



Please press content button for details linking.

Contents

| | |
|---|-----|
| Working Pressure/Deformation Chart | 004 |
| Hardness/Working Pressure Chart | 005 |
| O-Ring Fitting Dimension Chart(Static) | 006 |
| O-Ring Fitting Dimension Chart(Dynamic) | 007 |
| Material Selection Chart | 008 |
| Ekraz FFKM /Perfluoroelastomer | 010 |
| O-Ring | 012 |
| X-Ring | 014 |
| Hollow Rubber O-Ring | 016 |
| FEP Encapsulated O-Ring | 018 |
| Rubber Washer | 020 |
| Rubber Back-up ring | 022 |
| O-Ring AS568 | 024 |
| O-Ring Size List | 050 |
| Watch Gasket | 070 |
| Rubber Cord | 071 |

ESCORT SEAL

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| | |
|-----------------------------|-----|
| Repair KIT | 072 |
| PTFE Back-up Ring | 078 |
| Rubber Ball | 084 |
| V-Ring | 086 |
| V-A Ring | 087 |
| V-S Ring | 090 |
| V-AX Ring | 092 |
| V-L/LX Ring | 093 |
| ED Ring | 095 |
| Bonded Seal | 096 |
| Oil Seal | 100 |
| Oil Seal(SC) | 102 |
| Oil Seal(TC) | 104 |
| PU Seal | 114 |
| Rubber U-Seals | 122 |
| Special Forming Parts | 130 |



Escort Seal (ShangHai) Co.,Ltd.

<http://www.escort.com.cn>

No.205 jiangtian RD.,(E.)Songjiang,Shanghai,China 201613

Tel: 8008208616/(021)57747878

Fax:86-21-57747979 Mb:13386292526

E-mail:sales@seal.com.tw

Escort Seal Co.,Ltd.

<http://www.seal.com.tw>

Address: 2F., No.151, Xinhu 1st Rd., Neihu Dist.,

Taipei City 114, Taiwan

Tel: 886-2-87929000

Fax:886-2-87919000

E-mail : atp@seal.com.tw

Escort Seal (U.S.A.) Co.,Ltd.

<http://www.escortseal.com.tw>

1936 Cedar Street,Ontario,

CA 91761, U.S.A.

Tel: (909)923-3030 1-888-905-6888

Fax:(909)923-7224 1-888-905-7888

E-mail:usa@seal.com.tw



Hong Kong Office

12F, Workington Tower, 78 Bonham

Strand East, Hong Kong,China

Tel:30198165

Fax:852-30198172

E-mail:hk@seal.com.tw

Shenzhen Office

Room 1802, No.1072, East Square, Jianshe Rd.

Shenzhen City,GuangDong 518001

Tel:(0755)82282808/82252998

Fax:86-755-82282526

E-mail:csz@seal.com.tw

Guangzhou Office

Room F,10F, Tianxing Building(East Tower),

Zhongshan 1 Rd. Guangzhou City GuangDong,China

Tel:(020)37584327/37584386

Fax:86-20-37584325

E-mail:gkc@seal.com.tw

Jinan Office

Room 308,57 Shan Da Rd.,Jinan

Shangdong, China 250013

Tel:(0531)88021847/88022724

Fax:86-531-88022724

E-mail:njn@seal.com.tw

Tianjin Office

Room 312, No.8 Chiu-Jin Rd., Ho-Tung Area,

TianJin City,China 300171

Tel:(022)24212114

Fax:86-22-24306891

E-mail:jtj@seal.com.tw

Shengyang Office

Room 1419 14F Shenyang Information

Building No.55 Sanhao Street Heping

District ,Shenyang,China 110004

Tel:(024)23988486

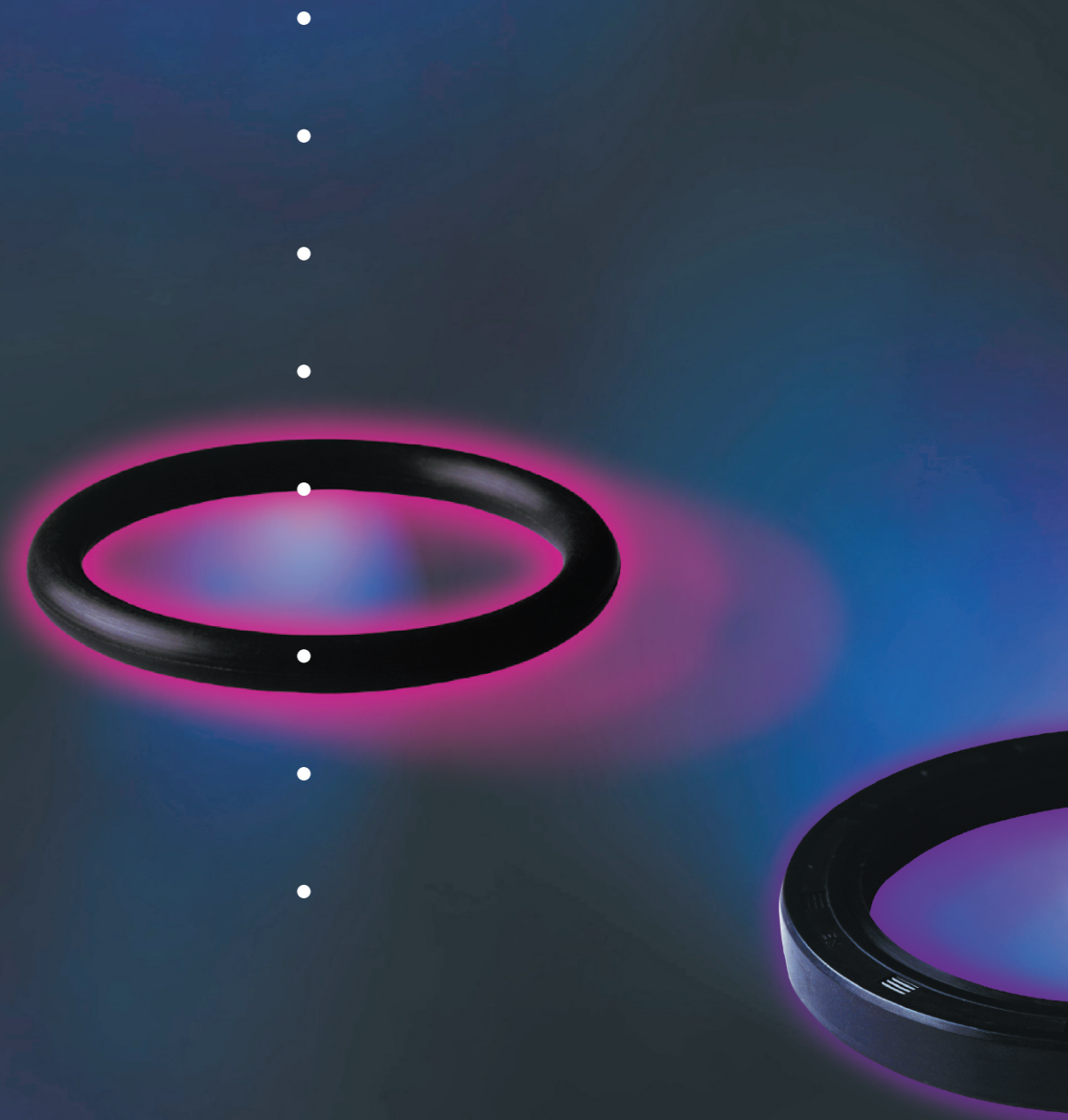
Fax:86-24-23988489

E-mail:fsy@seal.com.tw



Escort Seal

ISO/TS 16949:2009



Buyer's Guide



First class equipments, First-class Facilities



Escort Seal Events

1983-1988 Company headquarter founded in Taiwan
1989-1992 Taiwan Factory moved to Shenzhen, China
1993-1996 Set up Sales offices
1997-1998 Internet Quotation system & Computerized management

1999-2001 Sep up USA sales office & Warehouse
2002-2003 ShenZhen factory moved to ShangHai,China
2003-2005 Implemented ERP total electronic management
2006-2007 ShangHai factory second stage construction finished
2007~~ To begin third stage of Shanghai factory's construction



- EKraz:Ssemiconductor industry seal&O-Ring
- No tooling charge for O-Ring, No minimum quantities for international standard products
- 24 HOURS in SERVICE
- Online Automatic Quotation and Order Tracking
- R&D Inspection Laboratories
- Computerized Storage Warehouse
- UPS Sea & Air Express service for USA market

Certification:



1. ISO / TS16949:2009
2. NBR50, NBR70, EP70, are Certified to NSF61 Drinking Water System Components – Health Effects
3. All products are free of Lead, Chromium, Nickel, Mercury, PBB, PBDE (PBDE) .Seal MATERIALS MEET RoHS regulation. Tested by SGS. Report NO. :CE / 2007 / 31011
4. NBR 70 is certified for UL94. UL file no: E254622
5. SIL 70 is certified for WRAS/WRC-NSF BS6920- Test of Effect on Water Quality.

QC Standard

China QC Standard

1. IQC: ASTM D2000 or HG/T 2579-2008;
2. Dimension: GB/T 3452.1-2005;
3. Surface: GB/T 3452.2-2007 or RMA;
4. Sampling Inspection: GB/T 2828.1-2003;
5. IQC in Oil Seal components: HG/T 2811-1996(2004);
6. Dimension for Oil Seal: GB/T 9877-2008 & GB/T 13871.1-2007;
7. Surface for Oil Seal: GB/T 15326-94



The Manufacturer of Sealing Parts

For over 20 years, Escort Seal's spirit embraced innovation, creation, quality, and advancement toward excellence. Since 1983, we have expanded our product line, from simple products, to uniquely customized rubber-plastic and metal-bonded O-Ring products. Our mission is to provide high quality products for our customers' applications.

With a wide range of products, we continuously improve our Manufacturing Operations with e-Manufacturing Logistic Warehouse Management, a fully computer-controlled Warehouse. We continuously improve our Quality Control with Investments into material research and development. We continuously produce a variety of quality products for every application.

Our most innovative time-saver is the online Automatic Quotation System (AQS). In seconds, customers can easily quote prices, order products, and track shipments, Anytime and anywhere online.

Escort Seal is the leader in sealing parts technology and we ship products worldwide. Our goal is to bring a conventional industry into the New Age with our technology, quality, efficiency and customer service.

USA Toll Free Tel: (888)905-6888 Toll Free Fax: 1-888-905-7888

TaiWan
Tel: (02)8792-9000
Fax: (02)87919000

ShangHai
Tel: (021)57747878
Fax: (021)57747979

U S A
Tel: (888)905-6888
Fax: (888)905-7888

Shenzhen City GuangDong
Tel: (0755)8225-2998 Fax: (0755)8228-2526

Guangzhou City GuangDong
Tel: (020)3758-4327 Fax: (020)3758-4325

Jinan City ShanDong
Tel: (0531)8802-1847 Fax: (0531)8802-2724

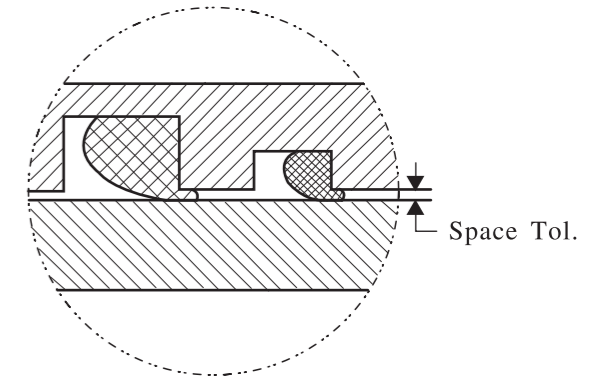
TianJin
Tel: (022)2421-2114 Fax: (022)2430-6891

Shengyang City LiaoNing
Tel: (024)2398-8486 Fax: (024)2398-8489

Consulting hot line:



| HARDNESS (SHORE A) | WORKING FIELD |
|--------------------|---------------------------------|
| 40+/-5 | Need Sensitive Sealing Products |
| 50+/-5 | |
| 60+/-5 | |
| 70+/-5 | Generally Sealing Products |
| 80+/-5 | High Pressure Sealing Products |
| 90+/-5 | |



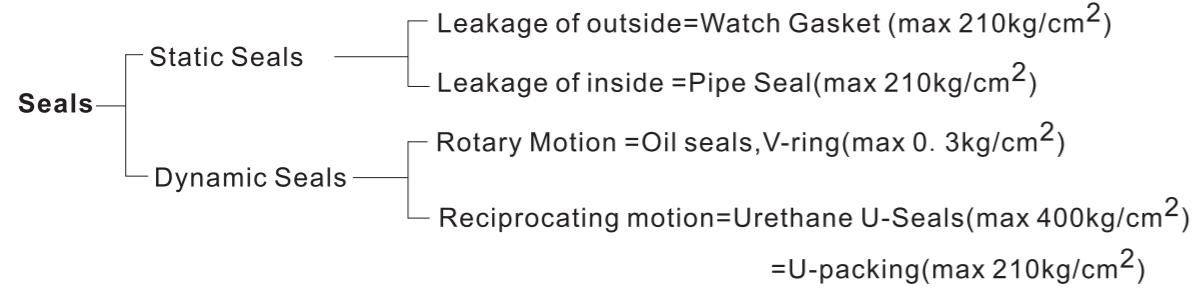
| Without Back up Rings | Working Pressure | With Back up Rings |
|-----------------------|------------------|--------------------|
| | Zero Pressure | |
| | 500PSI Pressure | |
| | 1000PSI Pressure | |
| | 1500PSI Pressure | |
| | 3000PSI Pressure | |



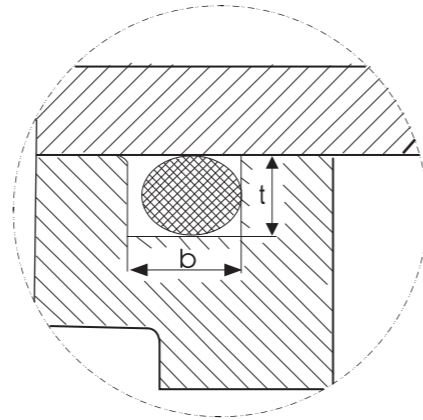
| C/S (mm) | Tol. (mm) | Pressure KG/M ² Hardness Shore A | 35 | 70 | 105 | 140 | 175 | 210 | 350 |
|----------|-----------|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | KG/M ² | KG/M ² | KG/M ² | KG/M ² | KG/M ² | KG/M ² | KG/M ² |
| 1.78 | | 70 | 0.15 | 0.10 | 0.05 | | | | |
| | | 80 | 0.20 | 0.15 | 0.10 | 0.05 | 0.03 | | |
| | | 90 | 0.25 | 0.20 | 0.13 | 0.10 | 0.08 | 0.05 | 0.03 |
| 2.62 | | 70 | 0.18 | 0.13 | 0.08 | | | | |
| | | 80 | 0.25 | 0.18 | 0.13 | 0.08 | 0.04 | | |
| | | 90 | 0.30 | 0.25 | 0.18 | 0.13 | 0.10 | 0.08 | 0.04 |
| 3.53 | | 70 | 0.20 | 0.15 | 0.10 | | | | |
| | | 80 | 0.30 | 0.20 | 0.15 | 0.10 | 0.05 | | |
| | | 90 | 0.40 | 0.30 | 0.20 | 0.15 | 0.13 | 0.10 | 0.05 |
| 5.34 | | 70 | 0.25 | 0.18 | 0.13 | | | | |
| | | 80 | 0.35 | 0.25 | 0.18 | 0.13 | 0.06 | | |
| | | 90 | 0.45 | 0.35 | 0.25 | 0.18 | 0.15 | 0.13 | 0.06 |
| 7.00 | | 70 | 0.30 | 0.20 | 0.15 | | | | |
| | | 80 | 0.40 | 0.30 | 0.20 | 0.15 | 0.07 | | |
| | | 90 | 0.50 | 0.40 | 0.30 | 0.20 | 0.18 | 0.15 | 0.07 |

O-ring Fitting Dimension Chart (Static)

O-ring Fitting Dimension Chart (Dynamic)

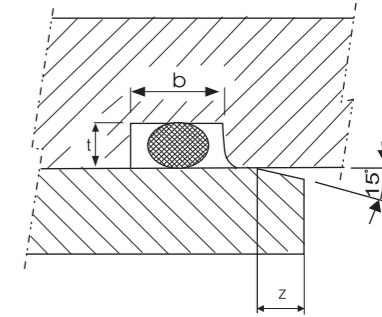


Note: Working Pressure will vary with different working conditions



| c/s | t | b |
|------|------|-----|
| 1.00 | 0.80 | 1.3 |
| 1.50 | 1.10 | 1.9 |
| 1.60 | 1.20 | 2.1 |
| 1.78 | 1.30 | 2.3 |
| 1.90 | 1.40 | 2.4 |
| 2.00 | 1.50 | 2.6 |
| 2.40 | 1.80 | 3.1 |
| 2.50 | 1.90 | 3.2 |
| 2.62 | 2.00 | 3.4 |
| 2.70 | 2.10 | 3.5 |
| 3.00 | 2.30 | 3.9 |
| 3.50 | 2.70 | 4.5 |
| 3.53 | 2.70 | 4.5 |
| 3.60 | 2.80 | 4.7 |
| 4.00 | 3.15 | 5.2 |
| 4.50 | 3.60 | 5.8 |

| c/s | t | b |
|-------|------|------|
| 5.00 | 4.00 | 6.5 |
| 5.33 | 4.30 | 6.9 |
| 5.50 | 4.50 | 7.1 |
| 5.70 | 4.65 | 7.4 |
| 6.00 | 4.95 | 7.8 |
| 6.50 | 5.40 | 8.4 |
| 6.99 | 5.85 | 9.1 |
| 7.00 | 5.85 | 9.1 |
| 7.50 | 6.30 | 9.7 |
| 8.00 | 6.75 | 10.4 |
| 8.40 | 7.15 | 10.9 |
| 8.50 | 7.25 | 11.0 |
| 9.00 | 7.70 | 11.7 |
| 9.50 | 8.20 | 12.3 |
| 10.00 | 8.65 | 13.0 |



Medium =Liquid

| c/s | t | b | z |
|------|------|-----|-----|
| 1.00 | 0.90 | 1.3 | 1.0 |
| 1.50 | 1.30 | 1.9 | 1.0 |
| 1.60 | 1.40 | 2.0 | 1.1 |
| 1.78 | 1.50 | 2.3 | 1.1 |
| 1.90 | 1.60 | 2.4 | 1.2 |
| 2.00 | 1.70 | 2.4 | 1.2 |
| 2.40 | 2.10 | 2.9 | 1.4 |
| 2.50 | 2.20 | 3.0 | 1.4 |
| 2.62 | 2.30 | 3.1 | 1.5 |
| 2.70 | 2.40 | 3.2 | 1.5 |
| 3.00 | 2.60 | 3.6 | 1.6 |
| 3.50 | 3.10 | 4.2 | 1.8 |
| 3.53 | 3.10 | 4.2 | 1.8 |
| 3.60 | 3.20 | 4.3 | 1.8 |
| 4.00 | 3.50 | 4.8 | 2.0 |
| 4.50 | 4.00 | 5.4 | 2.3 |

| c/s | t | b | z |
|-------|------|------|-----|
| 5.00 | 4.45 | 6.0 | 2.5 |
| 5.33 | 4.70 | 6.4 | 2.7 |
| 5.50 | 4.95 | 6.6 | 2.8 |
| 5.70 | 5.10 | 6.9 | 3.0 |
| 6.00 | 5.40 | 7.2 | 3.1 |
| 6.50 | 5.80 | 7.8 | 3.3 |
| 6.99 | 6.30 | 8.4 | 3.6 |
| 7.00 | 6.30 | 8.4 | 3.6 |
| 7.50 | 6.70 | 9.0 | 3.8 |
| 8.00 | 7.20 | 9.6 | 4.0 |
| 8.40 | 7.60 | 10.1 | 4.2 |
| 8.50 | 7.70 | 10.2 | 4.2 |
| 9.00 | 8.20 | 10.8 | 4.3 |
| 9.50 | 8.60 | 11.4 | 4.4 |
| 10.00 | 9.10 | 12.0 | 4.5 |

Medium =Air

| c/s | t | b | z |
|------|------|-----|-----|
| 1.00 | 0.95 | 1.3 | 1.0 |
| 1.50 | 1.35 | 1.9 | 1.0 |
| 1.60 | 1.45 | 2.0 | 1.1 |
| 1.78 | 1.55 | 2.3 | 1.1 |
| 1.90 | 1.75 | 2.4 | 1.2 |
| 2.00 | 1.80 | 2.4 | 1.2 |
| 2.40 | 2.15 | 2.9 | 1.4 |
| 2.50 | 2.25 | 3.0 | 1.4 |
| 2.62 | 2.35 | 3.1 | 1.5 |
| 2.70 | 2.45 | 3.2 | 1.5 |
| 3.00 | 2.75 | 3.6 | 1.6 |
| 3.50 | 3.25 | 4.2 | 1.8 |
| 3.53 | 3.25 | 4.2 | 1.8 |
| 3.60 | 3.35 | 4.3 | 1.8 |
| 4.00 | 3.70 | 4.8 | 2.0 |
| 4.50 | 4.20 | 5.4 | 2.3 |

| c/s | t | b | z |
|-------|------|------|-----|
| 5.00 | 4.65 | 6.0 | 2.5 |
| 5.33 | 4.95 | 6.4 | 2.7 |
| 5.50 | 5.15 | 6.6 | 2.8 |
| 5.70 | 5.35 | 6.9 | 3.0 |
| 6.00 | 5.65 | 7.2 | 3.1 |
| 6.50 | 6.10 | 7.8 | 3.3 |
| 6.99 | 6.60 | 8.4 | 3.6 |
| 7.00 | 6.60 | 8.4 | 3.6 |
| 7.50 | 7.10 | 9.0 | 3.8 |
| 8.00 | 7.60 | 9.6 | 4.0 |
| 8.40 | 7.90 | 10.1 | 4.2 |
| 8.50 | 8.00 | 10.2 | 4.2 |
| 9.00 | 8.50 | 10.8 | 4.3 |
| 9.50 | 9.00 | 11.4 | 4.4 |
| 10.00 | 9.50 | 12.0 | 4.5 |



| Name Grade Property | NBR (N) | HNBR (H) | XNBR (X) | EPDM (E) | VMQ (S) | CR (C) | FKM (V) | AFLAS (L) | FVMQ (F) | FFKM (K) | PTFE (T) | PU (U) | ECO (O) | NR (R) | SBR (B) | IIR (I) | ACM (A) |
|---|------------------|----------|----------|----------|---------|--------|---------|-----------|----------|----------|----------|--------|---------|--------|---------|---------|---------|
| | OZONE RESISTANCE | △ | ◎ | ○ | ◎ | ◎ | ◎◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | × | × | ○ |
| WEATHER RESISTANCE | △ | ◎ | ◎ | ◎ | ◎ | ○ | ◎ | ◎ | ◎ | ◎ | ◎ | ○ | ○ | × | △ | ◎ | ◎ |
| HEAT RESISTANCE | 120°C | 150°C | 150°C | 150°C | 220°C | 120°C | 200°C | 230°C | 200°C | 320°C | 280°C | 90°C | 135°C | 90°C | 110°C | 120°C | 150°C |
| CHEMICAL RESISTANCE | ○△ | ○ | ○ | ◎ | ◎◎ | ○△ | ◎ | ◎ | ◎ | ◎ | ◎ | ◎ | ○ | × | △ | ○ | × |
| OIL RESISTANCE | ◎ | ◎ | ◎ | × | ○△ | ○△ | ◎ | ◎◎ | ◎ | ◎ | ◎ | ◎ | ○ | × | × | × | ◎ |
| WATER SWELL RESISTANCE | ○ | ○ | ○ | ◎ | ○ | ○ | ○ | ◎ | △ | ◎ | ◎ | × | ○ | ○ | ○ | ◎ | ◎ |
| COLD RESISTANCE | -40°C | -40°C | -35°C | -50°C | -70°C | -40°C | -20°C | -2°C | -60°C | -10°C | -100°C | -40°C | -35°C | -60°C | -40°C | -50°C | -25°C |
| ABRASION RESISTANCE | ○ | ◎◎ | ◎◎ | ○ | × | ○ | ◎◎ | ◎◎ | × | ◎ | ◎ | ◎ | ◎◎ | ◎◎ | ◎◎ | ○ | △ |
| DEFORMATION RESISTANCE | ◎◎ | ○ | △ | ◎◎ | ◎ | △ | ○ | ○ | ◎ | ◎ | × | × | ○ | ◎◎ | ◎◎ | ○ | △ |
| ACID RESISTANCE | △ | ○ | ○ | ◎◎ | △ | ○△ | ◎ | ◎ | ◎ | ◎ | ◎ | × | ○△ | ○△ | ○△ | ○ | △× |
| ALKALINE RESISTANCE | ○ | ◎◎ | ○ | ◎ | △ | ◎◎ | ◎◎ | ◎ | △ | ◎ | ◎ | × | ○ | △ | △ | ◎ | × |
| TENSILE STRENGTH | ◎◎ | ◎ | ◎ | ◎◎ | × | ◎◎ | ◎◎ | ◎◎ | ○ | ◎◎ | △× | ◎ | ◎◎ | ◎ | ◎ | ○ | △ |
| STEAM RESISTANCE | ○△ | ○△ | ○△ | ◎◎ | ○△ | △ | ○△ | ◎ | ○△ | ◎ | ○ | × | ○△ | △ | ○△ | ○△ | × |
| BURNING RESISTANCE | × | × | △ | × | × | ○ | ◎ | ○ | △× | ◎ | ◎ | △ | △× | × | × | △× | △× |
| AGE RESISTANCE (STORED PROPERLY) (Y=YEAR) | 5-10Y | 5-10Y | 5-10Y | 5-10Y | ABT20Y | 5-10Y | ABT20Y | ABT20Y | ABT20Y | ABT20Y | ABT20Y | ABT 1Y | 5-10Y | 3-5Y | 5-10Y | 5-10Y | ABT20Y |

◎ EXCELLENT ○ GOOD △ SATISFYING × BAD

| Reference color | Red | | Orange | | Yellow | | Green | | Blue | | Gray | | Purple | | Brown | | Milk | | Green | |
|-----------------|-------|--|--------|--|--------|--|--------|--|-------|--|-------|--|--------|--|--------|--|--------------|--|----------------|--|
| Name | Red | | Orange | | Yellow | | Green | | Blue | | Gray | | Purple | | Brown | | Milk | | Green | |
| (PANTONE) | 187 C | | 1665 C | | 7404 U | | 3298 C | | 280 C | | 431 C | | 2665 U | | 4975 C | | Warm gray 1C | | RAL 6011 (FKM) | |



EKraz O-Ring is mainly used in semiconductor field. Its property of anti-chemical is close to PTFE, so it can resist the corrosion of most of the chemical gases such as organic acid, inorganic acid/alkali, ketone, ester, ether and alcohol. EKraz compound is competitive with Kalrez, Chemrez, etc. The trial order is welcome.

