0                       | 120,0               | 12,0             |
| SC           | 92,1                       | 114,3               | 12,7             |
| TC           | 92,1                       | 117,5               | 12,7             |
| TC           | 92,1                       | 127,0               | 12,7             |
| TC           | 92,7                       | 111,1               | 11,1             |
| TC           | 92,9                       | 120,7               | 12,7             |
| SC           | 93,6                       | 142,8               | 12,7             |
| SC           | 93,7                       | 120,7               | 12,7             |
| TC           | 93,7                       | 130,2               | 12,7             |
| TC           | 93,7                       | 142,9               | 12,7             |
| TC           | 94,0                       | 170,0               | 8,0              |
| TC           | 95,0                       | 105,0               | 13,0             |
| SC           | 95,0                       | 110,0               | 6,0              |
| SC           | 95,0                       | 110,0               | 10,0             |
| TC           | 95,0                       | 110,0               | 10,0             |
| TC           | 95,0                       | 110,0               | 11,0             |
| SC           | 95,0                       | 110,0               | 12,0             |
| TC           | 95,0                       | 110,0               | 12,0             |
| TC           | 95,0                       | 110,0               | 13,0             |
| TC           | 95,0                       | 115,0               | 10,0             |
| TC           | 95,0                       | 115,0               | 12,0             |
| SC           | 95,0                       | 115,0               | 13,0             |
| TC           | 95,0                       | 115,0               | 13,0             |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |
| SC           | 95,0                       | 120,0                | 8,0              |
| TC           | 95,0                       | 120,0                | 8,0              |
| TC           | 95,0                       | 120,0                | 10,0             |
| SC           | 95,0                       | 120,0                | 12,0             |
| TC           | 95,0                       | 120,0                | 12,0             |
| SC           | 95,0                       | 120,0                | 13,0             |
| TC           | 95,0                       | 120,0                | 13,0             |
| SC           | 95,0                       | 125,0                | 12,0             |
| TC           | 95,0                       | 125,0                | 12,0             |
| TC           | 95,0                       | 125,0                | 13,0             |
| SC           | 95,0                       | 130,0                | 12,0             |
| TC           | 95,0                       | 130,0                | 12,0             |
| TC           | 95,0                       | 130,0                | 13,0             |
| TC           | 95,0                       | 130,0                | 15,0             |
| TC           | 95,0                       | 135,0                | 12,0             |
| TC           | 95,0                       | 135,0                | 13,0             |
| TC           | 95,0                       | 136,0                | 12,0             |
| SC           | 95,0                       | 145,0                | 10,0             |
| TC           | 95,0                       | 145,0                | 13,0             |
| TC           | 95,0                       | 170,0                | 13,0             |
| TC           | 95,3                       | 114,3                | 11,1             |
| SC           | 95,3                       | 114,3                | 12,7             |
| SC           | 95,3                       | 114,3                | 9,2              |
| SC           | 95,3                       | 120,7                | 9,5              |
| SC           | 95,3                       | 120,7                | 12,7             |
| TC           | 95,3                       | 120,7                | 12,7             |
| SC           | 95,3                       | 127,0                | 12,7             |
| TC           | 95,3                       | 130,7                | 7,7              |
| TC           | 96,8                       | 123,8                | 12,7             |
| SC           | 98,0                       | 120,0                | 13,0             |
| TC           | 98,0                       | 120,0                | 13,0             |
| TC           | 98,4                       | 123,8                | 12,7             |
| SC           | 98,4                       | 127,0                | 12,7             |
| SC           | 100,0                      | 110,0                | 10,0             |
| TC           | 100,0                      | 110,0                | 12,0             |
| TC           | 100,0                      | 111,9                | 9,0              |
| TC           | 100,0                      | 114,0                | 10,0             |
| TC           | 100,0                      | 115,0                | 9,0              |
| TC           | 100,0                      | 115,0                | 10,0             |
| TC           | 100,0                      | 115,0                | 12,0             |
| TC           | 100,0                      | 115,0                | 13,0             |
| TC           | 100,0                      | 118,0                | 10,0             |
| SC           | 100,0                      | 120,0                | 7,5              |
| SC           | 100,0                      | 120,0                | 10,0             |
| TC           | 100,0                      | 120,0                | 10,0             |
| SC           | 100,0                      | 120,0                | 11,0             |
| TC           | 100,0                      | 120,0                | 11,0             |
| SC           | 100,0                      | 120,0                | 12,0             |
| TC           | 100,0                      | 120,0                | 12,0             |
| TC           | 100,0                      | 120,0                | 12,0             |
| SC           | 100,0                      | 120,0                | 13,0             |
| TC           | 100,0                      | 120,0                | 13,0             |
| SC           | 100,0                      | 122,6                | 10,0             |
| TC           | 100,0                      | 125,0                | 10,0             |
| SC           | 100,0                      | 125,0                | 12,0             |
| TC           | 100,0                      | 125,0                | 12,0             |
| TC           | 100,0                      | 125,0                | 13,0             |
| TC           | 100,0                      | 127,0                | 10,0             |
| TC           | 100,0                      | 130,0                | 10,0             |
| SC           | 100,0                      | 130,0                | 12,0             |
| TC           | 100,0                      | 130,0                | 12,0             |
| TC           | 100,0                      | 130,0                | 13,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |
| TC           | 100,0                      | 130,0                | 14,0             |
| TC           | 100,0                      | 135,0                | 10,0             |
| TC           | 100,0                      | 135,0                | 12,0             |
| TC           | 100,0                      | 135,0                | 13,0             |
| SC           | 100,0                      | 135,0                | 14,0             |
| TC           | 100,0                      | 135,0                | 14,0             |
| TC           | 100,0                      | 135,0                | 15,0             |
| SC           | 100,0                      | 140,0                | 12,0             |
| TC           | 100,0                      | 140,0                | 12,0             |
| SC           | 100,0                      | 140,0                | 13,0             |
| TC           | 100,0                      | 140,0                | 13,0             |
| TC           | 100,0                      | 145,0                | 14,0             |
| TC           | 100,0                      | 150,0                | 10,0             |
| SC           | 100,0                      | 150,0                | 12,0             |
| SC           | 100,0                      | 150,0                | 13,0             |
| TC           | 100,0                      | 150,0                | 13,0             |
| TC           | 100,0                      | 155,0                | 14,0             |
| TC           | 100,0                      | 155,0                | 16,0             |
| TC           | 100,0                      | 160,0                | 12,0             |
| TC           | 100,0                      | 170,0                | 15,0             |
| TC           | 100,0                      | 180,0                | 12,0             |
| TC           | 100,0                      | 127,0                | 12,7             |
| SC           | 101,6                      | 120,7                | 12,7             |
| SC           | 101,6                      | 127,0                | 7,9              |
| SC           | 101,6                      | 127,0                | 12,7             |
| TC           | 101,6                      | 127,0                | 12,7             |
| SC           | 101,6                      | 130,2                | 12,7             |
| SC           | 101,6                      | 133,4                | 15,9             |
| TC           | 101,6                      | 139,7                | 12,7             |
| SC           | 101,6                      | 146,1                | 12,7             |
| TC           | 102,0                      | 130,0                | 13,0             |
| SC           | 105,0                      | 120,0                | 13,0             |
| TC           | 105,0                      | 120,0                | 13,0             |
| TC           | 105,0                      | 125,0                | 10,0             |
| TC           | 105,0                      | 125,0                | 12,0             |
| SC           | 105,0                      | 125,0                | 13,0             |
| TC           | 105,0                      | 125,0                | 13,0             |
| SC           | 105,0                      | 130,0                | 12,0             |
| TC           | 105,0                      | 130,0                | 12,0             |
| TC           | 105,0                      | 130,0                | 13,0             |
| TC           | 105,0                      | 130,0                | 15,0             |
| TC           | 105,0                      | 135,0                | 12,0             |
| TC           | 105,0                      | 135,0                | 13,0             |
| TC           | 105,0                      | 135,0                | 14,0             |
| TC           | 105,0                      | 135,0                | 15,0             |
| SC           | 105,0                      | 135,0                | 16,0             |
| SC           | 105,0                      | 140,0                | 12,0             |
| TC           | 105,0                      | 140,0                | 12,0             |
| TC           | 105,0                      | 140,0                | 13,0             |
| SC           | 105,0                      | 140,0                | 14,0             |
| TC           | 105,0                      | 140,0                | 15,0             |
| TC           | 105,0                      | 145,0                | 12,0             |
| TC           | 105,0                      | 145,0                | 14,0             |
| TC           | 105,0                      | 145,0                | 15,0             |
| SC           | 105,0                      | 150,0                | 15,0             |
| SC           | 105,0                      | 160,0                | 12,0             |
| TC           | 105,0                      | 160,0                | 12,0             |
| TC           | 105,0                      | 160,0                | 12,0             |
| TC           | 106,0                      | 126,0                | 12,0             |
| TC           | 106,4                      | 133,4                | 12,7             |
| SC           | 108,0                      | 127,0                | 12,7             |
| SC           | 108,0                      | 133,4                | 12,7             |
| SC           | 108,0                      | 136,5                | 12,7             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |
| SC           | 108,0                      | 139,7                | 12,7             |
| SC           | 108,0                      | 139,7                | 14,3             |
| TC           | 108,0                      | 140,3                | 9,3              |
| SC           | 108,0                      | 152,4                | 14,3             |
| TC           | 108,0                      | 152,4                | 14,3             |
| SC           | 108,0                      | 152,4                | 19,1             |
| TC           | 110,0                      | 125,0                | 12,0             |
| SC           | 110,0                      | 130,0                | 10,0             |
| SC           | 110,0                      | 130,0                | 12,0             |
| TC           | 110,0                      | 130,0                | 12,0             |
| SC           | 110,0                      | 130,0                | 13,0             |
| TC           | 110,0                      | 130,0                | 13,0             |
| TC           | 110,0                      | 130,0                | 14,0             |
| SC           | 110,0                      | 131,5                | 10,8             |
| TC           | 110,0                      | 135,0                | 10,0             |
| SC           | 110,0                      | 135,0                | 12,0             |
| TC           | 110,0                      | 135,0                | 12,0             |
| TC           | 110,0                      | 135,0                | 13,0             |
| SC           | 110,0                      | 140,0                | 12,0             |
| TC           | 110,0                      | 140,0                | 12,0             |
| TC           | 110,0                      | 140,0                | 13,0             |
| TC           | 110,0                      | 140,0                | 14,0             |
| TC           | 110,0                      | 142,0                | 14,0             |
| TC           | 110,0                      | 145,0                | 13,0             |
| TC           | 110,0                      | 145,0                | 14,0             |
| TC           | 110,0                      | 145,0                | 15,0             |
| TC           | 110,0                      | 146,5                | 13,0             |
| SC           | 110,0                      | 150,0                | 13,0             |
| TC           | 110,0                      | 150,0                | 13,0             |
| TC           | 110,0                      | 150,0                | 14,0             |
| TC           | 110,0                      | 160,0                | 12,0             |
| TC           | 110,0                      | 160,0                | 14,0             |
| TC           | 110,0                      | 165,0                | 12,0             |
| TC           | 110,0                      | 167,0                | 17,0             |
| TC           | 110,0                      | 170,0                | 12,0             |
| SC           | 111,1                      | 136,5                | 12,7             |
| TC           | 111,1                      | 152,4                | 12,7             |
| TC           | 112,0                      | 140,0                | 13,0             |
| TC           | 112,0                      | 142,0                | 14,0             |
| SC           | 114,3                      | 133,4                | 9,5              |
| SC           | 114,3                      | 139,7                | 9,5              |
| SC           | 114,3                      | 139,7                | 12,7             |
| TC           | 114,3                      | 139,7                | 12,7             |
| SC           | 114,3                      | 142,9                | 12,7             |
| TC           | 114,3                      | 152,4                | 12,7             |
| TC           | 114,3                      | 155,6                | 14,3             |
| SC           | 115,0                      | 130,0                | 12,0             |
| TC           | 115,0                      | 130,0                | 12,0             |
| SC           | 115,0                      | 135,0                | 10,0             |
| SC           | 115,0                      | 135,0                | 13,0             |
| TC           | 115,0                      | 135,0                | 13,0             |
| SC           | 115,0                      | 140,0                | 12,0             |
| TC           | 115,0                      | 140,0                | 12,0             |
| SC           | 115,0                      | 140,0                | 13,0             |
| TC           | 115,0                      | 140,0                | 13,0             |
| TC           | 115,0                      | 140,0                | 14,0             |
| TC           | 115,0                      | 140,0                | 15,0             |
| TC           | 115,0                      | 145,0                | 13,0             |
| TC           | 115,0                      | 145,0                | 14,0             |
| TC           | 115,0                      | 145,0                | 16,0             |
| TC           | 115,0                      | 146,5                | 13,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |
| SC           | 115,0                      | 150,0                | 12,0             |
| TC           | 115,0                      | 150,0                | 12,0             |
| TC           | 115,0                      | 150,0                | 14,0             |
| TC           | 115,0                      | 150,0                | 15,0             |
| TC           | 115,0                      | 150,0                | 16,0             |
| TC           | 115,0                      | 159,0                | 14,0             |
| TC           | 115,0                      | 160,0                | 15,0             |
| TC           | 115,0                      | 170,0                | 12,0             |
| SC           | 115,0                      | 180,5                | 13,0             |
| TC           | 116,0                      | 132,0                | 12,0             |
| TC           | 117,4                      | 143,2                | 12,7             |
| SC           | 117,5                      | 142,9                | 12,7             |
| TC           | 117,5                      | 152,4                | 12,7             |
| SC           | 118,0                      | 140,0                | 13,0             |
| TC           | 120,0                      | 140,0                | 7,5              |
| SC           | 120,0                      | 140,0                | 10,0             |
| TC           | 120,0                      | 140,0                | 12,0             |
| SC           | 120,0                      | 140,0                | 13,0             |
| TC           | 120,0                      | 140,0                | 13,0             |
| TC           | 120,0                      | 140,0                | 14,0             |
| TC           | 120,0                      | 140,0                | 15,0             |
| TC           | 120,0                      | 145,0                | 12,0             |
| TC           | 120,0                      | 145,0                | 15,0             |
| TC           | 120,0                      | 146,0                | 13,0             |
| TC           | 120,0                      | 146,5                | 13,0             |
| SC           | 120,0                      | 150,0                | 12,0             |
| TC           | 120,0                      | 150,0                | 12,0             |
| SC           | 120,0                      | 150,0                | 13,0             |
| TC           | 120,0                      | 150,0                | 13,0             |
| TC           | 120,0                      | 150,0                | 14,0             |
| TC           | 120,0                      | 150,0                | 15,0             |
| TC           | 120,0                      | 155,0                | 14,0             |
| TC           | 120,0                      | 155,0                | 15,0             |
| TC           | 120,0                      | 155,0                | 16,0             |
| TC           | 120,0                      | 159,0                | 14,0             |
| SC           | 120,0                      | 160,0                | 12,0             |
| TC           | 120,0                      | 160,0                | 12,0             |
| TC           | 120,0                      | 160,0                | 13,0             |
| TC           | 120,0                      | 160,0                | 14,0             |
| TC           | 120,0                      | 160,0                | 15,0             |
| TC           | 120,0                      | 160,0                | 16,0             |
| TC           | 120,0                      | 162,0                | 14,0             |
| TC           | 120,0                      | 165,0                | 14,0             |
| TC           | 120,0                      | 170,0                | 12,0             |
| TC           | 120,0                      | 180,0                | 13,0             |
| TC           | 120,0                      | 180,0                | 15,0             |
| TC           | 120,0                      | 200,0                | 14,0             |
| TC           | 120,0                      | 215,0                | 15,0             |
| SC           | 120,7                      | 139,7                | 9,5              |
| TC           | 120,7                      | 146,1                | 12,7             |
| TC           | 120,7                      | 146,1                | 12,7             |
| TC           | 120,7                      | 146,4                | 12,7             |
| TC           | 120,7                      | 146,7                | 9,3              |
| SC           | 120,7                      | 152,4                | 14,3             |
| TC           | 122,0                      | 140,0                | 13,0             |
| SC           | 122,2                      | 141,3                | 10,3             |
| TC           | 123,8                      | 146,1                | 11,1             |
| TC           | 123,8                      | 152,4                | 9,5              |
| TC           | 124,0                      | 159,0                | 14,0             |
| TC           | 124,0                      | 170,0                | 14,5             |
| TC           | 125,0                      | 143,0                | 13,0             |
| TC           | 125,0                      | 145,0                | 12,0             |
| TC           | 125,0                      | 145,0                | 13,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |
| TC           | 125,0                      | 145,0                | 14,0             |
| TC           | 125,0                      | 146,5                | 13,0             |
| SC           | 125,0                      | 150,0                | 12,0             |
| TC           | 125,0                      | 150,0                | 12,0             |
| SC           | 125,0                      | 150,0                | 13,0             |
| TC           | 125,0                      | 150,0                | 13,0             |
| TC           | 125,0                      | 150,0                | 13,0             |
| TC           | 125,0                      | 150,0                | 14,0             |
| TC           | 125,0                      | 150,0                | 15,0             |
| TC           | 125,0                      | 152,0                | 12,0             |
| TC           | 125,0                      | 155,0                | 14,0             |
| SC           | 125,0                      | 160,0                | 12,0             |
| SC           | 125,0                      | 160,0                | 13,0             |
| TC           | 125,0                      | 160,0                | 14,0             |
| TC           | 125,0                      | 160,0                | 15,0             |
| SC           | 125,0                      | 160,0                | 16,0             |
| TC           | 125,0                      | 175,0                | 13,0             |
| TC           | 125,4                      | 152,4                | 12,7             |
| TC           | 127,0                      | 146,1                | 12,7             |
| TC           | 127,0                      | 150,0                | 13,0             |
| SC           | 127,0                      | 152,4                | 12,7             |
| SC           | 127,0                      | 158,8                | 14,3             |
| SC           | 127,0                      | 171,5                | 14,3             |
| TC           | 128,0                      | 150,0                | 13,0             |
| TC           | 128,6                      | 155,6                | 12,7             |
| TC           | 130,0                      | 140,0                | 12,0             |
| TC           | 130,0                      | 150,0                | 10,0             |
| TC           | 130,0                      | 150,0                | 12,0             |
| TC           | 130,0                      | 150,0                | 13,0             |
| SC           | 130,0                      | 155,0                | 10,0             |
| TC           | 130,0                      | 155,0                | 10,0             |
| TC           | 130,0                      | 155,0                | 14,0             |
| SC           | 130,0                      | 160,0                | 12,0             |
| TC           | 130,0                      | 160,0                | 12,0             |
| TC           | 130,0                      | 160,0                | 13,0             |
| TC           | 130,0                      | 160,0                | 14,0             |
| TC           | 130,0                      | 160,0                | 15,0             |
| TC           | 130,0                      | 165,0                | 13,0             |
| TC           | 130,0                      | 165,0                | 14,0             |
| TC           | 130,0                      | 165,0                | 15,0             |





| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 135,0                      | 165,0            | 15,0          |
| SC           | 135,0                      | 170,0            | 12,0          |
| TC           | 135,0                      | 170,0            | 12,0          |
| SC           | 135,0                      | 170,0            | 15,0          |
| TC           | 135,0                      | 170,0            | 15,0          |
| TC           | 135,0                      | 175,0            | 12,0          |
| TC           | 135,0                      | 175,0            | 15,0          |
| SC           | 136,5                      | 165,1            | 12,7          |
| TC           | 138,0                      | 160,0            | 15,0          |
| SC           | 139,7                      | 158,8            | 12,7          |
| SC           | 139,7                      | 165,1            | 12,7          |
| TC           | 140,0                      | 160,0            | 10,0          |
| SC           | 140,0                      | 160,0            | 12,0          |
| TC           | 140,0                      | 160,0            | 12,0          |
| TC           | 140,0                      | 160,0            | 13,0          |
| TC           | 140,0                      | 160,0            | 14,0          |
| TC           | 140,0                      | 160,0            | 15,0          |
| TC           | 140,0                      | 165,0            | 13,0          |
| TC           | 140,0                      | 165,0            | 15,0          |
| TC           | 140,0                      | 168,0            | 15,0          |
| SC           | 140,0                      | 170,0            | 12,0          |
| TC           | 140,0                      | 170,0            | 12,0          |
| TC           | 140,0                      | 170,0            | 13,0          |
| TC           | 140,0                      | 170,0            | 14,0          |
| SC           | 140,0                      | 170,0            | 15,0          |
| TC           | 140,0                      | 170,0            | 15,0          |
| TC           | 140,0                      | 175,0            | 13,0          |
| TC           | 140,0                      | 175,0            | 15,0          |
| SC           | 140,0                      | 180,0            | 10,0          |
| TC           | 140,0                      | 180,0            | 12,0          |
| TC           | 140,0                      | 180,0            | 12,0          |
| TC           | 140,0                      | 180,0            | 12,0          |
| TC           | 140,0                      | 180,0            | 15,0          |
| TC           | 140,0                      | 185,0            | 16,0          |
| TC           | 140,0                      | 200,0            | 12,0          |
| SC           | 140,0                      | 215,0            | 12,0          |
| TC           | 140,0                      | 250,0            | 15,0          |
| TC           | 141,3                      | 168,3            | 12,7          |
| TC           | 142,0                      | 157,0            | 10,0          |
| TC           | 142,0                      | 168,0            | 14,0          |
| SC           | 142,9                      | 168,3            | 9,5           |
| SC           | 143,0                      | 165,0            | 10,0          |
| SC           | 144,0                      | 160,0            | 12,0          |
| TC           | 145,0                      | 160,0            | 12,0          |
| TC           | 145,0                      | 165,0            | 13,0          |
| TC           | 145,0                      | 165,0            | 14,0          |
| TC           | 145,0                      | 167,0            | 13,0          |
| TC           | 145,0                      | 167,8            | 11,5          |
| TC           | 145,0                      | 168,0            | 10,0          |
| TC           | 145,0                      | 168,0            | 13,0          |
| TC           | 145,0                      | 170,0            | 13,0          |
| SC           | 145,0                      | 170,0            | 15,0          |
| TC           | 145,0                      | 170,0            | 15,0          |
| SC           | 145,0                      | 175,0            | 13,0          |
| TC           | 145,0                      | 175,0            | 13,0          |
| TC           | 145,0                      | 175,0            | 14,0          |
| SC           | 145,0                      | 175,0            | 15,0          |
| TC           | 145,0                      | 175,0            | 15,0          |
| TC           | 145,0                      | 180,0            | 12,0          |
| TC           | 145,0                      | 180,0            | 15,0          |
| TC           | 145,0                      | 230,0            | 17,0          |
| SC           | 146,1                      | 168,3            | 12,7          |
| SC           | 146,1                      | 190,5            | 14,3          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 148,0                      | 170,0            | 15,0          |
| TC           | 149,2                      | 174,6            | 12,7          |
| TC           | 150,0                      | 168,0            | 13,0          |
| SC           | 150,0                      | 170,0            | 12,0          |
| TC           | 150,0                      | 170,0            | 13,0          |
| TC           | 150,0                      | 170,0            | 15,0          |
| TC           | 150,0                      | 172,0            | 12,0          |
| SC           | 150,0                      | 172,0            | 15,0          |
| TC           | 150,0                      | 175,0            | 10,0          |
| TC           | 150,0                      | 176,0            | 15,0          |
| SC           | 150,0                      | 180,0            | 12,0          |
| TC           | 150,0                      | 180,0            | 12,0          |
| SC           | 150,0                      | 180,0            | 13,0          |
| TC           | 150,0                      | 180,0            | 13,0          |
| TC           | 150,0                      | 180,0            | 14,0          |
| SC           | 150,0                      | 180,0            | 15,0          |
| TC           | 150,0                      | 180,0            | 15,0          |
| TC           | 150,0                      | 185,0            | 16,0          |
| TC           | 150,0                      | 190,0            | 15,0          |
| SC           | 150,0                      | 200,0            | 10,0          |
| TC           | 150,0                      | 200,0            | 13,0          |
| TC           | 150,0                      | 210,0            | 15,0          |
| TC           | 150,0                      | 225,0            | 12,0          |
| SC           | 150,0                      | 225,0            | 15,0          |
| SC           | 150,8                      | 177,8            | 12,7          |
| TC           | 152,4                      | 177,8            | 12,7          |
| TC           | 154,0                      | 172,0            | 14,0          |
| TC           | 154,0                      | 180,0            | 18,0          |
| TC           | 155,0                      | 172,0            | 14,0          |
| TC           | 155,0                      | 174,0            | 12,0          |
| SC           | 155,0                      | 175,0            | 12,0          |
| TC           | 155,0                      | 180,0            | 10,0          |
| TC           | 155,0                      | 180,0            | 12,0          |
| TC           | 155,0                      | 180,0            | 13,0          |
| SC           | 155,0                      | 180,0            | 15,0          |
| TC           | 155,0                      | 180,0            | 15,0          |
| TC           | 155,0                      | 185,0            | 14,0          |
| TC           | 155,0                      | 185,0            | 16,0          |
| SC           | 155,0                      | 190,0            | 15,0          |
| TC           | 155,0                      | 190,0            | 15,0          |
| TC           | 155,0                      | 195,0            | 19,1          |
| TC           | 160,0                      | 180,0            | 10,0          |
| TC           | 160,0                      | 180,0            | 13,0          |
| TC           | 160,0                      | 180,0            | 14,0          |
| TC           | 160,0                      | 180,0            | 15,0          |
| TC           | 160,0                      | 180,0            | 18,0          |
| TC           | 160,0                      | 182,0            | 18,0          |
| SC           | 160,0                      | 185,0            | 10,0          |
| TC           | 160,0                      | 185,0            | 10,0          |
| TC           | 160,0                      | 185,0            | 13,0          |
| SC           | 160,0                      | 190,0            | 13,0          |
| TC           | 160,0                      | 190,0            | 13,0          |
| TC           | 160,0                      | 190,0            | 14,0          |
| SC           | 160,0                      | 190,0            | 15,0          |
| TC           | 160,0                      | 190,0            | 15,0          |
| TC           | 160,0                      | 195,0            | 15,0          |
| SC           | 160,0                      | 200,0            | 12,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 160,0                      | 200,0            | 12,0          |
| TC           | 160,0                      | 200,0            | 14,0          |
| TC           | 160,0                      | 200,0            | 15,0          |
| TC           | 160,0                      | 200,0            | 16,0          |
| TC           | 160,0                      | 215,0            | 15,0          |
| SC           | 160,0                      | 220,0            | 12,0          |
| TC           | 160,0                      | 220,0            | 15,0          |
| TC           | 160,0                      | 240,0            | 15,0          |
| TC           | 160,0                      | 290,0            | 18,0          |
| TC           | 161,9                      | 190,5            | 12,7          |
| TC           | 165,0                      | 186,0            | 14,0          |
| SC           | 165,0                      | 190,0            | 13,0          |
| TC           | 165,0                      | 190,0            | 13,0          |
| TC           | 165,0                      | 190,0            | 14,0          |
| TC           | 165,0                      | 190,0            | 15,0          |
| TC           | 165,0                      | 195,0            | 15,0          |
| TC           | 165,0                      | 200,0            | 14,0          |
| TC           | 165,1                      | 190,5            | 12,7          |
| SC           | 165,1                      | 196,9            | 12,7          |
| SC           | 165,1                      | 203,2            | 19,1          |
| SC           | 170,0                      | 190,0            | 7,0           |
| TC           | 170,0                      | 190,0            | 10,0          |
| TC           | 170,0                      | 190,0            | 14,0          |
| SC           | 170,0                      | 190,0            | 15,0          |
| TC           | 170,0                      | 195,0            | 15,0          |
| SC           | 170,0                      | 200,0            | 12,0          |
| TC           | 170,0                      | 200,0            | 13,0          |
| SC           | 170,0                      | 200,0            | 15,0          |
| TC           | 170,0                      | 200,0            | 15,0          |
| TC           | 170,0                      | 202,0            | 12,0          |
| TC           | 170,0                      | 205,0            | 15,0          |
| TC           | 170,0                      | 205,0            | 17,0          |
| SC           | 170,0                      | 210,0            | 15,0          |
| TC           | 170,0                      | 210,0            | 15,0          |
| TC           | 171,5                      | 196,9            | 12,7          |
| TC           | 173,0                      | 197,0            | 8,0           |
| TC           | 175,0                      | 190,0            | 15,0          |
| SC           | 175,0                      | 200,0            | 15,0          |
| TC           | 175,0                      | 200,0            | 15,0          |
| SC           | 175,0                      | 210,0            | 15,0          |
| TC           | 175,0                      | 210,0            | 15,0          |
| TC           | 175,0                      | 215,0            | 15,0          |
| TC           | 175,0                      | 230,0            | 20,0          |
| TC           | 177,0                      | 208,0            | 13,0          |
| TC           | 177,8                      | 203,2            | 12,7          |
| SC           | 180,0                      | 200,0            | 7,0           |
| TC           | 180,0                      | 200,0            | 14,0          |
| SC           | 180,0                      | 200,0            | 15,0          |
| TC           | 180,0                      | 200,0            | 15,0          |
| TC           | 180,0                      | 205,0            | 15,0          |
| SC           | 180,0                      | 210,0            | 12,5          |
| TC           | 180,0                      | 210,0            | 15,0          |
| TC           | 180,0                      | 215,0            | 15,0          |
| SC           | 180,0                      | 220,0            | 15,0          |
| TC           | 180,0                      | 220,0            | 15,0          |
| TC           | 180,0                      | 220,0            | 16,0          |
| TC           | 181,0                      | 219,1            | 14,3          |
| SC           | 184,2                      | 222,3            | 14,3          |
| SC           | 185,0                      | 210,0            | 13,0          |
| TC           | 185,0                      | 210,0            | 13,0          |
| TC           | 185,0                      | 210,0            | 15,0          |
| TC           | 185,0                      | 215,0            | 15,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TC           | 185,0                      | 215,0            | 16,0          |
| SC           | 186,0                      | 203,0            | 8,0           |
| TC           | 190,0                      | 210,0            | 10,0          |
| TC           | 190,0                      | 210,0            | 15,0          |
| SC           | 190,0                      | 215,0            | 16,0          |
| SC           | 190,0                      | 220,0            | 15,0          |
| TC           | 190,0                      | 220,0            | 15,0          |
| TC           | 190,0                      | 225,0            | 12,0          |
| TC           | 190,0                      | 225,0            | 16,0          |
| TC           | 190,0                      | 225,0            | 18,0          |
| TC           | 190,0                      | 230,0            | 15,0          |
| TC           | 190,0                      | 230,0            | 16,0          |
| SC           | 190,5                      | 219,1            | 15,9          |
| SC           | 190,5                      | 228,6            | 14,3          |
| SC           | 193,0                      | 210,0            | 8,0           |
| TC           | 193,7                      | 231,8            | 14,3          |
| TC           | 195,0                      | 225,0            | 16,0          |
| TC           | 195,0                      | 230,0            | 15,0          |
| TC           | 195,0                      | 230,0            | 16,0          |
| TC           | 195,0                      | 230,0            | 20,0          |
| TC           | 195,0                      | 235,0            | 16,0          |
| SC           | 196,9                      | 241,3            | 19,1          |
| TC           | 200,0                      | 220,0            | 12,0          |
| SC           | 200,0                      | 225,0            | 15,0          |
| TC           | 200,0                      | 225,0            | 15,0          |
| TC           | 200,0                      | 230,0            | 13,0          |
| SC           | 200,0                      | 230,0            | 15,0          |
| TC           | 200,0                      | 230,0            | 15,0          |
| SC           | 200,0                      | 230,0            | 16,0          |
| TC           | 200,0                      | 235,0            | 15,0          |
| TC           | 200,0                      | 240,0            | 15,0          |
| TC           | 200,0                      | 240,0            | 20,0          |
| SC           | 200,0                      | 250,0            | 15,0          |
| TC           | 200,0                      | 250,0            | 16,0          |
| TC           | 200,0                      | 250,0            | 20,0          |
| TC           | 205,0                      | 225,0            | 18,0          |
| SC           | 205,0                      | 230,0            | 16,0          |
| TC           | 205,0                      | 230,0            | 16,0          |
| TC           | 205,0                      | 235,0            | 18,0          |
| SC           | 209,6                      | 260,4            | 17,5          |
| SC           | 210,0                      | 240,0            | 15,0          |
| TC           | 210,0                      | 240,0            | 15,0          |
| TC           | 210,0                      | 245,0            | 18,0          |
| SC           | 210,0                      | 250,0            | 15,0          |
| TC           | 210,0                      | 250,0            | 15,0          |
| TC           | 210,0                      | 250,0            | 16,0          |
| TC           | 210,0                      | 255,0            | 16,0          |
| TC           | 210,0                      | 260,0            | 16,0          |
| TC           | 210,0                      | 270,0            | 16,0          |
| SC           | 212,7                      | 250,8            | 14,3          |
| SC           | 215,0                      | 240,0            | 12,0          |
| TC           | 215,0                      | 240,0            | 15,0          |
| TC           | 215,0                      | 240,0            | 18,0          |
| SC           | 215,9                      | 254,0            | 19,1          |
| TC           | 220,0                      | 247,0            | 15,0          |
| TC           | 220,0                      | 250,0            | 15,0          |
| TC           | 220,0                      | 250,0            | 20,0          |
| TC           | 220,0                      | 255,0            | 16,0          |
| TC           | 220,0                      | 260,0            | 14,0          |
| TC           | 220,0                      | 260,0            | 16,0          |
| TC           | 220,0                      | 270,0            | 17,0          |
| TC           | 222,0                      | 245,0            | 13,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| SC           | 230,0                      | 260,0            | 15,0          |
| TC           | 230,0                      | 260,0            | 15,0          |
| TC           | 230,0                      | 270,0            | 15,0          |
| TC           | 235,0                      | 275,0            | 16,0          |
| SC           | 240,0                      | 270,0            | 15,0          |
| TC           | 240,0                      | 270,0            | 15,0          |
| SC           | 240,0                      | 280,0            | 15,0          |
| TC           | 240,0                      | 280,0            | 18,0          |
| TC           | 240,0                      | 280,0            | 20,0          |
| SC           | 250,0                      | 280,0            | 15,0          |
| TC           | 250,0                      | 280,0            | 15,0          |
| TC           | 250,0                      | 285,0            | 18,0          |
| TC           | 250,0                      | 290,0            | 15,0          |
| SC           | 260,0                      | 290,0            | 15,0          |
| TC           | 260,0                      | 290,0            | 15,0          |
| TC           | 260,0                      | 300,0            | 18,0          |
| SC           | 260,0                      | 300,0            | 20,0          |
| TC           | 260,0                      | 300,0            | 20,0          |
| TC           | 260,0                      | 320,0            | 20,0          |
| TC           | 260,0                      | 320,0            | 25,0          |
| TC           | 265,0                      | 290,0            | 16,0          |
| TC           | 270,0                      | 310,0            | 18,0          |
| SC           | 280,0                      | 310,0            | 15,0          |
| TC           | 280,0                      | 310,0            | 15,0          |
| TC           | 280,0                      | 320,0            | 20,0          |
| TC           | 285,0                      | 320,0            | 20,0          |
| TC           | 290,0                      | 330,0            | 18,0          |
| SC           | 300,0                      | 340,0            | 18,0          |
| TC           | 300,0                      | 340,0            | 18,0          |
| TC           | 300,0                      | 360,0            | 25,0          |
| TC           | 310,0                      | 332,0            | 10,0          |
| TC           | 310,0                      | 350,0            | 18,0          |
| TC           | 320,0                      | 350,0            | 20,0          |
| TC           | 320,0                      | 360,0            | 18,0          |
| SC           | 320,0                      | 360,0            | 20,0          |
| TC           | 320,0                      | 360,0            | 20,0          |
| SC           | 340,0                      | 380,0            | 18,0          |
| TC           | 340,0                      | 380,0            | 20,0          |
| TC           | 350,0                      | 390,0            | 18,0          |
| TC           | 360,0                      | 400,0            | 18,0          |
| SC           | 360,0                      | 400,0            | 20,0          |
| TC           | 360,0                      | 400,0            | 20,0          |
| SC           | 380,0                      | 420,0            | 20,0          |
| TC           | 380,0                      | 420,0            | 20,0          |
| SC           | 400,0                      | 425,0            | 15,0          |
| TC           | 400,0                      | 440,0            | 20,0          |
| TC           | 420,0                      | 460,0            | 20,0          |
| SC           | 430,0                      | 480,0            | 30,0          |
| TC           | 440,0                      | 480,0            | 20,0          |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TCP          | 6,0                        | 16,0             | 5/5,3         |
| TCV          | 6,4                        | 19,1             | 6,4           |
| TCV          | 7,9                        | 25,4             | 6,4           |
| TCV          | 8,0                        | 16,0             | 7,0           |
| TCV          | 8,0                        | 22,0             | 6,4           |
| SCV          | 8,0                        | 22,0             | 7,0           |
| TCP          | 9,0                        | 22,0             | 7,0           |
| TCV          | 10,0                       | 19,0             | 7,0           |
| TCV          | 10,0                       | 20,0             | 4,0           |
| SCV          | 10,0                       | 22,0             | 7,0           |
| SCVT         | 10,0                       | 26,0             | 7,0           |
| TCV          | 10,0                       | 26,0             | 7,0           |
| TCP          | 10,0                       | 22,0             | 6,4           |
| TCP          | 10,0                       | 22,0             | 7,0           |
| TCP          | 10,0                       | 26,0             | 6,4           |
| TCV          | 11,0                       | 30,0             | 6,0           |
| TCV          | 11,1                       | 19,1             | 6,4           |
| SCV          | 11,2                       | 23,5             | 5,7           |
| SCV          | 11,9                       | 21,9             | 4,8           |
| TCV          | 12,0                       | 20,0             | 5,0           |
| TCV          | 12,0                       | 20,0             | 5,0           |
| TCV          | 12,0                       | 22,0             | 6,0           |
| TCV          | 12,0                       | 22,0             | 6/6,5         |
| TCV          | 12,0                       | 22,0             | 6,0           |
| TCVJ         | 12,0                       | 22,0             | 6,0           |
| TCV          | 12,0                       | 24,0             | 6,0           |
| TCV          | 12,0                       | 25,0             | 7,0           |
| SCV          | 12,0                       | 28,0             | 7,0           |
| TCV          | 12,0                       | 28,0             | 7,0           |
| TCP          | 12,0                       | 22,0             | 6,0           |
| TCP          | 12,0                       | 26,0             | 6/6,5         |
| TCV          | 12,5                       | 22,5             | 7,0           |
| TCV          | 12,7                       | 25,4             | 7,9           |
| TCP          | 12,7                       | 19,0             | 4,2           |
| TCP          | 12,7                       | 22,2             | 6,4           |
| TCHP         | 12,7                       | 22,2             | 6,4           |
| SCV          | 13,0                       | 22,0             | 5,0           |
| TCV          | 14,0                       | 27,0             | 8,0           |
| TCV          | 14,0                       | 28,0             | 7,0           |
| TCP          | 14,0                       | 24,0             | 6,0           |
| SCP          | 14,0                       | 38,0             | 6/7,6         |
| HTCVL        | 15,0                       | 25,5             | 4,8           |
| TCV          | 15,0                       | 30,0             | 7,0           |
| TCV          | 15,0                       | 32,0             | 7,0           |
| TCP          | 15,0                       | 26,0             | 7/7,5         |
| SCP          | 15,0                       | 35,0             | 7,0           |
| SCP          | 15,0                       | 35,0             | 8,0           |
| SCPA         | 15,0                       | 35,0             | 8/14,5        |
| TCV          | 15,9                       | 28,6             | 9,5           |
| SCV          | 15,9                       | 31,8             | 7,5           |
| SCV          | 15,9                       | 33,0             | 4,5           |
| TCP          | 15,9                       | 25,4             | 6,4           |
| TCV          | 16,0                       | 30,0             | 7,0           |
| TCV          | 16,0                       | 30,0             | 7,5           |
| TCV          | 16,0                       | 32,0             | 10,0          |
| TCV          | 16,0                       | 35,0             | 7,0           |
| TCP          | 16,0                       | 28,0             | 7,0           |
| SCP          | 16,0                       | 30,0             | 7,0           |
| TCP          | 16,0                       | 32,0             | 7/7,5         |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TCV          | 17,0                       | 29,0             | 6,5           |
| TCV          | 17,0                       | 30,0             | 7,0           |
| TCV          | 17,0                       | 34,6             | 7,0           |
| TCV          | 17,0                       | 35,0             | 7,0           |
| SCP          | 17,0                       | 28,0             | 7,0           |
| TCP          | 17,0                       | 30,0             | 7,0           |
| TCP          | 17,0                       | 30,2             | 8,0           |
| TCP          | 17,0                       | 35,0             | 5,0           |
| SCHPI        | 17,0                       | 28,0             | 5,5           |
| SCV          | 17,5                       | 28,6             | 6,2           |
| TCV          | 17,5                       | 30,2             | 7,9           |
| SCP          | 17,5                       | 28,6             | 6,4           |
| TCP          | 17,5                       | 28,6             | 6,4           |
| SCV          | 18,0                       | 24,0             | 4,0           |
| TCV          | 18,0                       | 30,0             | 7,0           |
| TCV          | 18,0                       | 30,0             | 7,0           |
| TCP          | 18,0                       | 25,0             | 4,0           |
| TCP          | 18,0                       | 30,0             | 6/6,5         |
| TCPJ         | 18,0                       | 30,0             | 7,0           |
| TCPY         | 18,0                       | 30,0             | 7,0           |
| SCHP         | 18,0                       | 30,0             | 7,0           |
| TCHP         | 18,0                       | 30,0             | 7,0           |
| TCVW         | 19,0                       | 31,8             | 7,9           |
| TCVW         | 19,0                       | 31,8             | 7,9           |
| TCV          | 19,0                       | 32,0             | 7,0           |
| SCHP         | 19,0                       | 32,0             | 7,0           |
| TCV          | 19,1                       | 28,6             | 6,4           |
| TCVY         | 19,1                       | 34,6             | 6,4/8,7       |
| TCV          | 19,1                       | 34,9             | 6,4           |
| TCVJ         | 19,1                       | 34,9             | 6,4           |
| SCV          | 19,1                       | 34,9             | 7,9           |
| SCP          | 19,1                       | 28,6             | 6,4           |
| TCP          | 19,1                       | 31,8             | 6,4/6,9       |
| TCP          | 19,1                       | 34,9             | 6,4/6,9       |
| TCP          | 19,1                       | 38,0             | 6,4           |
| TCV          | 19,5                       | 30,0             | 6/6,4         |
| TCV          | 19,5                       | 33,0             | 7,3           |
| TCP          | 19,5                       | 30,0             | 6,0           |
| TCP          | 19,5                       | 39,7             | 6,5           |
| HTCV2        | 19,8                       | 39,7             | 6,4           |
| TCV          | 19,8                       | 39,7             | 6,4           |
| TCV2         | 19,8                       | 39,7             | 6,4           |
| TCV          | 19,9                       | 44,5             | 7,9           |
| TCV          | 20,0                       | 30,0             | 7,0           |
| TCV          | 20,0                       | 32,0             | 6,0           |
| TCV          | 20,0                       | 35,0             | 7,0           |
| TCV          | 20,0                       | 35,0             | 8,0           |
| SCV          | 20,0                       | 36,0             | 6,2           |
| TCV          | 20,0                       | 36,0             | 7,0           |
| TCV          | 20,0                       | 40,0             | 7/7,5         |
| TCV          | 20,0                       | 40,0             | 11,0          |
| SCV          | 20,0                       | 42,0             | 7,0           |
| TCVW         | 20,0                       | 42,5             | 7/8,0         |
| SCV          | 20,0                       | 43,6             | 6,0           |
| TCP          | 20,0                       | 30,0             | 5/5,5         |
| TCPW         | 20,0                       | 30,0             | 5/6,0         |
| TCP          | 20,0                       | 30,0             | 7/7,5         |
| TCPW         | 20,0                       | 32,0             | 5/6,0         |
| TCP          | 20,0                       | 32,0             | 6,0           |
| TCPJ         | 20,0                       | 32,0             | 6,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| TCP          | 20,0                       | 35,0             | 5,0           |
| TCP          | 20,0                       | 35,0             | 6/6,5         |
| SCP          | 20,0                       | 36,0             | 8,0           |
| TCP          | 20,0                       | 45,0             | 7,0           |
| SCV          | 20,6                       | 41,3             | 6,4           |
| SCP          | 20,6                       | 41,3             | 6,4           |
| TCV          | 21,0                       | 30,0             | 6/6,4         |
| TCP          | 21,3                       | 34,9             | 9,5/10        |
| TCP          | 21,3                       | 34,9             | 9,5/10        |
| TCV          | 22,0                       | 32,0             | 7,0           |
| TCV          | 22,0                       | 34,0             | 7,0           |
| TCV          | 22,0                       | 35,0             | 7,0           |
| TCV          | 22,0                       | 35,0             | 8,0           |
| SCV          | 22,0                       | 38,0             | 6,5           |
| TCV          | 22,0                       | 40,0             | 7,0           |
| TCV          | 22,0                       | 42,0             | 11,0          |
| TCV          | 22,0                       | 47,0             | 7,0           |
| TCPW         | 22,0                       | 32,0             | 5/6,0         |
| TCP          | 22,0                       | 35,0             | 6/6,5         |
| TCP          | 22,0                       | 40,0             | 7/7,5         |
| TCP          | 22,2                       | 32,0             | 7/7,5         |
| SCVJ         | 22,2                       | 34,9             | 6,4           |
| TCV          | 22,2                       | 34,9             | 6,4           |
| TCV          | 22,2                       | 38,0             | 6,4           |
| SCV          | 22,2                       | 39,5             | 7,3           |
| SCP          | 23,3                       | 37,5             | 5,5           |
| SCV          | 24,0                       | 33,0             | 7,0           |
| SCVT         | 24,0                       | 35,0             | 8,5           |
| SCVT         | 24,0                       | 35,0             | 12,0          |
| TCV          | 24,0                       | 36,0             | 7/8,0         |
| SCVT         | 24,0                       | 38,0             | 8,5           |
| SCVT         | 24,0                       | 38,2             | 12,5          |
| SCVT         | 24,0                       | 40,0             | 7,0           |
| TCV          | 24,0                       | 40,0             | 7,0           |
| TCV          | 24,0                       | 40,0             | 7,0           |
| SCVT         | 24,0                       | 40,0             | 8,0           |
| TCV          | 24,0                       | 40,0             | 8,0           |
| SCVT         | 24,0                       | 40,0             | 8,5           |
| SCVT         | 24,0                       | 43,0             | 8,5           |
| SCP          | 24,0                       | 35,0             | 5,5           |
| SCP          | 24,0                       | 37,0             | 7,0           |
| TCP          | 24,0                       | 40,0             | 7,0           |
| TCHP         | 24,0                       | 40,0             | 7,0           |
| TCV          | 24,5                       | 42,9             | 7,9           |
| TCV          | 24,6                       | 54,3             | 9,5           |
| TCV          | 25,0                       | 35,0             | 6,0           |
| TCV          | 25,0                       | 35,0             | 7,0           |
| TCVW         | 25,0                       | 36,0             | 7,3           |
| TCV          | 25,0                       | 37,0             | 7,0           |
| TCV          | 25,0                       | 38,0             | 7,0           |
| TCV          | 25,0                       | 38,1             | 6,4           |
| TCV          | 25,0                       | 40,0             | 6/6,4         |
| TCV          | 25,0                       | 40,0             | 8,0           |
| SCV          | 25,0                       | 42,0             | 7,0           |
| SCVT         | 25,0                       | 44,0             | 9,0           |
| SCV          | 25,0                       | 45,0             | 7,0           |
| TCV          | 25,0                       | 45,0             | 11,0          |
| TCV          | 25,0                       | 47,0             | 6,0           |
| TCVY         | 25,0                       | 50,0             | 12,0          |
| TCV          | 25,0                       | 52,0             | 7,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| HTCPWI       | 25,0                       | 35,0             | 6/6,5         |
| TCP          | 25,0                       | 35,0             | 6/6,5         |
| TCP          | 25,0                       | 40,0             | 6/6,5         |
| TCP          | 25,0                       | 47,0             | 7/7,5         |
| TCP          | 25,0                       | 52,0             | 7/7,5         |
| TCP          | 25,0                       | 52,0             | 8/8,5         |
| TCP          | 25,0                       | 52,0             | 10,0          |
| SCV          | 25,4                       | 38,0             | 6,0           |
| TCV          | 25,4                       | 38,1             | 6,4           |
| TCV          | 25,4                       | 44,5             | 7,9           |
| TCPJX        | 25,4                       | 31,4             | 4,8           |
| TCP          | 25,4                       | 41,2             | 6,4/6,9       |
| TCP          | 25,4                       | 41,2             | 6,4/6,9       |
| TCP          | 25,4                       | 44,5             | 7/7,5         |
| SCV          | 26,0                       | 47,8             | 6,1           |
| SCVT         | 26,0                       | 40,0             | 8,0           |
| SCVT         | 26,0                       | 43,0             | 8,5           |
| SCVT         | 26,0                       | 45,0             | 8,5           |
| SCVT         | 26,0                       | 47,0             | 8,5           |
| SCVT         | 26,0                       | 48,0             | 9,5           |
| SCVT         | 26,5                       | 43,0             | 8,5           |
| TCP          | 27,0                       | 38,1             | 5,6/7,4       |
| TCP          | 27,0                       | 38,1             | 5,6/7,4       |
| TCV          | 27,0                       | 42,8             | 7,9           |
| TCV          | 27,0                       | 47,6             | 7,9           |
| SCVT         | 27,0                       | 46,0             | 8,5           |
| TCHP         | 27,0                       | 34,9             | 6,4           |
| SCVT         | 27,7                       | 38,0             | 8,5           |
| SCVT         | 27,7                       | 40,0             | 9,0           |
| TCVT         | 27,7                       | 46,0             | 13/14,0       |
| SCVT         | 28,0                       | 40,0             | 8,0           |
| TCVT         | 28,0                       | 40,0             | 9/11,0        |
| SCVT         | 28,0                       | 41/41,5          | 8,0           |
| SCVT         | 28,0                       | 42,0             | 12,5          |
| SCVT         | 28,0                       | 44,7             | 9,0           |
| SCV          | 28,0                       | 47,0             | 7,0           |
| SCPW         | 28,0                       | 37,0             | 5,0           |
| SCP          | 28,0                       | 37,5             | 5,0           |
| SCP          | 28,0                       | 38,0             | 7,0           |
| TCP          | 28,0                       | 40,0             | 6,0           |
| TCP          | 28,0                       | 40,0             | 8/6,0         |
| TCPW         | 28,5                       | 38,1             | 6,0           |
| SCV          | 28,6                       | 49,0             | 7,3           |
| SCHPI        | 28,6                       | 42,0             | 5,5           |
| SCHPI        | 28,6                       | 42,0             | 5,5           |
| SCHPI        | 28,6                       | 48,0             | 6,0           |
| TCV          | 28,6                       | 38,1             | 4,8           |
| TCV          | 28,6                       | 42,9             | 7,9           |
| TCV          | 28,6                       | 50,8             | 6,4           |
| TCPW         | 28,6                       | 38,1             | 6/6,5         |
| SCV2         | 29,0                       | 37,5             | 5,0           |
| TCPW         | 29,0                       | 43,0             | 7/7,5         |
| SCP          | 29,0                       | 47,0             | 8,0           |
| SCP          | 29,0                       | 47,0             | 8,0           |
| TCV          | 29,4                       | 42,8             | 7,9           |
| TCP          | 29,4                       | 38,1             | 4,8           |
| TCP          | 29,4                       | 42,8             | 7,9           |
| TCV          | 29,4                       | 46,8             | 6,3/7         |
| TCP          | 29,5                       | 47,0             | 6,3/7         |
| SCV          | 30,0                       | 40,0             | 7,0           |

# Anelli di tenuta per alte pressioni

## Shaft seals for high pressure

SCV  
SCP  
SCHP

TCV  
TCP  
TCHP

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TCV          | 30,0                       | 40,0                | 7,0              |
| TCV          | 30,0                       | 42,0                | 5,5/6            |
| TCV          | 30,0                       | 45,0                | 8,0              |
| TCV          | 30,0                       | 47,0                | 8,0              |
| SCVWT        | 30,0                       | 48/48,5             | 8,0              |
| SCVT         | 30,0                       | 50,0                | 7,0              |
| SCVT         | 30,0                       | 50,0                | 8,5              |
| TCV          | 30,0                       | 50,0                | 11,0             |
| TCV          | 30,0                       | 52,0                | 11,0             |
| TCV          | 30,0                       | 55,0                | 7,0              |
| TCV          | 30,0                       | 62,0                | 6,5              |
| TCV          | 30,0                       | 75,0                | 7,0              |
| TCP          | 30,0                       | 42,0                | 6/6,5            |
| SCP          | 30,0                       | 42,0                | 7,0              |
| TCP          | 30,0                       | 47,0                | 6,3/7            |
| TCP          | 30,0                       | 47,0                | 7,0              |
| TCP          | 30,0                       | 48,0                | 6,0              |
| TCHP         | 30,2                       | 47,6                | 8,4              |
| TCV          | 31,7                       | 50,7                | 11,1             |
| TCV          | 31,8                       | 44,5                | 7/7,7            |
| SCV          | 31,8                       | 44,5                | 7,9              |
| SCV          | 31,8                       | 44,5                | 7,9              |
| TCV          | 31,8                       | 44,5                | 9,9              |
| TCV          | 31,8                       | 44,5                | 9,9              |
| TCP          | 31,8                       | 44,5                | 9,9              |
| TCV          | 32,0                       | 44,0                | 8,0              |
| TCVY         | 32,0                       | 44,0                | 8/9,5            |
| TCV          | 32,0                       | 45,0                | 7,0              |
| SCVT         | 32,0                       | 53,0                | 8,5              |
| SCVT         | 32,0                       | 56,0                | 9,0              |
| TCV          | 32,0                       | 62,0                | 9,0              |
| TCV          | 32,0                       | 80,0                | 8,0              |
| TCP          | 32,0                       | 42,0                | 7/7,5            |
| TCP          | 32,0                       | 52,0                | 11,0             |
| SCHP         | 33,0                       | 45,0                | 6,0              |
| TCHP         | 33,0                       | 72,3                | 9,5              |
| TCV          | 33,3                       | 49,2                | 7,9              |
| TCV          | 33,3                       | 49,2                | 7,9              |
| TCV          | 33,3                       | 54,0                | 7,9              |
| TCV          | 33,3                       | 54,0                | 7,9              |
| SCV          | 34,9                       | 70,2                | 7,3              |
| SCV          | 34,9                       | 70,5                | 7,3              |
| TCV          | 34,9                       | 50,8                | 7,9              |
| TCV          | 34,9                       | 57,2                | 8,0              |
| SCP          | 34,9                       | 47,6                | 6,4              |
| TCP          | 34,9                       | 57,2                | 7,9              |
| SCVT         | 35,0                       | 47,0                | 7,0              |
| TCV          | 35,0                       | 47,0                | 7,0              |
| SCVT         | 35,0                       | 50,0                | 8,0              |
| TCV          | 35,0                       | 50,0                | 10,0             |
| TCV          | 35,0                       | 52,0                | 7,0              |
| TCV          | 35,0                       | 52,0                | 10,0             |
| SCVT         | 35,0                       | 53/53,5             | 8,0              |
| TCV          | 35,0                       | 55,0                | 10,0             |
| TCV          | 35,0                       | 55,0                | 11,0             |
| SCVT         | 35,0                       | 56,0                | 8,0              |
| TCV          | 35,0                       | 57,0                | 9,0              |
| SCV          | 35,0                       | 62,0                | 10,0             |
| TCP          | 35,0                       | 45,0                | 7/7,5            |
| TCP          | 35,0                       | 47,0                | 6/6,5            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| HTCP         | 35,0                       | 47,0                | 7/7,5            |
| SCP          | 35,0                       | 48,0                | 5,5              |
| TCP          | 35,0                       | 48,9                | 6,0              |
| TCP          | 35,0                       | 50,0                | 7/7,5            |
| TCP          | 35,0                       | 50,0                | 10,0             |
| TCP          | 35,0                       | 52,0                | 6/6,5            |
| TCP          | 35,0                       | 52,0                | 6/6,5            |
| TCP          | 35,0                       | 52,0                | 7,0              |
| TCP          | 35,0                       | 54,0                | 6,0              |
| TCP          | 35,0                       | 55,0                | 11,0             |
| SCHP         | 35,0                       | 52,0                | 5,0              |
| TCV          | 36,5                       | 47,6                | 6,4              |
| TCV          | 36,5                       | 50,8                | 7,9              |
| TCP          | 36,5                       | 50,8                | 7,9              |
| SCVT         | 38,0                       | 51,0                | 8,5              |
| TCV          | 38,0                       | 57,0                | 7,0              |
| TCV          | 38,0                       | 72,0                | 12,0             |
| TCP          | 38,0                       | 50,0                | 7/7,5            |
| TCP          | 38,0                       | 52,0                | 7,0              |
| TCP          | 38,0                       | 58,0                | 8,0              |
| TCV          | 38,1                       | 58,7                | 12,7             |
| SCV          | 38,1                       | 49,2                | 7,3              |
| TCV          | 38,1                       | 57,2                | 7,9              |
| TCHP         | 38,1                       | 50,8                | 7,9/8,4          |
| SCV          | 40,0                       | 52,0                | 7/5,5            |
| TCV          | 40,0                       | 52,0                | 7,0              |
| TCV          | 40,0                       | 55,0                | 6,0              |
| TCV          | 40,0                       | 55,0                | 8,0              |
| SCV          | 40,0                       | 58,0                | 6,2              |
| TCV          | 40,0                       | 62,0                | 8,0              |
| TCV          | 40,0                       | 62,0                | 12,0             |
| TCV          | 40,0                       | 65,0                | 10,0             |
| TCP          | 40,0                       | 52,0                | 5/5,5            |
| TCP          | 40,0                       | 52,0                | 7/7,5            |
| TCP          | 40,0                       | 55,0                | 6,0              |
| TCP          | 40,0                       | 56,0                | 6/6,5            |
| TCP          | 40,0                       | 58,0                | 8/8,5            |
| TCP          | 40,0                       | 60,0                | 7/7,5            |
| TCP          | 40,0                       | 62,0                | 6/6,5            |
| TCP          | 40,0                       | 67,0                | 7/7,5            |
| TCP          | 40,0                       | 68,0                | 10/10,5          |
| TCHP         | 40,0                       | 62,0                | 10,0             |
| SCHP         | 40,0                       | 80,0                | 7,0              |
| TCV          | 41,3                       | 54,0                | 6,4              |
| TCV          | 41,3                       | 60,3                | 9,5              |
| TCV          | 41,3                       | 60,3                | 9,5              |
| TCP          | 41,3                       | 60,3                | 9,5/10           |
| TCV          | 42,0                       | 55,0                | 7,0              |
| TCV          | 42,0                       | 62,0                | 8,0              |
| TCP          | 42,0                       | 62,0                | 7/7,5            |
| TCP          | 42,0                       | 65,0                | 12,0             |
| TCV          | 44,5                       | 61,9                | 7,9              |
| SCV          | 44,5                       | 63,5                | 7,9              |
| SCV          | 44,5                       | 63,5                | 12,7             |
| TCP          | 44,5                       | 63,5                | 7,9/8,4          |
| TCP          | 44,5                       | 72,9                | 7,9              |
| TCHPI        | 44,5                       | 63,5                | 7,9/9,1          |
| TCV          | 45,0                       | 65,0                | 6,0              |
| TCV          | 45,0                       | 65,0                | 8,0              |
| TCV          | 45,0                       | 65,0                | 10,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TCV          | 45,0                       | 72,0                | 8,0              |
| TCV          | 45,0                       | 75,0                | 7,0              |
| TCV          | 45,0                       | 80,0                | 10,0             |
| TCP          | 45,0                       | 58,0                | 6/6,5            |
| TCP          | 45,0                       | 58,0                | 6/6,5            |
| TCP          | 45,0                       | 62,0                | 7/7,5            |
| TCP          | 45,0                       | 65,0                | 8/8,5            |
| TCP          | 45,0                       | 68,0                | 7,0              |
| HTCPW        | 45,0                       | 75,0                | 8/8,5            |
| TCP          | 45,0                       | 75,0                | 10/10,5          |
| TCP          | 45,0                       | 80,0                | 7/7,5            |
| TCP          | 45,0                       | 80,0                | 10/10,5          |
| TCHP         | 45,0                       | 65,0                | 7/7,5            |
| TCV          | 47,0                       | 62,0                | 7,0              |
| TCP          | 47,0                       | 62,0                | 7,0              |
| SCV          | 47,6                       | 65,1                | 7,3              |
| SCV          | 47,6                       | 65,1                | 7,3              |
| TCP          | 47,6                       | 63,6                | 7,9/8,4          |
| TCV          | 48,0                       | 62,0                | 7,0              |
| SCV          | 48,0                       | 62,0                | 8,0              |
| SCP          | 48,0                       | 62,0                | 8,0              |
| TCV          | 49,2                       | 62,8                | 7,9              |
| TCV          | 49,2                       | 63,5                | 9,5              |
| TCHP         | 49,2                       | 68,2                | 9,5              |
| SCV          | 49,2                       | 64,5                | 5,8              |
| TCHPJ        | 49,2                       | 68,0                | 7,9              |
| TCV          | 50,0                       | 62,0                | 7,0              |
| TCV          | 50,0                       | 65,0                | 7,0              |
| TCV          | 50,0                       | 65,0                | 8,0              |
| TCV          | 50,0                       | 68,0                | 8,0              |
| TCV          | 50,0                       | 80,0                | 10,0             |
| TCV          | 50,0                       | 85,0                | 10,0             |
| TCP          | 50,0                       | 65,0                | 7/7,5            |
| TCP          | 50,0                       | 65,0                | 8,0              |
| TCP          | 50,0                       | 68,0                | 8/8,5            |
| TCP          | 50,0                       | 72,0                | 7/7,5            |
| TCPJ         | 50,0                       | 72,0                | 10/10,9          |
| TCP          | 50,0                       | 80,0                | 7/7,5            |
| TCP          | 50,0                       | 80,0                | 8/8,5            |
| SCV          | 50,8                       | 72,3                | 9,5              |
| TCV          | 52,0                       | 72,0                | 8,0              |
| TCP          | 52,0                       | 72,0                | 7/7,5            |
| SCV          | 55,0                       | 68,0                | 8,0              |
| HTCVW        | 55,0                       | 70,0                | 7,0              |
| TCV          | 55,0                       | 72,0                | 8,0              |
| TCV          | 55,0                       | 72,0                | 8/8,5            |
| TCV          | 55,0                       | 80,0                | 12,0             |
| SCV          | 55,0                       | 90,0                | 8,0              |
| TCP          | 55,0                       | 68,0                | 7/7,5            |
| TCP          | 55,0                       | 68,0                | 7/7,5            |
| TCP          | 55,0                       | 68,0                | 8/8,5            |
| TCP          | 55,0                       | 70,0                | 7,0              |
| TCP          | 55,0                       | 78,0                | 8,0              |
| TCP          | 55,0                       | 80,0                | 8/10,0           |
| TCP          | 55,0                       | 85,0                | 8/8,5            |
| TCP          | 55,0                       | 90,0                | 7/7,5            |
| TCV          | 56,0                       | 70,0                | 9/6,0            |
| TCV          | 56,0                       | 72,0                | 7,0              |
| TCHP         | 56,0                       | 72,0                | 8,0              |
| TCV          | 57,0                       | 75,0                | 7,5/8            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TCV          | 57,1                       | 98,5                | 11,1             |
| TCHP         | 57,2                       | 76,2                | 9,5/11,2         |
| SCP          | 58,0                       | 80,0                | 8,0              |
| TCV          | 60,0                       | 75,0                | 8,0              |
| TCV          | 60,0                       | 80,0                | 7/7,5            |
| TCV          | 60,0                       | 80,0                | 8,0              |
| TCV          | 60,0                       | 82,0                | 12,0             |
| TCV          | 60,0                       | 90,0                | 10,0             |
| TCP          | 60,0                       | 75,0                | 8/8,5            |
| SCP          | 60,0                       | 80,0                | 7,0              |
| TCP          | 60,0                       | 80,0                | 7/7,5            |
| TCP          | 60,0                       | 80,0                | 10/12,0          |
| TCP          | 60,0                       | 90,0                | 7/7,5            |
| TCP          | 60,0                       | 106,0               | 7/7,5            |
| SCHP         | 60,0                       | 80,0                | 7/6,0            |
| SCV          | 61,9                       | 81,0                | 9,5              |
| TCHP         | 61,9                       | 90,0                | 11,1             |
| TCV          | 62,0                       | 85,0                | 10,0             |
| TCV          | 65,0                       | 90,0                | 10,0             |
| TCP          | 65,0                       | 80,0                | 7/7,5            |
| TCP          | 65,0                       | 85,0                | 8,0              |
| TCP          | 65,0                       | 85,0                | 10,0             |
| TCP          | 65,0                       | 88,0                | 7,0              |
| TCP          | 65,0                       | 90,0                | 7,0              |
| TCHP         | 65,0                       | 97,0                | 7,5/9,5          |
| TCHP         | 65,9                       | 85,0                | 9,9/11,7         |
| SCV          | 66,7                       | 91,5                | 10,3             |
| TCV          | 70,0                       | 90,0                | 10,0             |
| TCV          | 70,0                       | 90,0                | 12,0             |
| TCV          | 70,0                       | 100,0               | 10,0             |
| TCV          | 70,0                       | 110,0               | 8,0              |
| TCP          | 70,0                       | 85,0                | 8/8,5            |
| TCP          | 70,0                       | 90,0                | 7,0              |
| TCP          | 70,0                       | 90,0                | 8,0              |
| TCP          | 70,0                       | 90,0                | 12,0             |
| TCP          | 70,0                       | 92,0                | 12,0             |
| TCP          | 70,0                       | 92,0                | 12,0             |
| TCHP         | 70,0                       | 90,0                | 12/12,5          |
| SCHP         | 72,0                       | 95,0                | 6,0              |
| TCP          | 73,0                       | 90,0                | 7/7,5            |
| TCV          | 75,0                       | 95,0                | 7,0              |
| TCV          | 75,0                       | 95,0                | 10,0             |
| TCP          | 75,0                       | 90,0                | 10/11,0          |
| SCV          | 80,0                       | 101,5               | 5,8              |
| TCP          | 80,0                       | 100,0               | 7,0              |
| TCP          | 80,0                       | 100,0               | 10/10,5          |
| SCHP         | 80,0                       | 100,0               | 8/6,0            |
| TCP          | 90,0                       | 110,0               | 12/13,0          |
| TCV          | 95,0                       | 140,0               | 8,0              |
| TCP          | 100,0                      | 130,0               | 12,0             |
| TCHP         | 101,6                      | 120,7               | 6,4              |
| TCHP         | 104,8                      | 136,5               | 12,3             |
| TCP          | 110,0                      | 130,0               | 12/13,0          |
| SCVW         | 115,0                      | 140,0               | 7,5              |
| TCV          | 130,0                      | 160,0               | 12/13,0          |
| TCV          | 140,0                      | 170,0               | 15,0             |
| TCP          | 150,0                      | 180,0               | 8/8,5            |
| TCP          | 170,0                      | 200,0               | 12/14,0          |
| TCP          | 170,0                      | 200,0               | 14/15,0          |
| TCV          | 180,0                      | 210,0               | 8,5              |





| Tipo<br>Type | Dimensioni (mm)<br>Dimensions (mm) |                  |
|--------------|------------------------------------|------------------|
|              | Diametro<br>Diameter               | Altezza<br>Width |
| EC           | 10,0                               | 5,0              |
| VK           | 10,0                               | 5,0              |
| EC           | 12,0                               | 5,0              |
| EC           | 12,8                               | 2,5              |
| EC           | 13,0                               | 4,5              |
| EC           | 14,0                               | 4,0              |
| EC           | 15,0                               | 4,5              |
| EC           | 16,0                               | 4,0              |
| EC           | 17,0                               | 4,0              |
| EC           | 18,0                               | 4,0              |
| ECW          | 19,0                               | 6,0              |
| EC           | 19,0                               | 7,0              |
| EC           | 19,0                               | 4,8              |
| EC           | 20,0                               | 4,0              |
| EC           | 20,0                               | 7,0              |
| EC           | 22,0                               | 4,0              |
| EC           | 22,0                               | 5,0              |
| VK           | 22,0                               | 5,0              |
| EC           | 22,0                               | 7,0              |
| VK           | 22,0                               | 7,0              |
| EC           | 24,0                               | 7,0              |
| VK           | 24,0                               | 7,0              |
| EC           | 25,0                               | 5,0              |
| EC           | 25,0                               | 6,0              |
| EC           | 25,0                               | 7,0              |
| EC           | 25,4                               | 6,4              |
| EC           | 26,0                               | 4,0              |
| EC           | 26,0                               | 6,5              |
| EC5Y         | 27,8/41,2                          | 9,2              |
| EC           | 28,0                               | 4,0              |
| EC           | 28,0                               | 5,0              |
| EC5Y         | 28/33,0                            | 5/11,0           |
| EC           | 28,0                               | 7,0              |
| VK           | 28,0                               | 7,0              |
| EC           | 29,0                               | 7,0              |
| EC           | 30,0                               | 4,0              |
| EC           | 30,0                               | 5,0              |
| EC           | 30,0                               | 6,0              |
| VK           | 30,0                               | 6,0              |
| VK           | 30,0                               | 7,0              |
| EC           | 30,0                               | 8,0              |
| VK           | 30,0                               | 8,0              |
| VK           | 30,0                               | 8,0              |
| VKY          | 31,0                               | 4/5,4            |
| EC           | 31,8                               | 4,8              |
| EC           | 32,0                               | 5,0              |
| EC           | 32,0                               | 7,0              |
| EC           | 32,0                               | 8,0              |
| VK           | 32,0                               | 8,0              |
| EC           | 32,0                               | 9,5              |
| VK           | 32,0                               | 9,5              |
| EC           | 34,0                               | 8,0              |
| EC5WY        | 34,9/47,6                          | 9,2              |
| EC           | 35,0                               | 3,5              |
| EC           | 35,0                               | 5,0              |
| EC           | 35,0                               | 6,5              |
| EC           | 35,0                               | 7,0              |
| EC           | 35,0                               | 8,0              |
| ECW          | 35,0                               | 8,0              |

| Tipo<br>Type | Dimensioni (mm)<br>Dimensions (mm) |                  |
|--------------|------------------------------------|------------------|
|              | Diametro<br>Diameter               | Altezza<br>Width |
| VK           | 35,0                               | 8,0              |
| VK           | 35,0                               | 8,0              |
| EC           | 36,0                               | 6,0              |
| EC           | 37,0                               | 5,0              |
| EC           | 37,0                               | 7,0              |
| VK           | 37,0                               | 7,0              |
| EC           | 37,0                               | 10,0             |
| VK           | 37,0                               | 10,0             |
| EC           | 38,0                               | 7,0              |
| EC5Y         | 38/46,0                            | 7,0              |
| EC           | 38,0                               | 10,0             |
| ECW          | 38,1                               | 7,9              |
| EC           | 38,1                               | 4,8              |
| EC           | 38,1                               | 6,4              |
| EC           | 39,7                               | 6,4              |
| EC           | 40,0                               | 2,5              |
| EC           | 40,0                               | 5,0              |
| VK           | 40,0                               | 5,0              |
| EC           | 40,0                               | 7,0              |
| EC           | 40,0                               | 7,0              |
| VK           | 40,0                               | 7,0              |
| EC           | 40,0                               | 8,0              |
| ECW          | 41,2                               | 7,9              |
| EC           | 42,0                               | 7,0              |
| VK           | 42,0                               | 7,0              |
| EC           | 42,0                               | 8,0              |
| EC           | 42,0                               | 9,5              |
| VK           | 42,0                               | 9,5              |
| ECXW         | 42,5                               | 9,0              |
| EC           | 44,0                               | 7,0              |
| ECW          | 44,5                               | 7,9              |
| EC           | 45,0                               | 5,0              |
| ECY          | 45,0                               | 5,5/13           |
| EC           | 45,3                               | 6,4              |
| EC           | 46,0                               | 6,4              |
| EC           | 47,0                               | 4,0              |
| EC           | 47,0                               | 5,0              |
| EC           | 47,0                               | 6,5              |
| EC           | 47,0                               | 7,0              |
| VK           | 47,0                               | 7,0              |
| EC           | 47,0                               | 8,0              |
| EC           | 47,0                               | 8,0              |
| EC5Y         | 47/53,0                            | 8,0              |
| EC5Y         | 47/54,0                            | 8,0              |
| ECW          | 47,0                               | 8,5              |
| EC           | 47,0                               | 10,0             |
| VK           | 47,0                               | 10,0             |
| VK           | 47,0                               | 10,0             |
| ECWY         | 47,0                               | 14,7/16,7        |
| EC           | 50,0                               | 7,0              |
| EC5Y         | 50/58,0                            | 7,0              |
| EC           | 50,0                               | 9,0              |
| EC           | 50,0                               | 10,0             |
| ECY          | 50,0                               | 11/5,0           |
| VKY          | 50,0                               | 11/13,0          |
| EC           | 50,0                               | 16,0             |
| ECWY         | 50,0                               | 18/20,5          |
| ECW          | 50,3                               | 7,9              |
| EC           | 50,8                               | 6,4              |

| Tipo<br>Type | Dimensioni (mm)<br>Dimensions (mm) |                  |
|--------------|------------------------------------|------------------|
|              | Diametro<br>Diameter               | Altezza<br>Width |
| EC           | 50,8                               | 7,9              |
| EC5Y         | 50,8                               | 7,9/17,45        |
| EC           | 52,0                               | 6,0              |
| EC           | 52,0                               | 6,5              |
| EC           | 52,0                               | 7,0              |
| VK           | 52,0                               | 7,0              |
| EC           | 52,0                               | 8,0              |
| EC5Y         | 52/58,0                            | 8,0              |
| ECW          | 52,0                               | 9,0              |
| EC           | 52,0                               | 10,0             |
| EC           | 52,0                               | 10,0             |
| VK           | 52,0                               | 10,0             |
| VK           | 52,0                               | 10,0             |
| ECW          | 52,4                               | 8,5              |
| EC5Y         | 54,9                               | 5,0              |
| EC5Y         | 54,9/59                            | 6/7,6            |
| EC5Y         | 54,9/59                            | 7/8,3            |
| EC           | 55,0                               | 4,0              |
| EC           | 55,0                               | 6,0              |
| EC           | 55,0                               | 7,0              |
| VK           | 55,0                               | 7,0              |
| VK           | 55,0                               | 8,0              |
| EC           | 55,0                               | 10,0             |
| VK           | 55,0                               | 10,0             |
| EC           | 56,0                               | 10,0             |
| EC           | 57,0                               | 8,0              |
| ECXW         | 57,0                               | 10,5             |
| ECW          | 57,2                               | 7,9              |
| EC           | 58,0                               | 6,0              |
| EC           | 58,0                               | 7,0              |
| EC           | 58,7                               | 7,9              |
| EC           | 58,8                               | 7,9              |
| EC           | 60,0                               | 7,0              |
| EC           | 60,0                               | 8,0              |
| ECY          | 60,0                               | 11/5,0           |
| EC           | 60,0                               | 16,0             |
| ECW          | 60,3                               | 7,9              |
| EC5Y         | 61,0                               | 7/11,5           |
| EC           | 61,9                               | 7,9              |
| EC           | 62,0                               | 4,3              |
| EC           | 62,0                               | 6,4              |
| EC           | 62,0                               | 7,0              |
| EC           | 62,0                               | 8,0              |
| ECW          | 62,0                               | 8,0              |
| VK           | 62,0                               | 8,0              |
| ECW          | 62,0                               | 8,9              |
| EC           | 62,0                               | 9,5              |
| EC           | 62,0                               | 10,0             |
| EC5Y         | 62/72,0                            | 10,0             |
| EC           | 62,0                               | 12,0             |
| EC           | 63,5                               | 7,9              |
| EC           | 65,0                               | 8,0              |
| EC           | 65,0                               | 10,0             |
| VK           | 65,0                               | 10,0             |
| EC           | 66,6                               | 7,9              |
| EC           | 68,0                               | 8,0              |
| VK           | 68,0                               | 8,0              |
| EC           | 69,0                               | 10,0             |
| ECY          | 70,0                               | 5,5              |

| Tipo<br>Type | Dimensioni (mm)<br>Dimensions (mm) |                  |
|--------------|------------------------------------|------------------|
|              | Diametro<br>Diameter               | Altezza<br>Width |
| EC           | 70,0                               | 7,9              |
| VK           | 70,0                               | 8,0              |
| EC           | 70,0                               | 10,0             |
| ECY          | 70,0                               | 11/5,0           |
| EC           | 70,0                               | 16,0             |
| EC           | 72,0                               | 7,0              |
| ECW          | 72,0                               | 8,5              |
| EC           | 72,0                               | 9,0              |
| EC           | 72,0                               | 9,0              |
| VK           | 72,0                               | 9,0              |
| ECW          | 72,0                               | 9,8              |
| EC           | 72,0                               | 10,0             |
| EC5Y         | 72/77,0                            | 10/12,0          |
| EC           | 75,0                               | 7,0              |
| VK           | 75,0                               | 7,0              |
| EC           | 75,0                               | 10,0             |
| EC           | 75,0                               | 12,0             |
| EC5Y         | 75,4                               | 6,4              |
| ECW          | 80,0                               | 6,4              |
| EC           | 80,0                               | 8,0              |
| EC5          | 80/85,0                            | 8,0              |
| VK           | 80,0                               | 8,0              |
| VK5Y         | 80/85,0                            | 8,0              |
| EC           | 80,0                               | 10,0             |
| EC           | 80,0                               | 12,0             |
| ECW          | 80,0                               | 12,0             |
| VK           | 80,0                               | 12,0             |
| EC           | 80,0                               | 16,0             |
| VK5Y         | 80,1/85                            | 8/16,0           |
| EC           | 81,0                               | 12,0             |
| EC           | 82,7                               | 6,4              |
| EC           | 83,0                               | 7,0              |
| EC           | 85,0                               | 10,0             |
| VK           | 85,0                               | 10,0             |
| ECW          | 85,0                               | 10,7             |
| EC           | 85,0                               | 12,0             |
| VK           | 85,0                               | 12,0             |
| ECY          | 85,0                               | 15/5,0           |
| EC           | 85,0                               | 20,0             |
| EC           | 87,0                               | 12,0             |
| EC           | 88,9                               | 9,5              |
| EC           | 90,0                               | 7,0              |
| EC           | 90,0                               | 8,0              |
| EC           | 90,0                               | 10,0             |
| ECW          | 90,0                               | 11,5             |
| EC           | 90,0                               | 12,0             |
| VK           | 90,0                               | 12,0             |
| EC           | 95,0                               | 10,0             |
| ECW          | 95,0                               | 10,0             |
| VK           | 95,0                               | 12,0             |
| EC           | 100,0                              | 10,0             |
| ECW          | 100,0                              | 11,3             |
| EC           | 100,0                              | 12,0             |
| VK           | 100,0                              | 12,0             |
| EC           | 100,0                              | 25,0             |
| EC           | 100,0                              | 31,0             |
| ECY          | 110,0                              | 8/22,0           |
| EC           | 110,0                              | 10,0             |
| EC           | 110,0                              | 12,0             |

| Tipo<br>Type | Dimensioni (mm)<br>Dimensions (mm) |                  |
|--------------|------------------------------------|------------------|
|              | Diametro<br>Diameter               | Altezza<br>Width |
| VK           | 110,0                              | 12,0             |
| EC           | 110,0                              | 21,0             |
| VK           | 115,0                              | 12,0             |
| ECY          | 120,0                              | 6,5/12           |
| EC           | 120,0                              | 8,0              |
| ECY          | 120,0                              | 8,5              |
| EC           | 120,0                              | 12,0             |
| VK           | 120,0                              | 12,0             |
| EC           | 120,0                              | 27,0             |
| EC           | 120,0                              | 33,0             |
| EC           | 125,0                              | 12,0             |
| VK           | 125,0                              | 12,0             |
| ECY          | 130,0                              | 6,5/27           |
| EC           | 130,0                              | 8,0              |
| EC           | 130,0                              | 12,0             |
| VK           | 130,0                              | 12,0             |
| EC           | 130,0                              | 27,0             |
| EC           | 140,0                              | 12,0             |
| EC           | 140,0                              | 15,0             |
| VK           | 140,0                              | 15,0             |
| EC           | 140,0                              | 37,0             |
| VK           | 145,0                              | 12,0             |
| EC           | 145,0                              | 15,0             |
| EC           | 150,0                              | 15,0             |
| VK           | 150,0                              | 15,0             |
| EC           | 150,0                              | 27,0             |
| EC           | 160,0                              | 15,0             |
| VK           | 160,0                              | 15,0             |
| EC           | 165,0                              | 12,0             |
| EC           | 167,0                              | 15,0             |
| EC           | 168,0                              | 15,0             |
| EC           | 170,0                              | 15,0             |
| VK           | 170,0                              | 15,0             |
| EC           | 170,0                              | 43,0             |
| EC           | 180,0                              | 12,0             |
| EC           | 180,0                              | 15,0             |
| EC           | 180,0                              | 30,0             |
| EC           | 185,0                              | 15,0             |
| EC           | 190,0                              | 12,0             |
| EC           | 200,0                              | 13,0             |
| VK           | 200,0                              | 13,0             |
| EC           | 210,0                              | 15,0             |
| VK           | 210,0                              | 15,0             |
| EC           | 210,0                              | 27,0             |
| EC           | 225,0                              | 14,0             |
| VK           | 225,0                              | 14,0             |
| EC           | 230,0                              | 14,0             |
| VK           | 230,0                              | 14,0             |
| EC           | 235,0                              | 15,0             |
| EC           | 240,0                              | 15,0             |
| VK           | 240,0                              | 15,0             |
| EC           | 260,0                              | 15,0             |
| EC           | 270,0                              | 15,0             |
| EC           | 290,0                              | 15,0             |



| Tipo<br>Type | Dimensioni Dimensions (mm)    |                  |               |
|--------------|-------------------------------|------------------|---------------|
|              | Diametro Diameter<br>Internal | Esterno External | Altezza Width |
| VCW          | 6,0                           | 15,0             | 3,3           |
| VCW          | 7,0                           | 15,0             | 5,0           |
| VCW          | 8,0                           | 12,0             | 3,0           |
| VCW          | 8,0                           | 14,0             | 4,0           |
| VCW          | 8,0                           | 15,0             | 3,0           |
| VCW          | 9,0                           | 13,0             | 3,0           |
| VCW          | 9,0                           | 16,0             | 3,0           |
| VCW          | 10,0                          | 14,0             | 3,0           |
| VCW          | 10,0                          | 17,0             | 3,0           |
| VCW          | 10,0                          | 29,7             | 3,0           |
| VCW          | 12,0                          | 16,0             | 3,0           |
| VCW          | 12,0                          | 18,0             | 3,0           |
| VCW          | 12,0                          | 19,0             | 3,0           |
| VCW          | 12,0                          | 29,6             | 3,0           |
| VCW          | 12,0                          | 29,7             | 3,0           |
| VCW          | 13,0                          | 19,0             | 3,0           |
| VCW          | 14,0                          | 20,0             | 3,0           |
| VCW          | 14,0                          | 21,0             | 3,0           |
| VCW          | 14,0                          | 22,0             | 3,0           |
| VCW          | 14,0                          | 22,0             | 4,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                  |               |
|--------------|-------------------------------|------------------|---------------|
|              | Diametro Diameter<br>Internal | Esterno External | Altezza Width |
| VCW          | 14,0                          | 26,0             | 3,0           |
| VCW          | 15,0                          | 21,0             | 3,0           |
| VCW          | 16,0                          | 22,0             | 3,0           |
| VCW          | 16,0                          | 24,0             | 3,0           |
| VCW          | 16,0                          | 25,0             | 3,0           |
| VCWY         | 16,0                          | 27,0             | 5,5/7         |
| VCW          | 17,0                          | 23,0             | 3,0           |
| VCW          | 17,0                          | 25,0             | 3,0           |
| VCW          | 18,0                          | 24,0             | 3,0           |
| VCW          | 18,0                          | 24,0             | 4,0           |
| VCW          | 18,0                          | 26,0             | 4,0           |
| VCW          | 20,0                          | 26,0             | 3,0           |
| VCW          | 20,0                          | 26,0             | 4,0           |
| VCW          | 20,0                          | 28,0             | 4,0           |
| VCW          | 22,0                          | 28,0             | 4,0           |
| VCW          | 22,0                          | 30,0             | 4,0           |
| VCW          | 22,0                          | 30,0             | 4,0           |
| VCW          | 24,0                          | 32,0             | 4,0           |
| VCWY         | 24,0                          | 47,0             | 10,0          |
| VCW          | 25,0                          | 32,0             | 4,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                  |               |
|--------------|-------------------------------|------------------|---------------|
|              | Diametro Diameter<br>Internal | Esterno External | Altezza Width |
| VCW          | 25,0                          | 34,0             | 4,0           |
| VCW          | 25,0                          | 35,0             | 4,0           |
| VCW          | 27,0                          | 35,0             | 4,0           |
| VCW          | 28,0                          | 35,0             | 4,0           |
| VCW          | 28,0                          | 37,0             | 4,0           |
| VCW          | 29,8                          | 42,1             | 6,4           |
| VCW          | 30,0                          | 37,0             | 4,0           |
| VCW          | 30,0                          | 38,0             | 4,0           |
| VCW          | 30,0                          | 40,0             | 4,0           |
| VCW          | 30,0                          | 42,0             | 9,0           |
| VCW          | 30,0                          | 50,0             | 5,0           |
| VCWY         | 30,0                          | 52,0             | 11/12,5       |
| VCW          | 30,0                          | 55,0             | 5,0           |
| VCW          | 30,0                          | 56,0             | 5,0           |
| VCW          | 31,0                          | 38,0             | 4,0           |
| VCW          | 32,0                          | 42,0             | 4,0           |
| VCW          | 33,0                          | 40,0             | 3,0           |
| VCW          | 35,0                          | 40,0             | 10,0          |
| VCW          | 35,0                          | 42,0             | 4,0           |
| VCW          | 35,0                          | 45,0             | 4,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                  |               |
|--------------|-------------------------------|------------------|---------------|
|              | Diametro Diameter<br>Internal | Esterno External | Altezza Width |
| VCW          | 35,0                          | 45,0             | 5,0           |
| VCW          | 37,0                          | 47,0             | 4,0           |
| VCW          | 37,0                          | 47,5             | 5,0           |
| VCW          | 38,0                          | 45,0             | 4,0           |
| VCW          | 38,0                          | 48,0             | 4,0           |
| VCW          | 40,0                          | 47,0             | 4,0           |
| VCW          | 40,0                          | 50,0             | 4,0           |
| VCW          | 40,0                          | 52,0             | 5,0           |
| VCW          | 42,0                          | 52,0             | 4,0           |
| VCW          | 42,0                          | 52,5             | 5,0           |
| VCW          | 42,0                          | 55,0             | 6,0           |
| VCW          | 45,0                          | 50,0             | 4,0           |
| VCW          | 45,0                          | 52,0             | 4,0           |
| VCW          | 45,0                          | 55,0             | 4,0           |
| VCW          | 45,0                          | 71,0             | 5,0           |
| VCW          | 46,0                          | 54,0             | 4,0           |
| VCW          | 46,0                          | 58,0             | 5,0           |
| VCW          | 47,0                          | 57,0             | 3/4,5         |
| VCWY         | 47,0                          | 72,0             | 12/14,5       |
| VCW          | 50,0                          | 58,0             | 4,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm)    |                  |               |
|--------------|-------------------------------|------------------|---------------|
|              | Diametro Diameter<br>Internal | Esterno External | Altezza Width |
| VCW          | 50,0                          | 58,0             | 4,0           |
| VCW          | 50,0                          | 58,0             | 5,0           |
| VCW          | 50,0                          | 60,5             | 5,0           |
| VCW          | 50,0                          | 62,0             | 5,0           |
| VCW          | 53,0                          | 65,0             | 5,0           |
| VCW          | 58,0                          | 70,5             | 5,0           |
| VCW          | 63,0                          | 75,0             | 5,0           |
| VCW          | 68,0                          | 78,0             | 3/4,5         |
| VCW          | 70,0                          | 78,0             | 5,0           |
| VCW          | 72,0                          | 85,5             | 5,0           |
| VCW          | 76,0                          | 90,5             | 6,0           |
| VCW          | 80,0                          | 95,0             | 5,0           |
| HVCWJ        | 81,9                          | 96,0             | 9,0           |
| HVCWJ        | 81,9                          | 96,0             | 9,0           |
| HVCWJ        | 81,9                          | 96,0             | 9/35,0        |
| HVCWJ        | 81,9                          | 96,0             | 9/35,0        |
| VCW          | 90,0                          | 105,0            | 5,0           |
|              |                               |                  |               |
|              |                               |                  |               |
|              |                               |                  |               |

# Anelli di tenuta per bussole di scorrimento

## Seals for sliding ball bushing

VC



TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| VC           | 3,2                        | 12,7             | 6,4           |
| VC           | 4,0                        | 9,0              | 3,0           |
| VC           | 4,0                        | 18,0             | 4,0           |
| VC           | 4,5                        | 26,0             | 5,0           |
| VC           | 4,5                        | 26,0             | 8,0           |
| VC           | 4,8                        | 14,5             | 4,0           |
| VC           | 4,8                        | 15,0             | 4,0           |
| VC           | 5,0                        | 10,0             | 4,0           |
| VC           | 5,0                        | 11,0             | 3,0           |
| VC           | 5,0                        | 14,0             | 4,0           |
| VC           | 5,0                        | 15,0             | 6,0           |
| VC           | 5,5                        | 9,0              | 3,0           |
| VC           | 5,5                        | 11,0             | 4,0           |
| VC           | 6,0                        | 10,0             | 2,5           |
| VC           | 6,0                        | 10,0             | 4,0           |
| VC           | 6,0                        | 11,0             | 4,0           |
| VC           | 6,0                        | 11,0             | 4,5           |
| VC           | 6,0                        | 12,0             | 5,0           |
| VC           | 6,0                        | 14,0             | 4,0           |
| VC           | 6,0                        | 18,0             | 4,5           |
| VC           | 6,0                        | 19,0             | 5,0           |
| VC           | 6,0                        | 19,0             | 7,0           |
| VC           | 6,0                        | 22,0             | 7,0           |
| VC           | 6,4                        | 12,7             | 4,8           |
| VC           | 6,4                        | 12,7             | 3,2           |
| VC           | 6,4                        | 12,7             | 3,2           |
| VC           | 6,4                        | 19,1             | 6,4           |
| VC           | 7,0                        | 13,0             | 4,0           |
| VC           | 7,0                        | 13,8             | 4,0           |
| VC           | 7,0                        | 14,0             | 4,0           |
| VC           | 7,0                        | 20,0             | 5,0           |
| VC           | 7,5                        | 19,0             | 4,5           |
| VC           | 7,8                        | 13,7             | 2,5           |
| VC           | 7,9                        | 11,0             | 2,0           |
| VC           | 7,9                        | 14,3             | 6,0           |
| VC           | 7,9                        | 12,7             | 3,2           |
| VC           | 8,0                        | 12,0             | 3,0           |
| VC           | 8,0                        | 12,0             | 3,0           |
| VC           | 8,0                        | 12,0             | 4,0           |
| VC           | 8,0                        | 14,0             | 4,0           |
| VC           | 8,0                        | 15,0             | 5,0           |
| VC           | 8,0                        | 16,0             | 4,0           |
| VC           | 8,0                        | 17,8             | 5,0           |
| VC           | 8,6                        | 14,0             | 3,0           |
| VC           | 8,9                        | 17,0             | 4,0           |
| VC           | 8,9                        | 20,0             | 4,0           |
| VC           | 9,0                        | 17,5             | 4,0           |
| VC           | 9,0                        | 18,0             | 5,0           |
| VC           | 9,5                        | 17,5             | 4,0           |
| VC           | 9,5                        | 19,1             | 6,4           |
| VC           | 9,5                        | 20,8             | 6,4           |
| VC           | 9,5                        | 19,1             | 4,3           |
| VC           | 10,0                       | 15,0             | 3,0           |
| VC           | 10,0                       | 15,0             | 4,0           |
| VC           | 10,0                       | 17,0             | 3,5           |
| VC           | 10,0                       | 17,0             | 5,0           |
| VC           | 10,0                       | 19,0             | 4,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| VC           | 10,0                       | 20,0             | 5,0           |
| VC           | 10,0                       | 22,0             | 3,0           |
| VC           | 10,0                       | 24,0             | 4,0           |
| VC           | 10,7                       | 15,8             | 3,0           |
| VC           | 10,8                       | 20,0             | 9,0           |
| VC           | 11,0                       | 17,0             | 3,0           |
| VC           | 11,0                       | 17,0             | 6,0           |
| VC           | 11,1                       | 15,9             | 3,2           |
| VC           | 11,9                       | 25,0             | 4,5           |
| VC           | 12,0                       | 18,2             | 3,2           |
| VC           | 12,0                       | 18,2             | 3,2           |
| VC           | 12,0                       | 16,0             | 2,5           |
| VC           | 12,0                       | 17,0             | 2,5           |
| VC           | 12,0                       | 17,0             | 5,0           |
| VC           | 12,0                       | 17,0             | 6,0           |
| VC           | 12,0                       | 18,0             | 3,0           |
| VC           | 12,0                       | 18,0             | 4,0           |
| VC           | 12,0                       | 18,0             | 5,0           |
| VC           | 12,0                       | 19,0             | 3,0           |
| VC           | 12,0                       | 20,0             | 4,0           |
| VC           | 12,0                       | 22,0             | 3,0           |
| VC           | 12,0                       | 22,0             | 4,0           |
| VC           | 12,0                       | 24,0             | 4,0           |
| VC           | 12,0                       | 25,0             | 4,5           |
| VC           | 12,5                       | 22,2             | 6,4           |
| VC           | 12,7                       | 23,0             | 2,2           |
| VC           | 12,7                       | 17,5             | 2,5           |
| VC           | 12,7                       | 19,1             | 3,2           |
| VC           | 12,7                       | 19,1             | 4,4           |
| VC           | 12,7                       | 22,2             | 3,2           |
| VC           | 12,7                       | 25,4             | 6,4           |
| VC           | 12,7                       | 25,4             | 4,5           |
| VC           | 12,8                       | 19,4             | 2,5           |
| VC           | 13,0                       | 19,0             | 3,0           |
| VC           | 13,0                       | 31,0             | 8,5           |
| VC           | 13,0                       | 32,0             | 9,0           |
| VC           | 14,0                       | 20,0             | 4,0           |
| VC           | 14,0                       | 22,0             | 4,0           |
| VC           | 14,0                       | 24,0             | 4,0           |
| VC           | 14,0                       | 25,0             | 5,0           |
| VC           | 14,0                       | 31,0             | 8,5           |
| VC           | 14,3                       | 24,4             | 5,0           |
| VC           | 14,5                       | 32,0             | 9,0           |
| VC           | 15,0                       | 19,0             | 6,0           |
| VC           | 15,0                       | 21,0             | 3,0           |
| VC           | 15,0                       | 21,0             | 5,0           |
| VC           | 15,0                       | 22,0             | 5,0           |
| VC           | 15,0                       | 23,0             | 3,0           |
| VC           | 15,0                       | 23,0             | 4,0           |
| VC           | 15,0                       | 25,0             | 4,0           |
| VC           | 15,0                       | 26,0             | 3,5           |
| VC           | 15,0                       | 30,0             | 5,0           |
| VC           | 15,1                       | 23,8             | 4,5           |
| VC           | 15,3                       | 20,6             | 2,4           |
| VC           | 15,3                       | 20,6             | 2,4           |
| VC           | 15,6                       | 25,4             | 6,4           |
| VC           | 15,8                       | 26,0             | 2,2           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| VC           | 15,8                       | 26,0             | 2,2           |
| VC           | 15,9                       | 20,6             | 2,4           |
| VC           | 15,9                       | 20,6             | 3,2           |
| VC           | 15,9                       | 22,2             | 2,5           |
| VC           | 15,9                       | 22,2             | 3,2           |
| VC           | 15,9                       | 23,8             | 4,8           |
| VC           | 16,0                       | 20,0             | 2,5           |
| VC           | 16,0                       | 22,0             | 3,0           |
| VC           | 16,0                       | 22,3             | 2,4           |
| VC           | 16,0                       | 22,7             | 2,0           |
| VC           | 16,0                       | 23,0             | 3,0           |
| VC           | 16,0                       | 23,0             | 5,0           |
| VC           | 16,0                       | 24,0             | 4,0           |
| VC           | 16,0                       | 25,0             | 5,0           |
| VC           | 16,0                       | 26,0             | 3,0           |
| VC           | 16,0                       | 30,0             | 3,0           |
| VC           | 16,0                       | 30,0             | 5,0           |
| VC           | 17,0                       | 21,0             | 3,2           |
| VC           | 17,0                       | 22,0             | 5,0           |
| VC           | 17,0                       | 22,0             | 6,0           |
| VC           | 17,0                       | 23,0             | 3,0           |
| VC           | 17,0                       | 26,0             | 2,0           |
| VC           | 17,0                       | 26,0             | 3,0           |
| VC           | 17,0                       | 30,0             | 5,0           |
| VC           | 17,0                       | 35,0             | 4,8           |
| VC           | 17,5                       | 31,8             | 6,4           |
| VC           | 18,0                       | 22,0             | 7,0           |
| VC           | 18,0                       | 24,0             | 4,0           |
| VC           | 18,5                       | 26,0             | 4,5           |
| VC           | 19,0                       | 26,0             | 4,0           |
| VC           | 19,1                       | 25,4             | 3,2           |
| VC           | 19,1                       | 27,0             | 4,6           |
| VC           | 19,1                       | 27,1             | 4,6           |
| VC           | 19,1                       | 31,8             | 6,4           |
| VC           | 20,0                       | 25,0             | 2,5           |
| VC           | 20,0                       | 25,4             | 3,2           |
| VC           | 20,0                       | 26,0             | 4,0           |
| VC           | 20,0                       | 28,0             | 5,0           |
| VC           | 20,0                       | 30,0             | 4,0           |
| VC           | 20,0                       | 30,0             | 7,0           |
| VC           | 20,0                       | 32,0             | 5,0           |
| VC           | 20,0                       | 40,0             | 5,0           |
| VC           | 20,4                       | 27,0             | 2,0           |
| VC           | 21,0                       | 37,0             | 7,0           |
| VC           | 22,0                       | 26,0             | 6,0           |
| VC           | 22,0                       | 29,0             | 4,0           |
| VC           | 22,0                       | 29,0             | 5,0           |
| VC           | 22,0                       | 30,0             | 4,0           |
| VC           | 22,0                       | 31,0             | 5,0           |
| VC           | 22,2                       | 28,6             | 3,2           |
| VC           | 22,2                       | 30,2             | 4,8           |
| VC           | 22,2                       | 34,9             | 6,4           |
| VC           | 22,2                       | 38,1             | 6,4           |
| VC           | 22,5                       | 29,0             | 5,0           |
| VC           | 22,9                       | 38,1             | 6,4           |
| VC           | 23,0                       | 30,0             | 4,0           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| VC           | 23,0                       | 31,8             | 5,5           |
| VC           | 23,3                       | 29,7             | 4,0           |
| VC           | 23,8                       | 34,9             | 6,4           |
| VC           | 23,8                       | 30,2             | 3,2           |
| VC           | 23,8                       | 36,5             | 6,4           |
| VC           | 24,0                       | 29,6             | 4,0           |
| VC           | 24,0                       | 31,0             | 4,0           |
| VC           | 24,0                       | 31,7             | 4,0           |
| VC           | 24,0                       | 33,2             | 4,0           |
| VC           | 24,0                       | 36,0             | 4,0           |
| VC           | 24,0                       | 38,0             | 5,0           |
| VC           | 25,0                       | 30,0             | 4,0           |
| VC           | 25,0                       | 31,0             | 5,0           |
| VC           | 25,0                       | 32,0             | 4,0           |
| VC           | 25,0                       | 35,0             | 7,0           |
| VC           | 25,0                       | 38,0             | 5,0           |
| VC           | 25,0                       | 42,0             | 5,0           |
| VC           | 25,3                       | 39,1             | 7,4           |
| VC           | 25,4                       | 31,8             | 3,2           |
| VC           | 25,4                       | 38,1             | 6,4           |
| VC           | 25,4                       | 38,1             | 6,4           |
| VC           | 25,4                       | 39,7             | 4,8           |
| VC           | 25,4                       | 41,3             | 4,8           |
| VC           | 25,4                       | 50,8             | 6,4           |
| VC           | 26,0                       | 35,0             | 4,0           |
| VC           | 26,0                       | 40,0             | 5,0           |
| VC           | 27,0                       | 32,0             | 3,2           |
| VC           | 27,0                       | 38,1             | 6,4           |
| VC           | 27,0                       | 39,7             | 3,2           |
| VC           | 27,0                       | 41,3             | 4,8           |
| VC           | 28,0                       | 32,0             | 7,0           |
| VC           | 28,0                       | 35,0             | 5,0           |
| VC           | 28,0                       | 37,0             | 4,0           |
| VC           | 28,0                       | 37,0             | 6,0           |
| VC           | 28,0                       | 38,0             | 5,0           |
| VC           | 28,0                       | 40,0             | 5,0           |
| VC           | 28,0                       | 42,0             | 4,0           |
| VC           | 28,0                       | 47,0             | 4,0           |
| VC           | 28,6                       | 34,9             | 3,2           |
| VC           | 28,6                       | 39,7             | 6,4           |
| VC           | 28,6                       | 49,2             | 4,8           |
| VC           | 28,6                       | 49,2             | 9,5           |
| VC           | 30,0                       | 37,0             | 4,0           |
| VC           | 30,0                       | 40,0             | 7,0           |
| VC           | 30,0                       | 42,0             | 5,0           |
| VC           | 30,0                       | 42,0             | 6,4           |
| VC           | 30,0                       | 52,0             | 5,0           |
| VC           | 30,0                       | 62,0             | 6,0           |
| VC           | 30,5                       | 40,0             | 2,0           |
| VC           | 31,8                       | 38,1             | 4,0           |
| VC           | 31,8                       | 58,7             | 9,5           |
| VC           | 32,0                       | 40,0             | 5,0           |
| VC           | 32,0                       | 42,0             | 4,0           |
| VC           | 32,0                       | 52,0             | 5,0           |
| VC           | 33,3                       | 52,4             | 6,4           |
| VC           | 34,0                       | 39,0             | 3,0           |
| VC           | 35,0                       | 44,5             | 4,8           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| VC           | 35,0                       | 55,0             | 5,0           |
| VC           | 35,0                       | 62,0             | 5,0           |
| VC           | 36,5                       | 44,0             | 5,0           |
| VC           | 37,3                       | 47,6             | 4,8           |
| VC           | 38,0                       | 42,0             | 6,4           |
| VC           | 38,1                       | 52,4             | 5,3           |
| VC           | 38,1                       | 52,4             | 5,3           |
| VC           | 38,1                       | 68,3             | 9,5           |
| VC           | 40,0                       | 45,0             | 2,0           |
| VC           | 40,0                       | 47,0             | 4,0           |
| VC           | 40,0                       | 48,0             | 4,0           |
| VC           | 40,0                       | 50,0             | 4,0           |
| VC           | 40,0                       | 52,0             | 5,0           |
| VC           | 40,0                       | 52,0             | 6,0           |
| VC           | 40,0                       | 54,0             | 7,0           |
| VC           | 40,0                       | 60,0             | 5,0           |
| VC           | 40,0                       | 62,0             | 5,0           |
| VC           | 41,3                       | 50,8             | 4,8           |
| VC           | 42,0                       | 52,0             | 4,0           |
| VC           | 44,0                       | 55,0             | 5,0           |
| VC           | 45,0                       | 50,0             | 2,0           |
| VC           | 45,0                       | 50,0             | 8,0           |
| VC           | 45,0                       | 55,0             | 4,0           |
| VC           | 45,0                       | 62,0             | 5,0           |
| VC           | 45,0                       | 62,0             | 7,0           |
| VC           | 45,0                       | 65,0             | 8,0           |
| VC           | 45,0                       | 68,0             | 6,0           |
| VC           | 45,0                       | 70,0             | 5,0           |
| VC           | 47,6                       | 54,0             | 3,2           |
| VC           | 47,6                       | 61,0             | 7,0           |
| VC           | 48,0                       | 58,0             | 4,0           |
| VC           | 50,0                       | 68,0             | 7,0           |
| VC           | 50,0                       | 72,0             | 5,0           |
| VC           | 50,6                       | 111,4            | 4,8           |
| VC           | 50,8                       | 68,6             | 6,6           |
| VC           | 50,8                       | 82,8             | 15,9          |
| VC           | 53,5                       | 90,0             | 6,0           |
| VC           | 54,0                       | 73,4             | 6,4           |
| VC           | 57,2                       | 66,7             | 4,8           |
| VC           | 60,0                       | 72,0             | 6,0           |
| VC           | 60,0                       | 75,0             | 6,0           |
| VC           | 69,9                       | 88,9             | 4,0           |
| VC           | 70,0                       | 81,5             | 6,0           |
| VC           | 70,0                       | 92,0             | 7,0           |
| VC           | 77,5                       | 87,3             | 5,6           |
| VC           | 80,0                       | 90,0             | 3,4           |
| VC           | 80,0                       | 90,0             | 5,0           |
| VC           | 80,0                       | 100,0            | 7,0           |
| VC           | 85,7                       | 98,4             | 9,5           |
| VC           | 86,0                       | 100,6            | 6,0           |
| VC           | 90,0                       | 105,0            | 6,0           |
| VC           | 90,0                       | 105,0            | 10,0          |
| VC           | 95,0                       | 135,0            | 13,0          |
| VC           | 96,0                       | 110,5            | 6,0           |



# Anelli di tenuta per bussole di scorrimento

## Seals for sliding ball bushing

VB



TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  | Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  | Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  | Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  | Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  |
|--------------|----------------------------|----------------------|------------------|--------------|----------------------------|----------------------|------------------|--------------|----------------------------|----------------------|------------------|--------------|----------------------------|----------------------|------------------|--------------|----------------------------|----------------------|------------------|
|              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |
| VB           | 4,8                        | 12,7                 | 3,2              | VB           | 13,5                       | 22,2                 | 3,2              | VB           | 19,1                       | 30,2                 | 4,0              | VB           | 29,0                       | 36,0                 | 8,0              | VB           | 41,3                       | 44,5                 | 3,2              |
| VB           | 5,0                        | 9,0                  | 2,0              | VB           | 14,0                       | 16,5                 | 3,0              | VB           | 19,1                       | 38,1                 | 6,4              | VB           | 29,0                       | 38,0                 | 4,0              | VB           | 41,3                       | 47,6                 | 3,2              |
| VB           | 6,0                        | 10,0                 | 2,0              | VB           | 14,0                       | 18,0                 | 3,0              | VB           | 19,8                       | 27,1                 | 4,6              | VB           | 30,0                       | 33,4                 | 3,2              | VB           | 41,3                       | 47,6                 | 3,2              |
| VB           | 6,0                        | 10,0                 | 2,0              | VB           | 14,0                       | 20,0                 | 3,0              | VB           | 19,8                       | 31,8                 | 3,2              | VB           | 30,0                       | 35,0                 | 3,0              | VB           | 42,0                       | 52,0                 | 4,0              |
| VB           | 6,0                        | 12,0                 | 2,0              | VB           | 14,0                       | 22,0                 | 3,0              | VB           | 20,0                       | 26,0                 | 4,0              | VB           | 30,0                       | 36,0                 | 2,5              | VB           | 42,9                       | 60,3                 | 6,4              |
| VB           | 6,4                        | 12,7                 | 4,7              | VB           | 14,0                       | 22,0                 | 4,0              | VB           | 20,0                       | 28,0                 | 4,0              | VB           | 30,0                       | 37,0                 | 4,0              | VB           | 43,0                       | 53,0                 | 4,0              |
| VB           | 6,4                        | 15,9                 | 4,0              | VB           | 14,0                       | 24,0                 | 4,0              | VB           | 22,0                       | 28,0                 | 4,0              | VB           | 30,0                       | 37,0                 | 5,0              | VB           | 44,3                       | 47,8                 | 3,2              |
| VB           | 7,0                        | 11,0                 | 2,0              | VB           | 14,3                       | 22,2                 | 4,8              | VB           | 22,0                       | 30,0                 | 4,0              | VB           | 30,0                       | 38,0                 | 4,0              | VB           | 44,4                       | 50,8                 | 2,8              |
| VB           | 7,1                        | 10,8                 | 3,5              | VB           | 14,5                       | 32,0                 | 10,6             | VB           | 22,0                       | 32,0                 | 3,0              | VB           | 30,0                       | 40,0                 | 4,0              | VB           | 44,4                       | 50,8                 | 2,8              |
| VB           | 7,9                        | 12,7                 | 2,5              | VB           | 15,0                       | 21,0                 | 2,0              | VB           | 22,2                       | 28,6                 | 3,2              | VB           | 30,0                       | 42,0                 | 4,0              | VB           | 44,5                       | 54,0                 | 5,1              |
| VB           | 7,9                        | 15,9                 | 3,8              | VB           | 15,0                       | 21,0                 | 3,0              | VB           | 22,2                       | 28,6                 | 6,4              | VB           | 30,0                       | 45,0                 | 4,0              | VB           | 45,0                       | 50,0                 | 3,0              |
| VB           | 8,0                        | 12,0                 | 3,0              | VB           | 15,0                       | 22,0                 | 4,0              | VB           | 22,2                       | 30,2                 | 4,0              | VB           | 30,0                       | 45,0                 | 6,0              | VB           | 45,0                       | 52,0                 | 4,0              |
| VB           | 8,0                        | 14,0                 | 4,0              | VB           | 15,0                       | 32,0                 | 6,0              | VB           | 22,2                       | 30,2                 | 4,8              | VB           | 31,0                       | 37,0                 | 3,0              | VB           | 45,0                       | 54,0                 | 3,0              |
| VB           | 8,0                        | 14,0                 | 4,0              | VB           | 15,9                       | 20,6                 | 2,4              | VB           | 22,2                       | 31,9                 | 4,6              | VB           | 31,8                       | 38,1                 | 3,2              | VB           | 45,0                       | 55,0                 | 4,0              |
| VB           | 9,0                        | 12,7                 | 3,0              | VB           | 15,9                       | 20,6                 | 2,4              | VB           | 22,2                       | 33,2                 | 6,4              | VB           | 31,8                       | 38,1                 | 3,2              | VB           | 45,2                       | 54,0                 | 6,4              |
| VB           | 9,0                        | 13,0                 | 3,0              | VB           | 15,9                       | 22,2                 | 3,2              | VB           | 22,2                       | 34,9                 | 6,4              | VB           | 31,8                       | 41,3                 | 4,8              | VB           | 45,5                       | 56,6                 | 6,4              |
| VB           | 9,5                        | 14,3                 | 2,4              | VB           | 15,9                       | 23,7                 | 4,8              | VB           | 22,2                       | 36,5                 | 6,4              | VB           | 31,8                       | 57,2                 | 6,4              | VB           | 45,6                       | 48,8                 | 3,0              |
| VB           | 9,5                        | 14,3                 | 2,4              | VB           | 15,9                       | 23,7                 | 4,8              | VB           | 22,9                       | 38,1                 | 6,4              | VB           | 32,0                       | 42,0                 | 4,0              | VB           | 46,0                       | 49,2                 | 3,2              |
| VB           | 9,5                        | 16,5                 | 2,7              | VB           | 15,9                       | 23,8                 | 4,4              | VB           | 24,6                       | 31,8                 | 3,2              | VB           | 32,0                       | 45,0                 | 4,0              | VB           | 46,0                       | 55,0                 | 10,5             |
| VB           | 9,5                        | 19,1                 | 6,4              | VB           | 15,9                       | 25,4                 | 3,2              | VB           | 25,0                       | 32,0                 | 4,0              | VB           | 33,3                       | 52,4                 | 6,4              | VB           | 46,0                       | 58,0                 | 5,0              |
| VB           | 9,5                        | 22,2                 | 6,4              | VB           | 15,9                       | 25,4                 | 6,4              | VB           | 25,0                       | 32,0                 | 5,0              | VB           | 34,0                       | 40,0                 | 5,0              | VB           | 46,3                       | 66,6                 | 6,4              |
| VB           | 9,5                        | 23,8                 | 4,8              | VB           | 15,9                       | 27,0                 | 4,8              | VB           | 25,0                       | 33,0                 | 4,0              | VB           | 34,0                       | 41,0                 | 4,0              | VB           | 47,6                       | 52,3                 | 4,8              |
| VB           | 9,5                        | 15,9                 | 3,2              | VB           | 15,9                       | 27,0                 | 6,4              | VB           | 25,0                       | 34,0                 | 5,0              | VB           | 34,0                       | 44,0                 | 5,0              | VB           | 47,6                       | 69,1                 | 6,8              |
| VB           | 10,0                       | 14,0                 | 3,0              | VB           | 16,0                       | 22,0                 | 3,0              | VB           | 25,0                       | 35,0                 | 4,0              | VB           | 34,9                       | 44,5                 | 4,8              | VB           | 47,6                       | 75,3                 | 5,9              |
| VB           | 10,0                       | 15,0                 | 3,0              | VB           | 16,0                       | 24,0                 | 3,0              | VB           | 25,0                       | 35,0                 | 5,0              | VB           | 35,0                       | 39,0                 | 4,0              | VB           | 48,8                       | 52,0                 | 3,2              |
| VB           | 10,0                       | 16,0                 | 4,0              | VB           | 16,0                       | 24,0                 | 4,0              | VB           | 25,0                       | 38,0                 | 4,0              | VB           | 35,0                       | 41,0                 | 2,5              | VB           | 50,0                       | 55,0                 | 4,0              |
| VB           | 10,0                       | 17,0                 | 3,0              | VB           | 16,0                       | 30,0                 | 4,5              | VB           | 25,0                       | 39,0                 | 6,5/5,5          | VB           | 35,0                       | 41,0                 | 2,5              | VB           | 50,0                       | 58,0                 | 4,0              |
| VB           | 10,2                       | 26/34,0              | 4,5              | VB           | 16,5                       | 21,5                 | 3,0              | VB           | 25,4                       | 31,8                 | 3/3,2            | VB           | 35,0                       | 42,0                 | 4,0              | VB           | 50,5                       | 58,5                 | 4,5              |
| VB           | 11,0                       | 15,0                 | 3,0              | VB           | 17,0                       | 20,8                 | 3,2              | VB           | 25,4                       | 31,8                 | 3,2              | VB           | 35,0                       | 42,0                 | 4,0              | VB           | 50,8                       | 54,0                 | 3,2              |
| VB           | 11,0                       | 17,0                 | 3,0              | VB           | 17,0                       | 21,5                 | 3,0              | VB           | 25,4                       | 31,8                 | 3,2              | VB           | 35,0                       | 42,2                 | 5,7              | VB           | 50,8                       | 60,3                 | 4,8              |
| VB           | 11,1                       | 15,9                 | 3,2              | VB           | 17,0                       | 23,0                 | 3,0              | VB           | 25,4                       | 34,9                 | 4,8              | VB           | 35,0                       | 42,2                 | 5,7              | VB           | 50,8                       | 65,1                 | 12,7             |
| VB           | 11,1                       | 15,9                 | 3,2              | VB           | 17,0                       | 25,0                 | 5,0              | VB           | 25,4                       | 34,9                 | 4,8              | VB           | 35,0                       | 44,0                 | 4,0              | VB           | 52,0                       | 55,1                 | 3,2              |
| VB           | 11,1                       | 16,5                 | 2,5              | VB           | 17,5                       | 20,8                 | 3,2              | VB           | 26,0                       | 31,0                 | 3,0              | VB           | 35,0                       | 45,0                 | 4,0              | VB           | 54,0                       | 73,0                 | 6,4              |
| VB           | 11,1                       | 17,5                 | 3,2              | VB           | 17,5                       | 25,4                 | 4,8              | VB           | 26,0                       | 34,0                 | 4,0              | VB           | 35,0                       | 45,0                 | 6,0              | VB           | 57,2                       | 85,6                 | 9,5              |
| VB           | 11,1                       | 21,2                 | 4,8              | VB           | 17,5                       | 28,6                 | 6,4              | VB           | 26,6                       | 32,0                 | 4,5              | VB           | 35,8                       | 39,6                 | 3,0              | VB           | 60,0                       | 70,0                 | 5,0              |
| VB           | 11,5                       | 22,2                 | 4,8              | VB           | 17,8                       | 23,8                 | 4,8              | VB           | 27,0                       | 32,0                 | 3,2              | VB           | 36,5                       | 39,6                 | 3,0              | VB           | 60,0                       | 75,0                 | 4,0              |
| VB           | 11,9                       | 18,2                 | 3,2              | VB           | 18,0                       | 24,0                 | 4,0              | VB           | 27,0                       | 39,7                 | 3,2              | VB           | 37,0                       | 47,0                 | 4,0              | VB           | 60,3                       | 79,4                 | 9,5              |
| VB           | 11,9                       | 17,9                 | 3,2              | VB           | 18,0                       | 26,0                 | 4,0              | VB           | 27,0                       | 35,0                 | 4,0              | VB           | 38,0                       | 50,7                 | 6,4              | VB           | 63,5                       | 76,2                 | 6,4              |
| VB           | 11,9                       | 22,2                 | 5,6              | VB           | 18,3                       | 38,1                 | 6,4              | VB           | 28,0                       | 35,0                 | 2,5              | VB           | 38,0                       | 43,0                 | 3,0              | VB           | 70,2                       | 98,6                 | 4,8              |
| VB           | 12,0                       | 16,0                 | 3,0              | VB           | 18,5                       | 32,0                 | 10,6             | VB           | 28,0                       | 35,0                 | 3,0              | VB           | 38,0                       | 45,0                 | 4,0              | VB           | 78,0                       | 95,0                 | 3,9              |
| VB           | 12,0                       | 18,0                 | 3,0              | VB           | 18,7                       | 30,0                 | 4,5              | VB           | 28,0                       | 35,0                 | 4,0              | VB           | 38,0                       | 48,0                 | 4,0              | VB           | 90,0                       | 100,0                | 5,0              |
| VB           | 12,0                       | 18,0                 | 5,0              | VB           | 19,0                       | 27,0                 | 4,0              | VB           | 28,0                       | 37,0                 | 6,0              | VB           | 38,1                       | 41,4                 | 3,2              | VB           | 101,6                      | 118,5                | 2,2/2,5          |
| VB           | 12,0                       | 19,0                 | 3,0              | VB           | 19,1                       | 25,4                 | 3,2              | VB           | 28,0                       | 38,0                 | 4,0              | VB           | 38,1                       | 44,5                 | 4,0              | VB           | 125,0                      | 140,0                | 7,0              |
| VB           | 12,0                       | 20,0                 | 5,0              | VB           | 19,1                       | 25,4                 | 3,2              | VB           | 28,0                       | 39,0                 | 6,4              | VB           | 38,1                       | 44,5                 | 4,0              | VB           | 126,9                      | 139,7                | 6,4              |
| VB           | 12,7                       | 19,1                 | 3,2              | VB           | 19,1                       | 25,4                 | 3,2              | VB           | 28,6                       | 34,9                 | 3,2              | VB           | 38,1                       | 47,6                 | 4,8              | VB           | 130,0                      | 145,0                | 7,0              |
| VB           | 12,7                       | 19,8                 | 5,0              | VB           | 19,1                       | 25,4                 | 3,2              | VB           | 28,6                       | 34,9                 | 3,2              | VB           | 38,1                       | 50,8                 | 5,7              | VB           | 136,5                      | 149,3                | 4,9              |
| VB           | 12,7                       | 22,2                 | 5,6              | VB           | 19,1                       | 26,5                 | 4,1              | VB           | 28,6                       | 34,9                 | 3,2              | VB           | 40,0                       | 47,0                 | 4,0              |              |                            |                      |                  |
| VB           | 12,7                       | 22,2                 | 6,4              | VB           | 19,1                       | 28,6                 | 4,0              | VB           | 28,6                       | 36,5                 | 5,2              | VB           | 40,0                       | 50,0                 | 4,0              |              |                            |                      |                  |
| VB           | 13,0                       | 20,0                 | 5,0              | VB           | 19,1                       | 28,6                 | 4,0              | VB           | 28,6                       | 38,1                 | 4,8              | VB           | 40,0                       | 54,0                 | 5,0              |              |                            |                      |                  |
| VB           | 13,0                       | 32,0                 | 10,5             | VB           | 19,1                       | 28,6                 | 4,4              | VB           | 28,6                       | 38,1                 | 6,4              | VB           | 41,1                       | 64,3                 | 6,6              |              |                            |                      |                  |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| 1            | 3,05                       | 6,35             | 1,20          |               |
| 301          | 3,60                       | 7,50             | 1,00          |               |
| 201          | 4,10                       | 7,20             | 1,00          |               |
| 2            | 4,12                       | 7,26             | 1,20          |               |
| 202          | 4,50                       | 7,00             | 1,00          |               |
| 302          | 4,60                       | 9,00             | 1,00          | M4            |
| 3            | 5,21                       | 8,38             | 1,20          |               |
| 303          | 5,60                       | 10,00            | 1,00          |               |
| 203          | 5,70                       | 9,00             | 1,00          | M5            |
| 204          | 5,70                       | 10,00            | 1,00          |               |
| 205          | 6,20                       | 9,20             | 1,00          |               |
| 304          | 6,60                       | 11,00            | 1,00          |               |
| 206          | 6,70                       | 10,00            | 1,00          |               |
| 207          | 6,70                       | 11,00            | 1,00          | M6            |
| 208          | 6,70                       | 11,00            | 2,50          |               |
| 305          | 6,85                       | 13,27            | 1,30          |               |
| 4            | 6,86                       | 13,21            | 1,20          |               |
| 5            | 6,99                       | 13,34            | 1,20          |               |
| 306          | 7,00                       | 11,40            | 1,00          |               |
| 209          | 7,10                       | 12,00            | 1,00          |               |
| 210          | 7,30                       | 10,20            | 1,00          |               |
| 519          | 8,30                       | 12,70            | 1,20          |               |
| 6            | 8,31                       | 13,34            | 1,20          |               |
| 211          | 8,50                       | 13,40            | 1,00          |               |
| 307          | 8,60                       | 13,00            | 1,00          |               |
| 7            | 8,64                       | 14,22            | 1,20          | M8            |
| 212          | 8,70                       | 13,00            | 1,00          | M8            |
| 213          | 8,70                       | 14,00            | 1,00          |               |
| 214          | 8,70                       | 16,00            | 1,00          |               |
| 215          | 9,30                       | 13,30            | 1,00          |               |
| 216          | 10,35                      | 16,00            | 2,00          |               |
| 20           | 10,37                      | 15,88            | 2,00          | 1/8"          |
| 510          | 10,40                      | 14,70            | 1,20          | 1/8"CTP       |
| 217          | 10,70                      | 16,00            | 1,50          | M10           |
| 310          | 10,70                      | 17,00            | 1,50          |               |
| 218          | 10,70                      | 18,00            | 1,50          |               |
| 8            | 11,26                      | 18,36            | 2,00          | M10           |
| 219          | 11,40                      | 16,30            | 1,50          |               |
| 9            | 11,69                      | 19,05            | 2,00          | M11           |
| 312          | 11,80                      | 18,10            | 1,50          |               |
| 220          | 11,80                      | 18,50            | 1,50          |               |
| 221          | 11,80                      | 19,10            | 1,50          |               |
| 222          | 12,70                      | 18,00            | 1,50          |               |
| 313          | 12,70                      | 19,00            | 1,50          |               |
| 223          | 12,70                      | 20,00            | 1,50          | M12           |
| 224          | 13,70                      | 20,00            | 1,50          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| 225          | 13,70                      | 22,00            | 1,50          | M12-¼"        |
| 21           | 13,74                      | 20,57            | 2,00          |               |
| 315          | 13,80                      | 20,10            | 1,50          |               |
| 511          | 13,85                      | 18,70            | 1,20          | ¼" CTP        |
| 226          | 14,00                      | 18,70            | 1,50          |               |
| 316          | 14,70                      | 21,00            | 1,50          |               |
| 227          | 14,70                      | 22,00            | 1,50          | M14           |
| 10           | 14,86                      | 22,23            | 2,00          | M14           |
| 22           | 15,83                      | 22,23            | 2,00          |               |
| 228          | 16,00                      | 22,70            | 1,50          |               |
| 11           | 16,51                      | 25,40            | 2,00          | M16           |
| 317          | 16,70                      | 23,00            | 1,50          |               |
| 229          | 16,70                      | 24,00            | 1,50          | M16           |
| 319          | 17,20                      | 23,90            | 2,00          |               |
| 23           | 17,28                      | 23,80            | 2,00          | 3/8"          |
| 512          | 17,35                      | 22,70            | 1,20          | 3/8"CTP       |
| 230          | 17,40                      | 24,00            | 1,50          |               |
| 231          | 18,00                      | 24,70            | 1,50          |               |
| 12           | 18,16                      | 25,40            | 2,30          | M18           |
| 232          | 18,70                      | 26,00            | 1,50          | M18           |
| 320          | 18,70                      | 27,00            | 2,00          |               |
| 24           | 19,69                      | 26,92            | 2,30          |               |
| 233          | 20,70                      | 28,00            | 1,50          | M20           |
| 321          | 20,70                      | 29,00            | 2,00          |               |
| 234          | 21,50                      | 28,70            | 2,50          |               |
| 25           | 21,54                      | 28,58            | 2,50          | M20-½"        |
| 513          | 21,65                      | 26,70            | 1,20          | ½" CTP        |
| 235          | 22,50                      | 28,00            | 1,50          |               |
| 236          | 22,70                      | 30,00            | 2,00          | M22           |
| 237          | 22,70                      | 30,00            | 3,00          |               |
| 324          | 22,70                      | 31,00            | 2,00          |               |
| 26           | 23,49                      | 31,75            | 2,30          | M22-5/8"      |
| 325          | 23,70                      | 32,00            | 2,00          |               |
| 13           | 24,26                      | 33,27            | 2,30          | M24           |
| 238          | 24,70                      | 32,00            | 2,00          | M24           |
| 326          | 24,70                      | 33,00            | 2,00          |               |
| 239          | 26,70                      | 35,00            | 2,00          | M26           |
| 327          | 27,00                      | 35,30            | 2,00          |               |
| 27           | 27,05                      | 34,93            | 2,30          | M26-3/4"      |
| 240          | 27,20                      | 36,00            | 2,00          |               |
| 514          | 27,30                      | 32,50            | 1,20          | 3/4"CTP       |
| 520          | 27,30                      | 32,60            | 2,00          |               |
| 328          | 27,70                      | 36,00            | 2,00          |               |
| 28           | 27,82                      | 38,61            | 2,30          | M27           |
| 329          | 28,60                      | 36,00            | 2,00          |               |
| 241          | 28,70                      | 37,00            | 2,00          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| 330          | 29,20                      | 37,50            | 2,00          |               |
| 14           | 29,33                      | 36,58            | 2,30          |               |
| 331          | 30,70                      | 39,00            | 3,00          | M30           |
| 29           | 30,81                      | 38,10            | 2,30          | M30-7/8"      |
| 242          | 31,00                      | 39,00            | 2,00          |               |
| 15           | 32,64                      | 41,40            | 3,20          |               |
| 243          | 33,70                      | 42,00            | 2,00          | M33           |
| 31           | 33,89                      | 42,80            | 2,30          | M33-1"        |
| 30           | 33,89                      | 42,80            | 3,20          | M33-1"        |
| 515          | 34,20                      | 39,50            | 2,00          | 1"CTP         |
| 244          | 34,30                      | 43,00            | 2,00          |               |
| 16           | 35,94                      | 44,45            | 3,20          | M36           |
| 245          | 36,70                      | 46,00            | 2,00          | M36           |
| 333          | 37,00                      | 48,00            | 2,50          |               |
| 17           | 38,96                      | 47,75            | 3,20          | M38           |
| 246          | 40,00                      | 51,00            | 2,50          |               |
| 247          | 42,70                      | 53,00            | 3,00          | M42           |
| 516          | 42,80                      | 49,50            | 2,00          | 1 ¼"CTP       |
| 32           | 42,93                      | 52,38            | 3,20          | M42-1 ¼"      |
| 335          | 43,00                      | 54,00            | 2,50          |               |
| 18           | 45,34                      | 57,15            | 3,20          | M45           |
| 336          | 46,00                      | 57,00            | 2,50          |               |
| 33           | 48,44                      | 58,60            | 3,20          | 1 ½"          |
| 517          | 48,70                      | 55,50            | 2,00          | 1 ½"CTP       |
| 248          | 48,70                      | 59,00            | 3,00          | M48           |
| 337          | 49,00                      | 60,00            | 2,50          |               |
| 19           | 51,69                      | 63,50            | 3,20          |               |
| 249          | 52,00                      | 60,00            | 3,00          |               |
| 250          | 53,30                      | 64,50            | 3,00          |               |
| 34           | 54,89                      | 69,85            | 3,20          | M52-1 3/4     |
| 35           | 58,04                      | 70,36            | 3,20          |               |
| 518          | 60,50                      | 68,50            | 2,00          | 2"CTP         |
| 36           | 60,58                      | 73,03            | 3,20          | 2"            |
| 251          | 60,70                      | 73,00            | 3,00          |               |
| 37           | 64,39                      | 77,22            | 3,20          |               |
| 38           | 66,68                      | 79,50            | 3,20          | 2 ¼"          |
| 252          | 68,60                      | 79,50            | 3,50          |               |
| 39           | 76,08                      | 90,17            | 3,20          | 2 ½"          |
| 253          | 76,08                      | 90,30            | 3,38          |               |
| 254          | 89,09                      | 101,48           | 3,20          |               |
| 255          | 127,00                     | 143,67           | 5,00          |               |
|              |                            |                  |               |               |
|              |                            |                  |               |               |
|              |                            |                  |               |               |
|              |                            |                  |               |               |

# PROTEK®

**ELEVATA PROTEZIONE PER ALBERI ROTANTI**  
*HIGH PROTECTION FOR ROTATING SHAFTS*



**Anelli di tenuta \***  
*Shafts seals \**

## KOPRO®

## SKUDO®

**Prese di forza**  
*Power take-offs*

**Riduttori**  
*Final drives*

**Giunti**  
*Couplings*

**Macchine agricole**  
*Agricultural machines*

**Eolico**  
*Wind-energy*





Gli anelli di tenuta TTO Protek per alberi rotanti sono studiati per offrire durata superiore e maggiore protezione rispetto alle guarnizioni tradizionali. Gli anelli Protek si dividono in due famiglie:

Kopro protezione da bassa contaminazione esterna e da corpi estranei;

SKudo difesa totale dalla contaminazione esterna con assenza di usura per l'albero.