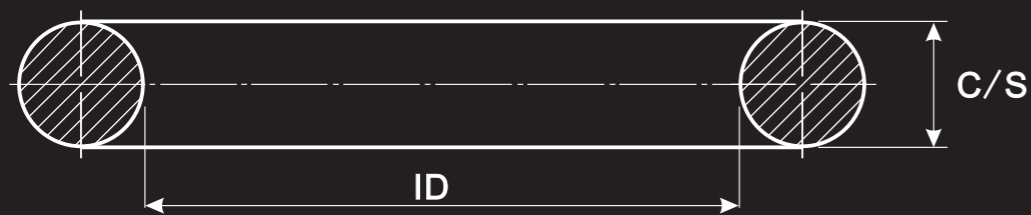


EK Escort Seal

| EKraz No. | Color | Gravity | Tensile Strength Mpa | Elongation at Break % | 100 % Modulus Mpa | Hardness Shore A | Compression Set O-Ring 70 hrs | Max Temp °C |
|-----------|-------|---------|----------------------|-----------------------|-------------------|------------------|-------------------------------|-------------|
| 9625B | black | 1.97 | 11.6 | 260 | 4.30 | 75 | 20% @ 200°C | 250 |
| 9625W | white | 1.97 | 11.2 | 252 | 4.80 | 74 | 32% @ 200°C | 250 |
| 9630B | black | 2.00 | 14.7 | 177 | 9.30 | 74 | 19% @ 200°C | 300 |
| 9630W | white | 2.00 | 15.2 | 186 | 12.40 | 76 | 36% @ 200°C | 300 |
| 9650B | black | 2.03 | 14.9 | 169 | 8.80 | 70 | 18% @ 200°C | 290 |
| 9650W | white | 2.03 | 16.7 | 193 | 13.50 | 77 | 38% @ 200°C | 290 |
| 9655B | black | 2.03 | 20.0 | 175 | 10.50 | 72 | 19% @ 200°C | 320 |
| 9655W | white | 2.03 | 19.6 | 182 | 12.30 | 74 | 36% @ 200°C | 320 |
| 9697B | black | 1.97 | 18.5 | 154 | 7.97 | 73 | 26% @ 200°C | 230 |
| 9699B | black | 2.01 | 21.2 | 91 | NO | 88 | 26% @ 200°C | 230 |
| 9697W | white | 2.36 | 20.3 | 169 | 9.68 | 72 | 28% @ 200°C | 230 |
| 9698W | white | 2.01 | 22.3 | 92 | NO | 85 | 28% @ 200°C | 230 |



O-ring is mainly used in fluid static application (For example, water, oil, air, chemicals solvent, chemicals, etc.). The temperature range is from $-60\text{ }^{\circ}\text{C}$ up to $220\text{ }^{\circ}\text{C}$. The pressure in static application should be less than 20MPa, which varies with different materials. Sometimes O-ring is used in dynamic application with the pressure less than 5MPa and also used in semi-conductor vacuum seal.



GB/T34521-2005

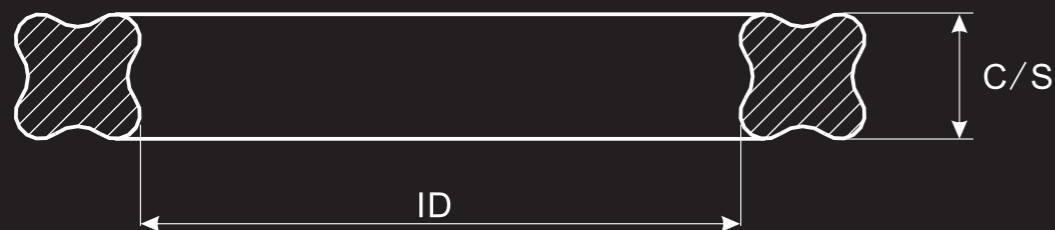
| ID | Tol (±) | ID | Tol (±) | ID | Tol (±) | ID | Tol (±) |
|---------------|---------|-----------------|---------|-----------------|---------|-----------------|----------------|
| 0 - 1.79 | 0.12 | 71.01 - 73.00 | 0.64 | 206.01 - 212.00 | 1.57 | 425.01 - 429.00 | 2.96 |
| 1.80 - 2.80 | 0.13 | 73.01 - 75.00 | 0.65 | 212.01 - 218.00 | 1.61 | 429.01 - 433.00 | 2.99 |
| 2.81 - 4.00 | 0.14 | 75.01 - 77.50 | 0.67 | 218.01 - 224.00 | 1.65 | 433.01 - 437.00 | 3.01 |
| 4.01 - 5.30 | 0.15 | 77.51 - 80.00 | 0.69 | 224.01 - 227.00 | 1.67 | 437.01 - 443.00 | 3.05 |
| 5.31 - 7.10 | 0.16 | 80.01 - 82.50 | 0.71 | 227.01 - 230.00 | 1.69 | 443.01 - 450.00 | 3.09 |
| 7.11 - 8.50 | 0.17 | 82.51 - 85.00 | 0.72 | 230.01 - 236.00 | 1.73 | 450.01 - 456.00 | 3.13 |
| 8.51 - 9.75 | 0.18 | 85.01 - 87.50 | 0.74 | 236.01 - 239.00 | 1.75 | 456.01 - 462.00 | 3.17 |
| 9.76 - 11.80 | 0.19 | 87.51 - 90.00 | 0.76 | 239.01 - 243.00 | 1.77 | 462.01 - 466.00 | 3.19 |
| 11.81 - 13.20 | 0.21 | 90.01 - 92.50 | 0.77 | 243.01 - 250.00 | 1.82 | 466.01 - 470.00 | 3.22 |
| 13.21 - 15.00 | 0.22 | 92.51 - 95.00 | 0.79 | 250.01 - 254.00 | 1.84 | 470.01 - 475.00 | 3.25 |
| 15.01 - 16.00 | 0.23 | 95.01 - 97.50 | 0.81 | 254.01 - 258.00 | 1.87 | 475.01 - 479.00 | 3.28 |
| 16.01 - 17.00 | 0.24 | 97.51 - 100.00 | 0.82 | 258.01 - 261.00 | 1.89 | 479.01 - 483.00 | 3.30 |
| 17.01 - 19.00 | 0.25 | 100.01 - 103.00 | 0.85 | 261.01 - 265.00 | 1.91 | 483.01 - 487.00 | 3.33 |
| 19.01 - 20.60 | 0.26 | 103.01 - 106.00 | 0.87 | 265.01 - 268.00 | 1.92 | 487.01 - 493.00 | 3.36 |
| 20.61 - 21.20 | 0.27 | 106.01 - 109.00 | 0.89 | 268.01 - 272.00 | 1.96 | 493.01 - 500.00 | 3.41 |
| 21.21 - 22.40 | 0.28 | 109.01 - 112.00 | 0.91 | 272.01 - 276.00 | 1.98 | 500.01 - 508.00 | 3.46 |
| 22.41 - 23.60 | 0.29 | 112.01 - 115.00 | 0.93 | 276.01 - 280.00 | 2.01 | 508.01 - 515.00 | 3.50 |
| 23.61 - 25.00 | 0.30 | 115.01 - 118.00 | 0.95 | 280.01 - 283.00 | 2.03 | 515.01 - 523.00 | 3.55 |
| 25.01 - 26.50 | 0.31 | 118.01 - 122.00 | 0.97 | 283.01 - 286.00 | 2.05 | 523.01 - 530.00 | 3.60 |
| 26.51 - 28.00 | 0.32 | 122.01 - 125.00 | 0.99 | 286.01 - 290.00 | 2.08 | 530.01 - 538.00 | 3.65 |
| 28.01 - 29.00 | 0.33 | 125.01 - 128.00 | 1.01 | 290.01 - 295.00 | 2.11 | 538.01 - 545.00 | 3.69 |
| 29.01 - 30.00 | 0.34 | 128.01 - 132.00 | 1.04 | 295.01 - 300.00 | 2.14 | 545.01 - 553.00 | 3.74 |
| 30.01 - 31.50 | 0.35 | 132.01 - 136.00 | 1.07 | 300.01 - 303.00 | 2.16 | 553.01 - 560.00 | 3.78 |
| 31.51 - 33.50 | 0.36 | 136.01 - 140.00 | 1.09 | 303.01 - 307.00 | 2.19 | 560.01 - 570.00 | 3.85 |
| 33.51 - 34.50 | 0.37 | 140.01 - 142.50 | 1.11 | 307.01 - 311.00 | 2.21 | 570.01 - 580.00 | 3.91 |
| 34.51 - 36.50 | 0.38 | 142.51 - 145.00 | 1.13 | 311.01 - 315.00 | 2.24 | 580.01 - 590.00 | 3.97 |
| 36.51 - 37.50 | 0.39 | 145.01 - 147.50 | 1.14 | 315.01 - 320.00 | 2.27 | 590.01 - 600.00 | 4.03 |
| 37.51 - 38.70 | 0.40 | 147.51 - 150.00 | 1.16 | 320.01 - 325.00 | 2.30 | 600.01 - 608.00 | 4.08 |
| 38.71 - 40.00 | 0.41 | 150.01 - 152.50 | 1.18 | 325.01 - 330.00 | 2.33 | 608.01 - 615.00 | 4.12 |
| 40.01 - 41.20 | 0.42 | 152.51 - 155.00 | 1.19 | 330.01 - 335.00 | 2.36 | 615.01 - 623.00 | 4.17 |
| 41.21 - 42.50 | 0.43 | 155.01 - 157.50 | 1.21 | 335.01 - 340.00 | 2.40 | 623.01 - 630.00 | 4.22 |
| 42.51 - 45.00 | 0.44 | 157.51 - 160.00 | 1.23 | 340.01 - 345.00 | 2.43 | 630.01 - 640.00 | 4.28 |
| 45.01 - 46.20 | 0.45 | 160.01 - 162.50 | 1.24 | 345.01 - 350.00 | 2.46 | 640.01 - 650.00 | 4.34 |
| 46.21 - 47.50 | 0.46 | 162.51 - 165.00 | 1.26 | 350.01 - 355.00 | 2.49 | 650.01 - 660.00 | 4.40 |
| 47.51 - 48.70 | 0.47 | 165.00 - 167.50 | 1.28 | 355.01 - 360.00 | 2.52 | 660.01 - 670.00 | 4.47 |
| 48.71 - 50.00 | 0.48 | 167.51 - 170.00 | 1.29 | 360.01 - 365.00 | 2.56 | | |
| 50.01 - 51.50 | 0.49 | 170.01 - 172.50 | 1.31 | 365.01 - 370.00 | 2.59 | | |
| 51.51 - 53.00 | 0.50 | 172.51 - 175.00 | 1.33 | 370.01 - 375.00 | 2.62 | | |
| 53.01 - 54.50 | 0.51 | 175.01 - 177.50 | 1.34 | 375.01 - 379.00 | 2.64 | | |
| 54.51 - 56.00 | 0.52 | 177.51 - 180.00 | 1.36 | 379.01 - 383.00 | 2.67 | | |
| 56.01 - 58.00 | 0.54 | 180.01 - 182.50 | 1.38 | 383.01 - 387.00 | 2.70 | | |
| 58.01 - 60.00 | 0.55 | 182.51 - 185.00 | 1.39 | 387.01 - 391.00 | 2.72 | | |
| 60.01 - 61.50 | 0.56 | 185.01 - 187.50 | 1.41 | 391.01 - 395.00 | 2.75 | | |
| 61.51 - 63.00 | 0.57 | 187.51 - 190.00 | 1.43 | 395.01 - 400.00 | 2.78 | | |
| 63.01 - 65.00 | 0.58 | 190.01 - 195.00 | 1.46 | 400.01 - 406.00 | 2.82 | | |
| 65.01 - 67.00 | 0.60 | 195.01 - 200.00 | 1.49 | 406.01 - 412.00 | 2.85 | | |
| 67.01 - 69.00 | 0.61 | 200.01 - 203.00 | 1.51 | 412.01 - 418.00 | 2.89 | | |
| 69.01 - 71.00 | 0.63 | 203.01 - 206.00 | 1.53 | 418.01 - 425.00 | 2.93 | | |
| | | | | | | C/S | Tol (±) |
| | | | | | | 0 - 1.79 | 0.07 |
| | | | | | | 1.80 - 2.64 | 0.08 |
| | | | | | | 2.65 - 3.54 | 0.09 |
| | | | | | | 3.55 - 5.29 | 0.10 |
| | | | | | | 5.30 - 6.99 | 0.13 |
| | | | | | | 7.00 - 8.00 | 0.15 |
| | | | | | | 8.01 - 10.00 | 0.20 |
| | | | | | | 10.01 - 15.00 | 0.25 |
| | | | | | | 15.01 - 25.00 | 0.35 |
| | | | | | | 25.01 - 100.00 | 0.45 |

ID>670mm TOL=0.64%



X-ring/Quad-ring can totally take the place of O-ring in use. Non-circular C/S can avoid rolling in reciprocating movement. The property of X-ring is improved based on the property of O-ring. Its standard size is the same as As568 standard of O-ring.

Reference: ID \geq 2.90mm, C/S \geq 1.78mm is available.



GB/T3452.1-2005

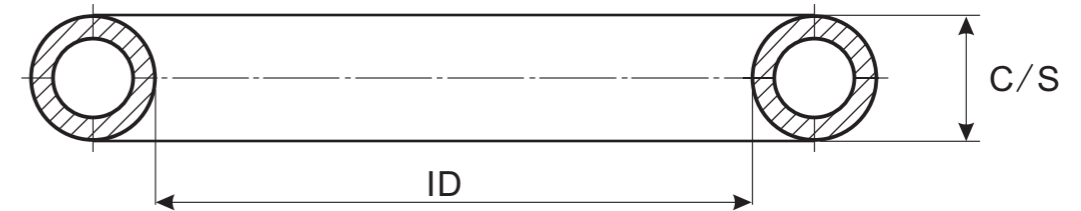
| ID | Tol (±) | ID | Tol (±) | ID | Tol (±) | ID | Tol (±) |
|---------------|---------|-----------------|---------|-----------------|---------|------------------------|---------|
| 2.90 - 4.00 | 0.14 | 75.01 - 77.50 | 0.67 | 218.01 - 224.00 | 1.65 | 433.01 - 437.00 | 3.01 |
| 4.01 - 5.30 | 0.15 | 77.51 - 80.00 | 0.69 | 224.01 - 227.00 | 1.67 | 437.01 - 443.00 | 3.05 |
| 5.31 - 7.10 | 0.16 | 80.01 - 82.50 | 0.71 | 227.01 - 230.00 | 1.69 | 443.01 - 450.00 | 3.09 |
| 7.11 - 8.50 | 0.17 | 82.51 - 85.00 | 0.72 | 230.01 - 236.00 | 1.73 | 450.01 - 456.00 | 3.13 |
| 8.51 - 9.75 | 0.18 | 85.01 - 87.50 | 0.74 | 236.01 - 239.00 | 1.75 | 456.01 - 462.00 | 3.17 |
| 9.76 - 11.80 | 0.19 | 87.51 - 90.00 | 0.76 | 239.01 - 243.00 | 1.77 | 462.01 - 466.00 | 3.19 |
| 11.81 - 13.20 | 0.21 | 90.01 - 92.50 | 0.77 | 243.01 - 250.00 | 1.82 | 466.01 - 470.00 | 3.22 |
| 13.21 - 15.00 | 0.22 | 92.51 - 95.00 | 0.79 | 250.01 - 254.00 | 1.84 | 470.01 - 475.00 | 3.25 |
| 15.01 - 16.00 | 0.23 | 95.01 - 97.50 | 0.81 | 254.01 - 258.00 | 1.87 | 475.01 - 479.00 | 3.28 |
| 16.01 - 17.00 | 0.24 | 97.51 - 100.00 | 0.82 | 258.01 - 261.00 | 1.89 | 479.01 - 483.00 | 3.30 |
| 17.01 - 19.00 | 0.25 | 100.01 - 103.00 | 0.85 | 261.01 - 265.00 | 1.91 | 483.01 - 487.00 | 3.33 |
| 19.01 - 20.60 | 0.26 | 103.01 - 106.00 | 0.87 | 265.01 - 268.00 | 1.92 | 487.01 - 493.00 | 3.36 |
| 20.61 - 21.20 | 0.27 | 106.01 - 109.00 | 0.89 | 268.01 - 272.00 | 1.96 | 493.01 - 500.00 | 3.41 |
| 21.21 - 22.40 | 0.28 | 109.01 - 112.00 | 0.91 | 272.01 - 276.00 | 1.98 | 500.01 - 508.00 | 3.46 |
| 22.41 - 23.60 | 0.29 | 112.01 - 115.00 | 0.93 | 276.01 - 280.00 | 2.01 | 508.01 - 515.00 | 3.50 |
| 23.61 - 25.00 | 0.30 | 115.01 - 118.00 | 0.95 | 280.01 - 283.00 | 2.03 | 515.01 - 523.00 | 3.55 |
| 25.01 - 26.50 | 0.31 | 118.01 - 122.00 | 0.97 | 283.01 - 286.00 | 2.05 | 523.01 - 530.00 | 3.60 |
| 26.51 - 28.00 | 0.32 | 122.01 - 125.00 | 0.99 | 286.01 - 290.00 | 2.08 | 530.01 - 538.00 | 3.65 |
| 28.01 - 29.00 | 0.33 | 125.01 - 128.00 | 1.01 | 290.01 - 295.00 | 2.11 | 538.01 - 545.00 | 3.69 |
| 29.01 - 30.00 | 0.34 | 128.01 - 132.00 | 1.04 | 295.01 - 300.00 | 2.14 | 545.01 - 553.00 | 3.74 |
| 30.01 - 31.50 | 0.35 | 132.01 - 136.00 | 1.07 | 300.01 - 303.00 | 2.16 | 553.01 - 560.00 | 3.78 |
| 31.51 - 33.50 | 0.36 | 136.01 - 140.00 | 1.09 | 303.01 - 307.00 | 2.19 | 560.01 - 570.00 | 3.85 |
| 33.51 - 34.50 | 0.37 | 140.01 - 142.50 | 1.11 | 307.01 - 311.00 | 2.21 | 570.01 - 580.00 | 3.91 |
| 34.51 - 36.50 | 0.38 | 142.51 - 145.00 | 1.13 | 311.01 - 315.00 | 2.24 | 580.01 - 590.00 | 3.97 |
| 36.51 - 37.50 | 0.39 | 145.01 - 147.50 | 1.14 | 315.01 - 320.00 | 2.27 | 590.01 - 600.00 | 4.03 |
| 37.51 - 38.70 | 0.40 | 147.51 - 150.00 | 1.16 | 320.01 - 325.00 | 2.30 | 600.01 - 608.00 | 4.08 |
| 38.71 - 40.00 | 0.41 | 150.01 - 152.50 | 1.18 | 325.01 - 330.00 | 2.33 | 608.01 - 615.00 | 4.12 |
| 40.01 - 41.20 | 0.42 | 152.51 - 155.00 | 1.19 | 330.01 - 335.00 | 2.36 | 615.01 - 623.00 | 4.17 |
| 41.21 - 42.50 | 0.43 | 155.01 - 157.50 | 1.21 | 335.01 - 340.00 | 2.40 | 623.01 - 630.00 | 4.22 |
| 42.51 - 45.00 | 0.44 | 157.51 - 160.00 | 1.23 | 340.01 - 345.00 | 2.43 | 630.01 - 640.00 | 4.28 |
| 45.01 - 46.20 | 0.45 | 160.01 - 162.50 | 1.24 | 345.01 - 350.00 | 2.46 | 640.01 - 650.00 | 4.34 |
| 46.21 - 47.50 | 0.46 | 162.51 - 165.00 | 1.26 | 350.01 - 355.00 | 2.49 | 650.01 - 660.00 | 4.40 |
| 47.51 - 48.70 | 0.47 | 165.00 - 167.50 | 1.28 | 355.01 - 360.00 | 2.52 | 660.01 - 670.00 | 4.47 |
| 48.71 - 50.00 | 0.48 | 167.51 - 170.00 | 1.29 | 360.01 - 365.00 | 2.56 | ID > 670mm TOL = 0.64% | |
| 50.01 - 51.50 | 0.49 | 170.01 - 172.50 | 1.31 | 365.01 - 370.00 | 2.59 | | |
| 51.51 - 53.00 | 0.50 | 172.51 - 175.00 | 1.33 | 370.01 - 375.00 | 2.62 | | |
| 53.01 - 54.50 | 0.51 | 175.01 - 177.50 | 1.34 | 375.01 - 379.00 | 2.64 | | |
| 54.51 - 56.00 | 0.52 | 177.51 - 180.00 | 1.36 | 379.01 - 383.00 | 2.67 | | |
| 56.01 - 58.00 | 0.54 | 180.01 - 182.50 | 1.38 | 383.01 - 387.00 | 2.70 | | |
| 58.01 - 60.00 | 0.55 | 182.51 - 185.00 | 1.39 | 387.01 - 391.00 | 2.72 | | |
| 60.01 - 61.50 | 0.56 | 185.01 - 187.50 | 1.41 | 391.01 - 395.00 | 2.75 | | |
| 61.51 - 63.00 | 0.57 | 187.51 - 190.00 | 1.43 | 395.01 - 400.00 | 2.78 | | |
| 63.01 - 65.00 | 0.58 | 190.01 - 195.00 | 1.46 | 400.01 - 406.00 | 2.82 | | |
| 65.01 - 67.00 | 0.60 | 195.01 - 200.00 | 1.49 | 406.01 - 412.00 | 2.85 | | |
| 67.01 - 69.00 | 0.61 | 200.01 - 203.00 | 1.51 | 412.01 - 418.00 | 2.89 | | |
| 69.01 - 71.00 | 0.63 | 203.01 - 206.00 | 1.53 | 418.01 - 425.00 | 2.93 | | |
| 71.01 - 73.00 | 0.64 | 206.01 - 212.00 | 1.57 | 425.01 - 429.00 | 2.96 | | |
| 73.01 - 75.00 | 0.65 | 212.01 - 218.00 | 1.61 | 429.01 - 433.00 | 2.99 | | |
| | | | | | | C/S | Tol (±) |
| | | | | | | 0 - 1.79 | 0.07 |
| | | | | | | 1.80 - 2.64 | 0.08 |
| | | | | | | 2.65 - 3.54 | 0.09 |
| | | | | | | 3.55 - 5.29 | 0.10 |
| | | | | | | 5.30 - 6.99 | 0.13 |
| | | | | | | 7.00 - 8.00 | 0.15 |
| | | | | | | 8.01 - 10.00 | 0.20 |
| | | | | | | 10.01 - 15.00 | 0.25 |
| | | | | | | 15.01 - 25.00 | 0.35 |
| | | | | | | 25.01 - 100.00 | 0.45 |



Hollow rubber o-ring is mainly used in low rebound of C/S. The hard surface with 70 Shore A won't stick with other part.