Gli anelli Kopro sono consigliati per montaggio su: giunti, pignoni, prese di forza, albero di ingresso di riduttori, macchine alimentari.

Gli anelli Skudo sono consigliati per montaggio su: assali, macchine agricole, macchine operatrici, macchine stradali, trattori, attrezzi agricoli, generatori eolici ed albero di uscita di riduttori.

Gli anelli Skudo forniscono la massima performance di tenuta presente sul mercato, offrendo contemporaneamente tenuta statica e tenuta dinamica. Il loro montaggio avviene per interferenza sia sulla sede che sull'albero e si differenziano per il numero di labirinti interni. Gli anelli Skudo offrono affidabilità in presenza di polvere, fango ed acqua, non consentono danneggiamenti in fase di manipolazione, non richiedono rettifica o tempra dell'albero e si possono sostituire senza intervenire meccanicamente sull'albero.

*TTO Protek Shaft seals are designed to offer a longer working time and greater protection in comparison with traditional seals. Protek seals are divided into two categories:*

*Kopro seals which guarantee protection from low external contamination and from external bodies;*

*Skudo seals which guarantee total protection against external contamination and do not wear the shaft.*

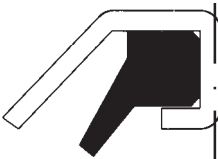
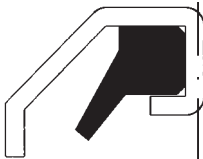
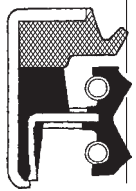
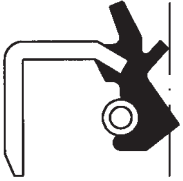
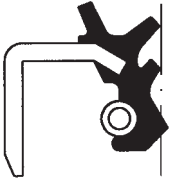
*Kopro seals are recommended for assembly on: joints, gears, power takeoff, entrance shaft for reduction gear, machines for food industry.*

*Skudo seals are recommended for assembly on: axles, agricultural machines, operating machines, roadworks machines, agricultural tools, aeolian generators and exit shafts for reduction gears.*

*Skudo seals are the seals with the higher performance present on the market and they can offer at the same time static and dynamic seal. They are assembled by means of interference both on the housing and on the shaft and present a high number of internal labyrinths. Skudo seals are efficient in case of dust, mud and water, do not cause damages during handling, do not need adjustment or hardening of the shaft and can be substituted without mechanical intervention on the shaft.*

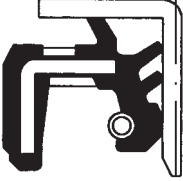
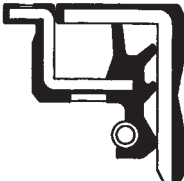


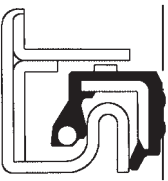
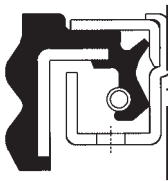
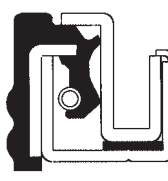
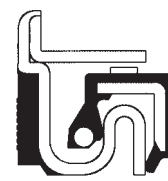
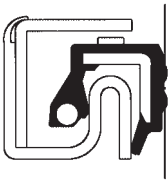
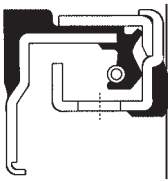
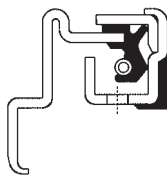
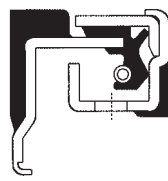
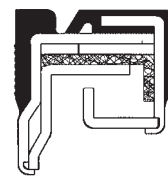
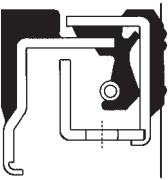
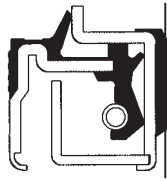
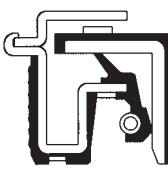
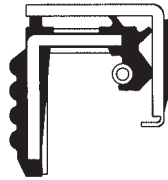
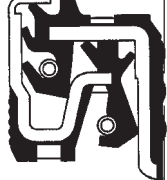
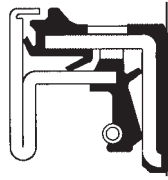
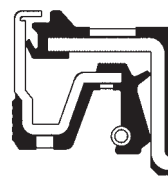
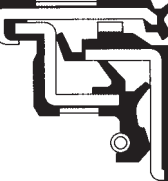
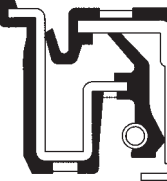
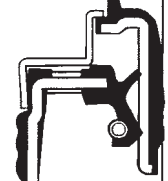
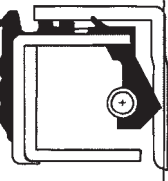
### Protezione della tenuta da Bassa contaminazione Seals which guarantee protection from low external contamination

| Tipo Type                                                                                               | Caratteristiche                                                           | Characteristics                                               | Tipo Type                                                                                          | Caratteristiche                                                            | Characteristics                                                      |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------|
| <br><b>R</b>           | Tenuta frontale leggera.<br>Protezione in aggiunta a tenuta esistente.    | Face seal.<br>Additional protection to the existing one.      | <br><b>9R</b>    | Tenuta frontale con meandro.<br>Protezione in aggiunta a tenuta esistente. | Face seal with groove.<br>Additional protection to the existing one. |
| <br><b>TAFM / TAFE</b> | Protezione con disco in poliuretano cellulare.                            | Protection by means of disc in cellular polyurethane.         | <br><b>TCN</b>   | Protezione con barriera metallica.                                         | Protection by means of metallic barrier.                             |
| <br><b>DAPU</b>       | Doppio labbro di tenuta con possibilità di ingrassaggio tra i due labbri. | Double lip with possibility of including grease between lips. | <br><b>TCA</b>  | Protezione leggera mediante barriera di grasso tra i labbri                | Light protection with grease between lips                            |
| <br><b>TC7</b>       | Protezione leggera mediante barriera di grasso tra i labbri               | Light protection with grease between lips                     | <br><b>TC9</b> | Protezione leggera mediante barriera di grasso tra i labbri                | Light protection with grease between lips                            |
| <br><b>TB7</b>       | Protezione leggera mediante barriera di grasso tra i labbri               | Light protection with grease between lips                     | <br><b>TB9</b> | Protezione leggera mediante barriera di grasso tra i labbri                | Light protection with grease between lips                            |

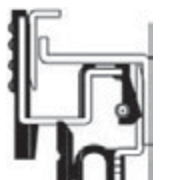
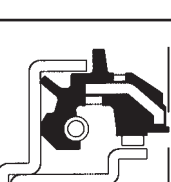
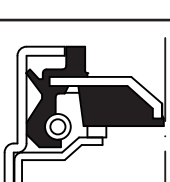


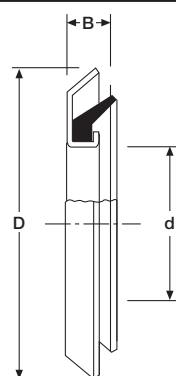
### Protezione della tenuta - Protezione dell'albero Seal protection - Shaft protection

| Tipo Type                                                                                        | Caratteristiche                                                                    | Characteristics                                                               | Tipo Type                                                                                          | Caratteristiche                                                                   | Characteristics                                                             |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <br><b>QA</b> | Protezione Media.<br>Possibilità di scomporre la tenuta per un montaggio separato. | Medium Protection.<br>Possibility of dividing the seal for separate assembly. | <br><b>QLF</b> | Protezione Alta.<br>Possibilità di scomporre la tenuta per un montaggio separato. | High protection.<br>Possibility of dividing the seal for separate assembly. |

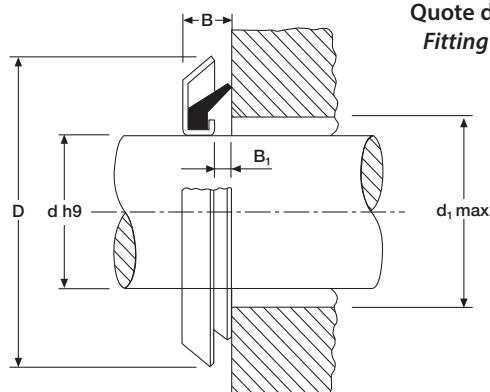
|                                                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Protezione Medio/Alta per applicazioni fino a 400 rpm. / Medium/High protection for application up to 400 rpm. |    |    |    |    |    |
|                                                                                                                | UA1                                                                                 | UA2                                                                                 | UA3                                                                                 | UA4                                                                                  | UA5                                                                                   |
|                                                                                                                |    |    |    |    |    |
|                                                                                                                | UA6                                                                                 | UA7                                                                                 | UA8                                                                                 | UA9                                                                                  | UA10                                                                                  |
|                                                                                                                |   |   |   |   |   |
|                                                                                                                | UA11                                                                                | UA12                                                                                | UA13                                                                                | UA14                                                                                 | UA15                                                                                  |
|                                                                                                                |  |  |  |  |  |
|                                                                                                                | UA16                                                                                | UA16 *                                                                              | UA16Y                                                                               | UA17                                                                                 | UA18                                                                                  |
|                                                                                                                |  |  |  |  |  |
|                                                                                                                | UA19                                                                                | UA19 *                                                                              | UA20                                                                                | UA21                                                                                 | UA22                                                                                  |
|                                                                                                                |  |  |  |  |  |
|                                                                                                                | UA23                                                                                | UA24                                                                                | UA25                                                                                | UA26                                                                                 | UA27                                                                                  |



|                                                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                      |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Protezione Medio/Alta per applicazioni fino a 400 rpm. / Medium/High protection for application up to 400 rpm. |    |    |    |    |   |
|                                                                                                                | UA28                                                                                | UA29                                                                                | UA30                                                                                | UA31                                                                                  | UA32                                                                                 |
|                                                                                                                |    |    |    |    |   |
|                                                                                                                | UA33                                                                                | UA34                                                                                | UA35                                                                                | UA36                                                                                  | UA37                                                                                 |
|                                                                                                                |   |   |   |   |  |
|                                                                                                                | UA38                                                                                | UA39                                                                                | UA40                                                                                | UA41                                                                                  | UA42                                                                                 |
|                                                                                                                |  |                                                                                     |                                                                                     |                                                                                       |                                                                                      |
|                                                                                                                | UAY                                                                                 |                                                                                     |                                                                                     |                                                                                       |                                                                                      |
|                                                                                                                |  |  |  |  |                                                                                      |
|                                                                                                                | UA01                                                                                | UA02                                                                                | UA03                                                                                | UA04                                                                                  |                                                                                      |
|                                                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                      |
|                                                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                      |



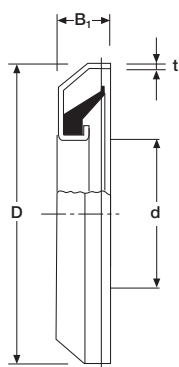
**Dimensioni anello libero**  
*Free seal dimensions*



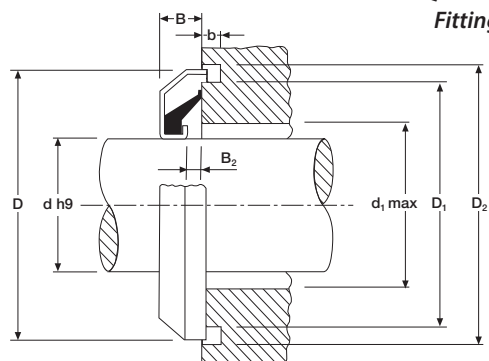
**Quote di montaggio**  
*Fitting dimensions*

**Dimensioni - Dimensions (mm)**

| d    | D   | B   | B <sub>1</sub> | d <sub>1</sub> |
|------|-----|-----|----------------|----------------|
| 10   | 24  | 3,5 | 1              | 15             |
| 12   | 26  | 3,5 | 1              | 17             |
| 15   | 30  | 4   | 1              | 21             |
| 17   | 32  | 4   | 1              | 23             |
| 20   | 35  | 4   | 1              | 26             |
| 25   | 40  | 4   | 1              | 31             |
| 25,4 | 45  | 4   | 1              | 32             |
| 28   | 43  | 4   | 1              | 34             |
| 30   | 47  | 4,5 | 1              | 37             |
| 35   | 52  | 4,5 | 1              | 42             |
| 38   | 55  | 4,5 | 1              | 45             |
| 40   | 57  | 4,5 | 1              | 47             |
| 41   | 57  | 4,5 | 1              | 48             |
| 45   | 62  | 4,5 | 1              | 52             |
| 48   | 65  | 4,5 | 1              | 55             |
| 50   | 70  | 5,5 | 1              | 58             |
| 54   | 76  | 5,5 | 1              | 62             |
| 55   | 75  | 5,5 | 1              | 63             |
| 58   | 78  | 5,5 | 1              | 66             |
| 60   | 80  | 5,5 | 1              | 68             |
| 65   | 85  | 5,5 | 1              | 73             |
| 68   | 88  | 5,5 | 1              | 76             |
| 70   | 90  | 5,5 | 1              | 78             |
| 72   | 92  | 5,5 | 1              | 80             |
| 75   | 95  | 5,5 | 1              | 83             |
| 78   | 98  | 5,5 | 1              | 86             |
| 80   | 100 | 5,5 | 1              | 88             |
| 85   | 105 | 5,5 | 1              | 93             |
| 90   | 110 | 5,5 | 1              | 98             |
| 95   | 115 | 5,5 | 1              | 103            |
| 100  | 120 | 5,5 | 1              | 108            |
| 105  | 125 | 5,5 | 1              | 113            |



**Dimensioni anello libero**  
*Free seal dimensions*



**Quote di montaggio**  
*Fitting dimensions*

**Dimensioni - Dimensions (mm)**

| d     | D      | B   | B <sub>1</sub> | B <sub>2</sub> | b | d <sub>1</sub> | D <sub>1</sub> | D <sub>2</sub> | t    |
|-------|--------|-----|----------------|----------------|---|----------------|----------------|----------------|------|
| 15    | 32     | 4   | 6              | 1              | 3 | 21             | 29             | 34             | 0,5  |
| 17    | 34     | 4   | 6              | 1              | 3 | 23             | 31             | 36             | 0,5  |
| 20    | 37     | 4   | 6              | 1              | 3 | 26             | 34             | 39             | 0,5  |
| 25    | 42     | 4   | 6              | 1              | 3 | 31             | 39             | 44             | 0,5  |
| 26    | 43     | 4   | 6              | 1              | 3 | 32             | 40             | 45             | 0,5  |
| 28    | 45     | 4,5 | 6,5            | 1              | 3 | 34             | 42             | 47             | 0,5  |
| 30    | 48     | 4,5 | 6,5            | 1              | 3 | 37             | 45             | 50             | 0,5  |
| 32    | 53     | 6,5 | 8,5            | 1              | 3 | 39             | 50             | 55             | 0,5  |
| 33,34 | 53,1   | 6,6 | 8,6            | 1              | 3 | 40,3           | 50             | 55             | 0,5  |
| 35    | 53     | 4,5 | 6,5            | 1              | 3 | 42             | 50             | 55             | 0,5  |
| 40    | 58     | 4,5 | 6,5            | 1              | 3 | 47             | 55             | 60             | 0,5  |
| 41,17 | 72,64  | 4,5 | 6,6            | 1              | 3 | 48,2           | 69             | 74,5           | 0,8  |
| 41,28 | 57,9   | 6,6 | 8,6            | 1              | 3 | 48,3           | 55             | 60             | 0,5  |
| 44,45 | 63     | 6,6 | 8,6            | 1              | 3 | 51,5           | 60             | 65             | 0,5  |
| 44,45 | 74     | 6,6 | 8,6            | 1              | 3 | 51,5           | 71,2           | 76,2           | 0,5  |
| 45    | 63     | 4,5 | 6,5            | 1              | 3 | 52             | 60             | 65             | 0,5  |
| 49,22 | 82,55  | 4,5 | 6,6            | 1              | 3 | 57             | 79,5           | 84,5           | 0,6  |
| 50    | 72     | 5,5 | 7,5            | 1              | 3 | 58             | 68,5           | 74             | 0,75 |
| 55    | 77     | 5,5 | 7,5            | 1              | 3 | 63             | 73,5           | 79             | 0,75 |
| 57,15 | 88,9   | 5,5 | 7,5            | 1              | 3 | 65,5           | 85,5           | 91             | 0,8  |
| 60    | 82     | 5,5 | 7,5            | 1              | 3 | 68             | 78,5           | 84             | 0,75 |
| 65    | 87     | 5,5 | 7,5            | 1              | 3 | 73             | 83,5           | 89             | 0,75 |
| 70    | 92     | 5,5 | 7,5            | 1              | 3 | 78             | 88,5           | 94             | 0,75 |
| 80    | 102    | 5,5 | 7,5            | 1              | 3 | 88             | 98,5           | 104            | 0,75 |
| 85    | 107    | 5,5 | 7,5            | 1              | 3 | 93             | 103,5          | 109            | 0,75 |
| 90    | 112    | 5,5 | 7,5            | 1              | 3 | 98             | 108,5          | 114            | 0,75 |
| 95    | 117    | 5,5 | 7,5            | 1              | 3 | 103            | 113,5          | 119            | 0,75 |
| 100   | 122    | 5,5 | 7,5            | 1              | 3 | 108            | 118,5          | 124            | 0,75 |
| 110   | 132,08 | 5,5 | 7,5            | 1              | 3 | 118            | 128,5          | 134            | 0,75 |

## Protezione con disco in poliuretano cellulare Protection by means of disc in cellular polyurethane

**OPRO**  
TAFM/TAFE



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TAFM         | 30,0                       | 42,0                | 14,0             |
| TAFE         | 38,1                       | 50,8                | 13,5             |
| TAFM         | 40,0                       | 55,0                | 10,0             |
| TAFE         | 40,0                       | 62,0                | 10,0             |
| TAFE         | 42,9                       | 66,7                | 15,1             |
| TAFM         | 45,0                       | 65,0                | 12,0             |
| TAFM         | 50,0                       | 75,0                | 12,0             |
| TAFM         | 55,0                       | 80,0                | 11,0             |
| TAFM         | 60,0                       | 80,0                | 12,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TAFM         | 65,0                       | 85,0                | 13/17,0          |
| TAFM         | 65,0                       | 92,0                | 14,0             |
| TAFE         | 68,0                       | 85,0                | 12,0             |
| TAFM         | 70,0                       | 92,0                | 15,0             |
| TAFM         | 75,0                       | 102,0               | 14,0             |
| TAFM         | 80,0                       | 110,0               | 16,0             |
| TAFM         | 85,0                       | 110,0               | 16,0             |
| TAFM         | 90,0                       | 110,0               | 16,0             |
| TAFM         | 90,0                       | 120,0               | 13,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TAFM         | 95,0                       | 125,0               | 16,0             |
| TAFM         | 100,0                      | 130,0               | 16,0             |
| TAFM         | 120,0                      | 150,0               | 15,0             |
| TAFM         | 140,0                      | 164,0               | 20/22,5          |
| TAFM         | 145,0                      | 170,0               | 16,0             |
| TAFM         | 170,0                      | 205,0               | 17,0             |
| TAFM         | 220,0                      | 250,0               | 20,0             |

## Protezione con barriera metallica Additional protection to the existing one

**OPRO**  
TCN



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TCN          | 15,9                       | 34,9                | 9,5              |
| TCN          | 20,0                       | 40,0                | 11,0             |
| TCN          | 20,0                       | 47,0                | 8,0              |
| TCN          | 22,0                       | 42,0                | 11,0             |
| TCN          | 25,0                       | 45,0                | 11,0             |
| TCN          | 25,4                       | 41,3                | 7,9              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TCN          | 30,0                       | 50,0                | 12,5             |
| TCN          | 35,0                       | 55,0                | 11,0             |
| TCN          | 38,1                       | 54,0                | 9,5              |
| TCN          | 40,0                       | 60,3                | 9,5              |
| TCN          | 40,0                       | 62,0                | 11,0             |
| TCN          | 49,2                       | 68,0                | 8,0              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TCNJ         | 54,0                       | 70,0                | 9,5              |
| TCN          | 68,0                       | 90,0                | 14,0             |
| TCN          | 80,0                       | 105,0               | 8,0              |
| TCN          | 80,0                       | 105,0               | 13,0             |
| TCN          | 101,6                      | 127,0               | 15,9             |

## Doppio labbro di tenuta con possibilità di ingrassaggio tra i due labbri Double lip with possibility of including grease between lips

**OPRO**  
DAPU



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| DAPU         | 35,0                       | 52,0                | 16,0             |
| DAPU         | 45,0                       | 72,0                | 14,5             |
| DAPU         | 55,0                       | 72,0                | 16,5             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| DAPU         | 55,0                       | 82,0                | 16,5             |
| DAPU         | 58,0                       | 80,0                | 16,5             |
| DAPU         | 60,0                       | 80,0                | 15,0             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| DAPU         | 60,0                       | 80,0                | 16,5             |
| DAPU         | 70,0                       | 90,0                | 16,5             |

## Protezione leggera mediante barriera di grasso Light protection with grease between lips

**OPRO**  
TCA



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TCA          | 10,00                      | 20                  | 5,5/7            |
| TCAT         | 10,00                      | 26                  | 8/8,5            |
| TCAT         | 10,00                      | 27                  | 8                |
| TCAT         | 10,00                      | 27                  | 8/8,5            |
| TCAT         | 12,00                      | 27                  | 10/10,5          |
| TCAT         | 14,00                      | 27/28               | 9/10,5           |
| TCA          | 14,00                      | 28                  | 7/8,5            |
| TCA          | 14,00                      | 30                  | 7,5/8,5          |
| TCA          | 14,00                      | 32                  | 7,5/8,5          |
| TCA          | 14,80                      | 30                  | 7,5/8,5          |
| TCA          | 14,80                      | 32                  | 7,5/8,5          |
| TCA          | 14,80                      | 35                  | 7,5/9            |
| TCA          | 15,00                      | 30                  | 7,5/8,5          |
| TCA          | 15,00                      | 32                  | 7,5/9            |
| TCAT         | 15,88                      | 28,58               | 9,5              |
| TCA          | 16,00                      | 30                  | 7,5/8,5          |
| TCA          | 17,00                      | 30                  | 7/8              |
| TCA          | 18,00                      | 32                  | 8                |
| TCAY         | 20,00                      | 35                  | 8                |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TCA          | 20,00                      | 35                  | 9/10             |
| TCA          | 24,00                      | 40                  | 8                |
| HTCAR        | 25,00                      | 35                  | 6                |
| TCA          | 25,00                      | 40                  | 9/10             |
| TCAY         | 25,00                      | 52                  | 8/10,5           |
| TCAY         | 25,00                      | 52                  | 8/10,5           |
| TCAY         | 25,00                      | 52                  | 8/10,5           |
| TCAY         | 25,00                      | 52                  | 8/10,5           |
| TCA          | 25,40                      | 62                  | 9,5              |
| TCAY         | 27,70                      | 46                  | 13/14            |
| HTCAR        | 29,85                      | 47                  | 11,3             |
| TCA          | 30,00                      | 52                  | 11/13            |
| TCA          | 30,00                      | 52/60               | 11/15            |
| TCAY         | 30,00                      | 52                  | 11/12,5          |
| TCAT         | 33,34                      | 49,21               | 9,1/9,9          |
| TCA          | 34,00                      | 62                  | 14               |
| HTCA         | 34,00                      | 63                  | 8,5              |
| TCAY         | 35,00                      | 48                  | 13/14,5          |
| TCAY         | 35,00                      | 62                  | 11/12,5          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TCA          | 35,00                      | 65/76               | 10/16            |
| TCA          | 35,00                      | 75                  | 9/11             |
| HTCA         | 38,00                      | 60/66               | 11/14,8          |
| TCA          | 39,00                      | 55                  | 8                |
| HTCAR        | 39,70                      | 62,64               | 9,5/11,6         |
| HTCAL        | 40,00                      | 52                  | 6/7              |
| HTCAR        | 40,00                      | 58                  | 11,3             |
| HTCAI        | 40,00                      | 63                  | 8,5              |
| HTCAL        | 50,00                      | 70                  | 11               |
| TCAT         | 50,80                      | 65,09               | 8,4/9            |
| TCA          | 54,00                      | 75,5                | 12/18            |
| TCA          | 54,00                      | 75,5                | 12/18            |
| HTCAR        | 55,00                      | 75                  | 11               |
| TCA          | 75,00                      | 105                 | 15               |
| TCA          | 100,00                     | 135                 | 15               |
| TCAPU        | 130,00                     | 160                 | 20               |
| TCAPU        | 140,00                     | 170                 | 20               |
| TCA          | 146,00                     | 171,45              | 13               |





| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC7          | 11                         | 17                  | 4                |
| TC7          | 12                         | 20                  | 5                |
| TC7          | 12                         | 22                  | 5                |
| TC7          | 15                         | 26                  | 5                |
| TC7          | 15                         | 26                  | 5                |
| TC7          | 17                         | 28                  | 5                |
| TC7          | 18                         | 32                  | 5                |
| TC7          | 18                         | 32,1                | 5                |
| TC7WY        | 20,5                       | 40                  | 7                |
| TC7          | 24                         | 38                  | 8                |
| TC7WY        | 24,5                       | 44                  | 7                |
| TC9          | 25                         | 62                  | 10/13            |
| TC7X         | 28                         | 58,5                | 10,5             |
| TC9          | 28                         | 44                  | 8/11             |
| TC9Y         | 28                         | 52                  | 9/11,5           |
| HTC7WR       | 29,85                      | 47                  | 10               |
| TC7X         | 30                         | 61,2                | 9                |
| TC7Y         | 30                         | 62                  | 8                |
| TC7          | 30,96                      | 47,63               | 9,5              |
| TC7Y         | 32                         | 48                  | 9                |
| TC7Y         | 33                         | 54                  | 9                |
| TC7Y         | 33                         | 56                  | 8                |
| HTC7L        | 33                         | 56                  | 8,8              |
| TC7Y         | 33                         | 59                  | 11               |
| TC9          | 33                         | 52                  | 7/12             |
| TC9          | 33                         | 52                  | 9/13,5           |
| HTB9Y        | 33,34                      | 57,94               | 9,1/23           |
| HTC7R        | 34                         | 54                  | 8                |
| HTC7I        | 34                         | 54                  | 9                |
| TC7          | 34                         | 54                  | 9                |
| TC7Y         | 34                         | 55                  | 9                |
| HTC7         | 34                         | 58                  | 9,5              |
| HTC7I        | 34                         | 63                  | 9                |
| TC7          | 34                         | 63                  | 9                |
| TC9          | 34                         | 52                  | 9/14             |
| HTB9YL       | 34,93                      | 57,1/63,5           | 9,5/22           |
| HTC7I        | 35                         | 54                  | 8                |
| HTC7         | 35                         | 54                  | 9                |
| TC7Y         | 35                         | 54                  | 10               |
| HTC7I        | 35                         | 55                  | 9                |
| TC7Y         | 35                         | 55                  | 11               |
| HTC7I        | 35                         | 56                  | 7,5              |
| HTC7L        | 35                         | 56                  | 8                |
| HTC7I        | 35                         | 56                  | 9                |
| HTC7I        | 35                         | 56                  | 9                |
| HTC7I        | 35                         | 56                  | 9                |
| HTC7I        | 35                         | 56                  | 9                |
| HTC7I        | 35                         | 56                  | 9                |
| TC7          | 35                         | 56                  | 9                |
| TC7Y         | 35                         | 56                  | 9                |
| TC7Y         | 35                         | 56                  | 9                |
| HTC7I        | 35                         | 56                  | 10               |
| HTC7L        | 35                         | 57                  | 9                |
| HTC7R        | 35                         | 58                  | 8                |
| HTC7I        | 35                         | 58                  | 10               |
| TC7          | 35                         | 61                  | 9                |
| HTC7R        | 35                         | 62                  | 8                |
| TC7Y         | 35                         | 62                  | 10               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| HTC7         | 35                         | 63                  | 9                |
| HTC7L        | 35                         | 63                  | 10               |
| TB7          | 35                         | 63                  | 10               |
| HTB7R        | 35                         | 65                  | 12               |
| HTC7R        | 35                         | 67                  | 12               |
| HTC7L        | 35                         | 68                  | 9                |
| HTC7L        | 35                         | 68                  | 9                |
| HTC7R        | 35                         | 68                  | 9                |
| TC7Y         | 35                         | 68                  | 9                |
| HTC7R        | 35                         | 69                  | 8                |
| TC7Y         | 35                         | 75                  | 9                |
| HTC7I        | 35                         | 76                  | 9                |
| HTC9W        | 35                         | 65                  | 10/16            |
| TC7Y         | 37                         | 61                  | 8                |
| HTC7L        | 37                         | 64                  | 11               |
| TC9I         | 37                         | 56                  | 9/12,5           |
| TC9WY        | 37,21                      | 60,25               | 11/26,5          |
| TC7          | 38                         | 50                  | 8                |
| HTC7L        | 38                         | 54                  | 8                |
| HTC7R        | 38                         | 54                  | 9                |
| TC7Y         | 38                         | 55                  | 8                |
| HTC7L        | 38                         | 56                  | 9                |
| HTC7R        | 38                         | 58                  | 10               |
| TC7Y         | 38                         | 60                  | 8                |
| TB7Y         | 38                         | 62/67,5             | 5,5              |
| HTC7L        | 38                         | 63                  | 9                |
| HTB7I        | 38                         | 74                  | 11               |
| TB7          | 38                         | 74                  | 11               |
| HTC9YL       | 38                         | 54                  | 12,5/27          |
| HTC9I        | 38                         | 62                  | 9/11,5           |
| HTB9R        | 38                         | 63                  | 10/25            |
| HTB9R        | 38                         | 65                  | 12/19            |
| HTB7L        | 38,1                       | 56                  | 10               |
| TB7R         | 39                         | 52                  | 6                |
| TC7Y         | 39                         | 57                  | 11               |
| TC7Y         | 39                         | 57                  | 15,5             |
| TC7Y         | 39                         | 59                  | 11               |
| HTC7YR       | 39                         | 66                  | 8                |
| HTC7R        | 39                         | 68                  | 9                |
| HTC7R        | 39                         | 68                  | 16               |
| TB7R         | 39                         | 72,5                | 8                |
| TB9YSF       | 39                         | 52                  | 6/11,5           |
| HTC7I        | 40                         | 56                  | 8                |
| HTC7L        | 40                         | 56                  | 8                |
| HTC7R        | 40                         | 56                  | 8                |
| TC7          | 40                         | 56                  | 8                |
| TC7I         | 40                         | 56                  | 9                |
| TC7          | 40                         | 58                  | 7                |
| HTC7R        | 40                         | 58                  | 8                |
| HTC7L        | 40                         | 58                  | 9                |
| TC7          | 40                         | 58                  | 9                |
| HTC7I        | 40                         | 58                  | 9,5              |
| TC7Y         | 40                         | 59                  | 11               |
| HTC7YL       | 40                         | 60                  | 8                |
| HTC7R        | 40                         | 62                  | 8                |
| HTC7R        | 40                         | 63                  | 8                |
| HTC7R        | 40                         | 64                  | 9                |
| TB7          | 40                         | 64                  | 12               |
| HTC7R        | 40                         | 65                  | 11,5             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| HTC7R        | 40                         | 68                  | 9                |
| HTC7R        | 40                         | 70                  | 12               |
| TC7Y         | 40                         | 72                  | 10               |
| HTB7L        | 40                         | 74                  | 9,5              |
| TB7Y         | 40                         | 74                  | 10               |
| HTC7YR       | 40                         | 75                  | 12               |
| TC9          | 40                         | 52                  | 7/10,5           |
| HTC9I        | 40                         | 56                  | 9/12,5           |
| TC9Y         | 40                         | 72                  | 11/18,5          |
| HTC9YR       | 40                         | 75                  | 12/17,5          |
| TB7Y         | 41                         | 55                  | 7                |
| HTC7R        | 41                         | 59                  | 10               |
| HTC7L        | 41                         | 61                  | 8                |
| HTC7L        | 41                         | 63                  | 9                |
| TC7Y         | 41                         | 67                  | 10,5             |
| TC7          | 41                         | 69                  | 8,5              |
| HTB7L        | 41                         | 74                  | 9                |
| HTC7I        | 41                         | 74                  | 11               |
| TC7Y         | 41                         | 76                  | 10,5             |
| HTC9         | 41                         | 61                  | 9/13,5           |
| TC95         | 41,28                      | 65,2                | 9,5/13,2         |
| TC7          | 42                         | 59                  | 6                |
| HTC7I        | 42                         | 63                  | 9                |
| HTB7I        | 42                         | 70                  | 9                |
| HTB95R       | 42                         | 65                  | 9,5/13,5         |
| TB95         | 42,86                      | 63,5/65,1           | 9,5/12,7         |
| HTB95        | 42,86                      | 65,1                | 9,5/13,5         |
| HTC7R        | 43                         | 63                  | 12               |
| TB7Y         | 43                         | 70                  | 9                |
| TC9WY        | 43                         | 63,2                | 11/26,5          |
| HTC9I        | 43                         | 66                  | 10,5/17,5        |
| TC9Y         | 43                         | 92                  | 12,5/19,5        |
| TC7          | 44                         | 60                  | 7                |
| TC7          | 44                         | 60                  | 9                |
| TC7          | 44                         | 62                  | 7                |
| TC7          | 44                         | 62                  | 7,8              |
| TB7I         | 44                         | 62                  | 8                |
| TB7Y         | 44                         | 63                  | 13               |
| TB7          | 44                         | 72                  | 7                |
| HTC7R        | 44                         | 74                  | 11               |
| HTC7I        | 44                         | 80                  | 7                |
| TC9          | 44                         | 63                  | 8/14             |
| TB7R         | 45                         | 60                  | 7                |
| HTC7L        | 45                         | 61                  | 8                |
| TC7Y         | 45                         | 62                  | 9                |
| HTC7R        | 45                         | 64                  | 9                |
| HTC7R        | 45                         | 68                  | 12,5             |
| HTB7YR       | 45                         | 72                  | 12               |
| TC7Y         | 45                         | 76                  | 10,5             |
| HTB7R        | 45                         | 78                  | 11               |
| HTC7L        | 45                         | 80                  | 10               |
| TC9YWL       | 45                         | 65                  | 9/21             |
| TC9          | 45                         | 65                  | 11/17            |
| TC9Y         | 45                         | 90                  | 9,5/17           |
| TC7Y         | 46                         | 69,4                | 10               |
| TC7          | 47                         | 61,8                | 6                |
| TB7Y         | 47                         | 66                  | 6                |
| HTB7L        | 47                         | 69                  | 10               |
| HTC7         | 47                         | 69                  | 10               |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| HTB7YI       | 47                         | 72                  | 10               |
| HTB7R        | 47                         | 80                  | 10               |
| HTC7         | 47                         | 80                  | 10               |
| HTB7R        | 47,63                      | 69,85               | 11,5             |
| TB9SI        | 47,63                      | 73,03               | 9,5/12,5         |
| HTC9WI       | 47,9                       | 69,85               | 11,9/31          |
| HTC9WI       | 47,9                       | 69,85               | 13/22            |
| TC7Y         | 48                         | 62                  | 8                |
| TC7Y         | 48                         | 65                  | 8                |
| TC7Y         | 48                         | 65                  | 10               |
| TC7Y         | 48                         | 74                  | 10               |
| TB9Y         | 48                         | 70                  | 13/19            |
| TC9          | 48                         | 84                  | 9/13,6           |
| TB7I         | 49                         | 62                  | 8                |
| TC9          | 49                         | 75                  | 11/12            |
| TC9          | 49                         | 80,96               | 9,5/12,7         |
| TC9          | 49                         | 85                  | 8/9,5            |
| TB7Y         | 50                         | 65                  | 7                |
| TC7W         | 50                         | 65                  | 10               |
| TC7Y         | 50                         | 66,5                | 13               |
| TB7I         | 50                         | 68                  | 7                |
| HTC7L        | 50                         | 68                  | 9                |
| TC7W         | 50                         | 70                  | 6                |
| HTC7R        | 50                         | 70                  | 10               |
| HTC7KR       | 50                         | 72                  | 9                |
| TC7Y         | 50                         | 72,5                | 12               |
| TB7Y         | 50                         | 75                  | 12               |
| TB7Y         | 50                         | 77,5                | 9                |
| TC7I         | 50                         | 80                  | 11               |
| TC7I         | 50                         | 80                  | 16,5             |
| TB7          | 50                         | 82                  | 8                |
| TC9          | 50                         | 68                  | 11,5/16          |
| TC9          | 50                         | 72                  | 8/11             |
| HTB7R        | 50,8                       | 69,85               | 11,9             |
| TB7R         | 51                         | 66                  | 7,5              |
| TB7R         | 51                         | 73                  | 8                |
| TB7R         | 52                         | 66                  | 7,5              |
| TB7R         | 52                         | 66                  | 8                |
| TB7R         | 52                         | 68                  | 7,5              |
| TB7R         | 52                         | 68                  | 8                |
| HTB7L        | 52                         | 70                  | 9                |
| HTC7R        | 52                         | 70,5                | 8,5              |
| TB7          | 52                         | 72                  | 8                |
| TB7Y         | 52                         | 75                  | 7,5              |
| HTC7WR       | 52                         | 85                  | 7                |
| TC9Y         | 52                         | 75/85               | 14               |
| TB9SI        | 53,98                      | 80                  | 11,1/14,3        |
| TB7R         | 54                         | 66                  | 7,5              |
| TC7          | 54                         | 70                  | 6                |
| TB7          | 54                         | 76                  | 8                |
| TB7          | 54                         | 82                  | 8                |
| TC9Y         | 54                         | 75,5                | 12/18            |
| TC9Y         | 54                         | 75,5                | 12/18            |
| TC7Y         | 55                         | 70                  | 6                |
| TB7Y         | 55                         | 73                  | 8                |
| TB7R         | 56                         | 72                  | 11               |
| TC7          | 56                         | 72,3                | 8                |
| TB77         | 56                         | 73/78               | 7,5              |
| TB77         | 56                         | 73/78               | 7,5              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TB77         | 56                         | 73/88,3             | 7,5              |
| TB7R         | 56                         | 73                  | 8                |
| TB7R         | 56                         | 75                  | 8                |
| TB77         | 56                         | 75                  | 8,5              |
| TB77         | 56                         | 76/81,5             | 6                |
| TB7          | 56                         | 78                  | 7,5              |
| TC7          | 56                         | 79,35               | 14               |
| TB7R         | 57                         | 75                  | 7,5              |
| TB7          | 57                         | 81                  | 8                |
| TC7Y         | 58                         | 75                  | 7,5              |
| HTC7R        | 58                         | 75                  | 9                |
| TB7          | 58                         | 76                  | 6,6              |
| TC7Y         | 58                         | 76                  | 7,8              |
| HTC7L        | 58                         | 78                  | 10               |
| HTC7I        | 58                         | 102                 | 11               |
| TC7          | 58                         | 103                 | 12               |
| HTB9R        | 58                         | 103                 | 11/19            |
| TB7          | 59                         | 75                  | 9                |
| TB7          | 59                         | 75                  | 9                |
| TC9Y         | 59                         | 100                 | 10/17            |
| TB7          | 60                         | 72                  | 7                |
| HTB7L        | 60                         | 75                  | 9                |
| TC7          | 60                         | 83                  | 14               |
| TB7          | 60                         | 86                  | 7                |
| HTB7L        | 60                         | 88                  | 9,5              |
| HTB7         | 60                         | 103                 | 12               |
| TC7Y         | 60                         | 114                 | 12,5             |
| TC9Y         | 60                         | 90                  | 10/14,5          |
| TB7          | 61                         | 76                  | 7                |
| TB7Y         | 61                         | 78                  | 7                |
| TC7AY        | 62,01                      | 80,01               | 8                |
| HTB7L        | 63                         | 78                  | 9                |
| TB7Y         | 63                         | 90                  | 7                |
| TC7          | 63,4                       | 80,01               | 8                |
| TB77         | 63,5                       | 102,49              | 16,3             |
| HTB7L        | 65                         | 80                  | 10               |
| HTC7R        | 65                         | 88                  | 12               |
| TC7          | 65                         | 90                  | 9                |
| HTB7L        | 65                         | 95                  | 14               |
| HTB7RY       | 65                         | 105                 | 9                |
| TB7Y         | 66                         | 82                  | 8                |
| TB7Y         | 66                         | 88                  | 8,5              |
| TC9          | 66                         | 90                  | 15               |
| TC9Y         | 67                         | 84                  | 9                |
| TC9Y         | 67                         | 84                  | 9/12,5           |
| TC9Y         | 67                         | 84                  | 9/12,5           |
| HTB7L        | 68                         | 90                  | 10               |
| HTB7R        | 68                         | 124                 | 11,5             |
| TC7AY        | 69,85                      | 88,9                | 9,5              |
| TC7Y         | 69,85                      | 88,9                | 9,5              |
| TC7          | 70                         | 94,4                | 11,8             |
| HTC7Y        | 70                         | 94,5                | 10               |
| TC7          | 70                         | 94,7                | 11,8             |
| HTC7Y        | 70                         | 95                  | 12               |
| HTC7R        | 70                         | 95                  | 13               |
| HTB7L        | 70                         | 95                  | 14               |
| TC7          | 70                         | 95,1                | 12               |
| TB9Y         | 70                         | 135                 | 14/18            |
| TB7I         | 72                         | 85,5                | 8                |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| TC7          | 75                         | 95                  | 10               |
| TC7          | 75                         | 97                  | 9                |
| HTB7YR       | 75                         | 100                 | 10               |
| HTB7L        | 75                         | 100                 | 13               |
| HTB7R        | 75                         | 100                 | 13               |
| HTC7R        | 75                         | 100                 | 13               |
| TB7Y         | 75                         | 121                 | 13               |
| HTC7Y        | 76,2                       | 101,68              | 11               |
| HTC7Y        | 76,2                       | 101,68              | 11               |
| HTB7L        | 78                         | 100                 | 14               |
| TC7          | 80                         | 105                 | 9,5              |
| HTC7R        | 80                         | 105                 | 12               |
| TB7R         | 80                         | 105                 | 13               |
| HTB7R        | 80                         | 127                 | 16               |
| TC7Y         | 80                         | 135                 | 12               |
| TC9          | 80                         | 100                 | 10/14            |
| HTB7R        | 86                         | 127                 | 16               |
| HTC7L        | 90                         | 110                 | 9                |
| HTB7R        | 90                         | 115                 | 13               |
| HTC7WL       | 90                         | 120                 | 11               |
| HTB7         | 90                         | 125                 | 10               |
| HTC7WR       | 94                         | 175                 | 12,5             |
| TC7WY        | 95                         | 122,99              | 22               |
| HTB7RY       | 95                         | 156                 | 9                |
| TC7AY        | 95,26                      | 114,35              | 12               |
| HTC9R        | 96                         | 124                 | 14/20,5          |
| TC7Y         | 97,18                      | 114,35              | 9,5              |
| TC9Y         | 97,18                      | 114,35              | 9,5/14,6         |
| HTC7L        | 100                        | 120                 | 13               |
| HTC7YR       | 105                        | 135                 | 14               |
| TC7Y         | 110                        | 130                 | 7                |
| TC7WAY       | 110                        | 140                 | 12               |
| TC7WI        | 110                        | 140                 | 12               |
| TC9          | 110                        | 140                 | 9/13             |
| TC7WY        | 114                        | 152,63              | 23,7             |
| TC7WY        | 114                        | 158,85              | 30,6             |
| HTC7L        | 116                        | 146                 | 12               |
| TC7WY        | 120                        | 146,08              | 18,5             |
| HTC9L        | 120                        | 153                 | 15/18            |
| HTC7WL       | 120,65                     | 165,35              | 9,4              |
| HTC7WL       | 120,65                     | 165,35              | 11,4             |
| HTC7L        | 122                        | 150                 | 12               |
| TC7WY        | 124                        | 152,43              | 22               |
| HTC7L        | 125                        | 150                 | 12               |
| HTC7L        | 125                        | 155                 | 14               |
| TC7Y         | 130                        | 158                 | 8,5              |
| TC9Y         | 130                        | 150                 | 15/22            |
| HTC7L        | 135                        | 165                 | 14               |
| TC7          | 145                        | 170                 | 12               |
| TC7WY        | 147                        | 170                 | 13,8             |
| TC9          | 155                        | 167                 | 8/11,5           |
| TC9Y         | 160                        | 190                 | 19/21,6          |
| TC7          | 408,9                      | 428,9               | 19,05            |
| TC7          | 503,24                     | 528,62              | 19,05            |

## Protezione media Medium protection

SKUDO<sup>®</sup>  
QA



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| QA           | 25,0                       | 47,0                | 11/15,0          |
| QA           | 25,0                       | 47/53,0             | 12,0             |
| QA           | 25,4                       | 38,07               | 6,4              |
| QA           | 30,0                       | 52,0                | 11,0             |
| QA           | 30,0                       | 52,0                | 14,0             |
| QA           | 30,0                       | 55,0                | 12,0             |
| QA           | 30,0                       | 62,0                | 16/18,0          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| QA1          | 31,75                      | 65,1/76,7           | 7,1/10,0         |
| QA1          | 40,0                       | 55,0                | 6,0              |
| QA2          | 40,0                       | 55,0                | 6,0              |
| QA1          | 41,28                      | 61,6/65,46          | 9/11,2           |
| QA1          | 44,42                      | 65,46/68,5          | 9/11,3           |
| QA           | 52,0                       | 85,0                | 16/19,0          |
| QA1          | 57,12                      | 77,4/81,3           | 9/11,2           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| QA1          | 59,53                      | 85,09               | 9,5/16,2         |
| QAT          | 111,1                      | 133,6               | 13,40            |
| QAT          | 114,3                      | 139,7               | 12,7/19,05       |
| QAT          | 118,0                      | 146,05              | 11,9/13,5        |
| QAT2         | 123,03                     | 127/146,0           | 9,5/19,05        |
| QAW          | 165,0                      | 190,0               | 17,0             |

## Protezione alta High protection

SKUDO<sup>®</sup>  
QLF



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| QLF          | 25,0                       | 52/58,0             | 12,00            |
| QLF          | 25,0                       | 52/60,0             | 18,00            |
| QLF          | 30,0                       | 55/62,0             | 11,8/18          |
| QLF          | 30,0                       | 55/62,0             | 19,00            |
| QLF          | 30,0                       | 62                  | 12,5/21          |
| QLF          | 30,0                       | 62/70,0             | 12,5/18          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| QLF          | 30,0                       | 62/72,0             | 12,5/22,5        |
| QLF          | 30,0                       | 62/70,0             | 20,20            |
| QLF          | 30,0                       | 72/81,0             | 11/22,5          |
| QLF          | 35,0                       | 60/66               | 13/19,0          |
| QLF          | 40,0                       | 70/78,0             | 11/20,0          |
| QLF          | 44,45                      | 80,96               | 9,5/12,7         |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| QLF          | 45,0                       | 75                  | 11/14,0          |
| QLF          | 45,0                       | 75/85               | 14/17,0          |
| QLF          | 45,0                       | 85                  | 8/11,0           |
| QLF          | 82,5                       | 142,9               | 11/12,0          |
| QLF          | 82,5                       | 142,9               | 12,0             |
| QLF          | 155,0                      | 214                 | 15,0             |

## Protezione medio/alta Medium/high protection

SKUDO<sup>®</sup>  
UA



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| UA19         | 12                         | 32/40               | 16,5             |
| UA15         | 16                         | 40                  | 8                |
| UA19         | 16,5                       | 36,5/44,5           | 15               |
| UA15         | 20                         | 44                  | 8                |
| UA16         | 25                         | 52                  | 11/12            |
| UA16         | 25                         | 62                  | 11               |
| UA19         | 25,4                       | 44,45/50            | 15,5/16,5        |
| UA19         | 30                         | 50/58               | 18               |
| UA27         | 31,5                       | 75                  | 12/24            |
| UA26         | 31,75                      | 61                  | 10/12            |
| UA26         | 31,75                      | 61                  | 11/13            |
| UA16         | 35                         | 60                  | 13/14,5          |
| UA16         | 35                         | 72                  | 14,5/17          |
| UA25         | 40                         | 66,6                | 15/31            |
| UA26         | 40                         | 69                  | 12/15            |
| UA26         | 40                         | 69                  | 13/15            |
| UA40         | 40                         | 70/78               | 11/20,5          |
| UA27         | 40                         | 75                  | 13,5/20          |
| UA26         | 41                         | 61                  | 13/16            |
| UA16         | 45                         | 70                  | 14,5/17          |
| UA20         | 46                         | 73/79               | 11,5/14,5        |
| UA31         | 46,04                      | 73/80,5             | 10,4/17,5        |
| UA16         | 48                         | 75                  | 14/17            |
| UA32         | 50                         | 68                  | 7,5/19           |
| UA19         | 50                         | 70/80               | 15               |
| UA16         | 56                         | 80                  | 13/14,5          |
| UA19         | 57,15                      | 76,2/85             | 19/20            |
| UA12         | 57,15                      | 85,65               | 12,07            |
| UA14         | 57,15                      | 88,9                | 19,05            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| UA40         | 62                         | 90                  | 15/16            |
| UA16         | 65                         | 90                  | 13/14,5          |
| UA16         | 65                         | 100                 | 13/14,5          |
| UA6          | 69,85                      | 95,94               | 19,4             |
| UA02         | 69,85                      | 96                  | 19,4             |
| UA22         | 72                         | 100/107,5           | 11/16            |
| UA20         | 73                         | 100/106             | 10/13            |
| UA20         | 73,03                      | 98,43/108           | 17,96            |
| UA37         | 73,03                      | 113,1               | 21,4/30,2        |
| UA22         | 75,1                       | 98,4/106            | 19,7             |
| UAY          | 76,2                       | 88,9                | 10,3             |
| UA6          | 79,38                      | 114,3               | 15,4             |
| UA6          | 82,55                      | 114,3               | 15,4             |
| UA16         | 85                         | 110                 | 13/14,5          |
| UA21         | 87,31                      | 120,7               | 15,8/24,7        |
| UA6          | 87,31                      | 120,78              | 17,8             |
| UA15         | 88,9                       | 122,99              | 22,94            |
| UA02         | 88,9                       | 122,99              | 23               |
| UA3          | 88,9                       | 122,99              | 23,5             |
| UA03         | 90                         | 130                 | 17               |
| UA20         | 93                         | 120,2/130           | 10/13            |
| UA02         | 98,42                      | 139,7               | 24,2             |
| UA3          | 98,43                      | 144,53              | 22,2             |
| UA3          | 100                        | 139,73              | 22,2             |
| UA20         | 103                        | 130,2/140           | 10/13            |
| UA24         | 104,77                     | 136,5/152,5         | 11,2/15,5        |
| UA6          | 104,78                     | 136,53              | 15,4             |
| UA4          | 107,95                     | 152,53              | 17,3             |
| UA15         | 107,95                     | 152,63              | 24,66            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| UA3          | 107,95                     | 158,75              | 23/34,93         |
| UA15         | 107,95                     | 158,85              | 31,62            |
| UA02         | 107,95                     | 158,85              | 31,75            |
| UA03         | 110                        | 140                 | 17               |
| UA15         | 114,3                      | 146,08              | 19,48            |
| UA02         | 114,3                      | 146,08              | 25,81            |
| UA3          | 114,3                      | 152,4               | 12,4/25          |
| UA23         | 117,35                     | 152,4               | 16,3/17,5        |
| UA3          | 117,48                     | 152,37              | 25,4             |
| UA02         | 117,48                     | 152,4               | 27               |
| UA15         | 117,48                     | 152,43              | 23,16            |
| UA37         | 117,53                     | 152,4/162,5         | 20,5             |
| UA16         | 120                        | 150                 | 15,5/14          |
| UA6          | 121,03                     | 158,77              | 15,4             |
| UA02         | 121,03                     | 160,3               | 29               |
| UA3          | 121,03                     | 160,3               | 30,1             |
| UA16         | 121,8                      | 150                 | 12/13            |
| UA02         | 123,83                     | 152,43              | 22,23            |
| UA16         | 130                        | 160                 | 14,5/16          |
| UA15         | 140                        | 170                 | 15               |
| UA3          | 142,88                     | 182,52              | 10,9/23          |
| UA16         | 145                        | 175                 | 15,5/14,5        |
| UA03         | 145                        | 175                 | 17               |
| UA16         | 150                        | 180                 | 14,5/16          |
| UA13         | 158                        | 188                 | 14,5/18          |
| UA30         | 170                        | 210                 | 30               |
| UA03         | 178                        | 205                 | 17               |
| UA30         | 210                        | 250                 | 30               |



**Anelli di tenuta speciali**  
***Special shaft seals***



**Tabelle dimensionali**  
***Dimensional tables***



### ARMATURA E LABBRO DI TENUTA *METAL CASE AND SEAL LIP*

| QUALITÀ ISO/NS. RIF.<br>QUALITY ISO/OUR REF. | POLIMERO<br>POLIMER                                                | CARATTERISTICHE<br>CHARACTERISTICS                  |
|----------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------|
| <b>NBR/NBR</b>                               | BUTADIENE ACRYLONITRILE<br>BUTADIENE ACRYLONITRILE                 | Durezza 70 ± 5 Shore A.<br>Hardness 70 ± 5 Shore A. |
| <b>HNBR/HNBR</b>                             | ACRILONITRILBUTADIENE IDROGENATO<br>HYDROGENATED NITRILE-BUTADIENE | Durezza 75 ± 5 Shore A.<br>Hardness 75 ± 5 Shore A. |
| <b>FPM/VI</b>                                | POLIMERO FLUORURATO<br>FLUORINATED RUBBER                          | Durezza 75 ± 5 Shore A.<br>Hardness 75 ± 5 Shore A. |
| <b>MVQ/SI</b>                                | SILICONE<br>SILICONE                                               | Durezza 80 ± 5 Shore A.<br>Hardness 80 ± 5 Shore A. |
| <b>ACM/PA</b>                                | POLIACRILICO<br>POLYACRYLATE                                       | Durezza 75 ± 5 Shore A.<br>Hardness 75 ± 5 Shore A. |

### ANELLO METALLICO DI SOSTEGNO *METAL CASE*

| ESECUZIONI NORMALI<br>STANDARD TYPES       | ESECUZIONI SPECIALI<br>SPECIAL TYPES            |
|--------------------------------------------|-------------------------------------------------|
| <b>ACCIAIO DIN 1624<br/>STEEL DIN 1624</b> | <b>ACCIAIO INOSSIDABILE<br/>STAINLESS STEEL</b> |

### MOLLA ELICOIDALE *GARTER SPRING*

| ESECUZIONI NORMALI<br>STANDARD TYPES      | ESECUZIONI SPECIALI<br>SPECIAL TYPES            |
|-------------------------------------------|-------------------------------------------------|
| <b>ACCIAIO PER MOLLE<br/>SPRING STEEL</b> | <b>ACCIAIO INOSSIDABILE<br/>STAINLESS STEEL</b> |

### ESECUZIONI AGGIUNTIVE *COMPLEMENTARY EXECUTIONS*

|            |                                       |                                          |
|------------|---------------------------------------|------------------------------------------|
| <b>W</b>   | ONDULAZIONE SU DIAMETRO ESTERNO GOMMA | <i>WAVES ON RUBBER OUTER DIAMETER</i>    |
| <b>ND</b>  | DIAMETRO ESTERNO METALLO CALIBRATO    | <i>CALIBRATED METAL OUTER DIAMETER</i>   |
| <b>GD</b>  | DIAMETRO ESTERNO METALLO RETTIFICATO  | <i>GROUNDING METAL OUTER DIAMETER</i>    |
| <b>PD</b>  | DIAMETRO ESTERNO METALLO VERNICIATO   | <i>COLORING METAL OUTER DIAMETER</i>     |
| <b>I</b>   | LABBRO CON RIGATURA BIDIREZIONALE     | <i>BIDIRECTIONAL HELIX LIP</i>           |
| <b>R</b>   | LABBRO CON RIGATURA DESTRA            | <i>RIGHT HAND HELIX LIP</i>              |
| <b>L</b>   | LABBRO CON RIGATURA SINISTRA          | <i>LEFT HAND HELIX LIP</i>               |
| <b>V</b>   | LABBRO PER PRESSIONE < 5 BAR          | <i>PRESSURE LIP &lt; 5 BAR</i>           |
| <b>P</b>   | LABBRO PER PRESSIONE > 5 BAR          | <i>PRESSURE LIP &gt; 5 BAR</i>           |
| <b>Y</b>   | ESECUZIONE SPECIALE                   | <i>SPECIAL EXECUTION</i>                 |
| <b>J</b>   | SPIGOLO TENUTA PTFE                   | <i>SEALING EDGE PTFE</i>                 |
| <b>SS</b>  | MOLLA ACCIAIO INOX                    | <i>STAINLESS STEEL SPRING</i>            |
| <b>SSS</b> | MOLLA + INSERTO ACCIAIO INOX          | <i>STAINLESS STEEL SPRING AND INSERT</i> |
| <b>GR</b>  | PREINGRASSATO                         | <i>GREASE FILLED BETWEEN LIPS</i>        |
| <b>LF</b>  | BASSO ATTRITO                         | <i>LOW FRICTION</i>                      |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| EBY          | 0,00                       | 18,00            | 16,00         | ND            |
| SGA          | 0,00                       | 19,00            | 8/10,5        |               |
| CPE          | 0,00                       | 25,40            | 16,00         |               |
| SGA          | 0,00                       | 30,00            | 8,5/11        |               |
| SGA          | 0,00                       | 30,00            | 8,50          |               |
| CPE          | 0,00                       | 31,75            | 16,00         |               |
| EBC          | 0,00                       | 34,00            | 18,00         | ND            |
| SGA          | 0,00                       | 35,00            | 8,00          |               |
| CPE          | 0,00                       | 38,07            | 19,10         |               |
| ROC          | 0,00                       | 40,00            | 4/6           |               |
| ROC          | 0,00                       | 40,00            | 5,00          |               |
| CPE          | 0,00                       | 41,28            | 19,05         |               |
| ROC          | 0,00                       | 45,13            | 5,5/6,5       |               |
| CPE          | 0,00                       | 47,63            | 19,05         | ND            |
| CPE          | 0,00                       | 50,80            | 19,10         |               |
| CPE          | 0,00                       | 53,00            | 8,5/23,5      |               |
| CPE          | 0,00                       | 54,00            | 7,5/14,5      |               |
| CPE          | 0,00                       | 57,15            | 19,10         |               |
| CPE          | 0,00                       | 60,30            | 19,10         |               |
| CPE          | 0,00                       | 63,55            | 19,05         |               |
| TC57         | 0,00                       | 70/78            | 13,00         | SUS316        |
| CPE          | 0,00                       | 73,00            | 13/25         |               |
| CPE          | 0,00                       | 73,03            | 22,40         |               |
| CPE          | 0,00                       | 79,35            | 22,40         |               |
| CPE          | 0,00                       | 80,00            | 19,05         |               |
| KC           | 2,30                       | 12,70            | 6,40          | GR            |
| KCW          | 2,30                       | 12,70            | 6,40          | GR            |
| KCW          | 2,30                       | 12,95            | 5,80          |               |
| KCW          | 2,30                       | 12,95            | 5,80          |               |
| KC           | 3,20                       | 12,70            | 6,40          | GR            |
| KCW          | 3,20                       | 12,70            | 6,40          | GR            |
| KCW          | 3,20                       | 12,70            | 6,40          | GR            |
| KCW          | 3,20                       | 15,82            | 6,90          | GR            |
| KCW          | 3,20                       | 15,82            | 7,00          | GR            |
| KCW          | 3,20                       | 15,82            | 7,00          | GR            |
| VY           | 4,00                       | 8,50             | 1,80          |               |
| SC2          | 4,00                       | 19,05            | 6,20          | SS            |
| TCY          | 4,00                       | 19,05            | 6,2/9,1       | SS            |
| KC           | 4,30                       | 17,90            | 6,00          |               |
| VS89         | 4,50                       | 7,50             | 6,5/8         | ND            |
| VS89         | 4,50                       | 8,20             | 6,4/8         | ND            |
| KCSY         | 4,50                       | 16/56            | 6/8,6         |               |
| KC           | 4,50                       | 16,00            | 7,00          |               |
| BO-5         | 4,57                       | 11,25            | 1,27          |               |
| TCY          | 4,62                       | 19,05            | 6,4/8,3       | SS            |
| KCY          | 4,62                       | 19,05            | 7,40          |               |
| KC           | 4,80                       | 14,50            | 4,00          |               |
| KC           | 4,80                       | 15,00            | 4,00          |               |
| KC           | 4,80                       | 22,00            | 7,00          |               |
| HKCR         | 4,80                       | 25,00            | 5,50          |               |
| VSC          | 5,00                       | 8,00             | 7/8           | SS            |
| VS81         | 5,00                       | 8,50             | 6/8,3         |               |
| WPY          | 5,00                       | 9,00             | 2,00          | ND            |
| KCY          | 5,00                       | 11,00            | 3/4           |               |
| KBY          | 5,00                       | 12,70            | 7/8           | ND            |
| KBR          | 5,00                       | 13,00            | 6,4/7,4       | GD            |
| KBR          | 5,00                       | 13,00            | 8,00          | GD            |
| KBRY         | 5,00                       | 14,00            | 4/5,5         | ND            |
| KBRY         | 5,00                       | 14,00            | 4/5,5         | ND            |
| KB           | 5,00                       | 14,00            | 5,00          | GD            |
| KBR          | 5,00                       | 14,08            | 5,10          | GD            |
| TCY          | 5,00                       | 15,00            | 4,5/6,5       |               |
| KC           | 5,00                       | 16,00            | 8,00          |               |
| KCSY         | 5,00                       | 22/53            | 11,00         |               |
| TB           | 5,00                       | 30,00            | 6,00          | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| VS83         | 5,50                       | 8,5/12           | 6,3/10        | SS            |
| VS85         | 5,50                       | 9,5/25           | 7/9,5         | SS            |
| VSC          | 5,50                       | 10/12            | 4,5/8         |               |
| VS82         | 5,50                       | 11,00            | 7/10          | SS            |
| VS81         | 5,50                       | 11,00            | 7,5/10        |               |
| VS81         | 5,50                       | 11,00            | 8/10,5        |               |
| SY           | 5,50                       | 15,50            | 5,50          |               |
| KC6          | 5,50                       | 16,00            | 8,00          |               |
| KCW          | 5,74                       | 24,66            | 11,43         | NDGR          |
| VS85         | 6,00                       | 9,5/26           | 17,00         | SSND          |
| VS82         | 6,00                       | 10,5/15,8        | 7/10          | SS            |
| VS85         | 6,00                       | 11/26,5          | 12/15,8       | SS            |
| VS85         | 6,00                       | 11,8/25          | 11/14         |               |
| VCP          | 6,00                       | 12,00            | 3,00          |               |
| VS81         | 6,00                       | 12,00            | 9/12          |               |
| VS81         | 6,00                       | 12,00            | 9/12          |               |
| VBR          | 6,00                       | 12,70            | 3,80          | ND            |
| VS85         | 6,00                       | 15,6/27,5        | 15,5/18,8     |               |
| VS85         | 6,00                       | 15,7/27,5        | 19,00         |               |
| KC           | 6,00                       | 18,00            | 5,00          |               |
| KC4          | 6,00                       | 18,00            | 7,00          |               |
| KC6Y         | 6,00                       | 19,00            | 7/8           |               |
| KCSY         | 6,00                       | 21/54,5          | 10,50         |               |
| KCSY         | 6,00                       | 21,5/55          | 12,00         |               |
| TC5Y         | 6,00                       | 22/55            | 5/9           |               |
| KCY          | 6,00                       | 22,00            | 7,00          |               |
| KCSY         | 6,00                       | 26,5/31          | 8,00          |               |
| BO-5         | 6,10                       | 12,83            | 1,27          |               |
| DC           | 6,35                       | 25,40            | 12,70         | SSLF          |
| VBR          | 6,40                       | 12,70            | 3,90          | ND            |
| VBC          | 6,40                       | 15,88            | 8,3/8,7       | ND            |
| SB           | 6,40                       | 19,05            | 6,00          | ND            |
| DCY          | 6,40                       | 19,05            | 6,4/9,5       | SS            |
| SB           | 6,40                       | 19,05            | 6,40          | GD            |
| SB           | 6,40                       | 19,05            | 6,40          | PO            |
| TB           | 6,40                       | 19,05            | 6,40          | GD            |
| DC           | 6,40                       | 19,05            | 9,50          | SS            |
| TB           | 6,40                       | 22,23            | 6,40          | PO            |
| DCY          | 6,40                       | 25,40            | 6,4/9,5       | SS            |
| TCY          | 6,40                       | 25,40            | 6,4/8,7       | SS            |
| DC           | 6,40                       | 25,40            | 12,70         | SS            |
| VCLF         | 6,50                       | 11,00            | 2,00          | LF            |
| KC           | 6,50                       | 14,50            | 7,00          |               |
| Y            | 6,50                       | 17,00            | 4/4,6         | ND            |
| VKY          | 6,75                       | 47,00            | 8,00          |               |
| VKY          | 6,75                       | 47,00            | 10,00         |               |
| VKY          | 6,75                       | 52,00            | 10,00         |               |
| KCY          | 6,80                       | 22,00            | 7,00          |               |
| KCY          | 6,80                       | 35,00            | 11,00         |               |
| KC3          | 7,00                       | 10,30            | 3,00          |               |
| VS81         | 7,00                       | 12,00            | 7,5/9         | ND            |
| VS81         | 7,00                       | 12,00            | 7,5/9         | ND            |
| TC4          | 7,00                       | 14,00            | 4,00          |               |
| KC           | 7,00                       | 15,00            | 7,00          | LF            |
| TC4          | 7,00                       | 16,00            | 7,00          |               |
| KC           | 7,00                       | 25,20            | 5,50          |               |
| KC           | 7,00                       | 26,00            | 5,50          |               |
| TCY          | 7,00                       | 26,20            | 5,50          |               |
| VS82         | 7,50                       | 11,00            | 6/10          | SS            |
| VSC          | 7,50                       | 11,00            | 6/11,5        | SS            |
| VS81         | 7,50                       | 12,50            | 10/13         | SS            |
| VWY          | 7,50                       | 16,00            | 5/8           |               |
| BO-3         | 7,60                       | 15,30            | 1,30          |               |
| DCF          | 7,85                       | 15,88            | 6,40          |               |
| SCY          | 7,90                       | 10,30            | 3,9/7,1       |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| VBR          | 7,90                       | 14,60            | 4,80          | GD            |
| TBR          | 7,90                       | 15,85            | 6,40          | SSGD          |
| TBY          | 7,90                       | 17,42            | 7,90          | ND            |
| TB21         | 7,90                       | 19,02            | 6,40          | P2            |
| KC           | 7,90                       | 19,05            | 6,40          |               |
| TB           | 7,90                       | 19,05            | 6,40          | GD            |
| TB2P         | 7,90                       | 19,05            | 6,40          | SSNDRD        |
| DC           | 7,90                       | 28,58            | 8,00          | SS            |
| TBRV         | 7,95                       | 15,65            | 7,60          | SSGD          |
| ECX          | 8,00                       | 31,98            | 4,80          |               |
| XRING        | 8,00                       | 11,00            | 1,75          |               |
| BO-2Y        | 8,00                       | 11,00            | 2,00          | ND            |
| VSC          | 8,00                       | 11,50            | 10/11         | SS            |
| VCLF         | 8,00                       | 12,00            | 2,00          | LF            |
| KC           | 8,00                       | 12,00            | 4,00          | GR            |
| VS87         | 8,00                       | 12,00            | 10/14         |               |
| TB           | 8,00                       | 13,50            | 5,00          | GD            |
| VS810        | 8,00                       | 13,70            | 13/16,5       | SS            |
| KC           | 8,00                       | 14,00            | 4,00          |               |
| SB           | 8,00                       | 14,00            | 4,00          | SSGD          |
| SBC          | 8,00                       | 14,00            | 4,00          | SSND          |
| TB           | 8,00                       | 14,00            | 6,00          | GD            |
| VS87         | 8,00                       | 14,30            | 10/12,8       |               |
| TB           | 8,00                       | 14,65            | 5,00          | GD            |
| TB           | 8,00                       | 15,00            | 5,00          | GD            |
| SB           | 8,00                       | 15,00            | 8,00          | GD            |
| VBY          | 8,00                       | 16,00            | 3/2           | ND            |
| VPY          | 8,00                       | 16,00            | 3,50          |               |
| KCWJ         | 8,00                       | 16,00            | 4,5/5         |               |
| SB           | 8,00                       | 16,00            | 5,00          | GD            |
| TCW          | 8,00                       | 16,00            | 5,00          | GR            |
| VP           | 8,00                       | 16,00            | 5,00          |               |
| KC           | 8,00                       | 16,00            | 5,50          |               |
| KC           | 8,00                       | 16,00            | 6,00          |               |
| SB           | 8,00                       | 16,00            | 7,00          | GD            |
| TC4          | 8,00                       | 16,00            | 7,50          |               |
| TB6Y         | 8,00                       | 16,00            | 9/11          | GD            |
| TC4          | 8,00                       | 16,00            | 9,00          |               |
| DC           | 8,00                       | 16,00            | 10,00         |               |
| TCLW         | 8,00                       | 16,00            | 10/11         |               |
| VS84         | 8,00                       | 16,00            | 10/14         |               |
| VS85         | 8,00                       | 16,5/33          | 24,00         | SS            |
| TC4          | 8,00                       | 17,00            | 10,00         |               |
| KCY          | 8,00                       | 17,40            | 5/7           |               |
| KC           | 8,00                       | 18,00            | 4,00          |               |
| KC           | 8,00                       | 18,00            | 5,00          |               |
| SCJ          | 8,00                       | 18,00            | 5,00          |               |
| SC4          | 8,00                       | 18,00            | 7,00          | SS            |
| TC4          | 8,00                       | 18,00            | 7,00          |               |
| TC4          | 8,00                       | 18,00            | 7,00          |               |
| VBC5Y        | 8,00                       | 18/26            | 8/17,4        | ND            |
| WPY          | 8,00                       | 18,00            | 9,6/11,4      |               |
| KC4Y         | 8,00                       | 18,00            | 10/14,5       |               |
| KC56Y        | 8,00                       | 18/23            | 11/17,5       | ND            |
| TC4          | 8,00                       | 19,50            | 10,00         |               |
| TCY          | 8,00                       | 20,00            | 6/8           |               |
| TC4          | 8,00                       | 20,00            | 10,00         |               |
| TC4          | 8,00                       | 21,50            | 10,00         |               |
| SC2P         | 8,00                       | 22,00            | 3/3,5         |               |
| Y            | 8,00                       | 22,00            | 3/5,5         |               |
| TB           | 8,00                       | 22,00            | 4,00          | GD            |
| SB           | 8,00                       | 22,00            | 7,00          | GD            |
| TC4          | 8,00                       | 22,00            | 10,00         |               |
| TC4          | 8,00                       | 22,00            | 11,00         |               |
| TC4P         | 8,00                       | 27,00            | 4/8,5         |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TC4          | 8,00                       | 28,00            | 11,00         |               |
| VCY2         | 8,00                       | 32,00            | 4,8/9         | ND            |
| PDC          | 8,00                       | 32,00            | 18,00         |               |
| VBY          | 8,20                       | 22,00            | 3,20          |               |
| KC2Y         | 8,20                       | 24/34            | 8,00          |               |
| SA2          | 8,30                       | 21,23            | 7,90          | GD            |
| ECX          | 8,40                       | 38,10            | 6,40          |               |
| ECX          | 8,43                       | 38,10            | 4,80          |               |
| VS82         | 8,50                       | 12,00            | 5,5/11        |               |
| VS811        | 8,50                       | 14/18            | 18,50         | SS            |
| SBY          | 8,50                       | 15,88            | 7/12,7        | GD            |
| VBY          | 8,50                       | 16,00            | 2/3,2         | ND            |
| KC3WY        | 8,50                       | 17,00            | 8,00          |               |
| VP           | 8,50                       | 18,50            | 4,5/6         |               |
| VBY          | 8,50                       | 21,00            | 5,5/8,6       | ND            |
| VBY          | 8,50                       | 21,00            | 5,5/8,6       | ND            |
| VBY          | 8,50                       | 23,50            | 5,5/8,6       | ND            |
| VBY          | 8,50                       | 23,50            | 5,5/8,6       | ND            |
| VSC          | 9,00                       | 11,50            | 9/11          | SS            |
| VS86         | 9,00                       | 12/15,4          | 10,50         |               |
| SB           | 9,00                       | 16,00            | 5,00          | GD            |
| VP           | 9,00                       | 16,00            | 5,00          |               |
| VP           | 9,00                       | 16,00            | 5,00          |               |
| VBY          | 9,00                       | 16,00            | 9/15          |               |
| SB           | 9,00                       | 17,00            | 4,50          | SSGD          |
| SB           | 9,00                       | 18,00            | 6,00          | GD            |
| KC           | 9,00                       | 19,00            | 5,00          |               |
| KCY          | 9,00                       | 19,00            | 5,00          |               |
| SB           | 9,00                       | 19,00            | 5,00          | SSSGD         |
| TB           | 9,00                       | 19,00            | 7,00          | GD            |
| TCY          | 9,00                       | 21,00            | 6/8           |               |
| TC4          | 9,00                       | 21,00            | 10,00         |               |
| TBY          | 9,00                       | 21,45            | 4,3/5         | PO            |
| TCY          | 9,00                       | 23,00            | 7/9           | GR            |
| TC4          | 9,00                       | 25,50            | 12,00         |               |
| BO-5         | 9,25                       | 16,92            | 1,30          |               |
| KC           | 9,50                       | 14,29            | 3,20          |               |
| VS8          | 9,50                       | 15,00            | 16,00         | ND            |
| SCY          | 9,50                       | 15,50            | 5/8           |               |
| TCY          | 9,50                       | 15,88            | 3,2/6,4       | SS            |
| KC           | 9,50                       | 15,88            | 4,80          |               |
| KC           | 9,50                       | 16,00            | 4,00          |               |
| TBR          | 9,50                       | 17,46            | 4,00          | P1            |
| VBR          | 9,50                       | 17,46            | 7,90          | GD            |
| SB           | 9,50                       | 18,50            | 5,50          | GD            |
| DC           | 9,50                       | 19,05            | 6,40          | SS            |
| SB           | 9,50                       | 19,05            | 6,40          | P5            |
| SB21         | 9,50                       | 19,05            | 6,40          | SSSND         |
| TBR          | 9,50                       | 19,05            | 6,40          | GD            |
| TB2          | 9,50                       | 22,23            | 6,40          | ND            |
| VB2P         | 9,50                       | 22,23            | 6,40          | P2RD          |
| VB2P         | 9,50                       | 22,23            | 6,40          | P2RD          |
| SBR          | 9,50                       | 25,37            | 7,90          | ND            |
| KCY          | 9,50                       | 25,40            | 4,80          |               |
| TBP          | 9,50                       | 25,40            | 6,40          | SSGD          |
| VAT          | 9,50                       | 26,20            | 6,40          | ND            |
| TBP          | 9,50                       | 27,00            | 6,40          | SSGD          |
| TB           | 9,53                       | 19,05            | 6,40          | GD            |
| TB2          | 9,53                       | 19,05            | 6,40          | P5            |
| SB2          | 9,53                       | 21,23            | 4,80          | P5            |
| SB2          | 9,53                       | 22,23            | 6,40          | ND            |
| TC4          | 9,53                       | 22,23            | 6,40          |               |
| ECY          | 10,00                      | 52,40            | 6,3/9,6       |               |
| VP           | 10,00                      | 14,00            | 2,50          |               |
| KC           | 10,00                      | 14,00            | 4,00          |               |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                     |                  | Note<br>Notes |
|--------------|-----------------------------------|---------------------|------------------|---------------|
|              | Diametro <i>Diameter</i>          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal               | Esterno<br>External |                  |               |
| KC5          | 10,00                             | 15/18               | 3,00             |               |
| VCP          | 10,00                             | 16,00               | 3,00             |               |
| VP           | 10,00                             | 16,00               | 3,00             |               |
| SCY          | 10,00                             | 16,00               | 5/8              |               |
| SB           | 10,00                             | 16,00               | 6,00             | ND            |
| DVC          | 10,00                             | 16,20               | 3,6/5            |               |
| SB           | 10,00                             | 17,00               | 4,50             | GD            |
| SB           | 10,00                             | 17,00               | 5,00             | GD            |
| SBR          | 10,00                             | 17,00               | 5,00             | GD            |
| VBY          | 10,00                             | 17,50               | 5,00             | ND            |
| SCY          | 10,00                             | 17,80               | 6,00             |               |
| TCLW         | 10,00                             | 18,00               | 4/4,8            |               |
| DCY          | 10,00                             | 18,00               | 5/8              | SS            |
| KC           | 10,00                             | 18,00               | 5,00             |               |
| SB2          | 10,00                             | 18,80               | 5,20             | SSNDRD        |
| TBR          | 10,00                             | 19,00               | 5,00             | ND            |
| VP6          | 10,00                             | 19,50               | 7,00             |               |
| VP4          | 10,00                             | 20,00               | 3/3,5            |               |
| SB           | 10,00                             | 20,00               | 5,00             | GD            |
| VP           | 10,00                             | 20,00               | 5,00             |               |
| VP           | 10,00                             | 20,00               | 5,00             |               |
| HTCR         | 10,00                             | 20,00               | 5,50             |               |
| TCA          | 10,00                             | 20,00               | 5,5/7            |               |
| TCL          | 10,00                             | 20,00               | 6/8              |               |
| VC2Y         | 10,00                             | 20/28               | 6,00             |               |
| TB           | 10,00                             | 20,00               | 7,00             | GD            |
| DC           | 10,00                             | 20,00               | 8,00             |               |
| TC4          | 10,00                             | 20,00               | 8,00             |               |
| TB4          | 10,00                             | 20,00               | 9,50             | GD            |
| TC4          | 10,00                             | 20,00               | 9,50             |               |
| TC4          | 10,00                             | 20,00               | 10,50            |               |
| TC4          | 10,00                             | 21,00               | 7,50             |               |
| DC           | 10,00                             | 21,00               | 9,00             |               |
| KCY          | 10,00                             | 21,00               | 10,00            | GR            |
| TC4          | 10,00                             | 21,00               | 10,00            | GR1           |
| KB2Y         | 10,00                             | 21,5/30             | 7,00             | P1            |
| TCLW         | 10,00                             | 22,00               | 3,7/4,5          | SS            |
| OVY          | 10,00                             | 22,00               | 5,00             |               |
| TC3Y         | 10,00                             | 22,00               | 7,00             |               |
| DC           | 10,00                             | 22,00               | 8,00             | SS            |
| TC4          | 10,00                             | 22,00               | 10,00            |               |
| TC4          | 10,00                             | 22,00               | 11,00            |               |
| TC4Y         | 10,00                             | 22,00               | 11,00            |               |
| KB2Y         | 10,00                             | 22,2/29             | 6,00             | P1            |
| TBY          | 10,00                             | 22,40               | 5,5/6,5          | P0            |
| SBCY         | 10,00                             | 22,50               | 6,20             | SSND          |
| VP           | 10,00                             | 23,00               | 4,50             |               |
| SBCY         | 10,00                             | 23,50               | 6,20             | NDGR          |
| VP           | 10,00                             | 24,00               | 4,50             |               |
| SBCY         | 10,00                             | 24,00               | 6,20             | SSNDGR        |
| KC2Y         | 10,00                             | 24/33               | 7,00             |               |
| DC           | 10,00                             | 24,00               | 8,00             |               |
| TC4          | 10,00                             | 24,00               | 8,00             |               |
| VY           | 10,00                             | 24,89               | 2,70             |               |
| KCY          | 10,00                             | 25,00               | 5/7,6            |               |
| VB2Y         | 10,00                             | 25/32               | 5,00             | P1            |
| TB           | 10,00                             | 25,40               | 6,40             | SSGDLF        |
| TBCW         | 10,00                             | 25,40               | 6,40             | SSNDGR        |
| KB2Y         | 10,00                             | 25,5/32             | 8,00             | P1            |
| TC4          | 10,00                             | 25,50               | 12,00            |               |
| VCY          | 10,00                             | 26,00               | 3,9/5,7          |               |
| SCY          | 10,00                             | 26,00               | 7,00             | SS            |
| TCAT         | 10,00                             | 26,00               | 8/8,5            | GR            |
| DC           | 10,00                             | 26,00               | 9,00             |               |
| DC           | 10,00                             | 26,82               | 7,00             | SS            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| TBCW         | 10,00                      | 27,00               | 8,00             | SSNDGR        |
| TBRP         | 10,00                      | 27,00               | 8,00             | SSGDGR        |
| TCAT         | 10,00                      | 27,00               | 8,00             | GR            |
| TCAT         | 10,00                      | 27,00               | 8/8,5            | SSGR          |
| VCY          | 10,00                      | 27,00               | 8,00             | GR            |
| KC2Y         | 10,00                      | 27,5/35             | 6,00             |               |
| TCT          | 10,00                      | 27,50               | 9,50             |               |
| TCT          | 10,00                      | 27,50               | 9,50             |               |
| KBY          | 10,00                      | 28/35               | 6/8              | ND            |
| VB5Y         | 10,00                      | 28/67               | 6/7              | ND            |
| KC2Y         | 10,00                      | 28/38               | 10,50            |               |
| TC4          | 10,00                      | 28,00               | 13,40            | GR            |
| TC4          | 10,00                      | 28,00               | 13,40            |               |
| VB2Y         | 10,00                      | 29/34               | 7,00             | P1            |
| DC4Y         | 10,00                      | 29,00               | 8,2/11,5         | SS            |
| SB           | 10,00                      | 30,00               | 7,00             | GD            |
| TC4          | 10,00                      | 30,00               | 12,00            |               |
| KB2Y         | 10,00                      | 30,5/40,3           | 7,00             | P1            |
| TC4P2        | 10,00                      | 31,00               | 3,5/10           |               |
| DC4A         | 10,00                      | 31,00               | 13,50            | SS            |
| DC4AJ        | 10,00                      | 31,00               | 13,50            | SS            |
| SCY          | 10,00                      | 31,00               | 13,50            | SS            |
| TC4          | 10,00                      | 31,90               | 13,40            | GR            |
| TC4          | 10,00                      | 32,00               | 12,00            | GR            |
| TC4          | 10,00                      | 32,00               | 13,40            |               |
| TC4          | 10,00                      | 36,30               | 12,00            |               |
| TC4          | 10,00                      | 37,00               | 12,00            |               |
| OVY          | 10,00                      | 39,70               | 7,50             | ND            |
| TC2          | 10,00                      | 45,00               | 6,00             | SS            |
| KB           | 10,40                      | 25,50               | 5,30             | P0            |
| VCY          | 10,50                      | 15,00               | 3/3,5            |               |
| VCY          | 10,50                      | 15,00               | 3,50             |               |
| VBY          | 10,50                      | 19,00               | 3/4,2            | ND            |
| Y            | 10,50                      | 19,84               | 3,8/5            |               |
| BO-1Y        | 10,70                      | 16,00               | 1,50             |               |
| SB           | 10,81                      | 22,23               | 7,90             | SSSGD         |
| SBA          | 10,81                      | 22,23               | 7,90             | SSSGD         |
| BO-5         | 10,85                      | 19,30               | 1,27             |               |
| VSC          | 11,00                      | 15,90               | 7/11             | SS            |
| SCY          | 11,00                      | 16,00               | 5/7,5            |               |
| SB           | 11,00                      | 17,00               | 4,00             | SSP5          |
| SCW          | 11,00                      | 17,00               | 4,00             |               |
| TC7          | 11,00                      | 17,00               | 4/6              |               |
| SBR          | 11,00                      | 18,00               | 5,00             | GD            |
| TBR          | 11,00                      | 18,00               | 5,00             | ND            |
| VBY          | 11,00                      | 18,00               | 5,70             | ND            |
| SBR          | 11,00                      | 18,00               | 6,00             | GD            |
| SCY          | 11,00                      | 19,00               | 4,5/8,5          | SSND          |
| SCY          | 11,00                      | 19,00               | 4,5/8,5          | SS            |
| SCY          | 11,00                      | 19,00               | 4,5/8,5          | SS            |
| TB           | 11,00                      | 20,00               | 4,00             | GD            |
| SBR          | 11,00                      | 20,00               | 4,50             | GD            |
| TB           | 11,00                      | 20,00               | 4,50             | GD            |
| DC4Y         | 11,00                      | 21,00               | 5,7/7,2          | SS            |
| DC           | 11,00                      | 21,00               | 8,00             |               |
| DC4A         | 11,00                      | 21,00               | 8/10             |               |
| SB           | 11,00                      | 22,00               | 7,00             | SSND          |
| HTCL         | 11,00                      | 22,15               | 5,60             |               |
| TC4P         | 11,00                      | 23,00               | 4/8,7            |               |
| TC4P         | 11,00                      | 27,00               | 4/8,5            |               |
| TC4          | 11,00                      | 28,00               | 13,40            | GR            |
| TC4          | 11,00                      | 28,00               | 13,40            |               |
| BU           | 11,00                      | 29,40               | 33,00            |               |
| TC4P         | 11,00                      | 30,00               | 3,5/7,8          |               |
| TC4P         | 11,00                      | 30,00               | 3,5/8,7          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TC4P         | 11,00                      | 31,00            | 3,5/10        |               |
| TC4P2        | 11,00                      | 31,00            | 3,5/10        |               |
| TC4P         | 11,00                      | 31,00            | 4/10          |               |
| TC4          | 11,00                      | 31,90            | 13,40         | GR            |
| TC4P         | 11,00                      | 32,00            | 3,7/10        |               |
| TC4P         | 11,00                      | 33,00            | 3,5/8,5       |               |
| TC4P         | 11,00                      | 33,00            | 4/7           |               |
| TC4P2        | 11,00                      | 33,00            | 4/7           |               |
| TC4P2        | 11,00                      | 37,50            | 3,3/8,5       |               |
| SCT          | 11,00                      | 38,00            | 10,00         |               |
| SCY          | 11,00                      | 38,00            | 10,00         |               |
| TC4P         | 11,00                      | 38,80            | 3,7/10        |               |
| VP           | 11,05                      | 18,03            | 3,05          |               |
| TCY          | 11,10                      | 15,88            | 4/5,3         |               |
| SBR          | 11,10                      | 19,05            | 6,40          | GD            |
| KC           | 11,10                      | 19,05            | 7,30          |               |
| KC           | 11,10                      | 19,05            | 7,5/8,5       |               |
| VBY          | 11,10                      | 22,23            | 4,45          | ND            |
| TB2          | 11,10                      | 22,23            | 6,40          | P0            |
| SB           | 11,10                      | 22,23            | 7,90          | GD            |
| SB           | 11,10                      | 23,81            | 4,80          | P0            |
| SB           | 11,10                      | 23,90            | 5,10          | ND            |
| SB           | 11,10                      | 25,37            | 6,40          | SSP2          |
| SB           | 11,10                      | 25,37            | 9,50          | P5GR          |
| SBV          | 11,10                      | 25,40            | 6,40          | GD            |
| SA2          | 11,10                      | 28,55            | 6,40          | P2            |
| SB2          | 11,10                      | 28,58            | 6,40          | ND            |
| SCY          | 11,11                      | 17,46            | 4,1/6,4       |               |
| SCY          | 11,11                      | 18,26            | 4,1/6,4       |               |
| SB2          | 11,11                      | 22,23            | 6,40          | P5            |
| TB           | 11,11                      | 22,23            | 6,40          | GD            |
| TBR          | 11,11                      | 22,23            | 6,40          | GD            |
| SBR          | 11,11                      | 22,23            | 8,00          | GD            |
| SBR          | 11,11                      | 25,37            | 9,50          | GD            |
| SBR          | 11,11                      | 25,40            | 6,40          | GD            |
| SAVT         | 11,15                      | 25,40            | 7,90          | SSGD          |
| RO           | 11,30                      | 18,28            | 4,80          |               |
| BO-1         | 11,80                      | 18,50            | 1,50          | SUS           |
| SCY          | 11,90                      | 17,46            | 5,2/7,9       |               |
| KC5          | 11,90                      | 18,54/22,23      | 5,00          |               |
| VBG          | 11,90                      | 19,05            | 3,20          | ND            |
| KC           | 11,90                      | 19,05            | 7,5/9         |               |
| KC           | 11,90                      | 19,05            | 7,5/9         |               |
| TCI          | 11,90                      | 22,23            | 6,40          |               |
| TB2          | 11,90                      | 22,23            | 7,90          | P2            |
| VAT          | 11,90                      | 28,58            | 7,90          | ND            |
| VP6          | 12,00                      | 22,00            | 8,00          |               |
| VBY          | 12,00                      | 16,00            | 3,00          | GD            |
| UP           | 12,00                      | 16,50            | 3,2/4         |               |
| KC           | 12,00                      | 18,00            | 4,00          |               |
| SB           | 12,00                      | 18,00            | 4,00          | GD            |
| TBR          | 12,00                      | 18,00            | 4,50          | ND            |
| KCLW         | 12,00                      | 18,00            | 5/6           |               |
| SBR          | 12,00                      | 18,00            | 6,00          | GD            |
| KCLW         | 12,00                      | 19,00            | 4/5,3         |               |
| TCY          | 12,00                      | 19,00            | 4/5           |               |
| VBR          | 12,00                      | 19,00            | 4,50          | GD            |
| SB           | 12,00                      | 19,00            | 5,00          | ND            |
| KCLW         | 12,00                      | 20,00            | 4/6           |               |
| SB           | 12,00                      | 20,00            | 5,00          | GD            |
| TB           | 12,00                      | 20,00            | 5,00          | GD            |
| TC4L         | 12,00                      | 20,00            | 5/7           |               |
| TC7          | 12,00                      | 20,00            | 5/10          |               |
| TB           | 12,00                      | 20,00            | 5,50          | GD            |
| VP           | 12,00                      | 20,00            | 5,50          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| DC           | 12,00                      | 20,00            | 7,00          |               |
| KC           | 12,00                      | 21,00            | 4,00          |               |
| VCY          | 12,00                      | 21,60            | 5/6,5         |               |
| KC           | 12,00                      | 22,00            | 3,60          | GR            |
| KCYW         | 12,00                      | 22,00            | 4/6           |               |
| SB           | 12,00                      | 22,00            | 4,00          | ND            |
| TCX          | 12,00                      | 22/25,4          | 4,00          |               |
| TCX          | 12,00                      | 22/25,4          | 4,00          |               |
| SB           | 12,00                      | 22,00            | 5,00          | GD            |
| TC7          | 12,00                      | 22,00            | 5/10          |               |
| KC           | 12,00                      | 22,00            | 7,00          |               |
| SB           | 12,00                      | 22,00            | 7,00          | GD            |
| SCI          | 12,00                      | 22,00            | 7,00          |               |
| TB2V         | 12,00                      | 22,00            | 7,00          | GD            |
| TB4          | 12,00                      | 22,00            | 7,00          | GD            |
| TC3          | 12,00                      | 22,00            | 7,00          | SSS           |
| TC4          | 12,00                      | 22,00            | 7,00          |               |
| TC45         | 12,00                      | 22/24            | 7/8,5         |               |
| DC           | 12,00                      | 22,00            | 8,00          |               |
| DKH          | 12,00                      | 23,00            | 5/7           | GD            |
| TB           | 12,00                      | 23,00            | 8,00          | GD            |
| TC4P         | 12,00                      | 24,00            | 2/7           |               |
| SCY          | 12,00                      | 24,00            | 3,5/5,5       |               |
| SCF          | 12,00                      | 24,00            | 4,50          | SSLF          |
| SCF          | 12,00                      | 24,00            | 4,50          | SSLF          |
| OVY          | 12,00                      | 24,00            | 6,00          |               |
| KAT          | 12,00                      | 24,00            | 7/12          | ND            |
| KB2Y         | 12,00                      | 24/32            | 7,00          | P1            |
| SB           | 12,00                      | 24,00            | 7,00          | GD            |
| SCI          | 12,00                      | 24,00            | 7,00          |               |
| TC4          | 12,00                      | 24,00            | 7,00          |               |
| TCI          | 12,00                      | 24,00            | 7,00          |               |
| DC           | 12,00                      | 24,00            | 8,00          |               |
| VBY          | 12,00                      | 24,00            | 8/13          | ND            |
| KB2Y         | 12,00                      | 24/31            | 8,50          | P1            |
| VP           | 12,00                      | 24,50            | 5,5/7,5       |               |
| SB2          | 12,00                      | 25,00            | 5,00          | GD            |
| TC3          | 12,00                      | 25,00            | 7,00          | SS            |
| TC3A         | 12,00                      | 25,00            | 7/8,5         | SS            |
| TC4          | 12,00                      | 25,00            | 7,00          |               |
| TC3Y         | 12,00                      | 25,00            | 8/11          |               |
| TB2I         | 12,00                      | 27,00            | 7,00          | GD            |
| TCAT         | 12,00                      | 27,00            | 10/10,5       |               |
| VCY          | 12,00                      | 27,00            | 10/10,5       |               |
| TC5          | 12,00                      | 28/30            | 5,00          | SS            |
| SB2          | 12,00                      | 28,00            | 7,00          | GD            |
| SCI          | 12,00                      | 28,00            | 7,00          | SS            |
| TB2V         | 12,00                      | 28,00            | 7,00          | GD            |
| TC3          | 12,00                      | 28,00            | 7,00          | GR            |
| TC4          | 12,00                      | 28,00            | 7,00          |               |
| DC           | 12,00                      | 28,00            | 8,00          |               |
| KC2Y         | 12,00                      | 28/39            | 8,50          |               |
| KB2Y         | 12,00                      | 28,5/35          | 6,00          | P1            |
| DC4Y         | 12,00                      | 29,00            | 9/17          |               |
| KB2Y         | 12,00                      | 29/35            | 9,00          | P1            |
| SCE          | 12,00                      | 30,00            | 6,00          | SS            |
| TC4          | 12,00                      | 30,00            | 7,00          |               |
| KB2Y         | 12,00                      | 30,8/40,35       | 7,00          | P1            |
| SB2          | 12,00                      | 32,00            | 6,00          | ND            |
| SB2          | 12,00                      | 32,00            | 7,00          | GD            |
| SC5XI        | 12,00                      | 32/33,5          | 7/8,2         |               |
| TB2          | 12,00                      | 32,00            | 7,00          | GD            |
| TC4          | 12,00                      | 32,00            | 10,00         |               |
| KC2Y         | 12,00                      | 33/40            | 5,50          |               |
| TC4          | 12,00                      | 33,00            | 10,00         |               |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TC4          | 12,00                      | 33,00            | 10,00         |               |
| TC4          | 12,00                      | 34,00            | 12,00         |               |
| TC4P         | 12,00                      | 35,00            | 5/10          |               |
| TCYSF        | 12,00                      | 35,76            | 10,5/16       |               |
| TCY          | 12,00                      | 36,20            | 12,4/14,8     |               |
| TCY          | 12,00                      | 36,20            | 12,4/14,8     |               |
| TC4          | 12,00                      | 37,00            | 12,00         |               |
| SCY          | 12,00                      | 40,00            | 3/8,5         |               |
| KBC          | 12,00                      | 40,00            | 5,00          | SUSND         |
| TC4          | 12,00                      | 40,00            | 12,00         |               |
| BU           | 12,20                      | 32,00            | 28,20         |               |
| VAT          | 12,30                      | 22,24            | 6,40          | SUSP2         |
| VAT          | 12,30                      | 23,01            | 6,40          | SUSP0         |
| SCY          | 12,40                      | 25/27            | 4,5/7,5       | SS            |
| TC4Y         | 12,40                      | 27,00            | 5,6/10,7      |               |
| TC4P2        | 12,40                      | 31,00            | 3/10          |               |
| HTCL         | 12,45                      | 20,00            | 5,00          |               |
| HTCL         | 12,45                      | 22,00            | 6,00          | SS            |
| HTCR         | 12,45                      | 22,00            | 6,00          | SS            |
| HTCR         | 12,45                      | 22,00            | 6,00          | SS            |
| BO-5         | 12,45                      | 22,35            | 1,27          |               |
| TCWI         | 12,50                      | 19,00            | 5,00          |               |
| VP           | 12,50                      | 20,00            | 5,00          |               |
| VP           | 12,50                      | 20,00            | 5,00          |               |
| SCY          | 12,50                      | 20,50            | 4,5/8,5       | SS            |
| VCY          | 12,50                      | 21,00            | 5,5/7         |               |
| VCP          | 12,50                      | 22,00            | 5,00          |               |
| HTCI         | 12,50                      | 22,00            | 6,00          |               |
| SCY          | 12,50                      | 22,00            | 6,5/8,7       | SS            |
| HTCI         | 12,50                      | 22,50            | 5,00          |               |
| VP6          | 12,50                      | 23,50            | 8,00          |               |
| VP6          | 12,50                      | 23,50            | 8,00          |               |
| VP           | 12,50                      | 24,00            | 5,00          |               |
| TC4L         | 12,50                      | 24,20            | 7,5/9,5       |               |
| VP           | 12,50                      | 25,00            | 5,00          |               |
| SB           | 12,50                      | 25,00            | 6,00          | ND            |
| TC3          | 12,50                      | 25,00            | 8,00          | SS            |
| TC3A         | 12,50                      | 25,00            | 8,00          | SSGR          |
| TC4L         | 12,50                      | 25,40            | 7/8,5         |               |
| DC4Y         | 12,50                      | 26,00            | 5/12          |               |
| SCY          | 12,50                      | 27,00            | 4,5/7,5       |               |
| VB2Y         | 12,50                      | 28/33            | 4,50          | P1            |
| TC4          | 12,50                      | 28,00            | 13,40         |               |
| TC4          | 12,50                      | 30,00            | 13,40         |               |
| VB2Y         | 12,50                      | 32/38            | 6,30          | ND            |
| TC4          | 12,50                      | 32,00            | 12,00         |               |
| TC4          | 12,50                      | 32,00            | 15,00         |               |
| TC4P2        | 12,50                      | 34,00            | 7/9,5         |               |
| TC4          | 12,50                      | 34,00            | 14,40         |               |
| TC4P3        | 12,50                      | 36,00            | 3/7,5         |               |
| TC4          | 12,50                      | 36,00            | 12/12,5       |               |
| TC4          | 12,50                      | 36,50            | 13,40         |               |
| DC4P3        | 12,50                      | 39,00            | 4/9           | SS            |
| TC4          | 12,50                      | 39,50            | 10,00         |               |
| KBY          | 12,70                      | 15,88            | 4,80          | ND            |
| SBY          | 12,70                      | 17,50            | 3,80          | SSP2          |
| SBY          | 12,70                      | 17,50            | 3,80          | SSP2          |
| BO-1Y        | 12,70                      | 18,00            | 1,50          |               |
| KC           | 12,70                      | 19,00            | 4,00          | LF            |
| SCW          | 12,70                      | 19,03            | 4,20          |               |
| SCW          | 12,70                      | 19,03            | 4,20          |               |
| SB           | 12,70                      | 19,05            | 3,20          | ND            |
| TCY          | 12,70                      | 19,05            | 3,2/3,8       | SS            |
| TCY          | 12,70                      | 19,05            | 3,2/3,8       | SS            |
| WKB          | 12,70                      | 19,05            | 3,20          | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TC42         | 12,70                      | 19,05            | 4,20          | SS            |
| VBR          | 12,70                      | 19,05            | 4,90          | ND            |
| KC           | 12,70                      | 19,05            | 7,5/8         |               |
| VB5R         | 12,70                      | 19,7/25,4        | 4,80          | ND            |
| SB           | 12,70                      | 20,35            | 4,80          | ND            |
| VB2          | 12,70                      | 21,41            | 6,40          | P2            |
| SA2          | 12,70                      | 22,20            | 7,90          | SSND          |
| DC           | 12,70                      | 22,23            | 4,80          | GR            |
| SB2          | 12,70                      | 22,23            | 4,80          | GD            |
| TB           | 12,70                      | 22,23            | 6,40          | SSGD          |
| TC4          | 12,70                      | 22,23            | 6,40          |               |
| UPJ          | 12,70                      | 22,23            | 6,40          | GD            |
| SB           | 12,70                      | 22,23            | 7,90          | P0            |
| TB           | 12,70                      | 22,23            | 7,90          | P0            |
| DBY          | 12,70                      | 22,86            | 5,2/9,1       | SSSGD         |
| TC4          | 12,70                      | 23,81            | 10,00         |               |
| TB2          | 12,70                      | 25,37            | 6,40          | P2            |
| TB           | 12,70                      | 25,37            | 9,50          | P0            |
| SB           | 12,70                      | 25,40            | 4,80          | SSSGD         |
| SBA          | 12,70                      | 25,40            | 4,80          | SSSGD         |
| SB           | 12,70                      | 25,40            | 6,40          | GD            |
| SB           | 12,70                      | 25,40            | 6,40          | P0            |
| SB2          | 12,70                      | 25,40            | 6,40          | P2            |
| TB           | 12,70                      | 25,40            | 6,40          | GD            |
| TB2          | 12,70                      | 25,40            | 6,40          | NDRD          |
| TBP          | 12,70                      | 25,40            | 6,40          | SSGD          |
| TC3          | 12,70                      | 25,40            | 6,40          | GR            |
| SA2          | 12,70                      | 25,40            | 9,50          | P2            |
| SAVT         | 12,70                      | 26,70            | 4,50          | SS            |
| TBP          | 12,70                      | 27,00            | 6,40          | SSGD          |
| TBP          | 12,70                      | 28,55            | 6,40          | SSGD          |
| SAVT         | 12,70                      | 28,58            | 6,40          | SSP3          |
| SB2          | 12,70                      | 28,58            | 6,40          | SSP5          |
| SBY          | 12,70                      | 28,58            | 6,40          | GD            |
| TB2          | 12,70                      | 28,58            | 6,40          | GD            |
| TB2I         | 12,70                      | 28,58            | 6,40          | GD            |
| TC3          | 12,70                      | 28,58            | 6,40          | GR            |
| VB2J         | 12,70                      | 28,58            | 6,40          | ND            |
| SA2          | 12,70                      | 28,58            | 9,50          | GD            |
| SB           | 12,70                      | 31,75            | 4,80          | SSSGD         |
| SBA          | 12,70                      | 31,75            | 4,80          | SSSGD         |
| SB2          | 12,70                      | 31,75            | 6,40          | P2            |
| TC4          | 12,70                      | 32,00            | 8,00          |               |
| TB2P         | 12,70                      | 34,90            | 6,40          | GD            |
| SB           | 12,70                      | 34,93            | 6,40          | ND            |
| VCO          | 13,00                      | 19,00            | 2,50          |               |
| VBG          | 13,00                      | 19,00            | 3,00          | ND            |
| VBG          | 13,00                      | 19,00            | 3,00          | GD            |
| KB           | 13,00                      | 19,00            | 3,25          | ND            |
| TB           | 13,00                      | 19,00            | 4,00          | GD            |
| VBG          | 13,00                      | 19,00            | 4/4,7         | ND            |
| VP           | 13,00                      | 19,00            | 4,00          |               |
| KCLW         | 13,00                      | 20,00            | 4/6           |               |
| TBR          | 13,00                      | 20,00            | 5,00          | GD            |
| TB           | 13,00                      | 20,00            | 5,50          | GD            |
| DC40Y        | 13,00                      | 22,00            | 5/7           | SS            |
| TB           | 13,00                      | 22,00            | 5,00          | GD            |
| TC4          | 13,00                      | 22,00            | 7,00          |               |
| SB           | 13,00                      | 24,00            | 6,00          | GD            |
| VP6          | 13,00                      | 24,00            | 8,00          |               |
| SC2          | 13,00                      | 25,00            | 6,00          | SS            |
| SB           | 13,00                      | 25,00            | 7,00          | GD            |
| TB           | 13,00                      | 25,00            | 7,00          | GD            |
| TC40         | 13,00                      | 25,00            | 7,00          |               |
| TC3Y         | 13,00                      | 25,00            | 8/11          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TB           | 13,00                      | 25,00            | 10,00         | GD            |
| HTBCR        | 13,00                      | 26,00            | 7,00          | NDGR          |
| DC           | 13,00                      | 26,00            | 10,00         |               |
| SB5          | 13,00                      | 26/31            | 12,00         | ND            |
| SB2          | 13,00                      | 28,00            | 7,00          | GD            |
| SCY          | 13,00                      | 28,00            | 17,50         |               |
| KC2Y         | 13,00                      | 28,5/38          | 9,00          | GR            |
| SBY          | 13,00                      | 31,00            | 3,50          |               |
| VP           | 13,40                      | 32,40            | 3,30          |               |
| VCLF         | 13,45                      | 19,50            | 4,00          | LF            |
| TB2          | 13,49                      | 25,37            | 6,40          | GD            |
| VKY          | 13,50                      | 68,00            | 8,00          |               |
| VCY          | 13,50                      | 23,20            | 5,5/7         |               |
| TC3          | 13,50                      | 25,80            | 8,00          | SS            |
| TC3A         | 13,50                      | 25,80            | 8/9,5         | SS            |
| TB2          | 13,60                      | 28,70            | 6,20          | P0            |
| BO-4         | 13,69                      | 19,05            | 2,87          |               |
| VY           | 13,80                      | 21,10            | 4/5           |               |
| TBCW         | 13,90                      | 23,10            | 5,50          | SSND          |
| SBY          | 13,97                      | 73,03            | 6,00          |               |
| SBY          | 13,97                      | 73,03            | 9,10          |               |
| VAX          | 14,00                      | 0,00             | 0,00          | ND            |
| Y            | 14,00                      | 17,50            | 5,45          | ND            |
| KB           | 14,00                      | 18,00            | 2,00          | ND            |
| KC           | 14,00                      | 20,00            | 3,20          |               |
| KC           | 14,00                      | 20,00            | 4,00          |               |
| VCY          | 14,00                      | 20,00            | 4/5           |               |
| VB5Y         | 14,00                      | 20,4/26          | 13,20         | ND            |
| VCY          | 14,00                      | 21,00            | 3/4           |               |
| KC           | 14,00                      | 21,00            | 6,00          |               |
| TCY          | 14,00                      | 21,59            | 4,1/5         | SS            |
| SCY          | 14,00                      | 22,00            | 4,5/8,5       | SS            |
| TCL          | 14,00                      | 22,00            | 4,5/5         |               |
| TCY          | 14,00                      | 22,00            | 4,5/5         |               |
| KCLW         | 14,00                      | 22,00            | 5/7           |               |
| KCLW         | 14,00                      | 22,00            | 5/7           |               |
| KCLW         | 14,00                      | 22,00            | 5/7           |               |
| SB           | 14,00                      | 22,00            | 5,00          | GD            |
| KCLW         | 14,00                      | 22,00            | 6/7           |               |
| SCY          | 14,00                      | 22,00            | 7,3/10,2      | SS            |
| VCY          | 14,00                      | 22,40            | 5,5/7         |               |
| SCY          | 14,00                      | 23,80            | 5,1/7,1       | ND            |
| VCY          | 14,00                      | 24,00            | 3,50          |               |
| KC           | 14,00                      | 24,00            | 4,00          |               |
| VCY          | 14,00                      | 24,00            | 4,5/6         |               |
| HTCL         | 14,00                      | 24,00            | 6,00          |               |
| HTCL         | 14,00                      | 24,00            | 6,00          |               |
| KC           | 14,00                      | 24,00            | 6,00          |               |
| SB           | 14,00                      | 24,00            | 6,00          | GD            |
| TB           | 14,00                      | 24,00            | 6,00          | GD            |
| TB           | 14,00                      | 24,00            | 7,00          | GD            |
| TC4          | 14,00                      | 24,00            | 7,00          |               |
| TC5YW        | 14,00                      | 24/30            | 8/10          |               |
| DC5AY        | 14,00                      | 24,00            | 10/12,5       | SS            |
| DC5          | 14,00                      | 24,00            | 10,50         | SS            |
| SC5YW        | 14,00                      | 24/30            | 14/15         |               |
| TB           | 14,00                      | 25,00            | 7,00          | GD            |
| TC3          | 14,00                      | 25,00            | 7,00          | SS            |
| TC3A         | 14,00                      | 25,00            | 7/8,5         | SS            |
| TC45         | 14,00                      | 25/31            | 14/17,5       |               |
| TC45         | 14,00                      | 25/31            | 16,00         |               |
| TC45         | 14,00                      | 25/30            | 18/22         |               |
| TC45         | 14,00                      | 25/26            | 19,00         |               |
| TC45         | 14,00                      | 25/31            | 24,00         |               |
| VP           | 14,00                      | 25,20            | 5,00          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| VCY          | 14,00                      | 26,00            | 3,50          |               |
| KAT          | 14,00                      | 26,00            | 8/11,5        | ND            |
| VBV          | 14,00                      | 26,00            | 9/12,5        | ND            |
| DC           | 14,00                      | 26,00            | 9,50          | SS            |
| SB5          | 14,00                      | 26/31            | 12,00         | ND            |
| VCY          | 14,00                      | 27,00            | 6/7           |               |
| TCAT         | 14,00                      | 27/28            | 9/10,5        |               |
| VCY          | 14,00                      | 27/28            | 9/10,5        |               |
| OVY          | 14,00                      | 27,50            | 6,50          | ND            |
| PY           | 14,00                      | 28,00            | 4/6,5         |               |
| SB2          | 14,00                      | 28,00            | 7,00          | GD            |
| TC4          | 14,00                      | 28,00            | 7,00          |               |
| TCA          | 14,00                      | 28,00            | 7/8,5         | SS            |
| TB2          | 14,00                      | 28,00            | 8,00          | GD            |
| TC4          | 14,00                      | 28,00            | 13,40         |               |
| VCY          | 14,00                      | 29,00            | 6/7           |               |
| TC4P         | 14,00                      | 30,00            | 4/8,7         |               |
| KC2Y         | 14,00                      | 30/38            | 7,00          |               |
| TCA          | 14,00                      | 30,00            | 7,5/8,5       |               |
| KC2Y         | 14,00                      | 30/40,5          | 8,50          |               |
| SCY          | 14,00                      | 30,23            | 3,5/4         | ND            |
| SAT          | 14,00                      | 31,30            | 7,70          | ND            |
| Y            | 14,00                      | 31,3/32          | 13,50         | ND            |
| TC4          | 14,00                      | 31,90            | 13,40         |               |
| DC           | 14,00                      | 32,00            | 7,00          |               |
| TB2          | 14,00                      | 32,00            | 7,00          | GD            |
| TCY          | 14,00                      | 32,00            | 7,00          |               |
| TCA          | 14,00                      | 32,00            | 7,5/8,5       |               |
| TC4P2        | 14,00                      | 35,00            | 3,4/9,5       |               |
| TC4P2        | 14,00                      | 40,50            | 4,3/10        |               |
| TC4P2        | 14,00                      | 40,80            | 4,3/10        |               |
| TC4P2        | 14,00                      | 42,50            | 4/11          |               |
| SB2          | 14,06                      | 25,37            | 6,40          | SSSGD         |
| BO-3         | 14,10                      | 22,00            | 3,20          |               |
| TB2          | 14,27                      | 28,55            | 6,40          | P0            |
| VBV          | 14,28                      | 24,28            | 4,50          | ND            |
| VCY          | 14,28                      | 24,80            | 3,9/7,3       |               |
| SBR          | 14,28                      | 27,00            | 4,50          | ND            |
| SAVT         | 14,28                      | 28,58            | 6,40          | P2            |
| SCY          | 14,29                      | 19,05            | 3,2/5,3       |               |
| TB           | 14,29                      | 25,37            | 6,40          | GD            |
| TB           | 14,29                      | 25,40            | 6,40          | GD            |
| TB2J         | 14,29                      | 25,40            | 6,40          | GD            |
| TA2          | 14,29                      | 25,40            | 9,50          | GD            |
| TB23         | 14,29                      | 28,58            | 6,40          | P2            |
| TA2          | 14,29                      | 28,58            | 11,90         | GD            |
| KA2          | 14,29                      | 28,58            | 13,50         | ND            |
| TB2I         | 14,29                      | 31,75            | 6,40          | GD            |
| VBV          | 14,29                      | 33,99            | 4,06          | ND            |
| OVY          | 14,30                      | 19,84            | 2,30          |               |
| OVY          | 14,30                      | 19,84            | 2,30          | ND            |
| VBR          | 14,30                      | 20,64            | 4,80          | ND            |
| SB           | 14,30                      | 25,37            | 6,40          | SSP2          |
| SB           | 14,30                      | 25,37            | 6,40          | SSP2          |
| TBR          | 14,30                      | 25,50            | 6,40          | GD            |
| V            | 14,30                      | 28,60            | 1,20          |               |
| VY           | 14,30                      | 28,80            | 2/8           |               |
| VAJY         | 14,30                      | 29,85            | 9,70          |               |
| TB2          | 14,30                      | 35,00            | 6,40          | P2            |
| VP           | 14,50                      | 21,00            | 3,00          |               |
| OKC          | 14,50                      | 22,00            | 7,00          |               |
| VP           | 14,50                      | 25,00            | 5,5/7         |               |
| TB2Y         | 14,50                      | 26,00            | 6/6,7         | ND            |
| KB2Y         | 14,50                      | 32/38            | 6,30          | P1            |
| DB           | 14,66                      | 28,55            | 8,00          | P2            |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| BO-1Y        | 14,70                      | 22,00            | 1,50          |               |
| VCY          | 14,80                      | 28,80            | 6/7           |               |
| TCA          | 14,80                      | 30,00            | 7,5/8,5       |               |
| VCY          | 14,80                      | 32,00            | 5,5/7         |               |
| TC40         | 14,80                      | 32,00            | 7,00          |               |
| TCA          | 14,80                      | 32,00            | 7,5/8,5       |               |
| TCA          | 14,80                      | 35,00            | 7,5/9         |               |
| TB2          | 14,99                      | 34,98            | 4,80          | NDRD          |
| SB           | 15,00                      | 20,00            | 3,00          | GD            |
| KB           | 15,00                      | 20,00            | 5,00          | GD            |
| OVY          | 15,00                      | 20/27            | 7,40          |               |
| KB           | 15,00                      | 21,00            | 3,00          | NDLF          |
| TBR          | 15,00                      | 21,00            | 4,20          | GD            |
| TB           | 15,00                      | 21,00            | 5/7           | ND            |
| TBR          | 15,00                      | 21,00            | 5/7           | GD            |
| TBR          | 15,00                      | 21,00            | 6,00          | GD            |
| PY           | 15,00                      | 21,5/35,5        | 5,4/11,5      |               |
| SB2          | 15,00                      | 22,00            | 4,00          | POH           |
| TB           | 15,00                      | 22,00            | 4,00          | ND            |
| KCW          | 15,00                      | 23,00            | 4,00          |               |
| OVY          | 15,00                      | 23,00            | 6,00          |               |
| XICY2        | 15,00                      | 24/28,8          | 4/9,3         |               |
| KC           | 15,00                      | 24,00            | 5,00          | GRLF          |
| KCLW         | 15,00                      | 24,00            | 5/7           |               |
| TC4W         | 15,00                      | 24,00            | 5,00          |               |
| TC4W         | 15,00                      | 24,00            | 5,00          |               |
| TC4          | 15,00                      | 24,00            | 5,50          |               |
| OVY          | 15,00                      | 24,00            | 6,50          |               |
| DB           | 15,00                      | 24,00            | 7,00          | GD            |
| DC           | 15,00                      | 24,00            | 7,00          |               |
| SB           | 15,00                      | 24,00            | 7,00          | GD            |
| TB           | 15,00                      | 24,00            | 7,00          | GD            |
| KC           | 15,00                      | 25,00            | 3,00          |               |
| SB           | 15,00                      | 25,00            | 5,00          | ND            |
| KC           | 15,00                      | 25,00            | 6,00          |               |
| SB           | 15,00                      | 25,00            | 6,00          | GD            |
| TC5          | 15,00                      | 25/29            | 6,50          | SS            |
| HSCL         | 15,00                      | 25,00            | 7,00          |               |
| TB           | 15,00                      | 25,00            | 7,00          | GD            |
| TCY          | 15,00                      | 25,40            | 5/7           |               |
| TBR          | 15,00                      | 25,50            | 6,50          | GD            |
| KCY          | 15,00                      | 26,00            | 3/3,5         |               |
| TB2          | 15,00                      | 26,00            | 4,00          | ND            |
| TB2P         | 15,00                      | 26,00            | 4/4,5         | ND            |
| TC7          | 15,00                      | 26,00            | 5/10          |               |
| TC7          | 15,00                      | 26,00            | 5/10          |               |
| KC           | 15,00                      | 26,00            | 6,00          |               |
| TB           | 15,00                      | 26,00            | 6/6,5         | GD            |
| KB2Y         | 15,00                      | 26/35            | 7,00          | P1            |
| SB2          | 15,00                      | 26,00            | 7,00          | ND            |
| SB2          | 15,00                      | 26,00            | 7,00          | GD            |
| SCI          | 15,00                      | 26,00            | 7,00          |               |
| SCW          | 15,00                      | 26,00            | 7,00          | LF            |
| TB           | 15,00                      | 26,00            | 7,00          | ND            |
| SB           | 15,00                      | 26,00            | 9,00          | GD            |
| VCY          | 15,00                      | 27,00            | 6/7           |               |
| TCY          | 15,00                      | 28,00            | 5/5,5         |               |
| VCY          | 15,00                      | 28,00            | 5,5/7         | GR            |
| SC2          | 15,00                      | 28,00            | 6,00          | SS            |
| SB           | 15,00                      | 28,00            | 7,00          | GD            |
| TC5          | 15,00                      | 28/31            | 8,00          |               |
| DC           | 15,00                      | 28,00            | 10,00         |               |
| TB           | 15,00                      | 29,60            | 4,00          | GD            |
| VB2          | 15,00                      | 30,00            | 5,00          | GD            |
| TB2V         | 15,00                      | 30,00            | 5,5/5,9       | POH           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| DB           | 15,00                      | 30,00               | 7,00             | GD            |
| DC           | 15,00                      | 30,00               | 7,00             |               |
| SB2          | 15,00                      | 30,00               | 7,00             | GD            |
| TB           | 15,00                      | 30,00               | 7,00             | GD            |
| TC40         | 15,00                      | 30,00               | 7,00             |               |
| TCA          | 15,00                      | 30,00               | 7,5/8,5          |               |
| HTBY         | 15,00                      | 30,00               | 8,00             | SSGD          |
| TB2          | 15,00                      | 30,00               | 8,00             | GD            |
| KC2Y         | 15,00                      | 30/40,5             | 8,50             |               |
| VBY          | 15,00                      | 30,00               | 13,00            | ND            |
| VC6Y         | 15,00                      | 31,00               | 5/9,5            |               |
| KB2Y         | 15,00                      | 31/36               | 6,50             | P1            |
| SBY          | 15,00                      | 31,50               | 3,50             | ND            |
| DC           | 15,00                      | 32,00               | 7,00             |               |
| TC42W        | 15,00                      | 32,00               | 7,00             | SSSGR         |
| TC57         | 15,00                      | 32/38               | 7/13             | SSSGR1        |
| TCA          | 15,00                      | 32,00               | 7,5/9            | GR            |
| KB2Y         | 15,00                      | 32/40               | 10,00            | P1            |
| TCY          | 15,00                      | 32,15               | 7,00             |               |
| SB2          | 15,00                      | 35,00               | 5,00             | SSSGDRD       |
| KB5          | 15,00                      | 35/41               | 7,00             | SUSNDGR       |
| SB2          | 15,00                      | 35,00               | 7,00             | ND            |
| TB           | 15,00                      | 35,00               | 7,00             | GD            |
| VCY          | 15,00                      | 35,00               | 7/8              |               |
| TCY          | 15,00                      | 35,00               | 15,00            |               |
| TCY          | 15,00                      | 36,00               | 5,50             |               |
| DC           | 15,00                      | 36,47               | 8,00             |               |
| HTC          | 15,00                      | 36,47               | 8,00             |               |
| HTC          | 15,00                      | 36,47               | 8,00             |               |
| TB2I         | 15,00                      | 37,00               | 7,00             | GD            |
| Y            | 15,00                      | 37,00               | 22,00            |               |
| TC4P         | 15,00                      | 38,90               | 3,25/9,5         |               |
| TC4P         | 15,00                      | 39,00               | 3,5/10,5         |               |
| SCF          | 15,00                      | 42,00               | 10,00            | SS            |
| TC4L         | 15,00                      | 42,60               | 12/14,5          |               |
| DC4P3        | 15,00                      | 44,00               | 4,1/9            |               |
| Y            | 15,00                      | 44,00               | 26,20            |               |
| YA           | 15,00                      | 44,00               | 27,00            | ND            |
| VB2          | 15,06                      | 23,81               | 4,80             | P5            |
| TB2          | 15,06                      | 34,93               | 7,90             | P2            |
| TB2          | 15,08                      | 28,55               | 7,90             | P2            |
| SB2          | 15,09                      | 28,55               | 7,90             | P2            |
| VBR          | 15,10                      | 26,62               | 4,80             | GD            |
| SCY          | 15,10                      | 27,20               | 7,5/4,7          |               |
| SAFE         | 15,10                      | 28,58               | 11,10            | GD            |
| VY           | 15,24                      | 32,00               | 3,20             |               |
| VY           | 15,24                      | 32,00               | 3,20             |               |
| PY           | 15,25                      | 28,50               | 3,5/6,6          |               |
| OV           | 15,30                      | 22,00               | 7,00             |               |
| TBY          | 15,47                      | 38,53               | 6,50             | SSP5          |
| SB           | 15,50                      | 23,50               | 5,50             | ND            |
| SB           | 15,50                      | 30,10               | 7,00             | GD            |
| VB2Y         | 15,50                      | 32/37               | 4,50             | P1            |
| VWY          | 15,50                      | 41,50               | 5,60             |               |
| BO-5         | 15,62                      | 30,30               | 1,27             |               |
| TC40         | 15,77                      | 26,01               | 6,40             |               |
| TC4Y         | 15,80                      | 30,50               | 6,6/12           |               |
| VBR          | 15,88                      | 20,64               | 2,40             | ND            |
| VBR          | 15,88                      | 22,13               | 4,30             | GD            |
| SB           | 15,88                      | 22,23               | 3,20             | P5RD          |
| SB           | 15,88                      | 22,23               | 3,20             | GD            |
| TBR          | 15,88                      | 22,23               | 3,20             | ND            |
| SCY          | 15,88                      | 22,23               | 4/6,4            |               |
| KCY          | 15,88                      | 23,65               | 4,6/6,4          |               |
| TB           | 15,88                      | 25,37               | 6,40             | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TBR          | 15,88                      | 25,37            | 6,40          | P5RD          |
| TBR          | 15,88                      | 25,37            | 6,40          | P5RD          |
| VBR          | 15,88                      | 25,40            | 3,20          | P5            |
| KC9Y         | 15,88                      | 25,40            | 6/7,9         |               |
| MGY          | 15,88                      | 25,40            | 6,40          | SS            |
| SB           | 15,88                      | 25,40            | 6,40          | P0            |
| SBV          | 15,88                      | 25,40            | 6,40          | P0            |
| SBV          | 15,88                      | 25,40            | 6,40          | P0            |
| TBR          | 15,88                      | 25,40            | 6,40          | GD            |
| TBR          | 15,88                      | 25,40            | 6,40          | P0            |
| TBR          | 15,88                      | 25,40            | 6,40          | GD            |
| TCF          | 15,88                      | 25,40            | 6,40          | SS            |
| SBCY         | 15,88                      | 25,60            | 4,8/6,7       | ND            |
| TB           | 15,88                      | 26,99            | 6,40          | ND            |
| SB           | 15,88                      | 28,54            | 4,80          | SSSGD         |
| SBA          | 15,88                      | 28,54            | 4,80          | SSSGD         |
| SB2          | 15,88                      | 28,55            | 6,40          | P2            |
| SBR2         | 15,88                      | 28,55            | 6,40          | P2            |
| TB2          | 15,88                      | 28,55            | 6,40          | P0            |
| TB21         | 15,88                      | 28,55            | 9,50          | P2            |
| KB2          | 15,88                      | 28,55            | 13,50         | NDRD          |
| SB2          | 15,88                      | 28,58            | 6,40          | P2            |
| SB2          | 15,88                      | 28,58            | 6,40          | P2            |
| SBP          | 15,88                      | 28,58            | 6,40          | P5            |
| TB2          | 15,88                      | 28,58            | 6,40          | P0            |
| TB2P         | 15,88                      | 28,58            | 6,40          | SSP5          |
| TBR          | 15,88                      | 28,58            | 6,40          | P2            |
| VB2J         | 15,88                      | 28,58            | 6,40          | ND            |
| DC           | 15,88                      | 28,58            | 7,90          |               |
| DC4          | 15,88                      | 28,58            | 7,90          |               |
| TB2          | 15,88                      | 28,58            | 7,90          | P2            |
| TC6          | 15,88                      | 28,58            | 7,90          |               |
| VBRV         | 15,88                      | 28,58            | 7,90          | ND            |
| SA2Y         | 15,88                      | 28,58            | 8,40          | SSSGD         |
| SB           | 15,88                      | 28,58            | 9,50          | P0            |
| TCAT         | 15,88                      | 28,58            | 9,50          | GR            |
| VCY          | 15,88                      | 28,58            | 9,50          | GR            |
| KA2          | 15,88                      | 28,58            | 13,50         | ND            |
| TBR          | 15,88                      | 31,50            | 6,40          | GD            |
| TBRV         | 15,88                      | 31,50            | 6,40          | GD            |
| SB2          | 15,88                      | 31,75            | 6,40          | SSP0          |
| SBR          | 15,88                      | 31,75            | 6,40          | SSND          |
| TB2          | 15,88                      | 31,75            | 6,40          | GD            |
| UPY          | 15,88                      | 31,75            | 7,20          | GD            |
| UPVT         | 15,88                      | 31,75            | 7,90          |               |
| SB2          | 15,88                      | 31,75            | 10,30         | GD            |
| SA2          | 15,88                      | 31,75            | 11,10         | GD            |
| SAVT         | 15,88                      | 34,93            | 6,40          | SSP3          |
| SB2          | 15,88                      | 34,93            | 6,40          | P2            |
| SB2          | 15,88                      | 34,93            | 6,40          | P2            |
| TB2          | 15,88                      | 34,93            | 6,40          | GD            |
| VB2          | 15,88                      | 34,93            | 6,40          | GD            |
| VB2          | 15,88                      | 34,93            | 6,40          | GD            |
| TA2          | 15,88                      | 34,93            | 7,90          | GD            |
| TB           | 15,88                      | 34,93            | 7,90          | GD            |
| KCY          | 15,88                      | 34,93            | 10,50         | ND            |
| SBI          | 15,88                      | 34,98            | 9,50          | ND            |
| SA2          | 15,88                      | 34,98            | 10,30         | ND            |
| TB2          | 15,88                      | 38,10            | 6,35          | P2            |
| SB2P         | 15,88                      | 38,10            | 7,90          | SSP5RD        |
| PY           | 15,88                      | 38,10            | 12,5/20,3     |               |
| VY           | 15,88                      | 39,69            | 3,20          |               |
| SB2          | 15,88                      | 39,69            | 9,50          | GD            |
| TB2          | 15,88                      | 40,00            | 7,90          | P2            |
| TB2          | 15,88                      | 44,50            | 7,90          | P2RD          |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br>Notes |
|--------------|-----------------------------------|----------------------------|-------------------------|---------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |               |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |               |
| DC           | 15,90                             | 35,00                      | 9,50                    |               |
| KC           | 16,00                             | 21,00                      | 4,00                    |               |
| TB           | 16,00                             | 21,00                      | 4,50                    | GD            |
| KC5          | 16,00                             | 22/28                      | 4,5/5,7                 | ND            |
| KC           | 16,00                             | 23,00                      | 3,00                    |               |
| TC45         | 16,00                             | 23/28                      | 14/18                   | ND            |
| VC7W         | 16,00                             | 24,00                      | 3,00                    |               |
| KC           | 16,00                             | 24,00                      | 4,00                    |               |
| SB           | 16,00                             | 24,00                      | 4,00                    | GD            |
| TB           | 16,00                             | 24,00                      | 4,00                    | GD            |
| VP           | 16,00                             | 24,00                      | 4,00                    |               |
| SCY          | 16,00                             | 24,00                      | 4,5/8,5                 | SSND          |
| KCW          | 16,00                             | 24,00                      | 5/7                     |               |
| KCLW         | 16,00                             | 24,00                      | 6/8                     |               |
| TB           | 16,00                             | 24,00                      | 6,00                    | GD            |
| DCW          | 16,00                             | 24,00                      | 7,00                    | SS            |
| SB           | 16,00                             | 24,00                      | 7,00                    | GD            |
| TBR          | 16,00                             | 24,00                      | 7,00                    | ND            |
| VP           | 16,00                             | 24,40                      | 3,50                    |               |
| HTBSYL       | 16,00                             | 24,89/56                   | 6,50                    | SSNDGR        |
| HTBSYL       | 16,00                             | 24,89/56                   | 6,50                    | SSNDGR        |
| TB           | 16,00                             | 25,00                      | 7,00                    | GD            |
| SB           | 16,00                             | 26,00                      | 7,00                    | GD            |
| TBR          | 16,00                             | 26,00                      | 7,00                    | GD            |
| Y            | 16,00                             | 26,00                      | 8/19                    | ND            |
| TCY          | 16,00                             | 27,00                      | 6/7,5                   |               |
| TC45         | 16,00                             | 27/33                      | 11/14                   |               |
| TC3Y         | 16,00                             | 28,00                      | 5,5/6,5                 | SS            |
| TBRY         | 16,00                             | 28,00                      | 6/15,2                  | ND            |
| TBRY         | 16,00                             | 28,00                      | 6/15,2                  | ND            |
| VBY          | 16,00                             | 28/31                      | 6,3/10                  |               |
| HTCR         | 16,00                             | 28,00                      | 7,00                    |               |
| SB           | 16,00                             | 28,00                      | 7,00                    | GD            |
| SC4          | 16,00                             | 28,00                      | 7,00                    |               |
| TB           | 16,00                             | 28,00                      | 7,00                    | SSGD          |
| TC3          | 16,00                             | 28,00                      | 7,00                    | SSSGR         |
| TCI          | 16,00                             | 28,00                      | 7,00                    |               |
| SCY          | 16,00                             | 28,00                      | 7,2/10                  | SS            |
| SBRY         | 16,00                             | 28,00                      | 15,00                   | ND            |
| Y            | 16,00                             | 29,00                      | 4/6,5                   |               |
| HTBRP        | 16,00                             | 30,00                      | 6,00                    | ND            |
| SC2          | 16,00                             | 30,00                      | 6,00                    | SS            |
| SB2          | 16,00                             | 30,00                      | 6,40                    | GD            |
| DC           | 16,00                             | 30,00                      | 7,00                    |               |
| HTCL         | 16,00                             | 30,00                      | 7,00                    |               |
| TB           | 16,00                             | 30,00                      | 7,00                    | GD            |
| TB2          | 16,00                             | 30,00                      | 7,00                    | GD            |
| TC5Y         | 16,00                             | 30/42                      | 7/11                    |               |
| TCA          | 16,00                             | 30,00                      | 7,5/8,5                 | GR            |
| KB2          | 16,00                             | 30,00                      | 8,00                    | GD            |
| KC           | 16,00                             | 30,00                      | 8,00                    |               |
| TBR          | 16,00                             | 30,00                      | 8,00                    | GD            |
| TC3Y         | 16,00                             | 30,00                      | 10,00                   | SS            |
| VCY          | 16,00                             | 31,00                      | 7,00                    |               |
| SB           | 16,00                             | 32,00                      | 7,00                    | GD            |
| TBI          | 16,00                             | 32,00                      | 7,00                    | GD            |
| DC4Y         | 16,00                             | 32,00                      | 10/15                   |               |
| KB2Y         | 16,00                             | 33/40                      | 8,00                    | P1            |
| KC2Y         | 16,00                             | 34/40                      | 8,00                    |               |
| VC2Y         | 16,00                             | 34,5/43                    | 10,00                   |               |
| TC4P         | 16,00                             | 35,00                      | 3,2/10                  |               |
| VY           | 16,00                             | 35,00                      | 5,00                    |               |
| SCI          | 16,00                             | 35,00                      | 7,00                    |               |
| SCJ          | 16,00                             | 35,00                      | 7,00                    | SS            |
| HSBRR        | 16,00                             | 36,00                      | 6,50                    | SSGD          |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TC4          | 16,00                      | 36,00            | 12/12,5       |               |
| TC4          | 16,00                      | 36,00            | 12/12,5       |               |
| KCY          | 16,00                      | 36,50            | 7/11          |               |
| TC4P2        | 16,00                      | 39,00            | 3,4/9,5       |               |
| SL           | 16,00                      | 39,00            | 9,00          | SUSND         |
| TC4P         | 16,00                      | 57,00            | 3/10          |               |
| VB5Y         | 16,31                      | 20,75            | 5,44          | ND            |
| SL           | 16,50                      | 19,5/33          | 10,5/13,5     | SUSGDGR1      |
| SL           | 16,50                      | 19,5/33          | 10,5/13,5     | SUSGDGR       |
| KC           | 16,50                      | 23,00            | 5,00          |               |
| TBR          | 16,50                      | 31,00            | 7,00          | GD            |
| KBC          | 16,50                      | 44,50            | 5,00          | SUSND         |
| KBC          | 16,50                      | 44,50            | 5,00          | SUSND         |
| TCI          | 16,51                      | 31,75            | 6,40          |               |
| SB           | 16,66                      | 31,75            | 6,40          | P5RD          |
| SB           | 16,66                      | 31,75            | 6,40          | P5RD          |
| SB2          | 16,70                      | 28,55            | 7,90          | P2            |
| SB2          | 16,70                      | 34,93            | 6,40          | GD            |
| SB           | 16,70                      | 40,00            | 6,40          | ND            |
| DC           | 16,80                      | 33,00            | 9,50          |               |
| SB5          | 16,80                      | 35/40            | 5,50          | ND            |
| TBR          | 16,89                      | 29,00            | 8,00          | NDGR          |
| HTC          | 16,90                      | 47,00            | 5,00          | SS            |
| SB           | 16,99                      | 27,00            | 6,40          | ND            |
| SA2          | 16,99                      | 30,16            | 4,70          | GD            |
| VBY          | 17,00                      | 21,00            | 2,50          | ND            |
| PY           | 17,00                      | 22,00            | 2,50          |               |
| KC           | 17,00                      | 23,00            | 3,00          |               |
| KC           | 17,00                      | 23,00            | 4,00          |               |
| KC           | 17,00                      | 24,00            | 2,50          |               |
| KC           | 17,00                      | 24,00            | 3,00          |               |
| KCS          | 17,00                      | 24/30            | 3,50          |               |
| KC           | 17,00                      | 24,00            | 4,00          |               |
| XICY2        | 17,00                      | 24/28,8          | 4/9,3         |               |
| KC           | 17,00                      | 24,00            | 5,00          | LF            |
| KCS          | 17,00                      | 24/30            | 5,70          |               |
| KC           | 17,00                      | 24,00            | 6,00          |               |
| KB           | 17,00                      | 25,00            | 5,00          | GD            |
| KBR          | 17,00                      | 25,00            | 12,00         | ND            |
| KCS          | 17,00                      | 25,6/29,5        | 4,2/5         |               |
| VCY          | 17,00                      | 26,00            | 4/5           |               |
| VP           | 17,00                      | 26,00            | 4,30          |               |
| VBCY         | 17,00                      | 26,00            | 5,00          | ND            |
| TB           | 17,00                      | 26,00            | 7,00          | GD            |
| HTCL         | 17,00                      | 27,00            | 5,00          |               |
| VCY          | 17,00                      | 27,00            | 5,00          |               |
| TCJ          | 17,00                      | 27,00            | 6,00          |               |
| TCW          | 17,00                      | 27,00            | 6,00          |               |
| KC45         | 17,00                      | 27/33            | 9/10          |               |
| SB           | 17,00                      | 28,00            | 5,00          | GD            |
| TB2P         | 17,00                      | 28,00            | 5,00          | ND            |
| TC7          | 17,00                      | 28,00            | 5/10          |               |
| HTCSL        | 17,00                      | 28/32            | 5,50          |               |
| KC           | 17,00                      | 28,00            | 6,00          | GRLF          |
| SB           | 17,00                      | 28,00            | 6,00          | GD            |
| TB           | 17,00                      | 28,00            | 6,00          | GD            |
| TCWJ         | 17,00                      | 28,00            | 6,00          |               |
| DB           | 17,00                      | 28,00            | 6,50          | GD            |
| DB           | 17,00                      | 28,00            | 7,00          | GD            |
| DC           | 17,00                      | 28,00            | 7,00          |               |
| HSBYR        | 17,00                      | 28,00            | 7/13          | GD            |
| HTCR         | 17,00                      | 28,00            | 7,00          |               |
| SB           | 17,00                      | 28,00            | 7,00          | GD            |
| SCJ          | 17,00                      | 28,00            | 7,00          |               |
| TB           | 17,00                      | 28,00            | 7,00          | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TB2          | 17,00                      | 28,00            | 7,00          | ND            |
| TBCWP        | 17,00                      | 28,00            | 7,30          | SSND          |
| SCI          | 17,00                      | 28,00            | 7,55          | SS            |
| DB           | 17,00                      | 28,00            | 8,00          | GD            |
| DC           | 17,00                      | 28,00            | 8,00          | SS            |
| OVY          | 17,00                      | 28,00            | 8,50          |               |
| DC           | 17,00                      | 28,50            | 7,00          |               |
| DB           | 17,00                      | 28,50            | 8,00          | GD            |
| TA2          | 17,00                      | 28,50            | 10,00         | ND            |
| VBRYI        | 17,00                      | 29,00            | 5,70          | ND            |
| KC4Y         | 17,00                      | 30,00            | 6/8           |               |
| SC2          | 17,00                      | 30,00            | 6,00          | SS            |
| TB           | 17,00                      | 30,00            | 6,00          | GD            |
| DC           | 17,00                      | 30,00            | 7,00          |               |
| SB2          | 17,00                      | 30,00            | 7,00          | P2            |
| SB2          | 17,00                      | 30,00            | 7,00          | P2LF          |
| SCXS         | 17,00                      | 30,00            | 7,00          |               |
| TB           | 17,00                      | 30,00            | 7,00          | GD            |
| TB2          | 17,00                      | 30,00            | 7,00          | GD            |
| TCA          | 17,00                      | 30,00            | 7/8           | GR            |
| TCY          | 17,00                      | 30,00            | 7/8           |               |
| TA2          | 17,00                      | 30,00            | 8,00          | GD            |
| TCS          | 17,00                      | 30/37            | 8,00          | SS            |
| TC5A         | 17,00                      | 30/37            | 8,00          | SS            |
| DC           | 17,00                      | 30,00            | 9,00          |               |
| SBY          | 17,00                      | 31,00            | 3,50          |               |
| TBR          | 17,00                      | 31,00            | 7,80          | GD            |
| HTBRR        | 17,00                      | 31,70            | 6,40          | ND            |
| HTBRR        | 17,00                      | 31,70            | 6,40          | ND            |
| VB2          | 17,00                      | 31,75            | 6,40          | GD            |
| DCY          | 17,00                      | 31,75            | 7/12          | SS            |
| HTB2         | 17,00                      | 31,90            | 3,60          | ND            |
| SCF          | 17,00                      | 32,00            | 6,00          | SS            |
| SCA          | 17,00                      | 32,00            | 7,00          | GR            |
| TB2          | 17,00                      | 32,00            | 7,00          | GDRD          |
| DC           | 17,00                      | 32,00            | 8,00          |               |
| TC3          | 17,00                      | 32,00            | 8,00          | SS            |
| TC5          | 17,00                      | 32/38            | 8/9           |               |
| DC4Y         | 17,00                      | 32,00            | 9/14          | SS            |
| TB           | 17,00                      | 32,00            | 9,00          | GD            |
| PY           | 17,00                      | 32,00            | 23,00         |               |
| HTB2         | 17,00                      | 32,90            | 3,60          | ND            |
| DB           | 17,00                      | 33,00            | 7,00          | GD            |
| SB2          | 17,00                      | 33,00            | 7,00          | ND            |
| TB           | 17,00                      | 33,00            | 7,00          | GD            |
| SB2          | 17,00                      | 33,00            | 8,00          | GD            |
| TB           | 17,00                      | 34,00            | 4,00          | GD            |
| SB           | 17,00                      | 34,00            | 4,50          | GD            |
| TBRV         | 17,00                      | 34,00            | 7,90          | GD            |
| TB           | 17,00                      | 34,00            | 8,00          | GD            |
| TBRV         | 17,00                      | 34,00            | 8,00          | ND            |
| VY           | 17,00                      | 35,00            | 5,00          |               |
| SB2          | 17,00                      | 35,00            | 7,00          | SSPSRD        |
| TC5          | 17,00                      | 35/43            | 7/8           |               |
| SB2          | 17,00                      | 35,00            | 8,00          | GD            |
| TB2V         | 17,00                      | 35,00            | 8,00          | GD            |
| DCY          | 17,00                      | 35,00            | 9,00          | SS            |
| KB2Y         | 17,00                      | 36/44            | 8,00          | P1            |
| KB2Y         | 17,00                      | 38/44            | 8,00          | P1            |
| TB           | 17,00                      | 39,90            | 5,00          | GD            |
| BE           | 17,00                      | 40,00            | 2,80          | ND            |
| HTCR         | 17,00                      | 40,00            | 5,00          |               |
| TB           | 17,00                      | 40,00            | 5,00          | GD            |
| TB2          | 17,00                      | 40,00            | 6,00          | GD            |
| VB2J         | 17,00                      | 40,00            | 6,40          | ND            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| DC           | 17,00                      | 40,00            | 7,00          |               |
| SB2          | 17,00                      | 40,00            | 10,00         | ND            |
| TCL          | 17,00                      | 42,00            | 9,5/12,5      |               |
| SC2          | 17,00                      | 47,00            | 7,00          | SS            |
| Y            | 17,00                      | 49,00            | 8,5/24,5      |               |
| TCW          | 17,45                      | 30,00            | 6,00          | SS            |
| VB5          | 17,46                      | 25,4/30          | 5,6/6,8       | ND            |
| SC4P         | 17,46                      | 25,40            | 6,20          | SSS           |
| SC4P         | 17,46                      | 25,40            | 6,20          | SSS           |
| SB           | 17,46                      | 26,99            | 4,80          | ND            |
| DC           | 17,46                      | 28,58            | 7,90          |               |
| TB           | 17,46                      | 28,68            | 7,90          | P0            |
| TB           | 17,46                      | 28,68            | 7,90          | P0            |
| SBR          | 17,46                      | 29,36            | 6,40          | ND            |
| SB2          | 17,46                      | 30,16            | 4,80          | P2            |
| TC4          | 17,46                      | 30,16            | 6,40          |               |
| SB           | 17,46                      | 31,72            | 6,40          | SSSGD         |
| SBA          | 17,46                      | 31,72            | 6,40          | SSSGD         |
| HTBRR        | 17,46                      | 31,75            | 6,40          | ND            |
| HTCR         | 17,46                      | 31,75            | 6,40          |               |
| TBR          | 17,46                      | 31,75            | 6,40          | GD            |
| SBR          | 17,46                      | 31,75            | 7,90          | ND            |
| HSBRPR       | 17,46                      | 35,72            | 6,40          | SSND          |
| KCY          | 17,50                      | 26,00            | 5,00          |               |
| TC40         | 17,50                      | 27,50            | 7,00          |               |
| HTCWL        | 17,50                      | 31,00            | 6,00          | SS            |
| TC4P         | 17,50                      | 32,50            | 3/8,5         |               |
| HTCL         | 17,50                      | 33,00            | 6,00          | SS            |
| VC2Y         | 17,50                      | 34/40            | 6,00          |               |
| VB5Y         | 17,53                      | 25,37/30         | 7,00          | ND            |
| TC4L         | 17,60                      | 32,00            | 7/7,5         | GR            |
| S            | 17,70                      | 22,00            | 7,00          |               |
| VBY          | 17,80                      | 29,00            | 5,5/7         | ND            |
| SCA          | 17,80                      | 34,00            | 9,50          | SS            |
| VBRY         | 17,90                      | 35,94            | 3,80          | ND            |
| OVY          | 17,91                      | 27,00            | 3,20          |               |
| KC           | 18,00                      | 23,00            | 4,00          |               |
| KC           | 18,00                      | 24,00            | 3,50          |               |
| XICY2        | 18,00                      | 24/28,8          | 4/9,3         |               |
| KC5          | 18,00                      | 24/30            | 5,70          |               |
| KC           | 18,00                      | 24,00            | 6,00          |               |
| PY           | 18,00                      | 25,00            | 1,75          |               |
| TB           | 18,00                      | 25,00            | 4,00          | GD            |
| KCW          | 18,00                      | 25,00            | 5/7           |               |
| KC           | 18,00                      | 26,00            | 4,00          |               |
| KCLW         | 18,00                      | 26,00            | 6/8           |               |
| KCY          | 18,00                      | 26,00            | 6/7,5         |               |
| TB2          | 18,00                      | 26,40            | 3,80          | ND            |
| KC           | 18,00                      | 27,00            | 4,00          |               |
| KC45         | 18,00                      | 27/33            | 9/10          |               |
| S            | 18,00                      | 28,00            | 1,3/10        |               |
| TCCY         | 18,00                      | 28,00            | 5,5/7,6       | SS            |
| SC2          | 18,00                      | 28,00            | 6,00          | SS            |
| SCY          | 18,00                      | 28,00            | 7/10          | SS            |
| TB           | 18,00                      | 28,00            | 7,00          | GD            |
| TB           | 18,00                      | 28,00            | 8,00          | GD            |
| SB           | 18,00                      | 28,50            | 5/6           | SSP5          |
| TB           | 18,00                      | 29,60            | 4,00          | GD            |
| HTCR         | 18,00                      | 30,00            | 5,00          |               |
| DKI          | 18,00                      | 30,00            | 6/9           | ND            |
| TC4          | 18,00                      | 30,00            | 6,00          |               |
| TCJ          | 18,00                      | 30,00            | 6,00          |               |
| TCL          | 18,00                      | 30,00            | 6/7           |               |
| VCY          | 18,00                      | 30,00            | 6/8           |               |
| TC4L         | 18,00                      | 30,00            | 6,4/7         |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TCL          | 18,00                      | 30,00            | 6,4/8         |               |
| DC           | 18,00                      | 30,00            | 7,00          |               |
| HTCR         | 18,00                      | 30,00            | 7,00          |               |
| TB2          | 18,00                      | 30,00            | 7,00          | GD            |
| TBR          | 18,00                      | 30,00            | 7,00          | GD            |
| TC40         | 18,00                      | 30,00            | 7/8           |               |
| DCP          | 18,00                      | 30,00            | 8,00          | SS            |
| SBR          | 18,00                      | 30,00            | 8,00          | GD            |
| TB2          | 18,00                      | 30,00            | 8,00          | GD            |
| TBY          | 18,00                      | 30,00            | 8/8,5         | GD            |
| TC40         | 18,00                      | 30,00            | 8,00          |               |
| DC4Y         | 18,00                      | 30,00            | 10/15         |               |
| DC4Y         | 18,00                      | 31,00            | 10/15         | SS            |
| SCW          | 18,00                      | 32,00            | 4,70          |               |
| TC7          | 18,00                      | 32,00            | 5/8           |               |
| VCY          | 18,00                      | 32,00            | 5/5,5         |               |
| VCY          | 18,00                      | 32,00            | 5,00          |               |
| TBC45        | 18,00                      | 32/39            | 6,5/9         | SSND          |
| TBC45A       | 18,00                      | 32/39            | 6,5/9         | SSND          |
| DC           | 18,00                      | 32,00            | 7,00          |               |
| TB           | 18,00                      | 32,00            | 7,00          | GD            |
| TCJ          | 18,00                      | 32,00            | 7,00          |               |
| SCJ          | 18,00                      | 32,00            | 8,00          |               |
| TBR          | 18,00                      | 32,00            | 8,00          | GD            |
| TCA          | 18,00                      | 32,00            | 8,00          |               |
| DC4Y         | 18,00                      | 32,00            | 10/15         | SS            |
| DC4Y         | 18,00                      | 32,00            | 10/15         | SS            |
| TC45         | 18,00                      | 32/38            | 13,00         |               |
| TC45         | 18,00                      | 32/38            | 13,20         |               |
| TC45         | 18,00                      | 32/37,8          | 20,50         |               |
| TC7          | 18,00                      | 32,10            | 5/8           |               |
| SCY          | 18,00                      | 32,50            | 8,00          |               |
| TCLY         | 18,00                      | 32,70            | 3,4/8,7       |               |
| DC4Y         | 18,00                      | 33,00            | 10/15         | SS            |
| TCF          | 18,00                      | 34,00            | 6,00          | SS            |
| TBR          | 18,00                      | 34,00            | 8,00          | GD            |
| TBR          | 18,00                      | 34,00            | 8,00          | ND            |
| DC4Y         | 18,00                      | 34,00            | 10/15         |               |
| VY           | 18,00                      | 35,00            | 2,6/3,6       |               |
| DC4P         | 18,00                      | 35,00            | 4,5/12        | SS            |
| DC4P         | 18,00                      | 35,00            | 4,5/12        | SS            |
| KB2Y         | 18,00                      | 35/42            | 6,00          | ND            |
| HTCR         | 18,00                      | 35,00            | 7,00          |               |
| TCWJ         | 18,00                      | 35,00            | 7,00          |               |
| Y            | 18,00                      | 37,00            | 21,50         |               |
| KC4Y         | 18,00                      | 38,00            | 5/10          |               |
| LPH          | 18,00                      | 39,00            | 5/6           |               |
| HSCW         | 18,00                      | 40,00            | 7/6           | SS            |
| DC4P2        | 18,00                      | 41,50            | 9,8/13,6      |               |
| TC4P         | 18,00                      | 41,50            | 10,50         |               |
| TC4P         | 18,00                      | 44,50            | 10,50         |               |
| Y            | 18,00                      | 49,00            | 27,00         |               |
| PY           | 18,00                      | 50,00            | 5/6,3         |               |
| VBP          | 18,25                      | 25,80            | 5,40          | SUSND         |
| VBP          | 18,25                      | 25,80            | 5,40          | SUSND         |
| TB2          | 18,25                      | 31,75            | 6,40          | PORD          |
| SB2          | 18,25                      | 31,75            | 6,70          | ND            |
| SBRV         | 18,26                      | 31,75            | 7,90          | SSSGD         |
| VY           | 18,26                      | 34,93            | 3,20          |               |
| TA2          | 18,26                      | 34,93            | 8,90          | GD            |
| VBY          | 18,30                      | 38,10            | 6,40          | P2            |
| TB2          | 18,40                      | 26,40            | 3,60          | ND            |
| PY           | 18,50                      | 26,00            | 2,70          |               |
| TC4Y         | 18,50                      | 38,00            | 7/8           |               |
| SAVT         | 18,67                      | 34,82            | 9,50          | SSPOH         |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TC4L         | 18,70                      | 29,00            | 4,5/5,5       |               |
| TC4Y         | 18,70                      | 30,00            | 5/7           |               |
| SCJ          | 18,70                      | 34,00            | 5,00          |               |
| TCY          | 18,70                      | 34,93            | 6,00          |               |
| TC4L         | 18,70                      | 35,00            | 7/7,5         |               |
| TC4Y         | 18,75                      | 29,00            | 7/7,8         |               |
| TC4Y         | 18,75                      | 30,00            | 5/5,5         |               |
| SBR          | 18,90                      | 27,00            | 4,80          | ND            |
| HTCL         | 18,90                      | 30,00            | 5,00          |               |
| SCY          | 18,90                      | 34,75            | 8,00          | SS            |
| SB2V         | 18,95                      | 31,75            | 4,80          | GDRD          |
| VAY          | 18,97                      | 47,63            | 6,40          | ND            |
| BU           | 19,00                      | 22,50            | 10,50         |               |
| KC           | 19,00                      | 23,50            | 6,00          |               |
| TC40         | 19,00                      | 25,00            | 6,00          |               |
| KC           | 19,00                      | 25,50            | 6,00          |               |
| KC           | 19,00                      | 26,00            | 3,00          |               |
| KC           | 19,00                      | 27,00            | 5,00          |               |
| VCY          | 19,00                      | 28,00            | 4/5           |               |
| TB           | 19,00                      | 28,50            | 5,00          | GD            |
| DCY          | 19,00                      | 28,50            | 8/12          | SSS           |
| TC4L         | 19,00                      | 29,00            | 4,3/5,5       |               |
| TC4L         | 19,00                      | 29,00            | 7/8           |               |
| TB           | 19,00                      | 30,00            | 7,00          | GD            |
| KC           | 19,00                      | 31,50            | 8,00          |               |
| TC4L         | 19,00                      | 32,00            | 6/7           |               |
| DC           | 19,00                      | 32,00            | 7,00          |               |
| SB           | 19,00                      | 32,00            | 7,00          | GD            |
| TC4L         | 19,00                      | 32,00            | 7/8           |               |
| TCW          | 19,00                      | 32,00            | 7,00          | GR            |
| HTCR         | 19,00                      | 32,00            | 8,00          |               |
| TB           | 19,00                      | 32,00            | 8,00          | GD            |
| TC4          | 19,00                      | 32,00            | 8,00          |               |
| TC42         | 19,00                      | 32,00            | 8,5/9,5       |               |
| KCY          | 19,00                      | 33,00            | 6,5/8,5       |               |
| TCSP         | 19,00                      | 33,5/45          | 6/10          |               |
| TC4L         | 19,00                      | 34,60            | 6/7           |               |
| TC4P         | 19,00                      | 35,00            | 2,2/7         | ND            |
| HTCYL        | 19,00                      | 35,00            | 5/6,5         |               |
| TC4Y         | 19,00                      | 35,00            | 5/5,5         |               |
| HTCL         | 19,00                      | 35,00            | 7,00          |               |
| TB2          | 19,00                      | 35,00            | 8,00          | GD            |
| VY           | 19,00                      | 35,50            | 4,00          |               |
| TBR          | 19,00                      | 36,00            | 6,00          | GD            |
| TC4L         | 19,00                      | 37,00            | 6,5/8,5       |               |
| HSB2R        | 19,00                      | 37,00            | 10,00         | ND            |
| SB           | 19,00                      | 37,00            | 10,00         | GD            |
| TC4L         | 19,00                      | 38,00            | 7/8           |               |
| SCJ          | 19,00                      | 42,00            | 7,00          |               |
| VCY          | 19,05                      | 23,81            | 3,20          |               |
| VCY          | 19,05                      | 23,81            | 3,20          |               |
| SB           | 19,05                      | 25,37            | 3,20          | ND            |
| VY           | 19,05                      | 25,37            | 4,00          |               |
| VY           | 19,05                      | 25,37            | 4,00          |               |
| VBJ          | 19,05                      | 25,40            | 2/2,5         | ND            |
| TCY          | 19,05                      | 25,40            | 3,2/3,8       | SS            |
| TCY          | 19,05                      | 25,40            | 3,2/3,8       | SS            |
| WKB          | 19,05                      | 25,40            | 3,20          | GD            |
| KBCW         | 19,05                      | 25,40            | 10,20         | ND            |
| KB5          | 19,05                      | 26,95/30,33      | 7,90          | ND            |
| KB5          | 19,05                      | 26,95/30,33      | 7,90          | ND            |
| SB           | 19,05                      | 26,99            | 4,80          | ND            |
| TB           | 19,05                      | 26,99            | 4,80          | GD            |
| SB           | 19,05                      | 28,55            | 4,80          | GD            |
| DC           | 19,05                      | 28,58            | 4,80          | GR            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| SB           | 19,05                      | 28,58               | 4,80             | SSSGD         |
| SBA          | 19,05                      | 28,58               | 4,80             | SSSGD         |
| SBR          | 19,05                      | 28,58               | 4,80             | GD            |
| SBR          | 19,05                      | 28,58               | 4,80             | P2            |
| TC4          | 19,05                      | 28,58               | 4,80             |               |
| SBY          | 19,05                      | 28,58               | 4,9/6            | SSSP2RD       |
| SB           | 19,05                      | 28,58               | 6,40             | GD            |
| SB2          | 19,05                      | 30,16               | 6,35             | ND            |
| SCY          | 19,05                      | 30,55               | 4,7/7,5          |               |
| HSB2R        | 19,05                      | 31,75               | 4,80             | GD            |
| SB           | 19,05                      | 31,75               | 4,80             | SSGD          |
| KC           | 19,05                      | 31,75               | 6,40             |               |
| KCP          | 19,05                      | 31,75               | 6,40             |               |
| SB           | 19,05                      | 31,75               | 6,40             | GD            |
| SB           | 19,05                      | 31,75               | 6,40             | P2            |
| TB           | 19,05                      | 31,75               | 6,40             | GD            |
| TB           | 19,05                      | 31,75               | 6,40             | P5            |
| TBRV         | 19,05                      | 31,75               | 6,40             | P5RD          |
| TB2          | 19,05                      | 31,75               | 6,60             | P5            |
| SA2          | 19,05                      | 31,75               | 7,90             | GD            |
| SBR          | 19,05                      | 31,75               | 7,90             | SSGD          |
| TB           | 19,05                      | 31,75               | 7,90             | GD            |
| TBR          | 19,05                      | 31,75               | 7,90             | P5            |
| TBR          | 19,05                      | 31,75               | 7,90             | GD            |
| TBR21        | 19,05                      | 31,75               | 8,80             | ND            |
| SA2          | 19,05                      | 31,75               | 9,50             | P2            |
| TA2          | 19,05                      | 31,75               | 9,50             | P0            |
| KB           | 19,05                      | 31,75               | 10,30            | NDRD          |
| KBR          | 19,05                      | 31,75               | 11,10            | ND            |
| SAFE         | 19,05                      | 31,75               | 11,10            | GD            |
| SB2          | 19,05                      | 31,80               | 4,80             | P5            |
| SB2V         | 19,05                      | 31,80               | 4,80             | P5            |
| SBRP         | 19,05                      | 31,80               | 7,80             | SSSND         |
| TB2          | 19,05                      | 31,85               | 6,40             | P6            |
| KB           | 19,05                      | 33,05               | 6,40             | ND            |
| SAVT         | 19,05                      | 33,30               | 9,50             | GD            |
| SB2          | 19,05                      | 33,32               | 6,40             | P0            |
| HTBR         | 19,05                      | 33,34               | 7,90             | GD            |
| HTBRV        | 19,05                      | 33,34               | 7,90             | GD            |
| HTCR         | 19,05                      | 33,34               | 7,90             |               |
| TBR          | 19,05                      | 33,34               | 7,90             | GD            |
| SA2Y         | 19,05                      | 33,34               | 8,80             | SSSGD         |
| Y            | 19,05                      | 33,34               | 12,70            |               |
| Y            | 19,05                      | 33,34               | 12,70            |               |
| YA           | 19,05                      | 33,34               | 12,70            |               |
| TBR          | 19,05                      | 33,47               | 7,90             | GD            |
| TCWY         | 19,05                      | 34,60               | 4,4/5,9          |               |
| TC4Y         | 19,05                      | 34,60               | 6,40             |               |
| TCY          | 19,05                      | 34,75               | 6,10             |               |
| TC4P         | 19,05                      | 34,93               | 3,2/9,5          |               |
| KCY          | 19,05                      | 34,93               | 4/6,4            |               |
| TB2          | 19,05                      | 34,93               | 6,40             | GD            |
| TB2          | 19,05                      | 34,93               | 6,40             | P2            |
| TB2Y         | 19,05                      | 34,93               | 6,40             | NDRD          |
| TBR          | 19,05                      | 34,93               | 6,40             | GDGR          |
| VBR          | 19,05                      | 34,93               | 6,40             | SUSND         |
| SA2          | 19,05                      | 34,93               | 7,90             | GD            |
| TB2          | 19,05                      | 34,93               | 7,90             | P0            |
| SB2          | 19,05                      | 34,93               | 9,50             | ND            |
| TB2          | 19,05                      | 34,93               | 9,50             | P0            |
| TB42         | 19,05                      | 34,93               | 9,50             | P2            |
| DC           | 19,05                      | 34,93               | 9,90             |               |
| TB42         | 19,05                      | 34,95               | 11,5/15          | GD            |
| HSBR         | 19,05                      | 36,00               | 6,40             | GD            |
| TC57         | 19,05                      | 36,5/42,5           | 11,50            | SSSGR1        |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TC57         | 19,05                      | 36,5/42,5        | 11,50         | SSSGR         |
| SB2          | 19,05                      | 38,07            | 6,40          | P5RD          |
| SB2          | 19,05                      | 38,10            | 6,40          | P2            |
| TB2          | 19,05                      | 38,10            | 6,40          | P2            |
| SBRT         | 19,05                      | 39,47            | 4,50          | SSND          |
| SB2          | 19,05                      | 40,00            | 6,40          | ND            |
| TB2          | 19,05                      | 41,25            | 6,40          | ND            |
| SAVT         | 19,05                      | 41,28            | 6,40          | SSP3          |
| TB2I         | 19,05                      | 41,28            | 7,90          | GD            |
| KCY          | 19,05                      | 41,30            | 7,90          |               |
| VBRY         | 19,05                      | 41,67            | 4,00          | ND            |
| SB2          | 19,05                      | 44,45            | 6,40          | SSSGD         |
| TBR          | 19,05                      | 44,45            | 7,90          | GD            |
| HSCEL        | 19,05                      | 44,45            | 8,90          | SS            |
| TB2          | 19,05                      | 44,50            | 6,40          | P2            |
| TB2          | 19,05                      | 45,24            | 6,40          | P0            |
| SB2          | 19,05                      | 46,43            | 6,40          | P2            |
| SB2          | 19,05                      | 46,43            | 6,40          | P2            |
| TB2          | 19,05                      | 47,60            | 6,40          | GD            |
| TB2I         | 19,05                      | 47,63            | 9,50          | GD            |
| SB2          | 19,05                      | 52,00            | 7,90          | ND            |
| TCI          | 19,05                      | 57,50            | 6,40          |               |
| TCS          | 19,05                      | 76,20            | 7,10          |               |
| SB           | 19,30                      | 31,29            | 4,50          | ND            |
| SBR          | 19,35                      | 29,37            | 6,40          | SSND          |
| DC           | 19,46                      | 47,00            | 13,00         |               |
| VB5Y         | 19,50                      | 24,5/26          | 12,70         | ND            |
| Y            | 19,50                      | 46,40            | 4/22          | ND            |
| HSAYR        | 19,80                      | 40,00            | 5,5/8,2       | ND            |
| HSBYR        | 19,80                      | 40,00            | 7,20          | ND            |
| TB2          | 19,84                      | 31,75            | 6,40          | GD            |
| TCI          | 19,84                      | 31,75            | 6,40          |               |
| VB2          | 19,84                      | 34,93            | 4,80          | P5RD          |
| TB2          | 19,84                      | 34,93            | 6,40          | P2RD          |
| VB2J         | 19,84                      | 34,93            | 6,40          | ND            |
| SB2          | 19,84                      | 34,93            | 7,90          | GD            |
| SB2          | 19,84                      | 38,10            | 6,40          | GD            |
| SB2          | 19,84                      | 44,45            | 7,90          | GD            |
| SB2          | 19,84                      | 46,43            | 6,40          | P2            |
| TCW          | 19,90                      | 30,00            | 7,00          |               |
| VB5Y         | 20,00                      | 23,8/28          | 13,60         | ND            |
| VB5Y         | 20,00                      | 24/28            | 13,50         |               |
| KBR          | 20,00                      | 26,00            | 3,00          | ND            |
| SB           | 20,00                      | 26,00            | 4,00          | GD            |
| KC           | 20,00                      | 26,00            | 4,50          |               |
| KCS          | 20,00                      | 26/32            | 4,60          |               |
| KC           | 20,00                      | 26,00            | 5/6           |               |
| KC           | 20,00                      | 27,00            | 4,00          |               |
| KCS          | 20,00                      | 27/34            | 4,4/5,7       |               |
| KCSY         | 20,00                      | 27/34            | 4,5/8         |               |
| TB           | 20,00                      | 27,00            | 6,00          | GD            |
| TB           | 20,00                      | 28,00            | 4,00          | GD            |
| KCS          | 20,00                      | 28/36            | 5/6,3         |               |
| KCLW         | 20,00                      | 28,00            | 6/8           |               |
| TB           | 20,00                      | 28,00            | 6,00          | GD            |
| SB           | 20,00                      | 28,00            | 8,00          | GD            |
| SB           | 20,00                      | 28,58            | 4,80          | GD            |
| DBY          | 20,00                      | 30,00            | 4/7           | ND            |
| DB4Y         | 20,00                      | 30,00            | 5/8           | GD            |
| HSCL         | 20,00                      | 30,00            | 5,00          |               |
| SB           | 20,00                      | 30,00            | 5,00          | GD            |
| SC5Y         | 20,00                      | 30/34            | 5/6           |               |
| TCY          | 20,00                      | 30,00            | 5/6           |               |
| SC5Y         | 20,00                      | 30/33,5          | 5,5/6         |               |
| TC4          | 20,00                      | 30,00            | 5,50          | GR            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SC2          | 20,00                      | 30,00            | 6,00          | SS            |
| TB2          | 20,00                      | 30,00            | 6,00          | GD            |
| TBR          | 20,00                      | 30,00            | 6,00          | GD            |
| TCY          | 20,00                      | 30,00            | 6,5/7,5       | GRLF          |
| HTCR         | 20,00                      | 30,00            | 7,00          |               |
| KC           | 20,00                      | 30,00            | 7,00          |               |
| SB           | 20,00                      | 30,00            | 7,00          | GD            |
| SCI          | 20,00                      | 30,00            | 7,00          | SS            |
| SCXS         | 20,00                      | 30,00            | 7,00          | GD            |
| TB           | 20,00                      | 30,00            | 7,00          |               |
| TBR          | 20,00                      | 30,00            | 7,00          |               |
| TC42         | 20,00                      | 30,00            | 7,00          | GD            |
| TCLW         | 20,00                      | 30,00            | 7/8           | GD            |
| VATHP        | 20,00                      | 30,00            | 7,00          |               |
| VCHP         | 20,00                      | 30,00            | 7,00          |               |
| HTCR         | 20,00                      | 30,00            | 7,50          | GD            |
| DB           | 20,00                      | 30,00            | 8,00          |               |
| TC5          | 20,00                      | 30/34            | 8,50          |               |
| DC           | 20,00                      | 30,00            | 10,00         | SS            |
| DC4          | 20,00                      | 30,00            | 10,00         |               |
| BU           | 20,00                      | 30,00            | 13,00         |               |
| VCY          | 20,00                      | 31,00            | 4/5           | GD            |
| TC42         | 20,00                      | 31,00            | 6,00          | ND            |
| SB           | 20,00                      | 31,00            | 7,00          |               |
| SBR          | 20,00                      | 31,00            | 7,00          |               |
| TB           | 20,00                      | 31,00            | 7,00          | GD            |
| TBR          | 20,00                      | 31,00            | 7,00          | GD            |
| SBCW         | 20,00                      | 31,00            | 7,20          | SSND          |
| TBCW         | 20,00                      | 31,00            | 7,30          | ND            |
| HTCR         | 20,00                      | 32,00            | 5,00          | GD            |
| KCY          | 20,00                      | 32,00            | 5,00          |               |
| SB           | 20,00                      | 32,00            | 5,00          |               |
| SC2          | 20,00                      | 32,00            | 5,00          | SS            |
| HTCWR        | 20,00                      | 32,00            | 5,50          | SS            |
| TCW          | 20,00                      | 32,00            | 6,00          |               |
| HSCL         | 20,00                      | 32,00            | 7,00          |               |
| SB           | 20,00                      | 32,00            | 7,00          | GD            |
| SCJ          | 20,00                      | 32,00            | 7,00          | SS            |
| SCW          | 20,00                      | 32,00            | 7,00          |               |
| TB           | 20,00                      | 32,00            | 7,00          |               |
| TCI          | 20,00                      | 32,00            | 7,00          | GD            |
| TCI          | 20,00                      | 32,00            | 7,00          | SS            |
| TCJ          | 20,00                      | 32,00            | 7,00          |               |
| TCW          | 20,00                      | 32,00            | 7,00          |               |
| TC40         | 20,00                      | 32,00            | 7,50          | SS            |
| TC5          | 20,00                      | 32/36            | 7,50          |               |
| KCGY         | 20,00                      | 32,00            | 8/11          |               |
| TB           | 20,00                      | 32,00            | 8,00          | GD            |
| DC4Y         | 20,00                      | 32,00            | 10/15         | SS            |
| SCY          | 20,00                      | 32,54            | 3,00          | #0            |
| TC5P         | 20,00                      | 33/46            | 4/10          | SSND          |
| HSCL         | 20,00                      | 33,00            | 6,00          |               |
| DC4Y         | 20,00                      | 33,00            | 10/15         |               |
| SBRP         | 20,00                      | 33,45            | 6,00          | ND            |
| SBRP         | 20,00                      | 33,45            | 6,00          | SSND          |
| TC5P         | 20,00                      | 33,5/45          | 6/10          |               |
| HTCL         | 20,00                      | 34,00            | 7,00          |               |
| DC4Y         | 20,00                      | 34,00            | 10/15         | SS            |
| TCY          | 20,00                      | 34,50            | 6,4/9,5       | GD            |
| VY           | 20,00                      | 35,00            | 2/4,5         |               |
| VC2          | 20,00                      | 35,00            | 3,00          |               |
| HTCWR        | 20,00                      | 35,00            | 5,50          | ND            |
| TB2J         | 20,00                      | 35,00            | 6,00          |               |
| AB           | 20,00                      | 35,00            | 7,00          |               |
| DB           | 20,00                      | 35,00            | 7,00          | GD            |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| DC           | 20,00                      | 35,00            | 7,00          |               |
| HSCVWR       | 20,00                      | 35,00            | 7/10          |               |
| SB2          | 20,00                      | 35,00            | 7,00          | GD            |
| SCI          | 20,00                      | 35,00            | 7,00          | SS            |
| SCJ          | 20,00                      | 35,00            | 7,00          |               |
| TB2          | 20,00                      | 35,00            | 7,00          | GD            |
| TC4          | 20,00                      | 35,00            | 7,00          |               |
| TCWJ         | 20,00                      | 35,00            | 7,00          |               |
| DC           | 20,00                      | 35,00            | 8,00          |               |
| SAP2T        | 20,00                      | 35,00            | 8,00          | SSGD          |
| SCJ          | 20,00                      | 35,00            | 8,00          |               |
| TB           | 20,00                      | 35,00            | 8,00          | GD            |
| TCAY         | 20,00                      | 35,00            | 8,00          |               |
| TCY          | 20,00                      | 35,00            | 8/12,5        |               |
| TCA          | 20,00                      | 35,00            | 9/10          | GR            |
| DC           | 20,00                      | 35,00            | 10,00         |               |
| DC4Y         | 20,00                      | 35,00            | 10/15         | SS            |
| HTCR         | 20,00                      | 35,00            | 10,00         |               |
| TB           | 20,00                      | 35,00            | 10,00         | GD            |
| TC4P         | 20,00                      | 35,80            | 3,3/9         |               |
| TB           | 20,00                      | 35,80            | 4,00          | GD            |
| HTCR         | 20,00                      | 36,00            | 7,00          |               |
| TCJ          | 20,00                      | 36,00            | 7,00          | SS            |
| DC           | 20,00                      | 36,00            | 10,00         |               |
| DC4Y         | 20,00                      | 36,00            | 10/15         | SS            |
| TC4P         | 20,00                      | 36,00            | 10,00         |               |
| TC4P         | 20,00                      | 37,00            | 4,1/10        |               |
| TCJ          | 20,00                      | 37,00            | 6,00          | SS            |
| TCJ          | 20,00                      | 37,00            | 7,00          |               |
| TCY          | 20,00                      | 37/38,2          | 8,00          |               |
| VBY          | 20,00                      | 38,00            | 2,50          | ND            |
| KC           | 20,00                      | 38,00            | 7,00          |               |
| OV5Y         | 20,00                      | 39/46,7          | 3,50          | ND            |
| TC4P         | 20,00                      | 40,00            | 3,5/10,2      |               |
| TB2          | 20,00                      | 40,00            | 4,00          | GD            |
| DC           | 20,00                      | 40,00            | 7,00          |               |
| SB2          | 20,00                      | 40,00            | 7,00          | GD            |
| SB5          | 20,00                      | 40/60            | 7,00          | ND            |
| SB5          | 20,00                      | 40/60            | 7,00          | ND            |
| SB5          | 20,00                      | 40/60            | 7,00          | ND            |
| SB5A         | 20,00                      | 40/60            | 7,00          |               |
| TB           | 20,00                      | 40,00            | 7,00          | GD            |
| TB5          | 20,00                      | 40,00            | 7,00          | GD            |
| TCJ          | 20,00                      | 40,00            | 7,00          |               |
| TCY          | 20,00                      | 40,00            | 7,5/9         |               |
| DC           | 20,00                      | 40,00            | 8,00          | SS            |
| TCJ          | 20,00                      | 40,00            | 8,00          | SS            |
| TCLW         | 20,00                      | 40,00            | 8/11,5        |               |
| TCJ          | 20,00                      | 40,00            | 9,00          | SS            |
| DC           | 20,00                      | 40,00            | 10,00         |               |
| SB2          | 20,00                      | 40,00            | 10,00         | GD            |
| TB2          | 20,00                      | 40,00            | 10,00         | GD            |
| TB5          | 20,00                      | 40,00            | 10,00         | GD            |
| TC4          | 20,00                      | 40,00            | 10,00         |               |
| KCY          | 20,00                      | 40,00            | 12,30         | ND            |
| TC4P         | 20,00                      | 40,50            | 5,5/9,5       |               |
| TC4P2        | 20,00                      | 40,70            | 4/10          |               |
| TC4P         | 20,00                      | 41,00            | 3/10,5        |               |
| TC4P2        | 20,00                      | 41,00            | 4/9           | ND            |
| DC4P         | 20,00                      | 41,00            | 4,5/9,5       | SS            |
| TC4P4        | 20,00                      | 41,00            | 4,5/11,5      | ND            |
| TC4P         | 20,00                      | 41,50            | 3,5/10,5      |               |
| TB2          | 20,00                      | 41,50            | 7,00          | GD            |
| SB2          | 20,00                      | 42,00            | 7,00          | ND            |
| SCW          | 20,00                      | 42,00            | 7,00          | LF            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TC6Y         | 20,00                      | 42,00            | 7/10          |               |
| HTCYL        | 20,00                      | 42/43            | 8/9           |               |
| SB           | 20,00                      | 42,00            | 8,00          | GD            |
| SA2          | 20,00                      | 42,00            | 10,00         | GD            |
| TC4Y         | 20,00                      | 42,30            | 9,30          |               |
| SA2          | 20,00                      | 42,50            | 10,00         | GD            |
| KCY          | 20,00                      | 43,00            | 7/10          |               |
| SL           | 20,00                      | 43,00            | 9,00          | SUSND         |
| TC4P         | 20,00                      | 45,00            | 3,5/10,5      |               |
| TC4P         | 20,00                      | 45,00            | 4,5/10        |               |
| TB2I         | 20,00                      | 45,00            | 7,00          | GD            |
| TC4          | 20,00                      | 45,00            | 10,00         |               |
| VY           | 20,00                      | 46,86            | 4,20          |               |
| DC           | 20,00                      | 47,00            | 7,00          |               |
| SB2          | 20,00                      | 47,00            | 7,00          | ND            |
| TB2          | 20,00                      | 47,00            | 7,00          | P2            |
| TCYI         | 20,00                      | 47,00            | 7/9           |               |
| VCY          | 20,00                      | 47,00            | 8,00          |               |
| VCY          | 20,00                      | 47,00            | 8/9           |               |
| HTCR         | 20,00                      | 47,00            | 8,50          |               |
| SA2          | 20,00                      | 47,00            | 10,00         | GD            |
| TB2          | 20,00                      | 47,08            | 12,70         | GD            |
| TC4P         | 20,00                      | 47,70            | 7/10,5        |               |
| TC4L         | 20,00                      | 48,50            | 12/14,2       |               |
| HTCR         | 20,00                      | 49,00            | 7,00          |               |
| TCW          | 20,00                      | 52,00            | 7,50          |               |
| TBR          | 20,00                      | 52,00            | 8,00          | GD            |
| Y            | 20,00                      | 53,00            | 37,00         |               |
| BASF         | 20,00                      | 62,00            | 6,50          |               |
| SCY          | 20,00                      | 62,00            | 6,50          |               |
| BO-2         | 20,24                      | 31,54            | 4,45/4,95     | ND            |
| KC2Y         | 20,30                      | 38/46            | 8,00          |               |
| OVY          | 20,40                      | 42,00            | 6,00          |               |
| TB           | 20,50                      | 28,00            | 5,00          | GD            |
| VB5Y         | 20,50                      | 28,00            | 11,75         | ND            |
| TC7WY        | 20,50                      | 40,00            | 7,00          | SSSGR6        |
| TB2          | 20,50                      | 41,20            | 5,00          | ND            |
| VB5Y         | 20,64                      | 23,68/26,67      | 6,33          | ND            |
| VB5Y         | 20,64                      | 23,68/26,67      | 6,33          | ND            |
| TCY          | 20,64                      | 30,96            | 4,8/6,4       |               |
| SB           | 20,64                      | 31,52            | 4,30          | ND            |
| SB           | 20,64                      | 31,75            | 4,80          | GD            |
| SB2          | 20,64                      | 31,75            | 6,40          | SSGD          |
| TBR          | 20,64                      | 31,75            | 6,40          | GD            |
| TBR          | 20,64                      | 31,75            | 6,40          | ND            |
| VB2          | 20,64                      | 34,93            | 6,00          | P2            |
| VAY          | 20,64                      | 34,93            | 6,40          | ND            |
| KAJ          | 20,64                      | 34,93            | 7,9/10,6      | SSSND         |
| TB2          | 20,64                      | 34,93            | 7,90          | SSP2          |
| TBR          | 20,64                      | 34,93            | 7,90          | ND            |
| SB2          | 20,64                      | 34,93            | 9,50          | P2RD          |
| SB2          | 20,64                      | 34,93            | 9,50          | GD            |
| TB           | 20,64                      | 34,93            | 9,50          | GD            |
| TCWP         | 20,64                      | 35,56            | 6/6,6         |               |
| TB2          | 20,64                      | 36,51            | 6,40          | GD            |
| SB2          | 20,64                      | 38,07            | 6,40          | ND            |
| TB           | 20,64                      | 41,25            | 6,40          | GD            |
| TCY          | 20,70                      | 30,68            | 4,60          |               |
| HTCYL        | 20,80                      | 53,00            | 6/9           |               |
| KC           | 21,00                      | 27,00            | 5,00          |               |
| TB           | 21,00                      | 28,00            | 5,50          | GD            |
| VBY          | 21,00                      | 28,70            | 3,5/5,7       | ND            |
| KC           | 21,00                      | 29,00            | 4,00          |               |
| VP           | 21,00                      | 31,00            | 3,5/4         |               |
| TCWI         | 21,00                      | 32,00            | 5,50          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TB           | 21,00                      | 32,00            | 6,00          | GD            |
| HTBR         | 21,00                      | 32,00            | 7,00          | GD            |
| SCY          | 21,00                      | 33,00            | 6/6,5         |               |
| TC4          | 21,00                      | 33,00            | 7,00          |               |
| KC4Y         | 21,00                      | 35,00            | 7/9           |               |
| TC6Y         | 21,00                      | 35,00            | 7/10          |               |
| TC6Y         | 21,00                      | 37,00            | 7/11          |               |
| VB2          | 21,00                      | 37,00            | 7,00          | ND            |
| TCLW         | 21,00                      | 40,00            | 8/11,5        |               |
| VATL         | 21,00                      | 45,00            | 7,00          | SUS           |
| HTCYL        | 21,00                      | 52,00            | 6/7,5         |               |
| SB2          | 21,41                      | 34,93            | 6,40          | P5            |
| SB2          | 21,43                      | 34,93            | 7,90          | NDRD          |
| VAY          | 21,43                      | 41,28            | 6,40          | ND            |
| TB2          | 21,43                      | 46,43            | 7,90          | ND            |
| KCY          | 21,50                      | 33,00            | 3,2/5,5       |               |
| PY           | 21,50                      | 35,00            | 4/6,75        |               |
| HTCWYR       | 21,50                      | 48,00            | 8,40          |               |
| VSB8         | 21,53                      | 38,00            | 25,00         |               |
| SCX          | 21,80                      | 31,75            | 5,00          |               |
| SB2Y         | 21,80                      | 34,93            | 6,50          | SSSGDRD       |
| VBY          | 21,80                      | 37,00            | 6/7,8         | ND            |
| SC2          | 21,80                      | 42,00            | 6,00          | SS            |
| SC2J         | 21,80                      | 42,00            | 9,50          | SS            |
| SCJA         | 21,80                      | 42,00            | 9,50          | SS            |
| Y5           | 22,00                      | 24/41            | 16,00         |               |
| KC           | 22,00                      | 28,00            | 4,00          |               |
| KC5          | 22,00                      | 28/34            | 4,5/5,7       |               |
| KCY          | 22,00                      | 28,00            | 8,00          |               |
| KC           | 22,00                      | 29,00            | 4,00          |               |
| KC           | 22,00                      | 29,00            | 5,00          |               |
| KC           | 22,00                      | 30,00            | 4,00          |               |
| KC5          | 22,00                      | 30/38            | 5/6,3         |               |
| UPH          | 22,00                      | 31,00            | 5,00          |               |
| VP           | 22,00                      | 31,00            | 5,00          |               |
| SB           | 22,00                      | 31,00            | 7,00          | ND            |
| SCT          | 22,00                      | 31,50            | 3,2/7,9       |               |
| SCY          | 22,00                      | 31,50            | 3,2/6,4       |               |
| SCT          | 22,00                      | 32,00            | 3,8/6         |               |
| SCY          | 22,00                      | 32,00            | 3,8/6         |               |
| HTCWYR       | 22,00                      | 32,00            | 5/5,5         |               |
| SB           | 22,00                      | 32,00            | 5,50          | GD            |
| HSCR         | 22,00                      | 32,00            | 6,00          |               |
| HTCL         | 22,00                      | 32,00            | 7,00          |               |
| HTCR         | 22,00                      | 32,00            | 7,00          |               |
| SB2          | 22,00                      | 32,00            | 7,00          | GD            |
| SCT          | 22,00                      | 32,00            | 7,00          |               |
| SCY          | 22,00                      | 32,00            | 7,00          |               |
| TCY          | 22,00                      | 32,00            | 7/8           |               |
| TCJ          | 22,00                      | 33,00            | 7,00          |               |
| TCY          | 22,00                      | 33,00            | 8/9           | SS            |
| TC4P         | 22,00                      | 33,80            | 2/7           |               |
| HTCR         | 22,00                      | 34,00            | 5,00          |               |
| HTCL         | 22,00                      | 34,00            | 6,00          |               |
| DC4Y         | 22,00                      | 34,00            | 7/11          | SS            |
| DC4Y         | 22,00                      | 34,00            | 10/15         | SS            |
| TC4P         | 22,00                      | 34,00            | 10,50         | SS            |
| SC5T         | 22,00                      | 34,5/38          | 3/7,5         |               |
| SC5Y         | 22,00                      | 34,5/38          | 3/7,5         |               |
| OVY          | 22,00                      | 34,80            | 1,5/3,3       |               |
| VP           | 22,00                      | 35,00            | 3,30          |               |
| TC4P4        | 22,00                      | 35,00            | 3,7/11,5      |               |
| HTBR         | 22,00                      | 35,00            | 5,00          | GD            |
| KCY          | 22,00                      | 35,00            | 5,00          |               |
| SC2          | 22,00                      | 35,00            | 5,00          | SS            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SCW          | 22,00                      | 35,00            | 5,00          |               |
| HSCL         | 22,00                      | 35,00            | 6,00          |               |
| DB           | 22,00                      | 35,00            | 7,00          | GD            |
| DC           | 22,00                      | 35,00            | 7,00          |               |
| HTC4I        | 22,00                      | 35,00            | 7,00          |               |
| HTCL         | 22,00                      | 35,00            | 7,00          |               |
| SB2          | 22,00                      | 35,00            | 7,00          | P0            |
| SC4          | 22,00                      | 35,00            | 7,00          | GR            |
| TB2          | 22,00                      | 35,00            | 7,00          | P9            |
| TB2          | 22,00                      | 35,00            | 7,00          | GD            |
| TC4J         | 22,00                      | 35,00            | 7,00          |               |
| TC4P         | 22,00                      | 35,00            | 7/9           |               |
| TCJ          | 22,00                      | 35,00            | 7,00          |               |
| SA2          | 22,00                      | 35,00            | 8,00          | GD            |
| SB           | 22,00                      | 35,00            | 8,00          | GD            |
| SC4          | 22,00                      | 35,00            | 8,00          |               |
| TBRV         | 22,00                      | 35,00            | 8,00          | GD            |
| SCT          | 22,00                      | 35,00            | 8,50          | SS            |
| SCY          | 22,00                      | 35,00            | 8,50          | SS            |
| TCY          | 22,00                      | 35,00            | 8,5/13        |               |
| TCY          | 22,00                      | 35,00            | 8,5/13        |               |
| HTC5L        | 22,00                      | 35/44            | 9/10          | SS            |
| SA2          | 22,00                      | 35,00            | 10,00         | GD            |
| SCWT         | 22,00                      | 35,00            | 10/15,6       |               |
| SCWY         | 22,00                      | 35,00            | 10,00         |               |
| TB42         | 22,00                      | 35,00            | 10,00         | GD            |
| VP6          | 22,00                      | 35,00            | 13,50         |               |
| TC4P         | 22,00                      | 35,30            | 3/10,5        |               |
| SC2          | 22,00                      | 36,00            | 6,00          | SS            |
| DC4Y         | 22,00                      | 36,00            | 7,5/11        | SS            |
| TB2          | 22,00                      | 36,00            | 8,00          | GD            |
| TC5WY        | 22,00                      | 36/48            | 9/14,5        | SS            |
| DC4          | 22,00                      | 36,00            | 10,00         |               |
| DC4Y         | 22,00                      | 36,00            | 10/15         | SS            |
| SB2          | 22,00                      | 36,00            | 10,00         | ND            |
| SCT          | 22,00                      | 36,50            | 8,00          | SS            |
| SCY          | 22,00                      | 36,50            | 8,00          | SS            |
| TC4P4        | 22,00                      | 37,00            | 3,9/12,3      |               |
| TCL          | 22,00                      | 37,00            | 8/9           |               |
| TCL          | 22,00                      | 37,00            | 8/10          |               |
| SCT          | 22,00                      | 37/37,5          | 9,00          |               |
| SCY          | 22,00                      | 37/37,5          | 9,00          |               |
| TC4P         | 22,00                      | 37,20            | 3,2/8,5       |               |
| TC4P         | 22,00                      | 38,00            | 4/10          |               |
| HTCR         | 22,00                      | 38,00            | 7,00          |               |
| TCJ          | 22,00                      | 38,00            | 7,00          |               |
| HTCR         | 22,00                      | 38,00            | 8,00          |               |
| HTCR         | 22,00                      | 38,00            | 8,00          |               |
| SBR          | 22,00                      | 38,00            | 8,00          | SSSGD         |
| SCT          | 22,00                      | 38,00            | 8,00          | SS            |
| SCY          | 22,00                      | 38,00            | 8,00          | SS            |
| TB           | 22,00                      | 38,00            | 8,00          | GD            |
| TB2          | 22,00                      | 38,00            | 10,00         | GD            |
| SCY          | 22,00                      | 39,30            | 10,00         |               |
| SCT          | 22,00                      | 39,30            | 12,50         |               |
| TBY          | 22,00                      | 40,00            | 6,50          | SSNDRD        |
| DC           | 22,00                      | 40,00            | 7,00          |               |
| HSB2R        | 22,00                      | 40,00            | 7,00          | ND            |
| TCJ          | 22,00                      | 40,00            | 7,00          | SS            |
| HTCWR        | 22,00                      | 40,00            | 8,00          |               |
| HTCWR        | 22,00                      | 40,00            | 8,00          |               |
| TBR          | 22,00                      | 40,00            | 8,00          | ND            |
| TCJ          | 22,00                      | 40,00            | 8,00          | SS            |
| TCLW         | 22,00                      | 40,00            | 8/11,5        |               |
| TCLWY        | 22,00                      | 40/56            | 8/11,5        |               |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| DC           | 22,00                      | 40,00            | 8,50          | SS            |
| DC           | 22,00                      | 40,00            | 10,00         |               |
| TC4          | 22,00                      | 40,00            | 10,00         |               |
| TCLW         | 22,00                      | 40,00            | 10/11,5       | SSLF          |
| TC5Y         | 22,00                      | 40/52            | 11/15,5       | SS            |
| HTCYR        | 22,00                      | 40,00            | 12/16         |               |
| SC5S         | 22,00                      | 40/44            | 13/16         |               |
| TB2          | 22,00                      | 41,25            | 7,00          | GD            |
| TB2          | 22,00                      | 41,50            | 7,00          | GD            |
| TB2          | 22,00                      | 42,00            | 7,00          | P0            |
| TC6Y         | 22,00                      | 42,00            | 7/10          |               |
| SB2          | 22,00                      | 42,00            | 10,00         | GD            |
| TB2          | 22,00                      | 42,00            | 10,00         | GD            |
| TB4          | 22,00                      | 42,00            | 10,00         | GD            |
| KCY          | 22,00                      | 42,00            | 11,00         |               |
| TC4          | 22,00                      | 42,00            | 11,00         |               |
| TC42Y        | 22,00                      | 42,00            | 11/12         | SS            |
| TC4P         | 22,00                      | 45,00            | 5,4/10        |               |
| TC4P         | 22,00                      | 45,50            | 4,5/10        |               |
| DC4P         | 22,00                      | 46,20            | 6,5/13        |               |
| TC4P         | 22,00                      | 46,20            | 6,7/10,7      |               |
| TB4P         | 22,00                      | 46,70            | 4/11,5        |               |
| TC4P         | 22,00                      | 46,80            | 4,2/13,6      |               |
| DC4P2        | 22,00                      | 47,00            | 6,5/12        | SS            |
| TC40         | 22,00                      | 47,00            | 8,00          |               |
| TC4P         | 22,00                      | 48,00            | 6/11          |               |
| TC4P         | 22,00                      | 48,00            | 7/10,5        |               |
| TC42Y        | 22,00                      | 48,00            | 11/13,5       |               |
| TC4Y         | 22,00                      | 48,00            | 11,00         |               |
| Y            | 22,00                      | 60,00            | 35,50         |               |
| SCT          | 22,05                      | 31,95            | 7,00          |               |
| HTCYR        | 22,20                      | 40,00            | 12/17         |               |
| TC4I         | 22,22                      | 31,75            | 6/7,5         |               |
| VB5          | 22,23                      | 28,58            | 3,20          | GD            |
| KBY          | 22,23                      | 28,58            | 4/5,5         | ND            |
| VCP          | 22,23                      | 28,58            | 4,00          |               |
| WKB          | 22,23                      | 28,58            | 4,80          | GD            |
| KCL3         | 22,23                      | 28,58            | 5,10          |               |
| VB5          | 22,23                      | 30,2/36          | 4,00          | ND            |
| VCY          | 22,23                      | 31,50            | 4,80          |               |
| VBR          | 22,23                      | 31,75            | 4,60          | P5            |
| SB           | 22,23                      | 31,75            | 4,80          | P2            |
| SB           | 22,23                      | 31,75            | 4,80          | GD            |
| SB           | 22,23                      | 31,75            | 4,80          | SSSGD         |
| SBA          | 22,23                      | 31,75            | 4,80          | SSSGD         |
| SBR          | 22,23                      | 31,75            | 4,80          | GD            |
| TB           | 22,23                      | 31,75            | 4,80          | P2            |
| SB2          | 22,23                      | 31,75            | 6,40          | SSGD          |
| TBR          | 22,23                      | 31,75            | 6,40          | ND            |
| SBR          | 22,23                      | 31,75            | 7,00          | SSSGD         |
| DB           | 22,23                      | 31,75            | 9,50          | SSSGD         |
| VB5          | 22,23                      | 32/41,4          | 4,30          |               |
| VB5          | 22,23                      | 32,1/41,4        | 4,30          | ND            |
| KC4W         | 22,23                      | 32,39            | 6,40          |               |
| KBY          | 22,23                      | 33,20            | 6,4/8,3       | GD            |
| KC           | 22,23                      | 33,34            | 6,40          |               |
| SB           | 22,23                      | 33,34            | 6,40          | ND            |
| VB2          | 22,23                      | 33,34            | 6,40          | P2            |
| SB2          | 22,23                      | 34,93            | 4,80          | SSSGD         |
| SB2          | 22,23                      | 34,93            | 6,40          | GD            |
| SBR          | 22,23                      | 34,93            | 6,40          | P2            |
| TB2          | 22,23                      | 34,93            | 6,40          | GD            |
| TB2          | 22,23                      | 34,93            | 6,40          | P5            |
| TB2P         | 22,23                      | 34,93            | 6,40          | SSPSHRD       |
| VB2          | 22,23                      | 34,93            | 6,40          | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TB2P         | 22,23                      | 34,93            | 6,50          | SSSGDRD       |
| TCL          | 22,23                      | 34,93            | 7,00          |               |
| DC           | 22,23                      | 34,93            | 7,90          | SS            |
| SA2          | 22,23                      | 34,93            | 7,90          | P0            |
| SB           | 22,23                      | 34,93            | 7,90          | P2            |
| SB2          | 22,23                      | 34,93            | 7,90          | P0            |
| SBR          | 22,23                      | 34,93            | 7,90          | GD            |
| TB           | 22,23                      | 34,93            | 7,90          | P0            |
| TBK          | 22,23                      | 34,93            | 7,90          | GD            |
| VAT          | 22,23                      | 34,93            | 7,90          | SUS           |
| DBR          | 22,23                      | 34,93            | 9,50          | SSND          |
| DC           | 22,23                      | 34,93            | 9,50          | SSS           |
| TB           | 22,23                      | 34,93            | 9,90          | GD            |
| SB2          | 22,23                      | 38,07            | 6,40          | P5RD          |
| TCE          | 22,23                      | 38,07            | 6,50          |               |
| TCE          | 22,23                      | 38,07            | 6,50          |               |
| SA2          | 22,23                      | 38,07            | 7,90          | P2            |
| SB2          | 22,23                      | 38,10            | 6,40          | SSSGD         |
| TB2          | 22,23                      | 38,10            | 6,40          | ND            |
| DBR          | 22,23                      | 38,10            | 7,90          | SSND          |
| SB2          | 22,23                      | 38,10            | 7,90          | SSND          |
| SB2          | 22,23                      | 38,10            | 7,90          | NDRD          |
| SBR          | 22,23                      | 38,10            | 7,90          | SSSGD         |
| SBR          | 22,23                      | 38,10            | 7,90          | SSSGD         |
| TB2I         | 22,23                      | 38,10            | 7,90          |               |
| TB2P         | 22,23                      | 38,10            | 7,90          | SSP5          |
| SB           | 22,23                      | 40,00            | 4,70          | ND            |
| SB           | 22,23                      | 40,00            | 4,70          | ND            |
| SB2          | 22,23                      | 40,00            | 6,40          | P2            |
| SC5S         | 22,23                      | 40/44            | 13/16         |               |
| SAVT         | 22,23                      | 41,22            | 9,50          | GD            |
| KB2          | 22,23                      | 41,28            | 4,80          |               |
| TB2          | 22,23                      | 41,28            | 6,40          | P2RD          |
| TB2          | 22,23                      | 41,28            | 6,40          | GD            |
| SB2          | 22,23                      | 41,28            | 7,90          | P2            |
| SBRV         | 22,23                      | 42,82            | 14,40         | GD            |
| TB2          | 22,23                      | 44,45            | 7,90          | SSP0          |
| TB2          | 22,23                      | 47,60            | 6,40          | GD            |
| SB2          | 22,23                      | 47,63            | 6,40          | P5RD          |
| TB2I         | 22,23                      | 47,63            | 9,50          | GD            |
| SB2          | 22,23                      | 50,80            | 6,40          | P2            |
| TBY          | 22,23                      | 50,80            | 6,40          | SSNDRD        |
| TB2          | 22,23                      | 50,80            | 11,10         | GD            |
| TC40         | 22,23                      | 51,94            | 8,00          | SS            |
| SA2          | 22,23                      | 52,07            | 9,50          | SSGD          |
| SA2          | 22,30                      | 31,72            | 4,80          | SSSGD         |
| DCY          | 22,30                      | 34,87            | 11,90         | SSS           |
| SB2Y         | 22,30                      | 34,93            | 4,80          | SSSGDRD       |
| SC2          | 22,40                      | 35,00            | 6,00          | SS            |
| OKB          | 22,50                      | 31,5/43          | 3,6/5         | ND            |
| SCY          | 22,70                      | 47,00            | 7/7,5         |               |
| HTAYR        | 22,80                      | 40,00            | 6/8,5         | ND            |
| HTBYR        | 22,80                      | 40,00            | 7,70          | ND            |
| VB2          | 22,86                      | 38,10            | 6,40          | P2            |
| SCT          | 22,86                      | 40,13            | 7,90          | SS            |
| SCY          | 22,86                      | 40,13            | 7,90          | SS            |
| SCY          | 23,00                      | 30,00            | 4/6           |               |
| KC           | 23,00                      | 32,00            | 5,00          |               |
| TBR          | 23,00                      | 32,00            | 5,00          | GD            |
| SCT          | 23,00                      | 32,70            | 6/8           |               |
| SCY          | 23,00                      | 32,70            | 6/8           |               |
| SC4          | 23,00                      | 34,00            | 6,50          |               |
| HTCL         | 23,00                      | 34,00            | 8,00          |               |
| SC5T         | 23,00                      | 34,4/38,1        | 5/8,2         |               |
| SC5Y         | 23,00                      | 34,4/38,1        | 5/8,2         |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SC5T         | 23,00                      | 34,5/40,5        | 3,5/7,5       |               |
| SC5Y         | 23,00                      | 34,5/40,5        | 3,5/7,5       |               |
| SC5T         | 23,00                      | 34,5/38          | 5/8           |               |
| SC5Y         | 23,00                      | 34,5/38          | 5/8           |               |
| SCT          | 23,00                      | 34,50            | 6,50          |               |
| SCY          | 23,00                      | 34,50            | 6,50          |               |
| SC4          | 23,00                      | 35,00            | 6,50          | GR            |
| HTCR         | 23,00                      | 35,00            | 7,00          | SS            |
| HTBR         | 23,00                      | 35,00            | 8,00          | ND            |
| TB           | 23,00                      | 35,00            | 8,00          | GD            |
| HTA2R        | 23,00                      | 35,00            | 9,00          | SSND          |
| TC3          | 23,00                      | 35,00            | 10,00         |               |
| TC45         | 23,00                      | 35/41            | 12/16         |               |
| HSCWR        | 23,00                      | 36,00            | 6,00          |               |
| TCWJ         | 23,00                      | 36,00            | 13,00         |               |
| TCY          | 23,00                      | 36,00            | 13,00         |               |
| SC2          | 23,00                      | 37,00            | 6,00          | SS            |
| KC6Y         | 23,00                      | 37,00            | 7/11          |               |
| SC4          | 23,00                      | 38,00            | 6,50          |               |
| TCJ          | 23,00                      | 38,00            | 7,00          | SS            |
| TCI          | 23,00                      | 40,00            | 6,00          |               |
| HTCL         | 23,00                      | 40,00            | 7,00          |               |
| HTCYR        | 23,00                      | 40,00            | 12/16         |               |
| SCT          | 23,00                      | 41,00            | 8,00          | SS            |
| SCY          | 23,00                      | 41,00            | 8,00          | SS            |
| HTCI         | 23,00                      | 43,00            | 8,00          |               |
| TCY          | 23,00                      | 47,00            | 8,00          |               |
| SCY          | 23,02                      | 29,76            | 3,5/5,8       |               |
| SC5T         | 23,02                      | 34,5/38,1        | 5/8,2         |               |
| SCY          | 23,02                      | 34,5/38,1        | 5/8,2         |               |
| TB2          | 23,02                      | 38,07            | 9,90          | P0            |
| SB           | 23,11                      | 34,93            | 7,90          | GD            |
| VCY          | 23,30                      | 30,00            | 2,7/3,7       |               |
| SCAP         | 23,30                      | 37,50            | 6,00          |               |
| SCY          | 23,36                      | 29,75            | 4/6           |               |
| SY           | 23,42                      | 29,82            | 1,9/4,6       |               |
| UPT          | 23,50                      | 34,00            | 6,00          |               |
| UPY          | 23,50                      | 34,00            | 6,00          |               |
| SCT          | 23,50                      | 38,20            | 8,50          | SS            |
| SCY          | 23,50                      | 38,20            | 8,50          | SS            |
| S            | 23,70                      | 28,50            | 7,00          |               |
| VB5Y         | 23,81                      | 27,56/31         | 6,45          | ND            |
| VB5Y         | 23,81                      | 27,56/31         | 6,45          | ND            |
| TB           | 23,81                      | 34,93            | 6,40          | P5RD          |
| TB           | 23,81                      | 34,93            | 6,40          | P5RD          |
| TCI          | 23,81                      | 34,93            | 6,40          |               |
| TB2          | 23,81                      | 38,07            | 6,40          | P2            |
| TB2          | 23,81                      | 38,10            | 6,40          | GD            |
| TB2          | 23,81                      | 41,25            | 6,40          | P0            |
| SA2Y         | 23,81                      | 41,28            | 7,90          | SSSGD         |
| SB2          | 23,81                      | 44,50            | 6,40          | P2            |
| SB2          | 23,81                      | 46,43            | 6,40          | ND            |
| SA2          | 23,81                      | 46,51            | 11,10         | P0            |
| TB2          | 23,81                      | 46,99            | 7,90          | P5            |
| DB2          | 23,81                      | 50,80            | 12,70         | GD            |
| VB2          | 23,83                      | 34,93            | 6,40          | P5RD          |
| VB2          | 23,83                      | 34,93            | 6,40          | P5RD          |
| Y5           | 24,00                      | 26/40            | 16,00         |               |
| Y5           | 24,00                      | 26/43            | 16,00         |               |
| Y5           | 24,00                      | 26/43            | 16,00         |               |
| VB5Y         | 24,00                      | 27,5/30,99       | 6,40          | ND            |
| VB5Y         | 24,00                      | 27,5/31          | 6,40          | ND            |
| BU           | 24,00                      | 29,00            | 10,00         | GD            |
| BU           | 24,00                      | 29,00            | 10,00         | GD            |
| TB2          | 24,00                      | 30,00            | 5,00          | ND            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| KC           | 24,00                      | 31,00            | 5,00          |               |
| TB           | 24,00                      | 32,00            | 4,00          | GD            |
| SB           | 24,00                      | 32,00            | 7,00          | GD            |
| VC2          | 24,00                      | 32,00            | 7,00          |               |
| Y            | 24,00                      | 33,00            | 3,3/5         |               |
| Y            | 24,00                      | 33,00            | 3,3/5         |               |
| TC4W         | 24,00                      | 33,00            | 7,00          |               |
| SCT          | 24,00                      | 34,00            | 7,00          |               |
| SCY          | 24,00                      | 34,00            | 7,00          |               |
| SB2          | 24,00                      | 34,50            | 7,00          | ND            |
| BARD         | 24,00                      | 35,00            | 6,00          |               |
| HSC4I        | 24,00                      | 35,00            | 6,00          |               |
| HSCR         | 24,00                      | 35,00            | 6,00          |               |
| TCI          | 24,00                      | 35,00            | 7,00          |               |
| SCY          | 24,00                      | 35,00            | 8,50          |               |
| TB           | 24,00                      | 35,00            | 8,50          | ND            |
| TC4          | 24,00                      | 35,00            | 10,50         |               |
| SCAVT        | 24,00                      | 35,00            | 12,00         |               |
| SCY          | 24,00                      | 35,00            | 12,00         |               |
| HSCSWR       | 24,00                      | 35,5/39          | 8,1/10,6      |               |
| HTCR         | 24,00                      | 36,00            | 5,50          |               |
| TB           | 24,00                      | 36,00            | 6,00          | GD            |
| SC4Y         | 24,00                      | 36,00            | 6,50          |               |
| SCT          | 24,00                      | 36,00            | 7,00          |               |
| SCY          | 24,00                      | 36,00            | 7,00          |               |
| KC           | 24,00                      | 36,00            | 8,00          |               |
| SCT          | 24,00                      | 36/36,5          | 8,00          | SS            |
| SCY          | 24,00                      | 36/36,5          | 8,00          | SS            |
| SCT          | 24,00                      | 36,00            | 17,70         |               |
| SCY          | 24,00                      | 36,00            | 17,70         |               |
| SCT          | 24,00                      | 36,50            | 8,50          |               |
| SCY          | 24,00                      | 36,50            | 8,50          |               |
| HSCR         | 24,00                      | 37,00            | 5,00          |               |
| SCT          | 24,00                      | 37,00            | 8,50          |               |
| SCY          | 24,00                      | 37,00            | 8,50          |               |
| TBR          | 24,00                      | 38,00            | 6,00          | ND            |
| TC7          | 24,00                      | 38,00            | 8/12          |               |
| SCY          | 24,00                      | 38,00            | 8,50          |               |
| SCT          | 24,00                      | 38,20            | 8,50          | SS            |
| SCY          | 24,00                      | 38,20            | 8,50          | SS            |
| SCAVT        | 24,00                      | 38,20            | 12,50         |               |
| SCY          | 24,00                      | 38,20            | 12,50         |               |
| SCT          | 24,00                      | 39,00            | 8,00          | SS            |
| SCY          | 24,00                      | 39,00            | 8,00          | SS            |
| VY           | 24,00                      | 40,00            | 1,5/3,5       |               |
| SCY          | 24,00                      | 40,00            | 7,00          | SS            |
| HTCR         | 24,00                      | 40,00            | 7,50          |               |
| HTCL         | 24,00                      | 40,00            | 8,00          |               |
| HTCR         | 24,00                      | 40,00            | 8,00          |               |
| SCSF         | 24,00                      | 40,00            | 8/10          |               |
| SCY          | 24,00                      | 40,00            | 8,00          | SS            |
| TB2          | 24,00                      | 40,00            | 8,00          | GD            |
| TCA          | 24,00                      | 40,00            | 8,00          |               |
| SCY          | 24,00                      | 40,00            | 8,50          |               |
| SCT          | 24,00                      | 41,00            | 8,50          | SS            |
| SCY          | 24,00                      | 41,00            | 8,50          | SS            |
| TB           | 24,00                      | 41,20            | 7,00          | GD            |
| PY           | 24,00                      | 41,50            | 4/7           |               |
| PY           | 24,00                      | 41,50            | 4/9           |               |
| SCT          | 24,00                      | 42,00            | 8,50          | SS            |
| SCY          | 24,00                      | 42,00            | 8,50          | SS            |
| KC           | 24,00                      | 43,00            | 6,00          |               |
| SCY          | 24,00                      | 43,00            | 8,50          |               |
| TBR          | 24,00                      | 43,00            | 8,50          | GD            |
| TBRK         | 24,00                      | 43,00            | 8,6/9,5       | GD            |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SCY          | 24,00                      | 47,00            | 5,7/7,4       |               |
| SCX          | 24,00                      | 47,00            | 6/9           |               |
| SCY          | 24,00                      | 47,00            | 7,05/8,05     |               |
| DCY          | 24,00                      | 52,00            | 20,00         |               |
| MG5          | 24,00                      | 53/55            | 9/10,5        |               |
| TB2          | 24,00                      | 62,00            | 4,80          | SSP2RD        |
| SB           | 24,21                      | 34,44            | 7,00          | P0            |
| ECX          | 24,40                      | 31,75/35,8       | 10,50         |               |
| VB3          | 24,50                      | 29,10            | 3,50          | ND            |
| TC7WY        | 24,50                      | 44,00            | 7,00          | SSSGR6        |
| SA2          | 24,59                      | 38,07            | 7,90          | GD            |
| SBR          | 24,59                      | 44,45            | 7,90          | SSSND         |
| SBRY         | 24,60                      | 31,75            | 3,2/4,8       | ND            |
| SCY          | 24,60                      | 34,93            | 7,60          |               |
| SB2          | 24,60                      | 41,25            | 6,40          | SSP2          |
| SB2          | 24,60                      | 41,25            | 6,40          | SSP2          |
| SB2          | 24,60                      | 44,45            | 7,90          | GD            |
| TBY          | 24,60                      | 44,45            | 11,10         | PORD          |
| TB2          | 24,60                      | 47,00            | 7,90          | P2            |
| SB2          | 24,60                      | 47,00            | 9,50          | ND            |
| TC40         | 24,60                      | 61,98            | 9,50          | SS            |
| TB           | 24,61                      | 35,71            | 6,40          | GD            |
| SB2          | 24,61                      | 38,10            | 6,40          | NDRD          |
| SB2          | 24,61                      | 38,18            | 6,40          | P0            |
| TB2          | 24,61                      | 61,98            | 6,40          | P2            |
| TCJ          | 24,80                      | 38,00            | 7,00          | SS            |
| KCA          | 24,80                      | 45,26            | 6,4/10,2      |               |
| KCA          | 24,80                      | 45,26            | 6,4/10,2      |               |
| VCY          | 24,80                      | 45,26            | 6,4/10,2      |               |
| VCY          | 24,80                      | 45,26            | 6,4/10,2      |               |
| SB2          | 24,99                      | 36,98            | 7,00          | P2            |
| SB2          | 24,99                      | 38,05            | 6,40          | SSSND         |
| DC           | 24,99                      | 38,07            | 6,40          |               |
| TB2          | 24,99                      | 38,07            | 6,40          | P0            |
| TB2          | 24,99                      | 38,10            | 6,40          | P2            |
| TCE          | 24,99                      | 38,10            | 6,40          |               |
| SB2          | 24,99                      | 46,99            | 6,40          | P2            |
| VSY          | 25,00                      | 0,00             | 0,00          |               |
| SL           | 25,00                      | 30/46            | 9/15          | GD            |
| SL3          | 25,00                      | 30/42            | 9/12          | GD            |
| SL3          | 25,00                      | 30/47            | 9/12          | GD            |
| BU           | 25,00                      | 30,00            | 10,00         | GD            |
| VCO          | 25,00                      | 31,00            | 4,00          |               |
| SL3          | 25,00                      | 31/47            | 14,5/18       | GD            |
| KB           | 25,00                      | 32,00            | 4,00          | GD            |
| KC           | 25,00                      | 32,00            | 4,00          |               |
| VBG          | 25,00                      | 32,00            | 4,00          | GD            |
| TB           | 25,00                      | 32,00            | 7,00          | GD            |
| XICY2        | 25,00                      | 32/34            | 8/12          |               |
| XICY2        | 25,00                      | 32/34            | 8/12          |               |
| LPH          | 25,00                      | 33,00            | 4,5/6         |               |
| TB           | 25,00                      | 33,00            | 5,00          | GD            |
| VBY          | 25,00                      | 33,00            | 6/7           | GD            |
| SB5T         | 25,00                      | 33/37,5          | 6,7/8         | ND            |
| SB5Y         | 25,00                      | 33/37,5          | 6,7/8         | ND            |
| DCY          | 25,00                      | 33,50            | 10,5/14,8     | SS            |
| DCY          | 25,00                      | 33,50            | 10,5/14,8     | SS            |
| SCWP         | 25,00                      | 34,00            | 5,00          |               |
| TB           | 25,00                      | 34,00            | 5,00          | GD            |
| TC4L         | 25,00                      | 34,00            | 6/6,4         |               |
| HTBL         | 25,00                      | 34,61            | 6,30          | SSND          |
| DCWJ         | 25,00                      | 34,80            | 6/10          | SS            |
| TB42         | 25,00                      | 34,93            | 7,90          | P2            |
| SCT          | 25,00                      | 35,00            | 3,2/6,4       |               |
| SCY          | 25,00                      | 35,00            | 3,2/6,4       |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |               | Note<br>Notes |
|--------------|----------------------------|---------------------|---------------|---------------|
|              | Diametro Diameter          |                     | Altezza Width |               |
|              | Interno<br>Internal        | Esterno<br>External |               |               |
| SCY          | 25,00                      | 35,00               | 3,5/7,5       |               |
| SCJ          | 25,00                      | 35,00               | 5,00          | SS            |
| HSCW         | 25,00                      | 35,00               | 6/5,5         | SS            |
| HTCAR        | 25,00                      | 35,00               | 6,00          |               |
| HTCR         | 25,00                      | 35,00               | 6,00          |               |
| SB           | 25,00                      | 35,00               | 6,00          | GD            |
| DB           | 25,00                      | 35,00               | 7,00          | GD            |
| DC           | 25,00                      | 35,00               | 7,00          |               |
| HSCWI        | 25,00                      | 35,00               | 7,00          | SS            |
| HTCR         | 25,00                      | 35,00               | 7,00          | GR            |
| KC           | 25,00                      | 35,00               | 7,00          | GRLF          |
| OSC          | 25,00                      | 35,00               | 7,00          | SS            |
| SB2          | 25,00                      | 35,00               | 7,00          | ND            |
| SB2I         | 25,00                      | 35,00               | 7,00          | SSND          |
| SCI          | 25,00                      | 35,00               | 7,00          | SS            |
| SCJ          | 25,00                      | 35,00               | 7,00          |               |
| SCXS         | 25,00                      | 35,00               | 7,00          |               |
| TB           | 25,00                      | 35,00               | 7,00          | SSGD          |
| TB2          | 25,00                      | 35,00               | 7,00          | ND            |
| TBRJ         | 25,00                      | 35,00               | 7,00          | ND            |
| TC42         | 25,00                      | 35,00               | 7,00          |               |
| TCI          | 25,00                      | 35,00               | 7,00          |               |
| TCW          | 25,00                      | 35,00               | 7,00          |               |
| TCWJ         | 25,00                      | 35,00               | 7,00          |               |
| DCY          | 25,00                      | 35,00               | 8/12          | SSS           |
| TB           | 25,00                      | 35,00               | 8,00          | GD            |
| TC4Y         | 25,00                      | 35,00               | 9/10          |               |
| DC           | 25,00                      | 35,00               | 10,00         |               |
| TB           | 25,00                      | 35,00               | 10,00         | GD            |
| VCY          | 25,00                      | 36,00               | 4/5           |               |
| TC4          | 25,00                      | 36,00               | 5,00          |               |
| HTCL         | 25,00                      | 36,00               | 6,00          |               |
| DCY          | 25,00                      | 36,00               | 6,5/10,5      | SS            |
| VBY          | 25,00                      | 36,00               | 7/8           | ND            |
| SB2          | 25,00                      | 36,00               | 7,30          | SSGD          |
| TBCW         | 25,00                      | 36,00               | 7,30          | SSND          |
| SCAVT        | 25,00                      | 36,50               | 12,50         | GR            |
| SCT          | 25,00                      | 36,50               | 12,50         | GR            |
| SCY          | 25,00                      | 36,50               | 12,50         | GR            |
| SBJ          | 25,00                      | 37,00               | 4,00          | GD            |
| SBJ          | 25,00                      | 37,00               | 5,20          | ND            |
| DKI          | 25,00                      | 37,00               | 6/9           | ND            |
| TCJ          | 25,00                      | 37,00               | 6,00          |               |
| VBY          | 25,00                      | 37,00               | 6/7,5         | SUS           |
| DC           | 25,00                      | 37,00               | 7,00          |               |
| HSBL         | 25,00                      | 37,00               | 7,00          | GD            |
| HSC          | 25,00                      | 37,00               | 7,00          | SS            |
| HTCR         | 25,00                      | 37,00               | 7,00          |               |
| KC           | 25,00                      | 37,00               | 7,00          | GRLF          |
| SCT          | 25,00                      | 37,00               | 7,00          | GR            |
| SCW          | 25,00                      | 37,00               | 7,00          | SS            |
| SCY          | 25,00                      | 37,00               | 7,00          | GR            |
| TB           | 25,00                      | 37,00               | 7,00          | GD            |
| TBCW         | 25,00                      | 37,00               | 7,00          | SSND          |
| TBRJ         | 25,00                      | 37,00               | 7,00          | SS            |
| TCI          | 25,00                      | 37,00               | 7,00          |               |
| HTCR         | 25,00                      | 37,00               | 8,00          |               |
| DKI          | 25,00                      | 37,00               | 9,00          |               |
| DC4Y         | 25,00                      | 37,00               | 10,00         | SS            |
| SCST         | 25,00                      | 37,5/41,5           | 4,5/7,5       |               |
| SCSY         | 25,00                      | 37,5/41,5           | 4,5/7,5       |               |
| HTCR         | 25,00                      | 37,50               | 6,00          | SS            |
| SCT          | 25,00                      | 37,5/37,9           | 7,00          |               |
| SCY          | 25,00                      | 37,5/37,9           | 7,00          |               |
| SCT          | 25,00                      | 37,60               | 6,50          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SCY          | 25,00                      | 37,60            | 6,50          |               |
| KB2          | 25,00                      | 38,00            | 5/6           | GD            |
| VB2          | 25,00                      | 38,00            | 5,00          | GD            |
| HTCR         | 25,00                      | 38,00            | 6,00          |               |
| SC2          | 25,00                      | 38,00            | 6,00          | SS            |
| HSCL         | 25,00                      | 38,00            | 7,00          |               |
| HTCR         | 25,00                      | 38,00            | 7,00          |               |
| SC4          | 25,00                      | 38,00            | 7,00          |               |
| SCF          | 25,00                      | 38,00            | 7,00          | SS            |
| TB2          | 25,00                      | 38,00            | 7,00          | GD            |
| TB2          | 25,00                      | 38,00            | 7,00          | P0            |
| TC4L         | 25,00                      | 38,00            | 7/8           |               |
| TCJ          | 25,00                      | 38,00            | 7,00          | SS            |
| TC4L         | 25,00                      | 38,00            | 7,50          |               |
| DC           | 25,00                      | 38,00            | 8,00          | SS            |
| SA2          | 25,00                      | 38,00            | 8,00          | GD            |
| SCT          | 25,00                      | 38,00            | 8,50          | SS            |
| SCY          | 25,00                      | 38,00            | 8,50          | SS            |
| DC4Y         | 25,00                      | 38,00            | 10/15         | SS            |
| TC5WY        | 25,00                      | 38/49,5          | 10/14,2       | SS            |
| SCWT         | 25,00                      | 38,20            | 7,20          |               |
| SCWY         | 25,00                      | 38,20            | 7,20          |               |
| SCST         | 25,00                      | 38,5/44,5        | 5,5/12,5      |               |
| SCSY         | 25,00                      | 38,5/44,5        | 5,5/12,5      |               |
| SCT          | 25,00                      | 38,5/39          | 8,50          |               |
| SCY          | 25,00                      | 38,5/39          | 8,50          |               |
| HTCR         | 25,00                      | 39,50            | 8,00          |               |
| SCWT         | 25,00                      | 39,50            | 10,5/13       |               |
| SCWY         | 25,00                      | 39,50            | 10,50         |               |
| SCY          | 25,00                      | 40,00            | 3,00          |               |
| HTCL         | 25,00                      | 40,00            | 6,00          |               |
| SCF          | 25,00                      | 40,00            | 6,00          | SS            |
| TBRJ         | 25,00                      | 40,00            | 6,00          | ND            |
| DCVJ         | 25,00                      | 40,00            | 7,00          |               |
| SB2          | 25,00                      | 40,00            | 7,00          | P5            |
| SCESF        | 25,00                      | 40,00            | 7/10          |               |
| TB2          | 25,00                      | 40,00            | 7,00          | GD            |
| TB2          | 25,00                      | 40,00            | 7,00          | P0            |
| TBS          | 25,00                      | 40,00            | 7,00          | GD            |
| TC42         | 25,00                      | 40,00            | 7/8,5         |               |
| TCJ          | 25,00                      | 40,00            | 7,00          |               |
| TCW          | 25,00                      | 40,00            | 7,00          |               |
| HTCI         | 25,00                      | 40,00            | 7,50          |               |
| KCHP         | 25,00                      | 40,00            | 7,5/9,5       |               |
| TCLY         | 25,00                      | 40,00            | 7,5/9         |               |
| DC           | 25,00                      | 40,00            | 8,00          |               |
| DCP          | 25,00                      | 40,00            | 8,00          | SS            |
| HDCAL        | 25,00                      | 40,00            | 8,00          | GD            |
| HSCYL        | 25,00                      | 40,00            | 8,00          |               |
| HTCR         | 25,00                      | 40,00            | 8,00          |               |
| HTCWR        | 25,00                      | 40,00            | 8/8,5         |               |
| KC6          | 25,00                      | 40,00            | 8/9           |               |
| SB2P         | 25,00                      | 40,00            | 8,00          | ND            |
| TB2          | 25,00                      | 40,00            | 8,00          | GD            |
| DC           | 25,00                      | 40,00            | 9,00          |               |
| TC42         | 25,00                      | 40,00            | 9/10          |               |
| TCA          | 25,00                      | 40,00            | 9/10          | GR            |
| DC           | 25,00                      | 40,00            | 10,00         |               |
| DCAJ         | 25,00                      | 40/42            | 10,00         | ND            |
| SA2          | 25,00                      | 40,00            | 10,00         | GD            |
| SB2          | 25,00                      | 40,00            | 10,00         | GD            |
| SCJ          | 25,00                      | 40/42            | 10,00         |               |
| TC5WY        | 25,00                      | 40/49,5          | 10/15         | SS            |
| DC           | 25,00                      | 40,00            | 12,00         |               |
| SY           | 25,00                      | 40,50            | 6,20          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TB2          | 25,00                      | 41,25            | 7,00          | GD            |
| TCE          | 25,00                      | 41,25            | 7,00          |               |
| TA2          | 25,00                      | 41,50            | 7,00          | GD            |
| TB2          | 25,00                      | 41,50            | 7,00          | GD            |
| TC4P         | 25,00                      | 42,00            | 4/10          |               |
| DCY          | 25,00                      | 42,00            | 5,5/9         | SS            |
| TC4          | 25,00                      | 42,00            | 6,50          | GR            |
| VATHP        | 25,00                      | 42,00            | 7,00          |               |
| VCHP         | 25,00                      | 42,00            | 7,00          |               |
| HSCR         | 25,00                      | 42,00            | 8,00          |               |
| SB2          | 25,00                      | 42,00            | 8,00          | GD            |
| SCT          | 25,00                      | 42,00            | 9,00          | SS            |
| SCY          | 25,00                      | 42,00            | 9,00          | SS            |
| SCJ          | 25,00                      | 42,00            | 9,50          | SSS           |
| SCJA         | 25,00                      | 42,00            | 9,50          | SSS           |
| SA2          | 25,00                      | 42,00            | 10,00         | ND            |
| TC5Y         | 25,00                      | 42/59            | 10/15,5       | SSGR          |
| DCY          | 25,00                      | 42,50            | 5,5/9         | SS            |
| SCT          | 25,00                      | 42,50            | 10/12,5       |               |
| SCY          | 25,00                      | 42,50            | 10/12,5       |               |
| TB2          | 25,00                      | 43,00            | 8,00          | GD            |
| SCT          | 25,00                      | 43/43,5          | 9,00          | SS            |
| SCY          | 25,00                      | 43/43,5          | 9,00          | SS            |
| TC4P         | 25,00                      | 43,50            | 3/9,2         |               |
| HTCL         | 25,00                      | 44,00            | 6,50          |               |
| TCJ          | 25,00                      | 44,00            | 8,00          |               |
| SCT          | 25,00                      | 44,00            | 8,50          | SS            |
| SCY          | 25,00                      | 44,00            | 8,50          | SS            |
| SCY          | 25,00                      | 44,00            | 9,00          | SS            |
| SCYJ         | 25,00                      | 45,00            | 5,00          | SSS           |
| SCJ          | 25,00                      | 45,00            | 7,00          | SSS           |
| TCJ          | 25,00                      | 45,00            | 7,00          | SS            |
| HTBL         | 25,00                      | 45,00            | 8,00          | GD            |
| HTCWR        | 25,00                      | 45,00            | 8,00          |               |
| SCT          | 25,00                      | 45,00            | 8,00          |               |
| SCY          | 25,00                      | 45,00            | 8,00          |               |
| DC           | 25,00                      | 45,00            | 10,00         | SS            |
| SB2          | 25,00                      | 45,00            | 10,00         | GD            |
| TB2          | 25,00                      | 45,00            | 10,00         | GD            |
| TBP          | 25,00                      | 45,00            | 10/10,5       | GD            |
| TBP          | 25,00                      | 45,00            | 10,00         | GD            |
| Y            | 25,00                      | 45,00            | 12,00         |               |
| VP6Y         | 25,00                      | 45,00            | 13,00         |               |
| SBC          | 25,00                      | 47,00            | 6,00          | SSSND         |
| SBJ          | 25,00                      | 47,00            | 6,00          | SSSGD         |
| SCJ          | 25,00                      | 47,00            | 6,00          | SSS           |
| TB2          | 25,00                      | 47,00            | 6,00          | GD            |
| TCY          | 25,00                      | 47,00            | 6/7           |               |
| TB2          | 25,00                      | 47,00            | 7,00          | ND            |
| TCW          | 25,00                      | 47,00            | 7,00          |               |
| TCW5Y        | 25,00                      | 47/64            | 7/10,5        | SS            |
| DC           | 25,00                      | 47,00            | 8,00          |               |
| HTB42I       | 25,00                      | 47,00            | 8,00          | SSP2GR        |
| TB42         | 25,00                      | 47,00            | 8,00          | P2            |
| TC42         | 25,00                      | 47,00            | 8,00          |               |
| TC5AY        | 25,00                      | 47/55            | 8/16          | SSP2GR        |
| TC1WY        | 25,00                      | 47/55            | 8/12          | SS            |
| TCY          | 25,00                      | 47,00            | 8/11,5        | SS            |
| TA5Y         | 25,00                      | 47/58            | 9/14          |               |
| TC5Y         | 25,00                      | 47/58            | 9/14          |               |
| TCWY         | 25,00                      | 47/66            | 9/15          |               |
| TC42         | 25,00                      | 47,00            | 9,50          | GR            |
| TC42         | 25,00                      | 47,00            | 9,50          |               |
| DC           | 25,00                      | 47,00            | 10,00         |               |
| HTCWR        | 25,00                      | 47,00            | 10,00         |               |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| KC3S         | 25,00                      | 47/53               | 10,50            | GR            |
| SB2          | 25,00                      | 48,00               | 8,00             | P5RD          |
| TCJ          | 25,00                      | 48,00               | 8,00             | SS            |
| SCESF        | 25,00                      | 48,00               | 10,00            | SSGR          |
| DCWY         | 25,00                      | 48,00               | 15/22            |               |
| KCY          | 25,00                      | 49,00               | 6,5/12           |               |
| TCLW         | 25,00                      | 49,00               | 10/15            | SS            |
| TC4P         | 25,00                      | 50,00               | 7/11             | GDGR          |
| TC4          | 25,00                      | 50,00               | 15,00            |               |
| SL16         | 25,00                      | 50,20               | 12,00            |               |
| TB4P         | 25,00                      | 51,00               | 4/11,7           | SS            |
| DC4P         | 25,00                      | 52,00               | 6/10,5           |               |
| SCI          | 25,00                      | 52,00               | 7,00             |               |
| TB2          | 25,00                      | 52,00               | 7,90             | P2RD          |
| DC           | 25,00                      | 52,00               | 8,00             | SS            |
| TCAY         | 25,00                      | 52,00               | 8/10,5           | SS            |
| TCAY         | 25,00                      | 52,00               | 8/10,5           | SS            |
| TCAY         | 25,00                      | 52,00               | 8/10,5           | SS            |
| TCAY         | 25,00                      | 52,00               | 8/10,5           | SS            |
| TCY          | 25,00                      | 52,00               | 8,00             | SS            |
| TCY          | 25,00                      | 52,00               | 8,00             | SS            |
| DC           | 25,00                      | 52,00               | 9,00             | GR            |
| HTCSR        | 25,00                      | 52/55               | 10,00            |               |
| TC42         | 25,00                      | 52,00               | 10,00            |               |
| TCL          | 25,00                      | 52,00               | 10/14            | GD            |
| TCS          | 25,00                      | 52/60               | 10/14            |               |
| SB2          | 25,00                      | 52,00               | 12,00            |               |
| TC6          | 25,00                      | 52,00               | 12,00            | SS            |
| TCLW         | 25,00                      | 53,50               | 10/14            |               |
| TCWY         | 25,00                      | 55/68               | 8/11             |               |
| TCWY         | 25,00                      | 55/68               | 8/11             | SS            |
| SB2          | 25,00                      | 55,50               | 6,50             | SSP2GR        |
| TCE          | 25,00                      | 55,50               | 6,50             | SSGR          |
| TCE          | 25,00                      | 55,50               | 6,50             | SSGR          |
| TCE          | 25,00                      | 57,15               | 8,00             |               |
| SL16         | 25,00                      | 60,20               | 11,00            |               |
| DCY          | 25,00                      | 62/63,5             | 6/10             | GDGR          |
| HTCYL        | 25,00                      | 62,00               | 6/8              | SS            |
| SCI          | 25,00                      | 62,00               | 7,00             | SS            |
| TC9          | 25,00                      | 62,00               | 10/13            |               |
| TB2          | 25,00                      | 64,00               | 13,00            |               |
| TB42         | 25,00                      | 80,00               | 10,00            | GD            |
| TA2          | 25,02                      | 50,80               | 10,30            | P2            |
| TB2          | 25,08                      | 38,10               | 6,40             | ND            |
| SCY          | 25,13                      | 51,20               | 2,7/7,9          | GD            |
| VAFE         | 25,22                      | 45,24               | 13,50            | SS            |
| SBR          | 25,35                      | 31,75               | 3,20             | ND            |
| SBR          | 25,35                      | 31,75               | 3,20             | P2            |
| SL           | 25,40                      | 29,3/41,5           | 14,70            | P2            |
| VCHPJ        | 25,40                      | 31,39               | 3,94             | GDGR          |
| KB           | 25,40                      | 31,75               | 3,18/4,14        | GD            |
| TBP          | 25,40                      | 31,75               | 6,40             |               |
| TBS          | 25,40                      | 31,75               | 10,40            |               |
| TBS          | 25,40                      | 31,75               | 10,90            | ND            |
| VB2          | 25,40                      | 33,34               | 3,20             |               |
| KCY          | 25,40                      | 33,43               | 5,7/7,6          |               |
| KC           | 25,40                      | 33,50               | 5,60             | ND            |
| SB2          | 25,40                      | 33,58               | 5,30             |               |
| SBR          | 25,40                      | 34,93               | 4,80             |               |
| VBR          | 25,40                      | 34,93               | 4,80             | ND            |
| KC           | 25,40                      | 34,93               | 5,60             | GD            |
| SB           | 25,40                      | 34,93               | 6,40             | SSSGD         |
| SB           | 25,40                      | 34,93               | 6,40             |               |
| SBA          | 25,40                      | 34,93               | 6,40             |               |
| TB2          | 25,40                      | 34,93               | 6,40             | SSGD          |
| TB2          | 25,40                      | 34,93               | 6,40             | P2            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TBV          | 25,40                      | 34,93            | 6,40          | P2            |
| SCT          | 25,40                      | 34,93            | 7,90          |               |
| SCY          | 25,40                      | 34,93            | 7,90          |               |
| TC42         | 25,40                      | 34,93            | 7,90          |               |
| TC4W         | 25,40                      | 35,00            | 7,00          |               |
| OVY          | 25,40                      | 35,08/48,93      | 10,10         |               |
| KCL          | 25,40                      | 35,20            | 7/9           |               |
| XICY2        | 25,40                      | 35,2/38          | 9,5/13,5      |               |
| VBRY         | 25,40                      | 36,15            | 3,60          | ND            |
| TB5Y         | 25,40                      | 36,20            | 6,60          |               |
| SB2          | 25,40                      | 36,50            | 9,90          | ND            |
| SB2          | 25,40                      | 36,51            | 6,40          | P0            |
| TB2          | 25,40                      | 36,51            | 6,40          | GD            |
| SCY          | 25,40                      | 36,70            | 4,7/7,5       |               |
| SC5T         | 25,40                      | 37,5/41,28       | 3,2/7,5       |               |
| SC5Y         | 25,40                      | 37,5/41,28       | 3,2/7,5       |               |
| SB2          | 25,40                      | 38,07            | 6,40          | GD            |
| SB2I         | 25,40                      | 38,07            | 6,40          | P5            |
| TB           | 25,40                      | 38,07            | 6,40          | ND            |
| TB2          | 25,40                      | 38,07            | 6,40          | P2            |
| TB2Y         | 25,40                      | 38,07            | 6,40          | SSPSHRD       |
| TA3Y         | 25,40                      | 38,07            | 6,50          | P5            |
| TA3Y         | 25,40                      | 38,07            | 6,50          | P5            |
| TB2          | 25,40                      | 38,07            | 7,90          | GD            |
| TBAWU        | 25,40                      | 38,07            | 14,10         | GD            |
| TCJ          | 25,40                      | 38,10            | 4,80          |               |
| SB2          | 25,40                      | 38,10            | 6,40          | P0            |
| SB2          | 25,40                      | 38,10            | 6,40          | PORD          |
| SBR          | 25,40                      | 38,10            | 6,40          | SSSGD         |
| TB2          | 25,40                      | 38,10            | 6,40          | P0            |
| TB2          | 25,40                      | 38,10            | 6,40          | GD            |
| TB2P         | 25,40                      | 38,10            | 6,40          | P5            |
| TBY          | 25,40                      | 38,10            | 6,40          | P0            |
| SB2Y         | 25,40                      | 38,10            | 6,50          | SSSGD         |
| TBY          | 25,40                      | 38,10            | 7,00          | P2            |
| TBY          | 25,40                      | 38,10            | 7,00          | P2            |
| TC4P         | 25,40                      | 38,10            | 7/11          |               |
| TBA          | 25,40                      | 38,10            | 7,1/7,8       | GD            |
| VAT          | 25,40                      | 38,10            | 7,1/7,9       | P5            |
| SB2          | 25,40                      | 38,10            | 7,90          | ND            |
| TB2          | 25,40                      | 38,10            | 7,90          | GD            |
| TBA          | 25,40                      | 38,10            | 8/9,8         | GD            |
| TB           | 25,40                      | 38,10            | 8,30          | GD            |
| DC           | 25,40                      | 38,10            | 9,90          |               |
| SB           | 25,40                      | 38,10            | 9,90          | GD            |
| TA2          | 25,40                      | 38,10            | 9,90          | GD            |
| SAFE         | 25,40                      | 38,10            | 11,10         | GD            |
| TBA          | 25,40                      | 38,10            | 12,4/14,1     | GD            |
| TB2          | 25,40                      | 39,65            | 6,40          | GD            |
| SBY          | 25,40                      | 39,69            | 7,90          | GD            |
| SCT          | 25,40                      | 39,70            | 7,90          |               |
| SCY          | 25,40                      | 39,70            | 7,90          |               |
| TB2          | 25,40                      | 40,00            | 6,40          | P2            |
| DC           | 25,40                      | 41,10            | 9,00          |               |
| SA2          | 25,40                      | 41,16            | 9,50          | GD            |
| VCP          | 25,40                      | 41,22            | 8,70          |               |
| SB2          | 25,40                      | 41,25            | 6,35          | P0            |
| VB2          | 25,40                      | 41,25            | 6,40          | GD            |
| TBY          | 25,40                      | 41,28            | 6,40          | P0            |
| SCWT         | 25,40                      | 41,28            | 7,50          |               |
| SCWY         | 25,40                      | 41,28            | 7,50          |               |
| KCY          | 25,40                      | 41,28            | 8,80          | GR            |
| SC4          | 25,40                      | 42,06            | 6,40          |               |
| TB2          | 25,40                      | 42,82            | 6,40          | SSSND         |
| TB           | 25,40                      | 42,82            | 7,90          | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TBR          | 25,40                      | 42,86            | 7,90          | ND            |
| SB           | 25,40                      | 44,45            | 4,80          | GD            |
| TCI          | 25,40                      | 44,45            | 5,00          |               |
| TCY          | 25,40                      | 44,45            | 6,1/9,9       |               |
| TB2          | 25,40                      | 44,45            | 6,40          | P0            |
| TB2          | 25,40                      | 44,45            | 6,40          | GD            |
| TB2          | 25,40                      | 44,45            | 7,90          | P0            |
| SA2          | 25,40                      | 44,45            | 8,30          | GD            |
| SB2          | 25,40                      | 44,45            | 9,50          | P0            |
| TB2I         | 25,40                      | 44,45            | 9,50          | GD            |
| TB2          | 25,40                      | 44,45            | 11,11         | ND            |
| SB2          | 25,40                      | 44,50            | 6,40          | P2            |
| SB2          | 25,40                      | 44,50            | 6,40          | P2RD          |
| TB2          | 25,40                      | 44,50            | 6,40          | P2            |
| SB2          | 25,40                      | 44,50            | 7,90          | ND            |
| SB2          | 25,40                      | 44,50            | 9,50          | GD            |
| SA2          | 25,40                      | 44,50            | 11,10         | SS            |
| SA2J         | 25,40                      | 44,50            | 12,70         | ND            |
| OVY          | 25,40                      | 45,00            | 4/7,5         | ND            |
| KBY          | 25,40                      | 45,21            | 11,90         | ND            |
| VB2          | 25,40                      | 45,24            | 9,50          | ND            |
| VB2Y         | 25,40                      | 45,24            | 11,90         | ND            |
| SB2          | 25,40                      | 46,38            | 9,50          | P0            |
| SB2          | 25,40                      | 46,43            | 6,40          | GD            |
| SA2          | 25,40                      | 46,43            | 9,50          | GD            |
| SB2          | 25,40                      | 47,02            | 6,40          | P2            |
| TB2          | 25,40                      | 47,60            | 11,10         | GD            |
| VBC          | 25,40                      | 47,63            | 6,40          |               |
| KB2Y         | 25,40                      | 50,00            | 3,5/4,5       | ND            |
| TB2          | 25,40                      | 50,29            | 7,90          | P2            |
| TB2          | 25,40                      | 50,29            | 9,50          | P2            |
| TB2          | 25,40                      | 50,37            | 6,40          | GD            |
| TB2          | 25,40                      | 50,80            | 6,40          | GD            |
| TB2          | 25,40                      | 50,80            | 7,90          | P5RD          |
| TBR          | 25,40                      | 50,80            | 9,50          | GD            |
| TCY          | 25,40                      | 50,80            | 12,70         |               |
| TB2          | 25,40                      | 51,82            | 6,40          | GD            |
| TB2          | 25,40                      | 51,99            | 7,90          | GD            |
| TB2          | 25,40                      | 52,37            | 6,40          | P2            |
| SA2          | 25,40                      | 52,37            | 9,50          | P2            |
| SA2T         | 25,40                      | 53,98            | 9,50          | P0            |
| VC2Y         | 25,40                      | 58,74            | 7,90          |               |
| TB2          | 25,40                      | 62,00            | 9,50          | GD            |
| TB2          | 25,40                      | 62,00            | 9,50          | P2            |
| TCA          | 25,40                      | 62,00            | 9,50          | GD            |
| TB2I         | 25,40                      | 63,50            | 9,50          | GD            |
| KBY          | 25,48                      | 36,55            | 6,20          | GD            |
| ECY          | 25,50                      | 47,00            | 7,00          |               |
| ECY          | 25,50                      | 52,00            | 7,00          |               |
| UPT          | 25,50                      | 36,00            | 6,00          |               |
| UPT          | 25,50                      | 36,00            | 6,00          |               |
| HTCR         | 25,50                      | 37,50            | 5,60          |               |
| HTCR         | 25,50                      | 37,50            | 6,00          |               |
| SCT          | 25,50                      | 38,00            | 8,50          | SS            |
| SCY          | 25,50                      | 38,00            | 8,50          | SS            |
| SCT          | 25,50                      | 38,5/38,9        | 8,50          | SS            |
| SCY          | 25,50                      | 38,5/38,9        | 8,50          | SS            |
| SCT          | 25,50                      | 41,3/41,65       | 8,00          | SS            |
| SCY          | 25,50                      | 41,3/41,65       | 8,00          | SS            |
| SCT          | 25,50                      | 42,5/43          | 8,00          | SS            |
| SCY          | 25,50                      | 42,5/43          | 8,00          | SS            |
| VB5          | 25,58                      | 34,93/40,8       | 4,00          |               |
| SB2          | 25,80                      | 38,07            | 6,40          | P0            |
| ROV          | 26,00                      | 31,75            | 3,20          |               |
| KC           | 26,00                      | 32,00            | 4,00          |               |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br><i>Notes</i> |
|--------------|-----------------------------------|----------------------------|-------------------------|----------------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |                      |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |                      |
| VBR          | 26,00                             | 32,00                      | 4,00                    | GD                   |
| SB           | 26,00                             | 32,00                      | 5,00                    | SSGD                 |
| KC           | 26,00                             | 34,00                      | 4,00                    |                      |
| TCY          | 26,00                             | 34,00                      | 4,5/7                   |                      |
| KC           | 26,00                             | 34,00                      | 9,00                    |                      |
| SCW          | 26,00                             | 35,00                      | 5,00                    |                      |
| TC4WY        | 26,00                             | 35,00                      | 6/8                     |                      |
| GOA          | 26,00                             | 35,00                      | 9,40                    |                      |
| TC4          | 26,00                             | 35,50                      | 6,00                    |                      |
| TB4          | 26,00                             | 36,00                      | 10,50                   | GD                   |
| TB           | 26,00                             | 37,00                      | 6,00                    | GD                   |
| HSBR         | 26,00                             | 37,00                      | 7,00                    | GD                   |
| TB           | 26,00                             | 37,00                      | 7,00                    | GD                   |
| TCWY         | 26,00                             | 37,00                      | 7/8                     |                      |
| TCY          | 26,00                             | 37,00                      | 7/8                     |                      |
| TCY          | 26,00                             | 37,00                      | 7/8                     |                      |
| DC4          | 26,00                             | 37,00                      | 10,50                   | SS                   |
| DC4Y         | 26,00                             | 37,00                      | 10,50                   | SS                   |
| TB4          | 26,00                             | 37,00                      | 10,50                   | GD                   |
| TC4          | 26,00                             | 37,00                      | 10,50                   |                      |
| TCL          | 26,00                             | 37,00                      | 10,5/12                 |                      |
| SCJ          | 26,00                             | 37,31                      | 5,00                    | SS                   |
| XICY         | 26,00                             | 37,5/41,7                  | 4,7/14                  |                      |
| XICY1        | 26,00                             | 37,5/41,5                  | 5/12                    |                      |
| HTCR         | 26,00                             | 37,50                      | 6,00                    | GR                   |
| PY           | 26,00                             | 38,00                      | 4,50                    |                      |
| SB           | 26,00                             | 38,00                      | 6,00                    | ND                   |
| SC4          | 26,00                             | 38,00                      | 6,50                    |                      |
| SCT          | 26,00                             | 38,00                      | 8,50                    | GR                   |
| SCY          | 26,00                             | 38,00                      | 8,50                    | GR                   |
| HTCR         | 26,00                             | 40,00                      | 8,00                    |                      |
| SCY          | 26,00                             | 40,00                      | 8,00                    |                      |
| SBRY         | 26,00                             | 40,00                      | 10,00                   | GD                   |
| SCT          | 26,00                             | 41/41,5                    | 8,50                    | SS                   |
| SCT          | 26,00                             | 41,00                      | 8,50                    |                      |
| SCY          | 26,00                             | 41,00                      | 8,50                    |                      |
| SCY          | 26,00                             | 41/41,5                    | 8,50                    | SS                   |
| TC4P         | 26,00                             | 42,00                      | 4/10                    |                      |
| HTBCR        | 26,00                             | 42,00                      | 8,00                    | NDGR                 |
| HTCR         | 26,00                             | 42,00                      | 8,00                    |                      |
| HTCWR        | 26,00                             | 42,00                      | 8,00                    | SS                   |
| KC4          | 26,00                             | 42,00                      | 8,00                    |                      |
| KC4          | 26,00                             | 42,00                      | 8/9                     |                      |
| SB2          | 26,00                             | 42,00                      | 8,00                    | ND                   |
| SCT          | 26,00                             | 42,00                      | 8,00                    |                      |
| SCY          | 26,00                             | 42,00                      | 8,00                    |                      |
| HTCR         | 26,00                             | 42,00                      | 10,00                   |                      |
| TA2          | 26,00                             | 42,00                      | 10,00                   | GD                   |
| TCWY         | 26,00                             | 42,00                      | 16,50                   |                      |
| TB           | 26,00                             | 43,00                      | 6,00                    | GD                   |
| SCY          | 26,00                             | 43,00                      | 8,50                    |                      |
| HTCR         | 26,00                             | 43,00                      | 10,00                   |                      |
| OVY          | 26,00                             | 43,00                      | 10/14,5                 |                      |
| SCY          | 26,00                             | 45,00                      | 8,50                    |                      |
| SB           | 26,00                             | 45,00                      | 10,00                   | GD                   |
| TCYI         | 26,00                             | 47,00                      | 7/9                     |                      |
| TCY          | 26,00                             | 47,00                      | 7,30                    |                      |
| DC           | 26,00                             | 47,00                      | 8,00                    |                      |
| SCY          | 26,00                             | 47,00                      | 8,50                    | SS                   |
| DCJ          | 26,00                             | 47,00                      | 10,00                   | SSS                  |
| HTCR         | 26,00                             | 48,00                      | 7,00                    | GR                   |
| SCY          | 26,00                             | 48,00                      | 9,50                    |                      |
| SCESF        | 26,00                             | 48,00                      | 10/11                   |                      |
| TCY          | 26,00                             | 52,00                      | 7/8                     |                      |
| TCYI         | 26,00                             | 52,00                      | 7/9                     |                      |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| DC           | 26,00                      | 52,00            | 8,00          |               |
| MG5          | 26,00                      | 60/64            | 8,5/11,5      |               |
| TB2          | 26,19                      | 40,00            | 7,90          | GD            |
| TB2          | 26,20                      | 40,00            | 7,90          | P0            |
| TB2          | 26,20                      | 40,00            | 7,90          | P2            |
| OKB          | 26,50                      | 33,5/41,5        | 3,8/5         | ND            |
| SCY          | 26,50                      | 43,00            | 8,50          |               |
| SCT          | 26,50                      | 44/44,3          | 8,00          |               |
| SCY          | 26,50                      | 44/44,3          | 8,00          |               |
| TSY          | 26,67                      | 63,50            | 8,50          | SS            |
| TSY          | 26,67                      | 63,50            | 8,50          | SS            |
| VCTHP        | 26,97                      | 37,29            | 3,20          |               |
| VCTHP        | 26,97                      | 37,29            | 4,8/5,5       |               |
| TCY          | 26,97                      | 38,10            | 5,6/7,4       |               |
| SBR          | 26,98                      | 41,28            | 7,90          | ND            |
| SB           | 26,98                      | 42,86            | 8,70          | ND            |
| TCY          | 26,99                      | 34,82            | 3,5/6,2       | SS            |
| TBR          | 26,99                      | 34,82            | 4,80          | SSP2          |
| VCVT         | 26,99                      | 34,90            | 7,60          |               |
| VCY          | 26,99                      | 34,90            | 7,60          |               |
| TBY          | 26,99                      | 34,93            | 5,00          | ND            |
| VCY          | 26,99                      | 34,93            | 5,40          |               |
| SCY          | 26,99                      | 36,90            | 3,9/7,1       |               |
| SB           | 26,99                      | 38,07            | 6,40          | P2            |
| SBC          | 26,99                      | 38,10            | 5,60          | ND            |
| TB2          | 26,99                      | 41,28            | 6,40          | P2            |
| SA2          | 26,99                      | 41,28            | 7,90          | P0            |
| SBY          | 26,99                      | 41,28            | 7,90          | ND            |
| SBYT         | 26,99                      | 41,28            | 7,90          | ND            |
| TBR          | 26,99                      | 42,82            | 7,90          | ND            |
| TCW          | 26,99                      | 42,86            | 7,90          |               |
| TB2          | 26,99                      | 44,45            | 6,40          | P2            |
| TB2          | 26,99                      | 47,60            | 6,40          | P0            |
| SB2X         | 26,99                      | 47,63            | 6,40          | P5RD          |
| TB2I         | 26,99                      | 47,63            | 9,50          | GD            |
| TB2          | 26,99                      | 50,29            | 9,50          | P2            |
| SA2          | 26,99                      | 50,37            | 7,90          | GD            |
| VBY          | 27,00                      | 32,00            | 5,10          |               |
| VBY          | 27,00                      | 33,70            | 3,5/5,7       | ND            |
| KB           | 27,00                      | 33,70            | 4,00          | ND            |
| VBX          | 27,00                      | 33,91            | 3,80          | ND            |
| VB2          | 27,00                      | 34,00            | 3,00          | GD            |
| KC           | 27,00                      | 34,00            | 4,00          |               |
| XICY7        | 27,00                      | 35/39            | 2,5/6,8       |               |
| UP           | 27,00                      | 35,00            | 5,00          |               |
| DC           | 27,00                      | 36,00            | 10,00         |               |
| XICY4        | 27,00                      | 36,2/42          | 5,6/14        |               |
| HTCWR        | 27,00                      | 37,00            | 7,00          | SS            |
| SB           | 27,00                      | 37,00            | 7,00          | GD            |
| TCL          | 27,00                      | 37,00            | 7,5/9,5       |               |
| DC4          | 27,00                      | 37,00            | 10,50         |               |
| XICY1        | 27,00                      | 37,5/43          | 5,5/14,5      |               |
| BO-2         | 27,00                      | 37,70            | 4,45/4,95     | ND            |
| SC4          | 27,00                      | 38,00            | 5,50          |               |
| HTCL         | 27,00                      | 38,00            | 6,00          |               |
| SBC4P        | 27,00                      | 38,00            | 6,50          | ND            |
| DC4          | 27,00                      | 39,00            | 10,50         | SS            |
| TB4          | 27,00                      | 39,00            | 10,50         | GD            |
| TC4          | 27,00                      | 39,00            | 10,50         |               |
| TC4Y         | 27,00                      | 39,00            | 10,50         | GR1           |
| TCL          | 27,00                      | 39,00            | 11/13         |               |
| XICY         | 27,00                      | 39,3/45          | 5,6/14,8      |               |
| XICY1        | 27,00                      | 39,5/43,5        | 5/12          |               |
| HTCR         | 27,00                      | 40,00            | 6,00          |               |
| KC           | 27,00                      | 40,00            | 6,00          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| TC6          | 27,00                      | 40,00               | 6,00             |               |
| HTCL         | 27,00                      | 40,00               | 7,00             |               |
| HTCL         | 27,00                      | 40,00               | 8,00             |               |
| HTCR         | 27,00                      | 40,00               | 8,00             |               |
| DC4          | 27,00                      | 40,00               | 10,50            | SS            |
| TC4          | 27,00                      | 40,00               | 10,50            |               |
| VBY          | 27,00                      | 40,30               | 3,2/4,8          | SUSND         |
| SB           | 27,00                      | 41,50               | 9,50             | GD            |
| HTCL         | 27,00                      | 42,00               | 7,00             |               |
| SCT          | 27,00                      | 42,00               | 8,50             | SS            |
| SCY          | 27,00                      | 42,00               | 8,50             | SS            |
| HTCI         | 27,00                      | 42,00               | 10,00            |               |
| HTCR         | 27,00                      | 43,00               | 7,00             |               |
| TBS          | 27,00                      | 43,00               | 8,00             | ND            |
| TCW          | 27,00                      | 43,00               | 8,00             | SS            |
| VAT2         | 27,00                      | 43,00               | 8,00             | ND            |
| HTCL         | 27,00                      | 43,00               | 9,00             |               |
| HTCR         | 27,00                      | 43,00               | 9,00             |               |
| TB           | 27,00                      | 43,00               | 9,00             | GD            |
| TCI          | 27,00                      | 43,00               | 9,00             |               |
| VCY          | 27,00                      | 44,00               | 7,5/10,5         |               |
| HTCL         | 27,00                      | 45,00               | 9,00             |               |
| HTCR         | 27,00                      | 45,00               | 9,00             |               |
| TCI          | 27,00                      | 45,00               | 9,00             |               |
| SCY          | 27,00                      | 46,00               | 8,50             |               |
| KCWK         | 27,00                      | 46,94               | 7,50             | GR            |
| BA           | 27,00                      | 47,00               | 6,00             |               |
| HTCWR        | 27,00                      | 47,00               | 7,00             | SS            |
| HTCR         | 27,00                      | 47,00               | 10,00            |               |
| TB           | 27,00                      | 48,00               | 8,00             | GD            |
| SCESF        | 27,00                      | 49,00               | 10,00            |               |
| TCE          | 27,00                      | 50,80               | 6,40             |               |
| SB2          | 27,00                      | 52,00               | 8,00             | P5RD          |
| TA2          | 27,00                      | 62,00               | 12,00            | GD            |
| TC42         | 27,00                      | 72,00               | 9,50             | GR            |
| TC42         | 27,00                      | 72,00               | 9,50             |               |
| TC42         | 27,00                      | 80,00               | 10,00            |               |
| BO-1Y        | 27,05                      | 34,93               | 2,50             |               |
| VCTHP        | 27,10                      | 37,54               | 3,90             |               |
| VCP          | 27,30                      | 33,34               | 3,30             |               |
| OKB          | 27,50                      | 35/43               | 4,40             | ND            |
| OKB          | 27,50                      | 37,5/48             | 3,7/4,7          | ND            |
| SCY          | 27,50                      | 62,50               | 3/4,3            | SS            |
| KB3Y         | 27,56                      | 45,72               | 22,60            | ND            |
| SB           | 27,64                      | 41,28               | 7,00             | SSSGD         |
| SBA          | 27,64                      | 41,28               | 7,00             | SSSGD         |
| SCY          | 27,70                      | 38,00               | 8,50             |               |
| SCY          | 27,70                      | 40,00               | 9,00             |               |
| TCAVT        | 27,70                      | 46,00               | 13/14            |               |
| HTCYJL       | 27,80                      | 55,00               | 10,00            |               |
| SBR          | 27,94                      | 39,93               | 7,80             | ND            |
| KC           | 28,00                      | 34,00               | 4,00             |               |
| KB           | 28,00                      | 35,00               | 4,00             | GD            |
| KC           | 28,00                      | 35,00               | 4,00             |               |
| KCY          | 28,00                      | 35,00               | 4,00             |               |
| KB           | 28,00                      | 35,00               | 5,00             | ND            |
| SBY          | 28,00                      | 35,20               | 5/7,5            | GD            |
| VWF          | 28,00                      | 35,50               | 5,20             |               |
| KB           | 28,00                      | 36,00               | 3,00             | ND            |
| TB           | 28,00                      | 36,00               | 6,00             | GD            |
| KCY          | 28,00                      | 36,50               | 5,7/7,6          |               |
| SB           | 28,00                      | 37,00               | 4,00             | ND            |
| VP           | 28,00                      | 37,00               | 4,00             |               |
| TB           | 28,00                      | 37,00               | 6,00             | GD            |
| VBR          | 28,00                      | 37,00               | 6,00             | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| VBY          | 28,00                      | 37,00            | 6,5/7,8       | ND            |
| VCY          | 28,00                      | 37/40            | 17/23         |               |
| HTC45L       | 28,00                      | 38/41            | 6/7,5         |               |
| HTCL         | 28,00                      | 38,00            | 6,00          |               |
| TCW          | 28,00                      | 38,00            | 6,00          |               |
| TC4          | 28,00                      | 38,00            | 6,20          |               |
| VBR          | 28,00                      | 38,00            | 6,50          | ND            |
| HSCL         | 28,00                      | 38,00            | 7,00          |               |
| HTCWR        | 28,00                      | 38,00            | 7,00          |               |
| SB           | 28,00                      | 38,00            | 7,00          | GD            |
| SC4          | 28,00                      | 38,00            | 7,00          |               |
| TC4L         | 28,00                      | 38,00            | 7/8           |               |
| TCJ          | 28,00                      | 38,00            | 7,00          |               |
| TA2          | 28,00                      | 38,00            | 8,00          | P9            |
| SCT          | 28,00                      | 38,00            | 9,00          |               |
| SCY          | 28,00                      | 38,00            | 9,00          |               |
| HSCL         | 28,00                      | 38,00            | 10,00         |               |
| HTC4YL       | 28,00                      | 38,00            | 10/15         |               |
| SB           | 28,00                      | 38,00            | 10,00         | GD            |
| TBC4P        | 28,00                      | 38,30            | 7,60          | ND            |
| VP           | 28,00                      | 39,00            | 4,00          |               |
| VBR          | 28,00                      | 39,00            | 6,00          | ND            |
| OKB          | 28,00                      | 39,9/50          | 4,75/5,8      | ND            |
| SB           | 28,00                      | 40,00            | 7,00          | ND            |
| SBR          | 28,00                      | 40,00            | 7,00          | GD            |
| SCW          | 28,00                      | 40,00            | 7,00          |               |
| TCI          | 28,00                      | 40,00            | 7,00          |               |
| HSBRR        | 28,00                      | 40,00            | 7,50          | GD            |
| DC           | 28,00                      | 40,00            | 8,00          |               |
| HTCR         | 28,00                      | 40,00            | 8,00          |               |
| SCY          | 28,00                      | 40,00            | 8,00          |               |
| TB           | 28,00                      | 40,00            | 8,00          | GD            |
| TBR          | 28,00                      | 40,00            | 8,00          | GD            |
| TCJ          | 28,00                      | 40,00            | 8,00          | SS            |
| TCY          | 28,00                      | 40,00            | 9/11          |               |
| TB4          | 28,00                      | 40,00            | 10,50         | GD            |
| DC4          | 28,00                      | 40,00            | 11,00         | SS            |
| SC4          | 28,00                      | 41,00            | 6,50          |               |
| HTCL         | 28,00                      | 41,00            | 7,00          |               |
| SCY          | 28,00                      | 41/41,5          | 8,00          |               |
| TB           | 28,00                      | 41,00            | 8,00          | GD            |
| TB4          | 28,00                      | 41,00            | 10,50         | GD            |
| TBR          | 28,00                      | 41,30            | 7,00          | GD            |
| TB           | 28,00                      | 41,50            | 7,00          | GD            |
| HTCWR        | 28,00                      | 42,00            | 5,00          | SS            |
| SCA          | 28,00                      | 42,00            | 5,5/6         |               |
| KC7          | 28,00                      | 42,00            | 6/8           | GR            |
| SC2          | 28,00                      | 42,00            | 6,00          | SS            |
| HTCWR        | 28,00                      | 42,00            | 7,00          |               |
| HTCWR        | 28,00                      | 42,00            | 7,00          |               |
| SA2          | 28,00                      | 42,00            | 7,00          | GD            |
| TC42         | 28,00                      | 42,00            | 7,00          |               |
| HTCL         | 28,00                      | 42,00            | 8,00          |               |
| KC7Y         | 28,00                      | 42,00            | 9/11,25       |               |
| SC2J         | 28,00                      | 42,00            | 9,50          | SS            |
| SCJA         | 28,00                      | 42,00            | 9,50          | SS            |
| SC4          | 28,00                      | 42,00            | 10,00         |               |
| SCAVT        | 28,00                      | 42,00            | 12,50         | GR            |
| SCY          | 28,00                      | 42,00            | 12,50         | GR            |
| Y            | 28,00                      | 42,50            | 11,50         |               |
| SC2          | 28,00                      | 43,00            | 7,00          | SS            |
| HTCR         | 28,00                      | 43,00            | 8,00          |               |
| HSB2R        | 28,00                      | 43,00            | 10,00         | ND            |
| SB           | 28,00                      | 43,00            | 10,00         | GD            |
| TCW          | 28,00                      | 44,00            | 6,00          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTCR         | 28,00                      | 44,00            | 7,00          |               |
| TC9          | 28,00                      | 44,00            | 8/11          |               |
| SCY          | 28,00                      | 44,70            | 9,00          |               |
| HTCR         | 28,00                      | 45,00            | 8,00          |               |
| TB2I         | 28,00                      | 46,00            | 8,00          | GD            |
| TCY          | 28,00                      | 46,00            | 13/14         |               |
| TC5          | 28,00                      | 47,00            | 4,2/5         |               |
| TCL          | 28,00                      | 47,00            | 6/7           |               |
| HSC          | 28,00                      | 47,00            | 7,00          |               |
| SCJ          | 28,00                      | 47,00            | 7,00          | SS            |
| DC           | 28,00                      | 47,00            | 8,00          |               |
| HSB2R        | 28,00                      | 47,00            | 8,00          | GD            |
| HSB2R        | 28,00                      | 47,00            | 8,00          | ND            |
| HTB2L        | 28,00                      | 47,00            | 8,00          | GD            |
| HTCR         | 28,00                      | 47,00            | 8,00          |               |
| TA2          | 28,00                      | 47,00            | 8,00          | ND            |
| TC6Y         | 28,00                      | 47,00            | 8/12          |               |
| HSCL         | 28,00                      | 47,00            | 8,50          |               |
| DB           | 28,00                      | 47,00            | 10,00         | SSGD          |
| HTC42R       | 28,00                      | 47,00            | 10,00         |               |
| HTC42R       | 28,00                      | 47,00            | 10,00         |               |
| SB2          | 28,00                      | 47,00            | 10,00         | GD            |
| TA2          | 28,00                      | 47,50            | 10,00         | P9            |
| TB2          | 28,00                      | 47,50            | 10,00         | P9            |
| HTCR         | 28,00                      | 48,00            | 7,00          |               |
| TC5J         | 28,00                      | 48/52            | 7,00          |               |
| SB2          | 28,00                      | 48,00            | 11,00         | GD            |
| TB2          | 28,00                      | 48,00            | 11,00         | GD            |
| TBR          | 28,00                      | 48,00            | 11,00         | ND            |
| HTBL         | 28,00                      | 48,60            | 8,00          | GD            |
| TB           | 28,00                      | 48,80            | 8,00          | GD            |
| SCJ          | 28,00                      | 49,00            | 7,00          | SS            |
| VC2          | 28,00                      | 50,00            | 3,50          |               |
| VB2          | 28,00                      | 50,00            | 6,00          | GD            |
| TB2I         | 28,00                      | 50,00            | 8,00          | GD            |
| TCJ          | 28,00                      | 50,00            | 8,00          | SS            |
| HKAT         | 28,00                      | 50,00            | 11/13         | SSSND         |
| TBRJ         | 28,00                      | 52,00            | 8,00          | ND            |
| TC9Y         | 28,00                      | 52,00            | 9/11,5        | SS            |
| TC4P         | 28,00                      | 53,00            | 7/11          |               |
| Y7           | 28,00                      | 53,00            | 9,60          | ND            |
| SA2          | 28,00                      | 54,00            | 12,00         | ND            |
| TC42Y        | 28,00                      | 55,00            | 11/16         |               |
| HTCWR        | 28,00                      | 56,00            | 7,00          |               |
| DC           | 28,00                      | 56,00            | 8,00          |               |
| HTC42W       | 28,00                      | 56,00            | 10,00         |               |
| HTCI         | 28,00                      | 56,00            | 10,00         |               |
| OKB          | 28,00                      | 56,2/60          | 3/4,6         |               |
| TC7X         | 28,00                      | 58,50            | 10,5/14,5     |               |
| PY           | 28,00                      | 61,50            | 4,5/5,8       |               |
| DCY          | 28,00                      | 62,00            | 8,00          |               |
| HTCI         | 28,00                      | 70,00            | 10,00         |               |
| HTCWR        | 28,00                      | 70,00            | 10,00         |               |
| KCL          | 28,47                      | 36,50            | 7,50          |               |
| SCWP         | 28,50                      | 37,50            | 5,00          |               |
| HTCWR        | 28,50                      | 41,25            | 6,00          |               |
| SC4Y         | 28,50                      | 43,00            | 6,50          |               |
| TCY          | 28,55                      | 45,16            | 10,30         |               |
| SAVT         | 28,55                      | 50,77            | 9,50          | GD            |
| SAVT         | 28,55                      | 50,77            | 9,50          | GD            |
| SAVTY        | 28,55                      | 62,10            | 10,24         | ND            |
| VCHP         | 28,56                      | 42,00            | 5,50          |               |
| VCHPT        | 28,56                      | 42,00            | 5,50          |               |
| VBY          | 28,58                      | 33,91            | 3,96          | ND            |
| VBY          | 28,58                      | 33,91            | 3,96          | ND            |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| XICY1        | 28,58                      | 33,91/36,8       | 5,7/8,8       |               |
| XICY1        | 28,58                      | 33,91/37,6       | 8,3/12,7      |               |
| XICY3        | 28,58                      | 33,91            | 8,3/14,6      |               |
| VBY          | 28,58                      | 34,11            | 3,96          | ND            |
| XICY1        | 28,58                      | 34,54/36,8       | 3,3/6,4       |               |
| VCHPJ        | 28,58                      | 34,57            | 4,20          |               |
| VCY          | 28,58                      | 34,62            | 4,20          |               |
| KC           | 28,58                      | 34,93            | 4,80          |               |
| SC4          | 28,58                      | 34,93            | 4,80          | SS            |
| KCY          | 28,58                      | 36,51            | 5,3/7,6       |               |
| VBR          | 28,58                      | 36,53            | 5,50          | GD            |
| SC2          | 28,58                      | 37,50            | 5,00          |               |
| HSBRT        | 28,58                      | 37,70            | 7,00          | ND            |
| SBRY         | 28,58                      | 37,70            | 7,00          | ND            |
| SB           | 28,58                      | 38,07            | 4,80          | P2            |
| VBR          | 28,58                      | 38,10            | 4,80          | GD            |
| VBR          | 28,58                      | 38,10            | 4,80          | P7            |
| TC4Y         | 28,58                      | 38,10            | 5/5,5         |               |
| TCW          | 28,58                      | 38,10            | 6,00          |               |
| XICY         | 28,58                      | 38,1/44          | 6/10          |               |
| XICY2        | 28,58                      | 38,1/44          | 6/10          |               |
| KB           | 28,58                      | 38,10            | 6,40          | GD            |
| KC           | 28,58                      | 38,10            | 6,40          |               |
| TCI          | 28,58                      | 38,10            | 6,40          |               |
| TBY          | 28,58                      | 39,68            | 7,9/9,5       | SSP1          |
| SB           | 28,58                      | 39,69            | 6,40          | GD            |
| VB2          | 28,58                      | 39,69            | 6,40          | GD            |
| SA2          | 28,58                      | 39,70            | 9,50          | P0            |
| HSB2R        | 28,58                      | 41,25            | 4,80          | P0            |
| TB2          | 28,58                      | 41,25            | 6,40          | P0            |
| VB21         | 28,58                      | 41,25            | 6,40          | P2            |
| TA2          | 28,58                      | 41,25            | 7,90          | ND            |
| VCY          | 28,58                      | 41,28            | 3,30          |               |
| SB2          | 28,58                      | 41,28            | 4,80          | ND            |
| KC           | 28,58                      | 41,28            | 5,60          |               |
| HSB2L        | 28,58                      | 41,28            | 6,40          | ND            |
| KB2          | 28,58                      | 41,28            | 6,40          | GD            |
| SA2Y         | 28,58                      | 41,28            | 6,40          | SSSGD         |
| SB           | 28,58                      | 41,28            | 6,40          | SSSGD         |
| SB2          | 28,58                      | 41,28            | 6,40          | P2            |
| TB2          | 28,58                      | 41,28            | 6,40          | GD            |
| TB2P         | 28,58                      | 41,28            | 6,40          | SSP5          |
| DBYJ         | 28,58                      | 41,28            | 7/11,4        | SSSGD         |
| DCY          | 28,58                      | 41,28            | 7/11,5        | SSS           |
| SB           | 28,58                      | 41,28            | 7,90          | SSND          |
| SB           | 28,58                      | 41,28            | 9,50          | GD            |
| TB21         | 28,58                      | 41,30            | 6,40          | P2            |
| SCT          | 28,58                      | 41,40            | 7,90          |               |
| SCY          | 28,58                      | 41,40            | 7,90          |               |
| SB           | 28,58                      | 42,20            | 7,90          | GD            |
| OKCL3        | 28,58                      | 42,86            | 6,40          |               |
| TBC4W        | 28,58                      | 43,33            | 11,70         | ND            |
| TBCW4        | 28,58                      | 43,33            | 11,70         | ND            |
| BU           | 28,58                      | 43,33            | 12,70         | GD            |
| SB           | 28,58                      | 44,45            | 6,40          | GD            |
| TB2          | 28,58                      | 44,50            | 6,40          | P2            |
| SB2          | 28,58                      | 44,50            | 11,10         | P2RD          |
| TB           | 28,58                      | 44,50            | 11,10         | GD            |
| KC           | 28,58                      | 45,16            | 10,30         |               |
| KBY          | 28,58                      | 45,21            | 11,90         | ND            |
| VBY          | 28,58                      | 45,24            | 7,90          | GD            |
| VB18         | 28,58                      | 45,24            | 11,90         | ND            |
| VB2Y         | 28,58                      | 45,24            | 11,90         | GD            |
| TB           | 28,58                      | 46,43            | 6,40          | GD            |
| TBCW4        | 28,58                      | 46,58            | 11,70         | ND            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| BU           | 28,58                      | 46,61            | 12,70         | GD            |
| TCE          | 28,58                      | 47,00            | 6,40          |               |
| SB2          | 28,58                      | 47,00            | 11,10         | ND            |
| SB2          | 28,58                      | 47,60            | 6,40          | P2            |
| TB2          | 28,58                      | 47,60            | 6,40          | SSP5RD        |
| TB40         | 28,58                      | 47,60            | 6,40          | P2            |
| TB2          | 28,58                      | 47,60            | 11,10         | P0            |
| TB2          | 28,58                      | 47,63            | 6,40          | GD            |
| VBRP         | 28,58                      | 47,63            | 6,40          | ND            |
| SB2          | 28,58                      | 47,63            | 9,50          | SSND          |
| TBCW4        | 28,58                      | 47,63            | 11,70         | ND            |
| TBCW4        | 28,58                      | 47,63            | 11,70         | ND            |
| BU           | 28,58                      | 47,63            | 12,70         | GD            |
| KB2          | 28,58                      | 49,21            | 8,70          | P2            |
| VBRY         | 28,58                      | 49,21            | 15,88         | ND            |
| TB2          | 28,58                      | 50,37            | 6,40          | P7            |
| TB2          | 28,58                      | 50,80            | 6,40          | GD            |
| TBY          | 28,58                      | 50,80            | 6,40          | SSND          |
| SB2          | 28,58                      | 50,80            | 9,50          | GD            |
| TB2          | 28,58                      | 50,80            | 9,50          | GD            |
| TB2          | 28,58                      | 50,80            | 9,50          | P7            |
| TA2          | 28,58                      | 50,80            | 10,30         | ND            |
| TB2          | 28,58                      | 50,80            | 11,10         | P0            |
| VB21         | 28,58                      | 51,99            | 6,40          | ND            |
| TBCWI        | 28,58                      | 52,00            | 7,90          | NDLF          |
| TB2          | 28,58                      | 52,39            | 6,40          | P0            |
| SB2          | 28,58                      | 52,39            | 9,50          | ND            |
| SB2          | 28,58                      | 53,98            | 6,40          | P2            |
| SB2          | 28,58                      | 53,98            | 7,90          | GD            |
| SA2Y         | 28,58                      | 53,98            | 9,5/19,5      | GD            |
| TC40         | 28,58                      | 61,98            | 7,90          | SS            |
| TB2          | 28,58                      | 62,00            | 9,50          | P2RD          |
| HTB5R        | 28,58                      | 62,31/68,5       | 12,70         | P0            |
| TB2I         | 28,58                      | 63,50            | 9,50          | GD            |
| TB2          | 28,58                      | 72,00            | 9,50          | P5            |
| TC40         | 28,58                      | 72,01            | 8,00          | SS            |
| VAT          | 28,60                      | 37,55            | 6,40          | P2            |
| VAT          | 28,60                      | 37,55            | 6,40          | P2            |
| XICY2        | 28,60                      | 38/42            | 8,5/12,5      |               |
| XICY2        | 28,60                      | 38/42            | 8,5/12,5      |               |
| VCY          | 28,60                      | 39,73            | 7,90          |               |
| SB           | 28,60                      | 40,00            | 5,00          | ND            |
| HTCR         | 28,60                      | 40,00            | 8,00          |               |
| HTB2R        | 28,60                      | 43,00            | 6,50          | GD            |
| TB           | 28,60                      | 43,00            | 6,50          | GD            |
| SA2          | 28,60                      | 52,39            | 11,10         | GD            |
| TB2          | 28,60                      | 52,39            | 11,10         | P0            |
| KC           | 29,00                      | 35,00            | 4,40          |               |
| TB           | 29,00                      | 36,00            | 7,00          | GD            |
| UPH          | 29,00                      | 38,00            | 5,00          |               |
| TBC4         | 29,00                      | 40,00            | 8,00          | ND            |
| TB           | 29,00                      | 41,00            | 7,00          | GD            |
| HTCL         | 29,00                      | 43,00            | 8,00          |               |
| TC5          | 29,00                      | 44,04/48         | 6,4/7,9       | SS            |
| TC5          | 29,00                      | 44,04/48         | 7/8,5         | SS            |
| TC5          | 29,00                      | 44,04/48         | 10/11,5       | SS            |
| TC5          | 29,00                      | 44,04/48         | 10/11,5       | SS            |
| HTCL         | 29,00                      | 45,00            | 8,00          |               |
| TB2          | 29,00                      | 45,00            | 8,00          | GD            |
| SB2          | 29,00                      | 45,00            | 10,00         | ND            |
| OVY          | 29,00                      | 46,25            | 4,7/4,9       |               |
| HTCR         | 29,00                      | 47,00            | 10,00         |               |
| HTB5Y        | 29,00                      | 48/58            | 17/23,5       | P0            |
| VC5Y         | 29,00                      | 48,50            | 10,70         |               |
| HTCL         | 29,00                      | 50,00            | 9,00          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TA2          | 29,00                      | 50,00            | 10,00         | GD            |
| TA2          | 29,00                      | 52,00            | 10,00         | GD            |
| TBC16        | 29,00                      | 62,00            | 12,50         | NDGR          |
| TC57         | 29,30                      | 44,45            | 13,70         | NDGR          |
| TBRV         | 29,36                      | 42,83            | 7,90          | GD            |
| SA2          | 29,36                      | 47,59            | 6,40          | P2            |
| SA2          | 29,36                      | 47,60            | 4,00          | ND            |
| TB2          | 29,36                      | 50,39            | 6,40          | P2            |
| TB2          | 29,36                      | 50,80            | 7,90          | P2            |
| SA2          | 29,37                      | 46,43            | 9,50          | GD            |
| TB2          | 29,37                      | 47,63            | 6,40          | P2            |
| VAT2         | 29,37                      | 47,63            | 8,70          | ND            |
| HSB2I        | 29,37                      | 50,00            | 6,70          | P0            |
| SA2          | 29,37                      | 57,15            | 12,70         | P0            |
| TB           | 29,40                      | 44,50            | 7,90          | GD            |
| TB2          | 29,40                      | 44,50            | 7,90          | P0RD          |
| SB2          | 29,40                      | 47,60            | 6,40          | P5RD          |
| SB2          | 29,40                      | 47,60            | 6,40          | P5RD          |
| TBC16        | 29,40                      | 52,00            | 13,50         | NDGR          |
| SA2          | 29,72                      | 51,59            | 9,50          | P0            |
| SBS          | 29,85                      | 44,98            | 7,00          | P2            |
| SB2          | 29,85                      | 46,43            | 9,50          | GD            |
| SCE          | 29,85                      | 46,46            | 9,50          |               |
| SCE          | 29,85                      | 46,46            | 9,50          |               |
| TCE          | 29,85                      | 46,46            | 9,50          |               |
| TCEA         | 29,85                      | 46,46            | 9,50          |               |
| HTCWR        | 29,85                      | 47,00            | 10/17         | GR            |
| HTCAY        | 29,85                      | 47,00            | 11,30         |               |
| HTCWR        | 29,85                      | 47,00            | 11,30         |               |
| HSBCWR       | 29,90                      | 47,00            | 8/7           | SSND          |
| HTCWRJ       | 29,90                      | 47,00            | 11,30         |               |
| SBS          | 29,92                      | 52,65/59,3       | 8,50          | P0            |
| HTBL         | 29,97                      | 43,69            | 12,70         | GD            |
| SL3          | 30,00                      | 35/47            | 9/12          | GD            |
| SL           | 30,00                      | 35/54,5          | 10/16         | GD            |
| SL5          | 30,00                      | 35/49            | 16/19         | GD            |
| SL           | 30,00                      | 35/50            | 19,00         | GD            |
| OVY          | 30,00                      | 35,1/50          | 11,00         |               |
| XICY1        | 30,00                      | 35,43/38,4       | 5,7/9         |               |
| XICY1        | 30,00                      | 35,43/38,4       | 5,7/9         |               |
| XICY1        | 30,00                      | 35,5/40,4        | 8,3/13,3      |               |
| SL3          | 30,00                      | 36/56            | 15,5/21       | GD            |
| SL3          | 30,00                      | 36/55            | 15,5/22,5     | GD            |
| SL3          | 30,00                      | 36/56            | 15,7/20,2     | GD            |
| SL5          | 30,00                      | 36/55,5          | 16/18         | GD            |
| SCY          | 30,00                      | 37,00            | 3,5/6,5       |               |
| KB           | 30,00                      | 37,00            | 4,00          | ND            |
| KC           | 30,00                      | 37,00            | 4,00          |               |
| UPI          | 30,00                      | 37,00            | 6,00          |               |
| TB           | 30,00                      | 37,00            | 6,50          | GD            |
| KC           | 30,00                      | 37,00            | 7,00          |               |
| SL3          | 30,00                      | 37/65            | 15/22,5       | GD            |
| SL5          | 30,00                      | 37/57            | 18,00         | GD            |
| LBH          | 30,00                      | 38,00            | 5/6,5         |               |
| LBH          | 30,00                      | 38,00            | 5/6,5         |               |
| KCY          | 30,00                      | 38,00            | 7,00          |               |
| XICY2        | 30,00                      | 38/43,5          | 8,5/12,5      |               |
| XICY2        | 30,00                      | 38/43,5          | 10/14         |               |
| VBV          | 30,00                      | 39,00            | 5,00          | ND            |
| XICY6        | 30,00                      | 39/43            | 5,6/16        | SS            |
| XICY6        | 30,00                      | 39/43            | 5,6/16        | SS            |
| VBY          | 30,00                      | 39,50            | 5,5/7,3       | ND            |
| VAY          | 30,00                      | 40,00            | 4,00          | ND            |
| VBX          | 30,00                      | 40,00            | 5,00          | ND            |
| VBY          | 30,00                      | 40,00            | 5,00          | ND            |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br><i>Notes</i> |
|--------------|-----------------------------------|----------------------------|-------------------------|----------------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |                      |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |                      |
| HSCWR        | 30,00                             | 40,00                      | 7,00                    |                      |
| HTBCL        | 30,00                             | 40,00                      | 7,00                    | ND                   |
| HTCWI        | 30,00                             | 40,00                      | 7,00                    |                      |
| SB           | 30,00                             | 40,00                      | 7,00                    | SSGD                 |
| SCI          | 30,00                             | 40,00                      | 7,00                    | SS                   |
| SCW          | 30,00                             | 40,00                      | 7,00                    | SS                   |
| SCXS         | 30,00                             | 40,00                      | 7,00                    |                      |
| TB           | 30,00                             | 40,00                      | 7,00                    | P2RD                 |
| TC4          | 30,00                             | 40,00                      | 7,00                    |                      |
| TCI          | 30,00                             | 40,00                      | 7,00                    |                      |
| TCJ          | 30,00                             | 40,00                      | 7,00                    | SS                   |
| XICY11       | 30,00                             | 40/43,5                    | 7/12,5                  |                      |
| ACL          | 30,00                             | 40,00                      | 8/9                     |                      |
| ACL          | 30,00                             | 40,00                      | 8/9                     |                      |
| SB           | 30,00                             | 40,00                      | 8,00                    | GD                   |
| TC3          | 30,00                             | 40,00                      | 8,00                    |                      |
| TC40         | 30,00                             | 40,00                      | 8,00                    |                      |
| TCY          | 30,00                             | 40,00                      | 8/10                    |                      |
| DC           | 30,00                             | 40,00                      | 10,00                   |                      |
| HTCI         | 30,00                             | 40,00                      | 10/12,5                 | GR                   |
| TB           | 30,00                             | 40,00                      | 10,00                   | GD                   |
| TB4          | 30,00                             | 40,00                      | 10,50                   | GD                   |
| HTBL         | 30,00                             | 40,40                      | 8,00                    | GD                   |
| DC4          | 30,00                             | 40,50                      | 10,50                   | SS                   |
| TB4          | 30,00                             | 40,50                      | 10,50                   | GD                   |
| TC4          | 30,00                             | 40,50                      | 10,50                   |                      |
| TCL          | 30,00                             | 40,50                      | 10,5/12                 |                      |
| XICY         | 30,00                             | 40,7/45                    | 4,7/14                  |                      |
| XICY1        | 30,00                             | 40,7/44,5                  | 5/12                    |                      |
| XICY9        | 30,00                             | 40,7/45                    | 5/11,5                  | SS                   |
| SC4          | 30,00                             | 41,00                      | 7,00                    |                      |
| TBR          | 30,00                             | 41,00                      | 7,00                    | GD                   |
| HTBRL        | 30,00                             | 41,00                      | 8,00                    | ND                   |
| HTCR         | 30,00                             | 41,00                      | 8,00                    |                      |
| DC4          | 30,00                             | 41,00                      | 10,00                   | SS                   |
| HTBRL        | 30,00                             | 41,00                      | 10,00                   | ND                   |
| HTCL         | 30,00                             | 41,00                      | 10,00                   |                      |
| PY           | 30,00                             | 41,00                      | 10,00                   |                      |
| PY           | 30,00                             | 41,50                      | 4/7                     |                      |
| VBV          | 30,00                             | 41,50                      | 7/9                     | ND                   |
| OKB          | 30,00                             | 41,75/51                   | 4,00                    | ND                   |
| OKB          | 30,00                             | 41,8/52                    | 4,5/6                   | ND                   |
| XICY8        | 30,00                             | 42/48                      | 5/12                    | SS                   |
| DKI          | 30,00                             | 42,00                      | 6/9                     | ND                   |
| SB           | 30,00                             | 42,00                      | 6,00                    | GD                   |
| TB2          | 30,00                             | 42,00                      | 6,00                    | GD                   |
| TCW          | 30,00                             | 42,00                      | 6,00                    |                      |
| VB4R         | 30,00                             | 42,00                      | 6,00                    | ND                   |
| DC           | 30,00                             | 42,00                      | 7,00                    |                      |
| HTBCR        | 30,00                             | 42,00                      | 7,00                    | NDGR                 |
| HTCR         | 30,00                             | 42,00                      | 7,00                    |                      |
| HTCWR        | 30,00                             | 42,00                      | 7,00                    |                      |
| KC           | 30,00                             | 42,00                      | 7,00                    | GRLF                 |
| SB2          | 30,00                             | 42,00                      | 7,00                    | ND                   |
| SBR          | 30,00                             | 42,00                      | 7,00                    | ND                   |
| TB           | 30,00                             | 42,00                      | 7,00                    | GD                   |
| TB4Y         | 30,00                             | 42,00                      | 7/8                     | ND                   |
| TC4          | 30,00                             | 42,00                      | 7,00                    |                      |
| TCI          | 30,00                             | 42,00                      | 7,00                    |                      |
| HTCL         | 30,00                             | 42,00                      | 8,00                    |                      |
| HTCR         | 30,00                             | 42,00                      | 8,00                    |                      |
| HTCR         | 30,00                             | 42,00                      | 8,00                    |                      |
| KC42         | 30,00                             | 42,00                      | 8/9                     |                      |
| SCT          | 30,00                             | 42,00                      | 8,00                    |                      |
| SCY          | 30,00                             | 42,00                      | 8,00                    |                      |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| DKI          | 30,00                      | 42,00            | 9,00          | GD            |
| TB4          | 30,00                      | 42,00            | 10,50         |               |
| TC4          | 30,00                      | 42,00            | 10,50         |               |
| DC4          | 30,00                      | 42,00            | 11,00         | SSGR1         |
| TC4          | 30,00                      | 42,00            | 11,00         |               |
| XICY         | 30,00                      | 42,3/47          | 5,6/14        |               |
| SCSWT        | 30,00                      | 42,5/49          | 7,4/10,9      |               |
| SC5Y         | 30,00                      | 42,5/49          | 7,4/10,9      |               |
| HTC3SL       | 30,00                      | 42,5/44,5        | 8,00          |               |
| HTCR         | 30,00                      | 42,60            | 8,00          |               |
| TB           | 30,00                      | 42,86            | 6,40          | SSSGD         |
| SC4          | 30,00                      | 43,00            | 6,50          |               |
| HTCR         | 30,00                      | 43,00            | 7,00          |               |
| TCE          | 30,00                      | 43,00            | 7,00          |               |
| SB2          | 30,00                      | 43,00            | 8,00          | ND            |
| SCT          | 30,00                      | 43,00            | 8,00          |               |
| SCY          | 30,00                      | 43,00            | 8,00          |               |
| TC4          | 30,00                      | 43,00            | 8,50          |               |
| SB5Y         | 30,00                      | 43,7/47          | 5,00          | SSPO          |
| Y            | 30,00                      | 44,00            | 6,50          |               |
| HTBCR        | 30,00                      | 44,00            | 7,00          | NDGR          |
| HTCR         | 30,00                      | 44,00            | 7,00          |               |
| HTCR         | 30,00                      | 44,00            | 7,00          |               |
| TBR          | 30,00                      | 44,00            | 7,00          | GD            |
| TC42         | 30,00                      | 44,00            | 8/10,5        |               |
| TCJ          | 30,00                      | 44,00            | 8,00          | SS            |
| HTCR         | 30,00                      | 44,00            | 9,00          |               |
| SB           | 30,00                      | 44,00            | 9,00          | GD            |
| VCY          | 30,00                      | 45,00            | 3,50          |               |
| TCW          | 30,00                      | 45,00            | 5,00          |               |
| TB2          | 30,00                      | 45,00            | 6,00          | GD            |
| HTCR         | 30,00                      | 45,00            | 7,00          |               |
| SB2          | 30,00                      | 45,00            | 7,00          | GD            |
| TC42         | 30,00                      | 45,00            | 7,00          |               |
| HSCSL        | 30,00                      | 45/47            | 8,00          |               |
| HSCR         | 30,00                      | 45,00            | 8,00          |               |
| HTC3R        | 30,00                      | 45,00            | 8,00          |               |
| HTCR         | 30,00                      | 45,00            | 8,00          |               |
| SB2          | 30,00                      | 45,00            | 8,00          | ND            |
| TB2          | 30,00                      | 45,00            | 8,00          |               |
| TCJ          | 30,00                      | 45,00            | 8,00          | SS            |
| Y            | 30,00                      | 45,00            | 8/30          |               |
| SC2J         | 30,00                      | 45,00            | 9,00          | SS            |
| SCAJ         | 30,00                      | 45,00            | 9,00          |               |
| Y            | 30,00                      | 45/62            | 15/41         |               |
| Y            | 30,00                      | 45/77            | 15/44         |               |
| HTCR         | 30,00                      | 46,00            | 7,00          | GR            |
| HTCL         | 30,00                      | 46,00            | 8,00          |               |
| HTCR         | 30,00                      | 46,00            | 8,00          |               |
| SCWT         | 30,00                      | 46,00            | 8,00          |               |
| SCY          | 30,00                      | 46,00            | 8,00          |               |
| SCY          | 30,00                      | 46,50            | 8,00          |               |
| BA           | 30,00                      | 47,00            | 6,00          |               |
| SCJ          | 30,00                      | 47,00            | 6,00          |               |
| VBR          | 30,00                      | 47,00            | 6,00          |               |
| SB2          | 30,00                      | 47,00            | 6,50          | P2            |
| SSGD         | 30,00                      | 47,00            | 7,00          |               |
| HTCL         | 30,00                      | 47,00            | 7,00          |               |
| SCI          | 30,00                      | 47,00            | 7,00          | SS            |
| TB           | 30,00                      | 47,00            | 7,00          |               |
| TBRJ         | 30,00                      | 47,00            | 7,00          | SSND          |
| SB2          | 30,00                      | 47,00            | 8,00          |               |
| GD           | 30,00                      | 47,00            | 8,00          |               |
| HSCR         | 30,00                      | 47,00            | 8,50          |               |
| SC2          | 30,00                      | 47,00            | 9,00          | SS            |
| SS           | 30,00                      | 47,00            | 9/10,5        |               |
| SCT          | 30,00                      | 47,00            | 9,00          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SCY          | 30,00                      | 47,00            | 9,00          | GR            |
| DC           | 30,00                      | 47,00            | 10,00         | SS            |
| HTCW         | 30,00                      | 47,00            | 10,00         |               |
| SA2          | 30,00                      | 47,00            | 10,00         | GD            |
| TC6Y         | 30,00                      | 47,00            | 10,00         |               |
| DCP          | 30,00                      | 47,00            | 12,00         |               |
| TB2          | 30,00                      | 47,50            | 10,00         | P9            |
| VBR          | 30,00                      | 47,57            | 6,40          | ND            |
| SCW          | 30,00                      | 47,90            | 8,00          | SSLF          |
| TBR          | 30,00                      | 48,00            | 7,00          | GD            |
| HTCR         | 30,00                      | 48,00            | 8,00          |               |
| SCW          | 30,00                      | 48,00            | 8,00          | SS            |
| SCWY         | 30,00                      | 48/48,5          | 8,00          |               |
| SCT          | 30,00                      | 48,00            | 8,50          |               |
| SCY          | 30,00                      | 48,00            | 8,50          |               |
| VBY          | 30,00                      | 49/61,8          | 5,00          | ND            |
| OVY          | 30,00                      | 49,00            | 25,50         | ND            |
| HSB2         | 30,00                      | 50,00            | 7,00          | SSPO          |
| SCJ          | 30,00                      | 50,00            | 7,00          | SS            |
| SCY          | 30,00                      | 50,00            | 7,00          | SS            |
| TCJ          | 30,00                      | 50,00            | 8,00          |               |
| SCY          | 30,00                      | 50,00            | 8,50          |               |
| TCI          | 30,00                      | 50,00            | 9,00          |               |
| DC           | 30,00                      | 50,00            | 10,00         |               |
| TC5          | 30,00                      | 50/57            | 10,00         |               |
| SB2          | 30,00                      | 50,00            | 11,00         | GD            |
| TB2          | 30,00                      | 50,00            | 11,00         | GD            |
| SB2          | 30,00                      | 50,00            | 12,00         | GD            |
| KCY          | 30,00                      | 50,00            | 13,20         | ND            |
| OVY          | 30,00                      | 51/54            | 4,50          | ND            |
| OVY          | 30,00                      | 52,00            | 2,7/6         |               |
| OVY          | 30,00                      | 52,00            | 3,50          | ND            |
| SCI          | 30,00                      | 52,00            | 5,00          | SS            |
| HSB2R        | 30,00                      | 52,00            | 7,00          | ND            |
| HTBCWR       | 30,00                      | 52,00            | 7,00          | ND            |
| HTCWL        | 30,00                      | 52,00            | 7,00          |               |
| SB2          | 30,00                      | 52,00            | 7,00          | GD            |
| SCI          | 30,00                      | 52,00            | 7,00          | SS            |
| TB2          | 30,00                      | 52,00            | 7,00          | GD            |
| TC5WY        | 30,00                      | 52/65            | 7/10          | SS            |
| TCI          | 30,00                      | 52,00            | 7,00          |               |
| TCW          | 30,00                      | 52,00            | 7,00          | SSLF          |
| VB21         | 30,00                      | 52,00            | 7,00          | ND            |
| HTCR         | 30,00                      | 52,00            | 8,00          |               |
| SB2          | 30,00                      | 52,00            | 8,00          | P5            |
| TCLWY        | 30,00                      | 52/62            | 8/12          | SS            |
| SA2          | 30,00                      | 52,00            | 9,00          | GD            |
| KC7Y         | 30,00                      | 52,00            | 10/12         |               |
| TB2          | 30,00                      | 52,00            | 10,00         | GD            |
| TCLW         | 30,00                      | 52,00            | 10/12         | SS            |
| KC3S         | 30,00                      | 52/58            | 11,00         | GR            |
| TCA          | 30,00                      | 52,00            | 11/13         | SSLF          |
| TCASY        | 30,00                      | 52/60            | 11/15         | SS            |
| TCAW         | 30,00                      | 52,00            | 11/12,5       | SSGR1F        |
| VC5Y         | 30,00                      | 52/60            | 11/15         |               |
| VCY          | 30,00                      | 52,00            | 11/13         | LF            |
| KCFA         | 30,00                      | 52/58            | 12,00         | GR            |
| TC5A         | 30,00                      | 53/60            | 10/13         |               |
| VC5Y         | 30,00                      | 53/60            | 10/13         |               |
| TCLW         | 30,00                      | 53,50            | 10/14         |               |
| TCLW         | 30,00                      | 53,50            | 12/17,5       |               |
| HTCR         | 30,00                      | 54,00            | 9,00          |               |
| SCY          | 30,00                      | 55,00            | 7,00          | SS            |
| TB2          | 30,00                      | 55,00            | 7,00          | GD            |
| TB2          | 30,00                      | 55,00            | 8,00          | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| DCYJ         | 30,00                      | 55,00               | 10,00            |               |
| HTCR         | 30,00                      | 55,00               | 10,00            |               |
| SC5XJ        | 30,00                      | 55/59               | 10,00            |               |
| TCW          | 30,00                      | 55,00               | 10/12            | SS            |
| HTCR         | 30,00                      | 55,00               | 12,00            |               |
| SB2          | 30,00                      | 55,00               | 12,00            | GD            |
| OVY          | 30,00                      | 58,00               | 5/9,5            | SUS           |
| SBY          | 30,00                      | 58,00               | 9/23             | NDRD          |
| HTA5Y        | 30,00                      | 58/63,5             | 9,5/13,86        |               |
| HTB5         | 30,00                      | 58/63,5             | 9,50             | P0            |
| TB2          | 30,00                      | 60,00               | 8,00             | GD            |
| TC7X         | 30,00                      | 61,20               | 9/13             |               |
| TCY          | 30,00                      | 62,00               | 3,5/4,5          |               |
| TCY          | 30,00                      | 62,00               | 3,5/4,5          |               |
| DCY          | 30,00                      | 62/63,5             | 6/10             | SS            |
| TB2          | 30,00                      | 62,00               | 6,00             | GD            |
| DC           | 30,00                      | 62,00               | 7,00             |               |
| SCF          | 30,00                      | 62,00               | 7,00             | SS            |
| TCY          | 30,00                      | 62,00               | 7/8              | SS            |
| TCY          | 30,00                      | 62,00               | 7,00             | SS            |
| TCYJ         | 30,00                      | 62/63,5             | 7/8              |               |
| TCYJ         | 30,00                      | 62,00               | 7/8              | SS            |
| TC3I         | 30,00                      | 62,00               | 7,5/9,5          |               |
| TC7Y         | 30,00                      | 62,00               | 8/14             | SS            |
| TCY          | 30,00                      | 62/63,5             | 8,00             | SS            |
| TCY          | 30,00                      | 62,00               | 8,00             | SS            |
| DCY          | 30,00                      | 62,00               | 9,00             | SS            |
| TA7Y         | 30,00                      | 62,00               | 9/15             | SSS           |
| TC5WY        | 30,00                      | 62/69               | 9,5/16           | SS            |
| DCY          | 30,00                      | 62/63               | 10,00            | SS            |
| SB2          | 30,00                      | 62,00               | 10,00            | GD            |
| SCI          | 30,00                      | 62,00               | 10,00            | SS            |
| TCY          | 30,00                      | 62,00               | 10,00            | SS            |
| TCY          | 30,00                      | 64,00               | 5/7,5            |               |
| DCY          | 30,00                      | 64,00               | 11/15,3          | SS            |
| MG5          | 30,00                      | 64,5/68             | 8,5/11,5         |               |
| BE           | 30,00                      | 67,00               | 7,00             |               |
| TB2I         | 30,00                      | 68,00               | 8,00             | GD            |
| TC42Y        | 30,00                      | 70,00               | 11/15            | SS            |
| SCB          | 30,00                      | 72,00               | 6,00             | SSND          |
| TC5          | 30,00                      | 72/76               | 7,00             | SS            |
| TC5J         | 30,00                      | 72/76               | 7,00             | SS            |
| TCJ          | 30,00                      | 72,00               | 7,00             | SS            |
| HTCWR        | 30,00                      | 72,00               | 8,00             |               |
| DCY          | 30,00                      | 72/73               | 10,00            | SS            |
| SA2          | 30,00                      | 72,00               | 10,00            | GD            |
| TA2Y         | 30,00                      | 72,00               | 10,00            | ND            |
| DC5AJ        | 30,00                      | 75/79               | 9/11             |               |
| SC5XJ        | 30,00                      | 75/79               | 9/11             |               |
| TC5Y         | 30,00                      | 75/79               | 9/11             |               |
| SB2          | 30,05                      | 46,51               | 6,40             | P5RD          |
| UP           | 30,16                      | 38,10               | 5,00             |               |
| SA2Y         | 30,16                      | 41,10               | 7/8              | SSSND         |
| DB           | 30,16                      | 41,10               | 9,00             | SSSND         |
| SBR          | 30,16                      | 42,30               | 7,70             | SSSND         |
| SBR          | 30,16                      | 42,82               | 6,40             | GD            |
| SCF          | 30,16                      | 42,82               | 6,40             | SSS           |
| SB           | 30,16                      | 42,82               | 9,50             | P2            |
| DA5Y         | 30,16                      | 42,82/49,21         | 15,80            | SSS           |
| SB           | 30,16                      | 42,86               | 6,40             | P0            |
| SBA          | 30,16                      | 42,86               | 6,40             | SSSGD         |
| SBY          | 30,16                      | 42,86               | 6,40             | SSSGD         |
| SB2          | 30,16                      | 42,86               | 7,90             | SSSGD         |
| SBR          | 30,16                      | 42,86               | 7,90             | SSND          |
| TBR          | 30,16                      | 42,86               | 7,90             | ND            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SA2Y         | 30,16                      | 42,86            | 9,50          | SSSGD         |
| SB           | 30,16                      | 42,86            | 9,50          | GD            |
| TB           | 30,16                      | 42,86            | 9,50          | GD            |
| TBR          | 30,16                      | 42,93            | 7,90          | ND            |
| SB2          | 30,16                      | 42,95            | 6,40          | GD            |
| TB           | 30,16                      | 43,18            | 6,40          | GD            |
| TBCW4        | 30,16                      | 43,33            | 11,70         | ND            |
| BU           | 30,16                      | 43,33            | 12,70         | GD            |
| TBR          | 30,16                      | 43,50            | 12,70         | ND            |
| SBRY         | 30,16                      | 43,60            | 6,30          | ND            |
| SA2Y         | 30,16                      | 44,45            | 9,00          | SSSND         |
| DC           | 30,16                      | 44,45            | 11,1/15       | GR            |
| DCX          | 30,16                      | 44,45            | 11,10         | SSGR          |
| TB2          | 30,16                      | 44,50            | 6,40          | P2            |
| TB2          | 30,16                      | 46,43            | 9,50          | P0            |
| BU           | 30,16                      | 46,61            | 12,70         | GD            |
| SB2          | 30,16                      | 47,63            | 6,40          | P5RD          |
| SBR          | 30,16                      | 47,63            | 6,40          | SSGD          |
| SCWJ         | 30,16                      | 47,63            | 6,40          | SS            |
| BU           | 30,16                      | 47,63            | 12,70         | GD            |
| BU           | 30,16                      | 47,63            | 12,70         | GD            |
| TB2          | 30,16                      | 50,37            | 6,40          | ND            |
| TB2          | 30,16                      | 50,37            | 9,50          | P0            |
| VBRX         | 30,16                      | 50,70            | 6,40          | ND            |
| SB2          | 30,16                      | 50,80            | 6,40          | P2            |
| TB2          | 30,16                      | 50,80            | 6,40          | ND            |
| TCE          | 30,16                      | 50,80            | 6,40          |               |
| VAT2         | 30,16                      | 50,80            | 8,70          | ND            |
| TB2          | 30,16                      | 50,80            | 11,10         | ND            |
| SB2          | 30,16                      | 52,39            | 6,40          | P2            |
| TB2          | 30,16                      | 52,39            | 6,40          | P0            |
| TB2I         | 30,16                      | 53,98            | 9,50          | GD            |
| TB2I         | 30,16                      | 57,15            | 9,50          | GD            |
| TA2          | 30,16                      | 57,15            | 12,70         | GD            |
| TA2          | 30,16                      | 61,91            | 11,80         | P2            |
| TB2          | 30,16                      | 62,00            | 9,50          | P0            |
| TBCW4        | 30,18                      | 46,58            | 11,68         | ND            |
| TBCW4        | 30,18                      | 47,63            | 11,70         | ND            |
| TBCW4        | 30,18                      | 47,63            | 11,70         | ND            |
| HTB5Y        | 30,30                      | 48/58            | 16,3/23,5     | P0            |
| HTB5Y        | 30,30                      | 48/58            | 16,3/22       | SSP0          |
| OKB          | 30,50                      | 38,8/47          | 1,8/3         | ND            |
| VBYJ         | 30,50                      | 40,00            | 2,50          | ND            |
| TB2          | 30,50                      | 44,50            | 6,40          | P0            |
| OVY          | 30,60                      | 56,80            | 14,60         |               |
| OVC          | 30,70                      | 49,5/54          | 15,00         | ND            |
| VB2          | 30,94                      | 50,00            | 11,90         | GD            |
| SCY          | 30,96                      | 42,82            | 7,90          |               |
| TC7          | 30,96                      | 47,63            | 9,5/12,7      |               |
| VB2          | 30,96                      | 50,27            | 6,40          | P2            |
| KB2          | 30,96                      | 50,27            | 10,30         | GD            |
| KBY          | 30,96                      | 50,27            | 12,10         | NDRD          |
| TB2          | 30,96                      | 50,34            | 9,00          | GD            |
| TC42W        | 30,96                      | 50,37            | 8,90          |               |
| SA2          | 30,96                      | 50,37            | 11,10         | P0            |
| HTB5I        | 30,96                      | 52/59            | 9,90          | P0            |
| DA2          | 30,96                      | 53,98            | 17,50         | GD            |
| TC4Y         | 31,00                      | 39,50            | 6,5/8,5       |               |
| VB7          | 31,00                      | 39,9/42,8        | 5/8,8         | ND            |
| HTC45L       | 31,00                      | 40/43            | 6,7/8,2       |               |
| HTCL         | 31,00                      | 40,00            | 7,00          |               |
| XICY         | 31,00                      | 41/46            | 3/10          |               |
| TC4          | 31,00                      | 41,00            | 9,10          |               |
| TCL          | 31,00                      | 41,00            | 9,1/11        |               |
| SCA          | 31,00                      | 43,00            | 6,00          | SSS           |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SBA          | 31,00                      | 43,00            | 7,2/11        | SSS           |
| SCY          | 31,00                      | 43,00            | 9,00          |               |
| TC4          | 31,00                      | 43,00            | 10,00         |               |
| DC4          | 31,00                      | 43,00            | 10,30         | SSGR1         |
| SCY          | 31,00                      | 43,00            | 12,50         |               |
| TC4L         | 31,00                      | 43,00            | 12,5/14,5     |               |
| TC6A         | 31,00                      | 43,00            | 12,5/14,5     |               |
| XICY         | 31,00                      | 43,3/47,2        | 5,6/13        |               |
| SCST         | 31,00                      | 43,8/48          | 4,2/8,5       |               |
| SCSY         | 31,00                      | 43,8/48          | 4,2/8,5       |               |
| SCWT         | 31,00                      | 43,80            | 6,50          |               |
| SCWY         | 31,00                      | 43,80            | 6,50          |               |
| SC4          | 31,00                      | 44,20            | 6,50          |               |
| SCWT         | 31,00                      | 44,50            | 7,50          |               |
| SCWY         | 31,00                      | 44,50            | 7,50          |               |
| HTCL         | 31,00                      | 46,00            | 7,00          |               |
| HTCL         | 31,00                      | 46,00            | 8,00          |               |
| SCWT         | 31,00                      | 47,80            | 7,50          |               |
| SCWY         | 31,00                      | 47,80            | 7,50          |               |
| HTCR         | 31,00                      | 48,00            | 10,00         |               |
| HTBCR        | 31,00                      | 50,00            | 8,00          |               |
| HTBCR        | 31,00                      | 50,00            | 8,00          | NDGR          |
| HTCR         | 31,00                      | 50,00            | 8,00          |               |
| HTCYR        | 31,00                      | 50,00            | 8,00          |               |
| VB2          | 31,00                      | 52,00            | 7,00          | ND            |
| DC           | 31,00                      | 58,00            | 8,00          |               |
| DCJ          | 31,00                      | 58,00            | 8,00          |               |
| BASF         | 31,00                      | 62,50            | 4,3/5,8       |               |
| SCESY        | 31,00                      | 65/80            | 15/21         |               |
| PY           | 31,30                      | 38,20            | 4,50          |               |
| KB3Y         | 31,34                      | 48,87/50,37      | 8,1/11,2      | ND            |
| OKB          | 31,50                      | 40,6/49          | 2,6/4         |               |
| OKB          | 31,50                      | 41/51,2          | 3,8/5         |               |
| HTCR         | 31,50                      | 42,00            | 7,00          | SS            |
| OKB          | 31,50                      | 44,5/56          | 4,2/5,5       | ND            |
| KBCY         | 31,50                      | 75,00            | 12,70         | ND            |
| KCWK         | 31,62                      | 52,04            | 7,50          | GR            |
| KCWK         | 31,62                      | 52,04            | 7,50          | GR            |
| TB4Y         | 31,67                      | 42,82            | 8,40          | GD            |
| SBR          | 31,67                      | 42,88            | 7,90          | ND            |
| XICY1        | 31,70                      | 42/46            | 5/12          |               |
| TCL          | 31,70                      | 42,00            | 7/9           |               |
| KB           | 31,75                      | 38,10            | 3,20          |               |
| TC4          | 31,75                      | 38,73            | 6,40          | P5            |
| XICY3        | 31,75                      | 38,74/41,9       | 5,1/11,4      |               |
| OVY          | 31,75                      | 39,75/56,9       | 3,8/10,1      |               |
| DC           | 31,75                      | 41,28            | 4,80          | ND            |
| SB           | 31,75                      | 41,28            | 4,80          | GR            |
| TC40         | 31,75                      | 41,28            | 6,40          | P2            |
| XICY         | 31,75                      | 41,5/45,4        | 8,1/14,48     | SS            |
| VB2          | 31,75                      | 42,82            | 4,80          |               |
| DC           | 31,75                      | 42,82            | 11,90         |               |
| SB           | 31,75                      | 42,86            | 6,40          | SSSGD         |
| SBA          | 31,75                      | 42,86            | 6,40          | SSSGD         |
| TB           | 31,75                      | 42,86            | 6,40          | P2            |
| SB           | 31,75                      | 42,86            | 7,90          | GD            |
| TB2          | 31,75                      | 42,86            | 7,90          | ND            |
| SA           | 31,75                      | 42,86            | 9,50          | GD            |
| KC           | 31,75                      | 42,93            | 5,70          |               |
| HSBR         | 31,75                      | 44,45            | 6,40          |               |
| SB2          | 31,75                      | 44,45            | 6,40          |               |
| SBR          | 31,75                      | 44,45            | 6,40          | P0            |
| TB2P         | 31,75                      | 44,45            | 6,40          | P2            |
| SCT          | 31,75                      | 44,45            | 6,50          | ND            |
| SCY          | 31,75                      | 44,45            | 6,50          | SSP5          |
|              |                            |                  |               | GR            |
|              |                            |                  |               |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| VBP          | 31,75                      | 44,45            | 7,40          | SUS           |
| VBP          | 31,75                      | 44,45            | 7,40          | SUS           |
| SC5X         | 31,75                      | 44,45/50         | 7,90          |               |
| SC6P         | 31,75                      | 44,45            | 8,90          | SSS           |
| SC6P         | 31,75                      | 44,45            | 8,90          | SSS           |
| DB           | 31,75                      | 44,45            | 9,50          | SSSND         |
| SB           | 31,75                      | 44,45            | 9,50          | SSGD          |
| VB21         | 31,75                      | 44,50            | 4,80          | ND            |
| SB2          | 31,75                      | 44,50            | 6,40          | P5            |
| TB2          | 31,75                      | 44,50            | 6,40          | P2            |
| TB2          | 31,75                      | 44,50            | 6,40          | P2            |
| VB2          | 31,75                      | 44,50            | 6,40          | ND            |
| VB2          | 31,75                      | 44,50            | 6,40          | GD            |
| VB21         | 31,75                      | 44,50            | 6,40          | ND            |
| TA2          | 31,75                      | 44,50            | 7,90          | SSGD          |
| TB2          | 31,75                      | 44,50            | 7,90          | GD            |
| SA2          | 31,75                      | 44,50            | 11,10         | P2            |
| SC4          | 31,75                      | 46,43            | 9,50          |               |
| SB2          | 31,75                      | 47,63            | 6,40          | P2            |
| TB2          | 31,75                      | 47,63            | 6,40          | ND            |
| VB21         | 31,75                      | 47,63            | 6,40          | ND            |
| TCI          | 31,75                      | 47,63            | 7,9/10        |               |
| TB21         | 31,75                      | 47,63            | 9,50          | GD            |
| TB2          | 31,75                      | 47,63            | 11,10         | GD            |
| SBCY         | 31,75                      | 47,80            | 5,5/7,4       | SSND          |
| VBRY         | 31,75                      | 48,90            | 3,60          | ND            |
| SB2          | 31,75                      | 49,21            | 6,40          | P5            |
| VA2Y         | 31,75                      | 49,99            | 11,90         | ND            |
| DB5          | 31,75                      | 50/57            | 10,7/11,5     | P7            |
| KBY          | 31,75                      | 50,00            | 11,90         | ND            |
| KB2          | 31,75                      | 50,27            | 6,40          | ND            |
| TB2          | 31,75                      | 50,27            | 6,40          | ND            |
| VB2          | 31,75                      | 50,27            | 6,40          | GD            |
| KBY          | 31,75                      | 50,27            | 9,50          | ND            |
| KBY          | 31,75                      | 50,27            | 10,30         | ND            |
| VB18         | 31,75                      | 50,27            | 10,30         | ND            |
| VB2Y         | 31,75                      | 50,27            | 10,30         | GD            |
| TB2          | 31,75                      | 50,30            | 9,30          | P0            |
| TB2          | 31,75                      | 50,37            | 6,40          | ND            |
| VA2          | 31,75                      | 50,37            | 6,40          | ND            |
| VB21         | 31,75                      | 50,37            | 6,40          | ND            |
| TB2          | 31,75                      | 50,37            | 11,12         | P0            |
| SCAT         | 31,75                      | 50,72            | 11,10         | SS            |
| VCY          | 31,75                      | 50,72            | 11,10         |               |
| SB2          | 31,75                      | 50,80            | 6,40          | GD            |
| TB2          | 31,75                      | 50,80            | 6,40          | ND            |
| VB2          | 31,75                      | 50,80            | 6,40          | GD            |
| VATY         | 31,75                      | 50,80            | 7,1/7,9       | ND            |
| SBRV         | 31,75                      | 50,80            | 7,90          | ND            |
| TBS          | 31,75                      | 50,80            | 9,00          | ND            |
| OVY          | 31,75                      | 50,80            | 9,50          |               |
| OVY          | 31,75                      | 50,80            | 9,50          |               |
| SA2          | 31,75                      | 50,80            | 9,50          | GD            |
| SA2          | 31,75                      | 50,80            | 9,50          | P5            |
| SB2          | 31,75                      | 50,80            | 9,50          | ND            |
| DC           | 31,75                      | 50,80            | 9,90          | SS            |
| TA2          | 31,75                      | 50,80            | 11,10         | GD            |
| TA2          | 31,75                      | 50,80            | 11,10         | P0            |
| TB2          | 31,75                      | 50,80            | 11,10         | GD            |
| TB2          | 31,75                      | 50,80            | 11,10         | SSND          |
| TBA          | 31,75                      | 50,80            | 12,7/14,5     | GD            |
| TC6          | 31,75                      | 50,80            | 12,70         |               |
| SB2          | 31,75                      | 52,34            | 6,40          | P2RD          |
| SB2          | 31,75                      | 52,34            | 6,40          | P2            |
| TB2          | 31,75                      | 52,39            | 6,40          | P0            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SB2          | 31,75                      | 52,39            | 9,50          | P0            |
| TB2I         | 31,75                      | 52,39            | 9,50          | GD            |
| TA2          | 31,75                      | 52,39            | 11,10         | P2            |
| SB2          | 31,75                      | 52,45            | 6,40          | P2            |
| SB2          | 31,75                      | 53,98            | 6,40          | P2            |
| TB2          | 31,75                      | 53,98            | 6,40          | SSND          |
| SB2          | 31,75                      | 53,98            | 9,50          | P0            |
| TB2          | 31,75                      | 53,98            | 9,50          | P0            |
| TB2I         | 31,75                      | 53,98            | 9,50          | GD            |
| SB2          | 31,75                      | 57,15            | 6,40          | P2            |
| TB2          | 31,75                      | 57,15            | 6,40          | P2            |
| VB2          | 31,75                      | 57,15            | 6,40          | P2            |
| SBY          | 31,75                      | 57,15            | 11,00         | ND            |
| TB5          | 31,75                      | 57,15/63,5       | 11,10         | ND            |
| TC42         | 31,75                      | 57,15            | 12,70         |               |
| SB2          | 31,75                      | 57,18            | 9,50          | P2            |
| TB2          | 31,75                      | 57,20            | 9,50          | P2            |
| TB2          | 31,75                      | 59,13            | 11,10         | GD            |
| TB2          | 31,75                      | 59,13            | 11,90         | P2            |
| TB5I         | 31,75                      | 60,91/68         | 5,80          | P0            |
| KBCY         | 31,75                      | 61,00            | 10/12         | ND            |
| KBCY         | 31,75                      | 61,00            | 12,00         | ND            |
| SA2          | 31,75                      | 61,91            | 6,40          | ND            |
| SB2          | 31,75                      | 61,91            | 6,40          | GD            |
| TB2          | 31,75                      | 61,91            | 7,90          | P2            |
| SB2          | 31,75                      | 61,91            | 8,90          | GD            |
| TB2          | 31,75                      | 61,91            | 9,50          | P0            |
| TB2          | 31,75                      | 62,00            | 9,50          | GD            |
| TC42WY       | 31,75                      | 63,50            | 13/15         |               |
| TB2          | 31,75                      | 63,55            | 9,50          | P2            |
| TB2          | 31,75                      | 63,55            | 12,70         | SSP5          |
| TB2P         | 31,75                      | 63,55            | 12,70         | SSGD          |
| SA2          | 31,75                      | 65,05            | 12,70         | P0            |
| SA2          | 31,75                      | 68,22            | 9,50          | P2            |
| OU           | 31,75                      | 76,70            | 7,1/10        | ND            |
| XICY3        | 31,80                      | 42/49            | 5,6/15        | SS            |
| XICY3        | 31,80                      | 42/49            | 5,6/15        | SS            |
| TC4          | 31,80                      | 42,00            | 7,00          |               |
| TC4          | 31,80                      | 42,00            | 7,00          |               |
| DC4Y         | 31,80                      | 42,00            | 10,00         |               |
| TC4L         | 31,80                      | 42,00            | 10/10,5       |               |
| OVY          | 32,00                      | 36/38            | 6,00          |               |
| PY           | 32,00                      | 37,00            | 8,00          |               |
| TB           | 32,00                      | 39,00            | 6,00          | GDGR          |
| VBY          | 32,00                      | 39,00            | 6/8           | GD            |
| TB           | 32,00                      | 39,00            | 8,00          | GD            |
| SCY          | 32,00                      | 39,00            | 8,50          |               |
| HTCR         | 32,00                      | 40,00            | 5,00          |               |
| TCJ          | 32,00                      | 40,00            | 5,00          |               |
| SCJ          | 32,00                      | 40,00            | 6,00          |               |
| KCY          | 32,00                      | 40,00            | 7,00          |               |
| TC4Y         | 32,00                      | 40,50            | 10,2/13,5     | SS            |
| SBJ          | 32,00                      | 41,00            | 4,00          | GD            |
| KC           | 32,00                      | 42,00            | 5,00          |               |
| XICY         | 32,00                      | 42/45            | 5,9/13,3      | SSGR          |
| HTCL         | 32,00                      | 42,00            | 6,00          |               |
| VB4R         | 32,00                      | 42,00            | 6,00          | ND            |
| XICY         | 32,00                      | 42/45            | 6/12          | SSGR          |
| HTCWL        | 32,00                      | 42,00            | 7,00          | SS            |
| HTCWR        | 32,00                      | 42,00            | 7,00          | SS            |
| SCW          | 32,00                      | 42,00            | 7,00          |               |
| TB           | 32,00                      | 42,00            | 7,00          | GD            |
| TC4          | 32,00                      | 42,00            | 7,00          |               |
| TCY          | 32,00                      | 42,00            | 8/9           |               |
| HTC4YL       | 32,00                      | 42,00            | 10/15         |               |