Reference: $C/S \leq 5\text{mm}$, $ID \geq 20\text{mm}$ and $C/S \geq 5\text{mm}$, $ID \geq 40\text{mm}$ are available.

Material: NBR, Silicone, FKM



| ID | Tol (+/-) | C/S | Tol (+/-) |
|-------------------|-----------|----------------|-----------|
| 20.00 – 31.49 | 0.22 | 0 – 1.79 | 0.07 |
| 31.50 – 41.19 | 0.30 | 1.80 – 2.64 | 0.08 |
| 41.20 – 51.49 | 0.36 | 2.65 – 3.54 | 0.09 |
| 51.50 – 64.99 | 0.44 | 3.55 – 5.29 | 0.10 |
| 65.00 – 82.49 | 0.53 | 5.30 – 6.99 | 0.13 |
| 82.50 – 121.99 | 0.65 | 7.00 – 8.00 | 0.15 |
| 122.00 – 184.99 | 0.90 | 8.01 – 10.00 | 0.20 |
| 185.00 – 257.99 | 1.20 | 10.01 – 15.00 | 0.25 |
| 258.00 – 324.99 | 1.60 | 15.01 – 25.00 | 0.35 |
| 325.00 – 411.99 | 2.10 | 25.01 – 100.00 | 0.45 |
| 412.00 – 514.99 | 2.60 | | |
| 515.00 – 649.99 | 3.20 | | |
| 650.00 – 670.00 | 4.00 | | |
| 670.01 – 999.00 | 5.00 | | |
| 999.01 – 1200.00 | 6.00 | | |
| 1200.01 – 1500.00 | 7.00 | | |
| 1500.01 – 1800.00 | 8.00 | | |
| 1800.01 – 2000.00 | 9.00 | | |



FEP encapsulated O-ring can resist the erosion of almost all the chemicals. It can be used in a wider range of temperature with good compression property, friction-resistance, seal endurance and longer sealing life. It is mainly used in pump, valve, reactor, mechanical seal filter, pressure container, heat-exchange container, boiler, flange, gas compression motor etc..

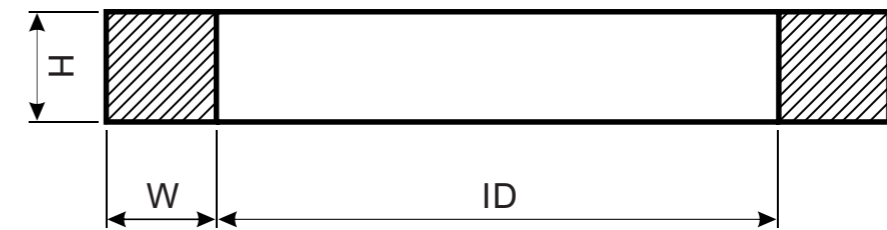
Reference: At present, we can offer FEP encapsulated (transparent pipe of tetrafluoroethylene-hexafluoropropylene with the temperature range from -200°C up to 220°C) and PFA encapsulated (transparent pipe of PolyFluoroAlkoxy with the temperature range -200~255°C) The materials inside are Silicone and FKM.



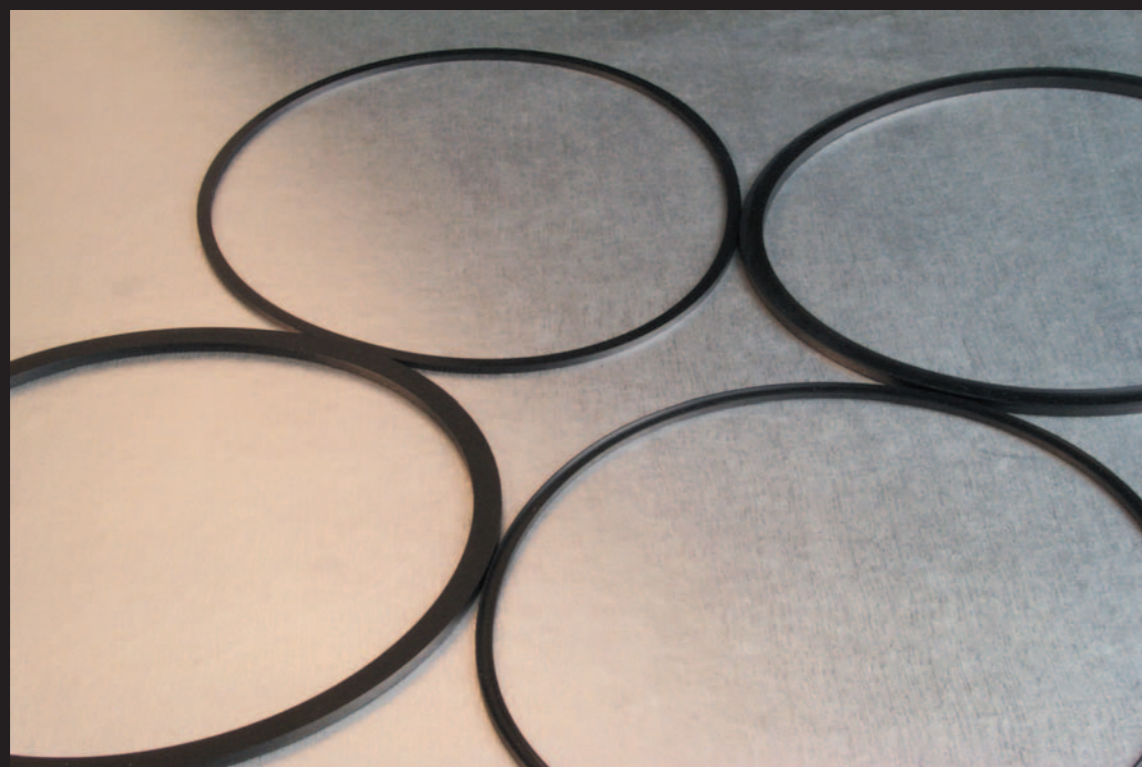
| ID | Tol (+/-) | C/S | Tol (+/-) |
|-------------------|-----------|---------------|-----------|
| 12.70 - 19.99 | 0.22 | 1.57 - 2.64 | 0.13 |
| 20.00 - 31.49 | 0.30 | 2.65 - 3.54 | 0.15 |
| 31.50 - 41.19 | 0.38 | 3.54 - 5.29 | 0.20 |
| 41.20 - 51.49 | 0.45 | 5.30 - 6.99 | 0.25 |
| 51.50 - 64.99 | 0.55 | 7.00 - 8.00 | 0.38 |
| 65.00 - 82.49 | 0.61 | 8.01 - 10.00 | 0.45 |
| 82.50 - 121.99 | 0.76 | 10.01 - 15.00 | 0.64 |
| 122.00 - 184.99 | 0.94 | 15.01 - 25.00 | 0.90 |
| 185.00 - 257.99 | 1.15 | | |
| 258.00 - 324.99 | 1.40 | | |
| 325.00 - 411.99 | 1.50 | | |
| 412.00 - 650.00 | 1.80 | | |
| 650.00 - 1000.00 | 2.00 | | |
| 1000.00 - 1500.00 | 3.00 | | |
| 1500.00 - 2000.00 | 4.00 | | |



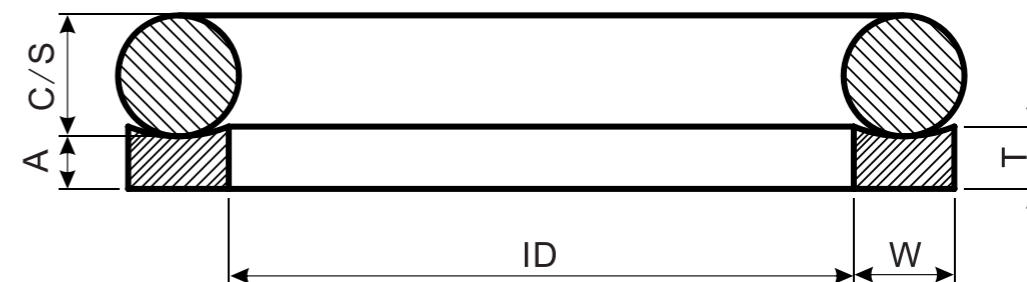
Rubber washer/Square ring is mainly used for shock absorption application or seal the gap in the static fluid (For example, water, oil, air, chemicals solvent, chemicals, etc.)



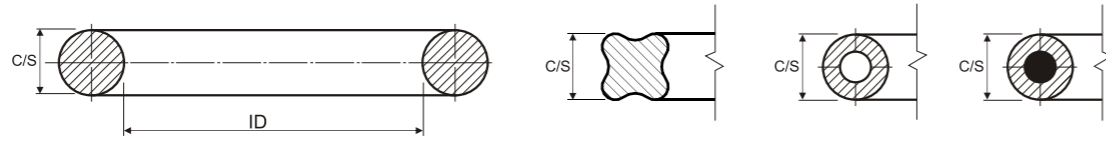
| ID | Tol (+/-) | W | Tol (+/-) |
|---------------|-----------|-----------|-----------|
| 4-14.00 | 0.13 | 0-1.68 | 0.15 |
| 14.01-15.60 | 0.18 | 1.69-2.51 | 0.15 |
| 15.61-25.12 | 0.23 | 2.52-3.40 | 0.15 |
| 25.13-29.78 | 0.25 | 3.41-5.16 | 0.15 |
| 29.79-34.65 | 0.28 | 5.17-6.73 | 0.15 |
| 34.66-44.17 | 0.33 | 6.74---- | 0.20 |
| 44.18-50.52 | 0.38 | | |
| 50.53-66.40 | 0.46 | | |
| 66.41-75.92 | 0.51 | | |
| 75.93-94.97 | 0.61 | | |
| 94.98-107.67 | 0.69 | | |
| 107.68-126.72 | 0.76 | | |
| 126.73-133.07 | 0.94 | | |
| 133.08-158.42 | 0.89 | | |
| 158.43-183.82 | 1.02 | | |
| 183.83-209.22 | 1.14 | | |
| 209.23-234.62 | 1.27 | | |
| 234.63-278.99 | 1.40 | | |
| 279.00-405.26 | 1.65 | | |
| 405.27-430.66 | 1.91 | | |
| 430.67-456.07 | 2.03 | | |
| 456.08 ---- | 0.50% | | |
| | | H | Tol (+/-) |
| | | 0-1.68 | 0.08 |
| | | 1.69-2.51 | 0.10 |
| | | 2.52-3.40 | 0.10 |
| | | 3.41-5.16 | 0.10 |
| | | 5.17-6.73 | 0.10 |
| | | 6.74---- | 0.15 |



Rubber back-up ring (80 Shore A) is usually used with O-ring in order to bear greater pressure. Customer can order according to the size of o-ring for convenience.



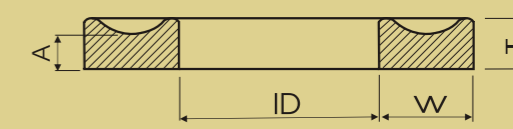
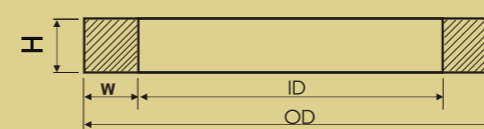
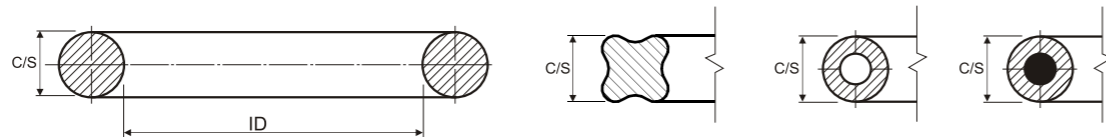
| ID | Tol (+/-) | C/S | Tol (+/-) |
|-------------------|-----------|----------------|-----------|
| 0 - 1.79 | 0.10 | 0 - 1.79 | 0.07 |
| 1.80 - 6.29 | 0.13 | 1.80 - 2.64 | 0.08 |
| 6.30 - 10.59 | 0.14 | 2.65 - 3.54 | 0.09 |
| 10.60 - 18.99 | 0.17 | 3.55 - 5.29 | 0.10 |
| 19.00 - 31.49 | 0.22 | 5.30 - 6.99 | 0.13 |
| 31.50 - 41.19 | 0.30 | 7.00 - 8.00 | 0.15 |
| 41.20 - 51.49 | 0.36 | 8.01 - 10.00 | 0.20 |
| 51.50 - 64.99 | 0.44 | 10.01 - 15.00 | 0.25 |
| 65.00 - 82.49 | 0.53 | 15.01 - 25.00 | 0.35 |
| 82.50 - 121.99 | 0.65 | 25.01 - 100.00 | 0.45 |
| 122.00 - 184.99 | 0.90 | | |
| 185.00 - 257.99 | 1.20 | | |
| 258.00 - 324.99 | 1.60 | | |
| 325.00 - 411.99 | 2.10 | | |
| 412.00 - 514.99 | 2.60 | | |
| 515.00 - 649.99 | 3.20 | | |
| 650.00 - 670.00 | 4.00 | | |
| 670.01 - 999.00 | 5.00 | | |
| 999.01 - 1200.00 | 6.00 | | |
| 1200.01 - 1500.00 | 7.00 | | |
| 1500.01 - 1800.00 | 8.00 | | |
| 1800.01 - 2000.00 | 9.00 | | |



| AS568 NO. | Nomial Size | | | O-Ring | | | | X-Ring | Hollow | FEP | Rubber Washer | | | | | | Rubber Back-Up(80 Shore A) | | | | | | | |
|-----------|-------------|---------|------|--------------------|-------|------------------|------|--------|--------|--------------|--------------------|-------|-------|------------------|------|------|----------------------------|-------|-------|-------|------------------|------|------|------|
| | Nomial Size | | | Actual Size (Inch) | | Actual Size (mm) | | | O-Ring | Encapsulated | Actual Size (Inch) | | | Actual Size (mm) | | | Actual Size (Inch) | | | | Actual Size (mm) | | | |
| | ID | OD | W | ID | C/S | ID | C/S | | | | ID | H | W | ID | H | W | ID | W | T | A | ID | W | T | A |
| -001 | 1/32 | 3/32 | 1/32 | 0.029 | 0.040 | 0.74 | 1.02 | — | — | — | 0.029 | 0.037 | 0.037 | 0.74 | 0.94 | 0.94 | — | — | — | — | — | — | — | — |
| -002 | 3/64 | 9/64 | 3/64 | 0.042 | 0.050 | 1.07 | 1.27 | — | — | — | 0.042 | 0.047 | 0.047 | 1.07 | 1.20 | 1.20 | — | — | — | — | — | — | — | — |
| -003 | 1/16 | 3/16 | 1/16 | 0.056 | 0.060 | 1.42 | 1.52 | — | — | — | 0.056 | 0.057 | 0.057 | 1.42 | 1.45 | 1.45 | — | — | — | — | — | — | — | — |
| -004 | 5/64 | 13/64 | 1/16 | 0.070 | 0.070 | 1.78 | 1.78 | — | — | — | 0.070 | 0.066 | 0.066 | 1.78 | 1.68 | 1.68 | 0.096 | 0.053 | 0.049 | 0.045 | 2.44 | 1.35 | 1.24 | 1.14 |
| -005 | 3/32 | 7/32 | 1/16 | 0.101 | 0.070 | 2.57 | 1.78 | — | — | — | 0.101 | 0.066 | 0.066 | 2.57 | 1.68 | 1.68 | 0.127 | 0.053 | 0.049 | 0.045 | 3.23 | 1.35 | 1.24 | 1.14 |
| -006 | 1/8 | 1/4 | 1/16 | 0.114 | 0.070 | 2.90 | 1.78 | ✓ | — | — | 0.114 | 0.066 | 0.066 | 2.90 | 1.68 | 1.68 | 0.140 | 0.053 | 0.049 | 0.045 | 3.56 | 1.35 | 1.24 | 1.14 |
| -007 | 5/32 | 9/32 | 1/16 | 0.145 | 0.070 | 3.68 | 1.78 | ✓ | — | — | 0.145 | 0.066 | 0.066 | 3.68 | 1.68 | 1.68 | 0.171 | 0.053 | 0.049 | 0.045 | 4.34 | 1.35 | 1.24 | 1.14 |
| -008 | 3/16 | 5/16 | 1/16 | 0.176 | 0.070 | 4.47 | 1.78 | ✓ | — | — | 0.176 | 0.066 | 0.066 | 4.47 | 1.68 | 1.68 | 0.202 | 0.053 | 0.049 | 0.045 | 5.13 | 1.35 | 1.24 | 1.14 |
| -009 | 7/32 | 3/8 | 1/16 | 0.208 | 0.070 | 5.28 | 1.78 | ✓ | — | — | 0.208 | 0.066 | 0.066 | 5.28 | 1.68 | 1.68 | 0.234 | 0.053 | 0.049 | 0.045 | 5.94 | 1.35 | 1.24 | 1.14 |
| -010 | 1/4 | 7/16 | 1/16 | 0.239 | 0.070 | 6.07 | 1.78 | ✓ | — | — | 0.239 | 0.066 | 0.066 | 6.07 | 1.68 | 1.68 | 0.265 | 0.053 | 0.049 | 0.045 | 6.73 | 1.35 | 1.24 | 1.14 |
| -011 | 5/16 | 1/2 | 1/16 | 0.301 | 0.070 | 7.65 | 1.78 | ✓ | — | — | 0.301 | 0.066 | 0.066 | 7.65 | 1.68 | 1.68 | 0.327 | 0.053 | 0.049 | 0.045 | 8.31 | 1.35 | 1.24 | 1.14 |
| -012 | 3/8 | 11/32 | 1/16 | 0.364 | 0.070 | 9.25 | 1.78 | ✓ | — | — | 0.364 | 0.066 | 0.066 | 9.25 | 1.68 | 1.68 | 0.390 | 0.053 | 0.049 | 0.045 | 9.91 | 1.35 | 1.24 | 1.14 |
| -013 | 7/16 | 9/16 | 1/16 | 0.426 | 0.070 | 10.82 | 1.78 | ✓ | — | — | 0.426 | 0.066 | 0.066 | 10.82 | 1.68 | 1.68 | 0.455 | 0.053 | 0.049 | 0.045 | 11.56 | 1.35 | 1.24 | 1.14 |
| -014 | 1/2 | 5/8 | 1/16 | 0.489 | 0.070 | 12.42 | 1.78 | ✓ | — | ✓ | 0.489 | 0.066 | 0.066 | 12.42 | 1.68 | 1.68 | 0.518 | 0.053 | 0.049 | 0.045 | 13.16 | 1.35 | 1.24 | 1.14 |
| -015 | 9/16 | 11/16 | 1/16 | 0.551 | 0.070 | 14.00 | 1.78 | ✓ | — | ✓ | 0.551 | 0.066 | 0.066 | 14.00 | 1.68 | 1.68 | 0.580 | 0.053 | 0.049 | 0.045 | 14.73 | 1.35 | 1.24 | 1.14 |
| -016 | 5/8 | 3/4 | 1/16 | 0.614 | 0.070 | 15.60 | 1.78 | ✓ | — | ✓ | 0.614 | 0.066 | 0.066 | 15.60 | 1.68 | 1.68 | 0.643 | 0.053 | 0.049 | 0.045 | 16.33 | 1.35 | 1.24 | 1.14 |
| -017 | 11/16 | 13/16 | 1/16 | 0.676 | 0.070 | 17.17 | 1.78 | ✓ | — | ✓ | 0.676 | 0.066 | 0.066 | 17.17 | 1.68 | 1.68 | 0.705 | 0.053 | 0.049 | 0.045 | 17.91 | 1.35 | 1.24 | 1.14 |
| -018 | 3/4 | 7/8 | 1/16 | 0.739 | 0.070 | 18.77 | 1.78 | ✓ | — | ✓ | 0.739 | 0.066 | 0.066 | 18.77 | 1.68 | 1.68 | 0.768 | 0.053 | 0.049 | 0.045 | 19.51 | 1.35 | 1.24 | 1.14 |
| -019 | 13/16 | 15/16 | 1/16 | 0.801 | 0.070 | 20.35 | 1.78 | ✓ | ✓ | ✓ | 0.801 | 0.066 | 0.066 | 20.35 | 1.68 | 1.68 | 0.830 | 0.053 | 0.049 | 0.045 | 21.08 | 1.35 | 1.24 | 1.14 |
| -020 | 7/8 | 1 15/16 | 1/16 | 0.864 | 0.070 | 21.95 | 1.78 | ✓ | ✓ | ✓ | 0.864 | 0.066 | 0.066 | 21.95 | 1.68 | 1.68 | 0.893 | 0.053 | 0.049 | 0.045 | 22.68 | 1.35 | 1.24 | 1.14 |
| -021 | 15/16 | 1 1/16 | 1/16 | 0.926 | 0.070 | 23.52 | 1.78 | ✓ | ✓ | ✓ | 0.926 | 0.066 | 0.066 | 23.52 | 1.68 | 1.68 | 0.955 | 0.053 | 0.049 | 0.045 | 24.26 | 1.35 | 1.24 | 1.14 |
| -022 | 1 | 1 1/8 | 1/16 | 0.989 | 0.070 | 25.12 | 1.78 | ✓ | ✓ | ✓ | 0.989 | 0.066 | 0.066 | 25.12 | 1.68 | 1.68 | 1.018 | 0.053 | 0.049 | 0.045 | 25.86 | 1.35 | 1.24 | 1.14 |
| -023 | 1 1/16 | 1 3/16 | 1/16 | 1.051 | 0.070 | 26.70 | 1.78 | ✓ | ✓ | ✓ | 1.051 | 0.066 | 0.066 | 26.70 | 1.68 | 1.68 | 1.080 | 0.053 | 0.049 | 0.045 | 27.43 | 1.35 | 1.24 | 1.14 |
| -024 | 1 1/8 | 1 1/4 | 1/16 | 1.114 | 0.070 | 28.30 | 1.78 | ✓ | ✓ | ✓ | 1.114 | 0.066 | 0.066 | 28.30 | 1.68 | 1.68 | 1.143 | 0.053 | 0.049 | 0.045 | 29.03 | 1.35 | 1.24 | 1.14 |
| -025 | 1 3/16 | 1 5/16 | 1/16 | 1.176 | 0.070 | 29.87 | 1.78 | ✓ | ✓ | ✓ | 1.176 | 0.066 | 0.066 | 29.87 | 1.68 | 1.68 | 1.205 | 0.053 | 0.049 | 0.045 | 30.61 | 1.35 | 1.24 | 1.14 |
| -026 | 1 1/4 | 1 3/8 | 1/16 | 1.239 | 0.070 | 31.47 | 1.78 | ✓ | ✓ | ✓ | 1.239 | 0.066 | 0.066 | 31.47 | 1.68 | 1.68 | 1.268 | 0.053 | 0.049 | 0.045 | 32.21 | 1.35 | 1.24 | 1.14 |
| -027 | 1 5/16 | 1 7/16 | 1/16 | 1.301 | 0.070 | 33.05 | 1.78 | ✓ | ✓ | ✓ | 1.301 | 0.066 | 0.066 | 33.05 | 1.68 | 1.68 | 1.330 | 0.053 | 0.049 | 0.045 | 33.78 | 1.35 | 1.24 | 1.14 |
| -028 | 1 3/8 | 1 1/2 | 1/16 | 1.364 | 0.070 | 34.65 | 1.78 | ✓ | ✓ | ✓ | 1.364 | 0.066 | 0.066 | 34.65 | 1.68 | 1.68 | 1.393 | 0.053 | 0.049 | 0.045 | 35.38 | 1.35 | 1.24 | 1.14 |
| -029 | 1 1/2 | 1 5/8 | 1/16 | 1.489 | 0.070 | 37.82 | 1.78 | ✓ | ✓ | ✓ | 1.489 | 0.066 | 0.066 | 37.82 | 1.68 | 1.68 | 1.518 | 0.053 | 0.049 | 0.045 | 38.56 | 1.35 | 1.24 | 1.14 |
| -030 | 1 5/8 | 1 3/4 | 1/16 | 1.614 | 0.070 | 41.00 | 1.78 | ✓ | ✓ | ✓ | 1.614 | 0.066 | 0.066 | 41.00 | 1.68 | 1.68 | 1.643 | 0.053 | 0.049 | 0.045 | 41.73 | 1.35 | 1.24 | 1.14 |
| -031 | 1 3/4 | 1 7/8 | 1/16 | 1.739 | 0.070 | 44.17 | 1.78 | ✓ | ✓ | ✓ | 1.739 | 0.066 | 0.066 | 44.17 | 1.68 | 1.68 | 1.768 | 0.053 | 0.049 | 0.045 | 44.91 | 1.35 | 1.24 | 1.14 |
| -032 | 1 7/8 | 2 | 1/16 | 1.864 | 0.070 | 47.35 | 1.78 | ✓ | ✓ | ✓ | 1.864 | 0.066 | 0.066 | 47.35 | 1.68 | 1.68 | 1.893 | 0.053 | 0.049 | 0.045 | 48.08 | 1.35 | 1.24 | 1.14 |