| Tipo<br>Type | Dimensioni<br>Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|-------------------------------|---------------------|------------------|---------------|
|              | Diametro<br>Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal           | Esterno<br>External |                  |               |
| SC4          | 32,00                         | 43,00               | 6,50             | GR            |
| SB           | 32,00                         | 43,00               | 10,00            | GD            |
| DC4          | 32,00                         | 43,00               | 10,50            | SS            |
| TC4          | 32,00                         | 43,00               | 10,50            | GD            |
| TB4          | 32,00                         | 43,00               | 12,50            |               |
| TC4          | 32,00                         | 43,00               | 12,50            |               |
| TCL          | 32,00                         | 43,00               | 12,5/14,5        |               |
| XICY4        | 32,00                         | 43/45,5             | 13,5/20          | ND            |
| XICY4        | 32,00                         | 43/45,5             | 13,5/20          |               |
| OKB          | 32,00                         | 43,7/55,2           | 5,90             |               |
| HTCR         | 32,00                         | 44,00               | 6,00             |               |
| DC           | 32,00                         | 44,00               | 8,00             |               |
| DCAJ         | 32,00                         | 44,00               | 8,00             |               |
| DCJ          | 32,00                         | 44,00               | 8,00             | SS            |
| SCJ          | 32,00                         | 44,00               | 8,00             |               |
| DCAJ         | 32,00                         | 44,00               | 9,00             |               |
| SB           | 32,00                         | 44,00               | 9,00             | GD            |
| SCJ          | 32,00                         | 44,00               | 9,00             |               |
| DC4          | 32,00                         | 44,00               | 10,50            | SS            |
| TB4          | 32,00                         | 44,00               | 10,50            | GD            |
| TC4          | 32,00                         | 44,00               | 10,50            |               |
| XICY3        | 32,00                         | 44,2/48             | 4,6/14           | SS            |
| DC4          | 32,00                         | 44,50               | 10,50            | SS            |
| VB2          | 32,00                         | 45,00               | 5,00             | GD            |
| HTCR         | 32,00                         | 45,00               | 6,00             | SS            |
| TBRJ         | 32,00                         | 45,00               | 6,50             | ND            |
| TB2          | 32,00                         | 45,00               | 7,00             | GD            |
| TBR          | 32,00                         | 45,00               | 7,00             | GD            |
| TC4          | 32,00                         | 45,00               | 7,00             |               |
| DC           | 32,00                         | 45,00               | 8,00             |               |
| HSCR         | 32,00                         | 45,00               | 8,00             |               |
| HTCR         | 32,00                         | 45,00               | 8,00             |               |
| TCEWI        | 32,00                         | 45,95               | 9,00             | SS            |
| TCWI         | 32,00                         | 45,95               | 9,00             | SS            |
| HTCR         | 32,00                         | 46,00               | 6,00             |               |
| HTCWI        | 32,00                         | 46,00               | 6,00             |               |
| TBR          | 32,00                         | 46,00               | 6,70             | SSGD          |
| HTCL         | 32,00                         | 46,00               | 7,00             |               |
| HTCL         | 32,00                         | 46,00               | 8,00             |               |
| SB2          | 32,00                         | 46,00               | 8,00             | GD            |
| TBR          | 32,00                         | 46,00               | 8,00             | GD            |
| TC3          | 32,00                         | 46,00               | 8,00             |               |
| DC4          | 32,00                         | 46,00               | 11,00            | SS            |
| TC4          | 32,00                         | 46,00               | 11,00            |               |
| HTCR         | 32,00                         | 47,00               | 6,00             |               |
| TB2          | 32,00                         | 47,00               | 7,00             | GDGR          |
| HTCR         | 32,00                         | 47,00               | 8,00             |               |
| HTCWR        | 32,00                         | 47,00               | 8,00             |               |
| HTCWR        | 32,00                         | 47,00               | 10,00            |               |
| HTCR         | 32,00                         | 47,00               | 10,00            |               |
| HTCWI        | 32,00                         | 47,00               | 10,00            |               |
| TB           | 32,00                         | 47,00               | 10,00            | GD            |
| TCWI         | 32,00                         | 47,00               | 10,00            |               |
| DC           | 32,00                         | 47,00               | 12,00            | SS            |
| HTCR         | 32,00                         | 48,00               | 7,00             |               |
| TA5Y         | 32,00                         | 48/55               | 7/10             |               |
| HTCKL        | 32,00                         | 48,00               | 8,00             |               |
| HTCL         | 32,00                         | 48,00               | 8,00             | GR            |
| HTCR         | 32,00                         | 48,00               | 8,00             |               |
| SB2          | 32,00                         | 48,00               | 8,00             | GD            |
| TC42         | 32,00                         | 48,00               | 8/11             | SS            |
| TC4Y         | 32,00                         | 48,00               | 8/9              |               |
| TC7Y         | 32,00                         | 48,00               | 9/14             |               |
| DCY          | 32,00                         | 48,00               | 10,00            | SS            |
| DCYJ         | 32,00                         | 48/52               | 10,00            | SS            |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |  |
|--------------|----------------------------|------------------|---------------|---------------|--|
|              | Diametro Diameter          |                  | Altezza Width |               |  |
|              | Interno Internal           | Esterno External |               |               |  |
| HTCL         | 32,00                      | 48,00            | 10,00         |               |  |
| HTBSY        | 32,00                      | 49,8/109,5       | 3/11,5        |               |  |
| TC42         | 32,00                      | 50,00            | 6,50          |               |  |
| TB2          | 32,00                      | 50,00            | 7,00          | GD            |  |
| HTCR         | 32,00                      | 50,00            | 8,00          |               |  |
| SB           | 32,00                      | 50,00            | 8,00          | GD            |  |
| HTBL         | 32,00                      | 50,00            | 10,00         | GD            |  |
| HTCR         | 32,00                      | 50,00            | 10,00         |               |  |
| TB2          | 32,00                      | 51,00            | 8,00          | P9            |  |
| DB2          | 32,00                      | 52,00            | 7/9           | GD            |  |
| DC           | 32,00                      | 52,00            | 7,00          |               |  |
| HTCYR        | 32,00                      | 52,00            | 7/8           | SS            |  |
| TB2          | 32,00                      | 52,00            | 7,00          | GD            |  |
| HTCR         | 32,00                      | 52,00            | 8,00          |               |  |
| TC35         | 32,00                      | 52/60            | 8,00          |               |  |
| TCW5Y        | 32,00                      | 52/78            | 8/14,8        | SS            |  |
| TC4          | 32,00                      | 52,00            | 9,00          |               |  |
| KB2          | 32,00                      | 52,00            | 9,50          | GD            |  |
| HTC42I       | 32,00                      | 52,00            | 10,00         |               |  |
| HTCL         | 32,00                      | 52,00            | 10,00         |               |  |
| TB2          | 32,00                      | 52,00            | 10,00         | GD            |  |
| DC7Y         | 32,00                      | 52,00            | 10,5/15       | SS            |  |
| HTCR         | 32,00                      | 52,00            | 11,00         |               |  |
| TB2          | 32,00                      | 52,00            | 11,00         | GD            |  |
| TC3          | 32,00                      | 52,00            | 11,00         |               |  |
| KC4Y         | 32,00                      | 52,5/64,5        | 14,00         |               |  |
| HTCR         | 32,00                      | 53,00            | 7,00          |               |  |
| SCY          | 32,00                      | 53,00            | 8,50          |               |  |
| TC5          | 32,00                      | 54/68            | 10,00         |               |  |
| HTCR         | 32,00                      | 55,00            | 8,00          |               |  |
| SCY          | 32,00                      | 56,00            | 9,00          |               |  |
| HTCR         | 32,00                      | 56,00            | 10,00         |               |  |
| TB2          | 32,00                      | 56,00            | 10,00         | ND            |  |
| HTB2L        | 32,00                      | 56,00            | 11,00         | ND            |  |
| TB2          | 32,00                      | 58,00            | 12,00         | GD            |  |
| TA2          | 32,00                      | 60,00            | 10,00         | GD            |  |
| BE           | 32,00                      | 61,50            | 7,00          |               |  |
| SCY          | 32,00                      | 62,00            | 6,00          |               |  |
| DCY          | 32,00                      | 62,00            | 8,00          |               |  |
| TB2          | 32,00                      | 65,00            | 12,00         | GD            |  |
| TB42         | 32,00                      | 65,00            | 12,00         | GD            |  |
| DCYJ         | 32,00                      | 69,00            | 2,5/8         |               |  |
| TB2          | 32,00                      | 72,00            | 7,00          | P9            |  |
| HTCWYR       | 32,30                      | 48,00            | 7/15          |               |  |
| VBE          | 32,39                      | 45,85            | 4,00          | ND            |  |
| HTCR         | 32,50                      | 46,00            | 6,00          |               |  |
| SCY          | 32,51                      | 44,42            | 5,90          | SS            |  |
| VCP          | 32,54                      | 44,86            | 3,70          |               |  |
| SBR          | 32,54                      | 46,40            | 9,50          | GD            |  |
| HTCR         | 32,54                      | 48,99            | 7,90          | SS            |  |
| SB           | 32,54                      | 50,80            | 8,90          | SSSGD         |  |
| SBA          | 32,54                      | 50,80            | 8,90          | SSSGD         |  |
| SB           | 32,54                      | 50,80            | 9,00          | SSSGD         |  |
| SBA          | 32,54                      | 50,80            | 9,00          | SSSGD         |  |
| TB2          | 32,54                      | 50,80            | 9,50          | GD            |  |
| TB2          | 32,54                      | 50,80            | 9,50          | P2            |  |
| SB2          | 32,54                      | 51,43            | 9,50          | GD            |  |
| SB           | 32,70                      | 50,80            | 8,70          | ND            |  |
| TBRV         | 32,77                      | 50,80            | 7,90          | ND            |  |
| VB5Y         | 32,92                      | 38,91            | 7,77          | ND            |  |
| KC           | 33,00                      | 39,00            | 4,00          |               |  |
| SCY          | 33,00                      | 40,00            | 3,5/6,5       |               |  |
| PY           | 33,00                      | 40,00            | 8,00          |               |  |
| XICY4        | 33,00                      | 40,5/45          | 6,5/14,5      |               |  |
| UPH          | 33,00                      | 41,00            | 5,00          |               |  |
| XICY4        | 33,00                      | 41/45            | 6,5/14,5      |               |  |
| XICY4        | 33,00                      | 42/47            | 5,6/14        |               |  |
| KC           | 33,00                      | 42,00            | 7,00          |               |  |
| SCF5Y        | 33,00                      | 42/46            | 20,50         |               |  |
| SC4          | 33,00                      | 43,00            | 6,50          |               |  |
| TCY          | 33,00                      | 43,00            | 6,5/7,5       |               |  |
| HTC          | 33,00                      | 43,25            | 7,00          | SS            |  |
| BO-2         | 33,00                      | 44,00            | 4,45/4,95     | ND            |  |
| TB           | 33,00                      | 44,00            | 7,00          | GD            |  |
| HTB5I        | 33,00                      | 44/52            | 8/13          | ND            |  |
| HTC5I        | 33,00                      | 44/52            | 8/14          |               |  |
| TB           | 33,00                      | 44,00            | 8,00          | GD            |  |
| TBR          | 33,00                      | 44,00            | 8,00          | ND            |  |
| SC5Y         | 33,00                      | 44,5/47,5        | 11,5/16,5     |               |  |
| DC           | 33,00                      | 45,00            | 8,00          |               |  |
| TCL          | 33,00                      | 45,00            | 8/10          |               |  |
| TC4          | 33,00                      | 45,00            | 10,00         |               |  |
| TC4Y         | 33,00                      | 45,00            | 10,00         |               |  |
| TC4Y         | 33,00                      | 45,00            | 10,00         |               |  |
| TCL          | 33,00                      | 45,00            | 10,5/12       |               |  |
| DC4          | 33,00                      | 45,00            | 11,00         | SSGR          |  |
| TC4          | 33,00                      | 45,00            | 11,00         |               |  |
| XICY         | 33,00                      | 45,3/51          | 5,6/14        |               |  |
| XICY1        | 33,00                      | 45,5/49,5        | 5/12          |               |  |
| XICY8        | 33,00                      | 45,5/50          | 6/14          | SS            |  |
| HTCR         | 33,00                      | 46,00            | 7,00          |               |  |
| HTBRR        | 33,00                      | 46,00            | 8,00          | GD            |  |
| WPTC         | 33,00                      | 46,00            | 8,50          |               |  |
| DC4          | 33,00                      | 46,00            | 10,50         | SS            |  |
| TC4          | 33,00                      | 46,00            | 10,50         |               |  |
| DC4          | 33,00                      | 46,00            | 11,00         | SSGR1         |  |
| TCL          | 33,00                      | 46,00            | 11/13         |               |  |
| XICY         | 33,00                      | 46,1/53,2        | 7,6/15        |               |  |
| XICY         | 33,00                      | 46,3/53          | 5,6/14,5      |               |  |
| HTCR         | 33,00                      | 47,00            | 7,00          |               |  |
| HTCR         | 33,00                      | 47,00            | 8,00          |               |  |
| HTCR         | 33,00                      | 48,00            | 8,00          |               |  |
| HTCR         | 33,00                      | 49,00            | 8,00          |               |  |
| TB2          | 33,00                      | 50,00            | 8,00          | GD            |  |
| HTCL         | 33,00                      | 50,00            | 12,00         |               |  |
| HTCR         | 33,00                      | 50,00            | 12,00         |               |  |
| TC9          | 33,00                      | 52,00            | 7/12          | SS            |  |
| TC9          | 33,00                      | 52,00            | 9/13,5        | SS            |  |
| PY           | 33,00                      | 52,00            | 31,00         |               |  |
| DA6          | 33,00                      | 52,39            | 17,50         | ND            |  |
| TC7Y         | 33,00                      | 54,00            | 9/15          |               |  |
| SB2EI        | 33,00                      | 55,00            | 9,50          | GD            |  |
| TB2          | 33,00                      | 55,00            | 9,50          | GD            |  |
| HTBC7Y       | 33,00                      | 56,00            | 8/12,5        | ND            |  |
| TC7Y         | 33,00                      | 56,00            | 8/12,5        |               |  |
| HTC7L        | 33,00                      | 56,00            | 8,8/15        |               |  |
| TC57Y        | 33,00                      | 56,00            | 10/24,5       |               |  |
| TBC9Y        | 33,00                      | 59,00            | 9/15          | ND            |  |
| TC7Y         | 33,00                      | 59,00            | 11/17         |               |  |
| HTCR         | 33,00                      | 60,00            | 8,00          | GR            |  |
| OVY          | 33,00                      | 62,00            | 4,80          | ND            |  |
| SCW          | 33,00                      | 66,00            | 13,00         |               |  |
| TCY          | 33,00                      | 70,00            | 8/16,5        |               |  |
| DCY          | 33,00                      | 70,00            | 11/20         | SS            |  |
| TCY          | 33,00                      | 72,00            | 7/10          | GR            |  |
| TC5WJ        | 33,00                      | 72/76            | 8,50          | SS            |  |
| TCY          | 33,00                      | 75,00            | 8/18          |               |  |
| VBY          | 33,02                      | 47,63            | 7,20          | GD            |  |
| TB2          | 33,05                      | 50,80            | 11,10         | GD            |  |
| TB2          | 33,27                      | 50,37            | 6,40          | PO            |  |
| VBR          | 33,29                      | 39,67            | 3,20          | ND            |  |
| VBR          | 33,29                      | 39,67            | 3,20          | ND            |  |
| VCTHP        | 33,30                      | 46,02            | 4,10          |               |  |
| VB2S         | 33,30                      | 46,91            | 3,70          | GD            |  |
| VB2          | 33,30                      | 47,00            | 3,70          | GD            |  |
| VB3          | 33,34                      | 36,98            | 3,80          | ND            |  |
| VB3          | 33,34                      | 37,08            | 3,80          | ND            |  |
| VCHP         | 33,34                      | 39,69            | 3,30          |               |  |
| SC4          | 33,34                      | 42,86            | 6,50          |               |  |
| SBCY         | 33,34                      | 45,50            | 6,40          | ND            |  |
| VCT          | 33,34                      | 46,03            | 4,00          |               |  |
| VCY          | 33,34                      | 46,03            | 4,00          |               |  |
| SBR          | 33,34                      | 46,43            | 9,50          | GD            |  |
| KA2T         | 33,34                      | 46,50            | 6,4/7,9       | GD            |  |
| TA2          | 33,34                      | 46,99            | 12,70         | SSP2GR        |  |
| SB           | 33,34                      | 48,00            | 6,40          | ND            |  |
| TCAT         | 33,34                      | 49,21            | 9,1/9,9       |               |  |
| VCY          | 33,34                      | 49,21            | 9,1/9,9       |               |  |
| TB2I         | 33,34                      | 49,21            | 11,10         | GD            |  |
| HTBYL        | 33,34                      | 49,53            | 12,70         | GD            |  |
| TB2          | 33,34                      | 50,37            | 9,50          | GD            |  |
| TB2          | 33,34                      | 52,39            | 7,90          | P5RD          |  |
| TB2          | 33,34                      | 52,39            | 7,90          | P5RD          |  |
| TB2          | 33,34                      | 55,15            | 9,50          | GD            |  |
| TB2          | 33,34                      | 57,15            | 7,90          | PO            |  |
| HTB9Y        | 33,34                      | 57,94            | 9,1/23        | PORD          |  |
| TB2          | 33,34                      | 60,30            | 7,90          | P2            |  |
| Y            | 33,34                      | 61,21            | 6,40          |               |  |
| VBR          | 33,34                      | 65,80            | 8,40          | ND            |  |
| SB2          | 33,34                      | 69,45            | 7,90          | GD            |  |
| SC5AY        | 33,35                      | 48,57/52,76      | 8,10          | SS            |  |
| SC5Y         | 33,35                      | 48,57/52,76      | 8,10          | SS            |  |
| TCY          | 33,50                      | 46,00            | 8,50          |               |  |
| TB           | 33,50                      | 55,00            | 9,50          | GD            |  |
| DC5          | 33,50                      | 62/66            | 8,50          |               |  |
| PS19         | 33,55                      | 88,90            | 29,40         |               |  |
| SB2          | 33,58                      | 56,56            | 9,50          | PO            |  |
| PS10         | 33,58                      | 88,49/89,7       | 16,76/28,96   |               |  |
| SB2          | 33,68                      | 52,35            | 9,50          | PO            |  |
| SB2          | 33,68                      | 58,74            | 11,05         | PORD          |  |
| PS06         | 33,70                      | 83,34            | 4,6/36,5      |               |  |
| SCI          | 33,71                      | 52,45            | 10,30         |               |  |
| HTCR         | 33,80                      | 48,00            | 5,00          |               |  |
| HTCR         | 33,80                      | 48,00            | 6,00          |               |  |
| VBSY         | 33,91                      | 39,91            | 7,77          | ND            |  |
| PY           | 34,00                      | 40,00            | 8,00          |               |  |
| KC           | 34,00                      | 41,00            | 4,00          |               |  |
| TB           | 34,00                      | 41,00            | 4,00          | GD            |  |
| TC40         | 34,00                      | 41,00            | 4,00          |               |  |
| VBY          | 34,00                      | 41,20            | 3,5/4,7       | ND            |  |
| KC           | 34,00                      | 42,00            | 5,00          |               |  |
| TB           | 34,00                      | 44,00            | 7,00          | GD            |  |
| UPH          | 34,00                      | 44,00            | 7,00          |               |  |
| HTB3         | 34,00                      | 44,00            | 10,00         | GD            |  |
| HTB3Y        | 34,00                      | 44,00            | 10,00         | GDGR          |  |
| VCP          | 34,00                      | 46,00            | 3,7/5,8       |               |  |
| HTCR         | 34,00                      | 46,00            | 7,00          |               |  |
| DCWYJ        | 34,00                      | 46,00            | 7,5/11,5      | SS            |  |
| SB2          | 34,00                      | 46,00            | 8,00          | GD            |  |
| HTBCAR       | 34,00                      | 46,00            | 10,50         | ND            |  |
| TB4          | 34,00                      | 46,00            | 10,50         | GD            |  |
| TC4          | 34,00                      | 46,00            | 10,50         |               |  |
| HDCAY        | 34,00                      | 46/47            | 12,8/16       | ND            |  |
| HSBCYL       | 34,00                      | 47,00            | 6,5/9,5       | ND            |  |
| HTCWL        | 34,00                      | 47,00            | 8,00          |               |  |
| HTBCR        | 34,00                      | 48,00            | 7,00          |               |  |
| HTCR         | 34,00                      | 48,00            | 8,00          |               |  |
| SB2          | 34,00                      | 48,00            | 8,00          | P5RD          |  |
| SCY          | 34,00                      | 48,00            | 8/13,5        | ND            |  |
| TB2          | 34,00                      | 48,00            | 8,00          | GD            |  |
| HTC3WR       | 34,00                      | 50,00            | 7,00          |               |  |
| HTCR         | 34,00                      | 50,00            | 7,00          |               |  |
| HTCR         | 34,00                      | 50,00            | 8,00          |               |  |
| HTCR         | 34,00                      | 52,00            | 7,00          |               |  |
| SCW          | 34,00                      | 52,00            | 7,00          |               |  |
| TB2          | 34,00                      | 52,00            | 7,00          | GD            |  |
| TC5WY        | 34,00                      | 52/65            | 7/10,5        | SS            |  |
| TC9          | 34,00                      | 52,00            | 9/14          |               |  |
| DB           | 34,00                      | 52,00            | 10,00         | GD            |  |
| SB2          | 34,00                      | 52,00            | 10,00         | GD            |  |
| HTC7R        | 34,00                      | 54,00            | 8/11,5        |               |  |
| HTC7I        | 34,00                      | 54,00            | 9/15,5        |               |  |
| TC7          | 34,00                      | 54,00            | 9/15,5        |               |  |
| VCY          | 34,00                      | 54,00            | 9,00          | ND            |  |
| TC7Y         | 34,00                      | 55,00            | 9/15          |               |  |
| SCE          | 34,00                      | 55,00            | 10,00         |               |  |
| SCEA         | 34,00                      | 55,00            | 10,00         | ND            |  |
| HTCR         | 34,00                      | 55,00            | 11,00         |               |  |
| KC           | 34,00                      | 58,00            | 5,00          |               |  |
| HTC7         | 34,00                      | 58,00            | 9,5/13        |               |  |
| TCY          | 34,00                      | 62,00            | 7/11          |               |  |
| TB5          | 34,00                      | 62/70            | 8,50          | SSND          |  |
| TCA          | 34,00                      | 62,00            | 14,00         | ND            |  |
| HTCA         | 34,00                      | 63,00            | 8,50          |               |  |
| HTCY         | 34,00                      | 63,00            | 8,50          |               |  |
| HTC7I        | 34,00                      | 63,00            | 9/15,5        |               |  |
| TC7          | 34,00                      | 63,00            | 9/15,5        |               |  |
| TCYI         | 34,00                      | 63,00            | 12,00         |               |  |
| TB2          | 34,00                      | 65,00            | 12,00         | ND            |  |
| DC           | 34,00                      | 70,00            | 11,00         | SSGR          |  |
| DCA          | 34,00                      | 70,00            | 11/12,5       | SSGR          |  |
| TA2          | 34,11                      | 53,49            | 7,90          | P2            |  |
| VCP          | 34,13                      | 39,69            | 3,30          |               |  |
| HSB2R        | 34,13                      | 50,40            | 4,8/7,1       | PO            |  |
| HSCR         | 34,30                      | 50,00            | 9,50          |               |  |
| SB5J         | 34,30                      | 62,23/70         | 7,90          | SSND          |  |
| SBY          | 34,30                      | 65,30            | 17,90         | ND            |  |
| SC5          | 34,40                      | 90/93,5          | 5,20          | SS            |  |
| SC5J         | 34,40                      | 90/93,5          | 5,20          | SS            |  |
| SC5S         | 34,40                      | 90/93,5          | 5,2/9         | SS            |  |
| SC5SJ        | 34,40                      | 90/93,5          | 5,2/9         | SS            |  |
| SC5Y         | 34,40                      | 90/93,5          | 5,2/9         | SS            |  |
| VB2          | 34,50                      | 42,00            | 4,00          | GD            |  |
| DC5J         | 34,50                      | 58/79            | 2,5/10        | SS            |  |
| VAFE         | 34,50                      | 62,00            | 8,00          | GD            |  |
| TB45Y        | 34,50                      | 70/72,8          | 12/40,7       | ND            |  |
| DCYJ         | 34,50                      | 79,00            | 2,50          | SS            |  |
| SC5Y         | 34,52                      | 44,45            | 7,50          |               |  |
| SB2          | 34,60                      | 55,65            | 6,40          | P2            |  |
| VBE          | 34,67                      | 49,20            | 4,30          | ND            |  |
| SB           | 34,67                      | 52,86            | 11,00         | PO            |  |
| HSB2         | 34,67                      | 57,38            | 11,10         | PORD          |  |
| SB2          | 34,67                      | 60,30            | 11,00         | PO            |  |
| SB2          | 34,72                      | 57,15            | 7,90          | GD            |  |
| SC5Y         | 34,85                      | 72/75            | 6,00          | SS            |  |
| VAT          | 34,88                      |                  |               |               |  |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SB           | 34,93                      | 44,45            | 4,80          | GD            |
| WKB          | 34,93                      | 44,45            | 4,80          | GD            |
| SB           | 34,93                      | 44,45            | 4,90          | GD            |
| HSCL         | 34,93                      | 44,50            | 6,00          | SS            |
| HSCR         | 34,93                      | 44,50            | 6,00          | SS            |
| TB           | 34,93                      | 46,43            | 6,40          | GD            |
| HDAUL        | 34,93                      | 46,43            | 15,88         | SSSGD         |
| VB2          | 34,93                      | 46,58            | 4,80          | GD            |
| TB           | 34,93                      | 46,58            | 9,50          | SSP2          |
| TB           | 34,93                      | 47,60            | 7,90          | GD            |
| TB           | 34,93                      | 47,60            | 9,50          | GD            |
| VB2          | 34,93                      | 47,63            | 4,80          | ND            |
| VB2          | 34,93                      | 47,63            | 4,80          | ND            |
| HSBRI        | 34,93                      | 47,63            | 6,40          | SSP4          |
| TB2          | 34,93                      | 47,63            | 6,40          | P2            |
| VB14         | 34,93                      | 47,63            | 6,40          | GD            |
| VBP          | 34,93                      | 47,63            | 7,40          | SUS           |
| SB2          | 34,93                      | 47,63            | 7,90          | GD            |
| TCI          | 34,93                      | 47,63            | 7,90          |               |
| SC6P         | 34,93                      | 47,63            | 8,90          | SSS           |
| SB           | 34,93                      | 47,63            | 9,50          | P0            |
| TBCW4        | 34,93                      | 48,00            | 11,70         | ND            |
| BU           | 34,93                      | 48,00            | 12,70         | GD            |
| TBSY         | 34,93                      | 48,7/64,5        | 11,1/22,3     | PO            |
| TBR          | 34,93                      | 49,21            | 6,00          | ND            |
| TC4L         | 34,93                      | 49,21            | 12,7/17,1     |               |
| TCL          | 34,93                      | 49,21            | 12,7/17,5     |               |
| TBR          | 34,93                      | 49,45            | 12,70         | GD            |
| HTCL         | 34,93                      | 49,53            | 7,90          |               |
| HTCWL        | 34,93                      | 49,53            | 12,70         |               |
| SAFE         | 34,93                      | 49,53            | 15,90         | ND            |
| HTCR         | 34,93                      | 49,61            | 12,1/12,7     |               |
| HTBRL        | 34,93                      | 49,61            | 12,70         | P0            |
| SB2          | 34,93                      | 50,37            | 7,90          | P0            |
| HSB2R        | 34,93                      | 50,42            | 6,40          | P0            |
| SB2          | 34,93                      | 50,80            | 7,90          | GD            |
| TB2          | 34,93                      | 50,80            | 7,90          | GD            |
| TB2          | 34,93                      | 50,80            | 7,90          | P2            |
| SA2          | 34,93                      | 50,80            | 8,33          | GD            |
| TB2          | 34,93                      | 50,80            | 9,50          | GD            |
| TB2          | 34,93                      | 50,80            | 9,50          | P2RD          |
| TB2          | 34,93                      | 52,00            | 7,90          | P2            |
| HSBRY        | 34,93                      | 52,00            | 8,4/10,9      | P0            |
| HTC3WR       | 34,93                      | 52,35            | 7,90          |               |
| TC4E         | 34,93                      | 52,39            | 7,90          | GR            |
| TCE          | 34,93                      | 52,39            | 7,90          | GR            |
| TCE          | 34,93                      | 52,39            | 7,90          | GR            |
| TCE          | 34,93                      | 52,39            | 7,90          | GR            |
| SA2          | 34,93                      | 52,39            | 9,50          | GD            |
| SB2          | 34,93                      | 52,39            | 9,50          | P0            |
| TB2I         | 34,93                      | 52,39            | 9,50          | GD            |
| SB2          | 34,93                      | 53,45            | 9,50          | P0            |
| TB2          | 34,93                      | 53,49            | 7,90          | P0            |
| VB21         | 34,93                      | 53,98            | 6,40          | GD            |
| TB2          | 34,93                      | 53,98            | 7,90          | P2            |
| TBR          | 34,93                      | 53,98            | 7,90          | ND            |
| SB2          | 34,93                      | 53,98            | 8,00          | NDRD          |
| TA2          | 34,93                      | 53,98            | 8,00          | P0            |
| SA2Y         | 34,93                      | 53,98            | 9,50          | ND            |
| SB2          | 34,93                      | 53,98            | 9,50          | P0            |
| TCI          | 34,93                      | 53,98            | 9,50          |               |
| SA2          | 34,93                      | 53,98            | 11,10         | GD            |
| SB2          | 34,93                      | 53,98            | 11,10         | P2RD          |
| TB2          | 34,93                      | 53,98            | 11,10         | P2            |
| TA5Y         | 34,93                      | 55/61,5          | 14,70         | P2            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTC59W       | 34,93                      | 56,51/61         | 10,29/14,29   | SSNDGR        |
| HTB5         | 34,93                      | 57/64            | 16,00         | P6GR5         |
| TB5I         | 34,93                      | 57/64            | 16,00         | P6            |
| TB2          | 34,93                      | 57,15            | 7,90          | GD            |
| HTB9YL       | 34,93                      | 57,15/63,5       | 9,5/22        | P0            |
| HTB5L        | 34,93                      | 57,15/63,5       | 10,70         | ND            |
| HTA5YL       | 34,93                      | 57,15/63,5       | 11/30         | P0            |
| HTB5L        | 34,93                      | 57,15/63,5       | 11,00         | P0            |
| TB2          | 34,93                      | 57,15            | 12,70         | GD            |
| TBY          | 34,93                      | 57,15            | 18,10         | ND            |
| TB5Y         | 34,93                      | 57,15/64,5       | 23,50         | P5            |
| KA4T         | 34,93                      | 57,20            | 8,30          | P0            |
| KBR          | 34,93                      | 57,96            | 6,40          | ND            |
| HTB5I        | 34,93                      | 58,15/66         | 13,3/14,5     | ND            |
| HTB2         | 34,93                      | 58,20            | 11,90         | P0            |
| BE           | 34,93                      | 58,74/64         | 6,40          |               |
| Y5           | 34,93                      | 59,06/115,8      | 3/12,7        |               |
| HTB5L        | 34,93                      | 60,3/65,5        | 12,70         | PORD          |
| VB21         | 34,93                      | 60,33            | 6,40          | P2            |
| TB2          | 34,93                      | 60,33            | 7,90          | P2R5          |
| SA2E         | 34,93                      | 60,33            | 12,70         | ND            |
| SB2          | 34,93                      | 60,33            | 12,70         | P0            |
| SB2          | 34,93                      | 61,91            | 6,35          | GD            |
| SB2          | 34,93                      | 61,91            | 11,90         | GD            |
| TA2          | 34,93                      | 62,00            | 7,90          | P5            |
| TB2          | 34,93                      | 62,00            | 7,90          | ND            |
| TB2          | 34,93                      | 62,00            | 9,50          | P2RD          |
| SBC          | 34,93                      | 63,50            | 7,90          | ND            |
| SBRY         | 34,93                      | 63,50            | 7,9/10,3      | ND            |
| HTCI         | 34,93                      | 63,50            | 12,70         |               |
| SA2          | 34,93                      | 63,50            | 12,70         | GD            |
| VBRY         | 34,93                      | 63,55            | 6,40          | ND            |
| TB2          | 34,93                      | 63,55            | 9,50          | P2            |
| TBR          | 34,93                      | 63,55            | 9,50          | GD            |
| TB2          | 34,93                      | 65,05            | 9,50          | P0            |
| TB2          | 34,93                      | 72,00            | 7,90          | P2RD          |
| TB2          | 34,93                      | 72,00            | 9,50          | GD            |
| TB5          | 34,93                      | 72/76,6          | 9,90          | ND            |
| TB2          | 34,93                      | 72,00            | 11,90         | ND            |
| HTB5AI       | 34,93                      | 73,03/79,75      | 7,9/14,3      | P0            |
| HTB5I        | 34,93                      | 73,03/79,75      | 7,9/14,3      | P0            |
| TB2          | 34,93                      | 73,03            | 11,90         | P2            |
| TA2          | 34,93                      | 76,20            | 12,70         | GD            |
| HTBCWL       | 34,93                      | 89,97            | 10,00         | ND            |
| SBY          | 34,93                      | 116,38           | 6,40          | ND            |
| HTBC57       | 34,95                      | 65,28/71         | 12,00         | NDGR          |
| HTB42I       | 34,97                      | 62,02            | 8,00          | SSP2GR        |
| TA5Y         | 34,98                      | 54,92/61         | 18,90         | P0            |
| HTA5YI       | 34,98                      | 73/79            | 17,60         | P5            |
| SL5          | 35,00                      | 39/55            | 19,00         | GD            |
| SCY          | 35,00                      | 41,00            | 5,5/9         |               |
| KC           | 35,00                      | 42,00            | 3,00          |               |
| VB2          | 35,00                      | 42,00            | 3,5/5,7       | ND            |
| KB           | 35,00                      | 42,00            | 4,00          | GD            |
| VBG          | 35,00                      | 42,00            | 4,00          | GD            |
| BU           | 35,00                      | 42,00            | 13,00         | GD            |
| VATHP        | 35,00                      | 44,00            | 6,00          |               |
| VCHP         | 35,00                      | 44,00            | 6,00          |               |
| DC           | 35,00                      | 44,00            | 7,00          |               |
| TB           | 35,00                      | 44,00            | 7,00          | GD            |
| TB3          | 35,00                      | 44,00            | 7,00          | GD            |
| TB4          | 35,00                      | 44,90            | 7,70          | ND            |
| VB2          | 35,00                      | 45,00            | 3,50          | ND            |
| SB2          | 35,00                      | 45,00            | 4,00          |               |
| VAY          | 35,00                      | 45,00            | 4,00          | ND            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| VP           | 35,00                      | 45,00            | 4,00          |               |
| SB           | 35,00                      | 45,00            | 7,00          | GD            |
| TB           | 35,00                      | 45,00            | 8,00          | GD            |
| BU           | 35,00                      | 45,00            | 17,00         | GD            |
| SBJ          | 35,00                      | 46,00            | 3,50          | SSND          |
| HTCL         | 35,00                      | 46,00            | 7,00          |               |
| SCW          | 35,00                      | 47,00            | 5,00          |               |
| VB2          | 35,00                      | 47,00            | 5,00          | GD            |
| HTCR         | 35,00                      | 47,00            | 6,00          |               |
| HTCYL        | 35,00                      | 47/52            | 6,00          |               |
| TB           | 35,00                      | 47,00            | 6,00          | GD            |
| DKI          | 35,00                      | 47,00            | 7/10          | ND            |
| HSCWR        | 35,00                      | 47,00            | 7,00          | SS            |
| HTCWR        | 35,00                      | 47,00            | 7,00          |               |
| KC           | 35,00                      | 47,00            | 7,00          | GRLF          |
| SB           | 35,00                      | 47,00            | 7,00          | GD            |
| SCI          | 35,00                      | 47,00            | 7,00          | SS            |
| SCY          | 35,00                      | 47,00            | 7,00          | SS            |
| TC4L         | 35,00                      | 47,00            | 7/10          |               |
| TCI          | 35,00                      | 47,00            | 7,00          |               |
| DC4Y         | 35,00                      | 47,00            | 8/10,5        |               |
| TB           | 35,00                      | 47,00            | 8,00          | SSP2          |
| TB42         | 35,00                      | 47,00            | 8,00          | SSP2          |
| TBR          | 35,00                      | 47,00            | 8,00          | GD            |
| TCW          | 35,00                      | 47,00            | 8,00          | SS            |
| DC4          | 35,00                      | 47,00            | 10,00         | SS            |
| DKI          | 35,00                      | 47,00            | 10,00         |               |
| TC4          | 35,00                      | 47,00            | 10,00         |               |
| TCL          | 35,00                      | 47,00            | 10/10,5       |               |
| XICY3        | 35,00                      | 47,4/51          | 4,6/14        | SS            |
| XICY3        | 35,00                      | 47,5/53          | 5,6/15        | SS            |
| XICY3        | 35,00                      | 47,5/53          | 5,6/15        | SS            |
| TCW          | 35,00                      | 47,55            | 6,40          |               |
| TCW          | 35,00                      | 47,55            | 6,40          |               |
| VA2          | 35,00                      | 47,63            | 4,00          | ND            |
| HTBCR        | 35,00                      | 48,00            | 7,00          | ND            |
| HTBCWR       | 35,00                      | 48,00            | 7,00          | ND            |
| HTCR         | 35,00                      | 48,00            | 7,00          |               |
| TB           | 35,00                      | 48,00            | 7,00          | GD            |
| TC5J         | 35,00                      | 48/52            | 7/10          |               |
| TC5J         | 35,00                      | 48/52            | 7/10          | SS            |
| DC4Y         | 35,00                      | 48,00            | 8/10,5        | SS            |
| HTCR         | 35,00                      | 48,00            | 8,00          |               |
| TC4          | 35,00                      | 48,00            | 8,00          |               |
| TC4          | 35,00                      | 48,00            | 8,00          |               |
| TC5          | 35,00                      | 48/54            | 8/9           |               |
| TCL          | 35,00                      | 48,00            | 8/9,5         |               |
| HKCWRJ       | 35,00                      | 48,00            | 10,00         |               |
| HTCWR        | 35,00                      | 48,00            | 10,00         |               |
| KCWRJ        | 35,00                      | 48,00            | 10,00         |               |
| TC4          | 35,00                      | 48,00            | 10,50         |               |
| DC4          | 35,00                      | 48,00            | 11,00         | SS            |
| TC4          | 35,00                      | 48,00            | 11,00         |               |
| TC4          | 35,00                      | 48,00            | 11,00         |               |
| HTA5YL       | 35,00                      | 48/57            | 12/23         |               |
| HTB5YL       | 35,00                      | 48/57            | 12,00         | ND            |
| TC6Y         | 35,00                      | 48,00            | 12,5/14       |               |
| TB5Y         | 35,00                      | 48/55            | 13/15         | ND            |
| TCAY         | 35,00                      | 48,00            | 13/14,5       | GD            |
| TCLY         | 35,00                      | 48,00            | 13/14,5       |               |
| DA6Y         | 35,00                      | 48,00            | 13,2/14,2     |               |
| DA6Y         | 35,00                      | 48,00            | 13,2/14,2     |               |
| SCY          | 35,00                      | 48,00            | 13,20         |               |
| XICY         | 35,00                      | 48,50            | 4,7/14        |               |
| VCY          | 35,00                      | 48,50            | 5/7           |               |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br>Notes |
|--------------|-----------------------------------|----------------------------|-------------------------|---------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |               |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |               |
| XICY         | 35,00                             | 48,5/53                    | 5,6/15                  |               |
| HTB          | 35,00                             | 48,50                      | 8,50                    | ND            |
| HTCR         | 35,00                             | 49,00                      | 6,00                    | NDGR          |
| HTBCR        | 35,00                             | 49,00                      | 7,00                    |               |
| HTCR         | 35,00                             | 49,00                      | 7,00                    |               |
| HTCL         | 35,00                             | 49,20                      | 12,50                   |               |
| HTCL         | 35,00                             | 49,50                      | 7,5/8,5                 |               |
| HTCL         | 35,00                             | 49,50                      | 8/10                    |               |
| HSBCR        | 35,00                             | 50,00                      | 7,00                    | SSND          |
| HTCWR        | 35,00                             | 50,00                      | 7,00                    |               |
| OSC          | 35,00                             | 50,00                      | 7,00                    | SS            |
| SCI          | 35,00                             | 50,00                      | 7,00                    |               |
| SCW          | 35,00                             | 50,00                      | 7,00                    |               |
| TCI          | 35,00                             | 50,00                      | 7,00                    | SS            |
| TCI          | 35,00                             | 50,00                      | 7,00                    |               |
| TCL          | 35,00                             | 50,00                      | 7/8                     |               |
| HSCR         | 35,00                             | 50,00                      | 8,00                    |               |
| HTBCR        | 35,00                             | 50,00                      | 8,00                    | NDGR          |
| HTC3R        | 35,00                             | 50,00                      | 8,00                    |               |
| HTCL         | 35,00                             | 50,00                      | 8,00                    |               |
| HTCR         | 35,00                             | 50,00                      | 8,00                    |               |
| SCY          | 35,00                             | 50,00                      | 8,00                    | SS            |
| TCWI         | 35,00                             | 50,00                      | 8,00                    |               |
| HTBL         | 35,00                             | 50,00                      | 9,00                    | GD            |
| HSAE         | 35,00                             | 50,00                      | 9,50                    | ND            |
| HSAE         | 35,00                             | 50,00                      | 9,50                    | GD            |
| TB           | 35,00                             | 50,00                      | 9,50                    | GD            |
| HTCR         | 35,00                             | 50,00                      | 10,00                   |               |
| HTCWR        | 35,00                             | 50,00                      | 10,00                   | SS            |
| SB2          | 35,00                             | 50,00                      | 10,00                   | GD            |
| DC           | 35,00                             | 50,00                      | 11,00                   |               |
| HTCL         | 35,00                             | 50,00                      | 11,00                   |               |
| TC3          | 35,00                             | 50,00                      | 11,00                   |               |
| TCD          | 35,00                             | 50,00                      | 11,00                   |               |
| Y            | 35,00                             | 50/90                      | 11,5/49,5               |               |
| HTCR         | 35,00                             | 50,00                      | 12,00                   |               |
| DCW          | 35,00                             | 50,10                      | 10,8/11,3               |               |
| SCY          | 35,00                             | 51,00                      | 6,20                    |               |
| SCYJ         | 35,00                             | 51,00                      | 7,50                    |               |
| DCYJ         | 35,00                             | 51/55                      | 8/9,5                   | SS            |
| TB2          | 35,00                             | 51,00                      | 9,00                    | GD            |
| SCY          | 35,00                             | 52,00                      | 5,5/9                   |               |
| SB2          | 35,00                             | 52,00                      | 6,00                    | ND            |
| DCSWY        | 35,00                             | 52/65                      | 7/10,5                  | SS            |
| HTBCWL       | 35,00                             | 52,00                      | 7,00                    | ND            |
| HTBCWR       | 35,00                             | 52,00                      | 7,00                    | SSND          |
| SB2          | 35,00                             | 52,00                      | 7,00                    | GD            |
| SCW          | 35,00                             | 52,00                      | 7,00                    | SS            |
| TC5Y         | 35,00                             | 52/65                      | 7/10                    | SS            |
| HTC          | 35,00                             | 52,00                      | 8,00                    |               |
| HTCL         | 35,00                             | 52,00                      | 8,00                    |               |
| HTCR         | 35,00                             | 52,00                      | 8,00                    |               |
| HTCWI        | 35,00                             | 52,00                      | 8,00                    |               |
| SBR          | 35,00                             | 52,00                      | 8,00                    | ND            |
| TC40         | 35,00                             | 52,00                      | 8,00                    | SS            |
| SB2          | 35,00                             | 52,00                      | 8,80                    | ND            |
| HTCI         | 35,00                             | 52,00                      | 9,50                    |               |
| KC3S         | 35,00                             | 52/58                      | 10,50                   | GR            |
| TB2          | 35,00                             | 52,00                      | 11,00                   | GD            |
| DC           | 35,00                             | 52,00                      | 12,00                   | SS            |
| SCY          | 35,00                             | 53/53,5                    | 8,00                    |               |
| TCY          | 35,00                             | 53,00                      | 9/15,5                  | GR            |
| HTCWL        | 35,00                             | 53,26                      | 7,90                    |               |
| HTC          | 35,00                             | 54,00                      | 7,00                    |               |
| HTC7I        | 35,00                             | 54,00                      | 8/11,5                  |               |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTCL         | 35,00                      | 54,00            | 8,00          |               |
| HTCR         | 35,00                      | 54,00            | 8,00          | SS            |
| TB2          | 35,00                      | 54,00            | 8,00          | GD            |
| TBC57        | 35,00                      | 54/68            | 8,00          | ND            |
| HTC5         | 35,00                      | 54/61            | 8,5/10        | ND            |
| TB51         | 35,00                      | 54/61            | 8,80          | ND            |
| HTA51        | 35,00                      | 54/61            | 9/16,5        | ND            |
| HTC7         | 35,00                      | 54,00            | 9/14          |               |
| TB5          | 35,00                      | 54,00            | 9,00          | ND            |
| VAT2         | 35,00                      | 54,00            | 9,40          | ND            |
| HTBC7        | 35,00                      | 54,00            | 10/15         | ND            |
| HTBC7        | 35,00                      | 54,00            | 10/15         | ND            |
| TC7Y         | 35,00                      | 54,00            | 10/15         |               |
| HTA5Y        | 35,00                      | 54,85/61         | 14,50         | ND            |
| TB2          | 35,00                      | 55,00            | 5,00          | GD            |
| HTCI         | 35,00                      | 55,00            | 8,00          |               |
| HTCR         | 35,00                      | 55,00            | 8,00          |               |
| TB2          | 35,00                      | 55,00            | 8,00          | GD            |
| HTC7I        | 35,00                      | 55,00            | 9/15,5        |               |
| HTCWR        | 35,00                      | 55,00            | 9,00          | SS            |
| HTCR         | 35,00                      | 55,00            | 10,00         |               |
| TB2          | 35,00                      | 55,00            | 10,00         | GD            |
| HSBE         | 35,00                      | 55,00            | 11,00         | ND            |
| SB2E         | 35,00                      | 55,00            | 11,00         | GD            |
| TB2          | 35,00                      | 55,00            | 11,00         | GD            |
| TB2          | 35,00                      | 55,00            | 11,00         | P5            |
| TC3          | 35,00                      | 55,00            | 11,00         |               |
| TC6          | 35,00                      | 55,00            | 11,00         |               |
| TC7Y         | 35,00                      | 55,00            | 11/18         |               |
| HTCR         | 35,00                      | 55,00            | 12,00         |               |
| SB2          | 35,00                      | 55,00            | 12,00         | GD            |
| SCW          | 35,00                      | 55,00            | 12,00         |               |
| Y            | 35,00                      | 55,00            | 12,00         |               |
| HTA5Y        | 35,00                      | 55/61,5          | 14,70         | P2            |
| HTA5Y        | 35,00                      | 55/61,5          | 14,70         | P5GR5         |
| TCS          | 35,00                      | 55,00            | 16,00         | GR            |
| HTC7I        | 35,00                      | 56,00            | 7,5/11,5      |               |
| HTC7L        | 35,00                      | 56,00            | 8/11,5        |               |
| HTC8L        | 35,00                      | 56,00            | 8/12,5        |               |
| HTC8R        | 35,00                      | 56,00            | 8/12,5        |               |
| HTCR         | 35,00                      | 56,00            | 8,00          |               |
| SB2          | 35,00                      | 56,00            | 8,00          | SSP2          |
| SCY          | 35,00                      | 56,00            | 8,00          |               |
| HTA5Y        | 35,00                      | 56/62            | 9/12,5        | P2GR          |
| HTB51        | 35,00                      | 56/62            | 9,00          | P2GR          |
| HTBC7Y       | 35,00                      | 56,00            | 9/14          | ND            |
| HTC7I        | 35,00                      | 56,00            | 9/15          |               |
| HTC7I        | 35,00                      | 56,00            | 9/15          |               |
| HTC7I        | 35,00                      | 56,00            | 9/12,5        |               |
| HTC7I        | 35,00                      | 56,00            | 9/12,5        |               |
| HTC7I        | 35,00                      | 56,00            | 9/15          |               |
| HTC7I        | 35,00                      | 56,00            | 9/12,5        |               |
| TA9Y         | 35,00                      | 56,00            | 9/14          | GR            |
| TC57         | 35,00                      | 56/63,5          | 9/16,5        | ND            |
| TC7          | 35,00                      | 56,00            | 9/14,8        |               |
| TC7Y         | 35,00                      | 56,00            | 9/15          |               |
| TC7Y         | 35,00                      | 56,00            | 9/12,5        |               |
| TCY          | 35,00                      | 56,00            | 9,00          | GR            |
| HTC7I        | 35,00                      | 56,00            | 10/13,5       |               |
| TB2          | 35,00                      | 56,00            | 10,00         | GD            |
| TC57         | 35,00                      | 56/63,7          | 10/16         |               |
| SB2          | 35,00                      | 56,00            | 12,00         | GD            |
| VY           | 35,00                      | 57,00            | 2,50          |               |
| SCW          | 35,00                      | 57,00            | 8,80          | SS            |
| HTC7L        | 35,00                      | 57,00            | 9/15          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| HTCWL        | 35,00                      | 57,00               | 9,00             |               |
| HTCWR        | 35,00                      | 57,00               | 9,00             |               |
| TB2          | 35,00                      | 57,00               | 9,00             | GD            |
| HTBC59       | 35,00                      | 57/63               | 10/13,5          | ND            |
| TB5I         | 35,00                      | 57/64               | 15,30            | P5            |
| HTB5         | 35,00                      | 57/64               | 19,00            | P0            |
| HTC7R        | 35,00                      | 58,00               | 8/11             |               |
| TB2          | 35,00                      | 58,00               | 8,00             | P9            |
| SCS          | 35,00                      | 58,00               | 8,50             |               |
| TB2          | 35,00                      | 58,00               | 9,00             | GD            |
| HTC7I        | 35,00                      | 58,00               | 10/13            |               |
| SA2          | 35,00                      | 58,00               | 10,00            | GD            |
| SA2S         | 35,00                      | 58,00               | 10,00            | GD            |
| SBY          | 35,00                      | 58,00               | 10/15            | GD            |
| SCE          | 35,00                      | 58,00               | 10,00            |               |
| SCEA         | 35,00                      | 58,00               | 10,00            | ND            |
| TB2          | 35,00                      | 58,00               | 10,00            | GD            |
| SCE          | 35,00                      | 58,00               | 11,00            |               |
| SCEA         | 35,00                      | 58,00               | 11,00            | ND            |
| SBRY         | 35,00                      | 58,00               | 12,50            | ND            |
| SL16         | 35,00                      | 58,20               | 13/14,5          | SSGDGR        |
| TB2I         | 35,00                      | 60,00               | 8,00             | GD            |
| DC           | 35,00                      | 60,00               | 10,00            |               |
| TCI          | 35,00                      | 60,00               | 10,00            |               |
| TC7          | 35,00                      | 61,00               | 9/13,5           |               |
| SCW          | 35,00                      | 62,00               | 7,00             | SS            |
| TB2          | 35,00                      | 62,00               | 7,00             | GD            |
| TCI          | 35,00                      | 62,00               | 7,00             |               |
| DC           | 35,00                      | 62,00               | 8/9              |               |
| HTC7R        | 35,00                      | 62,00               | 8/11,5           |               |
| HTC8L        | 35,00                      | 62,00               | 9/12,5           |               |
| HTC8R        | 35,00                      | 62,00               | 9/12,5           |               |
| HTC8WI       | 35,00                      | 62,00               | 9/12,5           |               |
| HTCI         | 35,00                      | 62,00               | 9,50             |               |
| TCWY         | 35,00                      | 62/74               | 9,5/12,5         | SS            |
| HTC8R        | 35,00                      | 62,00               | 10/16,5          |               |
| HTCWL        | 35,00                      | 62,00               | 10,00            |               |
| SB2          | 35,00                      | 62,00               | 10,00            | GD            |
| TC7Y         | 35,00                      | 62,00               | 10/16,5          |               |
| TCAW         | 35,00                      | 62,00               | 11/12,5          | SS            |
| VCYW         | 35,00                      | 62,00               | 11/12,5          |               |
| TB2          | 35,00                      | 62,00               | 12,00            | GD            |
| TAY          | 35,00                      | 62,00               | 15,10            | P5            |
| HTC7         | 35,00                      | 63,00               | 9/15,5           |               |
| HTC7L        | 35,00                      | 63,00               | 10/22            |               |
| TB7          | 35,00                      | 63,00               | 10/16,5          | GD            |
| TCWY         | 35,00                      | 63,30               | 9/12,5           |               |
| SBCY         | 35,00                      | 63,50               | 11,00            | ND            |
| TB2          | 35,00                      | 64,00               | 8,00             | P0            |
| HTB2R        | 35,00                      | 64,00               | 12,00            | GD            |
| HTCR         | 35,00                      | 64,00               | 13,00            |               |
| TB           | 35,00                      | 64,00               | 13,00            | GD            |
| TC42         | 35,00                      | 65,00               | 8,00             |               |
| HTBCL        | 35,00                      | 65,00               | 10,00            | ND            |
| HTC9W        | 35,00                      | 65,00               | 10/16            |               |
| TCA5Y        | 35,00                      | 65/76               | 10/16            | SS            |
| VC5Y         | 35,00                      | 65/76               | 10/16            |               |
| HTB2L        | 35,00                      | 65,00               | 12,00            | GD            |
| HTB7R        | 35,00                      | 65,00               | 12/19            | GD            |
| TB2          | 35,00                      | 65,00               | 12,00            | GD            |
| TCLW         | 35,00                      | 65,50               | 9/12             |               |
| TCWP         | 35,00                      | 65,55               | 10/12,5          |               |
| HTB57L       | 35,00                      | 67/73               | 12/19            | ND            |
| HTC7R        | 35,00                      | 67,00               | 12/18            |               |
| DC5AJ        | 35,00                      | 68/72               | 8/9,5            | SS            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| DCY          | 35,00                      | 68,00            | 8/9,5         | SS            |
| SC5XJ        | 35,00                      | 68/72            | 8/9,5         | SS            |
| HTC7L        | 35,00                      | 68,00            | 9/12,5        |               |
| HTC7L        | 35,00                      | 68,00            | 9/12,5        |               |
| HTC7R        | 35,00                      | 68,00            | 9/12,5        |               |
| TC7Y         | 35,00                      | 68,00            | 9/15,5        |               |
| HTC7R        | 35,00                      | 69,00            | 8/13          | GR            |
| SL16         | 35,00                      | 70,20            | 15,5/17       | SSGDGR        |
| TCYI         | 35,00                      | 72,00            | 3/7           |               |
| VY           | 35,00                      | 72,00            | 3,50          |               |
| TC5J         | 35,00                      | 72/76            | 7/9           | SS            |
| TC5Y         | 35,00                      | 72/76            | 7/9           | SS            |
| TCY          | 35,00                      | 72,00            | 7/8           | SS            |
| TCYJ         | 35,00                      | 72,00            | 7/8           |               |
| TCYJ         | 35,00                      | 72/73            | 7/8           | SS            |
| TC3I         | 35,00                      | 72,00            | 7,5/9,5       |               |
| TB2I         | 35,00                      | 72,00            | 8,00          | GD            |
| DCY          | 35,00                      | 72,00            | 9/11          | SS            |
| SC5          | 35,00                      | 72/76            | 9,00          | SS            |
| TC5Y         | 35,00                      | 72/76            | 9/11          |               |
| TB2          | 35,00                      | 72,00            | 9,50          | GD            |
| DCY          | 35,00                      | 72,00            | 10/11,5       | SS            |
| SA2          | 35,00                      | 72,00            | 10,00         | GD            |
| TB2          | 35,00                      | 72,00            | 10,00         | GD            |
| TC57WY       | 35,00                      | 72/79            | 11/16         | SS            |
| SA2          | 35,00                      | 72,00            | 12,00         | GD            |
| TC45Y        | 35,00                      | 72/80            | 13,00         |               |
| HTCYI        | 35,00                      | 73,00            | 10,00         |               |
| TC5A         | 35,00                      | 74/80,5          | 11/15         | SS            |
| TC5Y         | 35,00                      | 74/80,5          | 11/15         | SS            |
| SC5XJ        | 35,00                      | 75/78,5          | 8/10          | SS            |
| TC5          | 35,00                      | 75/79            | 8/10          | SS            |
| TC5AJ        | 35,00                      | 75/78,5          | 8/10          | SS            |
| SCYJ         | 35,00                      | 75,00            | 9/11          | SS            |
| TC7Y         | 35,00                      | 75,00            | 9/14          |               |
| TCAJ         | 35,00                      | 75,00            | 9/11          | SS            |
| TCY          | 35,00                      | 75,00            | 9/11          | SS            |
| HTC7I        | 35,00                      | 76,00            | 9/12,5        |               |
| HTC8L        | 35,00                      | 76,00            | 9/12,5        |               |
| HTC8R        | 35,00                      | 76,00            | 9/12,5        |               |
| TC42Y        | 35,00                      | 76,00            | 10/14         | SS            |
| SCY          | 35,00                      | 80,00            | 6/9           | SS            |
| SCY          | 35,00                      | 80,00            | 6,00          | SS            |
| SCYJ         | 35,00                      | 80,00            | 6/9           | SS            |
| DC5          | 35,00                      | 80/84            | 7/8,5         | SS            |
| DC5AJ        | 35,00                      | 80/84            | 7/8,5         | SS            |
| SC5          | 35,00                      | 80/84            | 7/8,5         | SS            |
| SB2          | 35,00                      | 80,00            | 8,00          | GD            |
| HTC5L        | 35,00                      | 80/84            | 9,00          |               |
| HTC5L        | 35,00                      | 80/84            | 9,00          |               |
| SA2          | 35,00                      | 80,00            | 13,00         | GD            |
| TB2          | 35,00                      | 81,00            | 10,00         | ND            |
| SB2          | 35,00                      | 85,00            | 10,00         | ND            |
| BE           | 35,05                      | 59/64            | 6,40          |               |
| HTBCWS       | 35,23                      | 58,29            | 14,20         | ND            |
| TB2          | 35,24                      | 59,13            | 7,90          | GD            |
| BE           | 35,30                      | 57,60            | 14,40         |               |
| TBC59I       | 35,32                      | 69,85/77         | 9,9/17,46     | ND            |
| OVY          | 35,36                      | 44,45            | 7,40          |               |
| KCSY         | 35,50                      | 73,00            | 7,50          | GR            |
| TB2          | 35,53                      | 57,15            | 6,40          | P0            |
| TB5Y         | 35,53                      | 58,17/64         | 12,70         | P0            |
| SB2          | 35,53                      | 58,21            | 12,70         | ND            |
| HTB2         | 35,53                      | 58,22            | 11,90         | P0            |
| TB5I         | 35,53                      | 63,04/70         | 8,50          | P0            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTB59I       | 35,56                      | 57,96/67         | 9,9/17,5      | NDGR          |
| HTB5         | 35,56                      | 57,96/66         | 13,90         | SSND          |
| TBR          | 35,56                      | 58,22            | 12,70         | ND            |
| VCY          | 35,69                      | 57,15            | 7,90          |               |
| OVC          | 35,70                      | 57,50            | 15,00         | ND            |
| VB5Y         | 35,72                      | 40,88            | 4,6/6,5       | ND            |
| TB2          | 35,80                      | 68,00            | 10,00         | GD            |
| BY           | 36,00                      | 41,70            | 25/29,5       | SUSGD         |
| KC6Y         | 36,00                      | 42,40            | 5/7           |               |
| XICY10       | 36,00                      | 42,5/45          | 5/11          | SS            |
| PY           | 36,00                      | 42,75            | 11,25         |               |
| UPH          | 36,00                      | 43,00            | 4,00          |               |
| KBR          | 36,00                      | 43,00            | 8,00          | ND            |
| SC5Y         | 36,00                      | 44,00            | 13,5/17       |               |
| OMY          | 36,00                      | 45,00            | 10,00         |               |
| TCL          | 36,00                      | 46,00            | 7/9           |               |
| SB           | 36,00                      | 46,00            | 9,00          | GD            |
| SBR          | 36,00                      | 46,00            | 9,00          | GD            |
| TB           | 36,00                      | 46,00            | 9,00          | GD            |
| SCY          | 36,00                      | 46,00            | 10,00         |               |
| TC4Y         | 36,00                      | 46,00            | 10,2/13,5     | SS            |
| TC4Y         | 36,00                      | 46,00            | 10,2/13,5     | SS            |
| HTCR         | 36,00                      | 47,00            | 7,00          | SS            |
| TCL          | 36,00                      | 48,00            | 8/9,5         |               |
| HTCL         | 36,00                      | 48,00            | 10,00         |               |
| TC4          | 36,00                      | 48,00            | 10,50         |               |
| TC4L         | 36,00                      | 48,00            | 10,5/12       |               |
| DC           | 36,00                      | 48,00            | 11,00         |               |
| TC4L         | 36,00                      | 48,00            | 11/12,5       |               |
| XICY3        | 36,00                      | 48,5/52,5        | 4,6/14        | SS            |
| XICY1        | 36,00                      | 48,50            | 5,5/9,5       |               |
| HTCR         | 36,00                      | 49,00            | 7,00          |               |
| HTCR         | 36,00                      | 49,50            | 7,00          |               |
| HTCWR        | 36,00                      | 50,00            | 7,00          |               |
| TA2          | 36,00                      | 50,00            | 7,00          | GD            |
| TBR          | 36,00                      | 50,00            | 7,00          | GD            |
| HSCWR        | 36,00                      | 50,00            | 8,00          |               |
| HTCL         | 36,00                      | 50,00            | 8,00          |               |
| DC4          | 36,00                      | 50,00            | 11,00         | SS            |
| KAL3         | 36,00                      | 52,00            | 5,60          | ND            |
| HTCL         | 36,00                      | 52,00            | 8,00          |               |
| TCJ          | 36,00                      | 52,00            | 8,00          |               |
| HTCL         | 36,00                      | 52,00            | 10,00         |               |
| TC42         | 36,00                      | 52,00            | 10/11         |               |
| TCW          | 36,00                      | 52,50            | 8,00          |               |
| HSCWL        | 36,00                      | 53,00            | 8,00          | SSGR          |
| HSCWL        | 36,00                      | 53,00            | 8,00          | SS            |
| TB2          | 36,00                      | 54,00            | 7,00          | GD            |
| HTCR         | 36,00                      | 54,00            | 10,00         |               |
| TBCW7R       | 36,00                      | 54,00            | 10/13,5       | ND            |
| HTCR         | 36,00                      | 54,00            | 11,00         |               |
| TB2          | 36,00                      | 54,00            | 11,00         | GD            |
| TB2I         | 36,00                      | 55,00            | 6,50          | GD            |
| TB2I         | 36,00                      | 55,00            | 8,00          | GD            |
| DCJ          | 36,00                      | 55,00            | 10,00         | SS            |
| HTBE         | 36,00                      | 55,00            | 11,00         | ND            |
| TBCW7L       | 36,00                      | 56,00            | 10/13,5       | ND            |
| HTCWR        | 36,00                      | 57,00            | 10,00         | SS            |
| TB2          | 36,00                      | 58,00            | 8,00          | PO            |
| HTCWSR       | 36,00                      | 58/63            | 9,9/13,6      | ND            |
| TCW5AR       | 36,00                      | 58/63            | 9,9/13,6      |               |
| HTCR         | 36,00                      | 59,00            | 7,00          |               |
| HTCSL        | 36,00                      | 59,7/68          | 8/9           |               |
| TCIW         | 36,00                      | 60,00            | 10,00         |               |
| TCW          | 36,00                      | 62,00            | 7,00          |               |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SCEY         | 36,00                      | 62,00            | 8/19          |               |
| TCS          | 36,00                      | 62/70            | 11,50         | GR            |
| TCS          | 36,00                      | 62/72            | 12,5/17       | SSGR          |
| TCS          | 36,00                      | 62,00            | 16,00         |               |
| TCS          | 36,00                      | 62/72            | 17,00         | GR            |
| DCSY         | 36,00                      | 68/69,5          | 8,00          | SS            |
| SB2          | 36,00                      | 68,00            | 8,00          | GD            |
| TB2          | 36,00                      | 68,00            | 12,00         | GD            |
| DC5          | 36,00                      | 72/76            | 6,7/8,7       |               |
| TCSJ         | 36,00                      | 80/83            | 6,5/8         | SS            |
| SCS5         | 36,00                      | 80/83,5          | 8/10          | SS            |
| SCSY         | 36,00                      | 80/83,5          | 8/10          | SS            |
| TCS          | 36,00                      | 80/83,5          | 8,00          | SS            |
| OVY          | 36,15                      | 49,50            | 8,50          | ND            |
| KB           | 36,50                      | 43,00            | 8,00          | GD            |
| KB           | 36,50                      | 43,50            | 8,00          | GD            |
| HTBCR        | 36,50                      | 50,50            | 7,00          | NDGR          |
| HTCR         | 36,50                      | 50,50            | 7,00          |               |
| HTCR         | 36,50                      | 50,50            | 7,00          |               |
| TCW          | 36,50                      | 52,50            | 8,00          |               |
| SB2          | 36,50                      | 68,22            | 7,90          | P5            |
| KBSY         | 36,51                      | 42,26/50         | 4,8/6,3       | ND            |
| SBR          | 36,51                      | 44,45            | 4,90          | ND            |
| SB           | 36,51                      | 49,21            | 6,40          | GD            |
| TB2          | 36,51                      | 50,80            | 7,90          | ND            |
| HTC3WR       | 36,51                      | 52,39            | 7,90          |               |
| TB2          | 36,51                      | 52,39            | 7,90          | P2            |
| TB2          | 36,51                      | 53,98            | 7,90          | ND            |
| TB2I         | 36,51                      | 53,98            | 9,50          | GD            |
| SB2          | 36,51                      | 57,15            | 7,90          | P2            |
| TB2          | 36,51                      | 57,15            | 7,90          | P2            |
| TB2          | 36,51                      | 59,15            | 9,50          | NDRD          |
| TB2          | 36,51                      | 60,30            | 7,90          | P2RD          |
| TB2I         | 36,51                      | 60,33            | 9,50          | GD            |
| TB2          | 36,51                      | 63,55            | 7,90          | GD            |
| SB2          | 36,51                      | 63,55            | 12,70         | GD            |
| TB2          | 36,51                      | 68,22            | 9,50          | P0            |
| HTCWR        | 36,60                      | 52,35            | 8,00          |               |
| KC           | 36,75                      | 62,00            | 4,00          | GR            |
| VBSY         | 36,83                      | 42,29/50,8       | 6,30          | ND            |
| VBSY         | 36,83                      | 42,29/50,8       | 6,30          | ND            |
| SB           | 36,83                      | 50,80            | 7,90          | GD            |
| KCY          | 37,00                      | 47,00            | 4,00          |               |
| DC4Y         | 37,00                      | 49,00            | 8/10,5        | SS            |
| DC4Y         | 37,00                      | 49,00            | 8/10,5        | SS            |
| TCL          | 37,00                      | 49,00            | 8/9,5         |               |
| TCL          | 37,00                      | 49,00            | 8/9           |               |
| DC4Y         | 37,00                      | 49,10            | 8/10          | SS            |
| XICY         | 37,00                      | 49,3/54          | 5,6/13        | SS            |
| XICY3        | 37,00                      | 49,30            | 5,6/13        | SS            |
| XICY         | 37,00                      | 49,5/53,7        | 7,6/14        |               |
| HTCR         | 37,00                      | 50,00            | 6,00          |               |
| TB           | 37,00                      | 50,00            | 6,00          | GD            |
| HTCR         | 37,00                      | 50,00            | 7,00          |               |
| HKCWR        | 37,00                      | 50,00            | 8,00          |               |
| HTCL         | 37,00                      | 50,00            | 9,00          |               |
| DC4          | 37,00                      | 50,00            | 11,00         | SS            |
| TC4          | 37,00                      | 50,00            | 11,00         |               |
| XICY3        | 37,00                      | 50,3/55          | 5,5/12,5      | SS            |
| HTCR         | 37,00                      | 50,50            | 7,00          |               |
| KC7          | 37,00                      | 51,00            | 6/9           |               |
| TB2          | 37,00                      | 56,00            | 9,00          | GD            |
| TC9I         | 37,00                      | 56,00            | 9/12,5        |               |
| HTCL         | 37,00                      | 57,00            | 10,00         |               |
| HTCWR        | 37,00                      | 57,00            | 10,00         |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTCWR        | 37,00                      | 57,00            | 10,00         |               |
| HTBC7R       | 37,00                      | 58,00            | 10/13,5       | ND            |
| HTC42L       | 37,00                      | 60,00            | 10,00         |               |
| TC7Y         | 37,00                      | 61,00            | 8/12          |               |
| HTCWL        | 37,00                      | 61,00            | 10,00         |               |
| HTCWL        | 37,00                      | 61,00            | 10,00         |               |
| KC6Y         | 37,00                      | 62,00            | 7,00          |               |
| SCE          | 37,00                      | 62,00            | 12,50         |               |
| SCEA         | 37,00                      | 62,00            | 12,50         | ND            |
| SCE          | 37,00                      | 62,00            | 14,00         |               |
| SCEA         | 37,00                      | 62,00            | 14,00         | ND            |
| HTC7L        | 37,00                      | 64,00            | 11/16         | GR            |
| TCLW         | 37,00                      | 66,00            | 9,5/12        |               |
| TCS          | 37,00                      | 72/81            | 11/15,5       | SSGR          |
| TCLW         | 37,00                      | 76,00            | 9,5/12        |               |
| TC42I        | 37,00                      | 76,00            | 11,00         | SS            |
| SBCY         | 37,00                      | 78,30            | 8/12          | ND            |
| DCS          | 37,00                      | 80/87            | 8,40          | SS            |
| DCSJ         | 37,00                      | 80/87            | 8,40          | SS            |
| DCY          | 37,00                      | 80,00            | 10/11,5       | SS            |
| TC9WY        | 37,21                      | 60,25            | 11/26,5       |               |
| TCSY         | 37,21                      | 60,25/74         | 11,10         |               |
| TCSAY        | 37,21                      | 60,25/74         | 38,10         |               |
| SB           | 37,30                      | 53,98            | 6,40          | SSSGD         |
| SBA          | 37,30                      | 53,98            | 6,40          | SSSGD         |
| TB2          | 37,30                      | 60,33            | 9,50          | ND            |
| SB           | 37,31                      | 52,39            | 12,70         | SSGD          |
| HTBC57       | 37,31                      | 78,17/84,53      | 11,1/15,88    | SSGRD         |
| VBX          | 37,35                      | 44,75/47,62      | 6,40          | ND            |
| VB2          | 37,50                      | 45,00            | 4,00          | GD            |
| OKB          | 37,50                      | 46,5/55          | 2,7/3,9       | ND            |
| KC           | 37,50                      | 47,00            | 7,00          |               |
| HTCR         | 37,50                      | 49,00            | 7,50          |               |
| TB42Y        | 37,50                      | 70,00            | 7/13          | P5GRD         |
| HSCYR        | 37,50                      | 88,00            | 7,00          |               |
| HSCYL        | 37,50                      | 88,00            | 8,8/11,5      |               |
| HDCAW        | 37,50                      | 88,00            | 16,00         |               |
| VBY          | 37,57                      | 65,10            | 12,10         | PORD          |
| HTCR         | 37,67                      | 50,04            | 7,90          | SS            |
| SA2          | 37,87                      | 55,65            | 6,40          | GD            |
| OKAL3        | 37,92                      | 58,06            | 8,00          | ND            |
| OKBL3        | 37,92                      | 58,06            | 9,00          | ND            |
| TBE          | 37,95                      | 50,67            | 6,40          | ND            |
| SC5Y         | 38,00                      | 44/47,5          | 12,8/17,5     |               |
| KB           | 38,00                      | 45,00            | 8,00          | GD            |
| VBY          | 38,00                      | 46,00            | 4,5/6         | ND            |
| Y            | 38,00                      | 46/52            | 6,5/15        | ND            |
| Y            | 38,00                      | 46/52            | 6,5/15        | ND            |
| SC5WY        | 38,00                      | 46/52            | 7,5/16,5      |               |
| TBR          | 38,00                      | 47,00            | 7,00          | GD            |
| SB           | 38,00                      | 47,00            | 10,00         | GD            |
| SBR          | 38,00                      | 47,00            | 10,00         | GD            |
| TB3          | 38,00                      | 47,00            | 10,00         | GD            |
| TB           | 38,00                      | 47,50            | 5,00          | GD            |
| VAY          | 38,00                      | 48,00            | 4,00          | ND            |
| TC4          | 38,00                      | 48,00            | 10,00         |               |
| HTCL         | 38,00                      | 49,20            | 9,00          | SS            |
| TB           | 38,00                      | 49,20            | 9,00          | GD            |
| HTBL         | 38,00                      | 49,21            | 9,00          | GD            |
| HTCR         | 38,00                      | 50,00            | 6,00          |               |
| HTCWR        | 38,00                      | 50,00            | 6,00          |               |
| KC7          | 38,00                      | 50,00            | 6/9           |               |
| HSCI         | 38,00                      | 50,00            | 7,00          |               |
| KC           | 38,00                      | 50,00            | 7,00          |               |
| SB2          | 38,00                      | 50,00            | 7,00          | SSGD          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| TB           | 38,00                      | 50,00               | 7,00             | GD            |
| TCWI         | 38,00                      | 50,00               | 7,00             | SS            |
| HTBCR        | 38,00                      | 50,00               | 8/8,5            | NDGR          |
| HTCL         | 38,00                      | 50,00               | 8,00             | GR            |
| HTCR         | 38,00                      | 50,00               | 8,00             |               |
| TC7          | 38,00                      | 50,00               | 8/13             |               |
| TCL          | 38,00                      | 50,00               | 8/9,5            |               |
| HTCL         | 38,00                      | 50,00               | 9,00             |               |
| HTCR         | 38,00                      | 50,00               | 10,00            |               |
| DC4          | 38,00                      | 50,00               | 10,50            | SS            |
| TC4          | 38,00                      | 50,00               | 10,50            |               |
| HTCL         | 38,00                      | 50,00               | 11,00            |               |
| KB           | 38,00                      | 50,30               | 10,00            | GD            |
| KB2          | 38,00                      | 50,30               | 10/4             | ND            |
| XICY1        | 38,00                      | 50,50               | 5,3/9,5          |               |
| HTCR         | 38,00                      | 50,50               | 7,50             |               |
| XICY3        | 38,00                      | 50,5/54             | 9/14             | SS            |
| TB           | 38,00                      | 51,00               | 7,00             | GD            |
| HTCR         | 38,00                      | 51,00               | 8,00             |               |
| SCY          | 38,00                      | 51,00               | 8,50             |               |
| HTASYL       | 38,00                      | 51/60,4             | 12/22,5          |               |
| HTBSYL       | 38,00                      | 51/60,4             | 12/19,5          |               |
| HTBSYL       | 38,00                      | 51/58               | 13/15            | ND            |
| TBSY         | 38,00                      | 51/58               | 13/15            | ND            |
| HTCWR        | 38,00                      | 52,00               | 6,00             |               |
| KB2          | 38,00                      | 52,00               | 6,00             | GD            |
| KC           | 38,00                      | 52,00               | 6,00             |               |
| TB2          | 38,00                      | 52,00               | 6,00             | GD            |
| TC57         | 38,00                      | 52/62               | 6/14             |               |
| HTCWR        | 38,00                      | 52,00               | 7,00             |               |
| SB           | 38,00                      | 52,00               | 7,00             | GD            |
| SCJ          | 38,00                      | 52,00               | 7,00             |               |
| TA2          | 38,00                      | 52,00               | 7,00             | GD            |
| TB2          | 38,00                      | 52,00               | 7,00             | GD            |
| TBRJ         | 38,00                      | 52,00               | 7,00             | ND            |
| TCI          | 38,00                      | 52,00               | 7,00             |               |
| HSCR         | 38,00                      | 52,00               | 8,00             |               |
| HTCR         | 38,00                      | 52,00               | 8,00             |               |
| KC           | 38,00                      | 52,00               | 9,50             |               |
| HTCL         | 38,00                      | 52,00               | 10,00            |               |
| SB2          | 38,00                      | 52,00               | 10,00            | ND            |
| HTCR         | 38,00                      | 52,50               | 6,00             |               |
| HSCL         | 38,00                      | 53,00               | 7,00             | SS            |
| HTCL         | 38,00                      | 53,00               | 8,00             | SS            |
| SBI          | 38,00                      | 54,00               | 6,00             | ND            |
| HTCR         | 38,00                      | 54,00               | 7,00             |               |
| SB           | 38,00                      | 54,00               | 7,00             | PO            |
| HTC7L        | 38,00                      | 54,00               | 8/11,5           |               |
| TB2I         | 38,00                      | 54,00               | 8,00             | GD            |
| HTC7R        | 38,00                      | 54,00               | 9/15             |               |
| TB2          | 38,00                      | 54,00               | 11,00            | GD            |
| HTC9YL       | 38,00                      | 54,00               | 12,5/27          |               |
| KC7          | 38,00                      | 55,00               | 6/9              |               |
| KC42         | 38,00                      | 55,00               | 7/8              |               |
| VCY          | 38,00                      | 55,00               | 7,00             |               |
| HTBR         | 38,00                      | 55,00               | 8,00             | GD            |
| HTBRY        | 38,00                      | 55,00               | 8,00             | ND            |
| HTCR         | 38,00                      | 55,00               | 8,00             | SS            |
| KC7          | 38,00                      | 55,00               | 8/15             |               |
| TBR          | 38,00                      | 55,00               | 8,00             | GD            |
| TC7Y         | 38,00                      | 55,00               | 8/12             |               |
| HTCR         | 38,00                      | 55,00               | 9,00             |               |
| TB           | 38,00                      | 55,00               | 9,00             | GD            |
| SCSY         | 38,00                      | 55/63               | 10,00            |               |
| KBR          | 38,00                      | 55,30               | 8/8,5            | ND            |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                     |                  | Note<br>Notes |
|--------------|-----------------------------------|---------------------|------------------|---------------|
|              | Diametro <i>Diameter</i>          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal               | Esterno<br>External |                  |               |
| HTC7L        | 38,00                             | 56,00               | 9/15             |               |
| TB2          | 38,00                             | 56,00               | 9,00             | GD            |
| HTBYR        | 38,00                             | 56,00               | 10/13,5          | ND            |
| SBY          | 38,00                             | 56,48               | 7,50             | ND            |
| KAY          | 38,00                             | 57/64               | 24,00            |               |
| Y            | 38,00                             | 57/64               | 24,00            | ND            |
| TA2          | 38,00                             | 58,00               | 8,00             | GD            |
| TB2          | 38,00                             | 58,00               | 8,00             | PO            |
| TB2          | 38,00                             | 58,00               | 8,50             | GD            |
| HTC7R        | 38,00                             | 58,00               | 10/17            |               |
| TB2          | 38,00                             | 58,00               | 10,50            | PO            |
| HTBRI        | 38,00                             | 58,00               | 11,00            | GD            |
| HTC          | 38,00                             | 58,00               | 11,00            |               |
| HTCL         | 38,00                             | 58,00               | 11,00            |               |
| HTCR         | 38,00                             | 58,00               | 11,00            |               |
| TB2          | 38,00                             | 58,00               | 11,00            | GD            |
| TB23         | 38,00                             | 58,00               | 11,00            | GD            |
| TB3          | 38,00                             | 58,00               | 11,00            | GD            |
| TC3          | 38,00                             | 58,00               | 11,00            |               |
| TCJ          | 38,00                             | 58,00               | 11,00            | SS            |
| SAFE         | 38,00                             | 58,00               | 17,00            | ND            |
| HTCR         | 38,00                             | 59,00               | 9,00             |               |
| HTCWL        | 38,00                             | 60,00               | 8,00             |               |
| TB2          | 38,00                             | 60,00               | 8,00             | GD            |
| TC7Y         | 38,00                             | 60,00               | 8/14,5           |               |
| HSC5         | 38,00                             | 60/66               | 11,00            |               |
| HTBSAL       | 38,00                             | 60/67               | 11/31            |               |
| HTBSYL       | 38,00                             | 60/67               | 11,00            |               |
| HTCA57       | 38,00                             | 60/66               | 11/14,8          |               |
| TB7Y         | 38,00                             | 62/67,5             | 5,5/12,5         | SSND          |
| HTCWL        | 38,00                             | 62,00               | 8,00             |               |
| KC7          | 38,00                             | 62,00               | 8/15             |               |
| HTC9I        | 38,00                             | 62,00               | 9/11,5           |               |
| HTCR         | 38,00                             | 62,00               | 10,00            |               |
| TB2          | 38,00                             | 62,00               | 11,00            | GD            |
| HTC7L        | 38,00                             | 63,00               | 9/15             |               |
| HTB9R        | 38,00                             | 63,00               | 10/25            | GD            |
| TB2          | 38,00                             | 63,50               | 10,00            | GD            |
| DC           | 38,00                             | 64,00               | 11,00            | SS            |
| DCA          | 38,00                             | 64,00               | 11/12,5          | SS            |
| HTB2R        | 38,00                             | 65,00               | 8,00             | GD            |
| TB2          | 38,00                             | 65,00               | 9,00             | GD            |
| HTB9R        | 38,00                             | 65,00               | 12/19            | GD            |
| TBR9         | 38,00                             | 65,00               | 12/19            | GD            |
| Y            | 38,00                             | 65,00               | 17,50            | GR            |
| HTCR         | 38,00                             | 66,00               | 8,00             |               |
| Y            | 38,00                             | 66,80               | 22,1/25,3        | NDGR          |
| TB2Y         | 38,00                             | 68,30               | 4,00             | ND            |
| OVY          | 38,00                             | 68,50               | 4,80             | ND            |
| TB2          | 38,00                             | 70,00               | 10,00            | GD            |
| HTB2R        | 38,00                             | 74,00               | 11,00            | GD            |
| HTB7I        | 38,00                             | 74,00               | 11/18            | ND            |
| TB2          | 38,00                             | 74,00               | 11,00            | GD            |
| TB7          | 38,00                             | 74,00               | 11/18            | GD            |
| TCI          | 38,00                             | 80,00               | 10,00            |               |
| HTCR         | 38,00                             | 85,00               | 10,00            |               |
| SB2          | 38,00                             | 90,00               | 8,00             | GD            |
| TCI          | 38,00                             | 90,00               | 10,00            |               |
| OVY          | 38,05                             | 45,04/62,2          | 10,10            | ND            |
| VP           | 38,10                             | 47,63               | 4,80             |               |
| UP           | 38,10                             | 47,60               | 9,50             |               |
| UP+OR        | 38,10                             | 47,60               | 9,50             |               |
| SB           | 38,10                             | 47,63               | 4,80             | GD            |
| SB           | 38,10                             | 47,63               | 4,80             | P2            |
| TB           | 38,10                             | 47,63               | 4,80             | P2            |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SB           | 38,10                      | 47,63            | 6,40          | GD            |
| TB           | 38,10                      | 47,63            | 6,40          | P2            |
| SB5Y         | 38,10                      | 47,63/52,5       | 6,50          | ND            |
| SA5Y         | 38,10                      | 47,63/63,5       | 8,90          | SSSGD         |
| SB           | 38,10                      | 48,70            | 6,40          |               |
| SB2          | 38,10                      | 48,80            | 6,40          | SSSGD         |
| SBR          | 38,10                      | 49,21            | 6,40          | ND            |
| HTCYL        | 38,10                      | 49,21            | 7,9/11,9      | ND            |
| TB           | 38,10                      | 49,23            | 4,80          |               |
| SA           | 38,10                      | 49,23            | 11,10         | P2            |
| TB2          | 38,10                      | 50,37            | 4,80          | ND            |
| TB2          | 38,10                      | 50,37            | 6,40          | GD            |
| VB2          | 38,10                      | 50,37            | 6,40          | GD            |
| SA2          | 38,10                      | 50,37            | 11,10         | GD            |
| VB2          | 38,10                      | 50,39            | 4,80          | ND            |
| TB           | 38,10                      | 50,47            | 4,80          | GD            |
| SB2          | 38,10                      | 50,47            | 7,90          | P0            |
| SCY          | 38,10                      | 50,50            | 2/5           | ND            |
| TB2          | 38,10                      | 50,50            | 6,40          |               |
| KB           | 38,10                      | 50,52            | 6,40          | ND            |
| VA2          | 38,10                      | 50,52            | 6,40          | GD            |
| KB45         | 38,10                      | 50,52/63         | 7,20          | ND            |
| SAVT         | 38,10                      | 50,77            | 9,50          | GD            |
| VB2          | 38,10                      | 50,80            | 4,80          | ND            |
| VAY          | 38,10                      | 50,80            | 5,60          | P2            |
| KC           | 38,10                      | 50,80            | 6,40          | GD            |
| TB23         | 38,10                      | 50,80            | 6,40          |               |
| TCW          | 38,10                      | 50,80            | 6,40          | SS            |
| TCWJ         | 38,10                      | 50,80            | 6,40          | SS            |
| KC42W        | 38,10                      | 50,80            | 7,90          | P2            |
| SB           | 38,10                      | 50,80            | 7,90          |               |
| TB           | 38,10                      | 50,80            | 7,90          | P0            |
| TBA          | 38,10                      | 50,80            | 7,90          | GD            |
| TB2          | 38,10                      | 50,80            | 9,50          | P0            |
| TBV          | 38,10                      | 51,05            | 5,60          | GD            |
| VB2          | 38,10                      | 52,37            | 5,30          | P5            |
| TB2          | 38,10                      | 52,39            | 6,40          | P2            |
| SB           | 38,10                      | 52,39            | 6,90          | P2            |
| TB2          | 38,10                      | 52,39            | 11,10         | ND            |
| SB           | 38,10                      | 53,98            | 7,90          | P5            |
| SB2Y         | 38,10                      | 53,98            | 7,90          | GD            |
| TB2          | 38,10                      | 53,98            | 8,00          | GD            |
| TB2          | 38,10                      | 53,98            | 8,00          | P5            |
| TB2          | 38,10                      | 53,98            | 9,50          | P2            |
| VCY          | 38,10                      | 53,98            | 9,50          | P0            |
| TB2          | 38,10                      | 53,98            | 11,10         |               |
| SAYFE        | 38,10                      | 54,89/60,33      | 19,05         | ND            |
| SBR          | 38,10                      | 55,55            | 6,40          | ND            |
| SBR          | 38,10                      | 55,57            | 6,90          | SSSND         |
| HTB7L        | 38,10                      | 56,00            | 10/14         | ND            |
| HSBSR        | 38,10                      | 57,15/62,2       | 7,90          | P0            |
| SA2Y         | 38,10                      | 57,15            | 7,90          | SSSGD         |
| TB2          | 38,10                      | 57,15            | 7,90          | GD            |
| TB2I         | 38,10                      | 57,15            | 7,90          | P2            |
| TB2Y         | 38,10                      | 57,15            | 7,90          | SSSGD         |
| HSBSR        | 38,10                      | 57,15/62,5       | 8,43          | P0            |
| SA2Y         | 38,10                      | 57,15            | 9,50          | GD            |
| SBR          | 38,10                      | 57,15            | 9,50          | SSSGD         |
| HSBRR        | 38,10                      | 57,15            | 9,90          | ND            |
| OVY1         | 38,10                      | 57,15/62,7       | 10,00         | GD            |
| TB2          | 38,10                      | 57,15            | 12,70         |               |
| TC4P         | 38,10                      | 57,20            | 7/11          | P2            |
| VB2          | 38,10                      | 57,25            | 6,40          |               |
| SA2          | 38,10                      | 57,25            | 7,90          | P0            |
| SB2          | 38,10                      | 57,40            | 10,30         | PORD          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TB2P         | 38,10                      | 58,70            | 12,70         | SSP5          |
| VB18         | 38,10                      | 58,93            | 12,70         | ND            |
| VB2          | 38,10                      | 59,11            | 10,30         | GD            |
| VBRY         | 38,10                      | 59,11            | 12,70         | ND            |
| TB2          | 38,10                      | 59,13            | 9,52          | GD            |
| VB2Y         | 38,10                      | 59,15            | 9,90          | GD            |
| OVY          | 38,10                      | 60,30            | 9,50          | ND            |
| HTBSL        | 38,10                      | 60,32/65         | 12,30         | P0            |
| HTBSL        | 38,10                      | 60,32/65         | 12,30         | P7            |
| KC           | 38,10                      | 60,33            | 6,40          |               |
| VB21         | 38,10                      | 60,33            | 6,40          | P2            |
| TB2          | 38,10                      | 60,33            | 7,90          | P2            |
| HTBC7L       | 38,10                      | 60,33            | 9,1/18        | ND            |
| HTB2L        | 38,10                      | 60,33            | 11,1/12,7     | GD            |
| HTCL         | 38,10                      | 60,33            | 11,10         |               |
| HSCI         | 38,10                      | 60,33            | 12,70         |               |
| HTCL         | 38,10                      | 60,33            | 12,70         |               |
| SB2          | 38,10                      | 60,33            | 12,70         | P0            |
| TB2          | 38,10                      | 60,33            | 12,70         | GD            |
| TB2          | 38,10                      | 60,33            | 12,70         | P2            |
| TB21         | 38,10                      | 60,33            | 12,70         | P2            |
| HTB21L       | 38,10                      | 60,33            | 13,10         | P0            |
| TB2          | 38,10                      | 62,00            | 7,90          | P2            |
| TB2I         | 38,10                      | 63,50            | 9,50          | GD            |
| SA2          | 38,10                      | 63,50            | 12,70         | ND            |
| TB2          | 38,10                      | 63,50            | 12,70         | P5            |
| SB2          | 38,10                      | 63,55            | 7,90          | GD            |
| TB2          | 38,10                      | 63,55            | 7,90          | ND            |
| SB2          | 38,10                      | 63,55            | 9,50          | P0            |
| SB2          | 38,10                      | 63,55            | 11,00         | P0            |
| VB21         | 38,10                      | 66,62            | 6,40          | ND            |
| TB2I         | 38,10                      | 66,68            | 9,50          | GD            |
| HTBYR        | 38,10                      | 66,68            | 15,88         | GD            |
| HTBSR        | 38,10                      | 67,47/75         | 11,10         | P0            |
| SB2          | 38,10                      | 68,22            | 12,70         | ND            |
| VAS          | 38,10                      | 68,99            | 6,40          | GD            |
| VAY          | 38,10                      | 69,09            | 6,40          | GD            |
| SB2          | 38,10                      | 69,85            | 7,90          | ND            |
| TB2          | 38,10                      | 69,85            | 7,90          | P2            |
| SB2          | 38,10                      | 70,05            | 12,70         | GD            |
| SB2          | 38,10                      | 72,00            | 7,90          | P2            |
| TB2          | 38,10                      | 72,00            | 7,90          | P0            |
| SB2          | 38,10                      | 73,00            | 11,90         | ND            |
| TB2I         | 38,10                      | 73,03            | 9,50          | GD            |
| TB2          | 38,10                      | 76,20            | 9,50          | P2            |
| TB2I         | 38,10                      | 76,20            | 9,50          | GD            |
| SB2          | 38,10                      | 79,38            | 9,50          | GD            |
| TB2          | 38,10                      | 79,38            | 9,53          | ND            |
| HTB4L        | 38,15                      | 54,00            | 12,50         | P0            |
| HTB4L        | 38,15                      | 60,38            | 12,70         | PORD          |
| HTBC7L       | 38,18                      | 60,33            | 9,1/18        | SSND          |
| HTBSYL       | 38,18                      | 60,35/67,2       | 10,7/19,4     | P0            |
| HTBSYL       | 38,18                      | 60,35/67,2       | 10,7/19,4     | P0            |
| VB2          | 38,40                      | 50,47            | 4,80          | GD            |
| Y5           | 38,50                      | 47/55            | 8/16          | P2            |
| SC4          | 38,50                      | 48,00            | 7,00          |               |
| VBCA         | 38,50                      | 50,80            | 7,9/9,9       | ND            |
| VBCA         | 38,50                      | 50,80            | 7,9/9,9       | ND            |
| VBCY         | 38,50                      | 50,80            | 7,9/9,9       | ND            |
| VBCY         | 38,50                      | 50,80            | 9,30          | ND            |
| HTCR         | 38,50                      | 53,00            | 8,00          |               |
| HSBRR        | 38,50                      | 57,00            | 9,50          | GD            |
| HTCR         | 38,50                      | 58,00            | 8,50          |               |
| TC3          | 38,50                      | 58,00            | 8,50          |               |
| HTCR         | 38,50                      | 58,00            | 11,00         |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TC3          | 38,50                      | 58,00            | 11,00         |               |
| HTCR         | 38,50                      | 63,50            | 9,50          |               |
| HTCWL        | 38,50                      | 79,80            | 8,00          |               |
| HTBSI        | 38,63                      | 67,46/75         | 10,80         | P0            |
| HTBC5I       | 38,63                      | 67,46/73         | 11,10         | ND            |
| SB5Y         | 38,63                      | 73,46            | 23,80         | ND            |
| SBY          | 38,68                      | 68,94            | 12,70         | ND            |
| SA2          | 38,71                      | 60,30            | 9,50          | P5            |
| VBY          | 38,80                      | 65,86/75,8       | 6,4/12,7      |               |
| SC5AY        | 38,90                      | 55,27/59,46      | 8,10          | SS            |
| SC5Y         | 38,90                      | 55,27/59,46      | 8,10          | SS            |
| RO           | 39,00                      | 43,00            | 7,00          |               |
| TB           | 39,00                      | 49,00            | 8,50          | GD            |
| TB           | 39,00                      | 50,40            | 7,10          | GD            |
| TBR          | 39,00                      | 50,40            | 8,50          | ND            |
| TBR          | 39,00                      | 50,40            | 9,00          | ND            |
| VBY          | 39,00                      | 50,50            | 5,50          | ND            |
| TBR          | 39,00                      | 50,50            | 8,50          | GD            |
| TC4L         | 39,00                      | 51,00            | 8/10,5        |               |
| TC4L         | 39,00                      | 51,00            | 10,5/12       |               |
| XICY1        | 39,00                      | 51,3/55,7        | 4,8/11,5      |               |
| KB           | 39,00                      | 52,00            | 6,00          | GD            |
| TB7R         | 39,00                      | 52,00            | 6/11,5        | GD            |
| TB9YSF       | 39,00                      | 52,00            | 6/11,5        | GD            |
| TCL          | 39,00                      | 52,00            | 8/9           |               |
| DC4          | 39,00                      | 52,00            | 11,00         | SS            |
| XICY1        | 39,00                      | 52,5/59          | 5,6/14,5      |               |
| KB2          | 39,00                      | 54,00            | 6,00          | GD            |
| HSCWLY       | 39,00                      | 55/58            | 5,5/15,5      | ND            |
| TBC9         | 39,00                      | 55,00            | 7,5/10,5      | ND            |
| TCA          | 39,00                      | 55,00            | 8,00          | GR            |
| TCI          | 39,00                      | 55,00            | 8,00          |               |
| TA2          | 39,00                      | 55,50            | 10,00         | GD            |
| HTCWR        | 39,00                      | 57,00            | 9,70          | SS            |
| TC7Y         | 39,00                      | 57,00            | 11/17         |               |
| TC7Y         | 39,00                      | 57,00            | 15,5/21,5     |               |
| HDCWAL       | 39,00                      | 58/59            | 12/17         | ND            |
| VBY          | 39,00                      | 58,50            | 7,80          |               |
| HSCWRY       | 39,00                      | 59,00            | 7,5/12,5      | ND            |
| TBC9Y        | 39,00                      | 59,00            | 8/13          | ND            |
| TC7Y         | 39,00                      | 59,00            | 11/17         |               |
| TB2          | 39,00                      | 60,00            | 9,00          | ND            |
| TCE          | 39,00                      | 60,00            | 9,00          |               |
| SB2E         | 39,00                      | 60,00            | 10,00         | GD            |
| TB2          | 39,00                      | 60,00            | 10,00         | GD            |
| TB42Y        | 39,00                      | 60/82            | 11/12,5       | ND            |
| TBC16        | 39,00                      | 60,00            | 13,00         | NDGR          |
| TCS          | 39,00                      | 60/66            | 13/17,5       | SS            |
| HTC7YR       | 39,00                      | 66,00            | 8/11,5        |               |
| HTC7R        | 39,00                      | 68,00            | 9/15,5        |               |
| HTC7R        | 39,00                      | 68,00            | 16/22,5       |               |
| TBC7Y        | 39,00                      | 69,00            | 8/16,5        | ND            |
| DC           | 39,00                      | 70,00            | 11,00         |               |
| DCA          | 39,00                      | 70,00            | 11,00         | ND            |
| TCY          | 39,00                      | 70,00            | 11/20         | SS            |
| HTCL         | 39,00                      | 72,00            | 8,00          |               |
| HTCWL        | 39,00                      | 72,00            | 8,00          |               |
| HSB2Y        | 39,00                      | 72,00            | 12,70         | P6            |
| TBC16        | 39,00                      | 72,00            | 16,50         | NDGR          |
| TB7R         | 39,00                      | 72,50            | 8/15          | GD            |
| SCY          | 39,00                      | 76,50            | 10,5/14       |               |
| OKBY         | 39,08                      | 74,78            | 8,63/12,15    | GDGR          |
| HKCSJ        | 39,30                      | 53/60            | 10,00         |               |
| HTB45R       | 39,37                      | 62,15/68,7       | 12,70         | P0            |
| TBSYI        | 39,40                      | 69,85            | 6,4/15        | ND            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TBC59I       | 39,42                      | 62,15/68         | 9,90          | ND            |
| SBR          | 39,42                      | 68,22            | 12,70         | ND            |
| TB14         | 39,42                      | 69,85            | 6,4/12,4      | GD            |
| TB14         | 39,42                      | 69,85            | 6,4/16,9      | ND            |
| TA5Y         | 39,42                      | 80,26            | 6,4/17,6      | SSND          |
| TB14         | 39,42                      | 80,26            | 6,4/16,4      | ND            |
| TB5Y         | 39,42                      | 80,26/71,2       | 6,4/17,6      | P0            |
| HTB57R       | 39,42                      | 80,26/68         | 7,1/17,6      | P0            |
| HTB45I       | 39,45                      | 80,26            | 6,4/14        | ND            |
| HTB45I       | 39,45                      | 80,26            | 6,4/14        | GR            |
| TA5Y         | 39,45                      | 80,26            | 6,4/16,4      | ND            |
| SC5Y         | 39,50                      | 46/49,8          | 17,50         |               |
| BU           | 39,50                      | 50,00            | 26,00         | GD            |
| BO-2         | 39,50                      | 50,40            | 4,45/4,95     | ND            |
| HTCL         | 39,50                      | 52,00            | 10,00         |               |
| SBE          | 39,50                      | 60,00            | 10,00         | GD            |
| TB2          | 39,50                      | 60,00            | 10,00         | GD            |
| KAL3         | 39,52                      | 66,60            | 7,90          | NDGR          |
| TC42         | 39,60                      | 52,00            | 10/11         |               |
| HTB5I        | 39,60                      | 57,94/63,5       | 9,9/11,7      | P2            |
| TA5Y         | 39,60                      | 57,94/63,5       | 9,9/12,7      | P2            |
| VCEY         | 39,64                      | 69,95            | 5,50          |               |
| SA2          | 39,67                      | 57,15            | 9,50          | ND            |
| SB2          | 39,67                      | 63,50            | 12,70         | ND            |
| VB5Y         | 39,68                      | 46,56/55,88      | 6,30          | ND            |
| VB5Y         | 39,68                      | 46,56/55,88      | 6,30          | ND            |
| HTCR         | 39,68                      | 58,74            | 7,9/9,5       |               |
| TB5          | 39,68                      | 60,32/69         | 9,90          | ND            |
| SA2          | 39,68                      | 63,55            | 12,70         | P0            |
| TA2Y         | 39,68                      | 64,57            | 14,30         | P0            |
| OVY          | 39,68                      | 68,17            | 6,40          |               |
| TB2          | 39,68                      | 68,22            | 9,50          | P0            |
| SCJ          | 39,69                      | 50,80            | 4,40          | SS            |
| VB2          | 39,69                      | 52,39            | 5,30          | P2            |
| SB           | 39,69                      | 52,39            | 6,40          | ND            |
| SBR          | 39,69                      | 52,39            | 6,40          | P2            |
| SB2          | 39,69                      | 53,98            | 7,90          | ND            |
| TA2          | 39,69                      | 53,98            | 8,00          | P2            |
| TB2          | 39,69                      | 53,98            | 8,00          | ND            |
| TB2          | 39,69                      | 53,98            | 9,50          | P2            |
| TA2          | 39,69                      | 53,98            | 11,10         | P0            |
| TA2          | 39,69                      | 53,98            | 11,10         | GD            |
| TB2          | 39,69                      | 57,15            | 7,90          | P2            |
| TB6          | 39,69                      | 57,94/64         | 8,7/10,3      | P5            |
| TB5          | 39,69                      | 58,15/64         | 7,90          | P2            |
| SB2          | 39,69                      | 60,30            | 7,90          | ND            |
| TA2          | 39,69                      | 60,30            | 7,90          | ND            |
| TB2          | 39,69                      | 60,30            | 7,90          | ND            |
| VA2          | 39,69                      | 60,33            | 6,40          | P2            |
| SA2          | 39,69                      | 61,11            | 12,70         | GD            |
| TB2          | 39,69                      | 61,91            | 9,50          | P2            |
| TB2          | 39,69                      | 62,00            | 9,50          | P0            |
| TCYJ         | 39,69                      | 62,23            | 12,70         |               |
| OSA          | 39,69                      | 64,29            | 12,70         |               |
| TB2          | 39,69                      | 66,62            | 7,90          | P2            |
| DC5          | 39,69                      | 67,95/75,8       | 12,70         | SS            |
| TB2          | 39,69                      | 73,03            | 9,50          | GD            |
| HSB2         | 39,69                      | 73,03            | 12,70         | P0            |
| TB2          | 39,69                      | 80,00            | 7,90          | P2            |
| SBR          | 39,70                      | 57,15            | 6,40          | GD            |
| SAFE         | 39,70                      | 57,15            | 13,00         | ND            |
| HTCWR        | 39,70                      | 58,70            | 9,50          |               |
| TA5Y         | 39,70                      | 60,33/69         | 9,9/37        | P0            |
| TB5Y         | 39,70                      | 60,33/69         | 9,90          | P0            |
| TB2          | 39,70                      | 60,33            | 11,90         | ND            |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTC3R        | 39,70                      | 62,00            | 11,00         |               |
| HTC3R        | 39,70                      | 62,00            | 11,00         |               |
| TB2          | 39,70                      | 62,61            | 9,40          | SSP5          |
| HTA2EY       | 39,70                      | 62,64            | 9,40          | SSP4GR        |
| HTA2EY       | 39,70                      | 62,64            | 9,40          | SSP4GR        |
| TB2I         | 39,70                      | 62,64            | 9,40          | SSP5GR        |
| TB2I         | 39,70                      | 62,64            | 9,40          | P5GR          |
| TBEJ         | 39,70                      | 62,64            | 9,40          | SSP5GR        |
| HTA2Y        | 39,70                      | 62,64            | 9,5/11,8      | SSP2GR        |
| HTCAR        | 39,70                      | 62,64            | 9,5/11,65     | SSGR          |
| TB2I         | 39,70                      | 63,50            | 9,50          | GD            |
| SA2          | 39,70                      | 63,50            | 12,70         | P9            |
| TB2          | 39,70                      | 63,55            | 7,90          | P0            |
| SA2          | 39,70                      | 65,05            | 12,70         | P0            |
| OKBL3        | 39,70                      | 65,48            | 7,90          | ND            |
| VBRX3        | 39,70                      | 68,22            | 9,50          | ND            |
| SAFE         | 39,70                      | 68,26            | 11,10         | ND            |
| HTA5Y        | 39,70                      | 72/82            | 9,4/11,8      | SSP5GR        |
| HTA5Y        | 39,70                      | 72/82            | 9,4/11,8      | SSP7GR        |
| TB5I         | 39,70                      | 72/84,8          | 9,40          | SSP2GR        |
| TB5E         | 39,70                      | 72/84,8          | 9,50          | SSP2GR        |
| SB2          | 39,70                      | 73,03            | 7,90          | P5RD          |
| HSB5R        | 39,95                      | 61,91/68,8       | 7,90          | ND            |
| TB5Y         | 39,96                      | 57,94/63,5       | 9,90          | P2            |
| DC           | 39,98                      | 63,55            | 15,20         | GR            |
| TB35Y        | 40,00                      | 42,21/50,6       | 5,80          | SSND          |
| TB35Y        | 40,00                      | 42,21/50,6       | 5,80          | SSND          |
| TB45Y        | 40,00                      | 42,21/50,6       | 5,80          | SSND          |
| TB45Y        | 40,00                      | 42,21/50,6       | 5,80          | SSND          |
| XICY5        | 40,00                      | 45,8/49          | 8/12,5        |               |
| KC6Y         | 40,00                      | 46,00            | 5/7           |               |
| OVY          | 40,00                      | 46,00            | 6,00          | ND            |
| SC5Y         | 40,00                      | 46/49,5          | 12,8/17,5     |               |
| KB6Y         | 40,00                      | 46,40            | 5/9           | ND            |
| KC6Y         | 40,00                      | 46,40            | 5/7           |               |
| TB35Y        | 40,00                      | 46,6/55,53       | 5,7/9,1       | SSND          |
| TB35Y        | 40,00                      | 46,6/55,53       | 5,7/9,1       | SSND          |
| XICY10       | 40,00                      | 46,8/50,2        | 5/11          | SS            |
| XICY10       | 40,00                      | 46,8/50,2        | 5/11          | SS            |
| TB2          | 40,00                      | 47,00            | 4,00          | ND            |
| SBY          | 40,00                      | 47,40            | 10/15,2       | SS            |
| SCY          | 40,00                      | 47,40            | 10/15,2       | SS            |
| XICY3        | 40,00                      | 48,5/52          | 6/14          | SS            |
| TB           | 40,00                      | 49,00            | 5,50          | GD            |
| DC4Y         | 40,00                      | 49,50            | 7/9,5         | SS            |
| VCY          | 40,00                      | 49,60            | 5,5/7,7       |               |
| KCW          | 40,00                      | 50,00            | 4,00          |               |
| VAY          | 40,00                      | 50,00            | 4,00          | ND            |
| TB           | 40,00                      | 51,00            | 7,00          | GD            |
| KC           | 40,00                      | 52,00            | 4,00          |               |
| TCSY         | 40,00                      | 52/56            | 5/9           |               |
| VB2          | 40,00                      | 52,00            | 5,00          | GD            |
| HTBCR        | 40,00                      | 52,00            | 6,00          | SSND          |
| HTCAL        | 40,00                      | 52,00            | 6/7           | SSND          |
| HTCL         | 40,00                      | 52,00            | 6/7           | SS            |
| HTCR         | 40,00                      | 52,00            | 6,00          |               |
| TC5WY        | 40,00                      | 52/58            | 6/8           |               |
| TCC          | 40,00                      | 52/62            | 6/8,5         |               |
| TB6          | 40,00                      | 52/57            | 6,2/7,7       | P0            |
| TC57         | 40,00                      | 52/62            | 6,5/15        |               |
| DKI          | 40,00                      | 52,00            | 7/10          | ND            |
| HSCR         | 40,00                      | 52,00            | 7,00          | SS            |
| HTCL         | 40,00                      | 52,00            | 7,00          |               |
| HTCR         | 40,00                      | 52,00            | 7,00          |               |
| HTCWR        | 40,00                      | 52,00            | 7,00          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| KC           | 40,00                      | 52,00            | 7,00          | GRLF          |
| SB           | 40,00                      | 52,00            | 7,00          | GD            |
| SCI          | 40,00                      | 52,00            | 7,00          | SS            |
| SCJ          | 40,00                      | 52,00            | 7,00          |               |
| SCXS         | 40,00                      | 52,00            | 7,00          |               |
| TA2          | 40,00                      | 52,00            | 7,00          | GD            |
| TB           | 40,00                      | 52,00            | 7,00          | GD            |
| TC9          | 40,00                      | 52,00            | 7/10,5        |               |
| TCI          | 40,00                      | 52,00            | 7,00          |               |
| TCI          | 40,00                      | 52,00            | 7,00          | SS            |
| TCSWI        | 40,00                      | 52/58            | 7,50          |               |
| DC4Y         | 40,00                      | 52,00            | 8/10          |               |
| TB2          | 40,00                      | 52,00            | 8,00          | P0            |
| TC4L         | 40,00                      | 52,00            | 8/10,5        |               |
| TCCW         | 40,00                      | 52/58            | 8,00          |               |
| TCL          | 40,00                      | 52,00            | 8/9,5         |               |
| TCW          | 40,00                      | 52,00            | 8,00          |               |
| TCC          | 40,00                      | 52/58            | 8,50          |               |
| TCCW         | 40,00                      | 52/62            | 8,50          |               |
| TCWI         | 40,00                      | 52,00            | 9,00          |               |
| DKI          | 40,00                      | 52,00            | 10,00         |               |
| TB5          | 40,00                      | 52/58            | 10,00         | ND            |
| TB5Y         | 40,00                      | 52/58            | 10,00         | ND            |
| TC4L         | 40,00                      | 52,00            | 10/10,5       |               |
| DC4          | 40,00                      | 52,00            | 10,50         |               |
| DC4          | 40,00                      | 52,00            | 10,50         |               |
| DCWJ         | 40,00                      | 52,28            | 7,6/12        | SS            |
| TB           | 40,00                      | 52,39            | 5,80          | P2            |
| XICY         | 40,00                      | 52,5/56,6        | 4,6/14        | SS            |
| XICY3        | 40,00                      | 52,5/58,5        | 4,6/14        | SS            |
| XICY3        | 40,00                      | 52,5/58,5        | 4,6/14        | SS            |
| XICY3        | 40,00                      | 52,5/56,6        | 4,6/14        | SS            |
| BC           | 40,00                      | 53,00            | 1,70          |               |
| TB           | 40,00                      | 53,00            | 7,00          | GD            |
| KCSALJ       | 40,00                      | 53/60            | 10/11,2       |               |
| TC5          | 40,00                      | 53/60            | 10,00         | SSGR          |
| TC5          | 40,00                      | 53/60            | 10,00         | SSGR          |
| TBCSY        | 40,00                      | 53/72            | 12/30         | ND            |
| TBCY         | 40,00                      | 53/72            | 14/24,5       | ND            |
| TB           | 40,00                      | 54,00            | 5,00          | GD            |
| HTCL         | 40,00                      | 54,00            | 6,00          |               |
| TBR          | 40,00                      | 54,00            | 6,00          | ND            |
| HTCWL        | 40,00                      | 54,00            | 6,80          |               |
| HTCR         | 40,00                      | 54,00            | 7,00          |               |
| TB2          | 40,00                      | 54,00            | 7,00          | GD            |
| TB2          | 40,00                      | 54,00            | 7,50          | GD            |
| SB2          | 40,00                      | 54,00            | 8,00          | GD            |
| TBR          | 40,00                      | 54,00            | 8,00          | GD            |
| TC4          | 40,00                      | 54,00            | 10,00         |               |
| TCSF         | 40,00                      | 54,00            | 10,00         |               |
| KC           | 40,00                      | 55,00            | 5,00          |               |
| AOY          | 40,00                      | 55,00            | 6,00          | GR            |
| HTCR         | 40,00                      | 55,00            | 6,00          |               |
| KB2          | 40,00                      | 55,00            | 6,50          | ND            |
| SCY          | 40,00                      | 55,00            | 6,5/9         |               |
| TB2          | 40,00                      | 55,00            | 6,50          | GD            |
| DC           | 40,00                      | 55,00            | 7,00          |               |
| HTCKR        | 40,00                      | 55,00            | 7,00          | GR            |
| HTCWL        | 40,00                      | 55,00            | 7,00          |               |
| HTCWR        | 40,00                      | 55,00            | 7,00          |               |
| HSBRR        | 40,00                      | 55,00            | 7,50          | ND            |
| HTB2         | 40,00                      | 55,00            | 8,00          | ND            |
| HTBC42       | 40,00                      | 55,00            | 8,00          | NDGR5         |
| HTCL         | 40,00                      | 55,00            | 8,00          |               |
| HTCR         | 40,00                      | 55,00            | 8,00          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| KB2          | 40,00                      | 55,00            | 8,00          | GD            |
| TB2          | 40,00                      | 55,00            | 8,00          | P0            |
| TCJ          | 40,00                      | 55,00            | 8/10,5        | GRLF          |
| KB45         | 40,00                      | 55/66            | 8,30          | P0            |
| HTCR         | 40,00                      | 55,00            | 9,00          |               |
| SA2          | 40,00                      | 55,00            | 9,00          | GD            |
| TB2          | 40,00                      | 55,00            | 9,00          | GD            |
| DCYJ         | 40,00                      | 55,00            | 10,00         |               |
| HTBC         | 40,00                      | 55,00            | 10,00         | ND            |
| HTCWR        | 40,00                      | 55,00            | 10,00         |               |
| HTA5         | 40,00                      | 55/62            | 13,00         | P0            |
| HTA5         | 40,00                      | 55/62            | 13,00         | POGR5         |
| KBC4         | 40,00                      | 55,50            | 9,00          | ND            |
| SA2          | 40,00                      | 55,65            | 6,40          | P2            |
| SCY          | 40,00                      | 56,00            | 2,2/6,2       |               |
| HTBR         | 40,00                      | 56,00            | 6,50          | GD            |
| HTCR         | 40,00                      | 56,00            | 6,50          |               |
| HSB2R        | 40,00                      | 56,00            | 7,00          | ND            |
| HSCR         | 40,00                      | 56,00            | 7,00          |               |
| HTBCWR       | 40,00                      | 56,00            | 7,00          | ND            |
| HTCR         | 40,00                      | 56,00            | 7,00          |               |
| HTCWR        | 40,00                      | 56,00            | 7,00          |               |
| TB2          | 40,00                      | 56,00            | 7,00          | GD            |
| HTBCY        | 40,00                      | 56,00            | 8/12,5        | ND            |
| HTC7I        | 40,00                      | 56,00            | 8/11,5        |               |
| HTC7L        | 40,00                      | 56,00            | 8/11,5        |               |
| HTC7R        | 40,00                      | 56,00            | 8/9,5         |               |
| HTC8I        | 40,00                      | 56,00            | 8/11,5        |               |
| HTCR         | 40,00                      | 56,00            | 8,00          |               |
| TB2          | 40,00                      | 56,00            | 8,00          | GD            |
| TC7          | 40,00                      | 56,00            | 8/13          |               |
| HTA5Y        | 40,00                      | 56/63            | 9/17          | P5            |
| HTA5Y        | 40,00                      | 56/63            | 9/17          | P5GR5         |
| HTC9I        | 40,00                      | 56,00            | 9/12,5        |               |
| TC7I         | 40,00                      | 56,00            | 9/15,5        |               |
| HTBCWL       | 40,00                      | 56,00            | 10,00         | ND            |
| TB2          | 40,00                      | 56,00            | 10,00         | GD            |
| TCOY         | 40,00                      | 56/65            | 18,50         |               |
| TCOY         | 40,00                      | 56/65            | 20,00         |               |
| TBR          | 40,00                      | 57,00            | 8,00          | ND            |
| SAFE         | 40,00                      | 57,00            | 13,00         | GD            |
| SB2          | 40,00                      | 57,15            | 10,00         | ND            |
| TB2          | 40,00                      | 57,15            | 10,00         | ND            |
| 9RB          | 40,00                      | 58,00            | 4,5/6,5       |               |
| 9RB          | 40,00                      | 58,00            | 4,5/6,5       |               |
| OVY          | 40,00                      | 58,00            | 6,00          |               |
| TCY          | 40,00                      | 58,00            | 6/6,4         |               |
| TCY          | 40,00                      | 58,00            | 6/8           | SS            |
| TC7          | 40,00                      | 58,00            | 7/12          |               |
| HTCSA        | 40,00                      | 58/65            | 8/9,5         | ND            |
| HTCSI        | 40,00                      | 58/65            | 8/9,5         | ND            |
| HTC7R        | 40,00                      | 58,00            | 8/11,5        |               |
| HTCR         | 40,00                      | 58,00            | 8,00          |               |
| OSCJ         | 40,00                      | 58,00            | 8,00          | SS            |
| HTC7L        | 40,00                      | 58,00            | 9/14          |               |
| SBY          | 40,00                      | 58,00            | 9/13          | P0            |
| TB5I         | 40,00                      | 58/64            | 9,00          | P0            |
| TC42WI       | 40,00                      | 58,00            | 9/10          |               |
| TC7          | 40,00                      | 58,00            | 9/13,5        |               |
| HTC7I        | 40,00                      | 58,00            | 9,5/15        |               |
| HSCYR        | 40,00                      | 58,00            | 10/14         |               |
| HTCL         | 40,00                      | 58,00            | 10,00         |               |
| HTCR         | 40,00                      | 58,00            | 10,00         |               |
| HTCW7I       | 40,00                      | 58,00            | 10/17         | GR            |
| HTCWJ        | 40,00                      | 58,00            | 10,00         |               |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br><i>Notes</i> |
|--------------|-----------------------------------|----------------------------|-------------------------|----------------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |                      |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |                      |
| HTCWL        | 40,00                             | 58,00                      | 10,00                   | SS                   |
| TCWI         | 40,00                             | 58,00                      | 10,00                   |                      |
| HTC42L       | 40,00                             | 58,00                      | 11,00                   | SS                   |
| HTCL         | 40,00                             | 58,00                      | 11,00                   |                      |
| HTCAY        | 40,00                             | 58,00                      | 11,30                   |                      |
| TC5W         | 40,00                             | 58/70,5                    | 12,00                   |                      |
| HTBCWY       | 40,00                             | 58,00                      | 12,50                   |                      |
| DCY          | 40,00                             | 58,00                      | 13,00                   |                      |
| TC7Y         | 40,00                             | 59,00                      | 11/16,5                 |                      |
| HSCR         | 40,00                             | 60,00                      | 5,50                    | SS                   |
| HTC7YL       | 40,00                             | 60,00                      | 8/11,5                  |                      |
| TB2I         | 40,00                             | 60,00                      | 8,00                    | GD                   |
| DC           | 40,00                             | 60,00                      | 10,00                   |                      |
| HSCR         | 40,00                             | 60,00                      | 10,00                   |                      |
| HTA42        | 40,00                             | 60,00                      | 10/16                   | GD                   |
| TB2          | 40,00                             | 60,00                      | 10,00                   | GD                   |
| TC42WI       | 40,00                             | 60,00                      | 10/11,5                 |                      |
| TCW          | 40,00                             | 60,00                      | 10,00                   |                      |
| TB2          | 40,00                             | 60,00                      | 12,00                   | GD                   |
| KCY          | 40,00                             | 60,33                      | 10,20                   | ND                   |
| HTBC42       | 40,00                             | 61,20                      | 13,70                   | ND                   |
| SL12         | 40,00                             | 61,50                      | 28,50                   | ND                   |
| SC2          | 40,00                             | 62,00                      | 6,00                    | SS                   |
| SC2J         | 40,00                             | 62,00                      | 6,00                    | SS                   |
| KC           | 40,00                             | 62,00                      | 6,50                    |                      |
| VCY          | 40,00                             | 62,00                      | 6,50                    |                      |
| HSBCR        | 40,00                             | 62,00                      | 7,5/8,5                 | SSNDRD               |
| HTC7R        | 40,00                             | 62,00                      | 8/11,5                  |                      |
| TC42         | 40,00                             | 62,00                      | 8,00                    | SS                   |
| TCW5Y        | 40,00                             | 62/78                      | 8/14,8                  | SS                   |
| TCYJ         | 40,00                             | 62,00                      | 8,50                    | SS                   |
| TB2          | 40,00                             | 62,00                      | 9,00                    | GD                   |
| HTCWSA       | 40,00                             | 62/67                      | 9,9/13,6                |                      |
| HTCW5L       | 40,00                             | 62/67                      | 9,90                    | ND                   |
| DC           | 40,00                             | 62,00                      | 10,00                   |                      |
| DCYJ         | 40,00                             | 62/64                      | 10/12                   |                      |
| HSB2L        | 40,00                             | 62,00                      | 10,00                   | ND                   |
| HTBCL        | 40,00                             | 62,00                      | 10/12                   | ND                   |
| HTCR         | 40,00                             | 62,00                      | 10,00                   |                      |
| TB2          | 40,00                             | 62,00                      | 10,00                   | GD                   |
| TC5Y         | 40,00                             | 62/78                      | 10,2/15,5               | SS                   |
| HTCL         | 40,00                             | 62,00                      | 11,00                   |                      |
| TB2          | 40,00                             | 62,00                      | 11,00                   | GD                   |
| DB4X         | 40,00                             | 62,00                      | 12,00                   | SSND                 |
| HTCL         | 40,00                             | 62,00                      | 12,00                   |                      |
| TB2          | 40,00                             | 62,00                      | 12,00                   | GD                   |
| TB4          | 40,00                             | 62,00                      | 12,00                   | GD                   |
| TC6Y         | 40,00                             | 62,00                      | 12,00                   |                      |
| Y            | 40,00                             | 62,00                      | 12,30                   |                      |
| TB2          | 40,00                             | 62,00                      | 13,00                   | ND                   |
| TB2Y         | 40,00                             | 62,00                      | 13,00                   | ND                   |
| SL3          | 40,00                             | 62,00                      | 20,00                   | GD                   |
| HDB5J        | 40,00                             | 62,2/67                    | 13,00                   | SSND                 |
| HDB5R        | 40,00                             | 62,2/67                    | 14,55                   | SSND                 |
| HDB5R        | 40,00                             | 62,2/67                    | 14,55                   | SSND                 |
| HTC7R        | 40,00                             | 63,00                      | 8/11,5                  |                      |
| HTCAI        | 40,00                             | 63,00                      | 8,50                    | SSND                 |
| HTCI         | 40,00                             | 63,00                      | 8,50                    | SS                   |
| TB2          | 40,00                             | 63,50                      | 10,00                   | GD                   |
| SL9          | 40,00                             | 63,50                      | 14,00                   | GDGR                 |
| OVY          | 40,00                             | 64,00                      | 7/9                     | GR                   |
| HTC7R        | 40,00                             | 64,00                      | 9/15                    |                      |
| TBCY         | 40,00                             | 64/73                      | 10/16                   | ND                   |
| TB5Y         | 40,00                             | 64/75,5                    | 12,00                   | ND                   |
| TB7          | 40,00                             | 64,00                      | 12/17,5                 | GD                   |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TBY          | 40,00                      | 64,00            | 16,00         | GD            |
| SL5          | 40,00                      | 64,00            | 18,00         |               |
| TB2I         | 40,00                      | 65,00            | 8,00          | GD            |
| SB2          | 40,00                      | 65,00            | 9,00          | ND            |
| SA2          | 40,00                      | 65,00            | 10,00         | GD            |
| HTC7R        | 40,00                      | 65,00            | 11,5/18,1     |               |
| HTCR         | 40,00                      | 65,00            | 12,00         |               |
| TB2          | 40,00                      | 65,00            | 12,00         | GD            |
| VCY          | 40,00                      | 65,50            | 7,00          |               |
| SB2          | 40,00                      | 66,00            | 6,00          | P5            |
| TC42WY       | 40,00                      | 66,00            | 10/11,5       | SS            |
| SB2          | 40,00                      | 68,00            | 8,00          | P2            |
| HTC7R        | 40,00                      | 68,00            | 9/12,5        |               |
| TB2          | 40,00                      | 68,00            | 10,00         | GD            |
| TBR          | 40,00                      | 68,00            | 10,00         | GD            |
| TB2          | 40,00                      | 68,00            | 11,00         | GD            |
| KBCY         | 40,00                      | 69,00            | 14,00         | ND            |
| TB42         | 40,00                      | 70,00            | 7,00          | P2GR          |
| TBC9Y        | 40,00                      | 70,00            | 8/16          | ND            |
| TC42         | 40,00                      | 70,00            | 8/10          |               |
| TA2          | 40,00                      | 70,00            | 10,00         | GD            |
| HTC7R        | 40,00                      | 70,00            | 12/16         |               |
| KC5A         | 40,00                      | 70/80            | 12/14         |               |
| SA2          | 40,00                      | 70,00            | 12,00         | GD            |
| VCY          | 40,00                      | 70/80            | 12/14         |               |
| NCY          | 40,00                      | 72,00            | 8/9           |               |
| SBR          | 40,00                      | 72,00            | 10,00         | GD            |
| TC7Y         | 40,00                      | 72,00            | 10/16,5       |               |
| TCJ          | 40,00                      | 72,00            | 10,00         | SS            |
| TC9Y         | 40,00                      | 72,00            | 11/18,5       |               |
| HTB2YR       | 40,00                      | 72,00            | 11,50         | ND            |
| TB2          | 40,00                      | 72,00            | 12,00         | GD            |
| TC5Y         | 40,00                      | 72/85            | 12/19         | SS            |
| HTCR         | 40,00                      | 72,00            | 16,00         |               |
| HTB57R       | 40,00                      | 74/86,5          | 9,5/18,8      | ND            |
| HTB7L        | 40,00                      | 74,00            | 9,5/15        | GD            |
| HTB5YR       | 40,00                      | 74/86            | 10/18         | P2            |
| TB357        | 40,00                      | 74/85            | 10/19         | P2            |
| TB7Y         | 40,00                      | 74,00            | 10/19         | GD            |
| SB2          | 40,00                      | 75,00            | 8,00          | GD            |
| HTC          | 40,00                      | 75,00            | 10,00         | SS            |
| TBC57        | 40,00                      | 75/89            | 11/15,5       | ND            |
| HTB57R       | 40,00                      | 75/81            | 12/21         | ND            |
| HTC7YR       | 40,00                      | 75,00            | 12/17,5       |               |
| HTC9YR       | 40,00                      | 75,00            | 12/17,5       |               |
| HTCR         | 40,00                      | 75,00            | 12,00         |               |
| TCY          | 40,00                      | 75,00            | 12,00         |               |
| HTCWL        | 40,00                      | 76,00            | 7,00          |               |
| HTC8I        | 40,00                      | 76,00            | 9/12,5        |               |
| HTC8L        | 40,00                      | 76,00            | 9/12,5        |               |
| HTC8R        | 40,00                      | 76,00            | 9/12,5        |               |
| DCYJ         | 40,00                      | 79,00            | 2,5/9         |               |
| TC5JY        | 40,00                      | 80/84            | 5,5/7         |               |
| TB2          | 40,00                      | 80,00            | 10,00         | GD            |
| TB2          | 40,00                      | 85,00            | 11,00         | GD            |
| TB2          | 40,00                      | 86,00            | 10,00         | ND            |
| SB2          | 40,00                      | 90,00            | 8,00          | P5            |
| PS26         | 40,00                      | 117,00           | 16,5/24,2     |               |
| SA2          | 40,08                      | 61,16            | 12,70         | PO            |
| TB5Y         | 40,10                      | 72/82            | 9,40          | SSPOHGR       |
| TCY          | 40,20                      | 72,00            | 10/13,5       | SS            |
| SB2          | 40,46                      | 63,55            | 6,40          | PO            |
| SA2          | 40,48                      | 61,91            | 11,90         | PO            |
| SAU          | 40,48                      | 63,50            | 6,40          |               |
| HTB45I       | 40,48                      | 72,23            | 12,70         | PO            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTBCR        | 40,50                      | 52,50            | 6,00          | NDGR          |
| HTCR         | 40,50                      | 52,50            | 6,00          |               |
| HTCR         | 40,50                      | 54,50            | 7,00          |               |
| KB35         | 40,50                      | 62,1/68          | 9,5/12,7      | ND            |
| HTB5YL       | 40,59                      | 62,89/70         | 10,7/20       | P0            |
| HTASyl       | 40,60                      | 62,89/69,7       | 8,9/37,5      | P0            |
| HTASyl       | 40,60                      | 62,89/69,7       | 8,9/37,5      | P0            |
| HTBYL        | 40,60                      | 62,89            | 8,90          | P0            |
| BE           | 40,64                      | 76,96            | 9,80          | ND            |
| TA5I         | 40,77                      | 65,02/71         | 17,60         | P5            |
| TA5I         | 40,77                      | 71/78            | 9,2/12,7      | P0            |
| SB5          | 40,88                      | 61,91/68,26      | 8,30          | P2            |
| HSB5R        | 40,88                      | 61,91/68,3       | 8,5/10        | P0            |
| SC5Y         | 41,00                      | 47/53            | 16,50         |               |
| TB           | 41,00                      | 49,30            | 6,20          | GD            |
| KC           | 41,00                      | 51,00            | 5,00          |               |
| TA2          | 41,00                      | 53,00            | 7,00          | GD            |
| TBR          | 41,00                      | 53,00            | 7,00          | GD            |
| DC4          | 41,00                      | 53,00            | 8/10,5        | SS            |
| TB           | 41,00                      | 53,00            | 8,00          | GD            |
| TC4L         | 41,00                      | 53,00            | 8/9,5         |               |
| TCL          | 41,00                      | 53,00            | 8/9,5         |               |
| TC4          | 41,00                      | 53,00            | 10,00         |               |
| TC4          | 41,00                      | 53,00            | 10,50         |               |
| XICY         | 41,00                      | 53,2/58          | 6/15          |               |
| XICY8        | 41,00                      | 53,5/59          | 4,6/12        | SS            |
| XICY1        | 41,00                      | 53,50            | 5,3/9,5       |               |
| SCY          | 41,00                      | 54,00            | 7,00          |               |
| SCT          | 41,00                      | 54,00            | 8,00          |               |
| SCY          | 41,00                      | 54,00            | 8,00          |               |
| DC4          | 41,00                      | 54,00            | 11,00         | SS            |
| TC4          | 41,00                      | 54,00            | 11,00         |               |
| TA2I         | 41,00                      | 54,00            | 12,00         | GD            |
| XICY         | 41,00                      | 54,3/58,5        | 5,6/14,5      |               |
| XICY         | 41,00                      | 54,3/58,5        | 5,6/14,5      |               |
| XICY9        | 41,00                      | 54,4/59,5        | 6/12,5        | SS            |
| TB           | 41,00                      | 55,00            | 7,00          | GD            |
| TB7Y         | 41,00                      | 55,00            | 7/12          | GD            |
| TB           | 41,00                      | 55,00            | 9,00          | GD            |
| SB2Y         | 41,00                      | 56,00            | 7,00          | GD            |
| TBR          | 41,00                      | 56,00            | 7,00          | GD            |
| HTCR         | 41,00                      | 56,00            | 8,00          | SS            |
| HTCL         | 41,00                      | 58,00            | 9,50          |               |
| HTC7R        | 41,00                      | 59,00            | 10/16,5       | SS            |
| KB2Y         | 41,00                      | 59,00            | 10,00         | NDRD          |
| HTASyl       | 41,00                      | 61,00            | 8/13          | P2            |
| HTB5I        | 41,00                      | 61,00            | 8,00          | P2            |
| HTC7L        | 41,00                      | 61,00            | 8/13          |               |
| HTC9         | 41,00                      | 61,00            | 9/13,5        |               |
| TB2          | 41,00                      | 61,00            | 9,00          | GD            |
| KBCWY        | 41,00                      | 61,00            | 13/16         | ND            |
| HSBCR        | 41,00                      | 61,85            | 7,6/9,5       | ND            |
| HTCR         | 41,00                      | 62,00            | 9,00          |               |
| HTBC57       | 41,00                      | 62,00            | 10/14         | ND            |
| HTBC9        | 41,00                      | 62,00            | 10,5/15       | NDRD          |
| HTC7L        | 41,00                      | 63,00            | 9/12,5        |               |
| SB2          | 41,00                      | 65,00            | 9,00          | GD            |
| TB2          | 41,00                      | 65,00            | 10,00         | GD            |
| HTBCWY       | 41,00                      | 65,25            | 11,00         | ND            |
| TC7Y         | 41,00                      | 67,00            | 10,5/18       | SS            |
| TC7          | 41,00                      | 69,00            | 8,5/16        | SS            |
| HTB7L        | 41,00                      | 74,00            | 9/14,5        | GD            |
| HTC7I        | 41,00                      | 74,00            | 11/17,5       |               |
| TC7Y         | 41,00                      | 76,00            | 10,5/18       | SS            |
| TB2          | 41,08                      | 50,75            | 7,60          | NDGR          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TB2I         | 41,10                      | 65,41            | 11,90         | P0            |
| HTB2         | 41,10                      | 65,41            | 12,70         | P0            |
| TB5I         | 41,10                      | 72,16/81         | 12,70         | P0            |
| SBR          | 41,12                      | 62,10            | 4,90          | ND            |
| TB2          | 41,12                      | 64,31            | 6,60          | ND            |
| TB2          | 41,12                      | 64,31            | 6,60          | ND            |
| TBA          | 41,12                      | 64,31            | 6,6/7,9       | ND            |
| VB2Y         | 41,12                      | 64,31            | 6,60          | ND            |
| VBY          | 41,12                      | 64,31            | 7,5/8,8       | ND            |
| SB           | 41,15                      | 50,72            | 6,40          | NDRD          |
| SB           | 41,15                      | 50,80            | 6,40          | ND            |
| VBX          | 41,28                      | 47,63            | 3,20          | ND            |
| VBX          | 41,28                      | 47,63            | 3,20          | ND            |
| TB           | 41,28                      | 49,21            | 6,40          | GD            |
| TB           | 41,28                      | 49,23            | 6,40          | GD            |
| SBSY         | 41,28                      | 49,28            | 19,05         | ND            |
| VBSY         | 41,28                      | 49,28            | 19,05         | ND            |
| VBSY         | 41,28                      | 49,28            | 19,05         | ND            |
| VBY          | 41,28                      | 49,50            | 4/6,2         | ND            |
| TB           | 41,28                      | 50,80            | 3,60          | ND            |
| SB           | 41,28                      | 50,80            | 6,40          | GD            |
| VAY          | 41,28                      | 50,80            | 6,40          | ND            |
| TB           | 41,28                      | 53,75            | 7,90          | P2            |
| VCY          | 41,28                      | 53,98            | 3,20          |               |
| SB2          | 41,28                      | 53,98            | 6,40          | P0            |
| VB2          | 41,28                      | 53,98            | 6,40          | GD            |
| SB2          | 41,28                      | 53,98            | 7,20          | SSNDRD        |
| SB2          | 41,28                      | 54,86            | 7,00          | P5            |
| SB2          | 41,28                      | 56,06            | 7,00          | P2            |
| SB2          | 41,28                      | 56,06            | 7,00          | P2            |
| TB2          | 41,28                      | 57,15            | 7,90          | P2            |
| SCWJ         | 41,28                      | 57,55            | 6,40          | SS            |
| SB2          | 41,28                      | 57,96            | 7,90          | P0            |
| KBRY         | 41,28                      | 59,10            | 10,30         | ND            |
| VB18         | 41,28                      | 59,11            | 11,10         | GD            |
| TBY          | 41,28                      | 59,11            | 15,00         | P5            |
| VAX          | 41,28                      | 59,13            | 9,90          | ND            |
| VAFE         | 41,28                      | 59,13            | 10,31         | ND            |
| VB18         | 41,28                      | 59,13            | 11,10         | ND            |
| HTB2         | 41,28                      | 59,15            | 15,00         | P2            |
| HSBR         | 41,28                      | 59,53            | 18,30         | ND            |
| TB2          | 41,28                      | 60,30            | 6,40          | P2            |
| SB2          | 41,28                      | 60,30            | 7,90          | ND            |
| TB2          | 41,28                      | 60,30            | 7,90          | P0            |
| SA2          | 41,28                      | 60,30            | 12,70         | ND            |
| TB2I         | 41,28                      | 60,33            | 9,50          | GD            |
| TBRV         | 41,28                      | 60,33            | 9,50          | GD            |
| SA2          | 41,28                      | 60,33            | 11,10         | P2            |
| TB2          | 41,28                      | 61,90            | 7,90          | SSGD          |
| SB2          | 41,28                      | 61,91            | 7,90          | P5RD          |
| SB2          | 41,28                      | 61,91            | 9,50          | ND            |
| TB2          | 41,28                      | 61,91            | 9,50          | GD            |
| TA2          | 41,28                      | 61,91            | 11,90         | GD            |
| SB2          | 41,28                      | 61,91            | 12,70         | ND            |
| TB2          | 41,28                      | 62,00            | 9,50          | P0            |
| DC           | 41,28                      | 62,00            | 12,00         |               |
| DC5          | 41,28                      | 62/69,85         | 12,70         | SS            |
| SB           | 41,28                      | 63,50            | 6,40          | SSSGD         |
| SBA          | 41,28                      | 63,50            | 6,40          | SSSGD         |
| TB2          | 41,28                      | 63,50            | 6,40          | ND            |
| HTCR         | 41,28                      | 63,50            | 12,70         |               |
| TCI          | 41,28                      | 63,50            | 12,70         |               |
| TB2          | 41,28                      | 63,55            | 7,90          | P2            |
| TB2          | 41,28                      | 63,55            | 9,50          | P2            |
| TB2          | 41,28                      | 65,07            | 7,90          | P2            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| VB2I         | 41,28                      | 65,08            | 6,40          | ND            |
| VB18         | 41,28                      | 65,08            | 11,10         | NDRD          |
| VB2          | 41,28                      | 65,09            | 9,50          | ND            |
| TC95         | 41,28                      | 65,20            | 9,5/13,2      |               |
| SA2          | 41,28                      | 65,40            | 12,70         | ND            |
| TB5I         | 41,28                      | 65,4/72          | 12,70         | ND            |
| TB5I         | 41,28                      | 65,4/72          | 12,70         | ND            |
| OU           | 41,28                      | 65,46            | 9,78          | ND            |
| TB2          | 41,28                      | 66,68            | 6,35          | PD            |
| TB2          | 41,28                      | 66,68            | 7,90          | GD            |
| VB5Y         | 41,28                      | 67/77,04         | 6,40          | ND            |
| VB5Y         | 41,28                      | 67/77,04         | 6,40          | ND            |
| DC5          | 41,28                      | 67,97/76         | 12,70         | SS            |
| VB2I         | 41,28                      | 69,85            | 6,40          | ND            |
| SA2          | 41,28                      | 69,85            | 7,90          | P2            |
| TB2          | 41,28                      | 69,85            | 7,90          | PO            |
| TB2          | 41,28                      | 69,85            | 9,50          | GD            |
| SA2          | 41,28                      | 76,20            | 7,90          | GD            |
| TB2I         | 41,28                      | 76,20            | 9,50          | GD            |
| SA2          | 41,28                      | 76,20            | 12,70         | PO            |
| VCS          | 41,30                      | 54,00            | 2/3,5         |               |
| TC4          | 41,30                      | 54,00            | 12,00         |               |
| VP           | 41,50                      | 63,00            | 30,00         |               |
| VAFE         | 41,53                      | 62,00            | 11,89         | ND            |
| TBY          | 41,67                      | 59,08            | 15,00         | SSPOGR        |
| HTCYI        | 41,67                      | 66,68            | 9,90          |               |
| TCL          | 41,70                      | 55,00            | 10/10,5       |               |
| TB2          | 41,80                      | 67,46            | 10,30         | P5            |
| HSB2R        | 41,91                      | 57,96/59,33      | 19,05         | ND            |
| TB5I         | 41,91                      | 61,22/68         | 9,20          | PO            |
| HTA5Y        | 41,96                      | 63,96/71         | 10/12,5       | PO            |
| TA5Y         | 41,96                      | 63,96/71         | 10,00         | PO            |
| TA5Y         | 41,96                      | 63,96/71,44      | 10/15,08      | SSND          |
| TB5I         | 41,96                      | 63,96/71         | 10,00         | PO            |
| HTBC45       | 41,96                      | 63,96/71,44      | 11,90         | SSND          |
| TB5I         | 41,96                      | 64/71,5          | 10,00         | PO            |
| TBRY         | 42,00                      | 52,00            | 6,5/8         | GD            |
| OSC          | 42,00                      | 52,50            | 7,00          |               |
| HTCWR        | 42,00                      | 53,00            | 7,00          | SS            |
| TBR          | 42,00                      | 53,00            | 7/7,3         | GD            |
| TB           | 42,00                      | 53,00            | 8,00          | GD            |
| HTCWR        | 42,00                      | 54,00            | 6,00          |               |
| SBR          | 42,00                      | 54,00            | 7,50          | ND            |
| TB           | 42,00                      | 54,00            | 7,50          | GD            |
| HTCR         | 42,00                      | 54,50            | 6,00          |               |
| TB2          | 42,00                      | 55,00            | 6,00          | ND            |
| HKBCJ        | 42,00                      | 55,00            | 7,00          | ND            |
| HKCR         | 42,00                      | 55,00            | 7,00          |               |
| HTCI         | 42,00                      | 55,00            | 7,00          |               |
| HTCWR        | 42,00                      | 55,00            | 7,00          |               |
| KBCWRJ       | 42,00                      | 55,00            | 7,00          | ND            |
| KC           | 42,00                      | 55,00            | 7,00          |               |
| SA2          | 42,00                      | 55,00            | 7,00          | GD            |
| TB           | 42,00                      | 55,00            | 7,00          | GD            |
| TB2          | 42,00                      | 55,00            | 7,00          | GD            |
| TB3          | 42,00                      | 55,00            | 7,00          | GD            |
| TBR          | 42,00                      | 55,00            | 7,00          | GD            |
| HSBRR        | 42,00                      | 55,00            | 8,00          | ND            |
| HTCW         | 42,00                      | 55,00            | 8,00          | SS            |
| TB2          | 42,00                      | 55,00            | 8,00          | GD            |
| TC4          | 42,00                      | 55,00            | 8,5/10,5      |               |
| HTCWR        | 42,00                      | 55,00            | 9,00          |               |
| SAY          | 42,00                      | 55,00            | 9,00          | GD            |
| SB2          | 42,00                      | 55,00            | 9,00          | SSND          |
| SBR          | 42,00                      | 55,00            | 9,00          | GD            |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SBY          | 42,00                      | 55,00            | 9,00          | GD            |
| TB2          | 42,00                      | 55,00            | 9,00          | GD            |
| HTBCL        | 42,00                      | 55,00            | 10,00         | ND            |
| HSB5R        | 42,00                      | 56/63            | 7,00          | ND            |
| HSCWR        | 42,00                      | 56,00            | 7,00          |               |
| HTB2R        | 42,00                      | 56,00            | 7,00          | P0            |
| HTBCWR       | 42,00                      | 56,00            | 7,00          | NDGR          |
| HTCI         | 42,00                      | 56,00            | 7,00          |               |
| HTCL         | 42,00                      | 56,00            | 7,00          |               |
| HTCWR        | 42,00                      | 56,00            | 7,00          | GR            |