●Reference: ✓: Indicate EK available —: Indicate EK unavailable ●X-Ring, Hollow O-Ring cord,

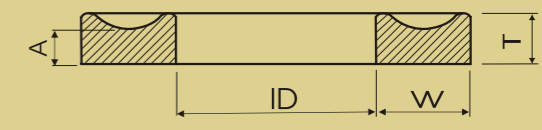
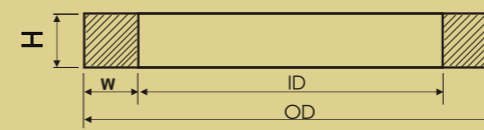
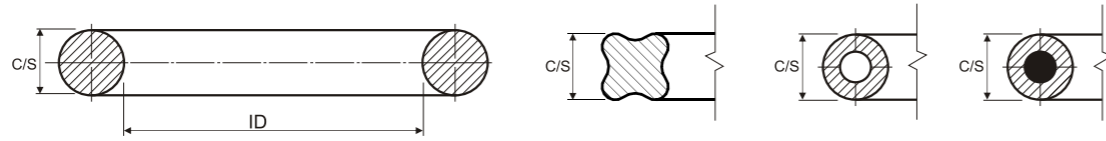
Encapsulated O-Ring/FEP O-Ring inside diameter/ cross section is the same as that of O-Ring



| AS568 NO. | Nomial Size | | | O-Ring | | | | X-Ring | Hollow | FEP | Rubber Washer | | | | | | Rubber Back-Up(80 Shore A) | | | | | | | |
|-----------|-------------|---------|------|--------------------|-------|------------------|------|--------|--------|--------------|--------------------|-------|-------|------------------|------|------|----------------------------|-------|-------|------------------|-------|------|------|------|
| | Nomial Size | | | Actual Size (Inch) | | Actual Size (mm) | | | O-Ring | Encapsulated | Actual Size (Inch) | | | Actual Size (mm) | | | Actual Size (Inch) | | | Actual Size (mm) | | | | |
| | ID | OD | W | ID | C/S | ID | C/S | | | | ID | H | W | ID | H | W | ID | W | T | A | ID | W | T | A |
| -116 | 3/4 | 15/16 | 3/32 | 0.737 | 0.103 | 18.72 | 2.62 | ✓ | — | ✓ | 0.737 | 0.099 | 0.099 | 18.72 | 2.51 | 2.51 | 0.765 | 0.086 | 0.053 | 0.045 | 19.43 | 2.18 | 1.35 | 1.14 |
| -117 | 13/16 | 1 | 3/32 | 0.799 | 0.103 | 20.29 | 2.62 | ✓ | ✓ | ✓ | 0.799 | 0.099 | 0.099 | 20.29 | 2.51 | 2.51 | 0.831 | 0.086 | 0.053 | 0.045 | 21.11 | 2.18 | 1.35 | 1.14 |
| -118 | 7/8 | 1 1/16 | 3/32 | 0.862 | 0.103 | 21.89 | 2.62 | ✓ | ✓ | ✓ | 0.862 | 0.099 | 0.099 | 21.89 | 2.51 | 2.51 | 0.893 | 0.086 | 0.053 | 0.045 | 22.68 | 2.18 | 1.35 | 1.14 |
| -119 | 15/16 | 1 1/8 | 3/32 | 0.924 | 0.103 | 23.47 | 2.62 | ✓ | ✓ | ✓ | 0.924 | 0.099 | 0.099 | 23.47 | 2.51 | 2.51 | 0.956 | 0.086 | 0.053 | 0.045 | 24.28 | 2.18 | 1.35 | 1.14 |
| -120 | 1 | 1 3/16 | 3/32 | 0.987 | 0.103 | 25.07 | 2.62 | ✓ | ✓ | ✓ | 0.987 | 0.099 | 0.099 | 25.07 | 2.51 | 2.51 | 1.018 | 0.086 | 0.053 | 0.045 | 25.86 | 2.18 | 1.35 | 1.14 |
| -121 | 1 1/16 | 1 1/4 | 3/32 | 1.049 | 0.103 | 26.64 | 2.62 | ✓ | ✓ | ✓ | 1.049 | 0.099 | 0.099 | 26.64 | 2.51 | 2.51 | 1.081 | 0.086 | 0.053 | 0.045 | 27.46 | 2.18 | 1.35 | 1.14 |
| -122 | 1 1/8 | 1 5/16 | 3/32 | 1.112 | 0.103 | 28.24 | 2.62 | ✓ | ✓ | ✓ | 1.112 | 0.099 | 0.099 | 28.24 | 2.51 | 2.51 | 1.143 | 0.086 | 0.053 | 0.045 | 29.03 | 2.18 | 1.35 | 1.14 |
| -123 | 1 3/16 | 1 3/8 | 3/32 | 1.174 | 0.103 | 29.82 | 2.62 | ✓ | ✓ | ✓ | 1.174 | 0.099 | 0.099 | 29.82 | 2.51 | 2.51 | 1.206 | 0.086 | 0.053 | 0.045 | 30.63 | 2.18 | 1.35 | 1.14 |
| -124 | 1/4 | 1 7/16 | 3/32 | 1.237 | 0.103 | 31.42 | 2.62 | ✓ | ✓ | ✓ | 1.237 | 0.099 | 0.099 | 31.42 | 2.51 | 2.51 | 1.268 | 0.086 | 0.053 | 0.045 | 32.21 | 2.18 | 1.35 | 1.14 |
| -125 | 1 5/16 | 1 1/2 | 3/32 | 1.299 | 0.103 | 32.99 | 2.62 | ✓ | ✓ | ✓ | 1.299 | 0.099 | 0.099 | 32.99 | 2.51 | 2.51 | 1.331 | 0.086 | 0.053 | 0.045 | 33.81 | 2.18 | 1.35 | 1.14 |
| -126 | 1 3/8 | 1 9/16 | 3/32 | 1.362 | 0.103 | 34.59 | 2.62 | ✓ | ✓ | ✓ | 1.362 | 0.099 | 0.099 | 34.59 | 2.51 | 2.51 | 1.393 | 0.086 | 0.053 | 0.045 | 35.38 | 2.18 | 1.35 | 1.14 |
| -127 | 1 7/16 | 1 5/8 | 3/32 | 1.424 | 0.103 | 36.17 | 2.62 | ✓ | ✓ | ✓ | 1.424 | 0.099 | 0.099 | 36.17 | 2.51 | 2.51 | 1.456 | 0.086 | 0.053 | 0.045 | 36.98 | 2.18 | 1.35 | 1.14 |
| -128 | 1 1/2 | 1 11/16 | 3/32 | 1.487 | 0.103 | 37.77 | 2.62 | ✓ | ✓ | ✓ | 1.487 | 0.099 | 0.099 | 37.77 | 2.51 | 2.51 | 1.518 | 0.086 | 0.053 | 0.045 | 38.56 | 2.18 | 1.35 | 1.14 |
| -129 | 1 9/16 | 1 3/4 | 3/32 | 1.549 | 0.103 | 39.34 | 2.62 | ✓ | ✓ | ✓ | 1.549 | 0.099 | 0.099 | 39.34 | 2.51 | 2.51 | 1.581 | 0.086 | 0.053 | 0.045 | 40.16 | 2.18 | 1.35 | 1.14 |
| -130 | 1 5/8 | 1 13/16 | 3/32 | 1.612 | 0.103 | 40.94 | 2.62 | ✓ | ✓ | ✓ | 1.612 | 0.099 | 0.099 | 40.94 | 2.51 | 2.51 | 1.643 | 0.086 | 0.053 | 0.045 | 41.73 | 2.18 | 1.35 | 1.14 |
| -131 | 11/16 | 1 7/8 | 3/32 | 1.674 | 0.103 | 42.52 | 2.62 | ✓ | ✓ | ✓ | 1.674 | 0.099 | 0.099 | 42.52 | 2.51 | 2.51 | 1.706 | 0.086 | 0.053 | 0.045 | 43.33 | 2.18 | 1.35 | 1.14 |
| -132 | 1 3/4 | 1 15/16 | 3/32 | 1.737 | 0.103 | 44.12 | 2.62 | ✓ | ✓ | ✓ | 1.737 | 0.099 | 0.099 | 44.12 | 2.51 | 2.51 | 1.768 | 0.086 | 0.053 | 0.045 | 44.91 | 2.18 | 1.35 | 1.14 |
| -133 | 1 13/16 | 2 | 3/32 | 1.799 | 0.103 | 45.69 | 2.62 | ✓ | ✓ | ✓ | 1.799 | 0.099 | 0.099 | 45.69 | 2.51 | 2.51 | 1.831 | 0.086 | 0.053 | 0.045 | 46.51 | 2.18 | 1.35 | 1.14 |
| -134 | 1 7/8 | 2 1/16 | 3/32 | 1.862 | 0.103 | 47.29 | 2.62 | ✓ | ✓ | ✓ | 1.862 | 0.099 | 0.099 | 47.29 | 2.51 | 2.51 | 1.893 | 0.086 | 0.053 | 0.045 | 48.08 | 2.18 | 1.35 | 1.14 |
| -135 | 1 15/16 | 2 1/8 | 3/32 | 1.925 | 0.103 | 48.90 | 2.62 | ✓ | ✓ | ✓ | 1.925 | 0.099 | 0.099 | 48.90 | 2.51 | 2.51 | 1.956 | 0.086 | 0.053 | 0.045 | 49.68 | 2.18 | 1.35 | 1.14 |
| -136 | 2 | 2 3/16 | 3/32 | 1.987 | 0.103 | 50.47 | 2.62 | ✓ | ✓ | ✓ | 1.987 | 0.099 | 0.099 | 50.47 | 2.51 | 2.51 | 2.018 | 0.086 | 0.053 | 0.045 | 51.26 | 2.18 | 1.35 | 1.14 |
| -137 | 2 1/16 | 2 1/4 | 3/32 | 2.050 | 0.103 | 52.07 | 2.62 | ✓ | ✓ | ✓ | 2.050 | 0.099 | 0.099 | 52.07 | 2.51 | 2.51 | 2.081 | 0.086 | 0.053 | 0.045 | 52.86 | 2.18 | 1.35 | 1.14 |
| -138 | 2 1/8 | 2 5/16 | 3/32 | 2.112 | 0.103 | 53.64 | 2.62 | ✓ | ✓ | ✓ | 2.112 | 0.099 | 0.099 | 53.64 | 2.51 | 2.51 | 2.143 | 0.086 | 0.053 | 0.045 | 54.43 | 2.18 | 1.35 | 1.14 |
| -139 | 2 3/16 | 2 3/8 | 3/32 | 2.175 | 0.103 | 55.25 | 2.62 | ✓ | ✓ | ✓ | 2.175 | 0.099 | 0.099 | 55.25 | 2.51 | 2.51 | 2.206 | 0.086 | 0.053 | 0.045 | 56.03 | 2.18 | 1.35 | 1.14 |
| -140 | 2 1/4 | 2 7/16 | 3/32 | 2.237 | 0.103 | 56.82 | 2.62 | ✓ | ✓ | ✓ | 2.237 | 0.099 | 0.099 | 56.82 | 2.51 | 2.51 | 2.268 | 0.086 | 0.053 | 0.045 | 57.61 | 2.18 | 1.35 | 1.14 |
| -141 | 2 5/16 | 2 1/2 | 3/32 | 2.300 | 0.103 | 58.42 | 2.62 | ✓ | ✓ | ✓ | 2.300 | 0.099 | 0.099 | 58.42 | 2.51 | 2.51 | 2.331 | 0.086 | 0.053 | 0.045 | 59.21 | 2.18 | 1.35 | 1.14 |
| -142 | 2 3/8 | 2 9/16 | 3/32 | 2.362 | 0.103 | 59.99 | 2.62 | ✓ | ✓ | ✓ | 2.362 | 0.099 | 0.099 | 59.99 | 2.51 | 2.51 | 2.393 | 0.086 | 0.053 | 0.045 | 60.78 | 2.18 | 1.35 | 1.14 |
| -143 | 2 7/16 | 2 5/8 | 3/32 | 2.425 | 0.103 | 61.60 | 2.62 | ✓ | ✓ | ✓ | 2.425 | 0.099 | 0.099 | 61.60 | 2.51 | 2.51 | 2.456 | 0.086 | 0.053 | 0.045 | 62.38 | 2.18 | 1.35 | 1.14 |
| -144 | 2 1/2 | 2 11/16 | 3/32 | 2.487 | 0.103 | 63.17 | 2.62 | ✓ | ✓ | ✓ | 2.487 | 0.099 | 0.099 | 63.17 | 2.51 | 2.51 | 2.518 | 0.086 | 0.053 | 0.045 | 63.96 | 2.18 | 1.35 | 1.14 |
| -145 | 2 9/16 | 2 3/4 | 3/32 | 2.550 | 0.103 | 64.77 | 2.62 | ✓ | ✓ | ✓ | 2.550 | 0.099 | 0.099 | 64.77 | 2.51 | 2.51 | 2.581 | 0.086 | 0.053 | 0.045 | 65.56 | 2.18 | 1.35 | 1.14 |
| -146 | 2 5/8 | 2 13/16 | 3/32 | 2.612 | 0.103 | 66.34 | 2.62 | ✓ | ✓ | ✓ | 2.612 | 0.099 | 0.099 | 66.34 | 2.51 | 2.51 | 2.643 | 0.086 | 0.053 | 0.045 | 67.13 | 2.18 | 1.35 | 1.14 |
| -147 | 2 11/16 | 2 7/8 | 3/32 | 2.675 | 0.103 | 67.95 | 2.62 | ✓ | ✓ | ✓ | 2.675 | 0.099 | 0.099 | 67.95 | 2.51 | 2.51 | 2.706 | 0.086 | 0.053 | 0.045 | 68.73 | 2.18 | 1.35 | 1.14 |

●Reference: ✓: Indicate EK available —: Indicate EK unavailable ●X-Ring, Hollow O-Ring cord,

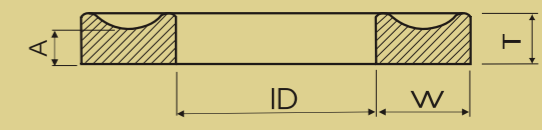
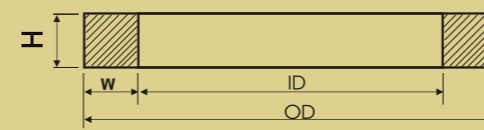
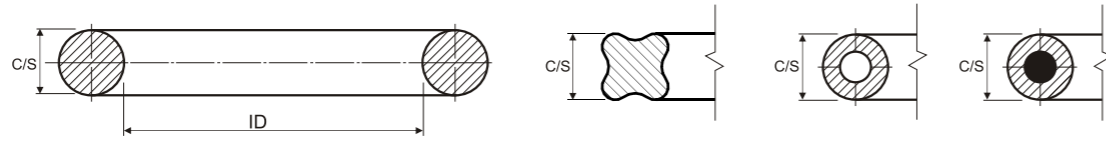
Encapsulated O-Ring/FEP O-Ring inside diameter/ cross section is the same as that of O-Ring



| AS568 NO. | Nomial Size | | | O-Ring | | | | X-Ring | Hollow | FEP | Rubber Washer | | | | | | Rubber Back-Up(80 Shore A) | | | | | | | |
|-----------|-------------|--------|------|--------------------|-------|------------------|------|--------|--------|--------------|--------------------|-------|-------|------------------|------|------|----------------------------|-------|-------|-------|------------------|------|------|------|
| | Nomial Size | | | Actual Size (Inch) | | Actual Size (mm) | | | O-Ring | Encapsulated | Actual Size (Inch) | | | Actual Size (mm) | | | Actual Size (Inch) | | | | Actual Size (mm) | | | |
| | ID | OD | W | ID | C/S | ID | C/S | | | | ID | H | W | ID | H | W | ID | W | T | A | ID | W | T | A |
| -386 | 17 | 17 3/8 | 3/16 | 16.955 | 0.210 | 430.66 | 5.33 | ✓ | ✓ | ✓ | 16.955 | 0.203 | 0.203 | 430.66 | 5.16 | 5.16 | 17.008 | 0.183 | 0.076 | 0.060 | 432.00 | 4.65 | 1.93 | 1.52 |
| -387 | 18 | 18 3/8 | 3/16 | 17.955 | 0.210 | 456.06 | 5.33 | ✓ | ✓ | ✓ | 17.955 | 0.203 | 0.203 | 456.06 | 5.16 | 5.16 | 18.008 | 0.183 | 0.076 | 0.060 | 457.40 | 4.65 | 1.93 | 1.52 |
| -388 | 19 | 19 3/8 | 3/16 | 18.955 | 0.210 | 481.46 | 5.33 | ✓ | ✓ | ✓ | 18.955 | 0.203 | 0.203 | 481.46 | 5.16 | 5.16 | 19.006 | 0.183 | 0.076 | 0.060 | 482.75 | 4.65 | 1.93 | 1.52 |
| -389 | 20 | 20 3/8 | 3/16 | 19.995 | 0.210 | 506.86 | 5.33 | ✓ | ✓ | ✓ | 19.995 | 0.203 | 0.203 | 506.86 | 5.16 | 5.16 | 20.006 | 0.183 | 0.076 | 0.060 | 508.15 | 4.65 | 1.93 | 1.52 |
| -390 | 21 | 21 3/8 | 3/16 | 20.955 | 0.210 | 532.26 | 5.33 | ✓ | ✓ | ✓ | 20.955 | 0.203 | 0.203 | 532.26 | 5.16 | 5.16 | 21.006 | 0.183 | 0.076 | 0.060 | 533.55 | 4.65 | 1.93 | 1.52 |
| -391 | 22 | 22 3/8 | 3/16 | 21.955 | 0.210 | 557.66 | 5.33 | ✓ | ✓ | ✓ | 21.955 | 0.203 | 0.203 | 557.66 | 5.16 | 5.16 | 22.006 | 0.183 | 0.076 | 0.060 | 558.95 | 4.65 | 1.93 | 1.52 |
| -392 | 23 | 23 3/8 | 3/16 | 22.940 | 0.210 | 582.68 | 5.33 | ✓ | ✓ | ✓ | 22.940 | 0.203 | 0.203 | 582.68 | 5.16 | 5.16 | 22.993 | 0.183 | 0.076 | 0.060 | 584.02 | 4.65 | 1.93 | 1.52 |
| -393 | 24 | 24 3/8 | 3/16 | 23.940 | 0.210 | 608.08 | 5.33 | ✓ | ✓ | ✓ | 23.940 | 0.203 | 0.203 | 608.08 | 5.16 | 5.16 | 23.993 | 0.183 | 0.076 | 0.060 | 609.42 | 4.65 | 1.93 | 1.52 |
| -394 | 25 | 25 3/8 | 3/16 | 24.940 | 0.210 | 633.48 | 5.33 | ✓ | ✓ | ✓ | 24.940 | 0.203 | 0.203 | 633.48 | 5.16 | 5.16 | 24.993 | 0.183 | 0.076 | 0.060 | 634.82 | 4.65 | 1.93 | 1.52 |
| -395 | 26 | 26 3/8 | 3/16 | 25.940 | 0.210 | 658.88 | 5.33 | ✓ | ✓ | ✓ | 25.940 | 0.203 | 0.203 | 658.88 | 5.16 | 5.16 | 25.993 | 0.183 | 0.076 | 0.060 | 660.22 | 4.65 | 1.93 | 1.52 |
| -400 | 1 3/8 | 1 7/8 | 1/4 | 1.350 | 0.275 | 34.29 | 6.99 | ✓ | — | — | 1.350 | 0.265 | 0.265 | 34.29 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -401 | 1 1/2 | 2 | 1/4 | 1.475 | 0.275 | 37.47 | 6.99 | ✓ | — | — | 1.475 | 0.265 | 0.265 | 37.47 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -402 | 1 5/8 | 2 1/8 | 1/4 | 1.600 | 0.275 | 40.64 | 6.99 | ✓ | ✓ | — | 1.600 | 0.265 | 0.265 | 40.64 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -403 | 1 3/4 | 2 1/4 | 1/4 | 1.725 | 0.275 | 43.82 | 6.99 | ✓ | ✓ | — | 1.725 | 0.265 | 0.265 | 43.82 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -404 | 1 7/8 | 2 3/8 | 1/4 | 1.850 | 0.275 | 46.99 | 6.99 | ✓ | ✓ | — | 1.850 | 0.265 | 0.265 | 46.99 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -405 | 2 | 2 1/2 | 1/4 | 1.975 | 0.275 | 50.17 | 6.99 | ✓ | ✓ | — | 1.975 | 0.265 | 0.265 | 50.17 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -406 | 2 1/8 | 2 5/8 | 1/4 | 2.100 | 0.275 | 53.34 | 6.99 | ✓ | ✓ | — | 2.100 | 0.265 | 0.265 | 53.34 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -407 | 2 1/4 | 2 3/4 | 1/4 | 2.225 | 0.275 | 56.52 | 6.99 | ✓ | ✓ | — | 2.225 | 0.265 | 0.265 | 56.52 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -408 | 2 3/8 | 2 7/8 | 1/4 | 2.350 | 0.275 | 59.69 | 6.99 | ✓ | ✓ | — | 2.350 | 0.265 | 0.265 | 59.69 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -409 | 2 1/2 | 3 | 1/4 | 2.475 | 0.275 | 62.87 | 6.99 | ✓ | ✓ | ✓ | 2.475 | 0.265 | 0.265 | 62.87 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -410 | 2 5/8 | 3 1/8 | 1/4 | 2.600 | 0.275 | 66.04 | 6.99 | ✓ | ✓ | ✓ | 2.600 | 0.265 | 0.265 | 66.04 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -411 | 2 3/4 | 3 1/4 | 1/4 | 2.725 | 0.275 | 69.22 | 6.99 | ✓ | ✓ | ✓ | 2.725 | 0.265 | 0.265 | 69.22 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -412 | 2 7/8 | 3 3/8 | 1/4 | 2.850 | 0.275 | 72.39 | 6.99 | ✓ | ✓ | ✓ | 2.850 | 0.265 | 0.265 | 72.39 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -413 | 3 | 3 1/2 | 1/4 | 2.975 | 0.275 | 75.57 | 6.99 | ✓ | ✓ | ✓ | 2.975 | 0.265 | 0.265 | 75.57 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -414 | 3 1/8 | 3 5/8 | 1/4 | 3.100 | 0.275 | 78.74 | 6.99 | ✓ | ✓ | ✓ | 3.100 | 0.265 | 0.265 | 78.74 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -415 | 3 1/4 | 3 3/4 | 1/4 | 3.225 | 0.275 | 81.92 | 6.99 | ✓ | ✓ | ✓ | 3.225 | 0.265 | 0.265 | 81.92 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -416 | 3 3/8 | 3 7/8 | 1/4 | 3.350 | 0.275 | 85.09 | 6.99 | ✓ | ✓ | ✓ | 3.350 | 0.265 | 0.265 | 85.09 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -417 | 3 1/2 | 4 | 1/4 | 3.475 | 0.275 | 88.27 | 6.99 | ✓ | ✓ | ✓ | 3.475 | 0.265 | 0.265 | 88.27 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -418 | 3 5/8 | 4 1/8 | 1/4 | 3.600 | 0.275 | 91.44 | 6.99 | ✓ | ✓ | ✓ | 3.600 | 0.265 | 0.265 | 91.44 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -419 | 3 3/4 | 4 1/4 | 1/4 | 3.725 | 0.275 | 94.62 | 6.99 | ✓ | ✓ | ✓ | 3.725 | 0.265 | 0.265 | 94.62 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -420 | 3 7/8 | 4 3/8 | 1/4 | 3.850 | 0.275 | 97.79 | 6.99 | ✓ | ✓ | ✓ | 3.850 | 0.265 | 0.265 | 97.79 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -421 | 4 | 4 1/2 | 1/4 | 3.975 | 0.275 | 100.97 | 6.99 | ✓ | ✓ | ✓ | 3.975 | 0.265 | 0.265 | 100.97 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |

●Reference: ✓: Indicate EK available —: Indicate EK unavailable ●X-Ring, Hollow O-Ring cord,

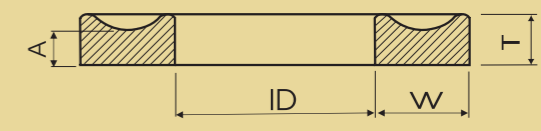
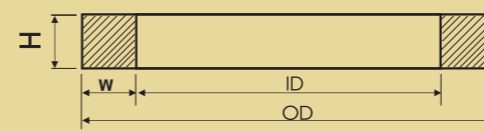
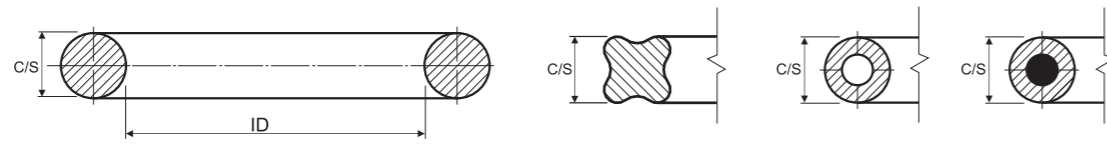
Encapsulated O-Ring/FEP O-Ring inside diameter/ cross section is the same as that of O-Ring



| AS568 NO. | Nomial Size | | | O-Ring | | | | X-Ring | Hollow | FEP | Rubber Washer | | | | | | Rubber Back-Up(80 Shore A) | | | | | | | |
|-----------|-------------|--------|-----|--------------------|-------|------------------|------|--------|--------|--------------|--------------------|-------|-------|------------------|------|------|----------------------------|-------|-------|-------|------------------|------|------|------|
| | Nomial Size | | | Actual Size (Inch) | | Actual Size (mm) | | | O-Ring | Encapsulated | Actual Size (Inch) | | | Actual Size (mm) | | | Actual Size (Inch) | | | | Actual Size (mm) | | | |
| | ID | OD | W | ID | C/S | ID | C/S | | | | ID | H | W | ID | H | W | ID | W | T | A | ID | W | T | A |
| -422 | 4 1/8 | 4 5/8 | 1/4 | 4.100 | 0.275 | 104.14 | 6.99 | ✓ | ✓ | ✓ | 4.100 | 0.265 | 0.265 | 104.14 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -423 | 4 1/4 | 4 3/4 | 1/4 | 4.225 | 0.275 | 107.32 | 6.99 | ✓ | ✓ | ✓ | 4.225 | 0.265 | 0.265 | 107.32 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -424 | 4 3/8 | 4 7/8 | 1/4 | 4.350 | 0.275 | 110.49 | 6.99 | ✓ | ✓ | ✓ | 4.350 | 0.265 | 0.265 | 110.49 | 6.73 | 6.73 | — | — | — | — | — | — | — | — |
| -425 | 4 1/2 | 5 | 1/4 | 4.475 | 0.275 | 113.67 | 6.99 | ✓ | ✓ | ✓ | 4.475 | 0.265 | 0.265 | 113.67 | 6.73 | 6.73 | 4.551 | 0.236 | 0.117 | 0.096 | 115.60 | 5.99 | 2.97 | 2.44 |
| -426 | 4 5/8 | 5 1/8 | 1/4 | 4.600 | 0.275 | 116.84 | 6.99 | ✓ | ✓ | ✓ | 4.600 | 0.265 | 0.265 | 116.84 | 6.73 | 6.73 | 4.676 | 0.236 | 0.117 | 0.096 | 118.77 | 5.99 | 2.97 | 2.44 |
| -427 | 4 3/4 | 4 | 1/4 | 4.725 | 0.275 | 120.02 | 6.99 | ✓ | ✓ | ✓ | 4.725 | 0.265 | 0.265 | 120.02 | 6.73 | 6.73 | 4.801 | 0.236 | 0.117 | 0.096 | 121.95 | 5.99 | 2.97 | 2.44 |
| -428 | 4 7/8 | 5 3/8 | 1/4 | 4.850 | 0.275 | 123.19 | 6.99 | ✓ | ✓ | ✓ | 4.850 | 0.265 | 0.265 | 123.19 | 6.73 | 6.73 | 4.926 | 0.236 | 0.117 | 0.096 | 125.12 | 5.99 | 2.97 | 2.44 |
| -429 | 5 | 5 1/2 | 1/4 | 4.975 | 0.275 | 126.37 | 6.99 | ✓ | ✓ | ✓ | 4.975 | 0.265 | 0.265 | 126.37 | 6.73 | 6.73 | 5.051 | 0.236 | 0.117 | 0.096 | 128.30 | 5.99 | 2.97 | 2.44 |
| -430 | 5 1/8 | 5 5/8 | 1/4 | 5.100 | 0.275 | 129.54 | 6.99 | ✓ | ✓ | ✓ | 5.100 | 0.265 | 0.265 | 129.54 | 6.73 | 6.73 | 5.176 | 0.236 | 0.117 | 0.096 | 131.47 | 5.99 | 2.97 | 2.44 |
| -431 | 5 1/4 | 5 3/4 | 1/4 | 5.225 | 0.275 | 132.72 | 6.99 | ✓ | ✓ | ✓ | 5.225 | 0.265 | 0.265 | 132.72 | 6.73 | 6.73 | 5.301 | 0.236 | 0.117 | 0.096 | 134.65 | 5.99 | 2.97 | 2.44 |
| -432 | 5 3/8 | 5 7/8 | 1/4 | 5.350 | 0.275 | 135.89 | 6.99 | ✓ | ✓ | ✓ | 5.350 | 0.265 | 0.265 | 135.89 | 6.73 | 6.73 | 5.426 | 0.236 | 0.117 | 0.096 | 137.82 | 5.99 | 2.97 | 2.44 |
| -433 | 5 1/2 | 6 | 1/4 | 5.475 | 0.275 | 139.07 | 6.99 | ✓ | ✓ | ✓ | 5.475 | 0.265 | 0.265 | 139.07 | 6.73 | 6.73 | 5.551 | 0.236 | 0.117 | 0.096 | 141.00 | 5.99 | 2.97 | 2.44 |
| -434 | 5 5/8 | 6 1/8 | 1/4 | 5.600 | 0.275 | 142.24 | 6.99 | ✓ | ✓ | ✓ | 5.600 | 0.265 | 0.265 | 142.24 | 6.73 | 6.73 | 5.676 | 0.236 | 0.117 | 0.096 | 144.17 | 5.99 | 2.97 | 2.44 |
| -435 | 5 3/4 | 6 1/4 | 1/4 | 5.725 | 0.275 | 145.42 | 6.99 | ✓ | ✓ | ✓ | 5.725 | 0.265 | 0.265 | 145.42 | 6.73 | 6.73 | 5.801 | 0.236 | 0.117 | 0.096 | 147.35 | 5.99 | 2.97 | 2.44 |
| -436 | 5 7/8 | 6 3/8 | 1/4 | 5.850 | 0.275 | 148.59 | 6.99 | ✓ | ✓ | ✓ | 5.850 | 0.265 | 0.265 | 148.59 | 6.73 | 6.73 | 5.926 | 0.236 | 0.117 | 0.096 | 150.52 | 5.99 | 2.97 | 2.44 |
| -437 | 6 | 6 1/2 | 1/4 | 5.975 | 0.275 | 151.77 | 6.99 | ✓ | ✓ | ✓ | 5.975 | 0.265 | 0.265 | 151.77 | 6.73 | 6.73 | 6.051 | 0.236 | 0.117 | 0.096 | 153.70 | 5.99 | 2.97 | 2.44 |
| -438 | 6 1/4 | 6 3/4 | 1/4 | 6.225 | 0.275 | 158.12 | 6.99 | ✓ | ✓ | ✓ | 6.225 | 0.265 | 0.265 | 158.12 | 6.73 | 6.73 | 6.274 | 0.236 | 0.117 | 0.096 | 159.36 | 5.99 | 2.97 | 2.44 |
| -439 | 6 1/2 | 7 | 1/4 | 6.475 | 0.275 | 164.47 | 6.99 | ✓ | ✓ | ✓ | 6.475 | 0.265 | 0.265 | 164.47 | 6.73 | 6.73 | 6.524 | 0.236 | 0.117 | 0.096 | 165.71 | 5.99 | 2.97 | 2.44 |
| -440 | 6 3/4 | 7 1/4 | 1/4 | 6.725 | 0.275 | 170.82 | 6.99 | ✓ | ✓ | ✓ | 6.725 | 0.265 | 0.265 | 170.82 | 6.73 | 6.73 | 6.774 | 0.236 | 0.117 | 0.096 | 172.06 | 5.99 | 2.97 | 2.44 |
| -441 | 7 | 7 1/2 | 1/4 | 6.975 | 0.275 | 177.17 | 6.99 | ✓ | ✓ | ✓ | 6.975 | 0.265 | 0.265 | 177.17 | 6.73 | 6.73 | 7.024 | 0.236 | 0.117 | 0.096 | 178.41 | 5.99 | 2.97 | 2.44 |
| -442 | 7 1/4 | 7 3/4 | 1/4 | 7.225 | 0.275 | 183.52 | 6.99 | ✓ | ✓ | ✓ | 7.225 | 0.265 | 0.265 | 183.52 | 6.73 | 6.73 | 7.274 | 0.236 | 0.117 | 0.096 | 184.76 | 5.99 | 2.97 | 2.44 |
| -443 | 7 1/2 | 8 | 1/4 | 7.475 | 0.275 | 189.87 | 6.99 | ✓ | ✓ | ✓ | 7.475 | 0.265 | 0.265 | 189.87 | 6.73 | 6.73 | 7.524 | 0.236 | 0.117 | 0.096 | 191.11 | 5.99 | 2.97 | 2.44 |
| -444 | 7 3/4 | 8 1/4 | 1/4 | 7.725 | 0.275 | 196.22 | 6.99 | ✓ | ✓ | ✓ | 7.725 | 0.265 | 0.265 | 196.22 | 6.73 | 6.73 | 7.774 | 0.236 | 0.117 | 0.096 | 197.46 | 5.99 | 2.97 | 2.44 |
| -445 | 8 | 8 1/2 | 1/4 | 7.975 | 0.275 | 202.57 | 6.99 | ✓ | ✓ | ✓ | 7.975 | 0.265 | 0.265 | 202.57 | 6.73 | 6.73 | 8.024 | 0.236 | 0.117 | 0.096 | 203.81 | 5.99 | 2.97 | 2.44 |
| -446 | 8 1/2 | 9 | 1/4 | 8.475 | 0.275 | 215.27 | 6.99 | ✓ | ✓ | ✓ | 8.475 | 0.265 | 0.265 | 215.27 | 6.73 | 6.73 | 8.524 | 0.236 | 0.117 | 0.096 | 216.51 | 5.99 | 2.97 | 2.44 |
| -447 | 9 | 9 1/2 | 1/4 | 8.975 | 0.275 | 227.97 | 6.99 | ✓ | ✓ | ✓ | 8.975 | 0.265 | 0.265 | 227.97 | 6.73 | 6.73 | 9.024 | 0.236 | 0.117 | 0.096 | 229.21 | 5.99 | 2.97 | 2.44 |
| -448 | 9 1/2 | 10 | 1/4 | 9.475 | 0.275 | 240.67 | 6.99 | ✓ | ✓ | ✓ | 9.475 | 0.265 | 0.265 | 240.67 | 6.73 | 6.73 | 9.524 | 0.236 | 0.117 | 0.096 | 241.91 | 5.99 | 2.97 | 2.44 |
| -449 | 10 | 10 1/2 | 1/4 | 9.975 | 0.275 | 253.37 | 6.99 | ✓ | ✓ | ✓ | 9.975 | 0.265 | 0.265 | 253.37 | 6.73 | 6.73 | 10.024 | 0.236 | 0.117 | 0.096 | 254.61 | 5.99 | 2.97 | 2.44 |
| -450 | 10 1/2 | 11 | 1/4 | 10.475 | 0.275 | 266.07 | 6.99 | ✓ | ✓ | ✓ | 10.475 | 0.265 | 0.265 | 266.07 | 6.73 | 6.73 | 10.524 | 0.236 | 0.117 | 0.096 | 267.31 | 5.99 | 2.97 | 2.44 |
| -451 | 11 | 11 1/2 | 1/4 | 10.975 | 0.275 | 278.77 | 6.99 | ✓ | ✓ | ✓ | 10.975 | 0.265 | 0.265 | 278.77 | 6.73 | 6.73 | 11.024 | 0.236 | 0.117 | 0.096 | 280.01 | 5.99 | 2.97 | 2.44 |
| -452 | 11 1/2 | 12 | 1/4 | 11.475 | 0.275 | 291.47 | 6.99 | ✓ | ✓ | ✓ | 11.475 | 0.265 | 0.265 | 291.47 | 6.73 | 6.73 | 11.524 | 0.236 | 0.117 | 0.096 | 292.71 | 5.99 | 2.97 | 2.44 |
| -453 | 12 | 12 1/2 | 1/4 | 11.975 | 0.275 | 304.17 | 6.99 | ✓ | ✓ | ✓ | 11.975 | 0.265 | 0.265 | 304.17 | 6.73 | 6.73 | 12.024 | 0.236 | 0.117 | 0.096 | 305.41 | 5.99 | 2.97 | 2.44 |

●Reference: ✓: Indicate EK available —: Indicate EK unavailable ●X-Ring, Hollow O-Ring cord,

Encapsulated O-Ring/FEP O-Ring inside diameter/ cross section is the same as that of O-Ring



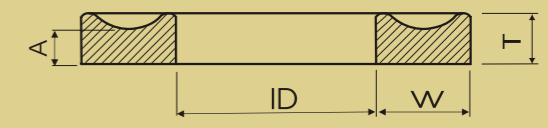
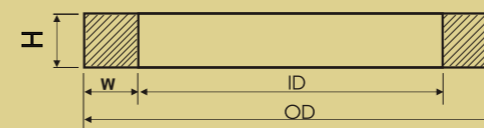
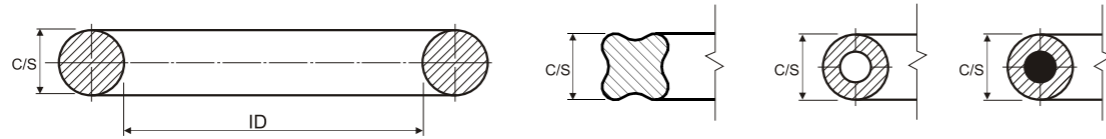
| AS568 NO. | Nomial Size | | | O-Ring | | | | X-Ring | Hollow | FEP | Rubber Washer | | | | | | Rubber Back-Up(80 Shore A) | | | | | | | |
|-----------|-------------|--------|-----|--------------------|-------|------------------|------|--------|--------|--------------|--------------------|-------|-------|------------------|------|------|----------------------------|-------|-------|-------|------------------|------|------|------|
| | Nomial Size | | | Actual Size (Inch) | | Actual Size (mm) | | | O-Ring | Encapsulated | Actual Size (Inch) | | | Actual Size (mm) | | | Actual Size (Inch) | | | | Actual Size (mm) | | | |
| | ID | OD | W | ID | C/S | ID | C/S | | | | ID | H | W | ID | H | W | ID | W | T | A | ID | W | T | A |
| -454 | 12 1/2 | 13 | 1/4 | 12.475 | 0.275 | 316.87 | 6.99 | ✓ | ✓ | ✓ | 12.475 | 0.265 | 0.265 | 316.87 | 6.73 | 6.73 | 12.524 | 0.236 | 0.117 | 0.096 | 318.11 | 5.99 | 2.97 | 2.44 |
| -455 | 13 | 13 1/2 | 1/4 | 12.975 | 0.275 | 329.57 | 6.99 | ✓ | ✓ | ✓ | 12.975 | 0.265 | 0.265 | 329.57 | 6.73 | 6.73 | 13.024 | 0.236 | 0.117 | 0.096 | 330.81 | 5.99 | 2.97 | 2.44 |
| -456 | 13 1/2 | 14 | 1/4 | 13.475 | 0.275 | 342.27 | 6.99 | ✓ | ✓ | ✓ | 13.475 | 0.265 | 0.265 | 342.27 | 6.73 | 6.73 | 13.524 | 0.236 | 0.117 | 0.096 | 343.51 | 5.99 | 2.97 | 2.44 |
| -457 | 14 | 14 1/2 | 1/4 | 13.975 | 0.275 | 354.97 | 6.99 | ✓ | ✓ | ✓ | 13.975 | 0.265 | 0.265 | 354.97 | 6.73 | 6.73 | 14.024 | 0.236 | 0.117 | 0.096 | 356.21 | 5.99 | 2.97 | 2.44 |
| -458 | 14 1/2 | 15 | 1/4 | 14.475 | 0.275 | 367.67 | 6.99 | ✓ | ✓ | ✓ | 14.475 | 0.265 | 0.265 | 367.67 | 6.73 | 6.73 | 14.524 | 0.236 | 0.117 | 0.096 | 368.91 | 5.99 | 2.97 | 2.44 |
| -459 | 15 | 15 1/2 | 1/4 | 14.975 | 0.275 | 380.37 | 6.99 | ✓ | ✓ | ✓ | 14.975 | 0.265 | 0.265 | 380.37 | 6.73 | 6.73 | 15.024 | 0.236 | 0.117 | 0.096 | 381.61 | 5.99 | 2.97 | 2.44 |
| -460 | 15 1/2 | 16 | 1/4 | 15.475 | 0.275 | 393.07 | 6.99 | ✓ | ✓ | ✓ | 15.475 | 0.265 | 0.265 | 393.07 | 6.73 | 6.73 | 15.524 | 0.236 | 0.117 | 0.096 | 394.31 | 5.99 | 2.97 | 2.44 |
| -461 | 16 | 16 1/2 | 1/4 | 15.955 | 0.275 | 405.26 | 6.99 | ✓ | ✓ | ✓ | 15.955 | 0.265 | 0.265 | 405.26 | 6.73 | 6.73 | 16.004 | 0.236 | 0.117 | 0.096 | 406.50 | 5.99 | 2.97 | 2.44 |
| -462 | 16 1/2 | 17 | 1/4 | 16.455 | 0.275 | 417.96 | 6.99 | ✓ | ✓ | ✓ | 16.455 | 0.265 | 0.265 | 417.96 | 6.73 | 6.73 | 16.504 | 0.236 | 0.117 | 0.096 | 419.20 | 5.99 | 2.97 | 2.44 |
| -463 | 17 | 17 1/2 | 1/4 | 16.955 | 0.275 | 430.66 | 6.99 | ✓ | ✓ | ✓ | 16.955 | 0.265 | 0.265 | 430.66 | 6.73 | 6.73 | 17.004 | 0.236 | 0.117 | 0.096 | 431.90 | 5.99 | 2.97 | 2.44 |
| -464 | 17 1/2 | 18 | 1/4 | 17.455 | 0.275 | 443.36 | 6.99 | ✓ | ✓ | ✓ | 17.455 | 0.265 | 0.265 | 443.36 | 6.73 | 6.73 | 17.504 | 0.236 | 0.117 | 0.096 | 444.60 | 5.99 | 2.97 | 2.44 |
| -465 | 18 | 18 1/2 | 1/4 | 17.955 | 0.275 | 456.06 | 6.99 | ✓ | ✓ | ✓ | 17.955 | 0.265 | 0.265 | 456.06 | 6.73 | 6.73 | 18.004 | 0.236 | 0.117 | 0.096 | 457.30 | 5.99 | 2.97 | 2.44 |
| -466 | 18 1/2 | 19 | 1/4 | 18.455 | 0.275 | 468.76 | 6.99 | ✓ | ✓ | ✓ | 18.455 | 0.265 | 0.265 | 468.76 | 6.73 | 6.73 | 18.504 | 0.236 | 0.117 | 0.096 | 470.00 | 5.99 | 2.97 | 2.44 |
| -467 | 19 | 19 1/2 | 1/4 | 18.955 | 0.275 | 481.46 | 6.99 | ✓ | ✓ | ✓ | 18.955 | 0.265 | 0.265 | 481.46 | 6.73 | 6.73 | 19.004 | 0.236 | 0.117 | 0.096 | 482.70 | 5.99 | 2.97 | 2.44 |
| -468 | 19 1/2 | 20 | 1/4 | 19.455 | 0.275 | 494.16 | 6.99 | ✓ | ✓ | ✓ | 19.455 | 0.265 | 0.265 | 494.16 | 6.73 | 6.73 | 19.504 | 0.236 | 0.117 | 0.096 | 495.40 | 5.99 | 2.97 | 2.44 |
| -469 | 20 | 20 1/2 | 1/4 | 19.955 | 0.275 | 506.86 | 6.99 | ✓ | ✓ | ✓ | 19.955 | 0.265 | 0.265 | 506.86 | 6.73 | 6.73 | 20.004 | 0.236 | 0.117 | 0.096 | 508.10 | 5.99 | 2.97 | 2.44 |
| -470 | 21 | 21 1/2 | 1/4 | 20.955 | 0.275 | 532.26 | 6.99 | ✓ | ✓ | ✓ | 20.955 | 0.265 | 0.265 | 532.26 | 6.73 | 6.73 | 21.004 | 0.236 | 0.117 | 0.096 | 533.50 | 5.99 | 2.97 | 2.44 |
| -471 | 22 | 22 1/2 | 1/4 | 21.955 | 0.275 | 557.66 | 6.99 | ✓ | ✓ | ✓ | 21.955 | 0.265 | 0.265 | 557.66 | 6.73 | 6.73 | 22.004 | 0.236 | 0.117 | 0.096 | 558.90 | 5.99 | 2.97 | 2.44 |
| -472 | 23 | 23 1/2 | 1/4 | 22.940 | 0.275 | 582.68 | 6.99 | ✓ | ✓ | ✓ | 22.940 | 0.265 | 0.265 | 582.68 | 6.73 | 6.73 | 23.004 | 0.236 | 0.117 | 0.096 | 584.30 | 5.99 | 2.97 | 2.44 |
| -473 | 24 | 24 1/2 | 1/4 | 23.940 | 0.275 | 608.08 | 6.99 | ✓ | ✓ | ✓ | 23.940 | 0.265 | 0.265 | 608.08 | 6.73 | 6.73 | 24.004 | 0.236 | 0.117 | 0.096 | 609.70 | 5.99 | 2.97 | 2.44 |
| -474 | 25 | 25 1/2 | 1/4 | 24.940 | 0.275 | 633.48 | 6.99 | ✓ | ✓ | ✓ | 24.940 | 0.265 | 0.265 | 633.48 | 6.73 | 6.73 | 25.004 | 0.236 | 0.117 | 0.096 | 635.10 | 5.99 | 2.97 | 2.44 |
| -475 | 26 | 16 1/2 | 1/4 | 25.940 | 0.275 | 658.88 | 6.99 | ✓ | ✓ | ✓ | 25.940 | 0.265 | 0.265 | 658.88 | 6.73 | 6.73 | 26.004 | 0.236 | 0.117 | 0.096 | 660.50 | 5.99 | 2.97 | 2.44 |