| HTCWR        | 42,00                      | 56,00            | 7,00          |               |
| KC           | 42,00                      | 56,00            | 7,00          | GRLF          |
| TB2          | 42,00                      | 56,00            | 7,00          | GD            |
| TB2          | 42,00                      | 56,00            | 7/8,5         | ND            |
| OSC          | 42,00                      | 56,00            | 8,00          | SS            |
| TB           | 42,00                      | 56,00            | 9,00          | GD            |
| SCY          | 42,00                      | 56,00            | 14,00         | SS            |
| KC           | 42,00                      | 56,20            | 7,00          |               |
| TB18         | 42,00                      | 56,30            | 8,00          | GD            |
| TB2          | 42,00                      | 57,15            | 10,00         | GD            |
| KBR          | 42,00                      | 58,00            | 7,00          | GD            |
| SB           | 42,00                      | 58,00            | 7,00          | GD            |
| HTCR         | 42,00                      | 58,00            | 8,00          |               |
| TB2          | 42,00                      | 58,00            | 8,00          | GD            |
| TCWI         | 42,00                      | 58,00            | 8,00          |               |
| HTCL         | 42,00                      | 58,00            | 9,50          |               |
| KCA          | 42,00                      | 58,00            | 10,00         |               |
| HTCW7        | 42,00                      | 58,00            | 11/18         |               |
| DC           | 42,00                      | 58,00            | 12,00         | SS            |
| DCA          | 42,00                      | 58,00            | 12/13         | SS            |
| HTASYL       | 42,00                      | 58/67            | 12/23         |               |
| HTBSYL       | 42,00                      | 58/67            | 12/20         |               |
| SCYJ         | 42,00                      | 59,00            | 3,00          |               |
| TC7          | 42,00                      | 59,00            | 6/10,5        |               |
| HTCR         | 42,00                      | 59,00            | 7,5/8,5       |               |
| HSBCR        | 42,00                      | 59,00            | 7,70          | ND            |
| HSCR         | 42,00                      | 59,00            | 7,70          |               |
| HTCR         | 42,00                      | 60,00            | 6,50          |               |
| HTCR         | 42,00                      | 60,00            | 7,00          |               |
| HTBRR        | 42,00                      | 60,00            | 8,50          | GDGR          |
| HTC3R        | 42,00                      | 60,00            | 9,00          |               |
| HTCR         | 42,00                      | 60,00            | 9,00          |               |
| SB2          | 42,00                      | 60,00            | 9,00          | ND            |
| TB2          | 42,00                      | 60,00            | 9,00          | GD            |
| TC3          | 42,00                      | 60,00            | 9,00          |               |
| SBR          | 42,00                      | 60,00            | 12,00         | GD            |
| KC7          | 42,00                      | 61,50            | 7,5/11        |               |
| SB2          | 42,00                      | 62,00            | 6,50          | P9            |
| HTBCWR       | 42,00                      | 62,00            | 7,00          | NDGR          |
| HTCWR        | 42,00                      | 62,00            | 7,00          |               |
| KC7          | 42,00                      | 62,00            | 7/11          |               |
| TB2          | 42,00                      | 62,00            | 7,00          | GD            |
| HSC          | 42,00                      | 62,00            | 8,00          |               |
| HTBCWL       | 42,00                      | 62,00            | 8,00          | ND            |
| HTCL         | 42,00                      | 62,00            | 8,00          |               |
| HTCR         | 42,00                      | 62,00            | 8,00          |               |
| SB2          | 42,00                      | 62,00            | 8,00          | ND            |
| TC42         | 42,00                      | 62,00            | 8,00          |               |
| HTCR         | 42,00                      | 62,00            | 10,00         |               |
| DC           | 42,00                      | 62,00            | 11,00         | SS            |
| DC5          | 42,00                      | 62/70            | 11,00         |               |
| DCW          | 42,00                      | 62,00            | 12,00         | SS            |
| TA2          | 42,00                      | 62,00            | 12,00         | GD            |
| HTC7I        | 42,00                      | 63,00            | 9/12,3        |               |
| TA2          | 42,00                      | 63,50            | 13,00         | P9            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| KC           | 42,00                      | 64,00            | 6,00          |               |
| TB2          | 42,00                      | 64,00            | 10,00         | GD            |
| DC           | 42,00                      | 64,00            | 12,00         |               |
| TCSF         | 42,00                      | 65,00            | 7,00          |               |
| HTB95R       | 42,00                      | 65,00            | 9,5/13,5      | ND            |
| HTBYL        | 42,00                      | 65,00            | 9,5/13,5      | ND            |
| HTCR         | 42,00                      | 65,00            | 10,00         |               |
| TCWI         | 42,00                      | 65,00            | 10,00         |               |
| DC           | 42,00                      | 65,00            | 11,00         |               |
| SB2E         | 42,00                      | 65,00            | 11,00         | GD            |
| TC2WY        | 42,00                      | 65,00            | 11,60         |               |
| HTBCWR       | 42,00                      | 65,00            | 12,00         | ND            |
| HTBRR        | 42,00                      | 65,00            | 12,00         | GD            |
| SB2          | 42,00                      | 65,00            | 12,00         | GD            |
| TA2          | 42,00                      | 65,00            | 12,00         | GD            |
| TB2          | 42,00                      | 65,00            | 12,00         | GD            |
| HTCWR        | 42,00                      | 66,00            | 6,00          |               |
| HTCWR        | 42,00                      | 66,00            | 8,00          |               |
| TC42         | 42,00                      | 66,00            | 10,00         |               |
| KC57K        | 42,00                      | 66/72            | 10,5/18       |               |
| SCY          | 42,00                      | 66,00            | 23,50         |               |
| HSB5R        | 42,00                      | 67/73            | 7,20          | SSPO          |
| TCSF         | 42,00                      | 67,00            | 10,00         |               |
| HTCR         | 42,00                      | 68,00            | 10,00         |               |
| HTB7I        | 42,00                      | 70,00            | 9/15          | GD            |
| TCI          | 42,00                      | 72,00            | 7,00          |               |
| TB2I         | 42,00                      | 72,00            | 8,00          | GD            |
| TCWI         | 42,00                      | 72,00            | 8,00          |               |
| HTAC7R       | 42,00                      | 72,00            | 10/16         | ND            |
| HTBCR        | 42,00                      | 72,00            | 10,00         | NDGR          |
| SB2          | 42,00                      | 72,00            | 10,00         | ND            |
| SBR          | 42,00                      | 72,00            | 10,00         | ND            |
| SCW          | 42,00                      | 72,00            | 10,00         |               |
| DCP          | 42,00                      | 72,00            | 12,00         | SS            |
| DCP          | 42,00                      | 72,00            | 12/16         |               |
| TB2          | 42,00                      | 72,00            | 12,00         | GD            |
| HTB2R        | 42,00                      | 72,50            | 12,00         | GD            |
| HTB57R       | 42,00                      | 72,5/79          | 13/21,5       | NDGR          |
| HTB57R       | 42,00                      | 72,50            | 13/21         | NDGR          |
| HTCR         | 42,00                      | 75,00            | 12,00         |               |
| HTB57R       | 42,00                      | 76/83            | 12/20         | ND            |
| TC37Y        | 42,00                      | 76,00            | 12/20         | SS            |
| TB2I         | 42,00                      | 78,00            | 8,00          | GD            |
| DC7Y         | 42,00                      | 90,00            | 9,5/13        | SS            |
| DC7          | 42,00                      | 90,00            | 12/21         |               |
| OKB          | 42,06                      | 48/60            | 5,40          |               |
| OKB          | 42,06                      | 48/64,52         | 5,40          |               |
| HTCR         | 42,06                      | 66,62            | 9,70          |               |
| SA2          | 42,06                      | 68,22            | 12,70         | PO            |
| SB2          | 42,06                      | 68,22            | 12,70         | ND            |
| TB2          | 42,06                      | 74,61            | 9,50          | PO            |
| HTA2R        | 42,07                      | 57,15            | 7,90          | SSSGD         |
| TB2          | 42,07                      | 66,68            | 9,50          | GD            |
| OV5Y         | 42,30                      | 68,80            | 7,00          |               |
| KB45         | 42,49                      | 54,92/63         | 7,20          | ND            |
| HTCR         | 42,50                      | 54,50            | 6,00          |               |
| KC           | 42,75                      | 62,00            | 4,00          | GR            |
| TC42         | 42,80                      | 55,00            | 10/11         |               |
| HSBR         | 42,80                      | 61,91            | 7,00          | PO            |
| HTBSAL       | 42,80                      | 63,5/72,5        | 11/31,75      | PO            |
| HTBSL        | 42,80                      | 63,5/72,5        | 11,00         | PO            |
| HTBSYL       | 42,80                      | 63,55/73,03      | 10/21,2       | P2            |
| SB2          | 42,82                      | 68,22            | 12,70         | ND            |
| TB6          | 42,85                      | 66,62            | 11,10         | PO            |
| TB2          | 42,85                      | 73,03            | 7,90          | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SB           | 42,86                      | 53,98            | 4,80          | GD            |
| HTCR         | 42,86                      | 54,61            | 6,00          | SS            |
| KBC7         | 42,86                      | 58,47            | 7,9/11,1      | ND            |
| VB2          | 42,86                      | 59,13            | 5,50          | GD            |
| TB2          | 42,86                      | 59,13            | 7,90          | PO            |
| TB2          | 42,86                      | 60,30            | 7,90          | PO            |
| VCF          | 42,86                      | 60,33            | 6,40          |               |
| SBR          | 42,86                      | 61,91            | 11,90         | ND            |
| SBR          | 42,86                      | 61,91            | 11,90         | GD            |
| TB2          | 42,86                      | 63,50            | 9,50          | GD            |
| TB95         | 42,86                      | 63,5/65,09       | 9,5/12,7      | ND            |
| HTBSAL       | 42,86                      | 63,5/72,22       | 11/38,5       | PO            |
| HTBSL        | 42,86                      | 63,5/72,22       | 11,00         | PO            |
| HTBSL        | 42,86                      | 63,5/71,43       | 15,08         | PO            |
| HTBSL        | 42,86                      | 63,5/71,43       | 15,10         | P7            |
| TB2          | 42,86                      | 63,55            | 7,90          | GD            |
| TB2          | 42,86                      | 63,55            | 7,90          | P2RD          |
| TB5          | 42,86                      | 63,55/70         | 12,70         | PO            |
| TB2          | 42,86                      | 65,05            | 12,70         | PO            |
| HTB95        | 42,86                      | 65,09            | 9,5/13,5      | ND            |
| VBR          | 42,86                      | 66,17            | 6,40          | ND            |
| VB2          | 42,86                      | 66,62            | 9,50          | GD            |
| SB2          | 42,86                      | 66,62            | 12,70         | GD            |
| SBR          | 42,86                      | 66,68            | 6,40          | ND            |
| HTB45I       | 42,86                      | 66,68/76,2       | 12,70         | ND            |
| HTBSR        | 42,86                      | 66,68/80         | 12,70         | PO            |
| HTBC57       | 42,86                      | 67,47/79         | 9,9/15        | ND            |
| OVY          | 42,86                      | 68,17            | 6,40          |               |
| TB2          | 42,86                      | 68,22            | 7,90          | ND            |
| OSC          | 42,86                      | 69,06            | 9,50          |               |
| TB2          | 42,86                      | 69,85            | 7,90          | GD            |
| TB2I         | 42,86                      | 69,85            | 9,50          | GD            |
| TB2          | 42,86                      | 73,03            | 9,50          | P2            |
| TA2          | 42,86                      | 73,03            | 11,90         | ND            |
| TB2I         | 42,86                      | 77,00            | 12,70         | PORD          |
| VCF          | 42,86                      | 81,00            | 4,75          |               |
| KBY          | 42,88                      | 59,13            | 6,4/12,7      | ND            |
| KBY          | 42,88                      | 59,13            | 12,70         | ND            |
| TB2          | 42,88                      | 61,90            | 8,00          | P2            |
| TBC57        | 42,97                      | 67,47/72,96      | 9,75/12,5     | SSNDGR        |
| TB           | 43,00                      | 50,00            | 8,00          | GD            |
| KB           | 43,00                      | 50,00            | 9,00          | GD            |
| VBY          | 43,00                      | 52,00            | 3,5/5,5       | ND            |
| TB           | 43,00                      | 52,00            | 6,50          | GD            |
| SB           | 43,00                      | 52,00            | 10,00         | GD            |
| XICY3        | 43,00                      | 53,4/57,2        | 6/11,8        | SS            |
| TA2          | 43,00                      | 54,00            | 6,00          | GD            |
| KB           | 43,00                      | 54,00            | 7,50          | GD            |
| TB           | 43,00                      | 54,00            | 7,50          | GD            |
| TC4          | 43,00                      | 54,00            | 9,5/10,5      |               |
| DC4          | 43,00                      | 54,00            | 11,00         | SSGR          |
| TC4          | 43,00                      | 54,00            | 11,00         |               |
| XICY         | 43,00                      | 54,3/58,3        | 5,6/14,5      |               |
| XICY1        | 43,00                      | 54,3/59          | 6/15,5        |               |
| XICY8        | 43,00                      | 54,3/59          | 6,5/13        | SS            |
| XICY9        | 43,00                      | 54,5/59          | 6/13          | SS            |
| KCY          | 43,00                      | 55,00            | 4,50          |               |
| TCY          | 43,00                      | 55,00            | 4,50          |               |
| HTCR         | 43,00                      | 55,00            | 6,00          |               |
| TB           | 43,00                      | 55,00            | 7,50          | GD            |
| TB           | 43,00                      | 55,00            | 7,50          | PO            |
| KC           | 43,00                      | 55,00            | 8,00          |               |
| TC4          | 43,00                      | 55,00            | 9,00          |               |
| DC4          | 43,00                      | 55,00            | 10,5/12       | SS            |
| TC4          | 43,00                      | 55,00            | 10,50         |               |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br><i>Notes</i> |
|--------------|-----------------------------------|----------------------------|-------------------------|----------------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |                      |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |                      |
| TC4          | 43,00                             | 55,10                      | 9,5/10,5                |                      |
| XICY1        | 43,00                             | 55,50                      | 5,3/9,5                 |                      |
| XICY3        | 43,00                             | 55,5/59,5                  | 7,5/14                  | SS                   |
| TBY          | 43,00                             | 56,00                      | 6/8,5                   | SSND                 |
| SB           | 43,00                             | 56,00                      | 7,00                    | ND                   |
| KB7          | 43,00                             | 58,00                      | 5/8,5                   | GD                   |
| HSBCR        | 43,00                             | 58,00                      | 7,00                    | SSND                 |
| HTCL         | 43,00                             | 58,00                      | 7,00                    |                      |
| KC4          | 43,00                             | 58,00                      | 7,00                    |                      |
| HTCL         | 43,00                             | 58,00                      | 8,00                    | SS                   |
| HTCR         | 43,00                             | 58,00                      | 8,00                    | SS                   |
| KC7          | 43,00                             | 58,00                      | 10/13                   | GR                   |
| TB2          | 43,00                             | 59,00                      | 7,00                    | GD                   |
| HKATW        | 43,00                             | 59,00                      | 9,00                    |                      |
| KBCW         | 43,00                             | 59,00                      | 10/11                   |                      |
| HTCR         | 43,00                             | 60,00                      | 7,00                    | SS                   |
| SB2          | 43,00                             | 60,00                      | 8,00                    | GD                   |
| HTCR         | 43,00                             | 60,00                      | 9,00                    |                      |
| HTCR         | 43,00                             | 62,00                      | 6,00                    |                      |
| HTBC         | 43,00                             | 62,00                      | 12,00                   | ND                   |
| TB2          | 43,00                             | 63,00                      | 7,00                    | GD                   |
| HTB2R        | 43,00                             | 63,00                      | 9,00                    | GD                   |
| HTA5Y        | 43,00                             | 63/68                      | 10/14,5                 | P2GR                 |
| HTBSI        | 43,00                             | 63/68                      | 10,00                   | P2GR                 |
| HTC7R        | 43,00                             | 63,00                      | 12/19                   |                      |
| TC9WY        | 43,00                             | 63,20                      | 11/26,5                 |                      |
| SA2          | 43,00                             | 65,00                      | 7,00                    | GD                   |
| TBR          | 43,00                             | 65,00                      | 7,00                    | ND                   |
| TB2          | 43,00                             | 65,05                      | 9,50                    | GD                   |
| HTC9I        | 43,00                             | 66,00                      | 10,5/17,5               | GR                   |
| OVC          | 43,00                             | 68,00                      | 12,00                   |                      |
| TB7Y         | 43,00                             | 70,00                      | 9/15,5                  | GD                   |
| HTCYI        | 43,00                             | 79,00                      | 10/13,5                 | GR                   |
| HSCYR        | 43,00                             | 92,00                      | 6,5/11                  |                      |
| HDC          | 43,00                             | 92/93                      | 12,5/18                 |                      |
| TC9Y         | 43,00                             | 92,00                      | 12,5/19,5               |                      |
| HSCYL        | 43,00                             | 93,00                      | 5/11,5                  |                      |
| HTB45I       | 43,16                             | 65,23/70,65                | 12,20                   | SSNDGR               |
| TB2          | 43,26                             | 59,15                      | 9,50                    | NDRD                 |
| TB2I         | 43,26                             | 76,96                      | 12,70                   | PORD                 |
| TB2YI        | 43,26                             | 78,33                      | 12,70                   | PORD                 |
| SBY          | 43,28                             | 64,44                      | 6,00                    | ND                   |
| TB35I        | 43,30                             | 78,23/87,5                 | 11,70                   | PO                   |
| TB45I        | 43,31                             | 78,33/83                   | 12,70                   | P5                   |
| HTB6R        | 43,40                             | 56/60,5                    | 7,40                    | PORD                 |
| HTB6R        | 43,40                             | 56,1/63,5                  | 7,5/9                   | P2                   |
| HTB6R        | 43,40                             | 56,1/63,5                  | 7,54/9                  | P2                   |
| PSO2         | 43,40                             | 107,16                     | 3,6/14                  |                      |
| VC5          | 43,50                             | 55/68,5                    | 5/6                     |                      |
| SB2          | 43,50                             | 58,00                      | 7,00                    | ND                   |
| SBR          | 43,50                             | 61,00                      | 9,00                    | GD                   |
| KB2          | 43,64                             | 65,00                      | 12,90                   | P2                   |
| VB2          | 43,64                             | 65,05                      | 12,70                   | P0                   |
| SA2          | 43,64                             | 73,03                      | 11,90                   | ND                   |
| SB2          | 43,65                             | 63,50                      | 7,90                    | ND                   |
| TA2          | 43,65                             | 66,68                      | 9,50                    | GD                   |
| TBCW59       | 43,65                             | 67/76,5                    | 9,9/18                  | SSND                 |
| TB2          | 43,66                             | 63,50                      | 7,90                    | P5RD                 |
| TB2          | 43,66                             | 65,05                      | 8,00                    | P5                   |
| VA2          | 43,66                             | 65,05                      | 12,70                   |                      |
| TB2          | 43,66                             | 65,09                      | 12,70                   | ND                   |
| HTBC59       | 43,66                             | 67,47/84,93                | 9,5/15,9                | SSND                 |
| PS19         | 43,66                             | 89,70                      | 9,9/27                  |                      |
| PSA2         | 43,66                             | 112,70                     | 13,9/16,6               |                      |
| PSX2         | 43,66                             | 112,70                     | 13,9/16,6               |                      |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| PSX2         | 43,66                      | 112,70           | 13,9/16,6     |               |
| HTC57W       | 43,69                      | 74/79,38         | 11,9/17,46    |               |
| VBRY         | 43,94                      | 59,33            | 6,40          | ND            |
| KB7Y         | 43,94                      | 59,33            | 6,5/11,9      | NDRD          |
| VP           | 44,00                      | 70,00            | 4,5/10        |               |
| TB           | 44,00                      | 54,00            | 4,50          | ND            |
| SB           | 44,00                      | 54,00            | 5,50          | GD            |
| TB           | 44,00                      | 54,00            | 7,50          | GD            |
| SB2          | 44,00                      | 56,00            | 7,00          | GD            |
| TC3          | 44,00                      | 56,00            | 8,00          |               |
| HTCWR        | 44,00                      | 57,50            | 7,00          | GR            |
| SB2          | 44,00                      | 58,00            | 7,00          | GD            |
| HSCR         | 44,00                      | 59,00            | 6,80          |               |
| SBY          | 44,00                      | 60,00            | 6/7,2         | GD            |
| TBY          | 44,00                      | 60,00            | 6/9           | ND            |
| HTCR         | 44,00                      | 60,00            | 7,00          |               |
| TC7          | 44,00                      | 60,00            | 7/10          |               |
| HSBR         | 44,00                      | 60,00            | 8,00          | P9            |
| TC5Y         | 44,00                      | 60/70            | 8/15          |               |
| TC7          | 44,00                      | 60,00            | 9/13          | GR            |
| HTCL         | 44,00                      | 60,00            | 9,50          | GR            |
| HTB2L        | 44,00                      | 60,00            | 10,00         | GD            |
| HTCR         | 44,00                      | 60,80            | 6,00          | SS            |
| KC4Y         | 44,00                      | 62,00            | 7,00          |               |
| TC7          | 44,00                      | 62,00            | 7/11,5        |               |
| TC7          | 44,00                      | 62,00            | 7,8/13        | SS            |
| TB           | 44,00                      | 62,00            | 8,00          | GD            |
| TB7I         | 44,00                      | 62,00            | 8/14          | ND            |
| TC35W        | 44,00                      | 62/69            | 8/10,5        |               |
| HTCL         | 44,00                      | 62,00            | 10,00         |               |
| SB7          | 44,00                      | 63,00            | 7/9,5         | ND            |
| TC9          | 44,00                      | 63,00            | 8/14          |               |
| TB7Y         | 44,00                      | 63,00            | 13/13,5       | GD            |
| SCY          | 44,00                      | 65,00            | 6,5/9         |               |
| HTCWL        | 44,00                      | 65,00            | 8/9,5         |               |
| SB2          | 44,00                      | 65,00            | 8,00          | GD            |
| HTC3L        | 44,00                      | 65,00            | 11,00         |               |
| HTC3R        | 44,00                      | 65,00            | 11,00         |               |
| TBCY         | 44,00                      | 65/90            | 21,00         | ND            |
| TBC7I        | 44,00                      | 67,00            | 10/15,5       | ND            |
| TCI          | 44,00                      | 67,00            | 10,00         |               |
| HSCL         | 44,00                      | 68,00            | 8,00          |               |
| HSCR         | 44,00                      | 68,00            | 8,00          |               |
| HTCL         | 44,00                      | 68,00            | 8,00          |               |
| HTBC9L       | 44,00                      | 69,00            | 10/15         | ND            |
| TB2I         | 44,00                      | 70,00            | 8,00          | GD            |
| TC59         | 44,00                      | 70/78            | 11/17,5       | SSGR          |
| DC5          | 44,00                      | 72/76            | 6,7/8,7       |               |
| TB7          | 44,00                      | 72,00            | 7/10          | SSP2          |
| Y5           | 44,00                      | 72/76            | 7/8           | GD            |
| HTCSL        | 44,00                      | 72/76            | 8,00          |               |
| HTCWL        | 44,00                      | 72,00            | 8,00          |               |
| TB2          | 44,00                      | 72,00            | 8,00          | GD            |
| DCY          | 44,00                      | 72,00            | 8,30          | SS            |
| HTC          | 44,00                      | 72,00            | 10/11         |               |
| HTC7R        | 44,00                      | 74,00            | 11/16,5       |               |
| KCY          | 44,00                      | 75,00            | 9,00          |               |
| TCLW         | 44,00                      | 76,00            | 9,5/11        | SS            |
| HTC7I        | 44,00                      | 80,00            | 7/12,5        |               |
| SB2          | 44,00                      | 80,00            | 12,00         | GD            |
| VBR          | 44,04                      | 53,98            | 4,80          | ND            |
| VBRY         | 44,04                      | 62,20            | 6,40          | ND            |
| VA2          | 44,05                      | 59,33            | 6,40          | GD            |
| TB2          | 44,05                      | 59,33            | 11,90         | GD            |
| VBJ          | 44,07                      | 52,40            | 6,10          | P2            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SAY          | 44,12                      | 62,23            | 12,7/22,23    | ND            |
| TB6          | 44,17                      | 76,2/81,5        | 12,70         | ND            |
| NBY          | 44,20                      | 62,00            | 6/6,5         | GD            |
| SC5AY        | 44,32                      | 60,58/64,77      | 9,30          | SS            |
| SC5Y         | 44,32                      | 60,58/64,77      | 9,30          | SS            |
| HSB5R        | 44,40                      | 66,62/73         | 8,40          | P0            |
| TB5R         | 44,40                      | 66,62/72,8       | 8,40          | P0            |
| KBC          | 44,41                      | 53,59            | 5,90          | ND            |
| VB5          | 44,42                      | 54,1/60,25       | 4,60          | ND            |
| KC4W         | 44,42                      | 55,00            | 6,00          | GR            |
| OU           | 44,42                      | 68,50            | 9,78          | ND            |
| SL5          | 44,45                      | 49/76            | 10/12,5       | GD            |
| VBX          | 44,45                      | 50,80            | 2,80          | ND            |
| VBX          | 44,45                      | 50,80            | 2,80          | ND            |
| OVY          | 44,45                      | 53,98            | 4,80          |               |
| VBR          | 44,45                      | 53,98            | 4,80          | GD            |
| VBRX         | 44,45                      | 53,98            | 4,80          | GD            |
| VBRX         | 44,45                      | 53,98            | 4,80          | GD            |
| SB           | 44,45                      | 53,98            | 5,00          | ND            |
| VB2          | 44,45                      | 57,15            | 4,80          | ND            |
| SB           | 44,45                      | 57,15            | 7,90          | GD            |
| SB2          | 44,45                      | 57,15            | 7,90          | SSP2          |
| TC4          | 44,45                      | 57,15            | 7,90          |               |
| HTBRR        | 44,45                      | 57,15            | 9,50          | SSND          |
| HTCR         | 44,45                      | 57,15            | 9,50          |               |
| TB           | 44,45                      | 57,15            | 9,50          | ND            |
| TCT          | 44,45                      | 58,73            | 8,4/8,9       |               |
| TCY          | 44,45                      | 58,73            | 8,4/8,9       |               |
| SB           | 44,45                      | 58,74            | 6,40          | GD            |
| SB2          | 44,45                      | 59,13            | 11,10         | GD            |
| TB2          | 44,45                      | 59,16            | 9,50          | ND            |
| TB3          | 44,45                      | 60,00            | 7,00          | ND            |
| TB2          | 44,45                      | 60,30            | 9,50          | P2RD          |
| SBC          | 44,45                      | 60,30            | 11,10         | ND            |
| DBR          | 44,45                      | 60,30            | 12,30         | NDGR6         |
| TB2          | 44,45                      | 60,33            | 7,90          | P2            |
| TB2          | 44,45                      | 61,12            | 9,50          | GD            |
| HTB2R        | 44,45                      | 61,24            | 9,50          | P0            |
| TB2          | 44,45                      | 61,24            | 9,60          | P0            |
| VB21         | 44,45                      | 61,90            | 6,40          | ND            |
| TB2          | 44,45                      | 61,91            | 7,90          | P9            |
| TB2          | 44,45                      | 61,91            | 9,50          | GD            |
| SA2          | 44,45                      | 61,91            | 11,90         | ND            |
| TB2          | 44,45                      | 61,91            | 11,90         | P0            |
| OVAFE        | 44,45                      | 61,98            | 6,40          | ND            |
| TB2          | 44,45                      | 62,00            | 9,50          | P0            |
| SB           | 44,45                      | 63,50            | 6,40          | SSSGD         |
| SBA          | 44,45                      | 63,50            | 6,40          | SSSGD         |
| SB2          | 44,45                      | 63,50            | 7,90          | P5RD          |
| TB2          | 44,45                      | 63,50            | 7,90          | ND            |
| TCI          | 44,45                      | 63,50            | 7,90          |               |
| HTCR         | 44,45                      | 63,50            | 9,00          |               |
| SB2          | 44,45                      | 63,50            | 9,50          | SSGD          |
| SB2          | 44,45                      | 63,50            | 9,50          | GD            |
| TB2I         | 44,45                      | 63,50            | 9,50          | GD            |
| TCI          | 44,45                      | 63,50            | 9,50          |               |
| OVY1         | 44,45                      | 63,5/69,06       | 10,00         |               |
| TC4          | 44,45                      | 63,50            | 12,00         |               |
| DC           | 44,45                      | 63,50            | 12,30         |               |
| TA2          | 44,45                      | 63,50            | 12,70         | P0            |
| TB2          | 44,45                      | 63,50            | 12,70         | GD            |
| VBRY         | 44,45                      | 63,55            | 6,40          | ND            |
| SB2          | 44,45                      | 63,55            | 7,90          | GD            |
| TB2          | 44,45                      | 63,55            | 7,90          | P0            |
| TB2          | 44,45                      | 63,55            | 7,90          | P2            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TB2          | 44,45                      | 63,55            | 7,90          | SSP5RD        |
| SA2          | 44,45                      | 63,55            | 9,50          | SSGD          |
| TB2          | 44,45                      | 63,55            | 12,70         | P2            |
| TB2          | 44,45                      | 65,00            | 10,00         | GD            |
| TB2          | 44,45                      | 65,05            | 12,70         | P0            |
| KBY          | 44,45                      | 65,07            | 12,70         | ND            |
| TB2          | 44,45                      | 65,15            | 7,90          | P0            |
| TB2          | 44,45                      | 66,62            | 7,90          | GD            |
| HTB5R        | 44,45                      | 66,62/72,8       | 8,70          | P0            |
| HSB5R        | 44,45                      | 66,62/72,8       | 9,10          | P0            |
| TB2          | 44,45                      | 66,62            | 12,70         | P2            |
| HSB5R        | 44,45                      | 66,68/72,8       | 9,10          | P0            |
| SB2          | 44,45                      | 68,22            | 7,90          | P5            |
| SB2          | 44,45                      | 68,22            | 9,50          | GD            |
| SB           | 44,45                      | 68,22            | 12,70         | P0            |
| SB2          | 44,45                      | 68,26            | 11,10         | ND            |
| SB2          | 44,45                      | 68,26            | 12,70         | GD            |
| TB2          | 44,45                      | 68,26            | 12,70         | ND            |
| VAFE         | 44,45                      | 69,00            | 9,10          | ND            |
| TB2          | 44,45                      | 69,01            | 11,10         | P2            |
| VB18         | 44,45                      | 69,03            | 9,10          | ND            |
| KBY          | 44,45                      | 69,04            | 9,10          | ND            |
| VA2Y         | 44,45                      | 69,06            | 8,90          | GD            |
| VB2Y         | 44,45                      | 69,06            | 8,90          | GD            |
| TB2          | 44,45                      | 69,06            | 9,10          | ND            |
| SB2          | 44,45                      | 69,85            | 7,90          | P2            |
| TB2          | 44,45                      | 69,85            | 7,90          | P0            |
| TB2          | 44,45                      | 69,85            | 9,50          | GD            |
| VB2Y         | 44,45                      | 69,85            | 12,30         | ND            |
| SA2          | 44,45                      | 69,85            | 12,70         | GD            |
| TB           | 44,45                      | 69,85            | 12,70         | GD            |
| TB2          | 44,45                      | 69,85            | 12,70         | GD            |
| HTCSYR       | 44,45                      | 70/81            | 6,40          | SS            |
| TB5          | 44,45                      | 71,44/83         | 15,10         | ND            |
| SB2          | 44,45                      | 73,03            | 7,90          | P2            |
| SA2          | 44,45                      | 73,03            | 11,90         | GD            |
| SB2          | 44,45                      | 73,03            | 12,70         | ND            |
| TB2          | 44,45                      | 76,20            | 7,90          | P2            |
| SB2          | 44,45                      | 76,20            | 9,50          | P2            |
| TB2          | 44,45                      | 76,20            | 9,50          | P2            |
| SB2          | 44,45                      | 76,20            | 12,70         | ND            |
| TB45         | 44,45                      | 77,79/84         | 12,30         | P0            |
| DBR          | 44,45                      | 77,79            | 12,40         | ND            |
| DBRJ         | 44,45                      | 77,79            | 12,40         | ND            |
| TB2          | 44,45                      | 79,38            | 9,50          | GD            |
| SB2          | 44,45                      | 80,09            | 7,90          | P0            |
| TB2          | 44,45                      | 81,00            | 7,90          | GD            |
| TB2          | 44,45                      | 81,00            | 11,10         | P0            |
| HSB5R        | 44,45                      | 82,02/87         | 9,5/11,1      | P6            |
| TB2          | 44,45                      | 82,90            | 12,70         | GD            |
| TB2I         | 44,45                      | 85,73            | 12,70         | GD            |
| TB2          | 44,45                      | 92,05            | 12,70         | GD            |
| TB2          | 44,45                      | 100,00           | 7,90          | ND            |
| HTC3         | 44,50                      | 62,00            | 10,00         |               |
| SB2          | 44,50                      | 66,68            | 9,50          | SSND          |
| HSA5R        | 44,50                      | 82,02/87,9       | 8,50          | P2            |
| HSB5R        | 44,50                      | 82,02/87,9       | 8,50          | P2            |
| Y            | 44,60                      | 50,80            | 5,10          |               |
| VB2Y         | 44,70                      | 54,00            | 6/8,5         | ND            |
| SB           | 44,72                      | 59,67            | 6,40          | ND            |
| VCY          | 44,80                      | 64,00            | 6,50          |               |
| SB2          | 44,86                      | 61,12            | 11,90         | GD            |
| HTB2R        | 44,86                      | 61,26            | 9,50          | P0            |
| BE           | 44,86                      | 80,14/85,09      | 10,00         |               |
| BE           | 44,86                      | 82,96/87,63      | 10,00         | ND            |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br>Notes |
|--------------|-----------------------------------|----------------------------|-------------------------|---------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |               |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |               |
| SL3          | 45,00                             | 50/67                      | 15/17,5                 | GD            |
| VP           | 45,00                             | 51,00                      | 3/4,5                   |               |
| TB           | 45,00                             | 52,00                      | 4,00                    | GD            |
| VBG          | 45,00                             | 52,00                      | 4,00                    | GD            |
| VBG          | 45,00                             | 52,00                      | 4,00                    | ND            |
| VBY          | 45,00                             | 52,00                      | 6/8                     | GD            |
| SL3          | 45,00                             | 52/69                      | 13/17                   | GD            |
| SBY          | 45,00                             | 53,00                      | 6,7/8                   | GD            |
| TB           | 45,00                             | 53,00                      | 7,00                    | GD            |
| KC5Y         | 45,00                             | 54,56/61,6                 | 8,70                    | GR            |
| KB           | 45,00                             | 55,00                      | 4,00                    | ND            |
| VAY          | 45,00                             | 55,00                      | 4,00                    | ND            |
| HTBI         | 45,00                             | 55,00                      | 6,00                    | GD            |
| SB2          | 45,00                             | 55,00                      | 7,00                    | GD            |
| TB           | 45,00                             | 55,00                      | 7,50                    | GD            |
| VAY          | 45,00                             | 56,00                      | 4,00                    | ND            |
| VAY          | 45,00                             | 56,00                      | 4,00                    | ND            |
| DKI          | 45,00                             | 57,00                      | 7/10                    | ND            |
| HTCR         | 45,00                             | 57,00                      | 7,00                    | SS            |
| DKI          | 45,00                             | 57,00                      | 10,00                   |               |
| DC4          | 45,00                             | 57,00                      | 11,00                   | SS            |
| SL5          | 45,00                             | 57,00                      | 13,50                   | GD            |
| HTCR         | 45,00                             | 57,1/57,7                  | 7,00                    | SSGR          |
| XICY3        | 45,00                             | 57,5/62                    | 6/12,7                  | SS            |
| HSCWR        | 45,00                             | 58,00                      | 7,00                    | SS            |
| SCW          | 45,00                             | 58,00                      | 7,00                    |               |
| HTCR         | 45,00                             | 58,00                      | 8,00                    |               |
| TB2          | 45,00                             | 58,00                      | 9,00                    | GD            |
| DC4          | 45,00                             | 58,00                      | 11,00                   | SS            |
| XICY3        | 45,00                             | 58,4/62                    | 4,6/14                  | SS            |
| TB357        | 45,00                             | 58,5/63                    | 4/8,5                   | ND            |
| VCK          | 45,00                             | 59,00                      | 8,00                    |               |
| TB2          | 45,00                             | 59,00                      | 10,00                   | ND            |
| TB2          | 45,00                             | 59,13                      | 10,00                   | ND            |
| VBY          | 45,00                             | 60,00                      | 6,5/8                   | ND            |
| SCY          | 45,00                             | 60,00                      | 7,00                    | SS            |
| TB7R         | 45,00                             | 60,00                      | 7/10                    | GD            |
| VCPJ         | 45,00                             | 60,00                      | 7,00                    |               |
| HTC42W       | 45,00                             | 60,00                      | 8,00                    |               |
| KC           | 45,00                             | 60,00                      | 8,00                    | GRLF          |
| SB2          | 45,00                             | 60,00                      | 8,00                    | GD            |
| SCI          | 45,00                             | 60,00                      | 8,00                    | SS            |
| TCI          | 45,00                             | 60,00                      | 8,00                    |               |
| TCI          | 45,00                             | 60,00                      | 8,00                    | SS            |
| TCWI         | 45,00                             | 60,00                      | 8,00                    |               |
| DCW          | 45,00                             | 60,00                      | 9,00                    |               |
| HTBCWR       | 45,00                             | 60,00                      | 9,00                    | NDGR          |
| HTBRR        | 45,00                             | 60,00                      | 9,00                    | GD            |
| HTCR         | 45,00                             | 60,00                      | 9,00                    | GR            |
| HTCWR        | 45,00                             | 60,00                      | 9,00                    |               |
| SBR          | 45,00                             | 60,00                      | 9,00                    | GD            |
| TB2          | 45,00                             | 60,00                      | 9,00                    | PO            |
| HTCR         | 45,00                             | 60,00                      | 10,00                   |               |
| HTB21R       | 45,00                             | 60,00                      | 10,80                   | PO            |
| HTC7L        | 45,00                             | 61,00                      | 8/10                    |               |
| TBR          | 45,00                             | 61,00                      | 10,00                   | GD            |
| SA2          | 45,00                             | 62,00                      | 5,00                    | GD            |
| HTCR         | 45,00                             | 62,00                      | 6,00                    | SS            |
| KB2          | 45,00                             | 62,00                      | 6,00                    | GD            |
| HSBR         | 45,00                             | 62,00                      | 7,00                    | GD            |
| HTCWL        | 45,00                             | 62,00                      | 7,00                    | SS            |
| SB2I         | 45,00                             | 62,00                      | 7,00                    |               |
| TB2          | 45,00                             | 62,00                      | 7,00                    | GD            |
| TCHM         | 45,00                             | 62,00                      | 7,00                    |               |
| DC           | 45,00                             | 62,00                      | 8,00                    |               |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTBCWR       | 45,00                      | 62,00            | 8,00          | NDGR          |
| HTCKR        | 45,00                      | 62,00            | 8,00          |               |
| HTCWR        | 45,00                      | 62,00            | 8,00          |               |
| HSCR         | 45,00                      | 62,00            | 9,00          |               |
| HTB2L        | 45,00                      | 62,00            | 9,00          | GD            |
| HTCKR        | 45,00                      | 62,00            | 9,00          |               |
| HTCR         | 45,00                      | 62,00            | 9,00          |               |
| SCJ          | 45,00                      | 62,00            | 9,00          | SS            |
| TB2          | 45,00                      | 62,00            | 9,00          | GD            |
| TC7Y         | 45,00                      | 62,00            | 9/14,5        |               |
| HSB5L        | 45,00                      | 62/66            | 10,00         | ND            |
| HSB5R        | 45,00                      | 62/66            | 10,00         | ND            |
| HTCR         | 45,00                      | 62,00            | 10,00         |               |
| TB           | 45,00                      | 62,00            | 10/12         | GD            |
| TCW          | 45,00                      | 62,00            | 10,00         |               |
| TCSY         | 45,00                      | 62/68            | 10,50         |               |
| DC           | 45,00                      | 62,00            | 11,00         |               |
| DB4X         | 45,00                      | 62,00            | 12,00         | SSND          |
| HTCR         | 45,00                      | 62,00            | 12,00         |               |
| TC42Y        | 45,00                      | 62,00            | 14,00         |               |
| SBI          | 45,00                      | 62,10            | 6,40          | ND            |
| OTC          | 45,00                      | 62,10            | 8,00          |               |
| 9RB          | 45,00                      | 63,00            | 4,5/6,5       |               |
| 9RB          | 45,00                      | 63,00            | 4,5/6,5       |               |
| TB2          | 45,00                      | 63,00            | 7,00          | GD            |
| HTBCR        | 45,00                      | 63,00            | 7,50          | NDGR          |
| HTCR         | 45,00                      | 63,00            | 7,50          |               |
| DCW          | 45,00                      | 63,00            | 13/15         | SS            |
| HTB5R        | 45,00                      | 63,5/77,4        | 9,00          | PO            |
| TB2          | 45,00                      | 63,50            | 10,00         | GD            |
| HTC7R        | 45,00                      | 64,00            | 9/11,5        |               |
| TCI          | 45,00                      | 64,00            | 9,00          | GR            |
| SB2          | 45,00                      | 64,00            | 12,00         | GD            |
| TA2YI        | 45,00                      | 64,00            | 12,00         | GD            |
| TB2          | 45,00                      | 65,00            | 5,00          | GD            |
| VB2          | 45,00                      | 65,00            | 5,00          | GD            |
| TCJ          | 45,00                      | 65,00            | 6,00          |               |
| VCTY         | 45,00                      | 65,00            | 6,5/9         |               |
| HTCWR        | 45,00                      | 65,00            | 7,00          | SS            |
| DC           | 45,00                      | 65,00            | 8,00          | SS            |
| HTCWL        | 45,00                      | 65,00            | 8/10          |               |
| TB2          | 45,00                      | 65,00            | 8,00          | GD            |
| HTB2R        | 45,00                      | 65,00            | 9,00          | ND            |
| SB2          | 45,00                      | 65,00            | 9,00          | GD            |
| TC9YWL       | 45,00                      | 65,00            | 9/21          |               |
| HSC5R        | 45,00                      | 65/70            | 10,00         |               |
| HTBCR        | 45,00                      | 65,00            | 10/8          | ND            |
| HTBCWR       | 45,00                      | 65,00            | 10,00         | SSND          |
| HTBL         | 45,00                      | 65,00            | 10,00         | GD            |
| TA2          | 45,00                      | 65,00            | 10,00         | GD            |
| TB2          | 45,00                      | 65,00            | 10,00         | GD            |
| TCWI         | 45,00                      | 65,00            | 10,00         |               |
| TC9          | 45,00                      | 65,00            | 11/17         |               |
| SCW          | 45,00                      | 65,00            | 12,00         |               |
| TB2          | 45,00                      | 65,00            | 12,00         | GD            |
| DCA          | 45,00                      | 65,00            | 15,00         |               |
| DAWU         | 45,00                      | 65,00            | 25,00         | ND            |
| HTCJ         | 45,00                      | 67,00            | 8,00          |               |
| HTCWR        | 45,00                      | 67,00            | 8,00          |               |
| HTCWRA       | 45,00                      | 67,00            | 8/11,5        |               |
| HTCWYR       | 45,00                      | 67,00            | 8/10          |               |
| HTCR         | 45,00                      | 67,00            | 10,00         |               |
| TBA          | 45,00                      | 67,00            | 11/13,5       | ND            |
| TBCW         | 45,00                      | 67,00            | 13/13,5       | ND            |
| HTCR         | 45,00                      | 68,00            | 8,50          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SCE          | 45,00                      | 68,00            | 9,00          |               |
| SCEA         | 45,00                      | 68,00            | 9,00          | ND            |
| TB3          | 45,00                      | 68,00            | 9,00          | GD            |
| SL16         | 45,00                      | 68,00            | 9,8/17        | GDGR          |
| TB2          | 45,00                      | 68,00            | 11,00         | GD            |
| HTCR         | 45,00                      | 68,00            | 12,00         | GR            |
| SB2          | 45,00                      | 68,00            | 12,00         | GD            |
| TB2          | 45,00                      | 68,00            | 12,00         | GD            |
| TC42         | 45,00                      | 68,00            | 12,00         |               |
| HTC7R        | 45,00                      | 68,00            | 12,5/19,5     |               |
| DCA          | 45,00                      | 68,00            | 15,00         |               |
| OVY          | 45,00                      | 69,00            | 11,00         |               |
| HSCR         | 45,00                      | 70,00            | 8,00          |               |
| TB2I         | 45,00                      | 70,00            | 8,00          | GD            |
| DCW          | 45,00                      | 70,00            | 12,00         |               |
| TA2          | 45,00                      | 70,00            | 13,00         | P9            |
| SL           | 45,00                      | 70,00            | 14,00         | GD            |
| DBR          | 45,00                      | 70,00            | 15,00         | GD            |
| DCW          | 45,00                      | 70,10            | 9,30          |               |
| SCW          | 45,00                      | 72,00            | 10,00         |               |
| TB2          | 45,00                      | 72,00            | 10,00         | GD            |
| DB2          | 45,00                      | 72,00            | 11,00         | GD            |
| HTB2R        | 45,00                      | 72,00            | 12,00         | GD            |
| HTB7YR       | 45,00                      | 72,00            | 12/19         | GD            |
| TB2          | 45,00                      | 72,00            | 12,00         | GD            |
| HTC42W       | 45,00                      | 72,00            | 15,00         |               |
| KC           | 45,00                      | 72,20            | 7,5/8,5       |               |
| KCY          | 45,00                      | 72,20            | 7,5/8,5       |               |
| TB2          | 45,00                      | 73,50            | 12,00         | GD            |
| HTCWYR       | 45,00                      | 74,5/80          | 12/14,5       |               |
| TC42W        | 45,00                      | 75,00            | 8/9           |               |
| HTCL         | 45,00                      | 75,00            | 10/13         |               |
| HTCR         | 45,00                      | 75,00            | 10/13         |               |
| HTB2R        | 45,00                      | 75,00            | 12,00         | GD            |
| HTB57R       | 45,00                      | 75/81            | 12/19         | ND            |
| HTBCWL       | 45,00                      | 75,00            | 12,00         | ND            |
| HTCR         | 45,00                      | 75,00            | 12,00         |               |
| TB2          | 45,00                      | 75,00            | 12,00         | GD            |
| TC7Y         | 45,00                      | 76,00            | 10,5/18       | SS            |
| HTB7R        | 45,00                      | 78,00            | 11/18,5       | GD            |
| TB2          | 45,00                      | 78,00            | 12,00         | GD            |
| TC37Y        | 45,00                      | 78,00            | 13/26         |               |
| HTC7L        | 45,00                      | 80,00            | 10/16,5       |               |
| SL           | 45,00                      | 80,00            | 11,00         | GD            |
| SB2          | 45,00                      | 85,00            | 8,00          | GD            |
| DCF          | 45,00                      | 85,00            | 10,00         |               |
| HTCL         | 45,00                      | 85,00            | 10,00         |               |
| HSCW7Y       | 45,00                      | 85,30            | 10/18,5       |               |
| TC5J         | 45,00                      | 87,00            | 6,50          | SS            |
| TC5J         | 45,00                      | 90,00            | 8,5/10,5      |               |
| TC5Y         | 45,00                      | 90/94            | 8,5/10,5      |               |
| TC9Y         | 45,00                      | 90,00            | 9,5/17        |               |
| TBC7I        | 45,00                      | 98,00            | 10,5/15,7     | ND            |
| TBC57I       | 45,00                      | 102,3/126        | 11,5/18,3     | ND            |
| OVY          | 45,09                      | 50,00            | 9,30          |               |
| ORING        | 45,20                      | 0,00             | 2,50          |               |
| UPH          | 45,24                      | 55,56            | 6,40          |               |
| KBY          | 45,24                      | 59,00            | 15,7/26,2     | GD            |
| SA2          | 45,24                      | 63,55            | 7,90          | P2            |
| SB2          | 45,24                      | 68,22            | 9,50          | P2            |
| SB2          | 45,24                      | 69,85            | 7,90          | ND            |
| PSO5         | 45,24                      | 100,01           | 4,8/25,6      | ND            |
| SA2Y         | 45,24                      | 104,78           | 14,30         | ND            |
| VBRX3        | 45,62                      | 69,22            | 12,70         | ND            |
| BE           | 45,72                      | 87,63            | 9,90          | ND            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| VBR          | 45,80                      | 75,31            | 6,40          | ND            |
| VBE          | 45,82                      | 60,91            | 6,20          | ND            |
| KB45         | 45,95                      | 59,97/72,7       | 9,70          | ND            |
| HSBY         | 46,00                      | 53,00            | 6,5/8         | GD            |
| SB           | 46,00                      | 55,00            | 5,50          | GD            |
| VP           | 46,00                      | 56,50            | 2,6/4,1       |               |
| HTCWR        | 46,00                      | 58,00            | 7,00          |               |
| DC4          | 46,00                      | 58,00            | 9,5/11        | SS            |
| DC4          | 46,00                      | 58,00            | 10,50         | SS            |
| XICY3        | 46,00                      | 58,5/62,5        | 4,6/11,5      |               |
| XICY1        | 46,00                      | 58,50            | 5/9,9         |               |
| TBSY         | 46,00                      | 59/69            | 5,5/11,6      | SSND          |
| KB           | 46,00                      | 59,00            | 9,00          | GD            |
| KC           | 46,00                      | 59,10            | 12,00         |               |
| TB           | 46,00                      | 59,10            | 12,00         | GD            |
| HTCL         | 46,00                      | 60,00            | 7,00          |               |
| SCY          | 46,00                      | 60,00            | 10/16         |               |
| TBY          | 46,00                      | 61,00            | 6,5/10        | GD            |
| HSCR         | 46,00                      | 61,90            | 7,00          |               |
| KB2          | 46,00                      | 62,00            | 7,00          | GD            |
| TB           | 46,00                      | 62,00            | 7,00          | GD            |
| TBY          | 46,00                      | 62/80            | 7/20,5        | ND            |
| OKBL3        | 46,00                      | 62,00            | 7,50          | ND            |
| KC7          | 46,00                      | 62,00            | 8/13          |               |
| KC7Y         | 46,00                      | 62,00            | 8/14          |               |
| LAB          | 46,00                      | 62,00            | 8,00          |               |
| TC42         | 46,00                      | 62,00            | 8,00          |               |
| TBI          | 46,00                      | 62,00            | 9,00          | GD            |
| HTCR         | 46,00                      | 63,00            | 6,50          |               |
| HTCL         | 46,00                      | 63,00            | 8,00          |               |
| HTCR         | 46,00                      | 63,15            | 6,00          |               |
| HSCR         | 46,00                      | 63,20            | 7,50          |               |
| KC7          | 46,00                      | 64,00            | 8/13          |               |
| VBY          | 46,00                      | 64,50            | 5,30          | ND            |
| OVY          | 46,00                      | 65,60            | 10,30         |               |
| SCAY         | 46,00                      | 68,20            | 6,7/8,3       |               |
| SCY          | 46,00                      | 68,20            | 6,7/8,3       |               |
| TC7Y         | 46,00                      | 69,40            | 10/15         | SS            |
| TCSY         | 46,00                      | 69,4/80          | 11/16         | SS            |
| TCSY         | 46,00                      | 69,4/80          | 11/15         |               |
| OVBY         | 46,00                      | 69,50            | 15,50         |               |
| HTCR         | 46,00                      | 70,00            | 8,00          |               |
| DC45         | 46,00                      | 70/78            | 11/18,3       | SSGR          |
| TCYI         | 46,00                      | 72,00            | 3/7           |               |
| DCYJ         | 46,00                      | 76,00            | 2,5/9         |               |
| HTB2R        | 46,00                      | 78,00            | 10,00         | GD            |
| HTB2R        | 46,00                      | 78,00            | 10,00         | ND            |
| SCY          | 46,00                      | 94,20            | 8/10          |               |
| VCY          | 46,00                      | 94,50            | 8,00          |               |
| SCY          | 46,00                      | 95,00            | 10/14         |               |
| SCY          | 46,00                      | 102,00           | 10/16         |               |
| KBY          | 46,02                      | 65,05            | 12,70         | ND            |
| TA6          | 46,02                      | 73,03            | 12,70         | SSNDGR        |
| HTBSR        | 46,02                      | 78,52/86,5       | 12,30         | PO            |
| HTB45R       | 46,03                      | 76,2/84          | 11,6/15,5     | ND            |
| VB2          | 46,04                      | 59,10            | 11,10         | PO            |
| VB18         | 46,04                      | 65,09            | 11,10         | ND            |
| TB2          | 46,04                      | 66,62            | 9,50          | PO            |
| HTBSR        | 46,04                      | 66,62/76,2       | 11,60         | PO            |
| SB2          | 46,04                      | 66,62            | 12,70         | PORD          |
| SL7          | 46,04                      | 68,00            | 13,4/15,5     | ND            |
| TB2          | 46,04                      | 69,85            | 9,50          | PO            |
| SA2          | 46,04                      | 69,85            | 12,70         | GD            |
| HTBS9R       | 46,04                      | 70,54/79,3       | 10,4/14,6     | GR            |
| HTBSR        | 46,04                      | 70,54/79,3       | 14,60         | PO            |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br><i>Notes</i> |
|--------------|-----------------------------------|----------------------------|-------------------------|----------------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |                      |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |                      |
| TB2          | 46,04                             | 73,03                      | 9,50                    | PO                   |
| HTB5I        | 46,04                             | 73,03/81,75                | 10,30                   | SSNDGR               |
| TB2          | 46,04                             | 76,20                      | 9,50                    | ND                   |
| HTB5R        | 46,04                             | 76,2/84                    | 12,70                   | P2                   |
| PS5          | 46,04                             | 87/91,28                   | 14,70                   | ND                   |
| KCW          | 46,20                             | 80,00                      | 6,00                    |                      |
| KCW          | 46,20                             | 80,00                      | 7,00                    |                      |
| SBEW         | 46,40                             | 66,60                      | 13,80                   | NDGR                 |
| VP           | 46,50                             | 54,50                      | 10,00                   |                      |
| SA5          | 46,50                             | 62/69                      | 10,00                   | ND                   |
| TBCY         | 46,50                             | 90,00                      | 10,5/15,5               | ND                   |
| DBC7         | 46,50                             | 90,00                      | 11/16                   | SSND                 |
| DC7          | 46,50                             | 90,00                      | 11/15,5                 |                      |
| TB2          | 46,67                             | 67,85                      | 9,50                    | P5GRRD               |
| HSCWR        | 46,80                             | 66,68                      | 11,1/11,4               |                      |
| KBY          | 46,81                             | 61,00                      | 6,00                    | ND                   |
| TB2          | 46,81                             | 69,85                      | 9,50                    | PO                   |
| TB2          | 46,82                             | 69,85                      | 12,70                   | PO                   |
| SB           | 46,83                             | 60,35                      | 9,50                    | GD                   |
| TB2          | 46,83                             | 66,62                      | 9,50                    | PO                   |
| HSCW         | 46,83                             | 66,68                      | 10,50                   |                      |
| HTB59L       | 46,83                             | 77,79/84,53                | 15,9/12,7               | SSND                 |
| TB           | 47,00                             | 56,00                      | 7,00                    | GD                   |
| KC42         | 47,00                             | 58,00                      | 7,00                    |                      |
| TC42         | 47,00                             | 58,00                      | 7,00                    |                      |
| DC4          | 47,00                             | 58,00                      | 10/11,5                 | SS                   |
| TC4          | 47,00                             | 58,00                      | 10,00                   |                      |
| XICY8        | 47,00                             | 58,3/62                    | 6/10,5                  | SS                   |
| TC7          | 47,00                             | 61,80                      | 6/10                    | SS                   |
| HTB6         | 47,00                             | 61,98                      | 10,30                   | NDRD                 |
| SB2          | 47,00                             | 62,00                      | 9,00                    | GD                   |
| HTCR         | 47,00                             | 63,00                      | 6,00                    | SS                   |
| KCY          | 47,00                             | 64/66                      | 6/14,5                  | ND                   |
| DBCY         | 47,00                             | 64,00                      | 7,00                    | ND                   |
| TA2          | 47,00                             | 65,00                      | 12,00                   | GD                   |
| TB7Y         | 47,00                             | 66,00                      | 6/11                    | GD                   |
| SCW          | 47,00                             | 66,00                      | 8,00                    |                      |
| HSBRI        | 47,00                             | 67,50                      | 4,50                    | ND                   |
| HTB2R        | 47,00                             | 68,00                      | 10,00                   | P2                   |
| HTB7L        | 47,00                             | 69,00                      | 10/16                   | ND                   |
| HTC42I       | 47,00                             | 69,00                      | 10,00                   |                      |
| HTC7         | 47,00                             | 69,00                      | 10/16                   |                      |
| HDA2         | 47,00                             | 69,00                      | 10,10                   | PO                   |
| KC7          | 47,00                             | 70,00                      | 8,5/12                  |                      |
| TCE7Y        | 47,00                             | 71,70                      | 8/11                    |                      |
| HTCSJL       | 47,00                             | 72/75                      | 6/8,5                   |                      |
| HTCSL        | 47,00                             | 72/75                      | 6,00                    |                      |
| HTB7YI       | 47,00                             | 72,00                      | 10/11                   | GD                   |
| TCWA         | 47,00                             | 72,00                      | 12/14,5                 |                      |
| Y            | 47,00                             | 72,00                      | 17,00                   |                      |
| KCY          | 47,00                             | 72,20                      | 6/8,5                   |                      |
| HTB7R        | 47,00                             | 80,00                      | 10/16                   | ND                   |
| HTC7         | 47,00                             | 80,00                      | 10/16                   |                      |
| KC           | 47,50                             | 59,00                      | 12,00                   |                      |
| TC3          | 47,50                             | 70,65                      | 9,00                    |                      |
| VE           | 47,50                             | 72,00                      | 8,00                    |                      |
| SA2          | 47,50                             | 95,10                      | 11,10                   | GD                   |
| VBR          | 47,55                             | 52,26                      | 3,20                    | BRASS ND             |
| SAVT         | 47,60                             | 66,65                      | 9,50                    | GD                   |
| HTCSYR       | 47,60                             | 70/81                      | 6,40                    | SS                   |
| SB           | 47,63                             | 57,15                      | 4,80                    | GD                   |
| TBR          | 47,63                             | 58,80                      | 5,20                    | ND                   |
| VB2Y         | 47,63                             | 60,15                      | 6,00                    | GD                   |
| TC40         | 47,63                             | 60,33                      | 8,00                    | SS                   |
| VA2          | 47,63                             | 60,96                      | 6,10                    | GD                   |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SB2          | 47,63                      | 61,00            | 6,40          | P5            |
| TB2          | 47,63                      | 62,76            | 11,10         | ND            |
| SB2          | 47,63                      | 63,50            | 7,90          | P5RD          |
| SCJ          | 47,63                      | 63,50            | 8,00          | SS            |
| VCJ          | 47,63                      | 63,50            | 8,00          | SUS           |
| HTBCR        | 47,63                      | 63,50            | 8,70          | ND            |
| HSCR         | 47,63                      | 63,50            | 9,20          |               |
| SA2          | 47,63                      | 63,50            | 11,10         | ND            |
| SB2          | 47,63                      | 63,50            | 11,10         | P2RD          |
| TBC57L       | 47,63                      | 63,53/83,85      | 8/12,9        | ND            |
| TB2          | 47,63                      | 63,55            | 7,90          | P0            |
| SB2          | 47,63                      | 63,55            | 9,50          | P0            |
| HTB2R        | 47,63                      | 63,96            | 9,50          | P2            |
| VP           | 47,63                      | 64/80            | 23,00         |               |
| SBC          | 47,63                      | 64,29            | 6,40          | ND            |
| SB           | 47,63                      | 64,40            | 7,20          | SSND          |
| SBY          | 47,63                      | 64,45            | 5/9,5         | ND            |
| SBR          | 47,63                      | 64,85            | 7,20          | ND            |
| HTB2YR       | 47,63                      | 65,02            | 9,50          | SSP2          |
| HTB2R        | 47,63                      | 65,02            | 10,30         | PORD          |
| VY           | 47,63                      | 65,08            | 3,54          |               |
| VB5          | 47,63                      | 65,09/72         | 6,40          | ND            |
| HSCR         | 47,63                      | 65,09            | 9,50          |               |
| TB2          | 47,63                      | 65,09            | 9,50          | P2            |
| HTB5R        | 47,63                      | 65,09/79,38      | 13,50         | P5            |
| TB2          | 47,63                      | 66,62            | 7,90          | P0            |
| SB2          | 47,63                      | 66,62            | 9,50          | P5            |
| TA2          | 47,63                      | 66,62            | 12,70         | P0            |
| SAFE         | 47,63                      | 66,62            | 19,90         | ND            |
| HSB5R        | 47,63                      | 66,68/73         | 9,50          | P0            |
| HSBR         | 47,63                      | 66,68            | 9,50          | ND            |
| TB2I         | 47,63                      | 66,68            | 9,50          | GD            |
| SAVT         | 47,63                      | 66,68            | 10,30         | GD            |
| SB           | 47,63                      | 66,68            | 11,43         | SSGD          |
| TA2Y         | 47,63                      | 66,68            | 12,70         | SSP11         |
| VBY          | 47,63                      | 66,68            | 13,70         | P11           |
| VA7Y         | 47,63                      | 66,75            | 4,6/9,2       | GD            |
| SB5E         | 47,63                      | 67,31/73,7       | 8,90          | SSP0          |
| HTB5R        | 47,63                      | 68/78            | 9,50          | P0            |
| HTC5WR       | 47,63                      | 68/74            | 13,00         |               |
| TB2          | 47,63                      | 68,22            | 9,50          | GD            |
| SB2          | 47,63                      | 68,26            | 7,90          | P5            |
| HTC5AI       | 47,63                      | 68,26/82         | 11,9/34,93    | NDGR          |
| HTC5YI       | 47,63                      | 68,26/82         | 11,9/16       | NDGR          |
| HTC5AI       | 47,63                      | 68,5/82          | 11,5/35,5     | ND            |
| HTC5I        | 47,63                      | 68,5/82          | 11,50         | ND            |
| HTA5YL       | 47,63                      | 68,6/77,5        | 10/37         | P0            |
| HTB5YL       | 47,63                      | 68,6/77,5        | 10,00         | P0            |
| HTB5L        | 47,63                      | 68,63/75,8       | 15,00         | P0            |
| HTB5L        | 47,63                      | 68,63/75,8       | 15,00         | P2            |
| TB2          | 47,63                      | 69,85            | 7,90          | ND            |
| TB2          | 47,63                      | 69,85            | 7,90          | GD            |
| TB2I         | 47,63                      | 69,85            | 9,50          | SSGD          |
| HTB7R        | 47,63                      | 69,85            | 11,5/15,9     | SSP5          |
| DCW          | 47,63                      | 69,85            | 11,90         |               |
| HTC5AI       | 47,63                      | 69,85/80         | 11,9/34,93    |               |
| HTC5YI       | 47,63                      | 69,85/83         | 11,90         |               |
| DBR          | 47,63                      | 69,85            | 12,40         | ND            |
| TB42         | 47,63                      | 69,85            | 12,70         | P5RD          |
| TB45I        | 47,63                      | 69,85/76,5       | 12,70         | P0            |
| HTC5YI       | 47,63                      | 69,85/80         | 13/21,6       |               |
| TCSY         | 47,63                      | 69,85/80         | 13/21         |               |
| DB           | 47,63                      | 70,05            | 11,90         | SSP0          |
| HSB5R        | 47,63                      | 70,1/77,5        | 8,2/9         | P2            |
| HSA5R        | 47,63                      | 70,1/77,5        | 9,00          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HSB5R        | 47,63                      | 70,1/77,5        | 9,5/10,3      | P7            |
| HSB5R        | 47,63                      | 70,1/77,5        | 9,5/10,2      | P7            |
| HSB5R        | 47,63                      | 70,1/76,1        | 10,00         | P0            |
| TB3          | 47,63                      | 70,64            | 13,50         | GD            |
| TB42         | 47,63                      | 70,64            | 17,00         | P5RD          |
| VBR          | 47,63                      | 70,66            | 6,40          | ND            |
| TA2          | 47,63                      | 70,66            | 12,70         | P0            |
| TB42         | 47,63                      | 70,80            | 16,70         | P5            |
| TB5          | 47,63                      | 71,42/86         | 18,30         | ND            |
| HTB57        | 47,63                      | 71,44/81         | 12,2/15,1     | NDGR          |
| HTB5R        | 47,63                      | 71,44/88,5       | 12,70         | P0            |
| TB2          | 47,63                      | 72,00            | 9,50          | P0            |
| VB21         | 47,63                      | 72,00            | 9,50          | ND            |
| TB2          | 47,63                      | 72,01            | 11,90         | ND            |
| TB2          | 47,63                      | 73,03            | 7,90          | GD            |
| TB2I         | 47,63                      | 73,03            | 9,50          | GD            |
| TB95I        | 47,63                      | 73,03            | 9,5/12,5      | ND            |
| TB59I        | 47,63                      | 73,03            | 10/13         | ND            |
| TBY          | 47,63                      | 73,03            | 11,5/14,5     | ND            |
| SA2          | 47,63                      | 73,03            | 11,90         | P0            |
| TBY          | 47,63                      | 73,10            | 9,7/16        |               |
| TB42         | 47,63                      | 73,30            | 9,9/12,7      | SSND          |
| KB5          | 47,63                      | 73,81/80         | 10,50         | P0            |
| KAY          | 47,63                      | 75,18/93,5       | 9,00          | ND            |
| KBY          | 47,63                      | 76,07            | 11,10         | ND            |
| SA2          | 47,63                      | 76,10            | 12,70         | P0            |
| TB2          | 47,63                      | 76,20            | 7,90          | GD            |
| SB2          | 47,63                      | 76,20            | 9,50          | P0            |
| TB2          | 47,63                      | 76,20            | 9,50          | P2            |
| TB2          | 47,63                      | 77,75            | 7,95          | P0            |
| HTB59I       | 47,63                      | 77,79/86,52      | 12,7/20,65    | SSND          |
| SB5          | 47,63                      | 78,9/83          | 12,70         |               |
| VP           | 47,63                      | 79,00            | 23,50         |               |
| TB2I         | 47,63                      | 79,38            | 9,50          | GD            |
| TB2          | 47,63                      | 79,38            | 12,70         | GD            |
| VPJ          | 47,63                      | 79,80            | 22,00         |               |
| TBCY         | 47,63                      | 79,90            | 23,60         | ND            |
| HTB57R       | 47,63                      | 80,26            | 6,4/19,05     | ND            |
| TB14         | 47,63                      | 80,26            | 6,4/16,2      | ND            |
| TB5Y         | 47,63                      | 80,26            | 6,4/19,05     | NDGR          |
| TB5Y         | 47,63                      | 80,26/71,2       | 6,4/17,6      | P0            |
| TBY          | 47,63                      | 80,26            | 6,4/14,5      | P9            |
| HTB57R       | 47,63                      | 80,26/87,3       | 13,4/18,3     | SSND3M        |
| TAY          | 47,63                      | 80,26            | 13,46         | NDGR          |
| HTB5AL       | 47,63                      | 80,5/89          | 12,00         | POGR          |
| TB425L       | 47,63                      | 80,5/89          | 12,00         | POGR          |
| VP           | 47,63                      | 80,50            | 22,00         |               |
| SA2          | 47,63                      | 82,58            | 12,70         | P0            |
| SBR          | 47,75                      | 60,91            | 6,40          | ND            |
| HTB21L       | 47,88                      | 72,14            | 11,40         | SSP2          |
| HTC9WI       | 47,90                      | 69,85            | 11,9/31       |               |
| HTC9WI       | 47,90                      | 69,85            | 13/22         |               |
| VBRJ         | 48,00                      | 53,98            | 3,80          | SUSND         |
| DC4Y         | 48,00                      | 54,20            | 9,5/12        | SS            |
| VP           | 48,00                      | 56,00            | 3,00          |               |
| DC4          | 48,00                      | 58,00            | 8,5/10,5      | SS            |
| DC4          | 48,00                      | 58,00            | 9,5/11,5      | SS            |
| TB           | 48,00                      | 58,00            | 10,00         | GD            |
| HTCR         | 48,00                      | 58,00            | 11,00         |               |
| XICY3        | 48,00                      | 58,2/62          | 6/13          | SS            |
| TC4          | 48,00                      | 59,00            | 10,00         |               |
| HTCR         | 48,00                      | 60,00            | 7,00          |               |
| TB           | 48,00                      | 60,00            | 8,00          | GD            |
| HTBR         | 48,00                      | 60,00            | 9,00          | GD            |
| TB           | 48,00                      | 60,00            | 10,00         | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TC4          | 48,00                      | 60,00            | 10,00         |               |
| TC4          | 48,00                      | 61,00            | 11,00         |               |
| KC           | 48,00                      | 62,00            | 6,00          |               |
| HTCW         | 48,00                      | 62,00            | 7/6,5         |               |
| OKC          | 48,00                      | 62,00            | 7,00          |               |
| TA2          | 48,00                      | 62,00            | 7,00          | GD            |
| TA2Y         | 48,00                      | 62,00            | 7/8,8         | GD            |
| TB2          | 48,00                      | 62,00            | 7,00          | GD            |
| TB5Y         | 48,00                      | 62/66            | 7/11,5        | ND            |
| TC5Y         | 48,00                      | 62/70            | 7/10          | SS            |
| SB2          | 48,00                      | 62,00            | 8,00          | GD            |
| SCI          | 48,00                      | 62,00            | 8,00          | SS            |
| SCY          | 48,00                      | 62,00            | 8/10,5        |               |
| TA2          | 48,00                      | 62,00            | 8,00          | GD            |
| TB2          | 48,00                      | 62,00            | 8,00          | GD            |
| TC7Y         | 48,00                      | 62,00            | 8/13          |               |
| TCI          | 48,00                      | 62,00            | 8,00          |               |
| HTBR         | 48,00                      | 62,00            | 9,00          | GD            |
| HTCL         | 48,00                      | 62,00            | 9,00          |               |
| KC3Y         | 48,00                      | 62,00            | 9/24          |               |
| SB           | 48,00                      | 62,00            | 9,00          | GD            |
| SB2Y         | 48,00                      | 62,00            | 9,00          | GD            |
| SCY          | 48,00                      | 62,00            | 9,00          |               |
| TB2          | 48,00                      | 62,00            | 9,00          | GD            |
| TB3          | 48,00                      | 62,00            | 9,00          | GD            |
| TC5Y         | 48,00                      | 62,00            | 9/24          |               |
| DCV          | 48,00                      | 62,00            | 10,00         |               |
| SA5          | 48,00                      | 62/69            | 10,00         | ND            |
| TCY          | 48,00                      | 62/63            | 13,00         | SS            |
| TB2          | 48,00                      | 63,00            | 9,00          | GD            |
| TB2          | 48,00                      | 63,50            | 10,00         | P9            |
| KC7          | 48,00                      | 64,00            | 8/13          |               |
| TB2          | 48,00                      | 64,00            | 12,00         | ND            |
| SCY          | 48,00                      | 65,00            | 7,9/11,1      |               |
| TBR          | 48,00                      | 65,00            | 8,00          | ND            |
| TC7Y         | 48,00                      | 65,00            | 8/13          | SS            |
| HTCL         | 48,00                      | 65,00            | 9,00          |               |
| TB           | 48,00                      | 65,00            | 9,00          | GD            |
| TB2          | 48,00                      | 65,00            | 9,00          | GD            |
| TC42         | 48,00                      | 65,00            | 9/10          |               |
| HTBCR        | 48,00                      | 65,00            | 10,00         | NDGR          |
| HTBR         | 48,00                      | 65,00            | 10,00         | GD            |
| HTCR         | 48,00                      | 65,00            | 10,00         |               |
| TC7Y         | 48,00                      | 65,00            | 10/15         |               |
| TA2          | 48,00                      | 65,00            | 12,00         | GD            |
| TBY          | 48,00                      | 66,00            | 13,00         |               |
| HTCWL        | 48,00                      | 66,65            | 10,00         |               |
| OVY          | 48,00                      | 67,00            | 4,50          |               |
| HTCR         | 48,00                      | 68,00            | 7,00          |               |
| HTCWR        | 48,00                      | 68,00            | 8,00          |               |
| HTBC         | 48,00                      | 68,00            | 9,00          | SSND          |
| TCWI         | 48,00                      | 68,00            | 10,00         |               |
| HTCR         | 48,00                      | 68,00            | 11,00         |               |
| TC42         | 48,00                      | 68,00            | 12,00         |               |
| TC5A         | 48,00                      | 68/110           | 13,00         | SS            |
| HTB2R        | 48,00                      | 69,00            | 10,00         | GD            |
| TB2          | 48,00                      | 69,00            | 10,00         | GD            |
| DC7Y         | 48,00                      | 70/78            | 9/17          | ND            |
| HTC3R        | 48,00                      | 70,00            | 9,00          | GR            |
| HTCR         | 48,00                      | 70,00            | 9,00          |               |
| TBC          | 48,00                      | 70,00            | 9,00          | ND            |
| TB2          | 48,00                      | 70,00            | 9,50          | GD            |
| TC3Y         | 48,00                      | 70,00            | 9,5/9,8       |               |
| HTCR         | 48,00                      | 70,00            | 10,00         |               |
| TC3          | 48,00                      | 70,00            | 10,00         |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTCL         | 48,00                      | 70,00            | 12,00         |               |
| HTCR         | 48,00                      | 70,00            | 12,00         |               |
| SB2          | 48,00                      | 70,00            | 12,00         | GD            |
| TB2          | 48,00                      | 70,00            | 12,00         | GD            |
| TB42         | 48,00                      | 70,00            | 12,00         | GD            |
| TC3          | 48,00                      | 70,00            | 12,00         |               |
| TB2          | 48,00                      | 70,00            | 13,00         | P9            |
| TB9Y         | 48,00                      | 70,00            | 13/19         | GD            |
| SCY          | 48,00                      | 72,00            | 6,5/9         |               |
| TB2          | 48,00                      | 72,00            | 7,00          | P2            |
| TC42         | 48,00                      | 72,00            | 7/9           |               |
| TCW          | 48,00                      | 72,00            | 8,00          | SS            |
| DC           | 48,00                      | 72,00            | 10,00         |               |
| DC           | 48,00                      | 72,00            | 11,00         |               |
| DC           | 48,00                      | 72,00            | 15,00         |               |
| TB2          | 48,00                      | 73,00            | 7,00          | GD            |
| HTC5YR       | 48,00                      | 73/79            | 11,5/14,5     | GR1           |
| SL16         | 48,00                      | 73,20            | 15,5/17       | GD            |
| TC7Y         | 48,00                      | 74,00            | 10/15         |               |
| TB2          | 48,00                      | 74,00            | 11,00         | GD            |
| TB2I         | 48,00                      | 75,00            | 8,00          | GD            |
| OVY          | 48,00                      | 76,00            | 4/7,7         |               |
| HTBRR        | 48,00                      | 79,00            | 18,00         | ND            |
| HTBR         | 48,00                      | 80,00            | 14,00         | GD            |
| SB2          | 48,00                      | 82,00            | 8,00          | GD            |
| HTB2R        | 48,00                      | 82,00            | 12,00         | GD            |
| TC9          | 48,00                      | 84,00            | 9/13,6        | SSGR          |
| SB2          | 48,00                      | 90,00            | 8,00          | GD            |
| KBY          | 48,00                      | 92,00            | 5,50          | ND            |
| TCI          | 48,00                      | 100,00           | 12,00         |               |
| TB5Y         | 48,00                      | 108,00           | 9,50          |               |
| TC3Y         | 48,00                      | 108,50           | 13,00         |               |
| TC3Y         | 48,00                      | 109,00           | 12,8/14       |               |
| TCI          | 48,00                      | 110,00           | 12,00         |               |
| Y            | 48,00                      | 110,00           | 13,00         |               |
| PS1          | 48,00                      | 150,00           | 5,5/31,5      | ND            |
| SBR          | 48,08                      | 61,82            | 6,40          | GD            |
| TBC57I       | 48,08                      | 71,4/77          | 11,90         | ND            |
| KC5Y         | 48,10                      | 57,68/64,75      | 8,70          | GR            |
| TB2          | 48,26                      | 62,97            | 8,90          | P2            |
| SB2          | 48,41                      | 76,20            | 12,70         | GD            |
| PSA1         | 48,41                      | 106,70           | 11,9/15,1     |               |
| PSX1         | 48,41                      | 106,70           | 11,9/15,1     |               |
| HKBCRJ       | 48,50                      | 69,70            | 10,00         |               |
| BE           | 48,56                      | 93,27/98,12      | 9,70          | ND            |
| TCWY         | 48,90                      | 63,00            | 10,8/12,8     |               |
| KB           | 49,00                      | 56,00            | 9,00          | GD            |
| VBY          | 49,00                      | 58,00            | 5,5/9         | ND            |
| OVY          | 49,00                      | 59,00            | 6,00          |               |
| HTCWR        | 49,00                      | 60,00            | 7,00          | SS            |
| TC4          | 49,00                      | 60,00            | 10,00         |               |
| XICY3        | 49,00                      | 60,5/64          | 6/14          | SS            |
| TB7I         | 49,00                      | 62,00            | 8/11          | SSND          |
| KB7          | 49,00                      | 62,50            | 8/13          | GD            |
| TBRP         | 49,00                      | 62,80            | 7,90          | SSP5          |
| XICY8        | 49,00                      | 63,3/67          | 4,5/11,5      | SS            |
| HTCR         | 49,00                      | 64,00            | 8,00          |               |
| HSB2         | 49,00                      | 70,00            | 9,00          | GD            |
| TB5Y         | 49,00                      | 70/77            | 9/12,5        | ND            |
| TBR          | 49,00                      | 72,00            | 8,60          | SSGD          |
| DCY          | 49,00                      | 73,00            | 15/20         |               |
| TC9          | 49,00                      | 75,00            | 11/12         | GR            |
| TBCW7R       | 49,00                      | 75,00            | 13/19         | NDGR          |
| TC9          | 49,00                      | 80,96            | 9,5/12,7      |               |
| TC9          | 49,00                      | 85,00            | 8/9,5         | GR            |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SCY          | 49,00                      | 99,80            | 8/9,5         |               |
| SCY1         | 49,00                      | 100,00           | 8/10,5        |               |
| SCY          | 49,00                      | 102,00           | 8/10          |               |
| SB           | 49,10                      | 68,25            | 12,70         | GD            |
| TB2          | 49,20                      | 61,90            | 6,40          | P0            |
| SA2          | 49,20                      | 63,50            | 9,50          | P0            |
| SL           | 49,21                      | 53,6/74,61       | 7/20,5        | GD            |
| TB           | 49,21                      | 57,15            | 12,70         | GD            |
| HTC          | 49,21                      | 61,12            | 8,70          |               |
| SB2          | 49,21                      | 61,91            | 6,40          | SSSGD         |
| TB           | 49,21                      | 62,74            | 8,00          | SSGD          |
| OVY1         | 49,21                      | 63,5/69,06       | 10,00         |               |
| KB5          | 49,21                      | 63,55/69         | 5,7/6,5       | P0            |
| KB5          | 49,21                      | 63,55/70         | 7,00          |               |
| SB           | 49,21                      | 63,55            | 9,50          | P0            |
| TB2          | 49,21                      | 63,55            | 9,50          | P0            |
| KB7          | 49,21                      | 66,57            | 6,4/14,5      | ND            |
| TB2          | 49,21                      | 66,62            | 7,90          | SSSGD         |
| SB5E         | 49,21                      | 67,34            | 9/9,6         | SSP2          |
| TB18         | 49,21                      | 67,95            | 6,40          | P5            |
| SB2          | 49,21                      | 68,22            | 7,70          | P5            |
| SB2Y         | 49,21                      | 68,22            | 7,70          | PORD          |
| TB2          | 49,21                      | 68,22            | 7,90          | SSGD          |
| TCI          | 49,21                      | 68,22            | 7,90          |               |
| DBC5         | 49,21                      | 68,22/74,22      | 12,70         | ND            |
| DBRY         | 49,21                      | 68,22            | 12,70         | ND            |
| SBR          | 49,21                      | 68,26            | 12,70         | ND            |
| TB2I         | 49,21                      | 68,26            | 12,70         | GD            |
| SB2          | 49,21                      | 69,85            | 7,90          | SSPORD        |
| TB2          | 49,21                      | 69,85            | 7,90          | GD            |
| DC           | 49,21                      | 69,85            | 9,50          |               |
| TB2          | 49,21                      | 69,85            | 9,50          | ND            |
| SA2          | 49,21                      | 73,03            | 7,90          | GD            |
| TB2          | 49,21                      | 73,25            | 7,90          | P5            |
| HTBSRY       | 49,21                      | 74/90            | 9,5/13,5      | P0            |
| TB2          | 49,21                      | 76,20            | 7,90          | P0            |
| TB2          | 49,21                      | 76,20            | 7,90          | ND            |
| TB2I         | 49,21                      | 76,20            | 9,50          | GD            |
| SBR          | 49,21                      | 76,20            | 12,70         | ND            |
| SBY          | 49,21                      | 77,39            | 11,10         | GD            |
| TB2          | 49,21                      | 77,75            | 9,50          | ND            |
| TBR          | 49,21                      | 77,79            | 12,70         | ND            |
| SA2          | 49,21                      | 95,25            | 12,70         | P0            |
| VA2          | 49,22                      | 63,55            | 7,10          | GD            |
| SB2          | 49,22                      | 65,09            | 7,90          | P5RD          |
| KCY          | 49,22                      | 68,02            | 3,50          |               |
| SB2          | 49,22                      | 79,38            | 12,70         | P2            |
| KB5          | 49,23                      | 65,48/72         | 7,40          | ND            |
| KCY          | 49,23                      | 68,02            | 8,80          |               |
| HTCR         | 49,23                      | 68,22            | 7,90          | SSGR          |
| SA2          | 49,23                      | 68,26            | 12,70         | P0            |
| SB2          | 49,23                      | 68,28            | 9,50          | GD            |
| SA2          | 49,23                      | 76,12            | 12,70         | P0            |
| SB2          | 49,23                      | 77,77            | 7,90          | P2            |
| SA2          | 49,23                      | 81,00            | 11,00         | P0            |
| HTBSYR       | 49,27                      | 73,88/91         | 13,20         | P5            |
| HTB2R        | 49,28                      | 70,15            | 12,70         | P0            |
| TB5          | 49,28                      | 71,45/78         | 10,90         | P0            |
| TBCW5        | 49,28                      | 73,66/78,61      | 10,20         | ND            |
| KB5          | 49,30                      | 63,5/68,2        | 7,00          |               |
| HKBCRJ       | 49,30                      | 69,70            | 11,20         | ND            |
| Y            | 49,50                      | 62,00            | 11,00         |               |
| HTB5R        | 49,53                      | 69,85/87,5       | 9,5/10,2      | SSP2          |
| TC45         | 49,60                      | 64/73            | 12,00         | GR            |
| TCSY         | 49,60                      | 73,03/80,5       | 10,50         | ND            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTBC7        | 49,92                      | 75,00            | 7,76/12,26    | NDGR          |
| KBL3         | 49,99                      | 64,81            | 6,40          | ND            |
| TC4          | 50,00                      | 57,00            | 5,00          | SS            |
| KB           | 50,00                      | 58,00            | 4,00          | GD            |
| KC           | 50,00                      | 59,00            | 4,00          |               |
| VAY          | 50,00                      | 60,00            | 4,00          | ND            |
| VB2          | 50,00                      | 60,00            | 5,00          | GD            |
| KC           | 50,00                      | 60,00            | 6,00          |               |
| DKI          | 50,00                      | 60,10            | 10,00         |               |
| XICY9        | 50,00                      | 60,4/64          | 6/13          | SS            |
| KB3          | 50,00                      | 62,00            | 5,00          | ND            |
| VBY          | 50,00                      | 62,00            | 5,00          | GD            |
| DKI          | 50,00                      | 62,00            | 7/10          | ND            |
| HTCL         | 50,00                      | 62,00            | 7,00          |               |
| SB           | 50,00                      | 62,00            | 7,00          | GD            |
| TC42         | 50,00                      | 62,00            | 7,00          | GR            |
| TB           | 50,00                      | 62,00            | 8,00          | GD            |
| TB           | 50,00                      | 62,00            | 9,00          | GD            |
| TB           | 50,00                      | 62,00            | 10,00         | GD            |
| KA7Y         | 50,00                      | 62,50            | 9/13,5        | ND            |
| TB           | 50,00                      | 63,00            | 6,00          | GD            |
| TB           | 50,00                      | 63,00            | 8,00          | GD            |
| DC4          | 50,00                      | 63,00            | 11,00         | SS            |
| VCK          | 50,00                      | 64,00            | 8,00          |               |
| SBY          | 50,00                      | 64,00            | 10/12,5       | GD            |
| TC3          | 50,00                      | 64,10            | 6,50          |               |
| VBY          | 50,00                      | 64,50            | 6,50          | ND            |
| HSBCWR       | 50,00                      | 65,00            | 7,00          | SSND          |
| TB7Y         | 50,00                      | 65,00            | 7/10          | SSND          |
| DC           | 50,00                      | 65,00            | 8,00          | SSGR          |
| DCJ          | 50,00                      | 65,00            | 8,00          | SS            |
| HTCR         | 50,00                      | 65,00            | 8,00          |               |
| HTCWL        | 50,00                      | 65,00            | 8,00          | SS            |
| KC           | 50,00                      | 65,00            | 8,00          | GRLF          |
| SB           | 50,00                      | 65,00            | 8,00          | GD            |
| SCI          | 50,00                      | 65,00            | 8,00          |               |
| SCT          | 50,00                      | 65,00            | 8,00          |               |
| SCY          | 50,00                      | 65,00            | 8,00          |               |
| TA2          | 50,00                      | 65,00            | 8,00          | P5            |
| TB           | 50,00                      | 65,00            | 8,00          | GD            |
| TCE          | 50,00                      | 65,00            | 8,00          | SSGR          |
| TCI          | 50,00                      | 65,00            | 8,00          |               |
| TB           | 50,00                      | 65,00            | 9,00          | GD            |
| KB7          | 50,00                      | 65,00            | 10/14         | GD            |
| SA2          | 50,00                      | 65,00            | 10,00         | GD            |
| TB           | 50,00                      | 65,00            | 10,00         | GD            |
| TC42IW       | 50,00                      | 65,00            | 10,00         |               |
| TC7W         | 50,00                      | 65,00            | 10/14         |               |
| UPH          | 50,00                      | 65,00            | 10,00         |               |
| BCW          | 50,00                      | 65,00            | 25,00         | ND            |
| HTC4W        | 50,00                      | 65,20            | 10,00         |               |
| TC42         | 50,00                      | 65,30            | 8,00          |               |
| HTCR         | 50,00                      | 66,00            | 8,00          |               |
| TB2          | 50,00                      | 66,50            | 9,50          | P0            |
| TC7Y         | 50,00                      | 66,50            | 13/16         |               |
| TB2          | 50,00                      | 66,62            | 7,90          | P0            |
| SCY          | 50,00                      | 66,68            | 7,00          | SS            |
| KCY          | 50,00                      | 67,00            | 5,5/7,5       |               |
| KB35         | 50,00                      | 67/79            | 8/14          | ND            |
| KC7Y         | 50,00                      | 67,00            | 9/13          |               |
| TB           | 50,00                      | 67,00            | 9,00          | GD            |
| TB2Y         | 50,00                      | 67,00            | 9,00          | GDRD          |
| KC3          | 50,00                      | 67,00            | 11,00         |               |
| SL           | 50,00                      | 67,00            | 13,50         | SUS316GD      |
| TAY          | 50,00                      | 67,50            | 13,5/8        | GD            |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br>Notes |
|--------------|-----------------------------------|----------------------------|-------------------------|---------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |               |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |               |
| TB2          | 50,00                             | 68,00                      | 7,00                    | GD            |
| TB7I         | 50,00                             | 68,00                      | 7/9                     | ND            |
| DC           | 50,00                             | 68,00                      | 8,00                    |               |
| TA2          | 50,00                             | 68,00                      | 8,00                    | GD            |
| HTB2R        | 50,00                             | 68,00                      | 9,00                    | GD            |
| HTC7L        | 50,00                             | 68,00                      | 9/15                    |               |
| HTCKR        | 50,00                             | 68,00                      | 9,00                    |               |
| HTCR         | 50,00                             | 68,00                      | 9,00                    |               |
| TA2          | 50,00                             | 68,00                      | 9,00                    | GD            |
| TB2          | 50,00                             | 68,00                      | 9,00                    | GD            |
| DCP          | 50,00                             | 68,00                      | 10,00                   | SS            |
| HTCWR        | 50,00                             | 68,00                      | 10,00                   |               |
| TC9          | 50,00                             | 68,00                      | 11,5/16                 |               |
| DCW          | 50,00                             | 68,00                      | 13,00                   |               |
| TCSF         | 50,00                             | 68,10                      | 6,50                    |               |
| TB2          | 50,00                             | 69,00                      | 10,00                   | ND            |
| KB7          | 50,00                             | 70,00                      | 6/10,5                  | GD            |
| TC7W         | 50,00                             | 70,00                      | 6/10,3                  |               |
| TA2          | 50,00                             | 70,00                      | 7,00                    | GD            |
| TB2          | 50,00                             | 70,00                      | 7/9                     | GD            |
| TBY          | 50,00                             | 70,00                      | 7/9,5                   | GD            |
| SA2          | 50,00                             | 70,00                      | 8,00                    | GD            |
| TB2I         | 50,00                             | 70,00                      | 8,00                    | GD            |
| HSB2         | 50,00                             | 70,00                      | 9,00                    | GD            |
| HSB5         | 50,00                             | 70/76                      | 9,00                    | PO            |
| SB2Y         | 50,00                             | 70,00                      | 9,00                    | GD            |
| TB2          | 50,00                             | 70,00                      | 9,00                    | GD            |
| TBR          | 50,00                             | 70,00                      | 9,00                    | GD            |
| TB357        | 50,00                             | 70/77                      | 9,5/17,5                | ND            |
| HTC7R        | 50,00                             | 70,00                      | 10/16                   |               |
| TAY          | 50,00                             | 70,00                      | 10/14,5                 | GD            |
| TB2          | 50,00                             | 70,00                      | 10,00                   | GD            |
| TBCY         | 50,00                             | 70,00                      | 10/13,5                 | ND            |
| HKBCWR       | 50,00                             | 70,00                      | 11,00                   | ND            |
| HTCAL        | 50,00                             | 70,00                      | 11,00                   |               |
| HTCL         | 50,00                             | 70,00                      | 11,00                   |               |
| TB2          | 50,00                             | 70,00                      | 12,00                   | GD            |
| TB           | 50,00                             | 70,00                      | 13,00                   | GD            |
| TAY          | 50,00                             | 70,00                      | 13,50                   | GD            |
| TB           | 50,00                             | 70,00                      | 13,50                   | GD            |
| HTBC16       | 50,00                             | 70,00                      | 16,00                   | NDGR          |
| KC6          | 50,00                             | 72,00                      | 5,50                    |               |
| SCW          | 50,00                             | 72,00                      | 8,00                    |               |
| TA2          | 50,00                             | 72,00                      | 8,00                    | P2            |
| TB2          | 50,00                             | 72,00                      | 8,00                    | ND            |
| TB2I         | 50,00                             | 72,00                      | 8,00                    | GD            |
| TC9          | 50,00                             | 72,00                      | 8/11                    | SS            |
| HTC7KR       | 50,00                             | 72,00                      | 9/14                    | SS            |
| HTCR         | 50,00                             | 72,00                      | 9,00                    |               |
| SB2          | 50,00                             | 72,00                      | 9,00                    | GD            |
| DB57         | 50,00                             | 72/80                      | 10/14                   | ND            |
| SCT          | 50,00                             | 72,00                      | 10,00                   |               |
| SCY          | 50,00                             | 72,00                      | 10,00                   |               |
| TB2          | 50,00                             | 72,00                      | 10,00                   | GD            |
| TCJ          | 50,00                             | 72,00                      | 10,00                   | SS            |
| DB4X         | 50,00                             | 72,00                      | 12,00                   | SSND          |
| DC           | 50,00                             | 72,00                      | 12,00                   |               |
| DC4X         | 50,00                             | 72,00                      | 12,00                   | SS            |
| HTCR         | 50,00                             | 72,00                      | 12,00                   |               |
| SB2          | 50,00                             | 72,00                      | 12,00                   | GD            |
| TB2          | 50,00                             | 72,00                      | 12,00                   | GD            |
| TB4          | 50,00                             | 72,00                      | 12,00                   | GD            |
| TC42         | 50,00                             | 72,00                      | 12,00                   |               |
| DC57         | 50,00                             | 72/80                      | 16,00                   | SS            |
| VB5Y         | 50,00                             | 72,23/78,5                 | 15,00                   |               |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br>Notes |
|--------------|-----------------------------------|----------------------------|-------------------------|---------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |               |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |               |
| TC7Y         | 50,00                             | 72,50                      | 12/19                   |               |
| VC7WY        | 50,00                             | 73,00                      | 6,8/11                  |               |
| VC7WY        | 50,00                             | 73,00                      | 6,8/11                  |               |
| TA2          | 50,00                             | 73,00                      | 9,00                    | GD            |
| SL           | 50,00                             | 73,00                      | 19,00                   | GDGR          |
| SA2          | 50,00                             | 73,03                      | 11,90                   | ND            |
| TCY          | 50,00                             | 73,05                      | 10,20                   |               |
| HTCL         | 50,00                             | 74,00                      | 12,00                   |               |
| TA2          | 50,00                             | 75,00                      | 9,00                    | GD            |
| TB           | 50,00                             | 75,00                      | 9,00                    | GD            |
| OKC          | 50,00                             | 75,00                      | 9,70                    |               |
| TB7Y         | 50,00                             | 75,00                      | 12/17                   | GD            |
| HTCI         | 50,00                             | 76,00                      | 10,00                   |               |
| TA2          | 50,00                             | 76,00                      | 13,00                   | P9            |
| TB7Y         | 50,00                             | 77,50                      | 9/13                    | GD            |
| KCY          | 50,00                             | 80,00                      | 5,00                    | SUS316        |
| TCI          | 50,00                             | 80,00                      | 6,00                    |               |
| SB2          | 50,00                             | 80,00                      | 8,00                    | GD            |
| TCI          | 50,00                             | 80,00                      | 8,00                    |               |
| SB2          | 50,00                             | 80,00                      | 10,00                   | GD            |
| TB2          | 50,00                             | 80,00                      | 10,00                   | GD            |
| TC7I         | 50,00                             | 80,00                      | 11/17,5                 |               |
| SA2          | 50,00                             | 80,00                      | 13,00                   | GD            |
| TB2          | 50,00                             | 80,00                      | 13,00                   | GD            |
| TC7I         | 50,00                             | 80,00                      | 16,5/23                 |               |
| TB2          | 50,00                             | 81,00                      | 13,00                   | GD            |
| TB7          | 50,00                             | 82,00                      | 8/11,5                  | GD            |
| HTCR         | 50,00                             | 82,00                      | 12,00                   |               |
| HTBC7R       | 50,00                             | 87,00                      | 11/18,2                 | ND            |
| TC42W        | 50,00                             | 90,00                      | 6/9                     |               |
| TC42W        | 50,00                             | 90,00                      | 6/9                     |               |
| SCF          | 50,00                             | 90,00                      | 10,00                   | SS            |
| TB2          | 50,00                             | 90,00                      | 10,00                   | GD            |
| TCJ          | 50,00                             | 90,00                      | 10,00                   | SS            |
| TA2          | 50,00                             | 90,00                      | 13,00                   | GD            |
| SCWR         | 50,00                             | 92,00                      | 12,00                   | SS            |
| DCWAR        | 50,00                             | 92/93                      | 14/16,5                 | SS            |
| SCWR         | 50,00                             | 93,00                      | 6,5/9                   | SS            |
| DA57Y        | 50,00                             | 93/99                      | 14/24                   |               |
| TC57         | 50,00                             | 100/106                    | 13,50                   | SS            |
| TCI          | 50,00                             | 120,00                     | 12,00                   |               |
| BE           | 50,01                             | 84,66                      | 4,75                    | ND            |
| TC42         | 50,30                             | 69,85                      | 7,60                    | GR            |
| SB2          | 50,37                             | 68,22                      | 7,90                    | P2            |
| KBL3         | 50,39                             | 59,08                      | 6,40                    | ND            |
| BE           | 50,40                             | 93,98/97,59                | 10,00                   | ND            |
| BE           | 50,55                             | 93,27/98,12                | 9,70                    | ND            |
| TBR          | 50,70                             | 84,96                      | 9,50                    | GD            |
| HSBSR        | 50,75                             | 73,1/80,4                  | 8,60                    | P0            |
| VB5          | 50,77                             | 58,67/64,5                 | 4,60                    |               |
| VBY          | 50,80                             | 59,00                      | 4/6,2                   | ND            |
| TB           | 50,80                             | 60,22                      | 6,40                    | P2            |
| TB           | 50,80                             | 60,33                      | 6,40                    | P2            |
| SBCY         | 50,80                             | 61,00                      | 6,20                    | ND            |
| TBR          | 50,80                             | 62,94                      | 14,30                   | P2            |
| TBR          | 50,80                             | 62,94                      | 14,30                   | P2            |
| SB2          | 50,80                             | 63,50                      | 6,40                    | P2            |
| UPH          | 50,80                             | 63,50                      | 9,50                    |               |
| UPH          | 50,80                             | 63,50                      | 9,50                    |               |
| SA2          | 50,80                             | 63,50                      | 11,90                   | P0            |
| SA2          | 50,80                             | 63,50                      | 12,70                   | ND            |
| TB2          | 50,80                             | 63,55                      | 6,40                    | P2            |
| SB2          | 50,80                             | 63,55                      | 7,90                    | P2            |
| TCY          | 50,80                             | 65,00                      | 9/9,5                   |               |
| KB18         | 50,80                             | 65,05                      | 6,40                    | P0            |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| VY           | 50,80                      | 65,08            | 1,46          |               |
| TCAT         | 50,80                      | 65,09            | 8,4/9         |               |
| VCY          | 50,80                      | 65,09            | 8,4/9         |               |
| DA           | 50,80                      | 65,09            | 9,50          | ND            |
| SBR          | 50,80                      | 65,09            | 13,40         | GD            |
| KB5          | 50,80                      | 65,1/70          | 5,6/6,4       | P0            |
| VB2          | 50,80                      | 65,10            | 5,80          | ND            |
| KB2          | 50,80                      | 65,25            | 9,50          | GD            |
| KB5          | 50,80                      | 66,62/71,7       | 6,4/7,2       | P0            |
| KBY          | 50,80                      | 66,62            | 6,4/15,1      | ND            |
| VB2Y         | 50,80                      | 66,62            | 6,40          | GD            |
| HTB2R        | 50,80                      | 66,62            | 7,90          | P0            |
| SA2          | 50,80                      | 66,62            | 7,90          | P2            |
| SB2          | 50,80                      | 66,62            | 7,90          | P2RD          |
| TB2          | 50,80                      | 66,62            | 7,90          | P2            |
| HTBCRR       | 50,80                      | 66,62            | 7,92          | SSND          |
| BO-2         | 50,80                      | 66,67            | 7,30          |               |
| KB2          | 50,80                      | 66,68            | 6,40          | GD            |
| VB2          | 50,80                      | 66,68            | 6,40          | NDRD          |
| VB21         | 50,80                      | 66,68            | 6,40          | ND            |
| VB2Y         | 50,80                      | 66,68            | 6,40          | ND            |
| TB2          | 50,80                      | 66,68            | 7,90          | ND            |
| HTBRR        | 50,80                      | 66,85            | 7,90          | ND            |
| VA5Y         | 50,80                      | 67,46/115,9      | 14,30         | ND            |
| VB21         | 50,80                      | 68,22            | 6,40          | ND            |
| TB2          | 50,80                      | 68,22            | 9,50          | P2            |
| TB2          | 50,80                      | 68,22            | 11,10         | P0            |
| SA2          | 50,80                      | 68,22            | 12,70         | ND            |
| TA2          | 50,80                      | 68,22            | 12,70         | GD            |
| TB2          | 50,80                      | 68,22            | 12,70         | P2            |
| SB2          | 50,80                      | 68,26            | 7,80          | P5            |
| OKB3         | 50,80                      | 68,5/88,9        | 7,40          |               |
| OV8          | 50,80                      | 69,09            | 5,30          | ND            |
| HTCSR        | 50,80                      | 69,65/76,2       | 7,5/8,9       | ND            |
| HSB5R        | 50,80                      | 69,67/76         | 7,90          | P4            |
| VBRY         | 50,80                      | 69,72            | 5,90          | ND            |
| HTBCSR       | 50,80                      | 69,72/76         | 7,90          | SSND          |
| HSBRR        | 50,80                      | 69,77            | 9,50          | ND            |
| VC21         | 50,80                      | 69,85            | 6,40          |               |
| HTCSR        | 50,80                      | 69,85/76,2       | 7,50          |               |
| TB2          | 50,80                      | 69,85            | 7,90          | P2            |
| HSBCSR       | 50,80                      | 69,85/76,2       | 8,25          | SSND          |
| DC           | 50,80                      | 69,85            | 9,50          |               |
| SBR          | 50,80                      | 69,85            | 9,50          | ND            |
| TCI          | 50,80                      | 69,85            | 9,50          |               |
| HTB2R        | 50,80                      | 69,85            | 9,90          | P2RD          |
| HTCR         | 50,80                      | 69,85            | 11,00         |               |
| HTB7R        | 50,80                      | 69,85            | 11,9/16,7     | P5            |
| TC4J         | 50,80                      | 69,85            | 12,50         |               |
| SA2          | 50,80                      | 69,85            | 12,70         | GD            |
| TC42Y        | 50,80                      | 69,85            | 12,7/15       |               |
| VB2          | 50,80                      | 69,90            | 4,80          | P2            |
| HTCKR        | 50,80                      | 70,00            | 11,00         |               |
| SA2          | 50,80                      | 71,95            | 11,90         | P0            |
| TB2          | 50,80                      | 73,03            | 7,90          | P0            |
| HTCWR        | 50,80                      | 73,03            | 8,60          | SS            |
| SA2          | 50,80                      | 73,03            | 11,90         | GD            |
| TA2          | 50,80                      | 73,03            | 11,90         | P0            |
| HTB2R        | 50,80                      | 73,15            | 9,50          | P2            |
| TB2          | 50,80                      | 73,15            | 9,50          | P0            |
| TB2          | 50,80                      | 73,41            | 14,30         | P2            |
| HTB59        | 50,80                      | 73,82/78,6       | 11,10         | SSP7          |
| VB5          | 50,80                      | 75,2/85          | 6,40          | ND            |
| HTB2L        | 50,80                      | 76,10            | 11,10         | PORD          |
| TA2          | 50,80                      | 76,10            | 12,70         | P2            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SA2          | 50,80                      | 76,12            | 9,50          | P5            |
| TB2          | 50,80                      | 76,12            | 11,10         | P2            |
| KA3Y         | 50,80                      | 76,20            | 5,00          | ND            |
| VAY          | 50,80                      | 76,20            | 5,00          | ND            |
| VAY          | 50,80                      | 76,20            | 6,40          | P0            |
| TB2          | 50,80                      | 76,20            | 7,90          | P5            |
| TB2          | 50,80                      | 76,20            | 12,70         | ND            |
| TA4          | 50,80                      | 76,20            | 18,30         |               |
| VB21         | 50,80                      | 77,75            | 6,40          | ND            |
| TB2          | 50,80                      | 77,75            | 9,50          | P2            |
| HSB5R        | 50,80                      | 79/87            | 9,50          | P0            |
| HTB5R        | 50,80                      | 79/87            | 9,50          | P0            |
| VBR          | 50,80                      | 79,96            | 6,40          | ND            |
| SB2          | 50,80                      | 80,00            | 9,50          | P2            |
| VAT          | 50,80                      | 80,96            | 11,10         | P0            |
| TB2          | 50,80                      | 81,00            | 9,50          | POHRD         |
| TB2          | 50,80                      | 82,93            | 11,20         | P2            |
| SA2          | 50,80                      | 90,00            | 11,10         | ND            |
| VBRY         | 50,80                      | 90,00            | 11,10         | ND            |
| VB21         | 50,80                      | 92,08            | 6,40          | ND            |
| TB2          | 50,80                      | 95,25            | 11,20         | P2            |
| TB21         | 50,80                      | 95,25            | 12,70         | GD            |
| TB2          | 50,80                      | 101,60           | 11,10         | ND            |
| SA2          | 50,80                      | 101,68           | 11,10         | P5            |
| HTBCR        | 50,93                      | 73,10            | 9,50          | SSND          |
| KBC          | 51,00                      | 60,00            | 5,90          | NDGR          |
| SB           | 51,00                      | 62,00            | 7,00          | GD            |
| KB           | 51,00                      | 63,00            | 6,00          | GD            |
| KBR          | 51,00                      | 63,00            | 6/9           | GD            |
| TB2          | 51,00                      | 63,00            | 8,00          | ND            |
| KBR          | 51,00                      | 63,00            | 8,5/5,5       | NDLF          |
| HTBCWR       | 51,00                      | 65,00            | 7,00          | NDGR          |
| HTCWR        | 51,00                      | 65,00            | 7,00          | SS            |
| TBR          | 51,00                      | 65,00            | 7,00          | GD            |
| SBY          | 51,00                      | 65,00            | 9,00          | GD            |
| TB7R         | 51,00                      | 66,00            | 7,5/10,5      | GD            |
| OVY          | 51,00                      | 71,00            | 7,50          |               |
| OVA          | 51,00                      | 72,00            | 9,00          |               |
| HSBE         | 51,00                      | 72,00            | 9,50          | GD            |
| TB2          | 51,00                      | 72,00            | 10,00         | GD            |
| TB7R         | 51,00                      | 73,00            | 8/12          | GD            |
| KB2          | 51,05                      | 67,31            | 9,20          | ND            |
| SC5AY        | 51,49                      | 70,36/75,24      | 9,40          | SS            |
| SC5Y         | 51,49                      | 70,36/75,24      | 9,40          | SS            |
| SC5Y         | 51,50                      | 76,85            | 10,50         | SS            |
| HTBC9R       | 51,50                      | 84,54            | 10,00         | ND            |
| BE           | 51,74                      | 93,27/98,22      | 9,70          | ND            |
| HTCR         | 51,81                      | 67,71            | 7,92          | SS            |
| SL5          | 52,00                      | 57/79            | 17,2/19       | GD            |
| VBY          | 52,00                      | 62,00            | 5/9,5         | GD            |
| OKC          | 52,00                      | 62,00            | 5,50          |               |
| TB2          | 52,00                      | 62,00            | 9,00          | GD            |
| BO-2         | 52,00                      | 63,00            | 4,45/4,95     | ND            |
| TB2          | 52,00                      | 63,00            | 8,00          | ND            |
| TBR          | 52,00                      | 63,00            | 9/9,3         | GD            |
| TBR          | 52,00                      | 64,00            | 9,00          | GD            |
| HSBCWR       | 52,00                      | 65,00            | 7,00          | ND            |
| SBY          | 52,00                      | 65,00            | 9,00          | GD            |
| TB           | 52,00                      | 65,00            | 9,00          | GD            |
| HTCR         | 52,00                      | 66,00            | 7,00          |               |
| TB7R         | 52,00                      | 66,00            | 7,5/12        | GD            |
| TB7R         | 52,00                      | 66,00            | 8/10          | ND            |
| HTCR         | 52,00                      | 67,00            | 7,00          |               |
| OTY          | 52,00                      | 67,00            | 7/8,5         | SS            |
| SCY          | 52,00                      | 67,00            | 8,70          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |               | Note<br>Notes |
|--------------|----------------------------|---------------------|---------------|---------------|
|              | Diametro Diameter          |                     | Altezza Width |               |
|              | Interno<br>Internal        | Esterno<br>External |               |               |
| VB2          | 52,00                      | 68,00               | 6,00          | ND            |
| TB5Y         | 52,00                      | 68/73               | 6,5/12        | ND            |
| KB7          | 52,00                      | 68,00               | 7/13          | GD            |
| KB7Y         | 52,00                      | 68,00               | 7/13          | GD            |
| KC7          | 52,00                      | 68,00               | 7/13          |               |
| TB7R         | 52,00                      | 68,00               | 7,5/12        | GD            |
| HTBCL        | 52,00                      | 68,00               | 8,00          | ND            |
| HTCWL        | 52,00                      | 68,00               | 8,00          | SS            |
| TB2          | 52,00                      | 68,00               | 8,00          | GD            |
| TB7R         | 52,00                      | 68,00               | 8/14          | GD            |
| TCW          | 52,00                      | 68,00               | 8,00          | SSLF          |
| HTCWR        | 52,00                      | 68,00               | 10,00         |               |
| TCW          | 52,00                      | 68,00               | 10,00         |               |
| TC3          | 52,00                      | 68,00               | 13,00         |               |
| TCY          | 52,00                      | 68/69               | 13,00         |               |
| TB2          | 52,00                      | 68,00               | 13,50         | ND            |
| KB7          | 52,00                      | 69,27               | 14,98         | ND            |
| OTC          | 52,00                      | 70,00               | 7,50          |               |
| HTCR         | 52,00                      | 70,00               | 8,50          |               |
| HTB7L        | 52,00                      | 70,00               | 9/15          | GD            |
| SB2          | 52,00                      | 70,00               | 9,00          | GD            |
| TB2          | 52,00                      | 70,00               | 9,00          | GD            |
| TBC          | 52,00                      | 70,00               | 9,00          | ND            |
| TBR          | 52,00                      | 70,00               | 9,00          | ND            |
| TB2          | 52,00                      | 70,00               | 10,00         | GD            |
| TBR          | 52,00                      | 70,00               | 10,00         | GD            |
| HTC7R        | 52,00                      | 70,50               | 8,5/12,5      | GR            |
| TB2          | 52,00                      | 72,00               | 7,00          | GD            |
| TB2          | 52,00                      | 72,00               | 8,00          | GD            |
| TB7          | 52,00                      | 72,00               | 8/11          | ND            |
| HTCI         | 52,00                      | 72,00               | 10,00         |               |
| TB2          | 52,00                      | 72,00               | 10,00         | GD            |
| SA2          | 52,00                      | 72,00               | 12,00         | GD            |
| TB2          | 52,00                      | 72,00               | 12,00         | GD            |
| TB2          | 52,00                      | 73,00               | 10,00         | GD            |
| TB42         | 52,00                      | 75,00               | 7,50          | ND            |
| TB7Y         | 52,00                      | 75,00               | 7,5/12        | GD            |
| SCW          | 52,00                      | 75,00               | 10,00         | SSLF          |
| DC           | 52,00                      | 75,00               | 12,00         |               |
| HTCL         | 52,00                      | 75,00               | 12,00         |               |
| HTCR         | 52,00                      | 75,00               | 12,00         |               |
| SB2          | 52,00                      | 75,00               | 12,00         | GD            |
| TB2          | 52,00                      | 75,00               | 12,00         | GD            |
| DCY          | 52,00                      | 75,00               | 14/20,5       |               |
| TC9Y         | 52,00                      | 75/85               | 14,00         | SSGR          |
| TBC16        | 52,00                      | 75,00               | 16,00         | NDGR          |
| TB42Y        | 52,00                      | 76,00               | 11/12         | GDGR          |
| OKB          | 52,00                      | 77,00               | 9,00          |               |
| OSC          | 52,00                      | 80,00               | 13,00         |               |
| TB2V         | 52,00                      | 80,00               | 13,00         | ND            |
| TB2          | 52,00                      | 82,00               | 8,00          | GD            |
| HTBR         | 52,00                      | 84,00               | 14,00         | GD            |
| HTCWR        | 52,00                      | 85,00               | 7/11          |               |
| Y            | 52,00                      | 85,00               | 16,00         |               |
| KC           | 52,00                      | 90,00               | 8,00          |               |
| SCY          | 52,00                      | 94,00               | 9,5/12        | ND            |
| SCW          | 52,00                      | 100,00              | 10,00         | SSLF          |
| HTC57R       | 52,00                      | 100/108             | 15/21         |               |
| TC5          | 52,00                      | 100/108             | 15,00         |               |
| OSBY         | 52,00                      | 100,50              | 9,00          |               |
| SCY          | 52,00                      | 112,00              | 10,5/16       |               |
| VB21         | 52,38                      | 76,20               | 7,90          | GD            |
| S4           | 52,38                      | 82,55               | 7,40          |               |
| SA2          | 52,39                      | 69,85               | 12,70         | GD            |
| SA2          | 52,39                      | 72,19               | 11,40         | P0            |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br>Notes |
|--------------|-----------------------------------|----------------------------|-------------------------|---------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |               |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |               |
| OKBL3        | 52,39                             | 74,61                      | 8,70                    |               |
| SB2          | 52,39                             | 76,20                      | 7,90                    | GD            |
| VB2          | 52,39                             | 76,20                      | 7,90                    | ND            |
| HTBRY        | 52,39                             | 76,20                      | 9,5/15,1                | GD            |
| TB2          | 52,39                             | 76,20                      | 9,50                    | P0            |
| TB42         | 52,39                             | 76,20                      | 9,5/12,7                | SSP0          |
| KAL3         | 52,39                             | 80,01                      | 6,80                    | ND            |
| KBRY         | 52,39                             | 80,04                      | 6,10                    | ND            |
| SA2          | 52,39                             | 81,00                      | 11,10                   | P0            |
| SA2          | 52,39                             | 82,58                      | 12,70                   | P0            |
| SA2          | 52,39                             | 82,58                      | 12,70                   | P2            |
| SA2          | 52,39                             | 85,62                      | 11,90                   | P5            |
| TC40         | 52,40                             | 66,68                      | 12,70                   | SS            |
| SLY          | 53,00                             | 59/78,5                    | 8,5/10                  |               |
| VBY          | 53,00                             | 60,00                      | 4/6                     | ND            |
| TB           | 53,00                             | 65,00                      | 13,00                   | GD            |
| KC           | 53,00                             | 66,20                      | 7,00                    |               |
| TCSF         | 53,00                             | 67,00                      | 8,00                    |               |
| HSB2L        | 53,00                             | 68,00                      | 10,00                   | ND            |
| HSB2R        | 53,00                             | 68,00                      | 10,00                   | ND            |
| KC           | 53,00                             | 68,20                      | 7,00                    |               |
| TAYSF        | 53,00                             | 69/81,5                    | 5/15,5                  | ND            |
| TB5Y         | 53,00                             | 69/86                      | 9/16                    | SSND          |
| TAY          | 53,00                             | 69/86                      | 16,00                   | ND            |
| HTCKR        | 53,00                             | 69,85                      | 11,00                   |               |
| TBI          | 53,00                             | 71,00                      | 11,50                   | GD            |
| TBC57        | 53,00                             | 74/84                      | 12/14                   | SSND          |
| SA2          | 53,00                             | 75,00                      | 12,00                   | GD            |
| SC5YI        | 53,00                             | 79,00                      | 10,00                   |               |
| VB18         | 53,18                             | 69,05                      | 9,10                    | ND            |
| VB18         | 53,34                             | 69,02                      | 9,10                    | P2            |
| Y            | 53,50                             | 79,00                      | 9,00                    |               |
| VBR          | 53,50                             | 79,10                      | 4,00                    | ND            |
| SBR          | 53,50                             | 79,10                      | 7,00                    | ND            |
| SAY          | 53,50                             | 81,00                      | 11,90                   | GD            |
| TB           | 53,98                             | 65,05                      | 12,50                   | P0            |
| VBY          | 53,98                             | 69,85/78                   | 6,4/11,9                |               |
| TB2          | 53,98                             | 69,85                      | 7,90                    | P0            |
| TB2          | 53,98                             | 69,85                      | 9,50                    | P0            |
| TB2          | 53,98                             | 69,85                      | 11,10                   | P2            |
| TB2          | 53,98                             | 69,85                      | 12,70                   | P2            |
| TCEJ         | 53,98                             | 70,00                      | 9,50                    | SS            |
| TB           | 53,98                             | 70,05                      | 11,10                   | P0            |
| SB2          | 53,98                             | 70,18                      | 6,40                    | P5            |
| HTBC57       | 53,98                             | 70,18/82                   | 12,70                   | SSND          |
| SBR          | 53,98                             | 71,50                      | 7,20                    | ND            |
| KBRY         | 53,98                             | 73,03                      | 7,60                    | ND            |
| SB2          | 53,98                             | 73,03                      | 9,50                    | GD            |
| SBR          | 53,98                             | 73,03                      | 9,50                    | ND            |
| TB2          | 53,98                             | 73,03                      | 9,50                    | P0            |
| SAVT         | 53,98                             | 73,03                      | 10,30                   | GD            |
| DBC5         | 53,98                             | 73,03/80                   | 11,10                   | ND            |
| HTCL         | 53,98                             | 73,03                      | 11,10                   | GR            |
| HTCYL        | 53,98                             | 73,03                      | 11,1/12,7               |               |
| HTCYR        | 53,98                             | 73,03                      | 11,1/12,7               |               |
| SA2          | 53,98                             | 73,03                      | 11,10                   | GD            |
| SB2          | 53,98                             | 73,03                      | 11,10                   | GD            |
| TA2          | 53,98                             | 73,03                      | 11,10                   | ND            |
| TB2          | 53,98                             | 73,03                      | 11,10                   | GD            |
| HTB2R        | 53,98                             | 73,15                      | 11,10                   | P2            |
| HTB5L        | 53,98                             | 73,15/81                   | 14,00                   | P0            |
| VB2          | 53,98                             | 73,43                      | 6,40                    | ND            |
| TBC57        | 53,98                             | 73,90                      | 12,20                   | SSNDGR        |
| SA2          | 53,98                             | 76,10                      | 11,10                   | GD            |
| TA2          | 53,98                             | 76,12                      | 12,70                   | P2            |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  | Note<br>Notes |
|--------------|----------------------------|----------------------|------------------|---------------|
|              | Diametro<br>Internal       | Diameter<br>External | Altezza<br>Width |               |
| DC           | 55,55                      | 73,00                | 8,00             | SSGR          |
| TB2          | 55,55                      | 92,02                | 11,90            | PO            |
| KB13         | 55,56                      | 71,33                | 3,20             | ND            |
| SB2          | 55,56                      | 71,33                | 9,00             | ND            |
| TA2          | 55,56                      | 73,03                | 9,50             | PO            |
| TA42         | 55,56                      | 73,03                | 12,70            |               |
| TA2          | 55,56                      | 76,10                | 11,10            | ND            |
| TB2          | 55,56                      | 76,20                | 9,50             | P2            |
| KB18         | 55,56                      | 76,20                | 12,70            | PORD          |
| TB2          | 55,56                      | 77,80                | 9,50             | PO            |
| SAY          | 55,56                      | 80,96                | 12,7/17,5        | ND            |
| TB2          | 55,56                      | 84,14                | 9,50             | SSP5          |
| KBY          | 55,85                      | 71,22                | 7,60             | NDRD          |
| HTA5LY       | 55,88                      | 76,75/85             | 10,7/39          | PO            |
| HTB5LY       | 55,88                      | 76,75/85             | 10,7/17          | PO            |
| Y            | 55,88                      | 76,75                | 38,20            |               |
| HTBSR        | 55,90                      | 89,35/101            | 15,10            | PO            |
| VBY          | 55,91                      | 69,47                | 4,8/9,9          | PO            |
| VAY          | 55,91                      | 69,47/77,7           | 5/9,3            | PO            |
| VBY          | 55,91                      | 69,47/77,7           | 5/9,3            | PO            |
| SCSY         | 56,00                      | 66/73                | 11,1/17,5        |               |
| KB57         | 56,00                      | 68/74                | 4,5/11           | ND            |
| KCSY         | 56,00                      | 69/76                | 7,5/18           |               |
| HSCLY        | 56,00                      | 69/70,4              | 10,00            |               |
| SB2Y         | 56,00                      | 70,00                | 8,50             | GD            |
| SCYSF        | 56,00                      | 72,00                | 8/9              |               |
| TB5Y         | 56,00                      | 72/77                | 8/10,5           | ND            |
| KB7          | 56,00                      | 72,00                | 10/14            | GD            |
| TB5          | 56,00                      | 72/76                | 10,00            | P7            |
| TB7R         | 56,00                      | 72,00                | 11/18            | GD            |
| TCI          | 56,00                      | 72,00                | 11,50            |               |
| TCY          | 56,00                      | 72,00                | 12,50            |               |
| TC42         | 56,00                      | 72,30                | 7,50             | GR            |
| TC4Y         | 56,00                      | 72,30                | 8,00             |               |
| TC7          | 56,00                      | 72,30                | 8/12             |               |
| TB2          | 56,00                      | 73,00                | 6,00             | GD            |
| TB77         | 56,00                      | 73/78                | 7,5/14           | ND            |
| TB77         | 56,00                      | 73/78                | 7,5/15           | ND            |
| TB77         | 56,00                      | 73/88,3              | 7,5/22           | ND            |
| TB7R         | 56,00                      | 73,00                | 8/12             | GD            |
| TB2          | 56,00                      | 73,15                | 10,00            | GD            |
| TB357        | 56,00                      | 74/78                | 6,5/10,5         | ND            |
| TB357        | 56,00                      | 74/83                | 10/13,5          | SSND          |
| TB5Y         | 56,00                      | 74,2/78,5            | 8/10,5           | ND            |
| TCY          | 56,00                      | 75,00                | 6,5/11           |               |
| SB2          | 56,00                      | 75,00                | 8,00             | GD            |
| TB7R         | 56,00                      | 75,00                | 8/12             | GD            |
| TB77         | 56,00                      | 75,00                | 8,5/17,5         | ND            |
| TB77         | 56,00                      | 76/81,5              | 6/12             | P5            |
| TB5Y         | 56,00                      | 76/80                | 6,3/12,3         | ND            |
| TB7          | 56,00                      | 78,00                | 7,5/13           | ND            |
| SL16         | 56,00                      | 78,00                | 13,00            | SSGDGR        |
| TC7          | 56,00                      | 79,35                | 14/21,5          |               |
| TB2I         | 56,00                      | 80,00                | 8,00             | GD            |
| TB2          | 56,00                      | 81,00                | 8,00             | GD            |
| OV           | 56,00                      | 98,50                | 7,00             |               |
| TA7Y         | 56,00                      | 99,00                | 10/34,5          | PO            |
| OV           | 56,00                      | 99,4/102             | 8,00             |               |
| OV           | 56,00                      | 99,4/101             | 8,00             |               |
| SCY          | 56,00                      | 114,00               | 10,00            |               |
| SCY          | 56,00                      | 122,00               | 8/10,5           |               |
| HSA2R        | 56,20                      | 85,73                | 9,50             | SSP5          |
| HSB5I        | 56,36                      | 68,8/73,5            | 6,40             | POGR          |
| KB13         | 56,74                      | 65,43                | 6,40             | ND            |
| HTBR         | 56,90                      | 81,03                | 11,40            | PO            |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note   |  |
|--------------|----------------------------|------------------|---------------|--------|--|
|              | Diametro Diameter          |                  | Altezza Width |        |  |
|              | Interno Internal           | Esterno External |               |        |  |
| BU           | 57,00                      | 62,00            | 14,50         | GD     |  |
| TBR          | 57,00                      | 67,00            | 6,00          | ND     |  |
| HSB2I        | 57,00                      | 70,00            | 7,50          | GD     |  |
| TBC          | 57,00                      | 71,00            | 9,00          | NDGR   |  |
| TBR          | 57,00                      | 72,00            | 8,40          | ND     |  |
| VCY          | 57,00                      | 73,00            | 5/8,5         |        |  |
| OSC          | 57,00                      | 73,00            | 7,00          |        |  |
| HTCWL        | 57,00                      | 73,00            | 8,00          | SS     |  |
| TB5Y         | 57,00                      | 74/83            | 10/13         | ND     |  |
| TB7R         | 57,00                      | 75,00            | 7,5/11,5      | GD     |  |
| HTCL         | 57,00                      | 77,00            | 10,00         |        |  |
| TB57Y        | 57,00                      | 79/85            | 9/13,5        | ND     |  |
| TB5Y         | 57,00                      | 80/85            | 8/10,2        | SS     |  |
| TB7          | 57,00                      | 81,00            | 8/11,5        | GD     |  |
| TB2          | 57,00                      | 82,50            | 12,00         | GD     |  |
| TB2          | 57,00                      | 84,00            | 8,00          | GD     |  |
| SB7          | 57,00                      | 84,00            | 13,00         | P5     |  |
| TB2Y         | 57,00                      | 85,00            | 12,00         | ND     |  |
| TC6          | 57,00                      | 85,00            | 16,00         | SS     |  |
| TC3Y         | 57,00                      | 123,00           | 11/21,5       |        |  |
| HTC3Y        | 57,00                      | 123,00           | 15/30         |        |  |
| TC3Y         | 57,00                      | 124,00           | 14,00         |        |  |
| SCY          | 57,00                      | 125,00           | 8/13,6        |        |  |
| VB5          | 57,12                      | 65,15/70,7       | 4,20          |        |  |
| KBC          | 57,12                      | 70,01            | 5,90          | ND     |  |
| OU           | 57,12                      | 81,30            | 9,78          | ND     |  |
| TBC42        | 57,13                      | 76,10            | 11,80         | SSND   |  |
| VB2          | 57,15                      | 66,68            | 4,80          | ND     |  |
| TA2          | 57,15                      | 67,95            | 13,70         | PO     |  |
| HSB2         | 57,15                      | 70,00            | 8,70          | SSPO   |  |
| HSB2         | 57,15                      | 70,01            | 8,70          | PORD   |  |
| SL           | 57,15                      | 72,50            | 18,20         | GDGR   |  |
| VB21         | 57,15                      | 73,03            | 6,40          | ND     |  |
| VBR          | 57,15                      | 73,03            | 6,40          | ND     |  |
| TB           | 57,15                      | 73,03            | 7,90          | GD     |  |
| TB2          | 57,15                      | 73,41            | 14,30         | P5RD   |  |
| TBYI         | 57,15                      | 73,41            | 14,30         | P5RD   |  |
| TCT          | 57,15                      | 74,61            | 8,4/9,1       |        |  |
| TCY          | 57,15                      | 74,61            | 8,4/9,1       |        |  |
| TBI          | 57,15                      | 74,61            | 12,70         | GD     |  |
| SL           | 57,15                      | 76,00            | 13,70         | GD     |  |
| SB2          | 57,15                      | 76,10            | 11,10         | PO     |  |
| TB2          | 57,15                      | 76,10            | 11,10         | GD     |  |
| TA2          | 57,15                      | 76,12            | 11,10         | PO     |  |
| SAFE         | 57,15                      | 76,12            | 19,05         | ND     |  |
| VAY          | 57,15                      | 76,20            | 6,40          | ND     |  |
| HSB2R        | 57,15                      | 76,20            | 7,90          | P5RD   |  |
| TCY          | 57,15                      | 76,20            | 7,9/11,1      |        |  |
| HTB2R        | 57,15                      | 76,20            | 8,50          | SSNDRO |  |
| DC           | 57,15                      | 76,20            | 9,50          | SS     |  |
| SB           | 57,15                      | 76,20            | 9,50          | PO     |  |
| SB2          | 57,15                      | 76,20            | 9,50          | SSND   |  |
| TB2          | 57,15                      | 76,20            | 9,50          | ND     |  |
| TB2          | 57,15                      | 76,20            | 9,50          | SSNDRO |  |
| TB2I         | 57,15                      | 76,20            | 9,50          | GD     |  |
| TC3          | 57,15                      | 76,20            | 9,50          | GR     |  |
| SA2          | 57,15                      | 76,20            | 11,10         | P2     |  |
| TB           | 57,15                      | 76,20            | 11,10         | GD     |  |
| HTCI         | 57,15                      | 76,20            | 12,70         |        |  |
| SA2          | 57,15                      | 76,20            | 12,70         | PO     |  |
| TA2          | 57,15                      | 76,20            | 12,70         | PO     |  |
| TB2          | 57,15                      | 76,20            | 12,70         | GD     |  |
| VB21         | 57,15                      | 77,75            | 6,40          | ND     |  |
| SB2          | 57,15                      | 77,75            | 9,50          | ND     |  |
| TA2          | 57,15                      | 77,75            | 11,10         | P2     |  |
| TB2          | 57,15                      | 77,78            | 9,50          | PO     |  |
| TB2          | 57,15                      | 77,79            | 11,10         | GD     |  |
| TA2          | 57,15                      | 79,38            | 9,50          | P2     |  |
| TB2          | 57,15                      | 79,38            | 9,50          | PO     |  |
| HVBXL        | 57,15                      | 79,50            | 11,50         | ND     |  |
| TA2          | 57,15                      | 80,90            | 11,10         | PO     |  |
| TB2I         | 57,15                      | 80,96            | 9,50          | GD     |  |
| TB2          | 57,15                      | 81,00            | 11,10         | PO     |  |
| TCY          | 57,15                      | 81,76            | 7/12          |        |  |
| VB21         | 57,15                      | 82,55            | 6,40          | ND     |  |
| TB2          | 57,15                      | 82,55            | 9,50          | GD     |  |
| SCE          | 57,15                      | 82,55            | 12,70         |        |  |
| TB2I         | 57,15                      | 82,55            | 12,70         | GD     |  |
| SA2          | 57,15                      | 82,58            | 11,10         | ND     |  |
| SA2          | 57,15                      | 82,58            | 12,70         | P2     |  |
| HTCSAL       | 57,15                      | 82,6/87          | 13,00         |        |  |
| HTCSWL       | 57,15                      | 82,6/87          | 13,00         |        |  |
| SLS          | 57,15                      | 83,00            | 16,00         | GD     |  |
| KB2Y         | 57,15                      | 85,00            | 3,5/4,5       | ND     |  |
| SA2          | 57,15                      | 85,09            | 7,90          | PO     |  |
| SB2          | 57,15                      | 85,09            | 11,90         | ND     |  |
| HTSA2R       | 57,15                      | 85,62            | 9,50          | SSP5   |  |
| TA2          | 57,15                      | 85,62            | 9,50          | PO     |  |
| VB2          | 57,15                      | 85,62            | 9,50          | GD     |  |
| TA2          | 57,15                      | 85,62            | 11,10         | ND     |  |
| TB2          | 57,15                      | 85,73            | 11,10         | GD     |  |
| SA2          | 57,15                      | 85,73            | 11,20         | PO     |  |
| TB2I         | 57,15                      | 85,73            | 12,70         | GD     |  |
| VB5Y         | 57,15                      | 88/100           | 5,80          | NDGR   |  |
| TA2          | 57,15                      | 88,90            | 11,10         | GD     |  |
| TA2          | 57,15                      | 88,90            | 12,70         | GD     |  |
| TB2          | 57,15                      | 88,90            | 12,70         | GD     |  |
| TB2          | 57,15                      | 88,90            | 12,70         | PO     |  |
| TA2          | 57,15                      | 90,00            | 12,70         | PO     |  |
| TA2          | 57,15                      | 92,02            | 11,90         | PO     |  |
| TB2          | 57,15                      | 92,02            | 11,90         | PO     |  |
| HTASY        | 57,15                      | 92,05/102        | 13,5/2,9      | NDGR   |  |
| HTCSI        | 57,15                      | 92,05/102        | 13,50         | NDGR   |  |
| TB2          | 57,15                      | 95,25            | 12,70         | GD     |  |
| VB2          | 57,15                      | 95,25            | 15,90         | ND     |  |
| TA2          | 57,15                      | 95,28            | 12,70         | PO     |  |
| SA2          | 57,15                      | 98,43            | 11,10         | ND     |  |
| TCW          | 57,20                      | 76,20            | 8,00          | SSGR   |  |
| TA2          | 57,20                      | 92,00            | 18,00         | GD     |  |
| SB2          | 57,25                      | 70,00            | 8,64          | SSP5   |  |
| VAY          | 57,28                      | 84,12            | 9,70          | ND     |  |
| VBRX         | 57,28                      | 84,13            | 9,70          | ND     |  |
| TCWI         | 57,48                      | 73,97            | 7,80          | SS     |  |
| SCW          | 57,55                      | 81,99            | 10,32         | SS     |  |
| SCWA         | 57,55                      | 81,99            | 10,32/15,16   | SS     |  |
| HTBCSL       | 57,84                      | 84,5/96,5        | 11/13,5       | ND     |  |
| VAY          | 57,93                      | 80,11            | 9,50          | ND     |  |
| HTBCI        | 57,94                      | 81,36            | 12,70         | NDGR   |  |
| TA2          | 57,94                      | 82,55            | 12,70         | GD     |  |
| TB2          | 58,00                      | 68,00            | 6,00          | GD     |  |
| TB           | 58,00                      | 68,00            | 9,00          | GD     |  |
| HTCL         | 58,00                      | 70,00            | 7,80          |        |  |
| TB           | 58,00                      | 70,00            | 9,00          | GDGR   |  |
| HTB2R        | 58,00                      | 72,00            | 7,00          | GD     |  |
| TCI          | 58,00                      | 72,00            | 8,00          |        |  |
| TCW          | 58,00                      | 72,00            | 8,00          | SSLF   |  |
| TCW          | 58,00                      | 72,00            | 8/9,5         | SSLF   |  |
| TCW          | 58,00                      | 72,00            | 8,00          | GR     |  |
| TCWJ         | 58,00                      | 72,00            | 8,00          | SS     |  |
| HTCR         | 58,00                      | 72,00            | 9,00          |        |  |
| HTCI         | 58,00                      | 72,00            | 10,00         |        |  |
| TA3Y         | 58,00                      | 73,00            | 8/11          | PO     |  |
| TB357        | 58,00                      | 73/78            | 8/12,9        | ND     |  |
| TB           | 58,00                      | 73,15            | 10,00         | GD     |  |
| HTCL         | 58,00                      | 74,00            | 10,00         |        |  |
| DCY          | 58,00                      | 74,00            | 13/16         |        |  |
| SCY          | 58,00                      | 75,00            | 7/12          |        |  |
| SCY          | 58,00                      | 75,00            | 7/11,5        |        |  |
| TC7Y         | 58,00                      | 75,00            | 7,5/10,5      | SS     |  |
| TCYA         | 58,00                      | 75,00            | 7,5/10,5      | SS     |  |
| HTC7R        | 58,00                      | 75,00            | 9/14,5        |        |  |
| TB           | 58,00                      | 75,00            | 9,00          | GD     |  |
| TBR          | 58,00                      | 75,00            | 9,00          | GD     |  |
| TA2          | 58,00                      | 75,00            | 12,00         | GD     |  |
| TB           | 58,00                      | 75,00            | 15,00         | GD     |  |
| TBCW         | 58,00                      | 75,00            | 15,5/7        | ND     |  |
| TB7          | 58,00                      | 76,00            | 6,6/9,5       | ND     |  |
| TC7Y         | 58,00                      | 76,00            | 7,8/16        | SS     |  |
| HTBR         | 58,00                      | 76,00            | 10,00         | ND     |  |
| SCY          | 58,00                      | 77,00            | 8,50          |        |  |
| DCW          | 58,00                      | 77,70            | 10,00         |        |  |
| HTC7L        | 58,00                      | 78,00            | 10/14         |        |  |
| HTCR         | 58,00                      | 80,00            | 7,00          |        |  |
| TB2I         | 58,00                      | 80,00            | 8,00          | GD     |  |
| TCW          | 58,00                      | 80,00            | 8,00          | SSLF   |  |
| TCWJ         | 58,00                      | 80,00            | 8,00          | SS     |  |
| HTCR         | 58,00                      | 80,00            | 9,00          |        |  |
| HTCR         | 58,00                      | 80,00            | 10,00         |        |  |
| HTCSR        | 58,00                      | 80/88            | 12,00         |        |  |
| SB2          | 58,00                      | 80,00            | 12,00         | GD     |  |
| TB2          | 58,00                      | 80,00            | 12,00         | GD     |  |
| HTBYR        | 58,00                      | 80/112           | 13,00         | ND     |  |
| KB           | 58,00                      | 80,14            | 9,50          | PO     |  |
| TCY          | 58,00                      | 82,00            | 7/14          | ND     |  |
| TB2          | 58,00                      | 85,00            | 8,00          | P9     |  |
| OVC          | 58,00                      | 87,00            | 7,00          |        |  |
| SCSX         | 58,00                      | 90/95            | 11,00         |        |  |
| TCWJ         | 58,00                      | 100,00           | 10,00         | SS     |  |
| HTAY         | 58,00                      | 102,00           | 8/22          | GD     |  |
| HTB2R        | 58,00                      | 102,00           | 9,00          | GD     |  |
| TB2          | 58,00                      | 102,00           | 10,00         | GD     |  |
| HTC7I        | 58,00                      | 102,00           | 11/19         |        |  |
| HTB2R        | 58,00                      | 102,00           | 12,00         | GD     |  |
| TB2          | 58,00                      | 102,00           | 12,00         | GD     |  |
| HTB9R        | 58,00                      | 103,00           | 11/19         | GD     |  |
| TC7          | 58,00                      | 103,00           | 12/19,5       |        |  |
| OV           | 58,00                      | 111,00           | 7,00          |        |  |
| OKB          | 58,20                      | 73/90            | 6,00          |        |  |
| HSBCR        | 58,29                      | 82,15            | 8,90          | NDGRO  |  |
| HTBCR        | 58,29                      | 82,15            | 8,90          | SSND   |  |
| VBRX2        | 58,32                      | 79,96            | 9,10          | ND     |  |
| VCY          | 58,50                      | 73,50            | 7,90          |        |  |
| TC5AY        | 58,50                      | 76,91/81,79      | 9,70          |        |  |
| TC5Y         | 58,50                      | 76,91/81,79      | 9,70          |        |  |
| SC5AY        | 58,60                      | 76,91/81,79      | 9,90          | SS     |  |
| SC5Y         | 58,60                      | 76,91/81,79      | 9,90          | SS     |  |
| TA2          | 58,73                      | 76,20            | 12,70         | SSGD   |  |
| VB2          | 58,74                      | 76,20            | 6,40          | PO     |  |
| KB4          | 58,74                      | 76,20            | 9,50          | PO     |  |
| SB2          | 58,74                      | 76,20            | 9,90          | P2     |  |
| SCIW         | 58,74                      | 79,38            | 9,50          |        |  |
| TB2          | 58,74                      | 79,38            | 9,50          | P2     |  |
| TB2I         | 58,74                      | 82,55            | 9,50          | GD     |  |
| SA2          | 58,74                      | 82,55            | 12,70         | GD     |  |
| TBC59A       | 58,74                      | 84,5/98,04       | 11/50,27      |        |  |
| SB2          | 58,74                      | 85,09            | 7,90          | GD     |  |
| TA2          | 58,74                      | 88,90            | 9,50          | P2     |  |
| SA2          | 58,74                      | 88,90            | 12,70         | ND     |  |
| VBRY         | 58,75                      | 77,85            | 7,14          | ND     |  |
| KB           | 58,95                      | 76,20            | 7,90          | ND     |  |
| KBRY         | 59,00                      | 64/72            | 7,50          | ND     |  |
| TB           | 59,00                      | 72,00            | 9,00          | GD     |  |
| HTBCR        | 59,00                      | 72,00            | 12/8          | ND     |  |
| TB           | 59,00                      | 72,00            | 12/13         | GD     |  |
| TB5Y         | 59,00                      | 75/80            | 8,8/13        | ND     |  |
| TB7          | 59,00                      | 75,00            | 9/10,5        | ND     |  |
| TB7          | 59,00                      | 75,00            | 9/12,5        | NDGR   |  |
| TB2          | 59,00                      | 75,00            | 10,00         | GD     |  |
| TB2Y         | 59,00                      | 75,00            | 10,00         | NDRD   |  |
| TA4          | 59,00                      | 85,00            | 19,00         |        |  |
| TC9Y         | 59,00                      | 100,00           | 10/17         |        |  |
| KB2          | 59,13                      | 76,12            | 7,90          | PORD   |  |
| HSB2YR       | 59,18                      | 76,20            | 9,50          | SSP2RD |  |
| HSB2I        | 59,20                      | 76,20            | 10,20         | PORD   |  |
| HSB5R        | 59,69                      | 85,62/93,5       | 7,5/9,1       | PO     |  |
| TB           | 60,00                      | 70,00            | 7,00          | GD     |  |
| TB7          | 60,00                      | 72,00            | 7/10          | SSP2   |  |
| TB           | 60,00                      | 72,00            | 7,50          | GD     |  |
| SB           | 60,00                      | 72,00            | 8,00          | ND     |  |
| TB3          | 60,00                      | 72,00            | 12,00         | GD     |  |
| SB           | 60,00                      | 72,00            | 18,00         | GD     |  |
| TBC          | 60,00                      | 73,00            | 11/12,5       | SSND   |  |
| TB           | 60,00                      | 74,00            | 7,50          | GD     |  |