(Tube Size) O-Ring for Tube Fitting Bosses

| | | | | | | | | | | | | | | | | | | | | | | |
|------|------|-------|-------|-------|------|---|---|---|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|------|------|------|
| -901 | 3/32 | 0.185 | 0.056 | 4.70 | 1.42 | — | — | ✓ | 0.185 | 0.053 | 0.053 | 4.70 | 1.34 | 1.34 | 0.213 | 0.042 | 0.039 | 0.033 | 5.40 | 1.07 | 0.99 | 0.85 |
| -902 | 1/8 | 0.239 | 0.064 | 6.07 | 1.63 | — | — | ✓ | 0.239 | 0.061 | 0.061 | 6.07 | 1.54 | 1.54 | 0.267 | 0.048 | 0.045 | 0.039 | 6.77 | 1.22 | 1.14 | 0.98 |
| -903 | 3/16 | 0.300 | 0.064 | 7.65 | 1.63 | ✓ | — | ✓ | 0.300 | 0.061 | 0.061 | 7.65 | 1.54 | 1.54 | 0.329 | 0.048 | 0.045 | 0.039 | 8.35 | 1.22 | 1.14 | 0.98 |
| -904 | 1/4 | 0.351 | 0.072 | 8.92 | 1.83 | ✓ | — | ✓ | 0.351 | 0.068 | 0.068 | 8.92 | 1.73 | 1.73 | 0.379 | 0.054 | 0.050 | 0.043 | 9.62 | 1.37 | 1.28 | 1.10 |
| -905 | 5/16 | 0.414 | 0.072 | 10.52 | 1.83 | ✓ | — | ✓ | 0.414 | 0.074 | 0.074 | 10.52 | 1.73 | 1.73 | 0.442 | 0.054 | 0.050 | 0.043 | 11.22 | 1.37 | 1.28 | 1.10 |
| -906 | 3/8 | 0.468 | 0.078 | 11.89 | 1.98 | ✓ | — | ✓ | 0.468 | 0.078 | 0.078 | 11.89 | 1.88 | 1.88 | 0.496 | 0.059 | 0.055 | 0.047 | 12.59 | 1.49 | 1.39 | 1.19 |
| -907 | 7/16 | 0.530 | 0.082 | 13.46 | 2.08 | ✓ | — | ✓ | 0.530 | 0.083 | 0.083 | 13.46 | 1.97 | 1.97 | 0.562 | 0.065 | 0.048 | 0.044 | 14.27 | 1.66 | 1.22 | 1.11 |
| -908 | 1/2 | 0.644 | 0.087 | 16.36 | 2.21 | ✓ | — | ✓ | 0.644 | 0.093 | 0.093 | 16.36 | 2.10 | 2.10 | 0.676 | 0.070 | 0.052 | 0.047 | 17.16 | 1.77 | 1.32 | 1.20 |

●Reference: ✓: Indicate EK available —: Indicate EK unavailable ●X-Ring, Hollow O-Ring cord,

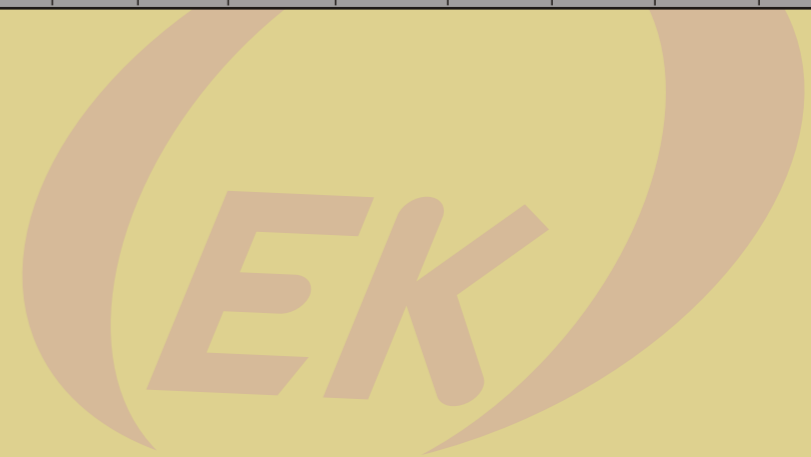
Encapsulated O-Ring/FEP O-Ring inside diameter/ cross section is the same as that of O-Ring



| AS568 NO. | Nomial Size | | | O-Ring | | | | X-Ring | Hollow | FEP | Rubber Washer | | | | | | Rubber Back-Up(80 Shore A) | | | | | | | |
|-----------|--------------------|----|---|--------------------|-------|------------------|------|--------|--------|--------------|---------------------------------------|-------|-------|------------------|------|------|----------------------------|-------|-------|------------------|-------|------|------|------|
| | Nomial Size | | | Actual Size (Inch) | | Actual Size (mm) | | | O-Ring | Encapsulated | Actual Size (Inch) | | | Actual Size (mm) | | | Actual Size (Inch) | | | Actual Size (mm) | | | | |
| | ID | OD | W | ID | C/S | ID | C/S | | | | ID | H | W | ID | H | W | ID | W | T | A | ID | W | T | A |
| | (Tube Size) | | | | | | | | | | O-Ring for Tube Fitting Bosses | | | | | | | | | | | | | |
| -909 | 9/16 | | | 0.706 | 0.097 | 17.93 | 2.46 | ✓ | — | ✓ | 0.706 | 0.093 | 0.093 | 17.93 | 2.35 | 2.35 | 0.738 | 0.078 | 0.053 | 0.048 | 18.74 | 1.97 | 1.35 | 1.23 |
| -910 | 5/8 | | | 0.755 | 0.097 | 19.18 | 2.46 | ✓ | — | ✓ | 0.755 | 0.093 | 0.093 | 19.18 | 2.35 | 2.35 | 0.787 | 0.078 | 0.053 | 0.048 | 19.98 | 1.97 | 1.35 | 1.23 |
| -911 | 11/16 | | | 0.863 | 0.116 | 21.92 | 2.95 | ✓ | ✓ | ✓ | 0.863 | 0.093 | 0.093 | 21.92 | 2.82 | 2.82 | 0.894 | 0.093 | 0.064 | 0.058 | 22.72 | 2.36 | 1.62 | 1.48 |
| -912 | 3/4 | | | 0.924 | 0.116 | 23.47 | 2.95 | ✓ | ✓ | ✓ | 0.924 | 0.111 | 0.111 | 23.47 | 2.82 | 2.82 | 0.956 | 0.093 | 0.064 | 0.058 | 24.27 | 2.36 | 1.62 | 1.48 |
| -913 | 13/16 | | | 0.986 | 0.116 | 25.04 | 2.95 | ✓ | ✓ | ✓ | 0.986 | 0.111 | 0.111 | 25.04 | 2.82 | 2.82 | 1.017 | 0.093 | 0.064 | 0.058 | 25.84 | 2.36 | 1.62 | 1.48 |
| -914 | 7/8 | | | 1.047 | 0.116 | 26.59 | 2.95 | ✓ | ✓ | ✓ | 1.047 | 0.111 | 0.111 | 26.59 | 2.82 | 2.82 | 1.079 | 0.093 | 0.064 | 0.058 | 27.40 | 2.36 | 1.62 | 1.48 |
| -916 | 1 | | | 1.171 | 0.116 | 29.74 | 2.95 | ✓ | ✓ | ✓ | 1.171 | 0.111 | 0.111 | 29.74 | 2.82 | 2.82 | 1.203 | 0.093 | 0.064 | 0.058 | 30.55 | 2.36 | 1.62 | 1.48 |
| -918 | 1 1/8 | | | 1.335 | 0.116 | 34.42 | 2.95 | ✓ | ✓ | ✓ | 1.335 | 0.111 | 0.111 | 34.42 | 2.82 | 2.82 | 1.387 | 0.093 | 0.064 | 0.058 | 35.22 | 2.36 | 1.62 | 1.48 |
| -920 | 1 1/4 | | | 1.475 | 0.118 | 37.47 | 3.00 | ✓ | ✓ | ✓ | 1.475 | 0.113 | 0.113 | 37.47 | 2.87 | 2.87 | 1.506 | 0.094 | 0.065 | 0.059 | 38.26 | 2.40 | 1.65 | 1.50 |
| -924 | 1 1/2 | | | 1.720 | 0.118 | 43.69 | 3.00 | ✓ | ✓ | ✓ | 1.720 | 0.113 | 0.113 | 43.69 | 2.87 | 2.87 | 1.751 | 0.094 | 0.065 | 0.059 | 44.48 | 2.40 | 1.65 | 1.50 |
| -928 | 1 3/4 | | | 2.090 | 0.118 | 53.09 | 3.00 | ✓ | ✓ | ✓ | 2.090 | 0.113 | 0.113 | 53.09 | 2.87 | 2.87 | 2.122 | 0.094 | 0.065 | 0.059 | 53.89 | 2.40 | 1.65 | 1.50 |
| -932 | 2 | | | 2.337 | 0.118 | 59.36 | 3.00 | ✓ | ✓ | ✓ | 2.337 | 0.113 | 0.113 | 59.36 | 2.87 | 2.87 | 2.369 | 0.094 | 0.065 | 0.059 | 60.16 | 2.40 | 1.65 | 1.50 |

●Reference: ✓: Indicate EK available —: Indicate EK unavailable

●X-Ring, Hollow O-Ring cord, Encapsulated O-Ring/FEP O-Ring inside diameter/ cross section is the same as that of O-Ring





| | | | | | |
|------------|----------|------------|----------|------------|----------|
| 14.5 X 0.4 | 15 X 0.4 | 15.5 X 0.4 | 16 X 0.4 | 16.5 X 0.4 | 17 X 0.4 |
| 17.5 X 0.4 | 18 X 0.4 | 18.5 X 0.4 | 19 X 0.4 | 19.5 X 0.4 | 20 X 0.4 |
| 20.5 X 0.4 | 21 X 0.4 | 21.5 X 0.4 | 22 X 0.4 | 22.5 X 0.4 | 23 X 0.4 |
| 23.5 X 0.4 | 24 X 0.4 | 24.5 X 0.4 | 25 X 0.4 | 25.5 X 0.4 | 26 X 0.4 |
| 26.5 X 0.4 | 27 X 0.4 | 27.5 X 0.4 | 28 X 0.4 | 28.5 X 0.4 | 29 X 0.4 |
| 29.5 X 0.4 | 30 X 0.4 | 30.5 X 0.4 | 31 X 0.4 | 31.5 X 0.4 | 32 X 0.4 |

| | | | | | |
|------------|----------|------------|----------|------------|----------|
| 14.5 X 0.5 | 15 X 0.5 | 15.5 X 0.5 | 16 X 0.5 | 16.5 X 0.5 | 17 X 0.5 |
| 17.5 X 0.5 | 18 X 0.5 | 18.5 X 0.5 | 19 X 0.5 | 19.5 X 0.5 | 20 X 0.5 |
| 20.5 X 0.5 | 21 X 0.5 | 21.5 X 0.5 | 22 X 0.5 | 22.5 X 0.5 | 23 X 0.5 |
| 23.5 X 0.5 | 24 X 0.5 | 24.5 X 0.5 | 25 X 0.5 | 25.5 X 0.5 | 26 X 0.5 |
| 26.5 X 0.5 | 27 X 0.5 | 27.5 X 0.5 | 28 X 0.5 | 28.5 X 0.5 | 29 X 0.5 |
| 29.5 X 0.5 | 30 X 0.5 | 30.5 X 0.5 | 31 X 0.5 | 31.5 X 0.5 | 32 X 0.5 |

| | | | | | |
|------------|----------|------------|----------|------------|----------|
| 14.5 X 0.6 | 15 X 0.6 | 15.5 X 0.6 | 16 X 0.6 | 16.5 X 0.6 | 17 X 0.6 |
| 17.5 X 0.6 | 18 X 0.6 | 18.5 X 0.6 | 19 X 0.6 | 19.5 X 0.6 | 20 X 0.6 |
| 20.5 X 0.6 | 21 X 0.6 | 21.5 X 0.6 | 22 X 0.6 | 22.5 X 0.6 | 23 X 0.6 |
| 23.5 X 0.6 | 24 X 0.6 | 24.5 X 0.6 | 25 X 0.6 | 25.5 X 0.6 | 26 X 0.6 |
| 26.5 X 0.6 | 27 X 0.6 | 27.5 X 0.6 | 28 X 0.6 | 28.5 X 0.6 | 29 X 0.6 |
| 29.5 X 0.6 | 30 X 0.6 | 30.5 X 0.6 | 31 X 0.6 | 31.5 X 0.6 | 32 X 0.6 |

| | | | | | |
|------------|----------|------------|----------|------------|----------|
| 14.5 X 0.7 | 15 X 0.7 | 15.5 X 0.7 | 16 X 0.7 | 16.5 X 0.7 | 17 X 0.7 |
| 17.5 X 0.7 | 18 X 0.7 | 18.5 X 0.7 | 19 X 0.7 | 19.5 X 0.7 | 20 X 0.7 |
| 20.5 X 0.7 | 21 X 0.7 | 21.5 X 0.7 | 22 X 0.7 | 22.5 X 0.7 | 23 X 0.7 |
| 23.5 X 0.7 | 24 X 0.7 | 24.5 X 0.7 | 25 X 0.7 | 25.5 X 0.7 | 26 X 0.7 |
| 26.5 X 0.7 | 27 X 0.7 | 27.5 X 0.7 | 28 X 0.7 | 28.5 X 0.7 | 29 X 0.7 |
| 29.5 X 0.7 | 30 X 0.7 | 30.5 X 0.7 | 31 X 0.7 | 31.5 X 0.7 | 32 X 0.7 |

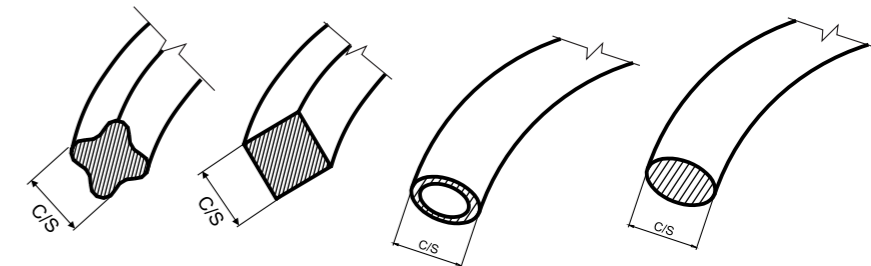
| | | | | | |
|------------|----------|------------|----------|------------|----------|
| 14.5 X 0.8 | 15 X 0.8 | 15.5 X 0.8 | 16 X 0.8 | 16.5 X 0.8 | 17 X 0.8 |
| 17.5 X 0.8 | 18 X 0.8 | 18.5 X 0.8 | 19 X 0.8 | 19.5 X 0.8 | 20 X 0.8 |
| 20.5 X 0.8 | 21 X 0.8 | 21.5 X 0.8 | 22 X 0.8 | 22.5 X 0.8 | 23 X 0.8 |
| 23.5 X 0.8 | 24 X 0.8 | 24.5 X 0.8 | 25 X 0.8 | 25.5 X 0.8 | 26 X 0.8 |
| 26.5 X 0.8 | 27 X 0.8 | 27.5 X 0.8 | 28 X 0.8 | 28.5 X 0.8 | 29 X 0.8 |
| 29.5 X 0.8 | 30 X 0.8 | 30.5 X 0.8 | 31 X 0.8 | 31.5 X 0.8 | 32 X 0.8 |

| | | |
|------------|------------|------------|
| 13.0 X 0.4 | 13.5 X 0.4 | 14.5 X 0.4 |
| 13.0 X 0.5 | 13.5 X 0.5 | 14.5 X 0.5 |
| 13.0 X 0.6 | 13.5 X 0.6 | 14.5 X 0.6 |



GB/T3672.1-2002

| EK NO. | C/S(mm) | C/S Tol± |
|----------------------|---------|----------|
| M0120B | 1.2 | ±0.25 |
| M0150B | 1.5 | ±0.25 |
| M0160B | 1.6 | ±0.35 |
| M0178B | 1.78 | ±0.35 |
| M0190B | 1.9 | ±0.35 |
| M0200B | 2 | ±0.35 |
| M0240B | 2.4 | ±0.35 |
| M0250B | 2.5 | ±0.35 |
| M0262B | 2.62 | ±0.40 |
| M0300B | 3 | ±0.40 |
| M0350B | 3.5 | ±0.40 |
| M0400B | 4 | ±0.40 |
| M0450B | 4.5 | ±0.50 |
| M0500B | 5 | ±0.50 |
| M0534B | 5.34 | ±0.50 |
| M0550B | 5.5 | ±0.50 |
| M0570B | 5.7 | ±0.50 |
| M0600B | 6.0 | ±0.50 |
| M0650B | 6.5 | ±0.70 |
| M0699B | 6.99 | ±0.70 |
| M0700B | 7 | ±0.70 |
| M0750B | 7.5 | ±0.70 |
| M0800B | 8 | ±0.70 |
| M0840B | 8.4 | ±0.70 |
| M0850B | 8.5 | ±0.70 |
| M0900B | 9 | ±0.70 |
| M0950B | 9.5 | ±0.70 |
| M1000B | 10 | ±0.70 |
| M1100B | 11 | ±0.80 |
| M1200B | 12 | ±0.80 |
| M1270B | 12.7 | ±0.80 |
| M1300B | 13 | ±0.80 |
| M1400B | 14 | ±0.80 |
| M1500B | 15 | ±0.80 |
| M1600B | 16 | ±0.80 |
| M1700B | 17 | ±1.00 |
| M1800B | 18 | ±1.00 |
| M1900B | 19 | ±1.00 |
| M2000B | 20 | ±1.00 |
| M2100B | 21 | ±1.00 |
| M2200B | 22 | ±1.00 |
| M2300B | 23 | ±1.00 |
| M2400B | 24 | ±1.00 |
| M2500B | 25 | ±1.00 |
| Other Size Available | | |



Rubber Cord is mainly used to seal the large equipment such as doors, windows, etc. or stick together to form O-ring of any ID.

- Note:**
1. Products with circular, rectangular, stellar and hollow cross section is available.
 2. Star(Quad) cross section more than 1.78mm is available.(Quad-ring with the C/S ≥ 1.78mm is available)

● Circular rubber cord (NBR, 70 Shore A, Black; Silicone 70 Shore A, Black; FKM 75 Shore A, Black) has stock available.