| HTBCI        | 60,00                      | 74,00            | 8,00          |        |  |
| TA2          | 60,00                      | 74,00            | 10,00         | GD     |  |
| VAY          | 60,00                      | 75,00            | 4,00          | ND     |  |
| TB5Y         | 60,00                      | 75/85            | 5,8/11,8      | SSND   |  |
| HTCL         | 60,00                      | 75,00            | 8,00          |        |  |
| SCI          | 60,00                      | 75,00            | 8,00          | SS     |  |
| SCT          | 60,00                      | 75,00            | 8,00          |        |  |
| SCY          | 60,00                      | 75,00            | 8,00          |        |  |
| TB           | 60,00                      | 75,00            | 8,00          | GD     |  |
| TCI          | 60,00                      | 75,00            | 8,00          |        |  |
| HTB7L        | 60,00                      | 75,00            | 9/15          | GD     |  |
| DCP          | 60,00                      | 75,00            | 10,00         | SS     |  |
| VAFE         | 60,00                      | 75,00            | 11,00         | GD     |  |
| VBR          | 60,00                      | 75,80            | 4,00          | ND     |  |
| HTCL         | 60,00                      | 76,00            | 7,00          |        |  |
| HTCKL        | 60,00                      | 77,00            | 12,00         |        |  |
| TB2          | 60,00                      | 77,00            | 12,00         | GD     |  |
| DC           | 60,00                      | 77,80            | 8/11          | SS     |  |
| DC           | 60,00                      | 78,00            | 6,4/9,5       | SS     |  |
| VB2          | 60,00                      | 78,00            | 7,00          | GD     |  |
| HTCSL        | 60,00                      | 78/82            | 7,50          |        |  |
| TB2          | 60,00                      | 78,00            | 9,00          | GD     |  |
| VAX3         | 60,00                      | 78,00            | 9/11          |        |  |
| VBV          | 60,00                      | 78,00            | 9,7/11        | ND     |  |
| SCW          | 60,00                      | 78,00            | 10,00         | SSLF   |  |
| TCY          | 60,00                      | 78,00            | 10,20         |        |  |
| HTBCWR       | 60,00                      | 79,50            | 10,00         | ND     |  |
| VB2          | 60,00                      | 80,00            | 5,00          | ND     |  |
| TCJ          | 60,00                      | 80,00            | 6,00          |        |  |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| KCW9         | 60,00                      | 80,00            | 10/15         |               |
| SCI          | 60,00                      | 80,00            | 10,00         | SS            |
| SCW          | 60,00                      | 80,00            | 10,00         | SSLF          |
| TA2          | 60,00                      | 80,00            | 10,00         | GD            |
| TB2          | 60,00                      | 80,00            | 10,00         | SSGD          |
| TCWY         | 60,00                      | 80,00            | 10/13         |               |
| VA2T         | 60,00                      | 80,00            | 10,00         | SUSGD         |
| VAFE         | 60,00                      | 80,00            | 10,00         | ND            |
| TB2          | 60,00                      | 80,00            | 12,00         | GD            |
| HTBC16       | 60,00                      | 80,00            | 13/14,5       | NDGR1         |
| Y            | 60,00                      | 80/139,5         | 13,00         | SS            |
| HTCR         | 60,00                      | 82,00            | 7,00          |               |
| KC           | 60,00                      | 82,00            | 7,00          |               |
| TB2          | 60,00                      | 82,00            | 9,00          | GD            |
| HTCKR        | 60,00                      | 82,00            | 10,00         |               |
| DCP          | 60,00                      | 82,00            | 12,00         | SS            |
| HTCL         | 60,00                      | 82,00            | 12,00         |               |
| HTCL         | 60,00                      | 82,00            | 12,00         |               |
| HTCR         | 60,00                      | 82,00            | 12,00         |               |
| SB2          | 60,00                      | 82,00            | 12,00         | GD            |
| TB2          | 60,00                      | 82,00            | 12,00         | GD            |
| DB2          | 60,00                      | 82,00            | 18,00         | GD            |
| TC7          | 60,00                      | 83,00            | 14/21,5       |               |
| HTBCWR       | 60,00                      | 85,00            | 10,00         | SSND          |
| HTCI         | 60,00                      | 85,00            | 10,00         |               |
| KBP          | 60,00                      | 85,00            | 10,00         | GD            |
| HTCI         | 60,00                      | 85,00            | 13,00         |               |
| TA2          | 60,00                      | 85,00            | 16,00         | GD            |
| SA2          | 60,00                      | 85,50            | 12,00         | GD            |
| DB2          | 60,00                      | 86,00            | 6,3/10,3      | ND            |
| TB7          | 60,00                      | 86,00            | 7/12          | ND            |
| HTB7L        | 60,00                      | 88,00            | 9,5/16,5      | GD            |
| TBC57        | 60,00                      | 89,5/102         | 14/15         | SSND          |
| SLY          | 60,00                      | 90/94            | 8,00          | ND            |
| OVBY         | 60,00                      | 90,00            | 10/16,5       | ND            |
| SB2          | 60,00                      | 90,00            | 10,00         | ND            |
| TC9Y         | 60,00                      | 90,00            | 10/14,5       | GR            |
| VC7Y         | 60,00                      | 90,00            | 18/22         | ND            |
| DA9Y         | 60,00                      | 90,00            | 22,00         | ND            |
| TCI          | 60,00                      | 95,00            | 10,00         |               |
| SCI          | 60,00                      | 95,00            | 12,00         | SS            |
| SA2          | 60,00                      | 100,00           | 10,00         | ND            |
| TA7Y         | 60,00                      | 103,00           | 10/34,5       | PO            |
| HTB7         | 60,00                      | 103,00           | 12/20         | GD            |
| TBR7Y        | 60,00                      | 103,00           | 13,5/20       | GD            |
| TC42W        | 60,00                      | 110,00           | 6/9           |               |
| SCW          | 60,00                      | 110,00           | 10,00         | SSLF          |
| TB2I         | 60,00                      | 110,00           | 10,00         | GD            |
| TCJ          | 60,00                      | 110,00           | 10,00         | SS            |
| TA2          | 60,00                      | 110,00           | 13,00         | ND            |
| TC7Y         | 60,00                      | 114,00           | 12,5/29       |               |
| TCJ          | 60,00                      | 125,00           | 12,00         | SS            |
| HTCSY        | 60,20                      | 114,26/124       | 9,9/22        |               |
| HTCWR        | 60,27                      | 79,35            | 9/11          |               |
| HTCWR        | 60,27                      | 79,35            | 9/11          |               |
| HTCWR        | 60,27                      | 79,35            | 9/11          |               |
| KBR          | 60,33                      | 72,23            | 7,50          | ND            |
| HSCL         | 60,33                      | 76,20            | 9,90          | SS            |
| TB2          | 60,33                      | 77,79            | 9,50          | PORD          |
| SB           | 60,33                      | 77,79            | 12,70         | P5            |
| HTCR         | 60,33                      | 79,35            | 9,33/11,23    |               |
| HTCR         | 60,33                      | 79,35            | 9,33/11,23    |               |
| HTCR         | 60,33                      | 79,35            | 9,33/11,23    |               |
| HTCR         | 60,33                      | 79,37            | 9,5/10,5      |               |
| HTCWR        | 60,33                      | 79,38            | 9,3/10,5      |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SB           | 60,33                      | 79,38            | 9,50          | SSP5          |
| TA2          | 60,33                      | 79,38            | 9,50          | ND            |
| TB2          | 60,33                      | 79,38            | 9,50          | P2            |
| TA2          | 60,33                      | 79,38            | 11,10         | P2            |
| SA2          | 60,33                      | 79,38            | 12,70         | P0            |
| TA2          | 60,33                      | 79,38            | 12,70         | ND            |
| DC5Y         | 60,33                      | 80,02            | 8,9/12,7      |               |
| TB2          | 60,33                      | 82,55            | 9,50          | GD            |
| TA2          | 60,33                      | 82,55            | 11,10         | P0            |
| TA2          | 60,33                      | 82,58            | 9,50          | P0            |
| TB2          | 60,33                      | 82,58            | 12,70         | P0            |
| TB5          | 60,33                      | 82,58/97,5       | 13,40         | P0            |
| SB2          | 60,33                      | 84,93            | 6,40          | GD            |
| VB21         | 60,33                      | 85,09            | 6,40          | ND            |
| SB2          | 60,33                      | 85,09            | 9,50          | P5            |
| TA2          | 60,33                      | 85,09            | 9,50          | P0            |
| TA2          | 60,33                      | 85,09            | 11,10         | P0            |
| TA2          | 60,33                      | 85,09            | 11,90         | ND            |
| TB42         | 60,33                      | 85,09            | 15,90         | PORD          |
| TB2          | 60,33                      | 85,09            | 17,10         | P2            |
| SA2          | 60,33                      | 85,62            | 11,90         | ND            |
| TB2I         | 60,33                      | 85,73            | 12,70         | GD            |
| TA2          | 60,33                      | 88,40            | 17,50         | GD            |
| TA2          | 60,33                      | 88,42            | 11,10         | P0            |
| TA2          | 60,33                      | 88,47            | 12,70         | P2            |
| TA2          | 60,33                      | 88,90            | 9,50          | P0            |
| TB2          | 60,33                      | 88,90            | 12,70         | P2            |
| VB21         | 60,33                      | 90,00            | 6,40          | ND            |
| TA2          | 60,33                      | 90,00            | 7,90          | GD            |
| SA2          | 60,33                      | 90,00            | 11,10         | ND            |
| TA2          | 60,33                      | 90,00            | 12,70         | P0            |
| TA2          | 60,33                      | 91,47            | 11,10         | P2            |
| TA2          | 60,33                      | 91,52            | 11,90         | GD            |
| SA2          | 60,33                      | 92,02            | 11,10         | GD            |
| TA2          | 60,33                      | 92,02            | 11,10         | GD            |
| TB2          | 60,33                      | 92,02            | 11,10         | P0            |
| SA2          | 60,33                      | 92,02            | 12,70         | GD            |
| TA2          | 60,33                      | 92,02            | 12,70         | P0            |
| TB2          | 60,33                      | 95,25            | 12,70         | GD            |
| SA2          | 60,33                      | 98,43            | 11,10         | P9            |
| TBY          | 60,33                      | 103,22           | 27,74         | PORD          |
| TA2          | 60,33                      | 110,00           | 12,70         | ND            |
| VCF          | 60,33                      | 111,28           | 11,10         |               |
| HTB57        | 60,33                      | 114,25/124       | 9,9/22        | P0            |
| HTB5R        | 60,33                      | 114,3/124        | 26,90         | P0            |
| HTCWL        | 60,45                      | 76,18            | 10,00         | SS            |
| HTCWLA       | 60,45                      | 76,18            | 10/12         | SSSGD         |
| HSCR         | 60,50                      | 78,00            | 9,00          |               |
| HTCWR        | 60,50                      | 78,00            | 9,00          |               |
| TCE          | 60,50                      | 84,50            | 16,00         |               |
| TC57         | 60,80                      | 76,2/82,8        | 17,00         | NDGR          |
| KCSY         | 60,80                      | 77,4/70,36       | 8,70          | GR            |
| VBY          | 61,00                      | 70,00            | 6/9           | ND            |
| KIT          | 61,00                      | 76/83            | 7,00          |               |
| TB7          | 61,00                      | 76,00            | 7/10          | ND            |
| DCY          | 61,00                      | 76/78            | 14,00         |               |
| TB7Y         | 61,00                      | 78,00            | 7/10          | ND            |
| SCY          | 61,00                      | 78,00            | 7,50          |               |
| OAY          | 61,00                      | 80/91            | 8,00          |               |
| OVBY         | 61,00                      | 80/88            | 8,00          | ND            |
| TB           | 61,00                      | 80,09            | 7,80          | GD            |
| KBL3         | 61,10                      | 90,00            | 7,40          | ND            |
| KA2L3        | 61,10                      | 90,00            | 7,50          | ND            |
| TC57         | 61,30                      | 88,90            | 13,5/17       | NDGR          |
| KBY          | 61,47                      | 76,20            | 6,9/9,9       | ND            |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br><i>Notes</i> |
|--------------|-----------------------------------|----------------------------|-------------------------|----------------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |                      |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |                      |
| VBY          | 61,47                             | 90,37                      | 8,50                    | ND                   |
| TB2          | 61,50                             | 85,09                      | 9,50                    | SSPORD               |
| TBCW         | 61,50                             | 85,65                      | 12,50                   | NDGR                 |
| KB57         | 61,50                             | 87/99                      | 6,8/11,9                | NDGR                 |
| TB2I         | 61,77                             | 77,98                      | 5,80                    | NDRD                 |
| SCWY         | 61,80                             | 77,75                      | 11,5/13,2               |                      |
| KB57         | 61,91                             | 76,2/87,31                 | 7,1/13,5                | NDGR                 |
| TB2          | 61,91                             | 79,38                      | 9,50                    | GD                   |
| Y            | 61,91                             | 81,51                      | 32,61                   |                      |
| TA2          | 61,91                             | 82,58                      | 11,10                   | P2                   |
| TA5Y         | 61,91                             | 83,8/91,5                  | 7,9/11,9                | P0                   |
| SB2          | 61,91                             | 85,09                      | 9,50                    | P2                   |
| TA2          | 61,91                             | 85,73                      | 9,50                    | GD                   |
| TA2          | 61,91                             | 88,90                      | 9,52                    | P0                   |
| TA2          | 61,91                             | 88,90                      | 11,10                   | P2                   |
| SBR          | 61,91                             | 88,90                      | 12,70                   | GD                   |
| TB2I         | 61,91                             | 88,90                      | 12,70                   | GD                   |
| KB2          | 61,91                             | 92,05                      | 9,50                    | P0                   |
| VBY          | 61,91                             | 107,95                     | 9,50                    | ND                   |
| TA2          | 61,93                             | 85,09                      | 11,90                   | P0                   |
| KB57         | 62,00                             | 74/80,3                    | 5/9                     | ND                   |
| HTCR         | 62,00                             | 74,00                      | 8,00                    | SS                   |
| TB3          | 62,00                             | 74,00                      | 8,00                    | GD                   |
| HTC          | 62,00                             | 75,00                      | 8,00                    | SS                   |
| TB           | 62,00                             | 76,00                      | 9,50                    | GD                   |
| KB7          | 62,00                             | 78,00                      | 7/10                    | GD                   |
| TCY          | 62,00                             | 79,00                      | 11/15                   |                      |
| TA2          | 62,00                             | 80,00                      | 10,00                   | GD                   |
| TB2          | 62,00                             | 80,00                      | 10,00                   | GD                   |
| HTCR         | 62,00                             | 80,00                      | 12,00                   |                      |
| HTCWR        | 62,00                             | 80,00                      | 12,00                   |                      |
| TC42         | 62,00                             | 80,00                      | 12,00                   |                      |
| TB2          | 62,00                             | 82,00                      | 11,00                   | ND                   |
| SL           | 62,00                             | 82,00                      | 12,5/15,7               | GDGR                 |
| HMGL         | 62,00                             | 85,00                      | 7,00                    |                      |
| TA2Y         | 62,00                             | 85,00                      | 8/10                    | GD                   |
| TA7Y         | 62,00                             | 85,00                      | 8/17                    | GD                   |
| TB2          | 62,00                             | 85,00                      | 8,00                    | GD                   |
| TB2          | 62,00                             | 85,00                      | 9,00                    | GD                   |
| TB2          | 62,00                             | 85,00                      | 10,00                   | GD                   |
| DB2          | 62,00                             | 85,00                      | 12,00                   | SSND                 |
| SB2          | 62,00                             | 85,00                      | 12,00                   | GD                   |
| TB2          | 62,00                             | 85,00                      | 12,00                   | GD                   |
| TCCY         | 62,00                             | 85/93                      | 12/13,5                 |                      |
| DB           | 62,00                             | 85,00                      | 18,00                   | GD                   |
| TA2          | 62,00                             | 90,00                      | 12,00                   | GD                   |
| SA2          | 62,00                             | 90,00                      | 13,00                   | GD                   |
| TB2I         | 62,00                             | 95,00                      | 10,00                   | GD                   |
| TB2          | 62,00                             | 100,00                     | 12,00                   | ND                   |
| TC7AY        | 62,01                             | 80,01                      | 8,00                    | SUSNDGR              |
| VB2S         | 62,36                             | 92,71                      | 3,30                    | ND                   |
| KBL3         | 62,84                             | 90,00                      | 7,40                    | ND                   |
| HTB7L        | 63,00                             | 78,00                      | 9/15                    | GD                   |
| OVC          | 63,00                             | 80,00                      | 7,00                    |                      |
| TB2          | 63,00                             | 80,00                      | 7,70                    | GD                   |
| TB2          | 63,00                             | 80,00                      | 12,00                   | ND                   |
| HMGL         | 63,00                             | 85,00                      | 7/8                     |                      |
| TB2I         | 63,00                             | 85,00                      | 8,00                    | GD                   |
| TCI          | 63,00                             | 85,00                      | 10,00                   |                      |
| TB7Y         | 63,00                             | 90,00                      | 7/9,2                   | GD                   |
| SCI          | 63,00                             | 90,00                      | 10,00                   | SS                   |
| TCI          | 63,00                             | 90,00                      | 10,00                   |                      |
| TC7          | 63,40                             | 80,01                      | 8/11                    |                      |
| DCY          | 63,47                             | 109,96                     | 12,7/24,1               | SS                   |
| DCY          | 63,47                             | 109,96                     | 12,7/24,1               |                      |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br>Notes |
|--------------|-----------------------------------|----------------------------|-------------------------|---------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |               |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |               |
| OVY          | 63,50                             | 73,03                      | 3,20                    |               |
| OVC          | 63,50                             | 73,81                      | 3,70                    |               |
| VP           | 63,50                             | 76,00                      | 3,00                    |               |
| SBR          | 63,50                             | 77,77                      | 6,40                    | ND            |
| HSCL         | 63,50                             | 78,60                      | 7,50                    | SS            |
| HSCR         | 63,50                             | 78,60                      | 7,50                    | SS            |
| OVY          | 63,50                             | 79,40                      | 6,4/8,6                 |               |
| KAJ          | 63,50                             | 79,50                      | 7,9/20,9                | P0            |
| HTB2R        | 63,50                             | 80,00                      | 8,00                    | P5RD          |
| TBI          | 63,50                             | 80,96                      | 9,50                    | GD            |
| HDAUL        | 63,50                             | 80,96                      | 20,60                   | SSSGD         |
| Y            | 63,50                             | 82,00                      | 11/18,5                 |               |
| TCI          | 63,50                             | 82,55                      | 9,50                    |               |
| VB2          | 63,50                             | 82,58                      | 7,90                    | P0            |
| TB2          | 63,50                             | 82,58                      | 9,50                    | P0            |
| SA2          | 63,50                             | 82,58                      | 12,70                   | P5            |
| SB2          | 63,50                             | 82,58                      | 12,70                   | P0            |
| TA2          | 63,50                             | 82,58                      | 12,70                   | P0            |
| TB2          | 63,50                             | 82,90                      | 15,90                   | P2RD          |
| HTB5         | 63,50                             | 83,9/91                    | 8,4/9,7                 | P0            |
| VB2Y         | 63,50                             | 85,50                      | 14,00                   | ND            |
| SA2          | 63,50                             | 85,60                      | 12,70                   | P5            |
| TB2          | 63,50                             | 85,62                      | 9,50                    | GD            |
| TB2I         | 63,50                             | 85,73                      | 9,50                    | GD            |
| TB2I         | 63,50                             | 85,73                      | 12,70                   | GD            |
| TB2          | 63,50                             | 87,07                      | 9,50                    | P0            |
| HTB45L       | 63,50                             | 87,07                      | 18,00                   | SSP5          |
| SB2          | 63,50                             | 88,87                      | 12,70                   | ND            |
| VB18         | 63,50                             | 88,90                      | 6,40                    | ND            |
| TA2          | 63,50                             | 88,90                      | 9,50                    | P0            |
| TB2          | 63,50                             | 88,90                      | 9,50                    | GD            |
| HTB2L        | 63,50                             | 88,90                      | 11,40                   | P0            |
| DCP          | 63,50                             | 88,90                      | 12,70                   | SS            |
| SA2          | 63,50                             | 88,90                      | 12,70                   | GD            |
| SA2          | 63,50                             | 88,90                      | 12,70                   | P0            |
| TA2          | 63,50                             | 88,90                      | 12,70                   | P0            |
| TB2          | 63,50                             | 88,90                      | 12,70                   | GD            |
| SAY          | 63,50                             | 88,90                      | 15,90                   | GD            |
| SB2          | 63,50                             | 88,90                      | 15,90                   | GD            |
| TCI          | 63,50                             | 89,92                      | 11,10                   |               |
| DA           | 63,50                             | 89,92                      | 22,22                   | GD            |
| SA2          | 63,50                             | 90,00                      | 11,10                   | P2            |
| TA2          | 63,50                             | 90,00                      | 12,70                   | P0            |
| SA2          | 63,50                             | 90,09                      | 11,90                   | GD            |
| TA2          | 63,50                             | 92,02                      | 9,50                    | P0            |
| TBC7Y        | 63,50                             | 92,02                      | 9,5/15,1                | ND            |
| TB2          | 63,50                             | 92,02                      | 11,10                   | P5            |
| TB45         | 63,50                             | 92/18/106                  | 12,70                   | SSP0          |
| VB5Y         | 63,50                             | 95/105,8                   | 5,80                    | NDGR          |
| SBR          | 63,50                             | 95,25                      | 11,10                   | P2            |
| SA2          | 63,50                             | 95,28                      | 11,10                   | P2            |
| TB2          | 63,50                             | 95,28                      | 11,10                   | GD            |
| SB2          | 63,50                             | 95,28                      | 12,70                   | PORD          |
| TA2          | 63,50                             | 95,28                      | 12,70                   | P0            |
| HTA5Y        | 63,50                             | 98,41/107,95               | 15/2,9                  | NDGR          |
| HTCS1        | 63,50                             | 98,41/107,95               | 15,00                   | NDGR          |
| SA2          | 63,50                             | 98,43                      | 11,10                   | ND            |
| TC42Y        | 63,50                             | 98,43                      | 11,90                   |               |
| TA2          | 63,50                             | 98,45                      | 11,90                   | P2            |
| TB2          | 63,50                             | 98,45                      | 11,90                   | ND            |
| TA2          | 63,50                             | 101,60                     | 9,50                    | GD            |
| TA2          | 63,50                             | 101,60                     | 12,70                   | GD            |
| HTB57I       | 63,50                             | 102,49/110                 | 12,5/15,1               | P0            |
| TB77         | 63,50                             | 102,49                     | 16,30                   | NDGR          |
| PS8          | 63,50                             | 107,95/118,7               | 13,50                   |               |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br>Notes |
|--------------|-----------------------------------|----------------------------|-------------------------|---------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |               |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |               |
| SA2          | 63,50                             | 110,00                     | 13,00                   | GD            |
| SB5Y         | 63,50                             | 114,3/155,58               | 10,10                   | ND            |
| TB2          | 63,50                             | 125,43                     | 12,70                   | ND            |
| HTBC42       | 63,55                             | 88,82                      | 12,40                   | SSNDGR        |
| HTB45L       | 63,55                             | 92,15                      | 14,20                   | SSP5          |
| SA2E         | 63,55                             | 93,80                      | 14,30                   | P5            |
| UP           | 64,00                             | 74,00                      | 10,00                   |               |
| UP+OR        | 64,00                             | 74,00                      | 10,00                   |               |
| OKB          | 64,00                             | 75/82                      | 7/9                     | ND            |
| TB           | 64,00                             | 77,00                      | 12,00                   | GD            |
| HTCI         | 64,00                             | 79,00                      | 8,00                    | GR            |
| HTB2L        | 64,00                             | 80,00                      | 8,00                    | ND            |
| HTCL         | 64,00                             | 80,00                      | 8,00                    |               |
| KB2          | 64,00                             | 82,00                      | 7,00                    | GD            |
| TB           | 64,00                             | 89,00                      | 12,00                   | GD            |
| HTCR         | 64,00                             | 90,00                      | 10,00                   |               |
| TC3Y         | 64,00                             | 132,75                     | 13,00                   |               |
| TB2          | 64,29                             | 92,08                      | 12,70                   | P2RD          |
| OVY          | 65,00                             | 75,00                      | 6,00                    |               |
| HSB2I        | 65,00                             | 77,00                      | 7,50                    | ND            |
| TB2          | 65,00                             | 77,00                      | 7,50                    | GD            |
| HTB3         | 65,00                             | 77,00                      | 12,00                   | GD            |
| HTCR         | 65,00                             | 78,00                      | 8,00                    |               |
| OSC          | 65,00                             | 78,00                      | 8,00                    | SS            |
| HTCR         | 65,00                             | 79,00                      | 7,00                    | SS            |
| HTCWL        | 65,00                             | 79,80                      | 8,00                    | SS            |
| VAY          | 65,00                             | 80,00                      | 4,00                    | GD            |
| KB9          | 65,00                             | 80,00                      | 7,8/13                  | GD            |
| DC           | 65,00                             | 80,00                      | 8,00                    |               |
| HSBR         | 65,00                             | 80,00                      | 8,00                    | GD            |
| SCW          | 65,00                             | 80,00                      | 8,00                    | SS            |
| VB2          | 65,00                             | 80,00                      | 8,00                    | GD            |
| HTB7L        | 65,00                             | 80,00                      | 10/17                   | GD            |
| HTCR         | 65,00                             | 81,00                      | 7,00                    |               |
| TB57Y        | 65,00                             | 82/94,4                    | 7/13,5                  | ND            |
| HTCKL        | 65,00                             | 84,00                      | 9,00                    |               |
| HTCR         | 65,00                             | 84,00                      | 9,00                    |               |
| DBY          | 65,00                             | 84,50                      | 4/8,5                   | SSND          |
| HTCR         | 65,00                             | 85,00                      | 8,00                    |               |
| DCP          | 65,00                             | 85,00                      | 10,00                   | SS            |
| HTCR         | 65,00                             | 85,00                      | 10,00                   |               |
| SCI          | 65,00                             | 85,00                      | 10,00                   | SS            |
| TB2          | 65,00                             | 85,00                      | 10,00                   | GD            |
| TB6Y         | 65,00                             | 85,00                      | 10/16,5                 | SSGD          |
| TCW          | 65,00                             | 85,00                      | 10,00                   | SS            |
| OSC          | 65,00                             | 85,00                      | 11,00                   |               |
| VAFE         | 65,00                             | 85,00                      | 12,00                   | GD            |
| HTCR         | 65,00                             | 85,00                      | 13,00                   |               |
| TB2          | 65,00                             | 85,00                      | 13,00                   | GD            |
| TB6YA        | 65,00                             | 85,00                      | 17,50                   | SSGD          |
| TC4Y         | 65,00                             | 87,38                      | 8,90                    |               |
| KB7Y         | 65,00                             | 88,00                      | 9/18                    | GD            |
| DCAy         | 65,00                             | 88,00                      | 10/15,7                 | SS            |
| Y            | 65,00                             | 88,00                      | 10/15,7                 |               |
| HTC7R        | 65,00                             | 88,00                      | 12/18,5                 |               |
| HTCR         | 65,00                             | 88,00                      | 12,00                   |               |
| OSC          | 65,00                             | 88,00                      | 12,00                   |               |
| TA2          | 65,00                             | 88,00                      | 12,00                   | GD            |
| TB2          | 65,00                             | 88,00                      | 12,00                   | P5            |
| TB2          | 65,00                             | 88,00                      | 12,00                   | GD            |
| SL16         | 65,00                             | 88,00                      | 13/14,5                 | SSGDGR        |
| TB2          | 65,00                             | 88,00                      | 13,00                   | GD            |
| TCY          | 65,00                             | 89,70                      | 12,20                   |               |
| VB2          | 65,00                             | 90,00                      | 6,00                    | GD            |
| DC5          | 65,00                             | 90/96,5                    | 9/12                    | SSND          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| DC5A         | 65,00                      | 90/96,5          | 9/12,8        | SSND          |
| TC7          | 65,00                      | 90,00            | 9/13          |               |
| HTB2R        | 65,00                      | 90,00            | 10,00         | P9            |
| HTCR         | 65,00                      | 90,00            | 10,00         |               |
| SB2          | 65,00                      | 90,00            | 10,00         | ND            |
| SCW          | 65,00                      | 90,00            | 10,00         | SS            |
| TCW          | 65,00                      | 90,00            | 10,00         | SS            |
| SB2          | 65,00                      | 90,00            | 13,00         | GD            |
| TA2          | 65,00                      | 90,00            | 13,00         | GD            |
| TB2          | 65,00                      | 90,00            | 13,00         | GD            |
| HTB2R        | 65,00                      | 90,00            | 15,00         | ND            |
| DB           | 65,00                      | 90,00            | 20,00         | GD            |
| TB2          | 65,00                      | 92,00            | 12,00         | P5            |
| TB2          | 65,00                      | 92,00            | 13,00         | GD            |
| TBY          | 65,00                      | 93,00            | 8/16          | GD            |
| OKC          | 65,00                      | 95,00            | 8,00          |               |
| HTB7L        | 65,00                      | 95,00            | 14/20,5       | GD            |
| HTBYR        | 65,00                      | 95,00            | 14/22         | GD            |
| TB2          | 65,00                      | 95,00            | 14,00         | GD            |
| TB3          | 65,00                      | 95,00            | 14,00         | GD            |
| SL16         | 65,00                      | 98,00            | 13/14,5       | GDGR          |
| TB2          | 65,00                      | 100,00           | 12,00         | GD            |
| HTB7RY       | 65,00                      | 105,00           | 9/25          | ND            |
| TB2          | 65,00                      | 110,00           | 10,00         | GD            |
| HTAYR        | 65,00                      | 114,00           | 10/26         | GD            |
| TC42W        | 65,00                      | 120,00           | 6/9           |               |
| OSBY         | 65,00                      | 120,50           | 10,00         |               |
| TC2W         | 65,00                      | 125,00           | 12,00         | SSS           |
| Y            | 65,05                      | 96,60            | 10,4/19,5     |               |
| SCWY         | 65,05                      | 101,07           | 12/14,2       |               |
| SCAWY        | 65,05                      | 101,07           | 13,5/22       |               |
| TB2          | 65,08                      | 92,02            | 11,90         | P5RD          |
| VB7Y         | 65,09                      | 78,49            | 9,50          | P2RD          |
| SBR          | 65,09                      | 80,57            | 4,80          | GD            |
| TA2          | 65,09                      | 88,42            | 9,50          | P0            |
| SB2          | 65,09                      | 88,50            | 12,70         | GD            |
| TB2          | 65,09                      | 88,90            | 12,70         | GD            |
| TA2          | 65,09                      | 92,02            | 9,50          | P0            |
| SA2          | 65,09                      | 92,07            | 12,70         | P0            |
| TA2          | 65,09                      | 95,25            | 9,50          | P0            |
| TB2          | 65,10                      | 98,37            | 11,13         | POHRD         |
| TA2          | 65,99                      | 88,42            | 12,70         | P0            |
| TB7Y         | 66,00                      | 82,00            | 8/14          | GD            |
| TA2          | 66,00                      | 85,00            | 8,00          | GD            |
| TA2Y         | 66,00                      | 85,00            | 8/10          | GD            |
| KC7Y         | 66,00                      | 86,20            | 5,5/10        | GR            |
| TAY          | 66,00                      | 88,00            | 8,5/17,5      | NDGR          |
| TB7Y         | 66,00                      | 88,00            | 8,5/15        | SSNDGR        |
| TC9          | 66,00                      | 90,00            | 15,00         | SSGR          |
| TB2          | 66,00                      | 101,57           | 19,80         | P0            |
| TB5          | 66,00                      | 101,57/116,8     | 19,80         | P0            |
| TC3Y         | 66,00                      | 133,50           | 15,5/17,5     |               |
| HTC59Y       | 66,21                      | 92,06/100        | 8,71/26       | SS            |
| HSCWR        | 66,36                      | 88,90            | 9,90          |               |
| SC5AY        | 66,55                      | 85,85/91,44      | 9,30          | SS            |
| SC5Y         | 66,55                      | 85,85/91,44      | 9,30          | SS            |
| SAVT         | 66,65                      | 93,40            | 12,70         | GD            |
| HTCWR        | 66,67                      | 85,73            | 9,50          |               |
| SA2          | 66,67                      | 92,07            | 12,70         | GD            |
| UP           | 66,68                      | 76,40            | 4,80          |               |
| UP+OR        | 66,68                      | 76,40            | 4,80          |               |
| SA2          | 66,68                      | 82,55            | 11,10         | P0            |
| TA2          | 66,68                      | 82,58            | 11,10         | P0            |
| TA2          | 66,68                      | 85,62            | 11,10         | ND            |
| WY           | 66,68                      | 85,73            | 3,50          |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| VB2          | 66,68                      | 85,73            | 6,40          | P2            |
| HSC          | 66,68                      | 85,73            | 9,90          |               |
| TBI          | 66,68                      | 85,73            | 12,70         | GD            |
| SA2          | 66,68                      | 88,40            | 12,70         | P0            |
| TA2          | 66,68                      | 88,90            | 9,50          | P0            |
| TB2          | 66,68                      | 88,90            | 9,50          | P2            |
| TA2          | 66,68                      | 88,90            | 11,10         | P0            |
| TB2          | 66,68                      | 88,90            | 11,10         | ND            |
| HTCR         | 66,68                      | 88,90            | 12,70         |               |
| TB2I         | 66,68                      | 88,90            | 12,70         | GD            |
| SB2          | 66,68                      | 89,99            | 7,90          | P2            |
| TAY          | 66,68                      | 90,00            | 12,7/19,05    | P5            |
| SB2          | 66,68                      | 92,02            | 9,50          | P0            |
| TA2          | 66,68                      | 92,02            | 9,50          | GD            |
| TB2          | 66,68                      | 92,02            | 11,90         | P2            |
| SA2          | 66,68                      | 92,02            | 12,70         | P0            |
| SA2E         | 66,68                      | 92,02            | 12,70         | SSGD          |
| TA2          | 66,68                      | 92,03            | 19,05         | GD            |
| VB2I         | 66,68                      | 92,08            | 6,40          | P2            |
| TB2          | 66,68                      | 92,08            | 11,10         | P0            |
| TA2          | 66,68                      | 92,15            | 11,13         | P2            |
| SA2          | 66,68                      | 92,15            | 11,90         | GD            |
| SA2E         | 66,68                      | 93,80            | 14,30         | P5            |
| SB           | 66,68                      | 95,25            | 9,50          | P2            |
| TA2          | 66,68                      | 95,25            | 12,70         | GD            |
| TB2          | 66,68                      | 95,28            | 9,50          | ND            |
| TA2          | 66,68                      | 95,28            | 11,10         | P5            |
| TB2          | 66,68                      | 95,28            | 12,70         | PORD          |
| TB2I         | 66,68                      | 98,43            | 12,70         | GD            |
| SA2          | 66,68                      | 98,45            | 11,10         | P0            |
| TA2          | 66,68                      | 98,45            | 11,90         | ND            |
| TA2          | 66,68                      | 101,68           | 9,50          | P0            |
| TBY          | 66,68                      | 103,22           | 24,40         | PORD          |
| TA2          | 66,68                      | 111,13           | 11,10         | P2            |
| SA2          | 66,68                      | 112,71           | 11,10         | ND            |
| HTBYR        | 66,68                      | 115,88           | 21,50         | GD            |
| TAYFE        | 66,68                      | 115,93/125,5     | 18,20         | P0            |
| TB5          | 66,68                      | 115,93/125,5     | 18,20         | SSP0          |
| TB5          | 66,68                      | 115,93/123,83    | 18,26         | P0            |
| TC42         | 66,70                      | 95,25            | 13,00         | GR            |
| SB2          | 66,78                      | 96,85            | 12,70         | GD            |
| HTCL         | 67,00                      | 82,00            | 7,50          |               |
| DC           | 67,00                      | 84,00            | 9,00          | SSGR          |
| DC7Y         | 67,00                      | 84,00            | 9/12,5        | SSGR          |
| TC9Y         | 67,00                      | 84,00            | 9,00          | SS            |
| TC9Y         | 67,00                      | 84,00            | 9/12,5        | GR            |
| TC9Y         | 67,00                      | 84,00            | 9/12,5        | SSGR          |
| TCE          | 67,00                      | 84,00            | 9,00          | SSGR          |
| TCEJ         | 67,00                      | 84,00            | 9,00          | SSGR          |
| TB5Y         | 67,00                      | 90/100           | 12/19         | ND            |
| DC           | 67,00                      | 100,00           | 10,00         | SS            |
| SB2          | 67,26                      | 96,82            | 12,70         | P2            |
| VBR          | 67,74                      | 95,28            | 12,70         | ND            |
| Y            | 68,00                      | 80,00            | 1,90          |               |
| HTCKL        | 68,00                      | 80,00            | 10,00         |               |
| HTCR         | 68,00                      | 83,00            | 10,00         |               |
| TB2          | 68,00                      | 85,00            | 8,00          | GD            |
| SB2          | 68,00                      | 85,00            | 10,00         | GD            |
| SCY          | 68,00                      | 85,20            | 9,00          |               |
| HTCL         | 68,00                      | 86,00            | 8,00          |               |
| HSCR         | 68,00                      | 88,00            | 8,00          |               |
| TA2          | 68,00                      | 88,00            | 9,50          | GD            |
| HSCR         | 68,00                      | 88,00            | 10,00         |               |
| HTCSR        | 68,00                      | 88/93            | 10,00         |               |
| TB2          | 68,00                      | 88,00            | 10,00         | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HSCR         | 68,00                      | 88,00            | 13,00         |               |
| HSCR         | 68,00                      | 88,10            | 8,00          |               |
| VAY          | 68,00                      | 90,00            | 4,00          | GD            |
| SB2          | 68,00                      | 90,00            | 8,40          | P5RD          |
| HTB7L        | 68,00                      | 90,00            | 10/18         | GD            |
| SB2          | 68,00                      | 90,00            | 10,00         | ND            |
| SCI          | 68,00                      | 90,00            | 10,00         | SS            |
| TA2          | 68,00                      | 90,00            | 10,00         | GD            |
| TB2          | 68,00                      | 90,00            | 10,00         | GD            |
| TCI          | 68,00                      | 90,00            | 10,00         |               |
| HTB2R        | 68,00                      | 90,00            | 12,00         | GD            |
| HTCKL        | 68,00                      | 90,00            | 12,00         |               |
| TA23         | 68,00                      | 90,00            | 12,00         | GD            |
| TB2          | 68,00                      | 90,00            | 12,00         | GD            |
| DC           | 68,00                      | 90,00            | 13,00         |               |
| HTCSR        | 68,00                      | 90/98            | 13,00         |               |
| SB2          | 68,00                      | 90,00            | 13,00         | GD            |
| TB2          | 68,00                      | 90,00            | 14,00         | GD            |
| KCY          | 68,00                      | 90,00            | 15,00         | ND            |
| TA2          | 68,00                      | 92,00            | 10,00         | GD            |
| TB2          | 68,00                      | 92,00            | 12,00         | GD            |
| HTCL         | 68,00                      | 95,00            | 13,00         |               |
| SB2          | 68,00                      | 95,00            | 13,00         | GD            |
| SB2          | 68,00                      | 95,00            | 13,00         | SSPO          |
| TB2          | 68,00                      | 95,00            | 13,00         |               |
| HTA9R        | 68,00                      | 124,00           | 11,5/27       | GD            |
| HTB7R        | 68,00                      | 124,00           | 11,5/27       | GD            |
| SAY          | 68,22                      | 146,84/209,55    | 12,70         |               |
| SA2          | 68,28                      | 101,68           | 11,90         | ND            |
| SB5          | 68,58                      | 88,84/94         | 8,9/12,1      | P2            |
| DBSY         | 68,60                      | 86,00            | 8,6/11        | ND            |
| TB2          | 69,00                      | 85,00            | 10,00         | ND            |
| DBC5Y        | 69,00                      | 86/101           | 7/15          | SSND          |
| VB5Y         | 69,00                      | 86,5/97,8        | 5,90          | NDGR          |
| HTBC16       | 69,00                      | 90,00            | 13,00         | NDGR          |
| HTA5Y        | 69,00                      | 90,09/100        | 2,9/15        | GR            |
| HTC5I        | 69,00                      | 90,09/100        | 15,00         | NDGR          |
| VP           | 69,00                      | 95,00            | 4,5/10        |               |
| TBC16        | 69,00                      | 100,00           | 15,50         | NDGR          |
| TA2          | 69,06                      | 98,82            | 9,90          | ND            |
| TCWAY        | 69,60                      | 99,97            | 12,7/20,7     |               |
| TCWY         | 69,60                      | 99,97            | 12,7/20,7     |               |
| TCS          | 69,80                      | 90/100           | 15,00         | GR            |
| TC5A         | 69,80                      | 90/100           | 15,00         | GR            |
| HVCSL        | 69,80                      | 98,00            | 5,00          | GR            |
| OSCY         | 69,85                      | 83,00            | 12,80         | GR            |
| VY           | 69,85                      | 86,90            | 3,90          | ND            |
| VAY          | 69,85                      | 88,90            | 6,40          | ND            |
| VB2          | 69,85                      | 88,90            | 6,40          | P2            |
| DC           | 69,85                      | 88,90            | 9,50          | SS            |
| SB2          | 69,85                      | 88,90            | 9,50          | P2            |
| TA2          | 69,85                      | 88,90            | 9,50          | P2            |
| TB2          | 69,85                      | 88,90            | 9,50          | SSND          |
| TC7AY        | 69,85                      | 88,90            | 9,5/14        | ND            |
| TC7Y         | 69,85                      | 88,90            | 9,5/14,9      |               |
| SA2          | 69,85                      | 88,90            | 11,10         | P2            |
| DCP          | 69,85                      | 88,90            | 12,70         | SS            |
| SA2          | 69,85                      | 89,92            | 12,70         | P0            |
| TA2          | 69,85                      | 89,99            | 11,10         | ND            |
| TA2          | 69,85                      | 90,00            | 12,70         | ND            |
| TB2          | 69,85                      | 90,00            | 12,70         | P0            |
| OTC          | 69,85                      | 90,60            | 12,00         | GR            |
| SA2          | 69,85                      | 92,08            | 11,10         | GD            |
| VB21         | 69,85                      | 95,25            | 6,40          | GD            |
| TA2          | 69,85                      | 95,25            | 9,50          | SSPOH         |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SA2          | 69,85                      | 95,25            | 12,70         | GD            |
| TB2I         | 69,85                      | 95,25            | 12,70         | GD            |
| TA2          | 69,85                      | 95,25            | 15,90         | ND            |
| TB2          | 69,85                      | 95,25            | 15,90         | ND            |
| VB2I         | 69,85                      | 95,28            | 6,40          | ND            |
| TA2          | 69,85                      | 95,28            | 11,10         | GD            |
| TB2          | 69,85                      | 95,28            | 11,10         | P5RD          |
| SA2          | 69,85                      | 95,28            | 12,70         | P0            |
| TA2          | 69,85                      | 95,28            | 12,70         | GD            |
| TA2          | 69,85                      | 95,28            | 12,70         | P0            |
| SA2          | 69,85                      | 95,63            | 11,90         | GD            |
| TA2          | 69,85                      | 98,43            | 9,50          | P0            |
| SA2          | 69,85                      | 98,43            | 12,70         | P0            |
| TB2          | 69,85                      | 98,45            | 11,10         | ND            |
| TA2          | 69,85                      | 98,45            | 11,90         | P0            |
| TB2          | 69,85                      | 98,45            | 11,90         | P0            |
| TB2          | 69,85                      | 100,00           | 7,80          | P0            |
| KA2L3        | 69,85                      | 100,00           | 7,90          | ND            |
| TB2I         | 69,85                      | 101,60           | 12,70         | GD            |
| TA2          | 69,85                      | 101,65           | 9,50          | P2            |
| TA2          | 69,85                      | 101,68           | 11,90         | P0            |
| SB2          | 69,85                      | 104,78           | 11,10         | P2            |
| TA2          | 69,85                      | 107,95           | 11,90         | P2            |
| TB2I         | 69,85                      | 107,95           | 12,70         | GD            |
| TA2          | 69,85                      | 110,00           | 12,70         | ND            |
| TA2          | 69,85                      | 111,10           | 19,10         | GD            |
| TB5Y         | 69,85                      | 112,55/122       | 11,10         | ND            |
| TB5Y         | 69,85                      | 112,55/122       | 11,10         | SSS           |
| TB2Y         | 69,85                      | 139,73           | 32,16         | P0            |
| VP           | 70,00                      | 95,00            | 4,5/10        |               |
| OVC          | 70,00                      | 78,00            | 4,00          |               |
| KB3          | 70,00                      | 79,00            | 5,30          | ND            |
| HTB3         | 70,00                      | 82,00            | 12,00         | GD            |
| OKC          | 70,00                      | 83,00            | 14,00         |               |
| VAY          | 70,00                      | 85,00            | 4,00          | GD            |
| HSBL         | 70,00                      | 85,00            | 8,00          | ND            |
| SCI          | 70,00                      | 85,00            | 8,00          | SS            |
| TB2          | 70,00                      | 85,00            | 8,00          | GD            |
| TCI          | 70,00                      | 85,00            | 8,00          | SS            |
| HTCWL        | 70,00                      | 87,00            | 8,50          |               |
| HTCL         | 70,00                      | 87,00            | 10,00         |               |
| HSCWL        | 70,00                      | 88,00            | 8,00          |               |
| HTCWR        | 70,00                      | 88,00            | 8,00          |               |
| DCW          | 70,00                      | 88,00            | 10,00         | SS            |
| HTCL         | 70,00                      | 88,00            | 12,00         |               |
| TB           | 70,00                      | 88,00            | 12,00         | GD            |
| TC35         | 70,00                      | 88/130           | 12,00         |               |
| DC           | 70,00                      | 90,00            | 10,00         |               |
| HSB2L        | 70,00                      | 90,00            | 10,00         | ND            |
| HSB2R        | 70,00                      | 90,00            | 10,00         | ND            |
| HSCL         | 70,00                      | 90,00            | 10,00         |               |
| HSCWR        | 70,00                      | 90,00            | 10,00         |               |
| HTB2L        | 70,00                      | 90,00            | 10,00         | ND            |
| HTCL         | 70,00                      | 90,00            | 10,00         |               |
| HTCWL        | 70,00                      | 90,00            | 10,00         |               |
| SB2          | 70,00                      | 90,00            | 10,00         | GD            |
| SCI          | 70,00                      | 90,00            | 10,00         |               |
| TA2          | 70,00                      | 90,00            | 10,00         | GD            |
| TB2          | 70,00                      | 90,00            | 10,00         | GD            |
| TC3          | 70,00                      | 90,00            | 11,00         |               |
| TA2          | 70,00                      | 90,00            | 12,00         | GD            |
| SA2          | 70,00                      | 90,00            | 13,00         | GD            |
| TB2          | 70,00                      | 90,00            | 13,50         | GD            |
| TC6Y         | 70,00                      | 90,00            | 14,00         |               |
| HTB2L        | 70,00                      | 90,00            | 15,00         | ND            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| TC3          | 70,00                      | 90,00               | 16,00            |               |
| HTCL         | 70,00                      | 92,00               | 8,50             | SS            |
| HTCL         | 70,00                      | 92,00               | 12,00            |               |
| HTCR         | 70,00                      | 92,00               | 12,00            |               |
| TBR          | 70,00                      | 92,00               | 12,00            | GD            |
| DC4P         | 70,00                      | 93,00               | 4/19             |               |
| TA2Y         | 70,00                      | 94,00               | 8/10             | GD            |
| TC7          | 70,00                      | 94,40               | 11,8/19,5        |               |
| HTC7Y        | 70,00                      | 94,50               | 10/17            |               |
| TC7          | 70,00                      | 94,70               | 11,8/19,3        |               |
| DC           | 70,00                      | 95,00               | 10,00            | SS            |
| HTC7Y        | 70,00                      | 95,00               | 12/18            |               |
| HTB57L       | 70,00                      | 95/102              | 13/20            | ND            |
| HTC42        | 70,00                      | 95,00               | 13,00            |               |
| HTC7R        | 70,00                      | 95,00               | 13/20            |               |
| SB2          | 70,00                      | 95,00               | 13,00            | GD            |
| TB2          | 70,00                      | 95,00               | 13,00            | GD            |
| HTB7L        | 70,00                      | 95,00               | 14/20            | GD            |
| TC7          | 70,00                      | 95,10               | 12/19,5          |               |
| HTCCYL       | 70,00                      | 96/103              | 11,00            |               |
| VP           | 70,00                      | 100,00              | 4,5/10           |               |
| TCW          | 70,00                      | 100,00              | 10,00            | SSLF          |
| TB2          | 70,00                      | 100,00              | 12,00            | GD            |
| TCI          | 70,00                      | 100,00              | 12,00            |               |
| SB2          | 70,00                      | 100,00              | 13,00            | GD            |
| TB2          | 70,00                      | 100,00              | 13,00            | GD            |
| TB2          | 70,00                      | 100,00              | 14,00            | GD            |
| OTC          | 70,00                      | 100,00              | 15,00            |               |
| SB2          | 70,00                      | 105,00              | 10,00            | GD            |
| TCI          | 70,00                      | 110,00              | 8,00             |               |
| TB2I         | 70,00                      | 110,00              | 10,00            | GD            |
| TA2          | 70,00                      | 110,00              | 13,00            | GD            |
| TBY          | 70,00                      | 112,00              | 10/18            | GD            |
| TBY          | 70,00                      | 112,00              | 14/20            | GD            |
| TCW          | 70,00                      | 120,00              | 10,00            |               |
| TA7Y         | 70,00                      | 122,00              | 12/30,3          | P0            |
| TA7Y         | 70,00                      | 132,00              | 12/30,3          | P0            |
| TB9Y         | 70,00                      | 135,00              | 14/18            | GD            |
| TA7Y         | 70,00                      | 142,00              | 12/36,3          | P0            |
| TC42         | 70,64                      | 88,90               | 12,70            | GR            |
| VBR          | 71,42                      | 98,45               | 4,80             | ND            |
| TA2          | 71,42                      | 98,45               | 11,10            | P0            |
| TA2          | 71,43                      | 107,93              | 11,90            | P0            |
| SA2          | 71,44                      | 98,43               | 12,30            | ND            |
| SA2          | 71,44                      | 98,45               | 11,10            | P2            |
| SBY          | 72,00                      | 84/85               | 18/8             | ND            |
| TB7I         | 72,00                      | 85,50               | 8/10,5           | ND            |
| VAFE         | 72,00                      | 87,00               | 10,50            | GD            |
| SB2          | 72,00                      | 88,00               | 8,00             | GD            |
| TB2          | 72,00                      | 90,00               | 8,00             | ND            |
| HTCWL        | 72,00                      | 92,00               | 9,50             |               |
| TB2          | 72,00                      | 94,00               | 8,00             | GD            |
| TB2          | 72,00                      | 94,00               | 10,00            | GD            |
| HTCL         | 72,00                      | 94,00               | 12,00            |               |
| TC3          | 72,00                      | 94,00               | 12,00            |               |
| SLY          | 72,00                      | 95,00               | 16,00            | GD            |
| TB2          | 72,00                      | 95,50               | 12,00            | GD            |
| HTCCL        | 72,00                      | 96,00               | 9,00             |               |
| HTCL         | 72,00                      | 96,00               | 9,00             |               |
| SA2          | 72,00                      | 100,00              | 12/9,5           | GD            |
| TA2          | 72,00                      | 100,00              | 13,00            | P0            |
| TB2          | 72,00                      | 102,00              | 15,00            | GD            |
| TA2          | 72,00                      | 105,00              | 13,00            | GD            |
| TB2          | 72,00                      | 105,00              | 13,00            | GD            |
| TB2P         | 72,23                      | 101,60              | 15,90            | ND            |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br>Notes |
|--------------|-----------------------------------|----------------------------|-------------------------|---------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |               |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |               |
| SA2          | 72,24                             | 101,68                     | 12,70                   | P0            |
| KA2L4        | 72,62                             | 101,60                     | 17,48                   | GD            |
| KBL4         | 72,62                             | 101,60                     | 18,50                   | GD            |
| BEY          | 72,75                             | 82,45                      | 12,70                   | ND            |
| TAY          | 72,90                             | 98,45                      | 9/15,5                  | SSP5GR        |
| TB2Y         | 72,90                             | 98,45                      | 10,50                   | SSP5GR        |
| TB2          | 73,00                             | 90,00                      | 8,00                    | GD            |
| TB           | 73,00                             | 90,00                      | 10,00                   | GD            |
| TBY          | 73,00                             | 90,00                      | 10/8                    | ND            |
| OVBY         | 73,00                             | 96,10                      | 14,50                   | ND            |
| HTCL         | 73,00                             | 97,00                      | 12,00                   |               |
| TB2          | 73,00                             | 100,00                     | 10,00                   | GD            |
| TB           | 73,02                             | 87,30                      | 7,50                    | P0            |
| SA2E         | 73,02                             | 92,02                      | 12,70                   | P5            |
| SBAX2        | 73,02                             | 101,68                     | 19,10                   | ND            |
| DBC5Y        | 73,03                             | 89,69/101                  | 6,35/15,88              | NDGRSS        |
| TA2          | 73,03                             | 92,02                      | 9,50                    | P2            |
| TA2          | 73,03                             | 92,08                      | 9,50                    | P2            |
| SA2          | 73,03                             | 95,25                      | 11,00                   | P5            |
| TA2          | 73,03                             | 95,28                      | 9,50                    | P00           |
| SA2          | 73,03                             | 95,28                      | 11,10                   | P0            |
| TA2          | 73,03                             | 95,28                      | 11,10                   | P2            |
| SA2          | 73,03                             | 95,28                      | 11,90                   | P2            |
| SA2          | 73,03                             | 95,28                      | 12,70                   | P0            |
| SLY          | 73,03                             | 96,50                      | 7,5/17                  |               |
| VBY          | 73,03                             | 98,43                      | 4,2/6,2                 | ND            |
| TA5Y         | 73,03                             | 98,43/106                  | 8,9/13,1                | P0            |
| OKAE3        | 73,03                             | 98,43                      | 9,50                    | ND            |
| OUBA         | 73,03                             | 98,43                      | 9,50                    | ND            |
| OV2          | 73,03                             | 98,43                      | 9,50                    | ND            |
| TB5          | 73,03                             | 98,43/106                  | 10,10                   | P0            |
| OKBL3        | 73,03                             | 98,43                      | 10,20                   | ND            |
| TB5          | 73,03                             | 98,43/107                  | 11,40                   | ND            |
| TA2          | 73,03                             | 98,45                      | 9,50                    | P0            |
| VBY          | 73,03                             | 99,50                      | 12,5/14,8               | ND            |
| VB21         | 73,03                             | 100,00                     | 6,40                    | ND            |
| SB2          | 73,03                             | 100,00                     | 11,50                   | ND            |
| SA2          | 73,03                             | 101,68                     | 11,90                   | P0            |
| SA2          | 73,03                             | 101,68                     | 12,70                   | P0            |
| SB2          | 73,03                             | 101,68                     | 15,00                   | GD            |
| SA2Y         | 73,03                             | 101,68                     | 19,10                   | GD            |
| SA2Y         | 73,03                             | 104,78                     | 11,1/20,6               | P0            |
| SA2S         | 73,03                             | 106,05                     | 9,5/20,6                | GD            |
| TAY          | 73,03                             | 106,05                     | 9,5/20,6                | P0            |
| TB2          | 73,03                             | 110,00                     | 11,10                   | P5RD          |
| PS11         | 73,03                             | 148,41                     | 6,90                    |               |
| TB2          | 73,06                             | 101,15                     | 9,50                    | ND            |
| TA2Y         | 73,06                             | 103,82                     | 11,1/14                 | P5            |
| TBA          | 73,06                             | 103,82                     | 11,1/14                 | P5            |
| TB           | 73,20                             | 87,15                      | 7,40                    | P0            |
| SC5AY        | 73,69                             | 93,9/99,5                  | 9,30                    | SS            |
| SC5Y         | 73,69                             | 93,9/99,5                  | 9,30                    | SS            |
| HTBCWL       | 74,00                             | 88,00                      | 8,00                    | NDGR          |
| HTCWR        | 74,00                             | 88,00                      | 8,00                    |               |
| HTCR         | 74,00                             | 89,00                      | 7,00                    |               |
| HTBL         | 74,00                             | 90,00                      | 10,00                   | ND            |
| SB           | 74,00                             | 90,00                      | 10,00                   |               |
| HTCKL        | 74,00                             | 97,00                      | 12,00                   |               |
| HTCR         | 74,00                             | 97,00                      | 13,00                   |               |
| HTCR         | 74,00                             | 98,00                      | 12,00                   | SS            |
| TB2          | 74,00                             | 100,00                     | 10,00                   | GD            |
| SA2          | 74,00                             | 114,00                     | 11,00                   | GD            |
| TAY          | 74,00                             | 116,00                     | 10/16                   | GD            |
| TC3Y         | 74,00                             | 142,00                     | 14,00                   |               |
| TCY          | 74,00                             | 142,50                     | 17,50                   |               |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br><i>Notes</i> |
|--------------|-----------------------------------|----------------------------|-------------------------|----------------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |                      |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |                      |
| TCSY         | 74,00                             | 156/161,5                  | 18,80                   |                      |
| TB42         | 74,60                             | 101,68                     | 15,72                   | SSP5                 |
| VB2Y         | 74,61                             | 93,20                      | 5,50                    | ND                   |
| HSBCR        | 74,61                             | 95,00                      | 11,10                   | ND                   |
| HSBCRA       | 74,61                             | 95,00                      | 11,10                   | ND                   |
| DC           | 74,61                             | 95,25                      | 9,50                    |                      |
| HSCL         | 74,61                             | 95,25                      | 9,50                    |                      |
| HTCL         | 74,61                             | 95,25                      | 9,50                    | GR                   |
| HTCWL        | 74,61                             | 95,25                      | 9,50                    | GR                   |
| TA2          | 74,61                             | 100,00                     | 12,70                   | P0                   |
| TB2          | 74,61                             | 101,60                     | 11,10                   | GD                   |
| TB2          | 74,61                             | 101,68                     | 11,90                   | P2                   |
| TB2          | 74,61                             | 104,78                     | 9,50                    | SSP2                 |
| TA2          | 74,61                             | 114,27                     | 11,90                   | P0                   |
| TB2          | 74,63                             | 95,28                      | 9,50                    | P2                   |
| SA2          | 74,63                             | 95,28                      | 12,70                   | P0                   |
| SLBC         | 75,00                             | 77/108,5                   | 15,00                   | ND                   |
| OKB          | 75,00                             | 83/88                      | 4/5                     |                      |
| OKB          | 75,00                             | 88,00                      | 6,00                    | ND                   |
| VAY          | 75,00                             | 90,00                      | 4,00                    | GD                   |
| SB           | 75,00                             | 90,00                      | 7,00                    | GD                   |
| HTCWR        | 75,00                             | 90,00                      | 8,00                    | SS                   |
| OVY          | 75,00                             | 90,00                      | 10,00                   |                      |
| OVY          | 75,00                             | 90,00                      | 12,00                   |                      |
| HTCL         | 75,00                             | 92,00                      | 12,00                   |                      |
| HTCL         | 75,00                             | 93,00                      | 9,00                    |                      |
| HTCL         | 75,00                             | 94,00                      | 10,00                   |                      |
| SB           | 75,00                             | 95,00                      | 5,00                    | GD                   |
| TB2          | 75,00                             | 95,00                      | 7,00                    | SSSGD                |
| TC2W         | 75,00                             | 95,00                      | 7,00                    | SSS                  |
| HTCWL        | 75,00                             | 95,00                      | 8,00                    |                      |
| HSB2R        | 75,00                             | 95,00                      | 9,50                    | SSP11RD              |
| DC           | 75,00                             | 95,00                      | 10,00                   |                      |
| HTCL         | 75,00                             | 95,00                      | 10,00                   |                      |
| SCI          | 75,00                             | 95,00                      | 10,00                   | SS                   |
| SCW          | 75,00                             | 95,00                      | 10,00                   | SSLF                 |
| TB2          | 75,00                             | 95,00                      | 10,00                   | GD                   |
| TBC          | 75,00                             | 95,00                      | 10,00                   | NDGR                 |
| TC7          | 75,00                             | 95,00                      | 10/14                   |                      |
| HSCWL        | 75,00                             | 95,00                      | 12,00                   |                      |
| HTCWL        | 75,00                             | 95,00                      | 12,00                   |                      |
| SA2          | 75,00                             | 95,00                      | 13,00                   | GD                   |
| TA2          | 75,00                             | 95,00                      | 13,00                   | GD                   |
| TBR          | 75,00                             | 95,00                      | 13,00                   | GD                   |
| TB           | 75,00                             | 96,00                      | 11,00                   | GD                   |
| TB2          | 75,00                             | 96,00                      | 11,20                   | ND                   |
| TC7          | 75,00                             | 97,00                      | 9/13                    |                      |
| SLY          | 75,00                             | 99/104                     | 8,00                    | ND                   |
| Y            | 75,00                             | 99,80                      | 11/23,5                 | ND                   |
| VP           | 75,00                             | 100,00                     | 4,5/10                  |                      |
| HTCL         | 75,00                             | 100,00                     | 8,50                    |                      |
| HTB2R        | 75,00                             | 100,00                     | 10,00                   | SSND                 |
| HTB7YR       | 75,00                             | 100,00                     | 10/18,8                 | GD                   |
| HTBCL        | 75,00                             | 100,00                     | 10,00                   | NDGR                 |
| SA2          | 75,00                             | 100,00                     | 10,00                   | GD                   |
| SB2          | 75,00                             | 100,00                     | 10,00                   | P2                   |
| SCI          | 75,00                             | 100,00                     | 10,00                   |                      |
| TB2          | 75,00                             | 100,00                     | 10,00                   | P9                   |
| TBC          | 75,00                             | 100,00                     | 10,00                   | ND                   |
| VAFE         | 75,00                             | 100,00                     | 10,00                   | GD                   |
| HTB2R        | 75,00                             | 100,00                     | 12,00                   | ND                   |
| TB3YR        | 75,00                             | 100,00                     | 12/13                   | SSGD                 |
| HTB7L        | 75,00                             | 100,00                     | 13/19                   | GD                   |
| HTB7R        | 75,00                             | 100,00                     | 13/18                   | GD                   |
| HTC7R        | 75,00                             | 100,00                     | 13/20                   |                      |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note   |  |
|--------------|----------------------------|------------------|---------------|--------|--|
|              | Diametro Diameter          |                  | Altezza Width |        |  |
|              | Interno Internal           | Esterno External |               |        |  |
| HTCL         | 75,00                      | 100,00           | 13,00         |        |  |
| SB2          | 75,00                      | 100,00           | 13,00         | GD     |  |
| TA2          | 75,00                      | 100,00           | 13,00         | GD     |  |
| TB2          | 75,00                      | 100,00           | 13,00         | GD     |  |
| TC6Y         | 75,00                      | 100,00           | 14,50         | SS     |  |
| HTBCWL       | 75,00                      | 100,00           | 17,00         | SSND   |  |
| TA2          | 75,00                      | 101,60           | 16,00         | GD     |  |
| TB2          | 75,00                      | 102,00           | 13,00         | GD     |  |
| TA2          | 75,00                      | 105,00           | 10,00         | GD     |  |
| DC           | 75,00                      | 105,00           | 12,00         |        |  |
| TA2          | 75,00                      | 105,00           | 12,00         | GD     |  |
| TA2          | 75,00                      | 105,00           | 12,00         | ND     |  |
| TA2          | 75,00                      | 105,00           | 13,00         | GD     |  |
| TB2          | 75,00                      | 105,00           | 13,00         | GD     |  |
| HTCL         | 75,00                      | 105,00           | 15,00         |        |  |
| TB2          | 75,00                      | 105,00           | 15,00         | GD     |  |
| TCA          | 75,00                      | 105,00           | 15,00         |        |  |
| HTCWL        | 75,00                      | 107,00           | 8,00          | GR     |  |
| TA9Y         | 75,00                      | 108,00           | 10/20         | GD     |  |
| TA2          | 75,00                      | 108,00           | 13,00         | GD     |  |
| OKC          | 75,00                      | 110,00           | 8,00          |        |  |
| HTC57R       | 75,00                      | 110/120          | 12/18,5       |        |  |
| TB2          | 75,00                      | 110,00           | 13,00         | GD     |  |
| TC42         | 75,00                      | 110,00           | 13,00         |        |  |
| SAVY         | 75,00                      | 112,00           | 10/17,5       | GD     |  |
| SAY          | 75,00                      | 112,00           | 10/17,5       | GD     |  |
| TB2          | 75,00                      | 112,00           | 12,00         | ND     |  |
| KBCK2A       | 75,00                      | 114,00           | 13/16         | ND     |  |
| TAY          | 75,00                      | 115,00           | 12,7/20,5     | GD     |  |
| SA2          | 75,00                      | 115,00           | 13,00         | GD     |  |
| HTCL         | 75,00                      | 120,00           | 12,50         |        |  |
| TB2          | 75,00                      | 121,00           | 13,00         | GD     |  |
| TB7Y         | 75,00                      | 121,00           | 13/23         | GD     |  |
| TBR          | 75,00                      | 121,00           | 13,00         | ND     |  |
| TBC42        | 75,00                      | 125,00           | 13,00         | SS     |  |
| TC42W        | 75,00                      | 130,00           | 6/9           |        |  |
| TC3Y         | 75,00                      | 151,00           | 16,00         |        |  |
| SLWY         | 75,10                      | 95,00            | 16,5/19,7     |        |  |
| TC5Y         | 75,20                      | 100/106          | 10/13         | NDGR   |  |
| HTCWL        | 76,00                      | 92,00            | 9,50          | SS     |  |
| HTCWL        | 76,00                      | 92,00            | 9,50          |        |  |
| HTCL         | 76,00                      | 93,00            | 10,00         |        |  |
| HTCL         | 76,00                      | 94,00            | 8,50          |        |  |
| HTCR         | 76,00                      | 98,00            | 12,00         |        |  |
| TAY          | 76,00                      | 102,00           | 10/18         | GD     |  |
| HTCWL        | 76,00                      | 108,00           | 8,50          | GR     |  |
| OSC          | 76,00                      | 122,00           | 11,00         |        |  |
| TC35Y        | 76,00                      | 157/165          | 8/14          |        |  |
| TC3Y         | 76,00                      | 157,00           | 8/19          |        |  |
| TCY          | 76,17                      | 98,60            | 15,09         |        |  |
| OSCW         | 76,20                      | 84,00            | 10,00         |        |  |
| SB           | 76,20                      | 88,90            | 6,40          | GD     |  |
| OKBY         | 76,20                      | 90/101,5         | 8/12          |        |  |
| DC           | 76,20                      | 95,25            | 9,50          |        |  |
| TA2          | 76,20                      | 95,25            | 9,50          | GD     |  |
| HSCWL        | 76,20                      | 95,25            | 11,10         |        |  |
| VAS          | 76,20                      | 95,28            | 6,40          | P2     |  |
| TB2          | 76,20                      | 95,28            | 9,50          | P0     |  |
| TB2          | 76,20                      | 95,28            | 11,10         | P0     |  |
| HTB45R       | 76,20                      | 95,28            | 11,48         | SSP5   |  |
| SA2          | 76,20                      | 95,28            | 12,70         | GD     |  |
| TA2          | 76,20                      | 95,28            | 12,70         | P0     |  |
| SA2          | 76,20                      | 98,42            | 11,90         | SSGD   |  |
| SA2          | 76,20                      | 98,42            | 11,90         | P5     |  |
| SB2          | 76,20                      | 98,43            | 11,10         | ND     |  |
| TA2          | 76,20                      | 98,43            | 11,10         | GD     |  |
| SA2          | 76,20                      | 98,43            | 12/12,5       | P0     |  |
| TB2          | 76,20                      | 98,43            | 12,70         | GD     |  |
| SB2          | 76,20                      | 98,45            | 7,90          | SSP5RD |  |
| TCJ          | 76,20                      | 98,45            | 7,95          | SS     |  |
| TB2I         | 76,20                      | 101,60           | 9,50          | GD     |  |
| TB2          | 76,20                      | 101,60           | 11,10         | ND     |  |
| TB2Y         | 76,20                      | 101,60           | 11,10         | ND     |  |
| SA2          | 76,20                      | 101,60           | 11,90         | GD     |  |
| SB2          | 76,20                      | 101,60           | 11,90         | GD     |  |
| HTCWR        | 76,20                      | 101,60           | 12,70         |        |  |
| SCI          | 76,20                      | 101,60           | 12,70         | SS     |  |
| TB2I         | 76,20                      | 101,60           | 12,70         | GD     |  |
| TA4          | 76,20                      | 101,60           | 19,05         |        |  |
| SA5Y         | 76,20                      | 101,6/117,46     | 22,30         | ND     |  |
| VB21         | 76,20                      | 101,68           | 6,40          | P2     |  |
| SA2          | 76,20                      | 101,68           | 9,50          | P2     |  |
| TA2          | 76,20                      | 101,68           | 9,50          | POH    |  |
| HTC7Y        | 76,20                      | 101,68           | 11/18,5       | GR     |  |
| HTC7Y        | 76,20                      | 101,68           | 11/18,5       | GR     |  |
| TA2          | 76,20                      | 101,68           | 11,10         | P0     |  |
| TA2          | 76,20                      | 101,68           | 11,10         | ND     |  |
| SA2          | 76,20                      | 101,68           | 11,52         | P0     |  |
| SA2          | 76,20                      | 101,68           | 11,90         | P0     |  |
| TA2          | 76,20                      | 101,68           | 11,90         | P0     |  |
| TA2          | 76,20                      | 101,68           | 11,90         | SSGD   |  |
| SA2          | 76,20                      | 104,78           | 11,10         | P2     |  |
| VB25         | 76,20                      | 107,85           | 7,90          | GD     |  |
| TA2          | 76,20                      | 107,92           | 11,90         | P0     |  |
| PS23         | 76,20                      | 107,95/117,5     | 9,5/11,1      |        |  |
| TB2          | 76,20                      | 107,95           | 11,10         | GD     |  |
| SA2          | 76,20                      | 107,95           | 15,88         | GD     |  |
| TA2          | 76,20                      | 110,00           | 12,70         | P0     |  |
| SA2          | 76,20                      | 114,30           | 11,10         | P2     |  |
| TA2          | 76,20                      | 114,30           | 11,10         | P5     |  |
| TA2          | 76,20                      | 114,30           | 11,90         | P0     |  |
| TB2I         | 76,20                      | 114,30           | 12,70         | GD     |  |
| HTCSI        | 76,20                      | 114,3/121        | 19,00         | GR     |  |
| VB5Y         | 76,20                      | 121,5/132        | 6,00          | ND     |  |
| VB5Y         | 76,20                      | 121,5/132        | 6,00          | ND     |  |
| HTAS5Y       | 76,20                      | 125,41/134,3     | 16,7/19,1     |        |  |
| HTAS5Y       | 76,20                      | 125,41/134,3     | 16,7/19,1     |        |  |
| HTCSY        | 76,20                      | 125,41           | 16,70         |        |  |
| TB5Y         | 76,20                      | 125,43/145       | 19,10         | P0     |  |
| TA2          | 76,20                      | 127,00           | 11,10         | P2     |  |
| TB2I         | 76,20                      | 127,00           | 12,70         | GD     |  |
| VB5Y         | 76,20                      | 136/148,6        | 9,40          | NDGR   |  |
| HTAS5Y       | 76,20                      | 139,7/150,8      | 16,5/2,9      | NDGR   |  |
| HTCSI        | 76,20                      | 139,7/150,8      | 16,50         | NDGR   |  |
| TB5          | 76,20                      | 146,05/158,8     | 20,60         | P0     |  |
| HTCSY        | 76,20                      | 146,06/154       | 10,5/28       | GR     |  |
| HTCSY        | 76,20                      | 146,06/154       | 10,5/28       | GR     |  |
| HTAS5Y       | 76,25                      | 125,4/136,5      | 16,70         | NDGR6  |  |
| HTCSY        | 76,25                      | 125,4/133,8      | 17,20         | NDGR6  |  |
| VB5Y         | 76,25                      | 136,50           | 10,00         | NDGR6  |  |
| HTBC5I       | 76,40                      | 100/107,5        | 11/15         | NDGR   |  |
| HTA42L       | 76,99                      | 95,28/105        | 15,5/24,5     | SSNDGR |  |
| HTB42L       | 76,99                      | 95,28/105        | 15,5/24,5     | SSNDGR |  |
| VB5Y         | 77,00                      | 85,55            | 6,20          | GD     |  |
| SB           | 77,00                      | 85,60            | 4,80          | GD     |  |
| TB           | 77,00                      | 93,00            | 10,00         | GD     |  |
| HSCL         | 77,00                      | 100,00           | 11,50         |        |  |
| HTBCWL       | 77,00                      | 100,00           | 11,50         | ND     |  |
| HTCL         | 77,00                      | 100,00           | 11,50         |        |  |
| TB2          | 77,00                      | 100,00           | 13,00         | GD     |  |
| TAY          | 77,00                      | 102,00           | 10/21         | GD     |  |
| SBWY         | 77,00                      | 113,10           | 21,40         | SSNDGR |  |
| KBCKY        | 77,00                      | 114,00           | 13/14         | ND     |  |
| DB5Y         | 77,30                      | 98,43/108        | 17,96         | SSGR6  |  |
| WY           | 77,78                      | 94,46            | 3,50          |        |  |
| HSCL         | 77,78                      | 95,25            | 11,10         |        |  |
| TCY          | 77,79                      | 103,19           | 9,1/10,3      | SS     |  |
| TB357        | 78,00                      | 91/96            | 5/10,5        | SSGR   |  |
| BO-2         | 78,00                      | 94,00            | 11,00         | ND     |  |
| VB5Y         | 78,00                      | 98,5/104         | 8,5/19        |        |  |
| TA2          | 78,00                      | 98,50            | 12,00         | GD     |  |
| HSCL         | 78,00                      | 100,00           | 10,00         |        |  |
| HTCL         | 78,00                      | 100,00           | 10,00         |        |  |
| TCI          | 78,00                      | 100,00           | 10,00         |        |  |
| HTCKL        | 78,00                      | 100,00           | 12,00         |        |  |
| HTB7L        | 78,00                      | 100,00           | 14/20         | GD     |  |
| TA2          | 78,00                      | 108,00           | 13,00         | P9     |  |
| TA9Y         | 78,00                      | 115,00           | 10/19         | GD     |  |
| TB2I         | 78,00                      | 115,00           | 12,00         | GD     |  |
| TCI          | 78,00                      | 125,00           | 10,00         |        |  |
| TC3Y         | 78,00                      | 162,00           | 16,00         |        |  |
| TC3Y         | 78,00                      | 163,00           | 15,80         |        |  |
| TC3Y         | 78,00                      | 163,00           | 16,00         |        |  |
| OTY          | 78,50                      | 95,00            | 8,20          |        |  |
| OTY          | 78,50                      | 95,00            | 8,20          |        |  |
| Y            | 78,58                      | 129,00           | 30,60         |        |  |
| HSCWL        | 78,95                      | 95,40            | 11,10         |        |  |
| SB2          | 78,97                      | 113,03           | 10,00         | ND     |  |
| SA5          | 78,97                      | 146,84/209,55    | 12,70         |        |  |
| SLBC         | 79,00                      | 81/108,5         | 15,00         | ND     |  |
| KBCK2A       | 79,00                      | 114,00           | 13/16         | ND     |  |
| TC5WY        | 79,30                      | 98,43/106        | 12,30         | NDGR1  |  |
| SA2          | 79,37                      | 107,95           | 11,88         | GD     |  |
| TA2          | 79,37                      | 107,95           | 12,70         | GD     |  |
| HTBCWL       | 79,38                      | 95,25            | 11,10         | SSND   |  |
| HTCWL        | 79,38                      | 95,25            | 11,10         |        |  |
| HSBR         | 79,38                      | 97,00            | 9,00          | ND     |  |
| VCF          | 79,38                      | 98,43            | 6,40          |        |  |
| SBR          | 79,38                      | 99,00            | 9,40          | ND     |  |
| HTCWL        | 79,38                      | 99,22            | 9,50          |        |  |
| SA2          | 79,38                      | 100,01           | 13,10         | SSP0   |  |
| TA2          | 79,38                      | 101,60           | 11,90         | ND     |  |
| TA2          | 79,38                      | 101,60           | 12,70         | GD     |  |
| DA2          | 79,38                      | 101,60           | 20,07         | ND     |  |
| TB2          | 79,38                      | 101,67           | 9,50          | ND     |  |
| TA2          | 79,38                      | 101,68           | 9,50          | P2     |  |
| DA           | 79,38                      | 101,68           | 20,07         | GD     |  |
| TA2          | 79,38                      | 104,78           | 11,10         | ND     |  |
| TA2          | 79,38                      | 104,78           | 12,70         | P0     |  |
| SA2E         | 79,38                      | 104,78           | 14,27         | P5     |  |
| TB2          | 79,38                      | 104,78           | 14,30         | GD     |  |
| KB2          | 79,38                      | 106,00           | 7,40          | ND     |  |
| TA2          | 79,38                      | 111,13           | 12,70         | P0     |  |
| TA2          | 79,38                      | 114,30           | 12,70         | P0     |  |
| TA2          | 79,38                      | 114,30           | 15,90         | GD     |  |
| HSAY         | 79,38                      | 115,87           | 19,05         | ND     |  |
| TB2I         | 79,38                      | 117,48           | 12,70         | GD     |  |
| TA2          | 79,38                      | 117,50           | 11,10         | P0     |  |
| TB2I         | 79,38                      | 120,65           | 12,70         | GD     |  |
| TA2          | 79,38                      | 127,00           | 11,88         | P0     |  |
| SA2          | 79,38                      | 127,10           | 11,10         | P5     |  |
| SA2          | 79,38                      | 133,38           | 11,10         | P2     |  |
| OU           | 79,50                      | 88,90            | 10,30         |        |  |
| TA3Y         | 79,50                      | 113,00           | 12/22         | GD     |  |
| KB35         | 79,58                      | 90,09/96,5       | 6,4/9,3       | ND     |  |
| KB35         | 79,80                      | 94,82/103        | 12,2/14,4     | ND     |  |
| VB5Y         | 80,00                      | 87,80            | 3,7/5,1       | ND     |  |
| VP           | 80,00                      | 90,00            | 4,80          |        |  |
| KAX3         | 80,00                      | 90,00            | 9,5/10,6      | ND     |  |
| VB5Y         | 80,00                      | 90,00            | 10,20         | ND     |  |
| VAY          | 80,00                      | 95,00            | 4,00          | GD     |  |
| HTCL         | 80,00                      | 96,00            | 7,50          |        |  |
| VB5Y         | 80,00                      | 96,00            | 8,00          | ND     |  |
| HTCL         | 80,00                      | 96,00            | 9,00          |        |  |
| VB57         | 80,00                      | 96/100           | 10/17         | ND     |  |
| HTBCL        | 80,00                      | 98,00            | 10,00         | NDGR   |  |
| HTC3L        | 80,00                      | 98,00            | 10,00         |        |  |
| HTCL         | 80,00                      | 98,00            | 10,00         | SS     |  |
| HTCL         | 80,00                      | 98,00            | 10,00         |        |  |
| HTCL         | 80,00                      | 98,00            | 10,00         |        |  |
| XICY1        | 80,00                      | 98,5/103         | 6/18          |        |  |
| HTCR         | 80,00                      | 100,00           | 7,00          |        |  |
| VCA          | 80,00                      | 100,00           | 7/9,5         |        |  |
| HTCWL        | 80,00                      | 100,00           | 8,00          |        |  |
| HTCWL        | 80,00                      | 100,00           | 8,00          |        |  |
| HSC5YL       | 80,00                      | 100/105          | 8,5/10        |        |  |
| HTCL         | 80,00                      | 100,00           | 8,50          |        |  |
| DC           | 80,00                      | 100,00           | 10,00         |        |  |
| HSB2R        | 80,00                      | 100,00           | 10,00         | ND     |  |
| HTB2L        | 80,00                      | 100,00           | 10,00         | P5     |  |
| HTCL         | 80,00                      | 100,00           | 10,00         |        |  |
| HTCR         | 80,00                      | 100,00           | 10,00         |        |  |
| HTCWL        | 80,00                      | 100,00           | 10,00         |        |  |
| SCI          | 80,00                      | 100,00           | 10,00         | SS     |  |
| TB2          | 80,00                      | 100,00           | 10,00         | SSSND  |  |
| TBI          | 80,00                      | 100,00           | 10,00         | GD     |  |
| TC42         | 80,00                      | 100,00           | 10/11         | SS     |  |
| TC5          | 80,00                      | 100/106          | 10/11         |        |  |
| TC9          | 80,00                      | 100,00           | 10/14         |        |  |
| TCI          | 80,00                      | 100,00           | 10,00         |        |  |
| DC           | 80,00                      | 100,00           | 12,00         |        |  |
| HTB2R        | 80,00                      | 100,00           | 12,00         | P9     |  |
| HTCL         | 80,00                      | 100,00           | 12,00         |        |  |
| HTCWR        | 80,00                      | 100,00           | 12,00         | SS     |  |
| TA2          | 80,00                      | 100,00           | 12,00         | GD     |  |
| HSCL         | 80,00                      | 100,00           | 13,00         |        |  |
| HSCWL        | 80,00                      | 100,00           | 13,00         |        |  |
| HTA42        | 80,00                      | 100,00           | 13,00         | SSP9   |  |
| HTCL         | 80,00                      | 100,00           | 13,00         | GR     |  |
| SB2          | 80,00                      | 100,00           | 13,00         | GD     |  |
| TA2          | 80,00                      | 100,00           | 13,00         | GD     |  |
| TB2          | 80,00                      | 100,00           | 13,00         | P9     |  |
| OTC          | 80,00                      | 100,30           | 10,00         | SSLF   |  |
| VCY          | 80,00                      | 101,00           | 2/5,3         |        |  |
| TB5Y         | 80,00                      | 101/106          | 9/10,2        | ND     |  |
| KCY          | 80,                        |                  |               |        |  |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TCY          | 80,00                      | 108,10           | 14,50         |               |
| HTCL         | 80,00                      | 110,00           | 8,50          | GR            |
| TB2I         | 80,00                      | 110,00           | 10,00         | GD            |
| TCW          | 80,00                      | 110,00           | 12,00         |               |
| HTB2L        | 80,00                      | 110,00           | 13,00         | P9            |
| TA2          | 80,00                      | 110,00           | 13,00         | GD            |
| TB2          | 80,00                      | 110,00           | 13,00         | GD            |
| TB2          | 80,00                      | 110,00           | 13,00         | GD            |
| HTB2L        | 80,00                      | 110,05           | 12,00         | P9            |
| TAY          | 80,00                      | 113,00           | 12/22         | GD            |
| TAY          | 80,00                      | 113,00           | 12/19         | GD            |
| KB2          | 80,00                      | 115,00           | 6,00          | ND            |
| TB2          | 80,00                      | 115,00           | 15,00         | GD            |
| TB2          | 80,00                      | 120,00           | 13,00         | GD            |
| TBY          | 80,00                      | 122,00           | 10/18         | GD            |
| HTAYR        | 80,00                      | 124,00           | 10/26         | GD            |
| TB2I         | 80,00                      | 125,00           | 12,00         | GD            |
| TCI          | 80,00                      | 125,00           | 12,00         |               |
| HTB7R        | 80,00                      | 127,00           | 16/24         | GD            |
| TA2          | 80,00                      | 130,00           | 13,00         | GD            |
| TCY          | 80,00                      | 135,00           | 12/25         |               |
| HTB57R       | 80,00                      | 135/146          | 13/25         | ND            |
| HTAYR        | 80,00                      | 136,00           | 10/26         | GD            |
| OSB          | 80,00                      | 140,00           | 10,00         | ND            |
| HTBYR        | 80,00                      | 143,00           | 10/37         | GD            |
| HTARY        | 80,00                      | 150,00           | 12/20         | SSP9          |
| HTAYR        | 80,00                      | 162,00           | 12/42         | P0            |
| HSC          | 80,16                      | 98,55            | 9,50          |               |
| KB35         | 80,17                      | 94,8/103,3       | 12,70         | ND            |
| OVBY         | 80,50                      | 85,00            | 6,00          | ND            |
| TA5          | 80,77                      | 106,17/112,5     | 12,7/19       | P0            |
| HTA5Y        | 80,77                      | 106,17/113       | 19,05         | P0            |
| HSCL         | 80,96                      | 98,43            | 12,70         |               |
| TB2I         | 80,96                      | 107,95           | 12,70         | GD            |
| TB2I         | 80,96                      | 117,48           | 11,23         | P0            |
| SA2          | 80,96                      | 117,48           | 14,30         | GD            |
| SA2          | 80,96                      | 120,65           | 12,70         | ND            |
| BY           | 81,00                      | 97,80            | 9,10          | ND            |
| HTBCL        | 81,00                      | 100,10           | 11,50         | NDGR          |
| KBCKY        | 81,00                      | 114,00           | 13/14         | ND            |
| TA2Y         | 81,70                      | 121,00           | 12/19         | GD            |
| HTCWL        | 82,00                      | 96,28            | 8,00          | SS            |
| HSCL         | 82,00                      | 98,43            | 12,70         |               |
| HTCWL        | 82,00                      | 99,50            | 12,70         |               |
| TB           | 82,00                      | 100,00           | 13,00         | GD            |
| HTCSL        | 82,00                      | 105/110          | 10,00         |               |
| HSCWL        | 82,00                      | 105,00           | 12,00         | SS            |
| HTCSL        | 82,00                      | 105/110          | 13,00         |               |
| TA2          | 82,00                      | 108,00           | 13,00         | GD            |
| TCY          | 82,00                      | 114,30           | 16,00         |               |
| TA2          | 82,00                      | 114,50           | 13,00         | GD            |
| TAY          | 82,00                      | 116,00           | 9,5/20        | GD            |
| TC5          | 82,00                      | 125/137          | 10/13         |               |
| VB5Y         | 82,04                      | 114,3/121,98     | 5,70          | SS            |
| SA2          | 82,09                      | 104,78           | 14,30         | P0            |
| SL5          | 82,50                      | 87/120           | 8,7/10,5      | GD            |
| SL5          | 82,50                      | 138,00           | 12,00         | GD            |
| VCF          | 82,55                      | 92,02            | 4,80          |               |
| VBR          | 82,55                      | 92,08            | 4,80          | P2            |
| HSB2R        | 82,55                      | 98,45            | 9,50          | SSP5RD        |
| TB           | 82,55                      | 100,08           | 6,40          | GD            |
| SB2          | 82,55                      | 101,60           | 9,50          | ND            |
| TA2          | 82,55                      | 101,60           | 11,90         | P0            |
| TBI          | 82,55                      | 101,60           | 12,70         | GD            |
| TA2          | 82,55                      | 101,68           | 11,90         | ND            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TA2          | 82,55                      | 107,70           | 12,70         | P0            |
| TA2          | 82,55                      | 107,92           | 9,50          | ND            |
| TA2          | 82,55                      | 107,92           | 11,10         | P2            |
| TA2          | 82,55                      | 107,92           | 11,90         | ND            |
| TA42         | 82,55                      | 107,93           | 9,50          | SSNDGR        |
| TB2          | 82,55                      | 107,95           | 9,50          | P2            |
| SA2          | 82,55                      | 107,95           | 11,90         | P0            |
| TB2I         | 82,55                      | 107,95           | 12,70         | GD            |
| TB2Y         | 82,55                      | 109,96           | 12,70         | P2RD          |
| SB5Y         | 82,55                      | 110,8/133,35     | 14,00         | ND            |
| TA2          | 82,55                      | 111,15           | 12,70         | P0            |
| TA2Y         | 82,55                      | 114,30           | 12,7/13       | P0            |
| TB2          | 82,55                      | 114,30           | 12,70         | GD            |
| TCI          | 82,55                      | 114,30           | 12,70         |               |
| SA2          | 82,55                      | 117,50           | 11,10         | P2            |
| TA2          | 82,55                      | 117,65           | 12,70         | P0            |
| TB2I         | 82,55                      | 120,65           | 12,70         | GD            |
| PSA3         | 82,55                      | 123,83/166,68    | 9,9/23        | ND            |
| PSA3         | 82,55                      | 123,83/166,68    | 9,9/23        | ND            |
| PSX3         | 82,55                      | 123,83           | 23,00         | ND            |
| PSX3         | 82,55                      | 123,83           | 23,00         | ND            |
| DCY          | 82,55                      | 136,53           | 28,70         |               |
| TA2          | 82,55                      | 139,70           | 12,70         | P0            |
| HTCL         | 83,00                      | 100,00           | 9,00          | SS            |
| HTCL         | 83,00                      | 100,00           | 9,00          | SSGR          |
| OKC4         | 83,34                      | 125,42           | 6,30          |               |
| VB5          | 83,34                      | 134,7/150        | 6,00          |               |
| HTCSI        | 83,34                      | 139,7/153        | 16,50         | ND            |
| HTA5Y        | 83,34                      | 139,7/153        | 19,05         |               |
| VY           | 83,35                      | 94,46            | 2,50          |               |
| VCE          | 83,49                      | 99,44            | 5,80          |               |
| Y            | 83,50                      | 92,8/108         | 25,50         | ND            |
| PY           | 83,60                      | 113,00           | 5/10,5        |               |
| HTCL         | 84,00                      | 97,00            | 9,00          | GR            |
| HTCWL        | 84,00                      | 97,00            | 9/10          | SS            |
| TB           | 84,00                      | 100,00           | 10,00         | GD            |
| TB3          | 84,00                      | 100,00           | 10,00         | GD            |
| HTCL         | 84,00                      | 104,00           | 8,50          | SS            |
| HTCL         | 84,00                      | 104,00           | 11,00         |               |
| SA2          | 84,00                      | 111,13           | 16,80         | P0            |
| SBY          | 84,12                      | 101,00           | 5,2/11        | ND            |
| DCSWAJ       | 84,12                      | 104,78           | 11,18/14      |               |
| SC5YJ        | 84,12                      | 104,78           | 11,18         |               |
| TA2          | 84,12                      | 120,68           | 12,70         | P2            |
| TA2          | 84,14                      | 107,92           | 12,70         | P0            |
| TC40         | 84,23                      | 103,98           | 12,70         | SS            |
| SA2Y         | 84,60                      | 128,14           | 11/20,3       | GD            |
| TB2          | 84,93                      | 108,74           | 10,70         | ND            |
| VAY          | 85,00                      | 100,00           | 4,00          | GD            |
| TCW          | 85,00                      | 100,00           | 9,00          | SS            |
| TB           | 85,00                      | 100,00           | 12,00         | GD            |
| SB           | 85,00                      | 100,00           | 13,00         | GD            |
| TC4          | 85,00                      | 100,00           | 18,00         |               |
| HTCL         | 85,00                      | 102,00           | 12,00         |               |
| HTCL         | 85,00                      | 103,00           | 8,00          |               |
| HTCWL        | 85,00                      | 105,00           | 9,00          |               |
| HTCI         | 85,00                      | 105,00           | 9,50          | SS            |
| HSB2L        | 85,00                      | 105,00           | 10,00         | SSGD          |
| HTCL         | 85,00                      | 105,00           | 10,00         |               |
| SBCWL        | 85,00                      | 105,00           | 10,00         | ND            |
| TB2          | 85,00                      | 105,00           | 10,00         | GD            |
| HTCWL        | 85,00                      | 105,00           | 11,00         | SS            |
| HTBCWL       | 85,00                      | 105,00           | 12,00         | ND            |
| HTCL         | 85,00                      | 105,00           | 12,00         |               |
| HTCWL        | 85,00                      | 105,00           | 12,00         |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| HTCWL        | 85,00                      | 105,00              | 12,00            |               |
| SB2          | 85,00                      | 105,00              | 12,00            | GD            |
| TB           | 85,00                      | 105,00              | 12,00            | GD            |
| TCW          | 85,00                      | 105,00              | 12,00            |               |
| HTA42        | 85,00                      | 105,00              | 13,00            | SSP9          |
| HTCL         | 85,00                      | 105,00              | 13,00            |               |
| TA2          | 85,00                      | 105,00              | 13,00            | GD            |
| SB2          | 85,00                      | 105,00              | 15,00            |               |
| SL16         | 85,00                      | 108,00              | 13/14,5          | SSGDGR        |
| TCY          | 85,00                      | 108,00              | 14,50            |               |
| SCW          | 85,00                      | 110,00              | 10,00            | SSLF          |
| TCW          | 85,00                      | 110,00              | 10,00            |               |
| SCI          | 85,00                      | 110,00              | 12,00            | SS            |
| TBC9Y        | 85,00                      | 110,00              | 12/17            | SSNDGR        |
| TCI          | 85,00                      | 110,00              | 12,00            |               |
| HTB57R       | 85,00                      | 110/117             | 13/20            | ND            |
| HTCL         | 85,00                      | 110,00              | 13,00            |               |
| SB2          | 85,00                      | 110,00              | 13,00            | GD            |
| TB2          | 85,00                      | 110,00              | 13,00            | GD            |
| TB2          | 85,00                      | 110,00              | 14,00            | GD            |
| TA2          | 85,00                      | 114,50              | 13,00            | GD            |
| HTCWL        | 85,00                      | 117,00              | 8,00             |               |
| TCI          | 85,00                      | 125,00              | 12,00            |               |
| TA2          | 85,00                      | 127,00              | 13,00            | GD            |
| TA2Y         | 85,00                      | 127,00              | 13,00            | GD            |
| SAY          | 85,00                      | 128,00              | 11/21            | GD            |
| TCI          | 85,00                      | 130,00              | 10,00            |               |
| SCI          | 85,00                      | 130,00              | 12,00            | SS            |
| TB2I         | 85,00                      | 130,00              | 12,00            | GD            |
| TC35A        | 85,35                      | 110/115             | 6,5/8,1          | SSSGR         |
| KBC          | 85,35                      | 110,00              | 6,80             | ND            |
| RING         | 85,60                      | 94,50               | 2,30             |               |
| SC5AY        | 85,60                      | 110/115,6           | 11,70            | SS            |
| SC5Y         | 85,60                      | 110/115,6           | 11,70            | SS            |
| SA2          | 85,72                      | 107,95              | 12,70            | P0            |
| TCF          | 85,73                      | 100,26              | 9,50             |               |
| HSCL         | 85,73                      | 107,95              | 11,10            |               |
| TB2I         | 85,73                      | 107,95              | 12,70            | GD            |
| HSCWL        | 85,73                      | 108,36              | 11,50            |               |
| TA2          | 85,73                      | 111,10              | 11,10            | ND            |
| SA2          | 85,73                      | 111,10              | 15,90            | GD            |
| TA2          | 85,73                      | 111,10              | 15,90            | GD            |
| SA2          | 85,73                      | 111,13              | 12,70            | P2            |
| TA2Y         | 85,73                      | 111,15              | 9,5/10           | P0            |
| TB2          | 85,73                      | 111,15              | 9,50             | PORD          |
| TB2          | 85,73                      | 111,15              | 9,50             | P2            |
| TBR          | 85,73                      | 111,15              | 9,50             | POH           |
| SA2          | 85,73                      | 117,50              | 11,10            | P2            |
| TB2I         | 85,73                      | 120,65              | 12,70            | GD            |
| TB2          | 85,73                      | 120,68              | 9,50             | P2            |
| TA2          | 85,73                      | 126,97              | 11,90            | P0            |
| TB2          | 85,73                      | 127,00              | 11,90            | GD            |
| TB2I         | 85,73                      | 127,00              | 12,70            | GD            |
| SA2          | 85,73                      | 130,18              | 12,70            | GD            |
| HTCL         | 86,00                      | 100,00              | 10,00            | SS            |
| HTCL         | 86,00                      | 103,00              | 10,00            |               |
| HTCWL        | 86,00                      | 104,00              | 11,00            | NDGR          |
| HTCL         | 86,00                      | 104,00              | 11,00            | SS            |
| VCYW         | 86,00                      | 105,00              | 5/6              |               |
| DC           | 86,00                      | 120,00              | 10/15,5          | SS            |
| HTB7R        | 86,00                      | 127,00              | 16/24            | GD            |
| HTBWYR       | 86,00                      | 143,00              | 10/37            | GD            |
| VBY          | 86,50                      | 93,45               | 9,8/18           | ND            |
| HTCL         | 87,00                      | 100,00              | 8,00             | SS            |
| TCS          | 87,00                      | 142,90              | 9/10             | GR            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TCS          | 87,00                      | 142,90           | 11,00         | GR            |
| TC35         | 87,15                      | 110/115          | 6,5/8,1       | SSGR          |
| TB2          | 87,30                      | 114,33           | 9,50          | P0            |
| SLY          | 87,31                      | 92,47            | 19,5/22,5     | GD            |
| OSCY         | 87,31                      | 103,00           | 12,00         | GR            |
| TB2          | 87,31                      | 114,30           | 12,70         | GD            |
| TA2          | 87,31                      | 117,48           | 12,70         | SSP0          |
| TA2          | 87,31                      | 120,80           | 14,28         | P2            |
| HTC3WL       | 87,33                      | 107,95           | 11,10         |               |
| KAY          | 87,33                      | 122,43           | 19,60         | ND            |
| VBY          | 88,00                      | 97,00            | 2/3,7         | ND            |
| OVBY         | 88,00                      | 97,00            | 3,70          |               |
| HTCWL        | 88,00                      | 104,00           | 8,50          | GR            |
| HTCL         | 88,00                      | 106,00           | 8,50          |               |
| HTBCWL       | 88,00                      | 108,00           | 11,00         | ND            |
| HTCWL        | 88,00                      | 108,00           | 11,00         |               |
| TA2          | 88,00                      | 115,00           | 13,00         | GD            |
| SL5          | 88,90                      | 95/121           | 11,5/13,8     | GD            |
| SB           | 88,90                      | 101,73           | 6,40          | ND            |
| OSCY         | 88,90                      | 105,00           | 12,50         | GR            |
| VB2Y         | 88,90                      | 108,35           | 5,60          | ND            |
| HSB2R        | 88,90                      | 110,11           | 9,50          | SSP1RD        |
| HSBCR        | 88,90                      | 110,11           | 11,10         | ND            |
| HSBCRA       | 88,90                      | 110,11           | 11,10         | ND            |
| TBA          | 88,90                      | 111,13           | 7,5/9,5       | P0            |
| SA2E         | 88,90                      | 111,13           | 12,70         | SSGD          |
| TA2          | 88,90                      | 111,13           | 12,70         | P0            |
| OTC          | 88,90                      | 111,70           | 12,3/11,3     | GR            |
| VBY          | 88,90                      | 113,03           | 7,9/13,3      | ND            |
| SA2          | 88,90                      | 114,27           | 11,90         | P0            |
| SB2          | 88,90                      | 114,30           | 9,50          | P5RD          |
| TAY          | 88,90                      | 114,3/133,35     | 9,5/18,7      | P5            |
| SB2          | 88,90                      | 114,30           | 11,10         | P2            |
| TA2          | 88,90                      | 114,30           | 11,10         | GD            |
| TB2          | 88,90                      | 114,30           | 11,90         | ND            |
| DCP          | 88,90                      | 114,30           | 12,70         | SS            |
| TBCW         | 88,90                      | 114,30           | 12,70         | NDGR          |
| TCI          | 88,90                      | 114,30           | 12,70         |               |
| TA2          | 88,90                      | 114,33           | 11,90         | ND            |
| SL           | 88,90                      | 117,00           | 16,00         | ND            |
| SA2          | 88,90                      | 117,48           | 12,70         | ND            |
| TA2          | 88,90                      | 117,50           | 15,88         | ND            |
| VB21         | 88,90                      | 120,65           | 6,40          | ND            |
| DA           | 88,90                      | 120,65           | 14,27         | GD            |
| TB2          | 88,90                      | 120,65           | 15,88         | GD            |
| TB2          | 88,90                      | 120,68           | 9,52          | P0            |
| TA2          | 88,90                      | 120,68           | 11,10         | SSP2          |
| TB2          | 88,90                      | 120,70           | 9,50          | P5RD          |
| SA2Y         | 88,90                      | 122,96           | 22,23         | P0            |
| TAY          | 88,90                      | 122,99           | 12,7/22,94    | P0            |
| TB2Y         | 88,90                      | 122,99           | 12,7/22,94    | PD            |
| TB2I         | 88,90                      | 123,83           | 12,70         | GD            |
| TA2          | 88,90                      | 126,97           | 11,10         | P2            |
| SB2          | 88,90                      | 127,00           | 11,90         | PORD          |
| TB2I         | 88,90                      | 127,00           | 12,70         | GD            |
| TB2I         | 88,90                      | 130,18           | 12,70         | GD            |
| TA2          | 88,90                      | 130,20           | 12,70         | POH           |
| TB2          | 88,90                      | 130,20           | 15,90         | P0            |
| SA2          | 88,90                      | 133,35           | 11,10         | P2            |
| SB2          | 88,90                      | 161,93           | 9,50          | GD            |
| HTCL         | 89,00                      | 105,00           | 10,00         | SS            |
| HTCL         | 89,00                      | 109,00           | 9/10,3        |               |
| TA5Y         | 89,70                      | 119,86/126,2     | 11,9/15,9     | SS            |
| TB5Y         | 89,70                      | 119,86/126,2     | 11,90         | SSND          |
| HKCW         | 90,00                      | 104,00           | 11,00         |               |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTBCL        | 90,00                      | 104,00           | 11,00         | ND            |
| HTBCL        | 90,00                      | 104,00           | 11/9          | ND            |
| HTCWL        | 90,00                      | 104,00           | 11,00         | SS            |
| VAY          | 90,00                      | 105,00           | 4,00          | GD            |
| HTCL         | 90,00                      | 105,00           | 8,00          | GR            |
| HTCW         | 90,00                      | 105,00           | 10/9,5        |               |
| VB57         | 90,00                      | 107/111          | 10/12,5       | ND            |
| HTCWL        | 90,00                      | 110,00           | 7,00          |               |
| HTCWR        | 90,00                      | 110,00           | 7,00          |               |
| TB2Y         | 90,00                      | 110,00           | 7/13          | GD            |
| TCW          | 90,00                      | 110,00           | 8,00          | SSLF          |
| HTC7L        | 90,00                      | 110,00           | 9/11,5        |               |
| HTCL         | 90,00                      | 110,00           | 9,00          | SS            |
| HTBCL        | 90,00                      | 110,00           | 10,00         | NDGR          |
| HTCL         | 90,00                      | 110,00           | 10,00         | GR            |
| TB23         | 90,00                      | 110,00           | 10,00         | GD            |
| TB2I         | 90,00                      | 110,00           | 10,00         | GD            |
| HTCSL        | 90,00                      | 110/154          | 10,3/13       | ND            |
| HTCSL        | 90,00                      | 110/170          | 10,3/13       |               |
| HSCWL        | 90,00                      | 110,00           | 11,00         |               |
| HTCR         | 90,00                      | 110,00           | 11,00         |               |
| HTCWL        | 90,00                      | 110,00           | 11,00         |               |
| HTBCWL       | 90,00                      | 110,00           | 12,00         | ND            |
| TA2          | 90,00                      | 110,00           | 12,00         | GD            |
| TCI          | 90,00                      | 110,00           | 12,00         |               |
| TA2          | 90,00                      | 110,00           | 13,00         | GD            |
| TB           | 90,00                      | 110,00           | 13,00         | GD            |
| HTC3WL       | 90,00                      | 110,00           | 15,00         |               |
| HTCL         | 90,00                      | 110,00           | 15,00         |               |
| TA2          | 90,00                      | 110,00           | 15,00         | GD            |
| TBC16        | 90,00                      | 110,00           | 15,00         | NDGR          |
| TA2          | 90,00                      | 112,70           | 12,70         | GD            |
| TA2          | 90,00                      | 112,70           | 13,00         | GD            |
| HTB5KL       | 90,00                      | 113/146          | 12/15,5       | SSND          |
| HTCL         | 90,00                      | 114,00           | 12,00         |               |
| HTCL         | 90,00                      | 115,00           | 12,00         |               |
| TB2          | 90,00                      | 115,00           | 12,40         | PORD          |
| HTB7R        | 90,00                      | 115,00           | 13/19         | GD            |
| SB2          | 90,00                      | 115,00           | 13,00         | GD            |
| TB2          | 90,00                      | 115,00           | 13,00         | GD            |
| DB2          | 90,00                      | 115,00           | 20,00         | GD            |
| TA2          | 90,00                      | 118,00           | 12,00         | GD            |
| TA2          | 90,00                      | 118,00           | 12,00         | ND            |
| TB2          | 90,00                      | 118,00           | 12,00         | GD            |
| TCY          | 90,00                      | 118,10           | 11,20         |               |
| HTC7WL       | 90,00                      | 120,00           | 11/14         | SS            |
| HTCWL        | 90,00                      | 120,00           | 11,00         | SS            |
| SCI          | 90,00                      | 120,00           | 12,00         |               |
| TB2I         | 90,00                      | 120,00           | 12,00         | GD            |
| HTBCWI       | 90,00                      | 120,00           | 13,00         | SSND          |
| TA2          | 90,00                      | 120,00           | 13,00         | GD            |
| TB2          | 90,00                      | 120,00           | 13,00         | GD            |
| TA2          | 90,00                      | 120,00           | 15,00         | GD            |
| OTC3         | 90,00                      | 123,60           | 13,80         | GR            |
| HTB7         | 90,00                      | 125,00           | 10/16,5       | GD            |
| TC42         | 90,00                      | 125,00           | 15,00         |               |
| TB2          | 90,00                      | 125,00           | 17,00         | GD            |
| HTB2R        | 90,00                      | 125,25           | 10,00         | SSP9          |
| TAY          | 90,00                      | 127,00           | 10/36         | ND            |
| TB2          | 90,00                      | 127,00           | 13,00         | GD            |
| TA2          | 90,00                      | 130,00           | 13,00         | P9            |
| TA2          | 90,00                      | 130,00           | 15,00         | GD            |
| TA2          | 90,00                      | 135,00           | 15,00         | GD            |
| TC42W        | 90,00                      | 140,00           | 8/10          |               |
| TCI          | 90,00                      | 140,00           | 10,00         |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTBC7R       | 90,00                      | 145,00           | 10/15         | SSND          |
| OKC          | 90,42                      | 125,37           | 5,80          |               |
| TB5I         | 90,47                      | 120,78/128       | 14,00         | PO            |
| VBY          | 90,98                      | 110,00           | 4,80          | ND            |
| HTCL         | 91,00                      | 111,00           | 7,50          |               |
| HTCL         | 91,00                      | 111,00           | 9,00          |               |
| HTB2L        | 91,00                      | 111,00           | 10,00         | PO            |
| HTCL         | 91,00                      | 114,00           | 9,00          | SS            |
| SAZE         | 91,95                      | 117,48           | 12,70         | P5            |
| HSBCL        | 92,00                      | 107,80           | 9,50          | ND            |
| HTCWL        | 92,00                      | 108,00           | 9,50          |               |
| HTCWL        | 92,00                      | 110,00           | 7,00          | SS            |
| HSCWL        | 92,00                      | 110,00           | 9,00          |               |
| HTCWL        | 92,00                      | 110,00           | 9,50          | SS            |
| TB2          | 92,00                      | 120,50           | 13,00         | GD            |
| TCW          | 92,00                      | 125,00           | 12,00         |               |
| TA2          | 92,07                      | 117,50           | 11,10         | ND            |
| TA2          | 92,07                      | 123,82           | 15,90         | GD            |
| HTCWL        | 92,08                      | 107,95           | 9,90          |               |
| TB2I         | 92,08                      | 111,13           | 9,50          | GD            |
| OKBL3        | 92,08                      | 112,71           | 9,50          |               |
| TA2          | 92,08                      | 114,28           | 11,9/12,3     | P0            |
| TB2          | 92,08                      | 120,65           | 12,70         | SSP5RD        |
| TB2I         | 92,08                      | 120,65           | 12,70         | GD            |
| TA2          | 92,08                      | 120,68           | 12,70         | POH           |
| VB2Y         | 92,08                      | 121,27           | 6,40          | ND            |
| SB2Y         | 92,08                      | 121,27           | 11,50         | ND            |
| SBAX2        | 92,08                      | 123,85           | 19,05         | ND            |
| TA2          | 92,08                      | 126,97           | 12,70         | P0            |
| TB2          | 92,08                      | 127,00           | 9,50          | P2            |
| HTCWY        | 92,80                      | 120,70           | 14,5/15       | GR1           |
| VB2S         | 92,81                      | 119,90           | 5,80          | GD            |
| VCE          | 92,81                      | 120,00           | 6,00          |               |
| KBR          | 92,81                      | 120,65           | 9,40          | ND            |
| HSB2R        | 92,87                      | 117,48           | 12,70         | SSP0ORD       |
| VCSY         | 93,00                      | 114/121          | 8/17          |               |
| HTBCW        | 93,00                      | 114,00           | 13,00         | NDGR          |
| HTCWL        | 93,00                      | 114,00           | 13,00         |               |
| OVBY         | 93,00                      | 116,10           | 14,50         | ND            |
| KCY          | 93,00                      | 142,00           | 15,00         |               |
| KB2Y         | 93,00                      | 169,00           | 11,40         | ND            |
| TB2          | 93,66                      | 130,18           | 12,70         | GD            |
| SAZE         | 93,68                      | 114,30           | 12,70         | SSGD          |
| SB2          | 94,00                      | 114,00           | 5,00          | GD            |
| SB2          | 94,00                      | 114,00           | 7,00          | GD            |
| TAY          | 94,00                      | 132,00           | 12/22         | GD            |
| HTCW9R       | 94,00                      | 135,00           | 15/19         |               |
| HTC7WR       | 94,00                      | 175,00           | 12,5/26       |               |
| HDCPJ        | 94,45                      | 120,79           | 10,5/16       |               |
| BU           | 95,00                      | 100,00           | 14,00         | GD            |
| HTBCL        | 95,00                      | 110,00           | 10,00         | SSND          |
| HTCL         | 95,00                      | 110,00           | 10,00         |               |
| HTCL         | 95,00                      | 110,00           | 11,00         |               |
| HTCR         | 95,00                      | 110,00           | 11,00         |               |
| HTBCWL       | 95,00                      | 113,00           | 10,00         | SSND          |
| HTCL         | 95,00                      | 114,00           | 12,00         | SS            |
| HTCL         | 95,00                      | 115,00           | 8,50          |               |
| HTBKL        | 95,00                      | 115,00           | 9,5/12,5      | NDRD          |
| SB2          | 95,00                      | 115,00           | 10,00         | ND            |
| HTCL         | 95,00                      | 115,00           | 12,00         |               |
| HTCWL        | 95,00                      | 115,00           | 12,00         |               |
| TA2          | 95,00                      | 115,00           | 12,00         | GD            |
| TB2          | 95,00                      | 115,00           | 12,00         | P2            |
| TC3          | 95,00                      | 115,00           | 12,00         |               |
| HTC          | 95,00                      | 115,00           | 13,00         |               |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| OSC          | 95,00                      | 115,00              | 13,00            | SS            |
| TA2          | 95,00                      | 115,00              | 13/15            | GD            |
| TBC          | 95,00                      | 115,00              | 13,00            | ND            |
| SC2          | 95,00                      | 117,70              | 8,00             |               |
| HTCL         | 95,00                      | 118,00              | 8,50             | SS            |
| KBCKA        | 95,00                      | 118,00              | 9,5/13           | ND            |
| HTCKL        | 95,00                      | 118,00              | 10,00            |               |
| HTCL         | 95,00                      | 118,00              | 10,00            | SS            |
| HTB2L        | 95,00                      | 118,00              | 11,00            | SSP5GR        |
| VBCR         | 95,00                      | 120,00              | 4/7              | ND            |
| TCI          | 95,00                      | 120,00              | 10,00            |               |
| DC           | 95,00                      | 120,00              | 12,00            |               |
| TA2          | 95,00                      | 120,00              | 12,00            | GD            |
| TCI          | 95,00                      | 120,00              | 12,00            |               |
| HTB2L        | 95,00                      | 120,00              | 13,00            | ND            |
| HTCR         | 95,00                      | 120,00              | 13,00            |               |
| OSC          | 95,00                      | 120,00              | 13,00            |               |
| SB2          | 95,00                      | 120,00              | 13,00            | GD            |
| TB2          | 95,00                      | 120,00              | 13,00            | GD            |
| TCW          | 95,00                      | 120,00              | 13,00            |               |
| DA2          | 95,00                      | 120,00              | 17,00            | P0            |
| DA2          | 95,00                      | 120,00              | 17,50            | GD            |
| TCY          | 95,00                      | 122,80              | 14,30            |               |
| TC7WY        | 95,00                      | 122,99              | 22,00            | GR1           |
| SA2          | 95,00                      | 125,00              | 13,00            | GD            |
| TA2          | 95,00                      | 125,00              | 13,00            | GD            |
| TB2          | 95,00                      | 125,00              | 13,00            | GD            |
| TC5Y         | 95,00                      | 127/135             | 11,20            | SSGR1         |
| TB2          | 95,00                      | 127,00              | 13,00            | GD            |
| TA2          | 95,00                      | 128,00              | 12,50            | GD            |
| SCI          | 95,00                      | 130,00              | 12,00            | SS            |
| OSB          | 95,00                      | 130,00              | 13,00            | GD            |
| SA2          | 95,00                      | 130,00              | 13,00            | GD            |
| TA2          | 95,00                      | 130,00              | 13,00            | GD            |
| TB2          | 95,00                      | 130,00              | 13,00            | GD            |
| TBR          | 95,00                      | 130,00              | 15,00            | GD            |
| TA9Y         | 95,00                      | 132,00              | 12/22,5          | GD            |
| TCI          | 95,00                      | 150,00              | 12,00            |               |
| HTB7RY       | 95,00                      | 156,00              | 9/24             | ND            |
| TC5Y         | 95,20                      | 120,2/130           | 10/13            | NDGR          |
| Y            | 95,25                      | 111,13              | 6,86             |               |
| UP           | 95,25                      | 111,13              | 12,70            |               |
| UPA          | 95,25                      | 111,13              | 15,88            |               |
| OKB          | 95,25                      | 111,70              | 6,40             |               |
| VCY          | 95,25                      | 112,65              | 6,40             |               |
| TA2          | 95,25                      | 114,30              | 11,90            | P5            |
| TBI          | 95,25                      | 114,30              | 12,70            | GD            |
| VB2          | 95,25                      | 117,48              | 12,50            | GD            |
| SB2E         | 95,25                      | 117,48              | 12,70            | P5            |
| TA2          | 95,25                      | 117,50              | 12,70            | P0            |
| SA2          | 95,25                      | 120,65              | 12,70            | GD            |
| SB2          | 95,25                      | 120,65              | 12,70            | GD            |
| KBP          | 95,25                      | 120,65              | 14,00            | GD            |
| TB2          | 95,25                      | 120,68              | 9,50             | P2            |
| HTB2L        | 95,25                      | 120,68              | 12,70            | P0            |
| TA2          | 95,25                      | 120,68              | 12,70            | P0            |
| TB2I         | 95,25                      | 123,83              | 12,70            | GD            |
| TB2          | 95,25                      | 126,97              | 9,50             | SSP5          |
| SA2          | 95,25                      | 126,97              | 11,90            | P0            |
| TA2          | 95,25                      | 133,35              | 11,10            | P0            |
| TBA          | 95,25                      | 133,35              | 11,10            | P0            |
| TB2          | 95,25                      | 136,53              | 12,70            | ND            |
| TA2          | 95,25                      | 136,55              | 12,70            | P0            |
| TC7AY        | 95,26                      | 114,35              | 12,00            | SUSNDGR       |
| HTBSYL       | 96,00                      | 113/146             | 15,00            | SSND          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TB           | 96,00                      | 114,00           | 12,00         | ND            |
| HTCWL        | 96,00                      | 116,00           | 9,00          | GR            |
| HTCWL        | 96,00                      | 116,00           | 9,00          | SSGR          |
| HTC9R        | 96,00                      | 124,00           | 14/20,5       |               |
| TB2          | 96,00                      | 135,50           | 12,00         | GD            |
| TA2          | 96,83                      | 123,85           | 12,70         | PO            |
| HSCL         | 96,84                      | 119,85           | 11,90         |               |
| TB           | 97,00                      | 114,00           | 12,00         | GD            |
| TB3          | 97,00                      | 114,00           | 12,00         | GD            |
| HTCL         | 97,00                      | 115,00           | 12,00         |               |
| KBCKY        | 97,00                      | 118,00           | 9,5/12        | ND            |
| TC7Y         | 97,18                      | 114,35           | 9,5/15,5      |               |
| TC9Y         | 97,18                      | 114,35           | 9,5/14,6      |               |
| VCY          | 97,50                      | 116,30           | 12/23         |               |
| HKCWLJ       | 98,00                      | 115,00           | 10,00         |               |
| KCW          | 98,00                      | 115,00           | 10,00         |               |
| HTCL         | 98,00                      | 116,00           | 10,00         | SS            |
| KB2Y         | 98,00                      | 119,50           | 6,5/0         | ND            |
| TBC3         | 98,00                      | 119,50           | 8,5/9,6       | SSND          |
| VB2Y         | 98,00                      | 125,00           | 8/8,5         | NDRD          |
| TC35         | 98,00                      | 125,15/133,8     | 9,60          | SSND          |
| TC35A        | 98,00                      | 125,15/133,8     | 9,60          | SSSND         |
| TA2          | 98,00                      | 130,00           | 13,00         | GD            |
| TA2          | 98,00                      | 130,00           | 13,00         | GD            |
| TA2          | 98,00                      | 145,00           | 19,00         | GD            |
| SA2          | 98,42                      | 123,82           | 12,70         | PO            |
| SA2          | 98,42                      | 127,00           | 11,90         | PO            |
| OTC          | 98,42                      | 134,10           | 13,30         | GR            |
| OSCY         | 98,43                      | 114,00           | 12,20         | GR            |
| SA2          | 98,43                      | 120,65           | 12,70         | PO            |
| SB2          | 98,43                      | 127,00           | 9,50          | ND            |
| SA2          | 98,43                      | 133,35           | 11,10         | GD            |
| TA2          | 98,43                      | 133,38           | 11,10         | P5            |
| SB2          | 98,43                      | 144,50           | 19,10         | NDRD          |
| TA5Y         | 98,43                      | 144,68/151,8     | 21,60         | PO            |
| SB           | 98,55                      | 130,00           | 20,00         | ND            |
| SA2Y         | 98,55                      | 144,55           | 19,05         | ND            |
| HKBCL        | 99,00                      | 115,00           | 10,00         |               |
| VBY          | 99,00                      | 119,00           | 9,50          | SUSGD         |
| VBY          | 99,06                      | 106,50           | 6,20          | GD            |
| SLBC         | 100,00                     | 102/129,5        | 15,00         | ND            |
| HTCWL        | 100,00                     | 110,00           | 7,00          | GR            |
| TB           | 100,00                     | 114,00           | 7,00          | GD            |
| TB           | 100,00                     | 114,00           | 12,00         | GD            |
| VAY          | 100,00                     | 115,00           | 4,00          | GD            |
| OSCY         | 100,00                     | 115,90           | 12,80         | GR            |
| HTCL         | 100,00                     | 118,00           | 8,50          |               |
| HTCL         | 100,00                     | 119,00           | 9,50          | SS            |
| VAY          | 100,00                     | 120,00           | 4,00          | GD            |
| SB2          | 100,00                     | 120,00           | 8,00          | GD            |
| OSA          | 100,00                     | 120,00           | 9,00          | ND            |
| TB           | 100,00                     | 120,00           | 10,00         | GD            |
| HTCL         | 100,00                     | 120,00           | 11,00         |               |
| TBI          | 100,00                     | 120,00           | 12,00         | GD            |
| VAFE         | 100,00                     | 120,00           | 12,00         | GD            |
| HTA2         | 100,00                     | 120,00           | 12,70         | ND            |
| HTC3R        | 100,00                     | 120,00           | 13,00         |               |
| HTC7L        | 100,00                     | 120,00           | 13/18         |               |
| HTCL         | 100,00                     | 120,00           | 13,00         | SS            |
| SA           | 100,00                     | 120,00           | 13,00         | GD            |
| HTBSYL       | 100,00                     | 120/158          | 15,00         | SSND          |
| DBR          | 100,00                     | 122,80           | 20,00         | ND            |
| HTBCWL       | 100,00                     | 124,00           | 13,00         | SSND          |
| HTBSYL       | 100,00                     | 124/157          | 14,50         | SSND          |
| HTCSYL       | 100,00                     | 125/134          | 12,5/16,5     |               |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTCL         | 100,00                     | 125,00           | 13,00         |               |
| SB2          | 100,00                     | 125,00           | 13,00         | GD            |
| TA2          | 100,00                     | 125,00           | 13,00         | GD            |
| TB2          | 100,00                     | 125,00           | 13,00         | GD            |
| DAY          | 100,00                     | 125,00           | 21,5/23       | GD            |
| DAYJ         | 100,00                     | 125,00           | 21,5/23,5     | SSGD          |
| VBJ          | 100,00                     | 125,00           | 23,5/25,6     | GD            |
| VY           | 100,00                     | 125,00           | 24,00         | GD            |
| SA2          | 100,00                     | 127,00           | 8,00          | ND            |
| TA2          | 100,00                     | 127,00           | 12,00         | SSPOH         |
| DC           | 100,00                     | 127,00           | 12,70         |               |
| TB2          | 100,00                     | 127,00           | 13,00         | GD            |
| TCY          | 100,00                     | 128,10           | 14,50         |               |
| HTBCA        | 100,00                     | 130,00           | 12,00         | ND            |
| SB2          | 100,00                     | 130,00           | 12,00         | PO            |
| DC           | 100,00                     | 130,00           | 13,00         | SS            |
| HTBCWI       | 100,00                     | 130,00           | 13,00         | ND            |
| TA2          | 100,00                     | 130,00           | 13,00         | GD            |
| TBCW         | 100,00                     | 130,00           | 13,00         | ND            |
| TCW          | 100,00                     | 130,00           | 13,00         |               |
| TBCWI        | 100,00                     | 130,00           | 18,00         | ND            |
| HTCL         | 100,00                     | 135,00           | 10,00         |               |
| KBCK2A       | 100,00                     | 135,00           | 13/16         | ND            |
| HTCSL        | 100,00                     | 135/140          | 15,00         |               |
| TCA          | 100,00                     | 135,00           | 15,00         |               |
| TA2Y         | 100,00                     | 136,42           | 13,6/23       | PO            |
| TA2          | 100,00                     | 136,55           | 12,70         | PO            |
| TCJ          | 100,00                     | 140,00           | 12,00         | SS            |
| TAY          | 100,00                     | 145,00           | 15/26         |               |
| TAY          | 100,00                     | 145,00           | 15/26         | GD            |
| KC           | 100,00                     | 152,00           | 12,00         |               |
| KCA          | 100,00                     | 152,00           | 12,00         | ND            |
| SCSAY        | 100,97                     | 128,73/135,36    | 11,94         | SS            |
| SCSY         | 100,97                     | 128,73/135,36    | 11,94         | SS            |
| TB           | 101,00                     | 114,00           | 10,00         | GD            |
| HTCR         | 101,00                     | 116,00           | 8,00          |               |
| TBR          | 101,35                     | 136,53           | 12,70         | GD            |
| WY           | 101,56                     | 117,19           | 3,50          |               |
| SB           | 101,60                     | 114,30           | 6,40          | ND            |
| VB2          | 101,60                     | 114,30           | 6,40          | P2            |
| SBR          | 101,60                     | 115,88           | 9,50          | ND            |
| KAX3         | 101,60                     | 120,65           | 5,7/6,4       | ND            |
| SCY          | 101,60                     | 122,60           | 10,00         | ND            |
| TBI          | 101,60                     | 123,83           | 12,70         | GD            |
| HTCKL        | 101,60                     | 125,00           | 13,00         |               |
| HTCL         | 101,60                     | 125,00           | 13,00         |               |
| TBC          | 101,60                     | 126,94           | 9,00          | ND            |
| SA2          | 101,60                     | 127,00           | 7,90          | SSND          |
| TB2          | 101,60                     | 127,00           | 9,50          | GD            |
| TB2          | 101,60                     | 127,00           | 10,20         | P2            |
| SA2          | 101,60                     | 127,00           | 10,60         | ND            |
| TA2          | 101,60                     | 127,00           | 11,10         | GD            |
| DC           | 101,60                     | 127,00           | 12,70         |               |
| DCP          | 101,60                     | 127,00           | 12,70         | SS            |
| DCP          | 101,60                     | 127,00           | 12,70         | SS            |
| SA2          | 101,60                     | 127,00           | 12,70         | PO            |
| TA2          | 101,60                     | 127,00           | 12,70         | PO            |
| TB2          | 101,60                     | 127,00           | 12,70         | GD            |
| KCY          | 101,60                     | 127,00           | 17,00         | ND            |
| SA2          | 101,60                     | 130,18           | 7,90          | ALSSND        |
| SA2          | 101,60                     | 130,18           | 7,90          | GD            |
| SA2          | 101,60                     | 133,35           | 9,50          | PO            |
| TA2          | 101,60                     | 133,35           | 9,50          | PO            |
| TA2          | 101,60                     | 133,35           | 11,90         | PO            |
| TB2I         | 101,60                     | 133,35           | 12,70         | GD            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TCI          | 101,60                     | 133,35           | 12,70         |               |
| SA2          | 101,60                     | 133,37           | 11,10         | P2            |
| TA2          | 101,60                     | 136,53           | 12,70         | P2            |
| TCI          | 101,60                     | 136,53           | 12,70         |               |
| TB2I         | 101,60                     | 139,70           | 12,70         | GD            |
| SA2          | 101,60                     | 142,88           | 11,10         | P2            |
| TB5I         | 101,60                     | 144,68/151,8     | 21,60         | P0            |
| OSC          | 101,60                     | 146,05           | 12,70         |               |
| OSCY         | 101,60                     | 146,05           | 14,30         |               |
| TA2          | 101,60                     | 152,37           | 12,70         | P0            |
| TB2I         | 101,60                     | 152,40           | 14,30         | GD            |
| TA2          | 101,60                     | 158,75           | 12,70         | P0            |
| TB3          | 102,00                     | 116,00           | 14,00         | GD            |
| KCS7K        | 102,00                     | 125/130          | 12/21         |               |
| KBCKY        | 102,00                     | 135,00           | 13/14         | ND            |
| TAY          | 102,79                     | 136,53           | 23,00         | P0            |
| SA6          | 102,87                     | 139,73/145,26    | 17,00         | P2            |
| OVBY         | 103,00                     | 126,10           | 14,50         | ND            |
| KBCKA        | 104,00                     | 137,00           | 13,00         | ND            |
| KBCKA        | 104,00                     | 139,00           | 13/15,5       | ND            |
| TA2          | 104,00                     | 140,00           | 12,00         | GD            |
| SLBC5        | 104,77                     | 134,40           | 11,2/16,8     | GR6           |
| VBG          | 104,78                     | 119,06           | 3,00          | ND            |
| OSCY         | 104,78                     | 121,00           | 12,50         | GR            |
| SA2          | 104,78                     | 126,97           | 11,90         | P0            |
| TA2          | 104,78                     | 127,00           | 12,70         | GD            |
| TB2I         | 104,78                     | 133,35           | 12,70         | GD            |
| DA2          | 104,78                     | 139,70           | 14,30         | P0            |
| SA2          | 104,80                     | 127,00           | 11,10         | GD            |
| HTCKL        | 105,00                     | 120,00           | 11,00         | SS            |
| HTCL         | 105,00                     | 120,00           | 11,00         |               |
| HTCL         | 105,00                     | 125,00           | 11,70         |               |
| HSCR         | 105,00                     | 125,00           | 13,00         | SS            |
| SA2          | 105,00                     | 125,00           | 13,00         | GD            |
| TB           | 105,00                     | 125,00           | 13,00         | GD            |
| TB2          | 105,00                     | 125,00           | 16,00         | ND            |
| DC           | 105,00                     | 130,00           | 12,00         |               |
| HTCL         | 105,00                     | 130,00           | 12,00         |               |
| TBCWL        | 105,00                     | 130,00           | 12/9,5        | ND            |
| TBCWR        | 105,00                     | 130,00           | 12,00         | SSND          |
| TCI          | 105,00                     | 130,00           | 12,00         |               |
| SA2          | 105,00                     | 130,00           | 13,00         | GD            |
| TA2          | 105,00                     | 130,00           | 13,00         | GD            |
| HTB57R       | 105,00                     | 135/142          | 13/20         | ND            |
| HTCKL        | 105,00                     | 135,00           | 13,00         |               |
| HTCL         | 105,00                     | 135,00           | 13,00         |               |
| TA2          | 105,00                     | 135,00           | 13,00         | GD            |
| HTC7YR       | 105,00                     | 135,00           | 14/20         |               |
| HTCL         | 105,00                     | 135,00           | 14,00         |               |
| SB2          | 105,00                     | 135,00           | 14,00         | GD            |
| TB2          | 105,00                     | 135,00           | 14,00         | GD            |
| HTBCKL       | 105,00                     | 135,00           | 15,00         | SSND          |
| TA2          | 105,00                     | 136,50           | 15,00         | P9            |
| TB2I         | 105,00                     | 145,00           | 12,00         | GD            |
| TCI          | 105,00                     | 170,00           | 12,00         |               |
| TC5Y         | 105,20                     | 130,2/140        | 10/13         | NDGR          |
| ORING        | 105,35                     | 0,00             | 3,58          |               |
| SA2          | 105,57                     | 127,00           | 12,70         | P5            |
| MGY          | 105,80                     | 142,88/172,72    | 5,30          |               |
| SA2I         | 105,82                     | 139,72           | 15,24         | P0            |
| TB3          | 106,00                     | 123,00           | 11,00         | GD            |
| HTCL         | 106,00                     | 126,00           | 12,00         |               |
| KBCKY        | 106,00                     | 137,00           | 13,00         | ND            |
| KBCKY        | 106,00                     | 139,00           | 13,00         | ND            |
| TA2Y         | 106,35                     | 127,00           | 11,9/12,3     | P0            |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br><i>Notes</i> |
|--------------|-----------------------------------|----------------------------|-------------------------|----------------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |                      |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |                      |
| TA2Y         | 106,35                            | 158,75                     | 12,7/13                 | SSPO                 |
| TA2          | 106,36                            | 126,97                     | 9,50                    | P2                   |
| SA2          | 106,36                            | 133,38                     | 11,90                   | ND                   |
| VB2Y         | 106,68                            | 120,65                     | 6,7/8                   | ND                   |
| Y            | 107,00                            | 180,00                     | 17,50                   |                      |
| OSCY         | 107,95                            | 123,00                     | 12,70                   | GR                   |
| TBCW         | 107,95                            | 127,00                     | 12,70                   | NDGR                 |
| TBI          | 107,95                            | 127,00                     | 12,70                   | GD                   |
| SA2          | 107,95                            | 133,35                     | 9,50                    | PO                   |
| TA2          | 107,95                            | 133,35                     | 12,70                   | ND                   |
| VB2I         | 107,95                            | 133,38                     | 6,40                    | P5                   |
| TB2          | 107,95                            | 133,38                     | 9,50                    | PO                   |
| OTC          | 107,95                            | 134,00                     | 12,50                   | GR                   |
| SA2          | 107,95                            | 136,53                     | 12,70                   | GD                   |
| TA2          | 107,95                            | 136,55                     | 12,70                   | POH                  |
| VB2Y         | 107,95                            | 137,15                     | 6,40                    | ND                   |
| SB2Y         | 107,95                            | 137,15                     | 11,50                   | ND                   |
| SA2          | 107,95                            | 139,70                     | 12,70                   | PO                   |
| SBAX2        | 107,95                            | 139,73                     | 19,05                   | ND                   |
| TB2          | 107,95                            | 142,88                     | 12,70                   | PO                   |
| TBA          | 107,95                            | 142,90                     | 12,70                   | PO                   |
| SL           | 107,95                            | 143,00                     | 15,00                   | ND                   |
| SL           | 107,95                            | 148,00                     | 15,00                   | ND                   |
| TA2          | 107,95                            | 152,38                     | 12,70                   | PO                   |
| OSC          | 107,95                            | 153,99                     | 14,60                   |                      |
| OKB          | 107,95                            | 165,10                     | 11,10                   | ND                   |
| HTCL         | 108,00                            | 135,00                     | 9,00                    |                      |
| TA2          | 108,00                            | 140,00                     | 13,00                   | GD                   |
| OSC          | 108,00                            | 145,00                     | 12,50                   |                      |
| OSC          | 108,00                            | 160,00                     | 7/11                    |                      |
| SB5          | 108,60                            | 136,53/152,5               | 11,18                   | POGR6                |
| KBCKA        | 109,00                            | 137,00                     | 13,00                   | ND                   |
| SCWY         | 109,00                            | 152,40                     | 20,00                   |                      |
| BU           | 110,00                            | 115,00                     | 16,00                   | GD                   |
| VAY          | 110,00                            | 125,00                     | 4,00                    | GD                   |
| TBR          | 110,00                            | 125,00                     | 8,00                    | GD                   |
| HTB          | 110,00                            | 125,00                     | 12,00                   | SSND                 |
| TA2          | 110,00                            | 128,00                     | 9,00                    | P9                   |
| VAY          | 110,00                            | 130,00                     | 4,00                    | GD                   |
| TC7Y         | 110,00                            | 130,00                     | 7/12,5                  | SSND                 |
| VAFE         | 110,00                            | 130,00                     | 11,50                   | GD                   |
| HTCL         | 110,00                            | 130,00                     | 12,00                   |                      |
| HSCL         | 110,00                            | 130,00                     | 13,00                   |                      |
| TA2          | 110,00                            | 130,00                     | 13,00                   | GD                   |
| TB           | 110,00                            | 130,00                     | 13,00                   | GD                   |
| TCW          | 110,00                            | 130,00                     | 13,00                   |                      |
| TA2          | 110,00                            | 133,00                     | 13,00                   | GD                   |
| HTCL         | 110,00                            | 135,00                     | 9,00                    |                      |
| HTCR         | 110,00                            | 135,00                     | 9,00                    |                      |
| HTCL         | 110,00                            | 135,00                     | 12,00                   |                      |
| HTB2L        | 110,00                            | 135,00                     | 13,00                   | SSGD                 |
| HTB2L        | 110,00                            | 135,00                     | 13,00                   | ND                   |
| TB2          | 110,00                            | 135,00                     | 13,00                   | GD                   |
| TB2          | 110,00                            | 135,00                     | 14,00                   | GD                   |
| OTC3         | 110,00                            | 135,20                     | 14,10                   | NDGR                 |
| TC9          | 110,00                            | 140,00                     | 9/13                    |                      |
| DCY          | 110,00                            | 140,00                     | 11/16                   |                      |
| TB2I         | 110,00                            | 140,00                     | 12,00                   | GD                   |
| TC7WAY       | 110,00                            | 140,00                     | 12/21,5                 | ND                   |
| TC7WI        | 110,00                            | 140,00                     | 12/21,5                 |                      |
| TCJ          | 110,00                            | 140,00                     | 12,00                   | SS                   |
| SA2          | 110,00                            | 140,00                     | 13,00                   | GD                   |
| SAO          | 110,00                            | 140,00                     | 13,00                   | GD                   |
| TA2          | 110,00                            | 140,00                     | 13,00                   | GD                   |
| TBC          | 110,00                            | 140,00                     | 13,00                   | ND                   |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| HTCL         | 110,00                     | 140,00           | 14,00         |               |
| TB2          | 110,00                     | 140,00           | 14,00         | GD            |
| TBR          | 110,00                     | 140,00           | 14,00         | GD            |
| DB2          | 110,00                     | 140,00           | 22,00         | GD            |
| HTCL         | 110,00                     | 145,00           | 13,00         |               |
| TA2          | 110,00                     | 145,00           | 16,00         | GD            |
| TA2          | 110,00                     | 150,00           | 13,00         | SSND          |
| TA2          | 110,00                     | 150,00           | 15,00         | GD            |
| TA2          | 110,00                     | 152,50           | 15,00         | P9            |
| SAY          | 110,00                     | 154,00           | 12,2/34       | GD            |
| SAY          | 110,00                     | 154,00           | 12,2/34       | GD            |
| TCLS         | 110,00                     | 160/183          | 13/49         |               |
| TA2          | 110,00                     | 160,00           | 16,00         | GD            |
| TCJ          | 110,00                     | 165,00           | 12,00         | SS            |
| SAY          | 110,00                     | 165,00           | 12,2/26       | GD            |
| TAY          | 110,00                     | 166,00           | 15,6/27       | GD            |
| TCI          | 110,00                     | 170,00           | 13,00         |               |
| KBCKY        | 111,00                     | 137,00           | 13,00         | ND            |
| SA2          | 111,10                     | 152,40           | 12,70         | P2            |
| DC           | 111,13                     | 136,53           | 12,70         |               |
| OSA          | 111,13                     | 136,53           | 14,50         | ND            |
| TAY          | 111,13                     | 146,05           | 24,60         | P2            |
| SA2          | 111,13                     | 158,75           | 14,30         | P0            |
| TB2I         | 111,13                     | 158,75           | 14,30         | GD            |
| PS27         | 112,00                     | 159,00           | 11/12         | ND            |
| HTCWL        | 112,50                     | 132,60           | 9,80          | SS            |
| HTCWL        | 112,50                     | 132,60           | 9,80          | SS            |
| TCLS         | 113,00                     | 150/160          | 12/36         |               |
| TAY          | 113,00                     | 156,00           | 15/26         | GD            |
| TB3          | 114,00                     | 130,00           | 11,00         | GD            |
| SB2          | 114,00                     | 132,80           | 8,00          | SSND          |
| HTCR         | 114,00                     | 135,00           | 12,00         |               |
| HTB2L        | 114,00                     | 135,00           | 13,00         | ND            |
| TB           | 114,00                     | 135,00           | 13,00         | GD            |
| DBCWV        | 114,00                     | 135,00           | 17,00         | SSND          |
| SBCWV        | 114,00                     | 135,00           | 17,00         | SSND          |
| KBCKA        | 114,00                     | 150,00           | 15/16         | ND            |
| TC7WY        | 114,00                     | 152,63           | 23,70         | GR1           |
| KBCKA        | 114,00                     | 153,00           | 15/16         | ND            |
| TC7WY        | 114,00                     | 158,85           | 30,60         | GR1           |
| OSC          | 114,00                     | 165,00           | 13,00         |               |
| SB           | 114,20                     | 127,03           | 6,40          | P2            |
| OSCYSF       | 114,30                     | 130,40           | 12,00         | GR            |
| TBI          | 114,30                     | 133,35           | 12,70         | GD            |
| OTC          | 114,30                     | 134,00           | 9,5/13        | GR            |
| VB2          | 114,30                     | 139,70           | 6,40          | ND            |
| TA2          | 114,30                     | 139,70           | 11,10         | P2            |
| SA2          | 114,30                     | 139,70           | 12,70         | P0            |
| SA2          | 114,30                     | 139,70           | 14,30         | GD            |
| TB2          | 114,30                     | 139,73           | 9,50          | P2            |
| SL           | 114,30                     | 143,00           | 15,50         | ND            |
| TB2          | 114,30                     | 146,08           | 12,70         | P5SRD         |
| SA2          | 114,30                     | 152,40           | 12,70         | P0            |
| SA2          | 114,30                     | 158,75           | 12,70         | ND            |
| TA2          | 114,30                     | 158,75           | 12,70         | POH           |
| SA2          | 114,30                     | 158,75           | 14,30         | P0            |
| TA2          | 114,30                     | 158,80           | 14,30         | GD            |
| TB2I         | 114,30                     | 158,80           | 14,30         | GD            |
| OSC          | 114,30                     | 165,10           | 12,70         |               |
| HTCWL        | 115,00                     | 135,00           | 10,00         | SS            |
| SB           | 115,00                     | 135,00           | 13,00         | GD            |
| OTCWY        | 115,00                     | 136,70           | 8/10,5        |               |
| TBI          | 115,00                     | 140,00           | 10,00         | GD            |
| TC2          | 115,00                     | 140,00           | 12,00         |               |
| HTCL         | 115,00                     | 140,00           | 13,00         |               |

# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                      |                  | Note   |
|--------------|----------------------------|----------------------|------------------|--------|
|              | Diametro<br>Internal       | Diametro<br>External | Altezza<br>Width |        |
| OSC          | 115,00                     | 140,00               | 13,00            | SS     |
| SB2          | 115,00                     | 140,00               | 13,00            | GD     |
| TB2          | 115,00                     | 140,00               | 13,00            | GD     |
| HTCL         | 115,00                     | 140,00               | 16,00            |        |
| SBP2         | 115,00                     | 145,00               | 11,00            | GD     |
| SB2          | 115,00                     | 145,00               | 14,00            | GD     |
| TB2          | 115,00                     | 145,00               | 14,00            | GD     |
| TBS          | 115,00                     | 145,00               | 14,00            | GD     |
| TA2          | 115,00                     | 150,00               | 15,00            | GD     |
| TA2          | 115,00                     | 152,50               | 15,00            | GD     |
| SAY          | 115,00                     | 155,00               | 12,70            | GD     |
| TAY          | 115,00                     | 156,00               | 15/26            | GD     |
| TA2          | 115,00                     | 170,00               | 12,00            | GD     |
| SC5AY        | 115,85                     | 154,1/161,34         | 14,20            | SS     |
| SC5Y         | 115,85                     | 154,1/161,34         | 14,20            | SS     |
| TA2          | 115,88                     | 146,08               | 12,70            | ND     |
| SLBC         | 116,00                     | 118/145,5            | 15,00            | ND     |
| HTC7L        | 116,00                     | 146,00               | 12/18            |        |
| KBCKY        | 116,00                     | 150,00               | 15,00            | ND     |
| KBCK2A       | 116,00                     | 151,00               | 13/16            | ND     |
| KBCKY        | 116,00                     | 153,00               | 13/15            | ND     |
| TA2          | 116,00                     | 155,00               | 12,00            | GD     |
| HTB2I        | 116,66                     | 133,41               | 9,50             | POHRD  |
| SBX          | 116,66                     | 136,53               | 11,10            | SSNDRD |
| OSCY         | 117,48                     | 134,00               | 12,40            | GR     |
| HKAT         | 117,48                     | 139,70               | 12,70            | P0     |
| TB2          | 117,48                     | 139,70               | 12,70            | GD     |
| TB2I         | 117,48                     | 146,05               | 12,70            | GD     |
| OTC          | 117,48                     | 146,60               | 13,50            | GR     |
| SL           | 117,48                     | 148,00               | 15,70            | ND     |
| SB2          | 117,48                     | 152,40               | 22,20            | GD     |
| OSCY         | 117,48                     | 153,20               | 12,7/14          |        |
| TAY          | 117,48                     | 157,12               | 31,75            | P2     |
| SA2          | 117,48                     | 158,75               | 12,70            | P2     |
| TB2          | 117,48                     | 158,75               | 14,30            | ND     |
| SLBC         | 117,53                     | 144,50               | 22,70            | ND     |
| TB           | 118,00                     | 136,00               | 13,00            | GD     |
| TB2          | 118,00                     | 140,00               | 13,00            | GD     |
| HTB2L        | 118,00                     | 148,00               | 15,00            | ND     |
| TA3Y         | 118,00                     | 149/152              | 12/26,5          | P5     |
| KBCKY        | 118,00                     | 151,00               | 13/14            | ND     |
| TA2Y         | 118,00                     | 174,00               | 15,5/28          | GD     |
| PS4          | 118,27                     | 146,05               | 7,1/13,5         |        |
| SA2          | 119,05                     | 146,05               | 12,70            | GD     |
| SA2          | 119,06                     | 146,05               | 12,70            | P5     |
| SA2          | 119,06                     | 146,05               | 12,70            | P5     |
| DA           | 119,06                     | 146,05               | 19,10            | P0     |
| VAJ          | 119,38                     | 146,05               | 11,90            | P5     |
| VAY          | 120,00                     | 135,00               | 4,00             | GD     |
| HTCKR        | 120,00                     | 135,00               | 10,00            |        |
| TB23         | 120,00                     | 140,00               | 10,50            | GD     |
| SCI          | 120,00                     | 140,00               | 12,00            |        |
| TBR          | 120,00                     | 140,00               | 12,00            | GD     |
| HTCSL        | 120,00                     | 140/146              | 13,00            |        |
| HTCL         | 120,00                     | 140,00               | 13,00            |        |
| SB           | 120,00                     | 140,00               | 13,00            | GD     |
| TA2          | 120,00                     | 140,00               | 13,00            | GD     |
| TB           | 120,00                     | 140,00               | 13,00            | GD     |
| TBCWL        | 120,00                     | 140,00               | 13,00            | SSND   |
| TA3Y         | 120,00                     | 142/152              | 11/20,5          | P5     |
| TA2          | 120,00                     | 145,00               | 13,00            | GD     |
| TA2          | 120,00                     | 145,00               | 15,00            | GD     |
| TC7WY        | 120,00                     | 146,08               | 18,50            | GR1    |
| SL16         | 120,00                     | 147,90               | 15,50            | GDGR   |
| TCY          | 120,00                     | 148,00               | 13,50            | GD     |
| TCI          | 120,00                     | 150,00               | 12,00            |        |
| HTCL         | 120,00                     | 150,00               | 14,00            |        |
| OSC          | 120,00                     | 150,00               | 14,00            |        |
| SB2          | 120,00                     | 150,00               | 14,00            | GD     |
| TB2          | 120,00                     | 150,00               | 14,00            | GD     |
| HTBCKL       | 120,00                     | 150,00               | 15,00            | ND     |
| TA2          | 120,00                     | 150,00               | 15,00            | GD     |
| TBCW         | 120,00                     | 150,00               | 15,00            | ND     |
| DB2          | 120,00                     | 150,00               | 22,00            | GD     |
| PS24         | 120,00                     | 151/153              | 10,00            |        |
| HTBCKR       | 120,00                     | 153,00               | 15,00            | SSND   |
| HTC9L        | 120,00                     | 153,00               | 15/18            |        |
| HTCR         | 120,00                     | 153,00               | 15,00            |        |
| SA2          | 120,00                     | 159,25               | 15,00            | P0     |
| TA2          | 120,00                     | 160,00               | 15,00            | GD     |
| TCLS         | 120,00                     | 165/175              | 10/38            |        |
| TCI          | 120,00                     | 180,00               | 13,00            |        |
| HSBCW        | 120,20                     | 152,40               | 16,30            | ND     |
| TB2I         | 120,65                     | 146,05               | 9,50             | GD     |
| SA2          | 120,65                     | 146,05               | 14,29            | GD     |
| TB2          | 120,65                     | 146,08               | 12,7/14,2        | SSP5   |
| TBA          | 120,65                     | 149,25               | 12,70            | P0     |
| OTC          | 120,65                     | 152,40               | 12,70            |        |
| TB2          | 120,65                     | 152,40               | 12,70            | P2     |
| DA2          | 120,65                     | 152,40               | 14,29            | P0     |
| TA2          | 120,65                     | 152,40               | 15,90            | GD     |
| TB           | 120,65                     | 152,40               | 22,23            | GD     |
| TA2          | 120,65                     | 152,43               | 12,70            | P0     |
| TB2I         | 120,65                     | 158,75               | 14,30            | GD     |
| HTC7WL       | 120,65                     | 165,35               | 9,4/11,4         | SS     |
| HTCWL        | 120,65                     | 165,35               | 9,40             | SS     |
| HTC7WL       | 120,65                     | 165,35               | 11,4/12,7        | SS     |
| TB4Y         | 120,65                     | 168,12               | 14/30            | P2GR   |
| PSA4         | 121,00                     | 148/160              | 12/15,5          |        |
| PSX4         | 121,00                     | 148/160              | 12/15,5          |        |
| OSCY         | 121,03                     | 137,00               | 12,20            |        |
| OTC          | 121,03                     | 147,00               | 13,00            | GR     |
| SAY          | 121,03                     | 160,32               | 14/29            | P2     |
| SL16         | 121,80                     | 147,80               | 12,00            | GDGR   |
| HTC7L        | 122,00                     | 150,00               | 12/18            |        |
| DB2          | 122,00                     | 152,00               | 21,00            | GD     |
| HTCL         | 122,24                     | 141,29               | 11,90            |        |
| DB2          | 122,24                     | 143,43               | 17,20            | ND     |
| SA2          | 122,24                     | 146,05               | 14,70            | P0     |
| SA2          | 122,24                     | 146,05               | 14,70            | P0     |
| DA           | 122,24                     | 146,05               | 20,60            | P0     |
| DA2          | 122,24                     | 146,05               | 20,60            | P5     |
| TAY          | 123,00                     | 184,00               | 15/28            | GD     |
| TB2I         | 123,83                     | 146,05               | 11,10            | GD     |
| OTC          | 123,83                     | 146,60               | 13,50            | GR     |
| SA2          | 123,83                     | 152,40               | 12,70            | P2     |
| TB2I         | 123,83                     | 152,40               | 14,30            | GD     |
| TCY          | 123,83                     | 168,28               | 15,10            |        |
| TB3          | 124,00                     | 146,00               | 14,00            | GD     |
| TC7WY        | 124,00                     | 152,43               | 22,00            | GR1    |
| DA2          | 124,00                     | 155,00               | 18,00            | GD     |
| OSC          | 124,00                     | 170,00               | 14,50            |        |
| SCY          | 124,20                     | 152,53               | 17,00            | GR     |
| HTCWI        | 125,00                     | 143,00               | 13,00            |        |
| HTB3Y        | 125,00                     | 148,00               | 7/9              | SSND   |
| HTBC3I       | 125,00                     | 148,00               | 8/9              | SSNDGR |
| HTBC3I       | 125,00                     | 148,00               | 9,70             | SSNDRD |
| TC35A        | 125,00                     | 148,3/156            | 8,1/9,3          | SSSND  |
| HTC7L        | 125,00                     | 150,00               | 12/18            | SS     |
| TCI          | 125,00                     | 150,00               | 12,00            |        |
| DC           | 125,00                     | 150,00               | 13,00            |        |
| HTCL         | 125,00                     | 150,00               | 13,00            | SS     |
| TB2          | 125,00                     | 150,00               | 14,00            | GD     |
| TBCW         | 125,00                     | 150,00               | 14,00            | ND     |
| HTA2         | 125,00                     | 150,00               | 15,00            | GD     |
| SA2          | 125,00                     | 150,00               | 15,00            | GD     |
| TBCI         | 125,00                     | 150,00               | 15/13            | ND     |
| TBC16        | 125,00                     | 150,00               | 15,50            | NDGR   |
| MGY          | 125,00                     | 152,00               | 9,50             | SS     |
| HTBCSW       | 125,00                     | 152,37/162,5         | 18,90            | NDGR   |
| TA2          | 125,00                     | 152,40               | 15,00            | GD     |
| HTC7L        | 125,00                     | 155,00               | 14/23            |        |
| HTCL         | 125,00                     | 155,00               | 14,00            | SS     |
| HTCL         | 125,00                     | 155,00               | 14,00            |        |
| TB2          | 125,00                     | 155,00               | 14,00            | GD     |
| TBS          | 125,00                     | 155,00               | 14,00            | GD     |
| DB           | 125,00                     | 155,00               | 22,00            | GD     |
| SA2          | 125,00                     | 159,25               | 14,00            | P0     |
| TB2          | 125,00                     | 170,00               | 12,00            | GD     |
| TCI          | 125,00                     | 200,00               | 12,00            |        |
| DC           | 125,41                     | 152,40               | 12,70            |        |
| TA2          | 125,41                     | 158,75               | 12,70            | P2     |
| TA2          | 125,41                     | 161,90               | 12,70            | P0     |
| TA2Y         | 125,41                     | 168,28               | 12,7/23          | ND     |
| TB23         | 126,00                     | 146,00               | 10,00            | GD     |
| HTCSL        | 126,00                     | 150/156              | 14,00            | SS     |
| Y            | 126,00                     | 151,00               | 3,1/6,5          |        |
| TBC16        | 126,20                     | 150,00               | 15,00            | NDGR   |
| TC35         | 126,77                     | 148,3/156            | 8,1/9,3          | SS     |
| TB3          | 127,00                     | 146,00               | 10,00            | GD     |
| KAJ          | 127,00                     | 146,05               | 9,50             | P0     |
| HSCL         | 127,00                     | 146,05               | 11,10            |        |
| SCI          | 127,00                     | 146,05               | 11,10            |        |
| TA2          | 127,00                     | 146,05               | 11,11            | GD     |
| SB           | 127,00                     | 146,08               | 12,70            | SSP2   |
| TB23         | 127,00                     | 147,00               | 11,00            | GD     |
| TB           | 127,00                     | 147,00               | 11,50            | GD     |
| HTBCWL       | 127,00                     | 150,00               | 13,00            | ND     |
| SA2E         | 127,00                     | 152,40               | 12,70            | P5     |
| TA2          | 127,00                     | 152,40               | 12,70            | ND     |
| TB42         | 127,00                     | 152,40               | 12,70            | P2     |
| TCI          | 127,00                     | 152,40               | 12,70            |        |
| DA2          | 127,00                     | 152,40               | 15,90            | SSP0   |
| TB2          | 127,00                     | 152,48               | 12,70            | PORD   |
| SA2          | 127,00                     | 158,75               | 12,70            | P0     |
| TA2          | 127,00                     | 158,75               | 12,70            | ND     |
| SA2          | 127,00                     | 158,75               | 14,30            | P0     |
| TB2          | 127,00                     | 161,93               | 12,70            | GD     |
| TBRA         | 127,00                     | 161,95               | 12,70            | POH    |
| SA2          | 127,00                     | 165,10               | 15,88            | GD     |
| SC5AY        | 127,00                     | 169,04/177,04        | 13,80            | SS     |
| SC5Y         | 127,00                     | 169,04/177,04        | 13,80            | SS     |
| TA2          | 127,00                     | 190,50               | 12,70            | P2     |
| SC5AY        | 127,76                     | 169,04/177,04        | 13,80            | SS     |
| SC5Y         | 127,76                     | 169,04/177,04        | 13,80            | SS     |
| HTCL         | 128,00                     | 148,00               | 10,00            | SS     |
| TB           | 128,57                     | 155,58               | 12,70            | GD     |
| HKATWL       | 129,50                     | 150,00               | 23,80            | ND     |
| HKATWL       | 129,50                     | 150,00               | 25,00            |        |
| TB3          | 130,00                     | 146,00               | 14,00            | GD     |
| TB2          | 130,00                     | 150,00               | 10,00            | GD     |
| TB3          | 130,00                     | 150,00               | 12,00            | GD     |
| TB3          | 130,00                     | 150,00               | 14,00            | GD     |
| TC9Y         | 130,00                     | 150,00               | 15/22            |        |
| TB4          | 130,00                     | 154,00               | 13,00            | ND     |
| TC7Y         | 130,00                     | 158,00               | 8,5/13,5         | SSND   |
| SL16         | 130,00                     | 158,00               | 14,5/16          | SSGDGR |
| SB2          | 130,00                     | 160,00               | 12,00            | GD     |
| TBV          | 130,00                     | 160,00               | 12/13            | GD     |
| OSC          | 130,00                     | 160,00               | 13,00            | SS     |
| HTCL         | 130,00                     | 160,00               | 14,00            |        |
| OSC          | 130,00                     | 160,00               | 14,00            |        |
| TA2          | 130,00                     | 160,00               | 14,00            | GD     |
| TB2          | 130,00                     | 160,00               | 14,00            | GD     |
| HTBCWL       | 130,00                     | 160,00               | 15,00            | ND     |
| TCAPU        | 130,00                     | 160,00               | 20,00            | ND     |
| OSC          | 130,00                     | 162,00               | 15,00            |        |
| TA2          | 130,00                     | 170,00               | 15,00            | P9     |
| OSC          | 130,00                     | 172,00               | 11/14            |        |
| TBI          | 130,18                     | 152,40               | 12,70            | GD     |
| PS28         | 130,97                     | 144,46               | 10,3/13,1        |        |
| OVY          | 131,00                     | 139,70               | 2,50             |        |
| HTCWL        | 131,76                     | 165,10               | 12,7/22,2        |        |
| HTCSL        | 132,00                     | 150/156              | 14,00            |        |
| VB57Y        | 132,00                     | 179,5/214            | 11,3/22,5        | ND     |
| HTCL         | 133,00                     | 157,00               | 14,00            |        |
| HTBCSA       | 133,00                     | 157/165              | 16,8/22          | ND     |
| HTCWL        | 133,30                     | 158,71               | 12,4/14,6        |        |
| HTCWR        | 133,30                     | 158,71               | 12,4/14,6        |        |
| HTCWR        | 133,30                     | 158,71               | 12,4/14,6        | SS     |
| SAY          | 133,30                     | 190,00               | 14/29            | P2     |
| HTB2         | 133,35                     | 155,58               | 14/11,5          | ND     |
| HSB          | 133,35                     | 155,60               | 14/11,5          | ND     |
| HTCL         | 133,35                     | 158,75               | 11,1/12,7        | SS     |
| HSCL         | 133,35                     | 158,75               | 12,70            |        |
| HTCL         | 133,35                     | 158,75               | 12,70            |        |
| SA2          | 133,35                     | 158,75               | 12,70            | P2     |
| SA2          | 133,35                     | 165,10               | 15,90            | P0     |
| TB           | 134,00                     | 152,00               | 11,00            | GD     |
| HTCWL        | 134,40                     | 165,10               | 12,70            |        |
| DA2          | 134,94                     | 165,10               | 26,20            | P0     |
| OVY          | 135,00                     | 155,00               | 7/15             |        |
| OKCA         | 135,00                     | 156,7/159,5          | 8/12             | ND     |
| OKCW         | 135,00                     | 156,70               | 8/10,5           |        |
| OTCWY        | 135,00                     | 156,70               | 8/10,5           |        |
| TBC16        | 135,00                     | 160,00               | 16,50            | NDGR   |
| TB2          | 135,00                     | 162,00               | 13,00            | GD     |
| TA2          | 135,00                     | 165,00               | 13,00            | P0     |
| HTC7L        | 135,00                     | 165,00               | 14/20            | SS     |
| TB2          | 135,00                     | 165,00               | 14,00            | GD     |
| TA2          | 13                         |                      |                  |        |



# Anelli di tenuta in esecuzione speciale

## Special execution shaft seals

TTO

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| TA2          | 139,70                     | 165,10           | 14,30         | P0            |
| DA           | 139,70                     | 168,28           | 17,00         | P2            |
| TA2          | 139,70                     | 171,42           | 15,88         | SSP0          |
| TASY         | 139,70                     | 184,15           | 16,20         | P5            |
| SA2          | 139,70                     | 190,50           | 14,30         | P2            |
| OSA          | 140,00                     | 160,00           | 9,00          | ND            |
| OSA          | 140,00                     | 160,00           | 10,00         | ND            |
| TCW          | 140,00                     | 160,00           | 10,00         |               |
| SA2          | 140,00                     | 160,00           | 13,00         | GD            |
| HTCL         | 140,00                     | 160,00           | 14,00         |               |
| TB           | 140,00                     | 160,00           | 14,00         | GD            |
| TCSY         | 140,00                     | 160/166          | 14/17         |               |
| TC42         | 140,00                     | 161,20           | 14,00         |               |
| TB4          | 140,00                     | 164,00           | 13,00         | ND            |
| TB           | 140,00                     | 165,00           | 16,00         | GD            |
| TA2          | 140,00                     | 168,00           | 15,00         | P9            |
| SL           | 140,00                     | 168,50           | 16,30         | ND            |
| SCI          | 140,00                     | 170,00           | 12,00         |               |
| SA2          | 140,00                     | 170,00           | 14,00         | GD            |
| SB2          | 140,00                     | 170,00           | 14,00         | GD            |
| TB2          | 140,00                     | 170,00           | 14,00         | GD            |
| TA2          | 140,00                     | 170,00           | 15,00         | P9            |
| TCAPU        | 140,00                     | 170,00           | 20,00         | ND            |
| SL           | 140,00                     | 171,45           | 16/18,5       | GD            |
| Y            | 140,00                     | 171,45           | 16/18,5       | GR            |
| TA2          | 140,00                     | 171,50           | 15,00         | P9            |
| TCX          | 140,00                     | 180,00           | 12,00         |               |
| TB2          | 140,00                     | 180,00           | 15,00         | GD            |
| TB2          | 140,00                     | 180,00           | 16,00         | GD            |
| TCI          | 140,00                     | 210,00           | 15,00         |               |
| TB2          | 142,00                     | 168,00           | 14,00         | GD            |
| SCSAY        | 142,09                     | 187,81/198,07    | 14,50         | SS            |
| SCSY         | 142,09                     | 187,81/198,07    | 14,50         | SS            |
| OSCY         | 142,88                     | 159,00           | 11,80         | GR            |
| TA2          | 142,88                     | 168,25           | 12,70         | P0            |
| TB2          | 143,00                     | 165,00           | 10,00         | P5            |
| HTCL         | 143,00                     | 166,50           | 12,50         |               |
| TB2          | 143,00                     | 168,00           | 16,00         | GD            |
| SB           | 145,00                     | 160,00           | 7,00          | GD            |
| TB3          | 145,00                     | 164,00           | 14,00         | GD            |
| TB           | 145,00                     | 165,00           | 10,00         | GD            |
| TCWI         | 145,00                     | 167,00           | 13,00         |               |
| TA2          | 145,00                     | 168,00           | 15,00         | P9            |
| TC7          | 145,00                     | 170,00           | 12/16         |               |
| TB2          | 145,00                     | 170,00           | 13,00         | GD            |
| TB           | 145,00                     | 170,00           | 15,00         | GD            |
| TBY          | 145,00                     | 170,00           | 15/20         | P9            |
| SL16         | 145,00                     | 172,90           | 15,50         | GDGR          |
| OSC          | 145,00                     | 174,00           | 14,00         |               |
| TB2          | 145,00                     | 175,00           | 8,00          | GD            |
| SA2          | 145,00                     | 175,00           | 13,00         | GD            |
| SBC          | 145,00                     | 175,00           | 13/12         | ND            |
| SBCW         | 145,00                     | 175,00           | 13,00         | ND            |
| SBCWI        | 145,00                     | 175,00           | 13,00         | SSND          |
| TB2          | 145,00                     | 175,00           | 14,00         | GD            |
| TBCW         | 145,00                     | 175,00           | 14,00         | ND            |
| OVY          | 145,00                     | 175,00           | 15,50         |               |
| HTBC42       | 145,00                     | 175,00           | 17/21         | SSNDGR        |
| OTC          | 145,00                     | 175,00           | 17,00         | NDGR          |
| TA2          | 145,00                     | 185,00           | 15,00         | P0            |
| TB3          | 146,00                     | 164,00           | 14,00         | GD            |
| TB3          | 146,00                     | 170,00           | 14,00         | GD            |
| TB3          | 146,00                     | 170,00           | 18,00         | GD            |
| TCA          | 146,00                     | 171,45           | 13,00         | GR            |
| SA2          | 146,05                     | 168,28           | 12,70         | P2            |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               | Note<br>Notes |
|--------------|----------------------------|------------------|---------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |               |
|              | Interno Internal           | Esterno External |               |               |
| SA2          | 146,05                     | 171,45           | 12,70         | ND            |
| TB2          | 146,05                     | 174,63           | 12,70         | ND            |
| SA2          | 146,05                     | 177,80           | 15,90         | ND            |
| SC5AY        | 146,05                     | 178,28/188,54    | 16,70         | SS            |
| SC5Y         | 146,05                     | 178,28/188,54    | 16,70         | SS            |
| TAY          | 146,05                     | 182,56           | 21,10         | P2            |
| TA2          | 146,05                     | 190,50           | 14,30         | P0            |
| TC7WY        | 147,00                     | 170,00           | 13,8/14,4     | GR            |
| SB2I         | 148,00                     | 168/170          | 32,00         | ND            |
| TA2          | 148,00                     | 170,00           | 14,50         | ND            |
| Y            | 148,00                     | 170,00           | 21,00         | ND            |
| TB           | 150,00                     | 168,00           | 13,00         | GD            |
| HTBCW        | 150,00                     | 170,00           | 15,00         | SSND          |
| SA2          | 150,00                     | 170,00           | 15,00         | P0            |
| TA2          | 150,00                     | 170,00           | 15,00         | GD            |
| HTCWL        | 150,00                     | 172,00           | 18,00         |               |
| TB23         | 150,00                     | 175,00           | 14,00         | GD            |
| TBC16        | 150,00                     | 175,00           | 16,00         | NDGR          |
| SL16         | 150,00                     | 178,00           | 14,5/16       | SSGDGR1       |
| VAUY         | 150,00                     | 180,00           | 10,00         | GD            |
| HSCR         | 150,00                     | 180,00           | 13,00         |               |
| OSA          | 150,00                     | 180,00           | 13,00         | ND            |
| TB2          | 150,00                     | 180,00           | 14,00         | GD            |
| HTCL         | 150,00                     | 180,00           | 15,00         |               |
| TCJ          | 150,00                     | 180,00           | 15,00         | SS            |
| TB42I        | 150,00                     | 180,00           | 16/18         | SSP9          |
| TCLSSY       | 150,00                     | 200,2/209        | 9/30,5        | ND            |
| TB           | 152,00                     | 171,80           | 13,00         | GD            |
| TBR          | 152,40                     | 171,45           | 11,90         | GD            |
| SB2          | 152,40                     | 171,45           | 12,70         | P5            |
| TA           | 152,40                     | 174,63           | 14,28         | GD            |
| SA2          | 152,40                     | 177,82           | 15,90         | ND            |
| HTB2R        | 152,40                     | 180,00           | 15,00         | GD            |
| TB           | 154,00                     | 172,00           | 14,00         | GD            |
| TB3          | 154,00                     | 175,00           | 13,00         | GD            |
| TB5Y         | 154,00                     | 175/180          | 13/16         | ND            |
| TC9          | 155,00                     | 167,00           | 8/11,5        |               |
| TB3          | 155,00                     | 172,00           | 14,00         | GD            |
| TB           | 155,00                     | 175,00           | 13,00         | ND            |
| TC57         | 155,00                     | 175/181,5        | 13/17,5       |               |
| TBC16        | 155,00                     | 180,00           | 14,50         | NDGR1         |
| TA2          | 155,00                     | 180,00           | 15,00         | GD            |
| TB23         | 155,00                     | 180,00           | 17,00         | GD            |
| HSB7         | 155,00                     | 180,00           | 24/29         | P3            |
| TB2          | 155,00                     | 185,00           | 14,00         | GD            |
| TB23         | 155,00                     | 190,00           | 17,00         | GD            |
| SL5          | 155,00                     | 208,50           | 15,00         | GD            |
| SA2          | 155,58                     | 180,98           | 15,90         | P0            |
| TBI          | 155,58                     | 182,56           | 15,88         | GD            |
| SA2          | 157,15                     | 190,50           | 14,30         | P0            |
| SA2          | 157,56                     | 180,98           | 11,10         | P5            |
| DA           | 157,56                     | 180,98           | 15,90         | P4            |
| SCE          | 157,58                     | 183,20           | 7,00          |               |
| SA2E         | 157,58                     | 186,13           | 14,30         | P5            |
| DAE          | 157,58                     | 186,13           | 15,90         | P5            |
| SLY          | 158,00                     | 176,00           | 4/17,5        | ND            |
| TC3          | 158,00                     | 182,00           | 18,00         |               |
| TB2          | 158,75                     | 182,56           | 15,90         | GD            |
| TB2I         | 158,75                     | 190,50           | 15,90         | GD            |
| SA2          | 158,75                     | 196,85           | 12,70         | P2            |
| TB           | 160,00                     | 180,00           | 13,00         | GD            |
| SA2          | 160,00                     | 180,00           | 15,00         | ND            |
| TB2          | 160,00                     | 180,00           | 15,00         | GD            |
| SCI          | 160,00                     | 190,00           | 15,00         |               |
| TA2          | 160,00                     | 190,00           | 15,00         | GD            |

| Tipo<br>Type | Dimensioni <i>Dimensions</i> (mm) |                            |                         | Note<br><i>Notes</i> |
|--------------|-----------------------------------|----------------------------|-------------------------|----------------------|
|              | Diametro <i>Diameter</i>          |                            | Altezza<br><i>Width</i> |                      |
|              | Interno<br><i>Internal</i>        | Esterno<br><i>External</i> |                         |                      |
| SB2          | 160,00                            | 190,00                     | 16,00                   | GD                   |
| TC9Y         | 160,00                            | 190,00                     | 19/21,6                 |                      |
| DB2          | 160,00                            | 195,00                     | 21,00                   | SSGD                 |
| TCS          | 160,50                            | 214,00                     | 13,00                   | GR                   |
| SCE          | 160,73                            | 183,20                     | 7,00                    |                      |
| SA2E         | 160,73                            | 186,13                     | 14,30                   | P5                   |
| DAE          | 160,73                            | 186,13                     | 15,90                   | P5                   |
| TA2          | 161,93                            | 200,00                     | 14,30                   | P2                   |
| TB           | 162,00                            | 182,00                     | 14,00                   | GD                   |
| TBCWY        | 163,00                            | 188,00                     | 14,5/17,5               | NDGR1                |
| PS17         | 164,31                            | 188,12/201,6               | 34,10                   | ND                   |
| SL           | 165,00                            | 171/203,15                 | 22,50                   | GD                   |
| OVY          | 165,00                            | 193,00                     | 7,00                    |                      |
| SAY          | 165,00                            | 195,00                     | 19,00                   | SSGD                 |
| SBY          | 165,00                            | 195,00                     | 19,00                   | SSGD                 |
| TA2          | 165,00                            | 203,00                     | 19,00                   | GD                   |
| TA2          | 165,00                            | 203,50                     | 19,00                   | GD                   |
| TB2I         | 165,10                            | 190,50                     | 12,70                   | GD                   |
| TA2          | 165,10                            | 190,50                     | 14,30                   | P0                   |
| SA2          | 165,10                            | 193,68                     | 15,90                   | P0                   |
| SCSAY        | 165,10                            | 211,73/223,16              | 16,90                   | SS                   |
| SCSY         | 165,10                            | 211,73/223,16              | 16,90                   | SS                   |
| OKCY         | 165,89                            | 194,47                     | 15,5/18,3               |                      |
| HTB42        | 168,00                            | 188/192,5                  | 30/32                   | SSGR                 |
| TB2Y         | 168,00                            | 188/190                    | 30/32                   | ND                   |
| VLX          | 170,00                            | 0,00                       | 0,00                    |                      |
| SL5          | 170,00                            | 187,50                     | 17,00                   | ND                   |
| TCWY         | 170,00                            | 190,00                     | 15,00                   | GR                   |
| SL5          | 170,00                            | 198,00                     | 28,80                   |                      |
| DC           | 170,00                            | 200,00                     | 15,00                   |                      |
| TA2          | 170,00                            | 200,00                     | 15,00                   | P9                   |
| TB2          | 171,45                            | 194,49                     | 12,70                   | POHRD                |
| TA2          | 171,45                            | 203,15                     | 15,00                   | GD                   |
| TB2          | 171,45                            | 203,20                     | 12,70                   | GD                   |
| SA2          | 174,63                            | 200,03                     | 15,88                   | P0                   |
| TA2          | 175,00                            | 200,00                     | 15,00                   | GD                   |
| DB2          | 177,00                            | 207,40                     | 24,50                   |                      |
| TBRA         | 177,80                            | 199,99                     | 7,90                    | POH                  |
| TA2          | 177,80                            | 203,20                     | 15,90                   | P0                   |
| TB2          | 177,80                            | 215,90                     | 12,70                   | P2                   |
| OKCY         | 178,00                            | 190,00                     | 6,5/11                  | ND                   |
| PS6          | 178,00                            | 195,5/199                  | 12,5/14                 |                      |
| OSC3         | 178,00                            | 200,00                     | 9/13                    | SUSGR                |
| TB           | 180,00                            | 200,00                     | 12,00                   | GD                   |
| TBCW         | 180,00                            | 200,00                     | 12,00                   | ND                   |
| TB           | 180,00                            | 200,00                     | 15,00                   | GD                   |
| TB           | 180,00                            | 200,00                     | 16,00                   | GD                   |
| SCE          | 180,00                            | 207,00                     | 9,80                    |                      |
| DB           | 180,00                            | 208,20                     | 20,50                   | ND                   |
| SCI          | 180,00                            | 210,00                     | 15,00                   |                      |
| TA2          | 180,00                            | 210,00                     | 15,00                   | GD                   |
| DA           | 180,00                            | 210,00                     | 22,00                   | GD                   |
| DAY          | 180,00                            | 210,00                     | 22,00                   | GD                   |
| TA2          | 180,00                            | 215,00                     | 16,00                   | GD                   |
| OKCY         | 181,00                            | 203,00                     | 21,00                   | ND                   |
| OKCY         | 181,00                            | 216,50                     | 21,00                   |                      |
| SCSAY        | 182,88                            | 228,47/239,9               | 16,90                   | SS                   |
| SCSY         | 182,88                            | 228,47/239,9               | 16,90                   | SS                   |
| HTCL         | 185,00                            | 210,00                     | 13,00                   |                      |
| OSA          | 185,00                            | 215,00                     | 14,00                   | ND                   |
| PS7          | 185,00                            | 219/222                    | 17,80                   | ND                   |
| PS7          | 185,00                            | 219/222                    | 19,80                   | ND                   |
| PS7          | 185,00                            | 219/222                    | 21,00                   |                      |
| OSA          | 185,00                            | 220,00                     | 14,00                   | ND                   |
| SCY          | 186,00                            | 203,00                     | 8/10,5                  | LF                   |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  | Note<br>Notes |
|--------------|----------------------------|---------------------|------------------|---------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |               |
|              | Interno<br>Internal        | Esterno<br>External |                  |               |
| SA2          | 187,33                     | 225,43              | 19,05            | P0            |
| SA2E         | 189,33                     | 215,90              | 19,05            | P5            |
| HTCL         | 190,00                     | 220,00              | 15,00            |               |
| SA2          | 190,00                     | 220,00              | 15,00            | GD            |
| TA2          | 190,00                     | 220,00              | 15,00            | GD            |
| SB5Y         | 190,50                     | 213,12/289,5        | 39,7/47,6        | ND            |
| TA2          | 190,50                     | 228,60              | 19,05            | P0            |
| SA2          | 193,68                     | 219,08              | 14,30            | ND            |
| CS           | 197,10                     | 225,43              | 11,10            | ND            |
| HTBL         | 200,00                     | 230,00              | 13,00            | GD            |
| HTCL         | 200,00                     | 230,00              | 15,00            |               |
| OSA          | 200,00                     | 230,00              | 15,00            | ND            |
| SCI          | 200,00                     | 230,00              | 15,00            |               |
| DB2          | 200,00                     | 240,00              | 15,00            | SSGD          |
| TBY          | 201,88                     | 234,95              | 15,90            | GD            |
| PS2          | 203,00                     | 241,20              | 6,5/10,5         |               |
| TA2          | 203,20                     | 228,60              | 15,90            | P0            |
| TBR          | 203,20                     | 228,60              | 19,05            | GD            |
| SCSAY        | 204,47                     | 251,61/263,04       | 18,80            | SS            |
| SCSY         | 204,47                     | 251,61/263,04       | 18,80            | SS            |
| VP           | 204,50                     | 258,00              | 13,00            |               |
| SA2          | 209,55                     | 234,95              | 12,70            | P0            |
| SBR          | 209,55                     | 234,95              | 15,90            | SSSND         |
| SL5          | 210,00                     | 238,00              | 28,80            | ND            |
| OKB          | 216,00                     | 242/275             | 9,50             | SUS           |
| DB2          | 216,50                     | 247,40              | 24,50            | ND            |
| SCI          | 220,00                     | 250,00              | 15,00            |               |
| TA2          | 220,00                     | 250,00              | 16,00            | P9            |
| OSA          | 220,00                     | 250,00              | 17,00            | ND            |
| UPH          | 225,00                     | 250,00              | 19,00            |               |
| SA2          | 228,60                     | 254,00              | 15,90            | GD            |
| TA2          | 228,60                     | 256,21              | 15,88            | P0            |
| SBY          | 228,60                     | 263,53              | 15,90            | ND            |
| SA2          | 228,60                     | 263,75              | 15,88            | GD            |
| SB           | 230,00                     | 254,00              | 12,00            | GD            |
| TA2Y         | 230,00                     | 257,80              | 13,30            | SSND          |
| TA4K         | 230,00                     | 260,00              | 15/18            | SSGD          |
| DB           | 232,00                     | 267,00              | 21,00            | SSGD          |
| KB           | 235,00                     | 260,00              | 10,00            | P1            |
| VB21         | 241,30                     | 273,05              | 7,90             | P2            |
| LBH          | 250,00                     | 266,00              | 9,5/12,5         |               |
| VP           | 250,00                     | 275,00              | 19,00            |               |
| SB           | 251,71                     | 279,33              | 15,90            | GD            |
| OSA          | 255,00                     | 290,00              | 16,00            | ND            |
| SA2          | 280,00                     | 310,00              | 16,00            | GD            |
| TB           | 285,75                     | 311,15              | 17,45            | GD            |
| PS2          | 285,75                     | 327,00              | 7,94             |               |
| KB           | 310,00                     | 332,00              | 10,00            | P1            |
| TB           | 314,33                     | 342,50              | 17,80            | GD            |
| UPH          | 320,00                     | 350,00              | 22,00            |               |
| TC7          | 408,90                     | 428,90              | 19,05/23,05      |               |
| KB           | 430,00                     | 453,00              | 10,00            | P1            |
| TC7          | 503,24                     | 528,62              | 19,05/23,05      |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |
|              |                            |                     |                  |               |

**Anelli Raschiatori**  
***Wipers seals***



**Tabelle dimensionali**  
***Dimensional tables***

## 1. Utilizzo

La funzione dei raschiatori è di proteggere la guarnizione di tenuta da eventuali infiltrazioni di particelle abrasive, quali terra, fango, sabbia, ecc. così da garantire l'efficienza ed una durata maggiore.

## 2. Condizioni di impiego

I raschiatori sono normalmente prodotti in mescola NBR per temperature da -30 °C a +100 °C con velocità assiale massima di 4 m/s.

Per temperature fino a 200 °C viene impiegata la mescola FPM.

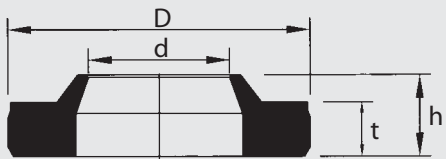
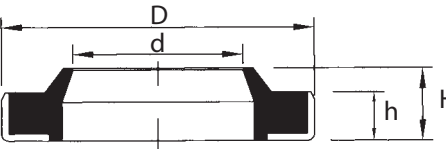
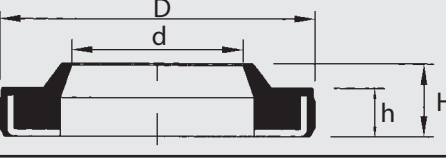
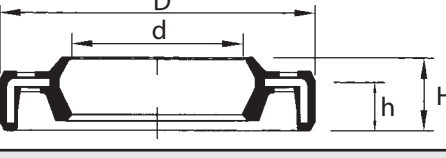
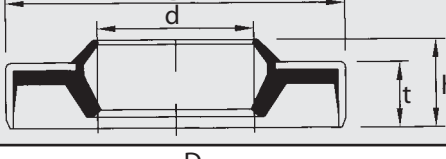
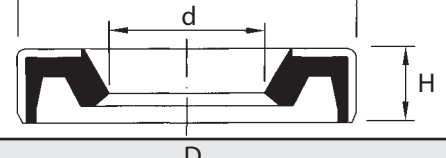
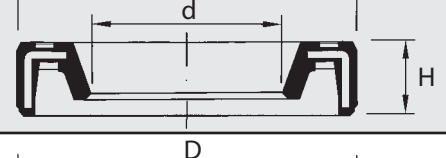
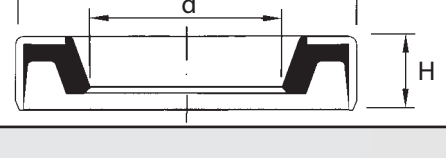
## 1. Use

The function of wipers is to protect the sealing element from dirt, grid or other abrasive parts in order to better guarantee efficiency and a prolonged life.

## 2. Working conditions

Wipers are normally produced in nitrile compounds to suit temperature from -30 °C to +100 °C and a maximum axial speed of 4 m/s.

For temperature up to 200 °C FPM compound can be employed.

| Profilo<br>Profil                                                                  | Tipo<br>Type | Materiale<br>Material                | Temperatura<br>Temperature | Dimensioni<br>Dimensions |
|------------------------------------------------------------------------------------|--------------|--------------------------------------|----------------------------|--------------------------|
|    | <b>DSI</b>   | <b>NBR</b>                           | <b>-30 °C<br/>+100 °C</b>  | <b>12 ÷ 200</b>          |
|   | <b>GA</b>    | <b>Metallo + NBR<br/>Metal + NBR</b> | <b>-30 °C<br/>+100 °C</b>  | <b>10 ÷ 200</b>          |
|  | <b>GC</b>    | <b>Metallo + NBR<br/>Metal + NBR</b> | <b>-30 °C<br/>+100 °C</b>  | <b>6 ÷ 220</b>           |
|  | <b>DKC</b>   | <b>Metallo + NBR<br/>Metal + NBR</b> | <b>-30 °C<br/>+100 °C</b>  | <b>8 ÷ 40</b>            |
|  | <b>DKB</b>   | <b>Metallo + NBR<br/>Metal + NBR</b> | <b>-40 °C<br/>+105 °C</b>  | <b>14 ÷ 250</b>          |
|  | <b>DWI</b>   | <b>Metallo + NBR<br/>Metal + NBR</b> | <b>-40 °C<br/>+105 °C</b>  | <b>12,7 ÷ 160</b>        |
|  | <b>WPC</b>   | <b>Metallo + NBR<br/>Metal + NBR</b> | <b>-30 °C<br/>+100 °C</b>  | <b>4,75 ÷ 85</b>         |
|  | <b>WPB</b>   | <b>Metallo + NBR<br/>Metal + NBR</b> | <b>-40 °C<br/>+105 °C</b>  | <b>6,40 ÷ 177,80</b>     |





| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| DSI          | 12,00                      | 18,00               | 3,5/5            |
| DSI          | 13,00                      | 19,00               | 3,5/5            |
| DSI          | 14,00                      | 19,00               | 2/5              |
| DSI          | 14,00                      | 21,00               | 3,5/5            |
| DSI          | 15,00                      | 21,00               | 3,5/5            |
| DSI          | 16,00                      | 22,00               | 3,5/5            |
| DSI          | 17,00                      | 23,00               | 3,5/5            |
| DSI          | 18,00                      | 24,00               | 3,5/5            |
| DSI          | 19,00                      | 28,00               | 5/7              |
| DSI          | 20,00                      | 28,00               | 5/7              |
| DSI          | 22,00                      | 30,00               | 5/7              |
| DSI          | 24,00                      | 32,00               | 5/7              |
| DSI          | 25,00                      | 33,00               | 5/7              |
| DSI          | 26,00                      | 32,00               | 2,5/4            |
| DSI          | 26,00                      | 34,00               | 5/7              |
| DSI          | 27,00                      | 35,00               | 5/7              |
| DSIY         | 28,00                      | 35,00               | 3,3/6,2          |
| DSIY         | 28,00                      | 35,00               | 3,3/6,2          |
| DSI          | 28,00                      | 36,00               | 5/7              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| DSI          | 28,00                      | 38,00               | 5/7              |
| DSI          | 28,58                      | 39,12               | 5,8/8,1          |
| DSI          | 30,00                      | 38,00               | 5/7              |
| DSI          | 32,00                      | 40,00               | 5/7              |
| DSI          | 33,00                      | 41,00               | 5/7              |
| DSI          | 35,00                      | 43,00               | 5/7              |
| DSI          | 36,00                      | 44,00               | 5/7              |
| DSI          | 38,00                      | 46,00               | 5/7              |
| DSI          | 40,00                      | 48,00               | 5/7              |
| DSI          | 42,00                      | 50,00               | 5/7              |
| DSI          | 45,00                      | 53,00               | 5/7              |
| DSI          | 45,00                      | 55,00               | 5/7              |
| DSI          | 50,00                      | 58,00               | 5/7              |
| DSI          | 50,00                      | 60,00               | 5/7              |
| DSI          | 55,00                      | 63,00               | 5/7              |
| DSI          | 55,00                      | 65,00               | 5/7              |
| DSI          | 56,00                      | 66,00               | 5/7              |
| DSI          | 60,00                      | 68,00               | 5/7              |
| DSI          | 60,00                      | 70,00               | 5/7              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| DSI          | 63,00                      | 71,00               | 5/7              |
| DSI          | 63,00                      | 73,00               | 5/7              |
| DSI          | 65,00                      | 73,00               | 5/7              |
| DSI          | 65,00                      | 75,00               | 5/7              |
| DSI          | 70,00                      | 78,00               | 5/7              |
| DSI          | 70,00                      | 80,00               | 5/7              |
| DSI          | 73,00                      | 81,00               | 5/7              |
| DSI          | 75,00                      | 83,00               | 5/7              |
| DSI          | 75,00                      | 87,00               | 7/12             |
| DSI          | 80,00                      | 92,00               | 7/12             |
| DSI          | 85,00                      | 93,00               | 5/7              |
| DSI          | 90,00                      | 102,00              | 7/12             |
| DSI          | 90,00                      | 107,00              | 7/12             |
| DSI          | 100,00                     | 112,00              | 7/12             |
| DSI          | 105,00                     | 117,00              | 7/12             |
| DSI          | 135,00                     | 147,00              | 7/12,5           |
| DSI          | 225,00                     | 238,00              | 7/9,5            |
| DSI          | 320,00                     | 340,00              | 10/14            |
| KBR          | 5,00                       | 13,00               | 8,00             |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| GAY          | 8,00                       | 18,00               | 5,5/7            |
| GA           | 10,00                      | 16,00               | 3/4,5            |
| GA           | 10,00                      | 20,00               | 5/8              |
| GA           | 11,10                      | 16,66               | 6,1/8,5          |
| GA           | 12,00                      | 20,00               | 4/6              |
| GA           | 12,00                      | 22,00               | 5/8              |
| GA           | 12,70                      | 18,00               | 3/4,5            |
| GA           | 14,00                      | 20,00               | 3,5/5            |
| GA           | 14,00                      | 22,00               | 3/4              |
| GA           | 14,00                      | 25,00               | 5/8              |
| GA           | 15,00                      | 25,00               | 5/8              |
| GA           | 15,88                      | 22,23               | 3,2/4,7          |
| GA           | 16,00                      | 22,00               | 3/4              |
| GA           | 16,00                      | 26,00               | 5/8              |
| GA           | 18,00                      | 28,00               | 7/10             |
| GA           | 18,00                      | 35,00               | 5/8              |
| GA           | 19,00                      | 31,75               | 3,2/4            |
| GA           | 19,05                      | 26,99               | 6,4/9,5          |
| GA           | 19,05                      | 28,58               | 4,8/7,6          |
| GA           | 20,00                      | 28,00               | 3/5              |
| GA           | 20,00                      | 28,00               | 3,5/5            |
| GA           | 20,00                      | 28,00               | 5/8              |
| GA           | 20,00                      | 30,00               | 4/6              |
| GA           | 20,00                      | 30,00               | 7/10             |
| GA           | 20,00                      | 35,00               | 7/10             |
| GA           | 22,00                      | 28,00               | 5/8              |
| GA           | 22,00                      | 32,00               | 5/8              |
| GA           | 22,00                      | 32,00               | 5/7              |
| GA           | 22,00                      | 32,00               | 7/10             |
| GA           | 22,00                      | 35,00               | 5/8              |
| GA           | 24,00                      | 32,00               | 5/7              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| GA           | 25,00                      | 31,00               | 5/7              |
| GA           | 25,00                      | 35,00               | 5/8              |
| GA           | 25,00                      | 35,00               | 7/10             |
| GA           | 25,40                      | 34,93               | 6,4/9,5          |
| GA           | 25,40                      | 38,10               | 6,4/9,5          |
| GA           | 26,00                      | 34,00               | 5/8              |
| GA           | 28,00                      | 36,00               | 5/8              |
| GA           | 28,00                      | 38,00               | 5/8              |
| GA           | 28,00                      | 38,00               | 7/10             |
| GA           | 28,00                      | 40,00               | 7/10             |
| GA           | 30,00                      | 40,00               | 5/8              |
| GA           | 30,00                      | 40,00               | 7/10             |
| GA           | 32,00                      | 42,00               | 7/10             |
| GA           | 32,00                      | 45,00               | 5/8              |
| GA           | 32,00                      | 45,00               | 7/10             |
| GA           | 35,00                      | 41,00               | 5/7              |
| GA           | 35,00                      | 45,00               | 7/10             |
| GA           | 36,00                      | 45,00               | 5/7              |
| GA           | 36,00                      | 45,00               | 7/10             |
| GA           | 36,00                      | 46,00               | 7/10             |
| GA           | 37,00                      | 47,00               | 5/8              |
| GA           | 38,00                      | 45,00               | 3/4              |
| GA           | 40,00                      | 50,00               | 5/8              |
| GA           | 40,00                      | 50,00               | 7/10             |
| GA           | 42,00                      | 52,00               | 7/10             |
| GA           | 45,00                      | 55,00               | 7/10             |
| GA           | 45,00                      | 60,00               | 7/10             |
| GA           | 48,00                      | 60,00               | 7/10             |
| GA           | 50,00                      | 56,00               | 5/7              |
| GA           | 50,00                      | 60,00               | 7/10             |
| GA           | 50,00                      | 65,00               | 5/8              |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| GA           | 52,00                      | 62,00               | 7/10             |
| GA           | 55,00                      | 63,00               | 7/10             |
| GA           | 55,00                      | 65,00               | 7/10             |
| GA           | 55,00                      | 70,00               | 7/10             |
| GA           | 56,00                      | 65,00               | 5/7              |
| GA           | 56,00                      | 65,00               | 7/10             |
| GA           | 56,00                      | 66,00               | 7/10             |
| GA           | 60,00                      | 70,00               | 7/10             |
| GA           | 63,00                      | 73,00               | 7/10             |
| GA           | 63,00                      | 75,00               | 7/10             |
| GA           | 65,00                      | 75,00               | 7/10             |
| GA           | 70,00                      | 80,00               | 7/10             |
| GA           | 75,00                      | 85,00               | 7/10             |
| GA           | 80,00                      | 88,00               | 7/10             |
| GA           | 80,00                      | 90,00               | 7/10             |
| GA           | 85,00                      | 95,00               | 7/10             |
| GA           | 90,00                      | 100,00              | 7/10             |
| GA           | 95,00                      | 105,00              | 7/10             |
| GA           | 100,00                     | 110,00              | 7/10             |
| GA           | 110,00                     | 120,00              | 7/10             |
| GA           | 115,00                     | 125,00              | 7/10             |
| GA           | 120,00                     | 130,00              | 7/10             |
| GA           | 120,00                     | 130,00              | 7/10             |
| GA           | 125,00                     | 140,00              | 9/12             |
| GA           | 130,00                     | 140,00              | 7/10             |
| GA           | 130,00                     | 145,00              | 9/12             |
| GA           | 140,00                     | 155,00              | 9/12             |
| GA           | 145,00                     | 170,00              | 9/12             |
| GA           | 160,00                     | 175,00              | 9/12             |
| GA           | 170,00                     | 185,00              | 10/14            |
| GA           | 180,00                     | 195,00              | 10/14            |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| GC           | 6,00                       | 13,00            | 3,5/4,5       |
| GC           | 8,00                       | 14,00            | 3,5/5         |
| GC           | 10,00                      | 16,00            | 3,5/5         |
| GC           | 10,00                      | 20,00            | 5/8           |
| GC           | 12,00                      | 18,00            | 3,5/5         |
| GC           | 12,70                      | 17,42            | 3,2/4,5       |
| GC           | 14,00                      | 20,00            | 3,5/5         |
| GC           | 15,00                      | 21,00            | 3,5/5         |
| GC           | 15,00                      | 25,00            | 5/8           |
| GC           | 16,00                      | 22,00            | 3,5/5         |
| GC           | 16,00                      | 26,00            | 5/8           |
| GC           | 18,00                      | 24,00            | 4/7           |
| GC           | 18,00                      | 28,00            | 5/7           |
| GC           | 18,00                      | 28,00            | 7/10          |
| GCW          | 18,00                      | 28,00            | 7/10          |
| GC           | 20,00                      | 30,00            | 5/7           |
| GC           | 20,00                      | 30,00            | 7/10          |
| GC           | 22,00                      | 32,00            | 5/7           |
| GC           | 22,00                      | 32,00            | 7/10          |
| GC           | 24,00                      | 35,00            | 5/8           |
| GC           | 25,00                      | 32,00            | 5/7           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| GC           | 25,00                      | 35,00            | 5/7           |
| GC           | 25,00                      | 35,00            | 7/10          |
| GC           | 26,00                      | 35,00            | 7/10          |
| GC           | 28,00                      | 38,00            | 5/7           |
| GC           | 28,00                      | 40,00            | 7/10          |
| GC           | 30,00                      | 40,00            | 5/7           |
| GC           | 30,00                      | 40,00            | 7/10          |
| GC           | 30,00                      | 45,00            | 7/10          |
| GC           | 32,00                      | 42,00            | 5/7           |
| GC           | 32,00                      | 45,00            | 7/10          |
| GC           | 35,00                      | 45,00            | 7/10          |
| GC           | 36,00                      | 45,00            | 7/10          |
| GC           | 36,00                      | 46,00            | 5/7           |
| GC           | 38,00                      | 48,00            | 7/10          |
| GC           | 40,00                      | 50,00            | 5/8           |
| GC           | 40,00                      | 50,00            | 7/10          |
| GC           | 45,00                      | 55,00            | 5/7           |
| GC           | 45,00                      | 55,00            | 7/10          |
| GC           | 50,00                      | 60,00            | 5/7           |
| GC           | 50,00                      | 60,00            | 7/10          |
| GC           | 55,00                      | 65,00            | 5/7           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| GC           | 55,00                      | 65,00            | 7/10          |
| GC           | 60,00                      | 70,00            | 5/7           |
| GC           | 60,00                      | 70,00            | 7/10          |
| GC           | 65,00                      | 75,00            | 5/7           |
| GC           | 65,00                      | 75,00            | 7/10          |
| GC           | 70,00                      | 80,00            | 5/7           |
| GC           | 70,00                      | 80,00            | 7/10          |
| GC           | 75,00                      | 83,00            | 7/10          |
| GC           | 75,00                      | 85,00            | 7/10          |
| GC           | 80,00                      | 88,00            | 7/10          |
| GC           | 80,00                      | 90,00            | 7/10          |
| GC           | 85,00                      | 95,00            | 7/10          |
| GC           | 90,00                      | 100,00           | 7/10          |
| GC           | 100,00                     | 110,00           | 7/10          |
| GC           | 100,00                     | 120,00           | 7/10          |
| GC           | 110,00                     | 120,00           | 7/10          |
| GC           | 120,00                     | 130,00           | 7/10          |
| GC           | 130,00                     | 145,00           | 9/12          |
| GC           | 140,00                     | 155,00           | 9/12          |
| GC           | 150,00                     | 165,00           | 9/12          |
| GC           | 160,00                     | 175,00           | 9/12          |

# Raschiatori Wipers

DKC



| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| DKC          | 8,00                       | 15,00            | 4/6           |
| DKC          | 10,00                      | 18,00            | 5/7           |
| DKC          | 18,00                      | 26,00            | 6/8,5         |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| DKC          | 18,00                      | 27,00            | 5,5/8,5       |
| DKC          | 25,00                      | 32,00            | 5/7           |
| DKC          | 32,00                      | 44,00            | 6/7           |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| DKC          | 40,00                      | 50,00            | 6,5/8         |

# Raschiatori Wipers

DKB



| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| DKB          | 7,90                       | 12,70            | 3             |
| DKB          | 14,00                      | 22,00            | 4/5,5         |
| DKB          | 14,00                      | 24,00            | 5/7           |
| DKB          | 16,00                      | 26,00            | 5/7           |
| DKB          | 18,00                      | 30,00            | 6/9           |
| DKB          | 19,00                      | 26,00            | 5/7           |
| DKB          | 19,00                      | 27,00            | 4/7           |
| DKB          | 19,00                      | 31,00            | 6/9           |
| DKB          | 19,00                      | 32,00            | 6/9           |
| DKB          | 20,00                      | 30,00            | 4/6           |
| DKB          | 20,00                      | 32,00            | 6/9           |
| DKB          | 22,00                      | 32,00            | 6/9           |
| DKB          | 22,00                      | 33,10            | 6,5/8         |
| DKB          | 22,00                      | 34,00            | 6/9           |
| DKB          | 25,00                      | 37,00            | 6/9           |
| DKB          | 28,00                      | 38,00            | 7/10          |
| DKB          | 28,00                      | 40,00            | 6/9           |
| DKB          | 30,00                      | 42,00            | 6/9           |
| DKB          | 30,00                      | 45,00            | 6/9           |
| DKB          | 30,00                      | 47,00            | 6/9           |
| DKB          | 32,00                      | 44,00            | 7/10          |
| DKB          | 32,00                      | 45,00            | 5/8           |
| DKB          | 32,00                      | 45,00            | 7/10          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| DKB          | 32,00                      | 52,00            | 5/8           |
| DKB          | 32,00                      | 52,00            | 8/11          |
| DKB          | 35,00                      | 47,00            | 7/10          |
| DKB          | 36,00                      | 48,00            | 7/10          |
| DKB          | 38,00                      | 48,00            | 7/10          |
| DKB          | 40,00                      | 50,00            | 7/10          |
| DKB          | 40,00                      | 52,00            | 7/10          |
| DKB          | 44,45                      | 60,20            | 7,1/9         |
| DKB          | 45,00                      | 57,00            | 7/10          |
| DKB          | 45,00                      | 68,00            | 7/10          |
| DKB          | 50,00                      | 62,00            | 7/10          |
| DKB          | 50,00                      | 72,00            | 8/11          |
| DKB          | 55,00                      | 65,00            | 7/10          |
| DKB          | 55,00                      | 69,00            | 8/11          |
| DKB          | 56,00                      | 70,00            | 8/11          |
| DKB          | 60,00                      | 74,00            | 8/11          |
| DKB          | 60,00                      | 82,00            | 11/14         |
| DKB          | 63,00                      | 77,00            | 8/11          |
| DKB          | 65,00                      | 79,00            | 8/11          |
| DKBY         | 66,00                      | 80,00            | 8/10          |
| DKB          | 70,00                      | 84,00            | 8/11          |
| DKB          | 75,00                      | 89,00            | 8/11          |
| DKB          | 80,00                      | 94,00            | 8/11          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| DKB          | 85,00                      | 99,00            | 8/11          |
| DKB          | 90,00                      | 104,00           | 8/11          |
| DKB          | 95,00                      | 109,00           | 8/11          |
| DKB          | 100,00                     | 114,00           | 8/11          |
| DKB          | 105,00                     | 121,00           | 9/12          |
| DKB          | 110,00                     | 126,00           | 9/12          |
| DKB          | 112,00                     | 128,00           | 9/12          |
| DKB          | 115,00                     | 131,00           | 9/12          |
| DKB          | 120,00                     | 136,00           | 9/12          |
| DKB          | 125,00                     | 141,00           | 9/12          |
| DKB          | 130,00                     | 146,00           | 9/12          |
| DKB          | 140,00                     | 160,00           | 10/14         |
| DKB          | 145,00                     | 165,00           | 10/14         |
| DKB          | 150,00                     | 170,00           | 10/14         |
| DKB          | 155,00                     | 175,00           | 10/14         |
| DKB          | 160,00                     | 180,00           | 10/14         |
| DKB          | 170,00                     | 190,00           | 10/14         |
| DKB          | 175,00                     | 195,00           | 10/14         |
| DKB          | 180,00                     | 205,00           | 12/17         |
| DKB          | 200,00                     | 225,00           | 12/17         |
| DKB          | 225,00                     | 250,00           | 12/17         |
| DKB          | 250,00                     | 275,00           | 12/17         |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| DWI          | 12,70                      | 22,23               | 5,60             |
| DWI          | 22,23                      | 34,93               | 7,90             |
| DWI          | 25,00                      | 35,00               | 4,00             |
| DWI          | 25,00                      | 39,80               | 3,20             |
| DWI          | 30,00                      | 40,00               | 4,20             |
| DWI          | 31,75                      | 44,45               | 7,90             |
| DWI          | 34,93                      | 41,28               | 3,20             |
| DWI          | 35,00                      | 45,00               | 4,00             |
| DWI          | 38,00                      | 48,00               | 4,00             |
| DWI          | 38,00                      | 50,00               | 4,00             |
| DWI          | 38,10                      | 50,80               | 4,80             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| DWI          | 38,10                      | 50,80               | 7,90             |
| DWI          | 40,00                      | 50,00               | 4,00             |
| DWI          | 41,28                      | 48,42               | 6,40             |
| DWI          | 41,28                      | 53,98               | 7,90             |
| DWI          | 45,00                      | 55,00               | 4,00             |
| DWI          | 50,00                      | 60,00               | 4,00             |
| DWI          | 50,80                      | 63,50               | 7,90             |
| DWI          | 52,00                      | 68,00               | 6,00             |
| DWI          | 60,00                      | 70,00               | 4,00             |
| DWI          | 60,00                      | 75,00               | 5,00             |
| DWI          | 60,00                      | 75,00               | 6,00             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| DWI          | 60,00                      | 75,00               | 8,00             |
| DWI          | 63,50                      | 76,20               | 7,90             |
| DWI          | 70,00                      | 80,00               | 6,00             |
| DWI          | 70,00                      | 85,00               | 5,00             |
| DWI          | 70,00                      | 85,00               | 7,50             |
| DWI          | 80,00                      | 95,00               | 5,00             |
| DWI          | 80,00                      | 95,00               | 7,50             |
| DWI          | 88,90                      | 104,78              | 7,90             |
| DWI          | 90,00                      | 105,00              | 6,00             |
| DWI          | 100,00                     | 120,00              | 7,00             |
| DWI          | 160,00                     | 190,00              | 8,00             |



| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| WPC          | 4,75                       | 11,10               | 3,20             |
| WPC          | 4,77                       | 10,00               | 3,20             |
| WPC          | 6,00                       | 13,00               | 4,80             |
| WPC          | 9,50                       | 14,29               | 2,40             |
| WPC          | 9,50                       | 19,05               | 4,80             |
| WPC          | 13,34                      | 19,05               | 3,00             |
| WPC          | 18,54                      | 28,70               | 5,50             |
| WPC          | 19,05                      | 31,75               | 6,40             |
| WPC          | 25,00                      | 35,00               | 4,00             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| WPC          | 25,40                      | 31,75               | 3,20             |
| WPC          | 26,96                      | 33,73               | 4,10             |
| WPC          | 28,17                      | 34,72               | 3,50             |
| WPC          | 28,58                      | 39,67               | 4,80             |
| WPC          | 29,00                      | 38,10               | 6,00             |
| WPC          | 31,75                      | 43,18               | 6,40             |
| WPC          | 31,75                      | 45,00               | 7,00             |
| WPC          | 32,00                      | 45,00               | 4,00             |
| WPC          | 33,30                      | 46,02               | 4,10             |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                     |                  |
|--------------|----------------------------|---------------------|------------------|
|              | Diametro Diameter          |                     | Altezza<br>Width |
|              | Interno<br>Internal        | Esterno<br>External |                  |
| WPCA         | 33,30                      | 46,02               | 4,10             |
| WPC          | 35,00                      | 45,00               | 6,00             |
| WPC          | 44,45                      | 63,55               | 6,40             |
| WPC          | 50,00                      | 62,00               | 5,00             |
| WPC          | 85,00                      | 95,00               | 5,00             |
|              |                            |                     |                  |
|              |                            |                     |                  |
|              |                            |                     |                  |
|              |                            |                     |                  |





| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| WPB          | 6,40                       | 11,10            | 3,20          |
| WPB          | 7,90                       | 14,38            | 3,20          |
| WPB          | 7,90                       | 15,90            | 4,00          |
| WPB          | 9,50                       | 15,88            | 3,20          |
| WPB          | 9,50                       | 17,46            | 4,00          |
| WPB          | 9,50                       | 17,46            | 4,00          |
| WPB          | 9,53                       | 14,29            | 2,40          |
| WPB          | 11,10                      | 22,23            | 4,80          |
| WPB          | 11,91                      | 21,23            | 4,80          |
| WPB          | 12,70                      | 19,05            | 3,20          |
| WPB          | 14,29                      | 20,64            | 3,20          |
| WPB          | 15,88                      | 22,23            | 3,20          |
| WPB          | 15,88                      | 23,81            | 4,80          |
| WPB          | 15,88                      | 26,99            | 6,40          |
| WPB          | 15,88                      | 31,75            | 6,40          |
| WPB          | 17,46                      | 23,81            | 3,20          |
| WPB          | 17,46                      | 25,37            | 4,80          |
| WPB          | 17,48                      | 25,48            | 4,80          |
| WPB          | 19,05                      | 25,40            | 3,20          |
| WPB          | 19,05                      | 28,58            | 4,80          |
| WPB          | 19,05                      | 31,75            | 6,40          |
| WPB          | 19,50                      | 26,99            | 4,80          |
| WPB          | 20,00                      | 28,00            | 4,00          |
| WPB          | 20,64                      | 26,99            | 3,20          |
| WPB          | 22,23                      | 28,58            | 3,20          |
| WPB          | 22,23                      | 28,58            | 3,20          |
| WPB          | 22,23                      | 31,75            | 4,80          |
| WPB          | 23,00                      | 28,00            | 3,00          |
| WPB          | 23,81                      | 30,16            | 3,20          |
| WPB          | 24,80                      | 42,00            | 4,80          |
| WPB          | 24,80                      | 42,00            | 4,80          |
| WPB          | 24,99                      | 46,43            | 4,80          |
| WPB          | 25,00                      | 32,00            | 4,00          |
| WPB          | 25,40                      | 31,75            | 3,20          |
| WPB          | 25,40                      | 34,93            | 4,80          |
| WPB          | 25,40                      | 38,10            | 4,80          |
| WPB          | 25,40                      | 38,10            | 7,90          |
| WPB          | 25,40                      | 41,25            | 6,40          |
| WPB          | 26,95                      | 33,32            | 3,20          |
| WPB          | 26,99                      | 38,10            | 3,20          |
| WPB          | 26,99                      | 38,10            | 4,80          |
| WPB          | 26,99                      | 38,10            | 4,80          |
| WPB          | 28,58                      | 34,93            | 3,20          |
| WPB          | 28,58                      | 38,10            | 4,80          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| WPB          | 28,58                      | 39,65            | 6,40          |
| WPB          | 28,58                      | 41,28            | 4,80          |
| WPB          | 28,58                      | 41,28            | 6,40          |
| WPB          | 30,00                      | 40,00            | 4,00          |
| WPB          | 30,16                      | 39,69            | 4,80          |
| WPB          | 30,18                      | 41,33            | 6,40          |
| WPB          | 31,75                      | 38,10            | 3,20          |
| WPB          | 31,75                      | 38,10            | 4,00          |
| WPB          | 31,75                      | 41,28            | 6,40          |
| WPB          | 31,75                      | 42,86            | 3,20          |
| WPB          | 31,75                      | 42,86            | 4,80          |
| WPB          | 31,75                      | 42,86            | 4,80          |
| WPB          | 31,75                      | 42,93            | 4,80          |
| WPB          | 31,75                      | 44,45            | 7,90          |
| WPB          | 31,75                      | 44,50            | 6,40          |
| WPB          | 31,75                      | 47,60            | 6,40          |
| WPB          | 33,34                      | 39,69            | 3,20          |
| WPB          | 34,93                      | 41,28            | 3,20          |
| WPB          | 34,93                      | 44,45            | 4,80          |
| WPB          | 34,93                      | 44,45            | 6,40          |
| WPB          | 34,93                      | 47,63            | 6,40          |
| WPB          | 34,93                      | 50,80            | 7,90          |
| WPB          | 37,80                      | 62,03            | 4,70          |
| WPB          | 38,10                      | 44,45            | 9,50          |
| WPB          | 38,10                      | 45,00            | 4,80          |
| WPB          | 38,10                      | 47,63            | 3,20          |
| WPB          | 38,10                      | 47,63            | 4,80          |
| WPB          | 38,10                      | 47,63            | 6,40          |
| WPB          | 38,10                      | 50,80            | 6,40          |
| WPB          | 38,10                      | 50,80            | 6,40          |
| WPB          | 38,10                      | 50,80            | 7,90          |
| WPB          | 38,10                      | 61,91            | 6,40          |
| WPB          | 39,69                      | 52,37            | 5,20          |
| WPB          | 41,28                      | 47,63            | 4,00          |
| WPB          | 41,28                      | 50,80            | 4,80          |
| WPB          | 41,28                      | 53,98            | 6,40          |
| WPB          | 44,45                      | 52,39            | 3,40          |
| WPB          | 44,45                      | 53,98            | 4,80          |
| WPB          | 44,45                      | 57,15            | 4,80          |
| WPB          | 44,45                      | 57,15            | 6,40          |
| WPB          | 44,45                      | 57,15            | 6,40          |
| WPB          | 44,45                      | 57,15            | 7,90          |
| WPB          | 44,45                      | 60,30            | 6,40          |
| WPB          | 44,45                      | 61,91            | 9,50          |

| Tipo<br>Type | Dimensioni Dimensions (mm) |                  |               |
|--------------|----------------------------|------------------|---------------|
|              | Diametro Diameter          |                  | Altezza Width |
|              | Interno Internal           | Esterno External |               |
| WPB          | 44,45                      | 66,62            | 6,40          |
| WPB          | 47,63                      | 57,15            | 4,80          |
| WPB          | 47,63                      | 63,50            | 6,40          |
| WPB          | 50,80                      | 60,33            | 4,80          |
| WPB          | 50,80                      | 63,50            | 6,40          |
| WPB          | 50,80                      | 66,62            | 6,40          |
| WPB          | 50,80                      | 66,68            | 6,40          |
| WPB          | 50,80                      | 66,68            | 6,40          |
| WPB          | 50,80                      | 68,22            | 6,40          |
| WPB          | 53,98                      | 63,50            | 4,80          |
| WPBY         | 54,00                      | 73,00            | 6/9,5         |
| WPB          | 57,15                      | 63,50            | 4,80          |
| WPB          | 57,15                      | 66,68            | 4,80          |
| WPB          | 57,15                      | 66,68            | 6,40          |
| WPB          | 57,15                      | 69,85            | 6,40          |
| WPB          | 57,15                      | 73,03            | 6,40          |
| WPB          | 60,33                      | 73,03            | 6,40          |
| WPB          | 63,50                      | 76,20            | 6,40          |
| WPB          | 63,50                      | 79,38            | 6,40          |
| WPB          | 66,68                      | 79,38            | 6,40          |
| WPB          | 69,85                      | 79,38            | 4,80          |
| WPB          | 69,85                      | 82,55            | 6,40          |
| WPB          | 73,03                      | 85,62            | 6,40          |
| WPB          | 76,20                      | 88,90            | 6,40          |
| WPB          | 76,20                      | 101,68           | 12,70         |
| WPB          | 79,38                      | 95,25            | 7,94          |
| WPB          | 82,55                      | 95,25            | 6,40          |
| WPB          | 82,55                      | 107,95           | 12,70         |
| WPB          | 88,90                      | 98,43            | 4,80          |
| WPB          | 88,90                      | 101,60           | 7,90          |
| WPB          | 88,90                      | 101,68           | 6,40          |
| WPB          | 88,90                      | 114,30           | 12,70         |
| WPB          | 107,95                     | 120,80           | 7,90          |
| WPB          | 107,95                     | 133,35           | 12,70         |
| WPB          | 120,65                     | 146,05           | 12,70         |
| WPB          | 127,00                     | 152,40           | 12,70         |
| WPB          | 133,35                     | 158,75           | 6,40          |
| WPB          | 139,70                     | 155,58           | 9,10          |
| WPB          | 177,80                     | 203,20           | 12,70         |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |
|              |                            |                  |               |

# **Anelli V-Ring** ***V-Ring seals***



**Tabelle dimensionali**  
***Dimensional tables***

Il V-ring è un anello di tenuta completamente in gomma per alberi rotanti.  
Il suo labbro flessibile, a forma conica, esercita una pressione sulla controfaccia fissa assicurando una tenuta dinamica frontale.

*The V-ring is an all rubber seal all protected with metal ring for rotating shaft.  
Its flexible conical shaped lip rotates with the shaft and seals axially against a stationary counterface.*

### VANTAGGI

- Montaggio semplice
- Basso attrito e perdite di carico molto basse
- Funzionamento anche con albero disassato ed obliquo
- Nessuna usura dell'albero
- Possibilità di funzionamento a secco a basse velocità
- Possibilità di usare una sola misura per diversi diametri di albero
- Ulteriore protezione da elementi esterni con anello metallico

### ADVANTAGES

- Easy to be fitted
- Low friction and very low power losses
- Can be used even with considerable end play and shaft misalignment
- No shaft wear
- Capability of running dry in low speed applications
- One size of v-ring can be used for many shaft sizes
- Further protection with metal ring

### PARTI METALLICHE

Il V-Ring, grazie alla sua natura elastica, non richiede che le superfici di contatto abbiano particolari valori di rugosità, valori compresi tra  $0,8 \div 1,6 \mu\text{m}$  sono di soddisfazione per ogni esigenza.

Per applicazioni ad alte velocità e/o con fluidi particolari, i valori debbono essere diminuiti.

Per l'albero, non è richiesto un valore particolare di tolleranza e di rugosità.

### METAL PARTS

*The V-Ring, because of its elastic nature, does not need particular surface finish, medium value between  $0,8 \div 1,6 \mu\text{m}$  can satisfy most of the applications.*

*For high speed applications or particular medium above values must be reduced.*

*For the shaft the requirements regarding tolerances and surface finish are moderate.*

### MONTAGGIO

Il montaggio del v-ring, è molto semplice, l'operazione può essere eseguita con o senza l'ausilio di un semplice attrezzo, allargando il diametro interno dell'anello per essere calzato sull'albero.

Assicurarsi il rispetto della quota di precarico assiale dell'anello.

### FITTING

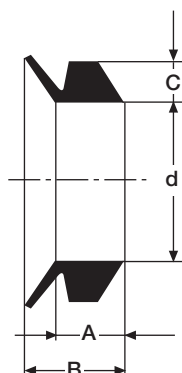
*Fitting the v-ring is very simple.*

*The operation can be made with, or without, axial support stretching and pushing it along the shaft.*

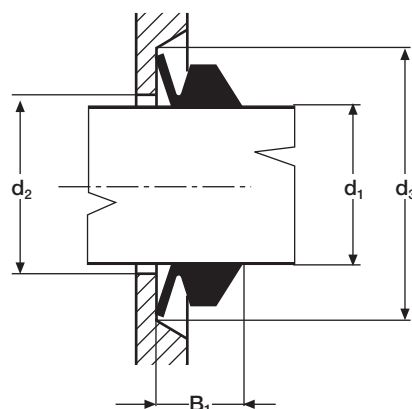
*Be sure of the pre-load.*

| Profilo<br>Profil                                                                   | Tipo<br>Type | Materiale<br>Material | Temperatura<br>Temperature       | Diametro albero<br>Shaft diameter | Tab. dim. pag.<br>Dim. tab. pag. |
|-------------------------------------------------------------------------------------|--------------|-----------------------|----------------------------------|-----------------------------------|----------------------------------|
|  | VS           | NBR<br>FPM            | -30 °C +100 °C<br>-30 °C +200 °C | 4,5 ÷ 210                         | 113                              |
|  | VA           | NBR<br>FPM            | -30 °C +100 °C<br>-30 °C +200 °C | 2,7 ÷ 2020                        | 114                              |
|  | VL           | NBR<br>FPM            | -30 °C +100 °C<br>-30 °C +200 °C | 125 ÷ 625                         | 116                              |



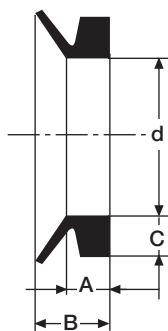


Dimensioni anello libero  
Free seal dimensions

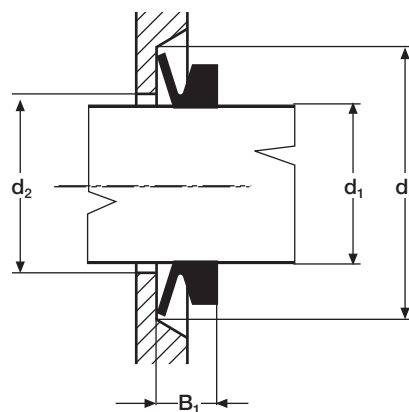


Quote di montaggio  
Fitting dimensions

| Sigla<br>Designation | Ø albero<br>Ø shaft<br>$d_1$ | Dimensioni anello libero (mm)<br>Free seal dimensions (mm) |   |      |      | Quote di montaggio (mm)<br>Fitting dimensions (mm) |            |                |
|----------------------|------------------------------|------------------------------------------------------------|---|------|------|----------------------------------------------------|------------|----------------|
|                      |                              | d                                                          | C | A    | B    | $d_2$                                              | $d_3$      | $B_1$          |
| VS 5                 | 4,5 – 5,5                    | 4                                                          | 2 | 3,9  | 5,2  | $d_1 + 1$                                          | $d_1 + 6$  | $4,5 \pm 0,4$  |
| VS 6                 | 5,5 – 6,5                    | 5                                                          | 2 | 3,9  | 5,2  | $d_1 + 1$                                          | $d_1 + 6$  | $4,5 \pm 0,4$  |
| VS 7                 | 6,5 – 8                      | 6                                                          | 2 | 3,9  | 5,2  | $d_1 + 1$                                          | $d_1 + 6$  | $4,5 \pm 0,4$  |
| VS 8                 | 8 – 9,5                      | 7                                                          | 2 | 3,9  | 5,2  | $d_1 + 1$                                          | $d_1 + 6$  | $4,5 \pm 0,4$  |
| VS 10                | 9,5 – 11,5                   | 9                                                          | 3 | 5,6  | 7,7  | $d_1 + 2$                                          | $d_1 + 9$  | $6,7 \pm 0,6$  |
| VS 12                | 11,5 – 13,5                  | 10,5                                                       | 3 | 5,6  | 7,7  | $d_1 + 2$                                          | $d_1 + 9$  | $6,7 \pm 0,6$  |
| VS 14                | 13,5 – 15,5                  | 12,5                                                       | 3 | 5,6  | 7,7  | $d_1 + 2$                                          | $d_1 + 9$  | $6,7 \pm 0,6$  |
| VS 16                | 15,5 – 17,5                  | 14                                                         | 3 | 5,6  | 7,7  | $d_1 + 2$                                          | $d_1 + 9$  | $6,7 \pm 0,6$  |
| VS 18                | 17,5 – 19                    | 16                                                         | 3 | 5,6  | 7,7  | $d_1 + 2$                                          | $d_1 + 9$  | $6,7 \pm 0,6$  |
| VS 20                | 19 – 21                      | 18                                                         | 4 | 7,9  | 10,5 | $d_1 + 2$                                          | $d_1 + 12$ | $9 \pm 0,8$    |
| VS 22                | 21 – 24                      | 20                                                         | 4 | 7,9  | 10,5 | $d_1 + 2$                                          | $d_1 + 12$ | $9 \pm 0,8$    |
| VS 25                | 24 – 27                      | 22                                                         | 4 | 7,9  | 10,5 | $d_1 + 2$                                          | $d_1 + 12$ | $9 \pm 0,8$    |
| VS 28                | 27 – 29                      | 25                                                         | 4 | 7,9  | 10,5 | $d_1 + 3$                                          | $d_1 + 12$ | $9 \pm 0,8$    |
| VS 30                | 29 – 31                      | 27                                                         | 4 | 7,9  | 10,5 | $d_1 + 3$                                          | $d_1 + 12$ | $9 \pm 0,8$    |
| VS 32                | 31 – 33                      | 29                                                         | 4 | 7,9  | 10,5 | $d_1 + 3$                                          | $d_1 + 12$ | $9 \pm 0,8$    |
| VS 35                | 33 – 36                      | 31                                                         | 4 | 7,9  | 10,5 | $d_1 + 3$                                          | $d_1 + 12$ | $9 \pm 0,8$    |
| VS 38                | 36 – 38                      | 34                                                         | 4 | 7,9  | 10,5 | $d_1 + 3$                                          | $d_1 + 12$ | $9 \pm 0,8$    |
| VS 40                | 38 – 43                      | 36                                                         | 5 | 9,5  | 13   | $d_1 + 3$                                          | $d_1 + 15$ | $11 \pm 1$     |
| VS 45                | 43 – 48                      | 40                                                         | 5 | 9,5  | 13   | $d_1 + 3$                                          | $d_1 + 15$ | $11 \pm 1$     |
| VS 50                | 48 – 53                      | 45                                                         | 5 | 9,5  | 13   | $d_1 + 3$                                          | $d_1 + 15$ | $11 \pm 1$     |
| VS 55                | 53 – 58                      | 49                                                         | 5 | 9,5  | 13   | $d_1 + 3$                                          | $d_1 + 15$ | $11 \pm 1$     |
| VS 60                | 58 – 63                      | 54                                                         | 5 | 9,5  | 13   | $d_1 + 3$                                          | $d_1 + 15$ | $11 \pm 1$     |
| VS 65                | 63 – 68                      | 58                                                         | 5 | 9,5  | 13   | $d_1 + 3$                                          | $d_1 + 15$ | $11 \pm 1$     |
| VS 70                | 68 – 73                      | 63                                                         | 6 | 11,3 | 15,5 | $d_1 + 4$                                          | $d_1 + 18$ | $13,5 \pm 1,2$ |
| VS 75                | 73 – 78                      | 67                                                         | 6 | 11,3 | 15,5 | $d_1 + 4$                                          | $d_1 + 18$ | $13,5 \pm 1,2$ |
| VS 80                | 78 – 83                      | 72                                                         | 6 | 11,3 | 15,5 | $d_1 + 4$                                          | $d_1 + 18$ | $13,5 \pm 1,2$ |
| VS 85                | 83 – 88                      | 76                                                         | 6 | 11,3 | 15,5 | $d_1 + 4$                                          | $d_1 + 18$ | $13,5 \pm 1,2$ |
| VS 90                | 88 – 93                      | 81                                                         | 6 | 11,3 | 15,5 | $d_1 + 4$                                          | $d_1 + 18$ | $13,5 \pm 1,2$ |
| VS 95                | 93 – 98                      | 85                                                         | 6 | 11,3 | 15,5 | $d_1 + 4$                                          | $d_1 + 18$ | $13,5 \pm 1,2$ |
| VS 100               | 98 – 105                     | 90                                                         | 6 | 11,3 | 15,5 | $d_1 + 4$                                          | $d_1 + 18$ | $13,5 \pm 1,2$ |
| VS 110               | 105 – 115                    | 99                                                         | 7 | 13,1 | 18   | $d_1 + 4$                                          | $d_1 + 21$ | $15,5 \pm 1,5$ |
| VS 120               | 115 – 125                    | 108                                                        | 7 | 13,1 | 18   | $d_1 + 4$                                          | $d_1 + 21$ | $15,5 \pm 1,5$ |
| VS 130               | 125 – 135                    | 117                                                        | 7 | 13,1 | 18   | $d_1 + 4$                                          | $d_1 + 21$ | $15,5 \pm 1,5$ |
| VS 140               | 135 – 145                    | 126                                                        | 7 | 13,1 | 18   | $d_1 + 4$                                          | $d_1 + 21$ | $15,5 \pm 1,5$ |
| VS 150               | 145 – 155                    | 135                                                        | 7 | 13,1 | 18   | $d_1 + 4$                                          | $d_1 + 21$ | $15,5 \pm 1,5$ |
| VS 160               | 155 – 165                    | 144                                                        | 8 | 15   | 20,5 | $d_1 + 5$                                          | $d_1 + 24$ | $18 \pm 1,8$   |
| VS 170               | 165 – 175                    | 153                                                        | 8 | 15   | 20,5 | $d_1 + 5$                                          | $d_1 + 24$ | $18 \pm 1,8$   |
| VS 180               | 175 – 185                    | 162                                                        | 8 | 15   | 20,5 | $d_1 + 5$                                          | $d_1 + 24$ | $18 \pm 1,8$   |
| VS 190               | 185 – 195                    | 171                                                        | 8 | 15   | 20,5 | $d_1 + 5$                                          | $d_1 + 24$ | $18 \pm 1,8$   |
| VS 199               | 195 – 210                    | 180                                                        | 8 | 15   | 20,5 | $d_1 + 5$                                          | $d_1 + 24$ | $18 \pm 1,8$   |



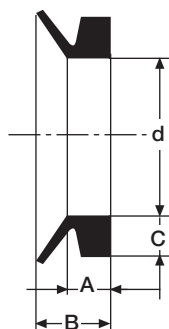
Dimensioni anello libero  
Free seal dimensions



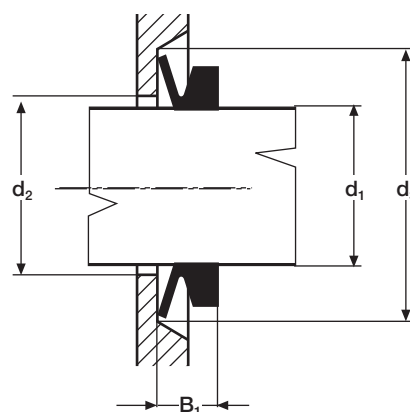
Quote di montaggio  
Fitting dimensions

| Sigla<br>Designation | Ø albero<br>Ø shaft<br>$d_1$ | Dimensioni anello libero (mm)<br>Free seal dimensions (mm) |     |     |      | Quote di montaggio (mm)<br>Fitting dimensions (mm) |            |                |
|----------------------|------------------------------|------------------------------------------------------------|-----|-----|------|----------------------------------------------------|------------|----------------|
|                      |                              | d                                                          | C   | A   | B    | $d_2$                                              | $d_3$      | $B_1$          |
| VA 3                 | 2,7 – 3,5                    | 2,5                                                        | 1,5 | 2,1 | 3    | $d_1 + 1$                                          | $d_1 + 4$  | $2,5 \pm 0,3$  |
| VA 4                 | 3,5 – 4,5                    | 3,2                                                        | 2   | 2,4 | 3,7  | $d_1 + 1$                                          | $d_1 + 6$  | $3 \pm 0,4$    |
| VA 5                 | 4,5 – 5,5                    | 4                                                          | 2   | 2,4 | 3,7  | $d_1 + 1$                                          | $d_1 + 6$  | $3 \pm 0,4$    |
| VA 6                 | 5,5 – 6,5                    | 5                                                          | 2   | 2,4 | 3,7  | $d_1 + 1$                                          | $d_1 + 6$  | $3 \pm 0,4$    |
| VA 7 *               | 6,5 – 8                      | 6                                                          | 2   | 2,4 | 3,7  | $d_1 + 1$                                          | $d_1 + 6$  | $3 \pm 0,4$    |
| VA 8                 | 8 – 9,5                      | 7                                                          | 2   | 2,4 | 3,7  | $d_1 + 1$                                          | $d_1 + 6$  | $3 \pm 0,4$    |
| VA 10                | 9,5 – 11,5                   | 9                                                          | 3   | 3,4 | 5,5  | $d_1 + 2$                                          | $d_1 + 9$  | $4,5 \pm 0,6$  |
| VA 12                | 11,5 – 13,5                  | 10,5                                                       | 3   | 3,4 | 5,5  | $d_1 + 2$                                          | $d_1 + 9$  | $4,5 \pm 0,6$  |
| VA 14                | 13,5 – 15,5                  | 12,5                                                       | 3   | 3,4 | 5,5  | $d_1 + 2$                                          | $d_1 + 9$  | $4,5 \pm 0,6$  |
| VA 16                | 15,5 – 17,5                  | 14                                                         | 3   | 3,4 | 5,5  | $d_1 + 2$                                          | $d_1 + 9$  | $4,5 \pm 0,6$  |
| VA 18                | 17,5 – 19                    | 16                                                         | 3   | 3,4 | 5,5  | $d_1 + 2$                                          | $d_1 + 9$  | $4,5 \pm 0,6$  |
| VA 20                | 19 – 21                      | 18                                                         | 4   | 4,7 | 7,5  | $d_1 + 2$                                          | $d_1 + 12$ | $6 \pm 0,8$    |
| VA 22                | 21 – 24                      | 20                                                         | 4   | 4,7 | 7,5  | $d_1 + 2$                                          | $d_1 + 12$ | $6 \pm 0,8$    |
| VA 25                | 24 – 27                      | 22                                                         | 4   | 4,7 | 7,5  | $d_1 + 2$                                          | $d_1 + 12$ | $6 \pm 0,8$    |
| VA 28                | 27 – 29                      | 25                                                         | 4   | 4,7 | 7,5  | $d_1 + 3$                                          | $d_1 + 12$ | $6 \pm 0,8$    |
| VA 30                | 29 – 31                      | 27                                                         | 4   | 4,7 | 7,5  | $d_1 + 3$                                          | $d_1 + 12$ | $6 \pm 0,8$    |
| VA 32                | 31 – 33                      | 29                                                         | 4   | 4,7 | 7,5  | $d_1 + 3$                                          | $d_1 + 12$ | $6 \pm 0,8$    |
| VA 35                | 33 – 36                      | 31                                                         | 4   | 4,7 | 7,5  | $d_1 + 3$                                          | $d_1 + 12$ | $6 \pm 0,8$    |
| VA 38                | 36 – 38                      | 34                                                         | 4   | 4,7 | 7,5  | $d_1 + 3$                                          | $d_1 + 12$ | $6 \pm 0,8$    |
| VA 40                | 38 – 43                      | 36                                                         | 5   | 5,5 | 9    | $d_1 + 3$                                          | $d_1 + 15$ | $7 \pm 1$      |
| VA 45                | 43 – 48                      | 40                                                         | 5   | 5,5 | 9    | $d_1 + 3$                                          | $d_1 + 15$ | $7 \pm 1$      |
| VA 50                | 48 – 53                      | 45                                                         | 5   | 5,5 | 9    | $d_1 + 3$                                          | $d_1 + 15$ | $7 \pm 1$      |
| VA 55                | 53 – 58                      | 49                                                         | 5   | 5,5 | 9    | $d_1 + 3$                                          | $d_1 + 15$ | $7 \pm 1$      |
| VA 60                | 58 – 63                      | 54                                                         | 5   | 5,5 | 9    | $d_1 + 3$                                          | $d_1 + 15$ | $7 \pm 1$      |
| VA 65                | 63 – 68                      | 58                                                         | 5   | 5,5 | 9    | $d_1 + 3$                                          | $d_1 + 15$ | $7 \pm 1$      |
| VA 70                | 68 – 73                      | 63                                                         | 6   | 6,8 | 11   | $d_1 + 4$                                          | $d_1 + 18$ | $9 \pm 1,2$    |
| VA 75                | 73 – 78                      | 67                                                         | 6   | 6,8 | 11   | $d_1 + 4$                                          | $d_1 + 18$ | $9 \pm 1,2$    |
| VA 80                | 78 – 83                      | 72                                                         | 6   | 6,8 | 11   | $d_1 + 4$                                          | $d_1 + 18$ | $9 \pm 1,2$    |
| VA 85                | 83 – 88                      | 76                                                         | 6   | 6,8 | 11   | $d_1 + 4$                                          | $d_1 + 18$ | $9 \pm 1,2$    |
| VA 90                | 88 – 93                      | 81                                                         | 6   | 6,8 | 11   | $d_1 + 4$                                          | $d_1 + 18$ | $9 \pm 1,2$    |
| VA 95                | 93 – 98                      | 85                                                         | 6   | 6,8 | 11   | $d_1 + 4$                                          | $d_1 + 18$ | $9 \pm 1,2$    |
| VA 100               | 98 – 105                     | 90                                                         | 6   | 6,8 | 11   | $d_1 + 4$                                          | $d_1 + 18$ | $9 \pm 1,2$    |
| VA 110               | 105 – 115                    | 99                                                         | 7   | 7,9 | 12,8 | $d_1 + 4$                                          | $d_1 + 21$ | $10,5 \pm 1,5$ |
| VA 120               | 115 – 125                    | 108                                                        | 7   | 7,9 | 12,8 | $d_1 + 4$                                          | $d_1 + 21$ | $10,5 \pm 1,5$ |
| VA 130               | 125 – 135                    | 117                                                        | 7   | 7,9 | 12,8 | $d_1 + 4$                                          | $d_1 + 21$ | $10,5 \pm 1,5$ |
| VA 140               | 135 – 145                    | 126                                                        | 7   | 7,9 | 12,8 | $d_1 + 4$                                          | $d_1 + 21$ | $10,5 \pm 1,5$ |
| VA 150               | 145 – 155                    | 135                                                        | 7   | 7,9 | 12,8 | $d_1 + 4$                                          | $d_1 + 21$ | $10,5 \pm 1,5$ |
| VA 160               | 155 – 165                    | 144                                                        | 8   | 9   | 14,5 | $d_1 + 5$                                          | $d_1 + 24$ | $12 \pm 1,8$   |
| VA 170               | 165 – 175                    | 153                                                        | 8   | 9   | 14,5 | $d_1 + 5$                                          | $d_1 + 24$ | $12 \pm 1,8$   |
| VA 180               | 175 – 185                    | 162                                                        | 8   | 9   | 14,5 | $d_1 + 5$                                          | $d_1 + 24$ | $12 \pm 1,8$   |
| VA 190               | 185 – 195                    | 171                                                        | 8   | 9   | 14,5 | $d_1 + 5$                                          | $d_1 + 24$ | $12 \pm 1,8$   |
| VA 199               | 195 – 210                    | 180                                                        | 8   | 9   | 14,5 | $d_1 + 5$                                          | $d_1 + 24$ | $12 \pm 1,8$   |

\* Disponibile su richiesta  
Available on request



Dimensioni anello libero  
Free seal dimensions

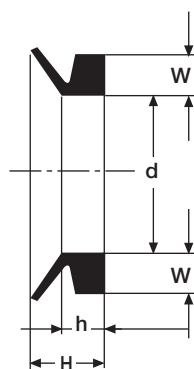


Quote di montaggio  
Fitting dimensions

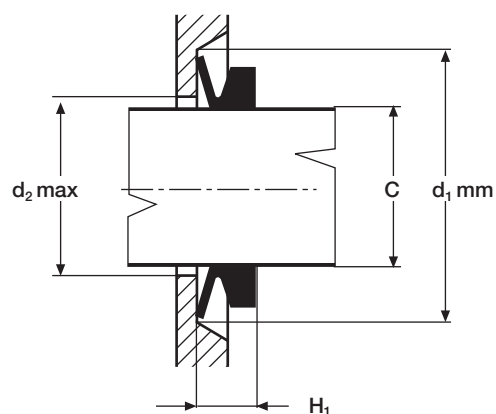
| Sigla<br>Designation | Ø albero<br>Ø shaft<br>$d_1$ | Dimensioni anello libero (mm)<br>Free seal dimensions (mm) |    |      |    | Quote di montaggio (mm)<br>Fitting dimensions (mm) |            |            |
|----------------------|------------------------------|------------------------------------------------------------|----|------|----|----------------------------------------------------|------------|------------|
|                      |                              | d                                                          | C  | A    | B  | $d_2$                                              | $d_3$      | $B_1$      |
| VA 200               | 190 – 210                    | 180                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 220               | 210 – 235                    | 198                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 250               | 235 – 265                    | 225                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 275               | 265 – 290                    | 247                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 300               | 290 – 310                    | 270                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 325               | 310 – 335                    | 292                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 350               | 335 – 365                    | 315                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 375               | 365 – 390                    | 337                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 400               | 390 – 430                    | 360                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 450 *             | 430 – 480                    | 405                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 500 *             | 480 – 530                    | 450                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 550 *             | 530 – 580                    | 495                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 600 *             | 580 – 630                    | 540                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 650 *             | 630 – 665                    | 600                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 700 *             | 665 – 705                    | 630                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 725 *             | 705 – 745                    | 670                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 750 *             | 745 – 785                    | 705                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 800 *             | 785 – 830                    | 745                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 850 *             | 830 – 875                    | 785                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 900 *             | 875 – 920                    | 825                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 950 *             | 920 – 965                    | 865                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1000 *            | 965 – 1015                   | 910                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1050 *            | 1015 – 1065                  | 955                                                        | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1100 *            | 1065 – 1115                  | 1000                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1150 *            | 1115 – 1165                  | 1045                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1200 *            | 1165 – 1215                  | 1090                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1250 *            | 1215 – 1270                  | 1135                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1300 *            | 1270 – 1320                  | 1180                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1350 *            | 1320 – 1370                  | 1225                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1400 *            | 1370 – 1420                  | 1270                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1450 *            | 1420 – 1470                  | 1315                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1500 *            | 1470 – 1520                  | 1360                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1550 *            | 1520 – 1570                  | 1405                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1600 *            | 1570 – 1620                  | 1450                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1650 *            | 1620 – 1670                  | 1495                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1700 *            | 1670 – 1720                  | 1540                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1750 *            | 1720 – 1770                  | 1585                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1800 *            | 1770 – 1820                  | 1630                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1850 *            | 1820 – 1870                  | 1675                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1900 *            | 1870 – 1920                  | 1720                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 1950 *            | 1920 – 1970                  | 1765                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |
| VA 2000 *            | 1970 – 2020                  | 1810                                                       | 15 | 14,3 | 25 | $d_1 + 10$                                         | $d_1 + 45$ | $20 \pm 4$ |

\* Disponibile su richiesta  
Available on request





**Dimensioni anello libero**  
*Free seal dimensions*



**Quote di montaggio**  
*Fitting dimensions*

| Sigla<br>Designation | Dimensioni - Dimensions (mm) |     |     |   |      |                |                |                |
|----------------------|------------------------------|-----|-----|---|------|----------------|----------------|----------------|
|                      | C                            | D   | W   | h | H    | d <sub>2</sub> | d <sub>1</sub> | H <sub>1</sub> |
| VL 130               | 125 - 135                    | 117 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 140               | 135 - 145                    | 126 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 150               | 145 - 155                    | 135 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 160               | 155 - 165                    | 144 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 170               | 165 - 175                    | 153 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 180               | 175 - 185                    | 162 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 190               | 185 - 195                    | 171 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 200               | 195 - 210                    | 182 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 220               | 210 - 233                    | 198 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 250               | 233 - 260                    | 225 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 275               | 260 - 285                    | 247 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 300               | 285 - 310                    | 270 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 325               | 310 - 335                    | 292 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 350               | 325 - 365                    | 315 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 375               | 365 - 385                    | 337 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 400               | 385 - 410                    | 360 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 425 *             | 410 - 440                    | 382 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 450 *             | 440 - 475                    | 405 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 500 *             | 475 - 510                    | 450 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 525 *             | 510 - 540                    | 472 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 550 *             | 540 - 575                    | 495 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |
| VL 600 *             | 575 - 625                    | 540 | 6.5 | 6 | 10.5 | C + 5          | C + 20         | 8 ± 1.5        |

\* Disponibile su richiesta  
Available on request

**Pistoni pneumatici completi  
con canali di ventilazione**  
*Complete pneumatic piston  
with ventilation grooves*



**Tabelle dimensionali**  
*Dimensional tables*

### Caratteristiche tecniche

Pistone monoblocco composto da una parte interna di metallo e da un rivestimento in gomma vulcanizzata a totale copertura. Particolare di forma simmetrica e con speciali scanalature che consentono l'uniforme distribuzione della pressione su tutta la superficie.

Il profilo dei labbri consente un funzionamento con attrito molto contenuto sia con aria sia con aria lubrificata.

### ISTRUZIONI DI MONTAGGIO

Il pistone monoblocco viene montato sullo stelo ed il dado di bloccaggio viene avvitato sull'estremità filettata. Assicurarsi che il bloccaggio sia effettuato perfettamente per evitare un funzionamento difettoso.

Se il cilindro pneumatico ed il pistone completo vengono adeguatamente lubrificati con grasso in fase di montaggio, si rende possibile il funzionamento con aria secca e senz'olio.

### Technical characteristics

Complete pneumatic piston consists, in an inside metal part fully covered with bonded rubber with a particular symmetric shape and with special grooves which allow a regular pressure distribution all over the surface.

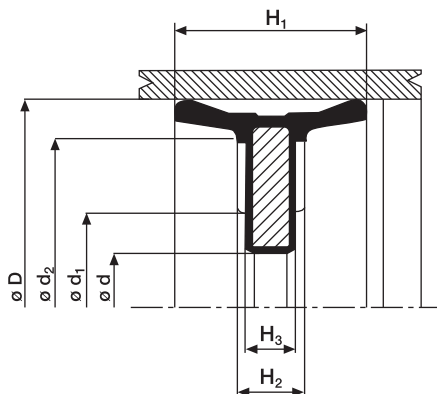
The lips profile gives a very low friction and can work with air and lubricated air.

### FITTING OPERATIONS

The complete pneumatic piston must be fitted on the rod and the lock nut fixed on the screw.

Lease be sure of this operation in order to avoid any inconvenience in functioning.

If both cylinder and piston are well lubricated with grease it will work in dry air without oil.



| Codice<br>Code | Dimensioni - Dimensions (mm) |    |                |                |                |                |                |
|----------------|------------------------------|----|----------------|----------------|----------------|----------------|----------------|
|                | D                            | d  | d <sub>1</sub> | d <sub>2</sub> | H <sub>1</sub> | H <sub>2</sub> | H <sub>3</sub> |
| PKC 25x 8      | 25                           | 8  | 15,5           | 20             | 12             | 6              | 4              |
| PKC 32x 8      | 32                           | 8  | 14             | 24,5           | 15             | 6              | 4              |
| PKC 40x10      | 40                           | 10 | 20             | 32             | 18             | 7              | 5              |
| PKC 50x10      | 50                           | 10 | 20             | 42             | 18             | 7              | 5              |
| PKC 54x30      | 54                           | 30 | 40,5           | 46             | 18             | 6              | 4              |
| PKC 60x12      | 60                           | 12 | 39             | 51             | 22             | 9              | 5              |
| PKC 63x16      | 63                           | 16 | 43             | 54             | 22             | 9              | 6              |
| PKC 63x14      | 63                           | 14 | 32             | 54             | 22             | 9              | 6              |
| PKC 70x12      | 70                           | 12 | 49             | 60             | 25             | 9              | 6              |
| PKC 75x12      | 75                           | 12 | 55             | 61             | 25             | 9              | 6              |

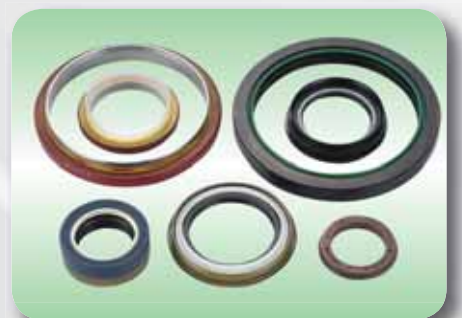
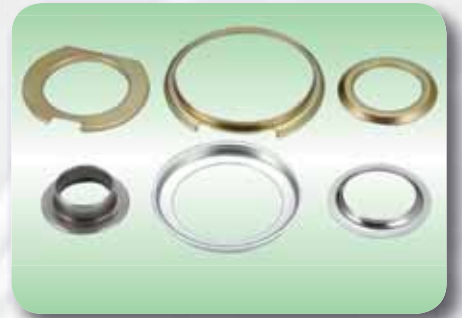
| Codice<br>Code | Dimensioni - Dimensions (mm) |    |                |                |                |                |                |
|----------------|------------------------------|----|----------------|----------------|----------------|----------------|----------------|
|                | D                            | d  | d <sub>1</sub> | d <sub>2</sub> | H <sub>1</sub> | H <sub>2</sub> | H <sub>3</sub> |
| PKC 80x14      | 80                           | 14 | 32             | 70             | 25             | 9              | 6              |
| PKC 80x16      | 80                           | 16 | 55             | 70             | 23             | 9              | 6              |
| PKC 85x12      | 85                           | 12 | 60             | 75             | 25             | 12             | 7              |
| PKC 90x12      | 90                           | 12 | 64             | 82             | 24             | 10             | 7              |
| PKC 95x12      | 95                           | 12 | 69             | 87             | 25             | 10             | 7              |
| PKC 100x18     | 100                          | 18 | 45             | 90             | 25             | 12             | 9              |
| PKC 100x20     | 100                          | 20 | 45             | 90             | 25             | 12             | 9              |
| PKC 125x18     | 125                          | 18 | 45             | 114            | 30             | 12             | 9              |
| PKC 160x24     | 160                          | 24 | 55             | 149            | 30             | 14             | 11             |
| PKC 200x24     | 200                          | 24 | 55             | 190            | 30             | 14             | 11             |



# Scheda dati applicativi

## Seal design consideration

|                                                                                                                                                                                                                                                               |                                                                                                                         |                                                                                                                                                                                                                                                               |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Data / Date: _____                                                                                                                                                                                                                                            |                                                                                                                         |                                                                                                                                                                                                                                                               |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |                                                                                                    |
| <b>Cliente / Customer :</b>                                                                                                                                                                                                                                   |                                                                                                                         | P/N :                                                                                                                                                                                                                                                         |                                                                                                                                                                                        | Applicazione: <input type="checkbox"/> Macchina <input type="checkbox"/> Motore di Automobile <input type="checkbox"/> Assale Ruota<br>Application: <input type="checkbox"/> Machine <input type="checkbox"/> Car Engine <input type="checkbox"/> Wheel Axle<br><input type="checkbox"/> Trasmissione <input type="checkbox"/> Agricola <input type="checkbox"/> Marina<br><input type="checkbox"/> Transmission <input type="checkbox"/> Agriculture <input type="checkbox"/> Marine<br><input type="checkbox"/> Altro:<br><input type="checkbox"/> Other: |                                                                                                                         |                                                                                                    |
|                                                                                                                                                                                                                                                               |                                                                                                                         | TTO NO.                                                                                                                                                                                                                                                       |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |                                                                                                    |
| <input type="checkbox"/> Disegno <input type="checkbox"/> Solo per Duplicato<br><input type="checkbox"/> Drawing <input type="checkbox"/> For Duplicated Only<br><input type="checkbox"/> Solo per Riferimento<br><input type="checkbox"/> For Reference Only |                                                                                                                         | <input type="checkbox"/> Campione <input type="checkbox"/> Solo per Duplicato<br><input type="checkbox"/> Sample <input type="checkbox"/> For Duplicated Only<br><input type="checkbox"/> Solo per Riferimento<br><input type="checkbox"/> For Reference Only |                                                                                                                                                                                        | <input type="checkbox"/> Specifiche Materiale:<br><input type="checkbox"/> Material Specification:<br><input type="checkbox"/> Dettagli Legali/Speciali:<br><input type="checkbox"/> Legislation / Special Particularity:                                                                                                                                                                                                                                                                                                                                   |                                                                                                                         |                                                                                                    |
| <b>Tipo / Type :</b>                                                                                                                                                                                                                                          |                                                                                                                         | <b>Misura / Size :</b>                                                                                                                                                                                                                                        |                                                                                                                                                                                        | <b>Materiale :<br/>Material :</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                         |                                                                                                    |
| Quantità annuale :<br>Annual QTY :                                                                                                                                                                                                                            |                                                                                                                         | Capacità mensile :<br>Monthly Capacity :                                                                                                                                                                                                                      |                                                                                                                                                                                        | Durata :<br>Durability (Life) :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         | Obiettivo di qualità :<br>Quality Goal :                                                           |
| <b>Albero<br/>Shaft</b>                                                                                                                                                                                                                                       | Diametro :<br>Diameter :                                                                                                | Materiale :<br>Material :                                                                                                                                                                                                                                     | Rugosità :<br>Finish :                                                                                                                                                                 | Durezza :<br>Hardness :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Smusso :<br>Chamfer :                                                                                                   | <input type="checkbox"/> Orizzontale / Horizontal<br><input type="checkbox"/> Verticale / Vertical |
|                                                                                                                                                                                                                                                               | <input type="checkbox"/> Rotazione<br>Rotation                                                                          | <input type="checkbox"/> Senso orario<br>Clock Wise<br><input type="checkbox"/> Senso antiorario<br>Counter Clock Wise<br><input type="checkbox"/> Bidirezionale<br>Bi - Directional                                                                          |                                                                                                                                                                                        | Normale / Normal :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                         | Eccentricità :<br>Shaft Runout :                                                                   |
|                                                                                                                                                                                                                                                               |                                                                                                                         |                                                                                                                                                                                                                                                               |                                                                                                                                                                                        | Giri al minuto / RPM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                         | TIR                                                                                                |
|                                                                                                                                                                                                                                                               |                                                                                                                         |                                                                                                                                                                                                                                                               | Max :                                                                                                                                                                                  | Disallineamento albero/alloggiamento:<br>Misalignment :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                         | m/m                                                                                                |
|                                                                                                                                                                                                                                                               |                                                                                                                         |                                                                                                                                                                                                                                                               | Giri al minuto / RPM                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |                                                                                                    |
|                                                                                                                                                                                                                                                               | <input type="checkbox"/> Moto alternativo<br>Reciprocation<br><input type="checkbox"/> Moto oscillatorio<br>Oscillation | Corsa :<br>Stroke Length :                                                                                                                                                                                                                                    |                                                                                                                                                                                        | Velocità :<br>Speed :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         | Cicli/min:<br>Cycle/min:                                                                           |
|                                                                                                                                                                                                                                                               |                                                                                                                         | Rotazione in gradi :<br>Degree of Arc :                                                                                                                                                                                                                       |                                                                                                                                                                                        | Velocità :<br>Speed :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                         | Cicli/min:<br>Cycle/min:                                                                           |
| <b>Foro<br/>Bore</b>                                                                                                                                                                                                                                          | Diametro :<br>Diameter :                                                                                                | Materiale :<br>Material :                                                                                                                                                                                                                                     | Rugosità :<br>Finish :                                                                                                                                                                 | Spessore :<br>Depth :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Installazione / Installation :<br> |                                                                                                    |
| <b>Ambiente<br/>Medium</b>                                                                                                                                                                                                                                    | <b>Interno / Internal :</b>                                                                                             |                                                                                                                                                                                                                                                               | <b>Esterno / External :</b>                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Temperatura:</b><br><b>Temperature:</b><br><input type="checkbox"/> °C / <input type="checkbox"/> °F                 |                                                                                                    |
|                                                                                                                                                                                                                                                               | <input type="checkbox"/> Secco <input type="checkbox"/> Umido <input type="checkbox"/> Immerso<br>Dry Mist Flooded      |                                                                                                                                                                                                                                                               | <input type="checkbox"/> Aria <input type="checkbox"/> Polvere leggera<br>Air Slight Dust<br><input type="checkbox"/> Fango <input type="checkbox"/> Polvere pesante<br>Mud Heavy Dust |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Min : _____<br>Normal : _____<br>Max: _____                                                                             |                                                                                                    |
|                                                                                                                                                                                                                                                               |                                                                                                                         |                                                                                                                                                                                                                                                               |                                                                                                                                                                                        | <input type="checkbox"/> Psi <input type="checkbox"/> Bar<br>Normal : _____<br>Max: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                         |                                                                                                    |
| <b>Note</b>                                                                                                                                                                                                                                                   |                                                                                                                         |                                                                                                                                                                                                                                                               |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                         |                                                                                                    |





©Copyright 

È vietata la riproduzione anche parziale del contenuto di questo Catalogo Tecnico. Non si possono accettare responsabilità per eventuali errori od omissioni. Le misure non sono impegnative.

*The reproduction, even partial, of the contained concerning this Technical Catalogue, is forbidden. Liability for possible errors and/or omissions are not accepted. Sizes are not binding.*





**ANELLI DI TENUTA**  
***SHAFT SEALS***

1.07.13 ©Copyright



79800001