Repair Kit contains o-ring/x-ring/rubber washer of 18 to 32 kinds of sizes in materials of NBR 70 shore A, VMQ 70 Shore A, and FKM 75 shore A. Repair Kits are necessary tools for mechanical repair.



| EK Standard | | | Item/Q'ty | Standard |
|------------------|------------------|------------------|-------------|-----------------|
| O-RING | X-RING | WASHER | | |
| KN70-145320WFCCB | ————— | KN70Q145320WFCCB | 180/720PCS. | Watc Repair kit |
| KN70-18225ASDCCB | KN70X18225ASDCCB | KN70Q18225ASDCCB | 18/225PCS. | AS568 |
| KN70-18225CNDCCB | KN70X18225CNDCCB | KN70Q18225CNDCCB | 18/225PCS. | China(92) |
| KN70-18225MMDCCB | KN70X18225MMDCCB | KN70Q18225MMDCCB | 18/225PCS. | Metric Size |
| KN70-20210CNBAAB | KN70X20210CNBAAB | KN70Q20210CNBAAB | 20/210PCS. | China(92) |
| KN90-20212ASBAAB | ————— | KN90Q20212ASBAAB | 20/212PCS. | AS568 |
| KN70-30382ASCYYB | KN70X30382ASCYYB | KN70Q30382ASCYYB | 30/382PCS. | AS568 |
| KN70-30372CNCYYB | KN70X30372CNCYYB | KN70Q30372CNCYYB | 30/372PCS. | China(92) |
| KN70-30347MMCYYB | KN70X30347MMCYYB | KN70Q30347MMCYYB | 30/347PCS. | Metric Size |
| KN70-30386MMCYYB | KN70X30386MMCYYB | KN70Q30386MMCYYB | 30/386PCS. | Metric Size |
| KN70-30391PGCYYB | KN70X30391PGCYYB | KN70Q30391PGCYYB | 30/391PCS. | Japen(P&G) |
| KN70-32390CNERRB | KN70X32390CNERRB | KN70Q32390CNERRB | 32/390PCS. | China(92) |
| KN70-32407ASERRB | KN70X32407ASERRB | KN70Q32407ASERRB | 32/407PCS. | AS568 |
| KN70-32426MMERRB | KN70X32426MMERRB | KN70Q32426MMERRB | 32/426PCS. | Metric Size |
| KN70-32563MMERRB | KN70X32563MMERRB | KN70Q32563MMERRB | 32/563PCS. | Metric Size |



Kit-D



Kit-B



Kit-C



Kit-E



O-RING KIT KN70-18225ASDCCB
 X-RING KIT KN70X18225ASDCCB
 WASHER KIT KN70Q18225ASDCCB

| AS568 Dash NO | Quantity in kit | AS568 Dash NO | Quantity in kit |
|---------------|-----------------|---------------|-----------------|
| 006 | 20 | 110 | 10 |
| 007 | 20 | 111 | 10 |
| 008 | 20 | 112 | 10 |
| 009 | 15 | 113 | 10 |
| 010 | 15 | 114 | 10 |
| 011 | 15 | 115 | 10 |
| 012 | 10 | 116 | 10 |
| 014 | 10 | 210 | 10 |
| 016 | 10 | 211 | 10 |

Q'ty:18 Sizes/225 pcs Volume:211X127X35(mm)
 Plastic Box:#D Weight:226g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

O-RING KIT KN70-18225CNDCCB
 X-RING KIT KN70X18225CNDCCB
 WASHER KIT KN70Q18225CNDCCB

| (Size) (mm) | Quantity in kit | (Size) (mm) | Quantity in kit |
|-------------|-----------------|--------------|-----------------|
| 2.80 X 1.8 | 20 | 10.00 X 2.65 | 10 |
| 3.75 X 1.8 | 20 | 10.60 X 2.65 | 10 |
| 4.50 X 1.8 | 20 | 12.50 X 2.65 | 10 |
| 5.30 X 1.8 | 15 | 14.00 X 2.65 | 10 |
| 6.00 X 1.8 | 15 | 16.00 X 2.65 | 10 |
| 7.50 X 1.8 | 15 | 17.00 X 2.65 | 10 |
| 9.50 X 1.8 | 10 | 19.00 X 2.65 | 10 |
| 12.50 X 1.8 | 10 | 19.00 X 3.55 | 10 |
| 16.00 X 1.8 | 10 | 20.00 X 3.55 | 10 |

Q'ty:18 Sizes/225 pcs Volume:211X127X35(mm)
 Plastic Box:#D Weight:200g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

O-RING KIT KN90-20212ASBAAB
 WASHER KIT KN90Q20212ASBAAB

| AS568 Dash NO | TUBE O.D. (Ref inch) | Actual Size Per AS568(mm) | | | | Quantity in kit |
|---------------|----------------------|---------------------------|------|-------|------|-----------------|
| | | I/D | C/S | I/D | C/S | |
| 901 | 3/32 | 4.70 | 1.42 | 0.185 | .056 | 10 |
| 902 | 1/8 | 6.07 | 1.63 | 0.239 | .064 | 10 |
| 903 | 3/16 | 7.65 | 1.63 | 0.301 | .064 | 10 |
| 904 | 1/4 | 8.92 | 1.83 | 0.351 | .072 | 10 |
| 905 | 5/16 | 10.52 | 1.83 | 0.414 | .072 | 12 |
| 906 | 3/8 | 11.89 | 1.98 | 0.468 | .078 | 12 |
| 907 | 7/16 | 13.46 | 2.08 | 0.530 | .082 | 12 |
| 908 | 1/2 | 16.36 | 2.21 | 0.644 | .087 | 12 |
| 909 | 9/16 | 17.93 | 2.46 | 0.706 | .097 | 12 |
| 910 | 5/8 | 19.18 | 2.46 | 0.755 | .097 | 12 |
| 911 | 11/16 | 21.92 | 2.95 | 0.863 | .116 | 10 |
| 912 | 3/4 | 23.47 | 2.95 | 0.924 | .116 | 10 |
| 913 | 13/16 | 25.04 | 2.95 | 0.986 | .116 | 10 |
| 914 | 7/8 | 26.59 | 2.95 | 1.047 | .116 | 10 |
| 916 | 1 | 29.74 | 2.95 | 1.171 | .116 | 10 |
| 918 | 1-1/8 | 34.42 | 2.95 | 1.355 | .116 | 10 |
| 920 | 1-1/4 | 37.47 | 3.00 | 1.475 | .118 | 10 |
| 924 | 1-1/2 | 43.69 | 3.00 | 1.720 | .118 | 10 |
| 928 | 1-3/4 | 53.09 | 3.00 | 2.090 | .118 | 10 |
| 932 | 2 | 59.36 | 3.00 | 2.337 | .118 | 10 |

Q'ty:20 Sizes/212 pcs Volume:246X165X41(mm)
 Plastic Box:#B Weight:500g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

O-RING KIT KN70-30382ASCYYB
 X-RING KIT KN70X30382ASCYYB
 WASHER KIT KN70Q30382ASCYYB

| AS568 Dash NO | Quantity in kit | AS568 Dash NO | Quantity in kit |
|---------------|-----------------|---------------|-----------------|
| 006 | 20 | 211 | 10 |
| 007 | 20 | 212 | 10 |
| 008 | 20 | 213 | 10 |
| 009 | 20 | 214 | 10 |
| 010 | 20 | 215 | 10 |
| 011 | 20 | 216 | 10 |
| 012 | 20 | 217 | 10 |
| 110 | 13 | 218 | 10 |
| 111 | 13 | 219 | 10 |
| 112 | 13 | 220 | 10 |
| 113 | 13 | 221 | 10 |
| 114 | 13 | 222 | 10 |
| 115 | 13 | 325 | 7 |
| 116 | 13 | 326 | 7 |
| 210 | 10 | 327 | 7 |

Q'ty:30 Sizes/382 pcs Volume:259X191X51(mm)
 Plastic Box:#C Weight:790g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

O-RING KIT KN70-18225MMDCCB
 X-RING KIT KN70X18225MMDCCB
 WASHER KIT KN70Q18225MMDCCB

| (Size) (mm) | Quantity in kit | (Size) (mm) | Quantity in kit |
|-------------|-----------------|-------------|-----------------|
| 3 X 2.0 | 20 | 10 X 2.5 | 10 |
| 4 X 2.0 | 20 | 11 X 2.5 | 10 |
| 5 X 2.0 | 20 | 12 X 2.5 | 10 |
| 6 X 2.0 | 15 | 14 X 2.5 | 10 |
| 7 X 2.0 | 15 | 16 X 2.5 | 10 |
| 8 X 2.0 | 15 | 17 X 2.5 | 10 |
| 10 X 2.0 | 10 | 19 X 2.5 | 10 |
| 12 X 2.0 | 10 | 19 X 3.0 | 10 |
| 14 X 2.0 | 10 | 20 X 3.0 | 10 |

Q'ty:18 Sizes/225 pcs Volume:211X127X35(mm)
 Plastic Box:#D Weight:213g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

O-RING KIT KN70-20210CNBAAB
 X-RING KIT KN70X20210CNBAAB
 WASHER KIT KN70Q20210CNBAAB

| (Size) (mm) | Quantity in kit | (Size) (mm) | Quantity in kit |
|--------------|-----------------|--------------|-----------------|
| 4.50 X 1.80 | 8 | 21.20 X 2.65 | 12 |
| 6.00 X 1.80 | 8 | 23.60 X 2.65 | 12 |
| 7.50 X 1.80 | 8 | 25.00 X 2.65 | 12 |
| 8.75 X 1.80 | 10 | 26.50 X 2.65 | 12 |
| 10.60 X 1.80 | 12 | 30.00 X 2.65 | 12 |
| 12.50 X 1.80 | 12 | 34.50 X 2.65 | 12 |
| 14.00 X 1.80 | 12 | 35.50 X 3.55 | 8 |
| 17.00 X 1.80 | 12 | 42.30 X 3.55 | 8 |
| 17.00 X 2.65 | 12 | 51.50 X 3.55 | 8 |
| 18.00 X 2.65 | 12 | 58.00 X 3.55 | 8 |

Q'ty:20 Sizes/210 pcs Volume:246X165X41(mm)
 Plastic Box:#B Weight:440g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

O-RING KIT KN70-30372CNCYYB
 X-RING KIT KN70X30372CNCYYB
 WASHER KIT KN70Q30372CNCYYB

| (Size) (mm) | Quantity in kit | (Size) (mm) | Quantity in kit |
|-------------|-----------------|-------------|-----------------|
| 3.15X1.80 | 18 | 20.00X3.55 | 10 |
| 3.75X1.80 | 18 | 21.20X3.55 | 10 |
| 4.50X1.80 | 18 | 22.40X3.55 | 10 |
| 5.30X1.80 | 18 | 25.00X3.55 | 10 |
| 6.00X1.80 | 18 | 26.50X3.55 | 10 |
| 7.50X1.80 | 18 | 28.00X3.55 | 10 |
| 9.50X1.80 | 18 | 30.00X3.55 | 10 |
| 10.00X2.65 | 12 | 31.50X3.55 | 10 |
| 11.20X2.65 | 12 | 32.50X3.55 | 10 |
| 13.20X2.65 | 12 | 34.50X3.55 | 10 |
| 14.00X2.65 | 12 | 35.50X3.55 | 10 |
| 16.00X2.65 | 12 | 37.50X3.55 | 10 |
| 17.00X2.65 | 12 | 40.00X3.55 | 10 |
| 19.00X2.65 | 12 | 43.70X3.55 | 10 |
| 20.00X2.65 | 12 | 46.20X3.55 | 10 |

Q'ty:30 Sizes/372 pcs Volume:259X191X51(mm)
 Plastic Box:#C Weight:722g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

O-RING KIT KN70-30347MMCYYB
 X-RING KIT KN70X30347MMCYYB
 WASHER KIT KN70Q30347MMCYYB

| (Size) (mm) | Quantity in kit | (Size) (mm) | Quantity in kit |
|-------------|-----------------|-------------|-----------------|
| 3X3.0 | 12 | 21X3.0 | 12 |
| 4X3.0 | 12 | 22X3.0 | 12 |
| 5X3.0 | 11 | 24X3.0 | 12 |
| 6X3.0 | 11 | 25X3.0 | 12 |
| 7X3.0 | 11 | 26X3.0 | 12 |
| 8X3.0 | 11 | 28X3.0 | 12 |
| 9X3.0 | 11 | 30X3.0 | 12 |
| 10X3.0 | 11 | 32X3.0 | 12 |
| 12X3.0 | 11 | 33X3.0 | 12 |
| 13X3.0 | 11 | 35X3.0 | 12 |
| 14X3.0 | 11 | 36X3.0 | 12 |
| 15X3.0 | 11 | 38X3.0 | 12 |
| 16X3.0 | 11 | 40X3.0 | 12 |
| 18X3.0 | 11 | 44X3.0 | 12 |
| 20X3.0 | 11 | 48X3.0 | 12 |

Q'ty:30 Sizes/347 pcs Volume:259X191X51(mm)
 Plastic Box:#C Weight:723g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A



O-RING KIT KN70-30386MMCYB
 X-RING KIT KN70X30386MMCYB
 WASHER KIT KN70Q30386MMCYB

| (Size) (mm) | Quantity in kit | (Size) (mm) | Quantity in kit |
|-------------|-----------------|-------------|-----------------|
| 3X2.0 | 16 | 20X3.0 | 12 |
| 4X2.0 | 16 | 22X3.0 | 12 |
| 5X2.0 | 16 | 24X3.0 | 12 |
| 6X2.0 | 16 | 25X3.0 | 12 |
| 7X2.0 | 16 | 27X3.0 | 12 |
| 8X2.0 | 16 | 28X3.0 | 12 |
| 10X2.0 | 16 | 30X3.0 | 12 |
| 10X2.5 | 13 | 32X3.0 | 12 |
| 11X2.5 | 13 | 33X3.0 | 12 |
| 12X2.5 | 13 | 35X3.0 | 12 |
| 14X2.5 | 13 | 36X3.0 | 12 |
| 16X2.5 | 13 | 38X3.0 | 12 |
| 17X2.5 | 13 | 38X4.0 | 9 |
| 19X2.5 | 13 | 41X4.0 | 9 |
| 19X3.0 | 12 | 44X4.0 | 9 |

Q'ty:30 Sizes/386 pcs Volume:259×191×51(mm)
 Plastic Box:#C Weight:722g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

O-RING KIT KN70-30391PGCYB
 X-RING KIT KN70X30391PGCYB
 WASHER KIT KN70Q30391PGCYB

| (Size) (mm) | Quantity in kit | (Size) (mm) | Quantity in kit |
|-------------|-----------------|-------------|-----------------|
| P3 | 18 | P22 | 11 |
| P4 | 18 | P22.4 | 10 |
| P5 | 18 | G25 | 11 |
| P6 | 18 | P25 | 10 |
| P7 | 18 | P26 | 10 |
| P8 | 18 | G30 | 11 |
| P9 | 18 | P30 | 10 |
| P10A | 14 | P32 | 10 |
| P11 | 14 | P34 | 10 |
| P12 | 14 | G35 | 11 |
| P14 | 14 | P36 | 10 |
| P16 | 14 | G40 | 11 |
| P18 | 14 | P40 | 10 |
| P20 | 14 | G45 | 11 |
| P21 | 11 | P48 | 10 |

Q'ty:30 Sizes/391 pcs Volume:259×191×51(mm)
 Plastic Box:#C Weight:723g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A



O-RING KIT KN70-32426MMERRB
 X-RING KIT KN70X32426MMERRB
 WASHER KIT KN70Q32426MMERRB

| (Size) (mm) | Quantity in kit | (Size) (mm) | Quantity in kit |
|-------------|-----------------|-------------|-----------------|
| 3X2.0 | 16 | 20X3.0 | 12 |
| 5X2.0 | 16 | 22X3.0 | 12 |
| 7X2.0 | 16 | 24X3.0 | 12 |
| 8X2.0 | 16 | 25X3.0 | 12 |
| 10X2.0 | 16 | 27X3.0 | 12 |
| 12X2.0 | 16 | 28X3.0 | 12 |
| 10X2.5 | 14 | 30X3.0 | 12 |
| 11X2.5 | 14 | 32X3.0 | 12 |
| 12X2.5 | 14 | 33X3.0 | 12 |
| 14X2.5 | 14 | 35X3.0 | 12 |
| 16X2.5 | 14 | 36X3.0 | 12 |
| 17X2.5 | 14 | 38X3.0 | 12 |
| 19X2.5 | 14 | 41X3.0 | 12 |
| 20X2.5 | 14 | 45X3.0 | 12 |
| 22X2.5 | 14 | 48X3.0 | 12 |
| 19X3.0 | 12 | 51X3.0 | 12 |

Q'ty:32 Sizes/426 pcs Volume:279×178×48(mm)
 Plastic Box:#E Weight:762g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

O-RING KIT KN70-32563MMERRB
 X-RING KIT KN70X32563MMERRB
 WASHER KIT KN70Q32563MMERRB

| (Size) (mm) | Quantity in kit | (Size) (mm) | Quantity in kit |
|-------------|-----------------|-------------|-----------------|
| 3X2 | 18 | 23X2 | 18 |
| 4X2 | 18 | 25X2 | 18 |
| 6X2 | 17 | 26X2 | 18 |
| 8X2 | 17 | 27X2 | 18 |
| 9X2 | 17 | 28X2 | 18 |
| 10X2 | 17 | 30X2 | 18 |
| 11X2 | 17 | 32X2 | 18 |
| 12X2 | 17 | 34X2 | 18 |
| 13X2 | 17 | 36X2 | 18 |
| 14X2 | 17 | 37X2 | 18 |
| 16X2 | 17 | 38X2 | 18 |
| 18X2 | 17 | 40X2 | 18 |
| 19X2 | 17 | 44X2 | 18 |
| 20X2 | 17 | 46X2 | 18 |
| 21X2 | 18 | 50X2 | 18 |
| 22X2 | 17 | 52X2 | 18 |

Q'ty:32 Sizes/563 pcs Volume:279×178×48(mm)
 Plastic Box:#E Weight:806g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

O-RING KIT KN70-32390CNERRB
 X-RING KIT KN70X32390CNERRB
 WASHER KIT KN70Q32390CNERRB

| (Size) (mm) | Quantity in kit | (Size) (mm) | Quantity in kit |
|-------------|-----------------|-------------|-----------------|
| 2.80X1.80 | 20 | 20.00X3.55 | 10 |
| 4.50X1.80 | 20 | 21.20X3.55 | 10 |
| 6.00X1.80 | 18 | 22.40X3.55 | 10 |
| 7.50X1.80 | 18 | 25.00X3.55 | 10 |
| 9.50X1.80 | 18 | 26.50X3.55 | 10 |
| 12.50X1.80 | 18 | 28.00X3.55 | 10 |
| 10.00X2.65 | 12 | 30.00X3.55 | 10 |
| 11.20X2.65 | 12 | 31.50X3.55 | 10 |
| 13.20X2.65 | 12 | 32.50X3.55 | 10 |
| 14.00X2.65 | 12 | 34.50X3.55 | 10 |
| 16.00X2.65 | 12 | 35.50X3.55 | 10 |
| 17.00X2.65 | 12 | 37.50X3.55 | 10 |
| 19.00X2.65 | 12 | 40.00X3.55 | 10 |
| 20.00X2.65 | 12 | 43.70X3.55 | 10 |
| 22.40X2.65 | 12 | 45.00X3.55 | 10 |
| 18.00X3.55 | 10 | 50.00X3.55 | 10 |

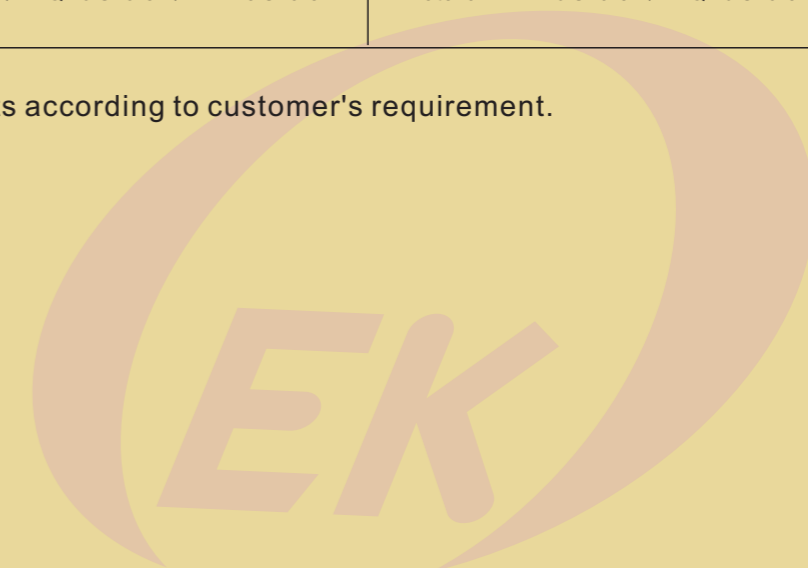
Q'ty:32 Sizes/390 pcs Volume:279×178×48(mm)
 Plastic Box:#E Weight:790g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

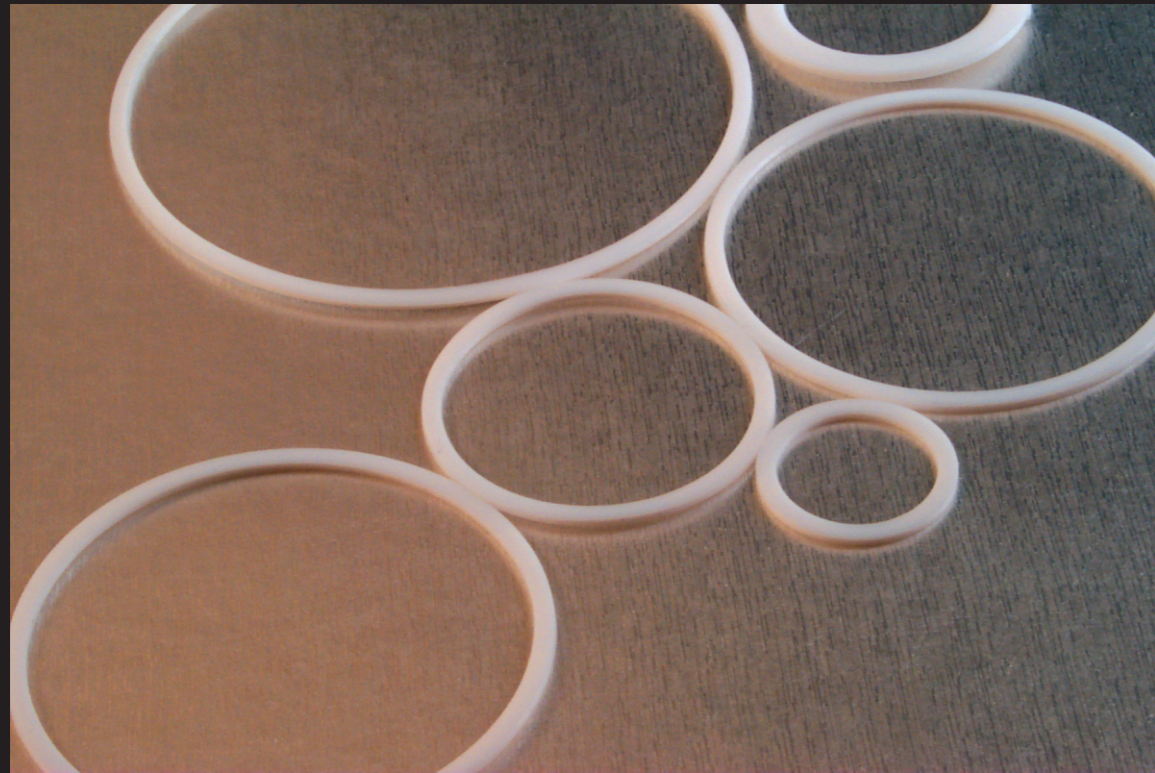
O-RING KIT KN70-32407ASERRB
 X-RING KIT KN70X32407ASERRB
 WASHER KIT KN70Q32407ASERRB

| (Size) (mm) | Quantity in kit | (Size) (mm) | Quantity in kit |
|-------------|-----------------|-------------|-----------------|
| 006 | 20 | 211 | 10 |
| 008 | 20 | 212 | 10 |
| 010 | 20 | 213 | 10 |
| 011 | 20 | 214 | 10 |
| 012 | 20 | 215 | 10 |
| 014 | 20 | 216 | 10 |
| 110 | 13 | 217 | 10 |
| 111 | 13 | 218 | 10 |
| 112 | 13 | 219 | 10 |
| 113 | 13 | 220 | 10 |
| 114 | 13 | 221 | 10 |
| 115 | 13 | 222 | 10 |
| 116 | 13 | 223 | 10 |
| 117 | 13 | 224 | 10 |
| 118 | 13 | 225 | 10 |
| 210 | 10 | 226 | 10 |

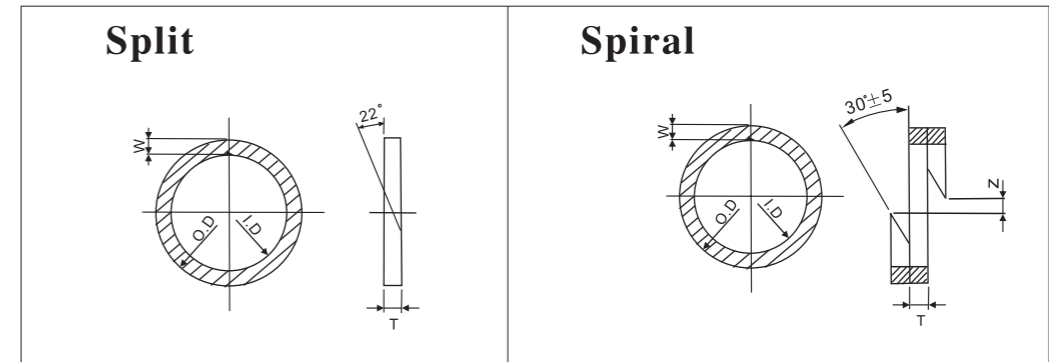
Q'ty:32 Sizes/407 pcs Volume:279×178×48(mm)
 Plastic Box:#E Weight:806g
 Material:NBR 70 Shore A/VMQ 70 Shore A/FKM 75 Shore A

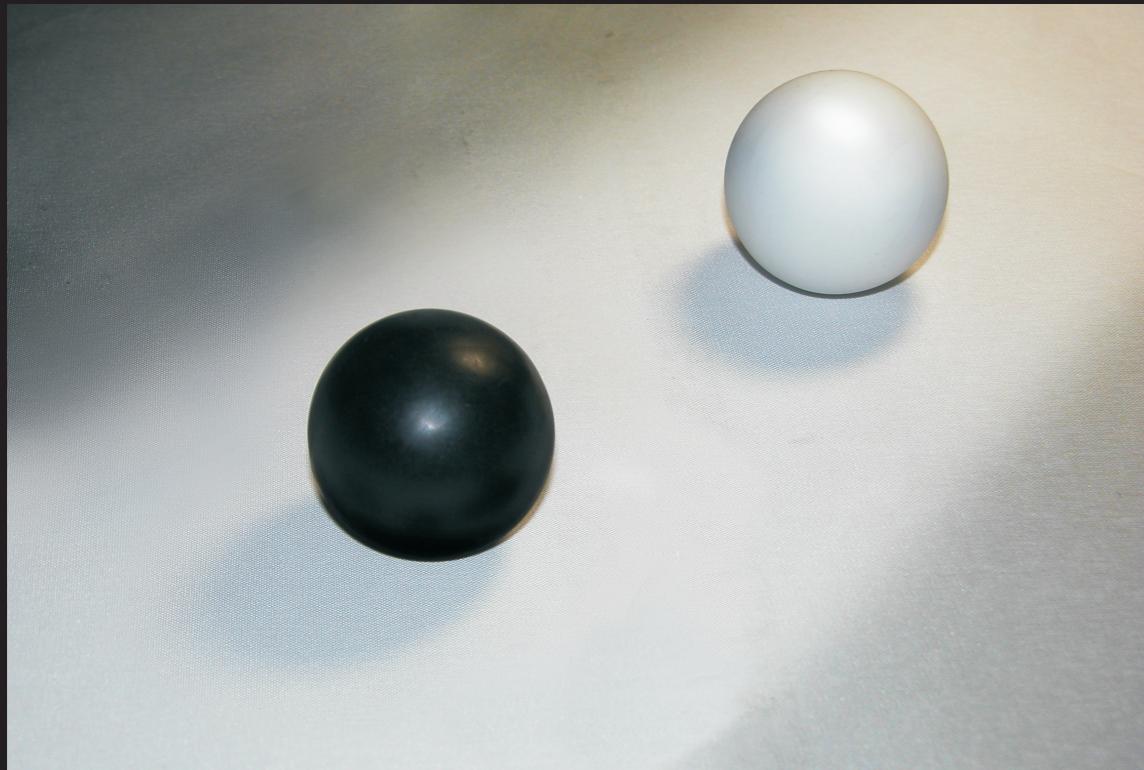
● Develop repair kits according to customer's requirement.





PTFE back-up ring is mainly used to bear greater pressure in cylinder, hydraulic system or valve to keep effective seal function. It is able to prevent o-ring from extrusion and increase the pressure that o-ring resist.





Rubber ball is mainly used to seal valve, automobile brake-system and so on.



| Nomial Size (mm) | Tol± (mm) | Roundness | Nomial Size (mm) | Tol± (mm) | Roundness |
|------------------|-----------|-----------|------------------|-----------|-----------|
| 1.57 | ±0.07 | 0.07 | 17.50 | ±0.10 | 0.10 |
| 1.83 | ±0.07 | 0.07 | 18.00 | ±0.10 | 0.10 |
| 2.00 | ±0.07 | 0.07 | 19.00 | ±0.10 | 0.10 |
| 2.40 | ±0.07 | 0.07 | 20.00 | ±0.10 | 0.10 |
| 2.50 | ±0.07 | 0.07 | 22.00 | ±0.15 | 0.15 |
| 2.90 | ±0.07 | 0.07 | 24.00 | ±0.15 | 0.15 |
| 3.00 | ±0.07 | 0.07 | 26.00 | ±0.20 | 0.20 |
| 3.20 | ±0.07 | 0.07 | 27.00 | ±0.20 | 0.20 |
| 5.00 | ±0.07 | 0.07 | 28.00 | ±0.20 | 0.20 |
| 5.34 | ±0.07 | 0.07 | 30.00 | ±0.20 | 0.20 |
| 4.50 | ±0.07 | 0.07 | 32.00 | ±0.20 | 0.20 |
| 4.75 | ±0.07 | 0.07 | 35.00 | ±0.20 | 0.20 |
| 5.00 | ±0.07 | 0.07 | 37.00 | ±0.20 | 0.20 |
| 6.00 | ±0.07 | 0.07 | 40.00 | ±0.20 | 0.20 |
| 6.50 | ±0.07 | 0.07 | 48.00 | ±0.20 | 0.20 |
| 7.00 | ±0.07 | 0.07 | 50.00 | ±0.25 | 0.25 |
| 7.80 | ±0.07 | 0.07 | 55.00 | ±0.25 | 0.25 |
| 8.50 | ±0.07 | 0.07 | 58.00 | ±0.25 | 0.25 |
| 9.50 | ±0.07 | 0.07 | 60.00 | ±0.25 | 0.25 |
| 10.00 | ±0.07 | 0.07 | 63.00 | ±0.25 | 0.25 |
| 12.00 | ±0.08 | 0.08 | 65.00 | ±0.25 | 0.25 |
| 12.20 | ±0.08 | 0.08 | 70.00 | ±0.25 | 0.25 |
| 13.00 | ±0.08 | 0.08 | 75.00 | ±0.50 | 0.50 |
| 14.00 | ±0.08 | 0.08 | 80.00 | ±0.50 | 0.50 |
| 14.30 | ±0.08 | 0.08 | 83.00 | ±0.50 | 0.50 |
| 15.00 | ±0.08 | 0.08 | 100.00 | ±0.50 | 0.50 |
| 16.00 | ±0.10 | 0.10 | | | |

| Size (inch) | Size (mm) | Tol± (mm) | Roundness | Size (inch) | Size (mm) | Tol± (mm) | Roundness | | |
|-------------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-------|------|
| 1/8 | 0.125 | 3.18 | ±0.07 | 0.07 | 3/4 | 0.750 | 19.05 | ±0.10 | 0.10 |
| 5/32 | 0.156 | 3.96 | ±0.07 | 0.07 | 1 | 1.000 | 25.40 | ±0.15 | 0.15 |
| 3/16 | 0.188 | 4.78 | ±0.07 | 0.07 | 1 1/8 | 1.125 | 28.58 | ±0.20 | 0.20 |
| 7/32 | 0.218 | 5.54 | ±0.07 | 0.07 | 1 3/8 | 1.375 | 34.93 | ±0.20 | 0.20 |
| 1/4 | 0.250 | 6.35 | ±0.07 | 0.07 | 1 1/2 | 1.500 | 38.10 | ±0.20 | 0.20 |
| 5/16 | 0.312 | 7.92 | ±0.07 | 0.07 | 1 5/8 | 1.625 | 41.28 | ±0.20 | 0.20 |
| 3/8 | 0.375 | 9.53 | ±0.07 | 0.07 | 2 1/2 | 2.500 | 63.50 | ±0.25 | 0.25 |
| 7/16 | 0.438 | 11.13 | ±0.08 | 0.08 | 2 3/4 | 2.750 | 69.85 | ±0.25 | 0.25 |
| 1/2 | 0.500 | 12.70 | ±0.08 | 0.08 | 3 1/4 | 3.250 | 82.55 | ±0.50 | 0.50 |
| 5/8 | 0.625 | 15.88 | ±0.10 | 0.10 | 4 | 4.000 | 101.60 | ±0.50 | 0.50 |

V Ring



V-ring, made of excellent elastomer, is easy to be pulled and assembly.

It's used with shaft and rotates with it.

Characters: Easily installed and dismantled, is suitable for the shock of Y axial and radial and the bias of valve, able to load higher pressure. Its pressure range is 0~25Mpa with the temperature range -35℃~100℃.

VA Ring

VN70V-003AB

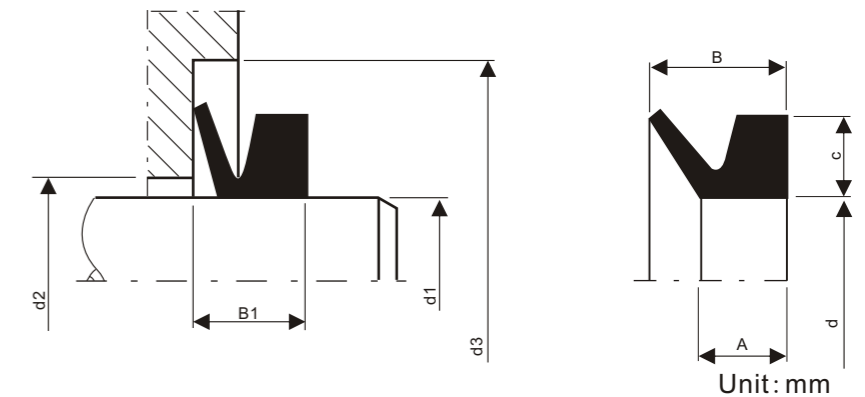
V=V Ring

N=NBR(see material chart)

70=70(Shore A)

V-003A=Standard NO.

B=BLACK(color)

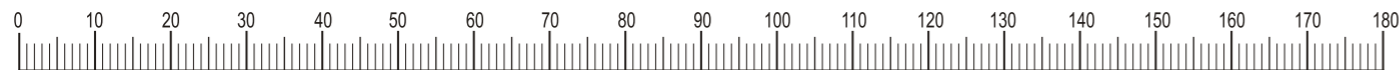


| N° | d1 | d | C | A | B | B1 | d2 | d3 |
|--------|-----------|------|-----|-----|-----|---------|------|-------|
| V-003A | 2.7 -3.5 | 2.5 | 1.5 | 2.1 | 3.0 | 2.5±0.3 | d1+1 | d1+4 |
| V-004A | 3.5 -4.5 | 3.2 | 2.0 | 2.4 | 3.7 | 3.0±0.4 | d1+1 | d1+6 |
| V-005A | 4.5 -5.5 | 4.0 | 2.0 | 2.4 | 3.7 | 3.0±0.4 | d1+1 | d1+6 |
| V-006A | 5.5 -6.5 | 5.0 | 2.0 | 2.4 | 3.7 | 3.0±0.4 | d1+1 | d1+6 |
| V-007A | 6.5 -8.0 | 6.0 | 2.0 | 2.4 | 3.7 | 3.0±0.4 | d1+1 | d1+6 |
| V-008A | 8.0-9.5 | 7.0 | 2.0 | 2.4 | 3.7 | 3.0±0.4 | d1+1 | d1+6 |
| V-010A | 9.5-11.5 | 9.0 | 3.0 | 3.4 | 5.5 | 4.5±0.6 | d1+1 | d1+9 |
| V-012A | 11.5-12.5 | 10.5 | 3.0 | 3.4 | 5.5 | 4.5±0.6 | d1+1 | d1+9 |
| V-013A | 12.5-13.5 | 11.7 | 3.0 | 3.4 | 5.5 | 4.5±0.6 | d1+1 | d1+9 |
| V-014A | 13.5-15.5 | 12.5 | 3.0 | 3.4 | 5.5 | 4.5±0.6 | d1+1 | d1+9 |
| V-016A | 15.5-17 | 14.0 | 3.0 | 3.4 | 5.5 | 4.5±0.6 | d1+1 | d1+9 |
| V-018A | 17.5-19 | 16.0 | 3.0 | 3.4 | 5.5 | 4.5±0.6 | d1+1 | d1+9 |
| V-020A | 19-21 | 18.0 | 4.0 | 4.7 | 7.5 | 6.0±0.8 | d1+2 | d1+12 |
| V-022A | 21-24 | 20.0 | 4.0 | 4.7 | 7.5 | 6.0±0.8 | d1+2 | d1+12 |
| V-025A | 24-27 | 22.0 | 4.0 | 4.7 | 7.5 | 6.0±0.8 | d1+2 | d1+12 |
| V-028A | 27-29 | 25.0 | 4.0 | 4.7 | 7.5 | 6.0±0.8 | d1+2 | d1+12 |
| V-030A | 29-31 | 27.0 | 4.0 | 4.7 | 7.5 | 6.0±0.8 | d1+2 | d1+12 |
| V-032A | 31-33 | 29.0 | 4.0 | 4.7 | 7.5 | 6.0±0.8 | d1+2 | d1+12 |
| V-035A | 33-36 | 31.0 | 4.0 | 4.7 | 7.5 | 6.0±0.8 | d1+2 | d1+12 |
| V-038A | 36-38 | 34.0 | 4.0 | 4.7 | 7.5 | 6.0±0.8 | d1+2 | d1+12 |
| V-040A | 38-43 | 36.0 | 5.0 | 5.5 | 9.0 | 7.0±1.0 | d1+2 | d1+15 |
| V-045A | 43-48 | 40.0 | 5.0 | 5.5 | 9.0 | 7.0±1.0 | d1+2 | d1+15 |
| V-050A | 48-53 | 45.0 | 5.0 | 5.5 | 9.0 | 7.0±1.0 | d1+2 | d1+15 |
| V-055A | 53-58 | 49.0 | 5.0 | 5.5 | 9.0 | 7.0±1.0 | d1+2 | d1+15 |
| V-060A | 58-63 | 54.0 | 5.0 | 5.5 | 9.0 | 7.0±1.0 | d1+2 | d1+15 |
| V-065A | 63-68 | 58.0 | 5.0 | 5.5 | 9.0 | 7.0±1.0 | d1+2 | d1+15 |



Unit: mm

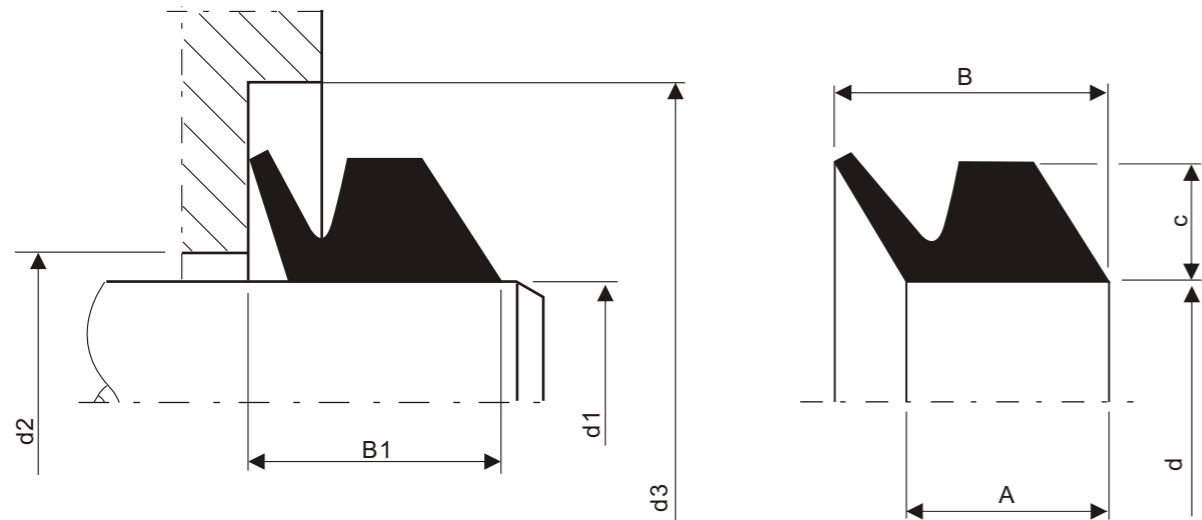
| N° — | d1 | d | C | A | B | B1 | d2 | d3 |
|--------|---------|-------|------|------|------|----------|-------|-------|
| V-070A | 68-73 | 63.0 | 6.0 | 6.8 | 11.0 | 9.0±1.2 | d1+3 | d1+18 |
| V-075A | 73-78 | 67.0 | 6.0 | 6.8 | 11.0 | 9.0±1.2 | d1+3 | d1+18 |
| V-080A | 78-83 | 72.0 | 6.0 | 6.8 | 11.0 | 9.0±1.2 | d1+3 | d1+18 |
| V-085A | 83-88 | 76.0 | 6.0 | 6.8 | 11.0 | 9.0±1.2 | d1+3 | d1+18 |
| V-090A | 88-93 | 81.0 | 6.0 | 6.8 | 11.0 | 9.0±1.2 | d1+3 | d1+18 |
| V-095A | 93-98 | 85.0 | 6.0 | 6.8 | 11.0 | 9.0±1.2 | d1+3 | d1+18 |
| V-100A | 98-105 | 90.0 | 6.0 | 6.8 | 11.0 | 9.0±1.2 | d1+3 | d1+18 |
| V-110A | 105-115 | 99.0 | 7.0 | 7.9 | 12.8 | 10.5±1.5 | d1+4 | d1+21 |
| V-120A | 115-125 | 108.0 | 7.0 | 7.9 | 12.8 | 10.5±1.5 | d1+4 | d1+21 |
| V-130A | 125-135 | 117.0 | 7.0 | 7.9 | 12.8 | 10.5±1.5 | d1+4 | d1+21 |
| V-140A | 135-145 | 126.0 | 7.0 | 7.9 | 12.8 | 10.5±1.5 | d1+4 | d1+21 |
| V-150A | 145-155 | 135.0 | 7.0 | 7.9 | 12.8 | 10.5±1.5 | d1+4 | d1+21 |
| V-160A | 155-165 | 144.0 | 8.0 | 9.0 | 14.5 | 12.0±1.8 | d1+4 | d1+24 |
| V-170A | 165-175 | 153.0 | 8.0 | 9.0 | 14.5 | 12.0±1.8 | d1+4 | d1+24 |
| V-180A | 175-185 | 162.0 | 8.0 | 9.0 | 14.5 | 12.0±1.8 | d1+4 | d1+24 |
| V-190A | 185-195 | 171.0 | 8.0 | 9.0 | 14.5 | 12.0±1.8 | d1+4 | d1+24 |
| V-199A | 195-210 | 180.0 | 8.0 | 9.0 | 14.5 | 12.0±1.8 | d1+4 | d1+24 |
| V-200A | 190-210 | 180.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-220A | 210-235 | 198.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-250A | 235-265 | 225.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-275A | 265-290 | 247.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-300A | 290-310 | 270.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-325A | 310-335 | 292.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-350A | 335-365 | 315.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-375A | 365-390 | 337.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-400A | 390-430 | 360.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-450A | 430-480 | 405.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-500A | 480-530 | 450.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-550A | 530-580 | 495.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-600A | 580-630 | 540.0 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |



Unit: mm

| N° — | d1 | d | C | A | B | B1 | d2 | d3 |
|---------|-----------|------|------|------|------|----------|-------|-------|
| V-650A | 630-665 | 600 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-700A | 665-705 | 630 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-725A | 705-745 | 670 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-750A | 745-785 | 705 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-800A | 785-830 | 745 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-850A | 830-875 | 785 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-900A | 875-920 | 825 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-950A | 920-965 | 865 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1000A | 965-1015 | 910 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1050A | 1015-1065 | 955 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1100A | 1065-1115 | 1000 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1150A | 1115-1165 | 1045 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1200A | 1165-1215 | 1090 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1250A | 1215-1270 | 1135 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1300A | 1270-1320 | 1180 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1350A | 1320-1370 | 1225 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1400A | 1370-1420 | 1270 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1450A | 1420-1470 | 1315 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1500A | 1470-1520 | 1360 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1550A | 1520-1570 | 1405 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1600A | 1570-1620 | 1450 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1650A | 1620-1670 | 1495 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1700A | 1670-1720 | 1540 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1750A | 1720-1770 | 1585 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1800A | 1770-1820 | 1630 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1850A | 1820-1870 | 1675 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1900A | 1870-1920 | 1720 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-1950A | 1920-1970 | 1765 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |
| V-2000A | 1970-2020 | 1810 | 15.0 | 14.3 | 25.0 | 20.0±4.0 | d1+10 | d1+45 |





VN70V-005SB

V=V Ring

N=NBR(see material chart)

70=70(Shore A)

V-005S=Standard NO.

B=BLACK(color)



Unit: mm

| N° | d1 | d | C | A | B | B1 | d2 | d3 |
|--------|-------------|------|-----|-----|------|---------|------|-------|
| V-005S | 4.5 - 5.5 | 4.0 | 2.0 | 3.9 | 5.2 | 4.5±0.4 | d1+1 | d1+6 |
| V-006S | 5.5 - 6.5 | 5.0 | 2.0 | 3.9 | 5.2 | 4.5±0.4 | d1+1 | d1+6 |
| V-007S | 6.5 - 8.0 | 6.0 | 2.0 | 3.9 | 5.2 | 4.5±0.4 | d1+1 | d1+6 |
| V-008S | 8.0 - 9.5 | 7.0 | 2.0 | 3.9 | 3.7 | 4.5±0.4 | d1+1 | d1+6 |
| V-010S | 9.5 - 11.5 | 9.0 | 3.0 | 5.6 | 7.7 | 6.7±0.6 | d1+1 | d1+9 |
| V-012S | 11.5 - 13.5 | 10.5 | 3.0 | 5.6 | 7.7 | 6.7±0.6 | d1+1 | d1+9 |
| V-014S | 13.5 - 15.5 | 12.5 | 3.0 | 5.6 | 7.7 | 6.7±0.6 | d1+1 | d1+9 |
| V-016S | 15.5 - 17.5 | 14.0 | 3.0 | 5.6 | 7.7 | 6.7±0.6 | d1+1 | d1+9 |
| V-018S | 17.5 - 19 | 16.0 | 3.0 | 5.6 | 7.7 | 6.7±0.6 | d1+1 | d1+9 |
| V-020S | 19 - 21 | 18.0 | 4.0 | 7.9 | 10.5 | 9.0±0.8 | d1+2 | d1+12 |
| V-022S | 21 - 24 | 20.0 | 4.0 | 7.9 | 10.5 | 9.0±0.8 | d1+2 | d1+12 |
| V-025S | 24 - 27 | 22.0 | 4.0 | 7.9 | 10.5 | 9.0±0.8 | d1+2 | d1+12 |
| V-028S | 27 - 29 | 25.0 | 4.0 | 7.9 | 10.5 | 9.0±0.8 | d1+2 | d1+12 |
| V-030S | 29 - 31 | 27.0 | 4.0 | 7.9 | 10.5 | 9.0±0.8 | d1+2 | d1+12 |

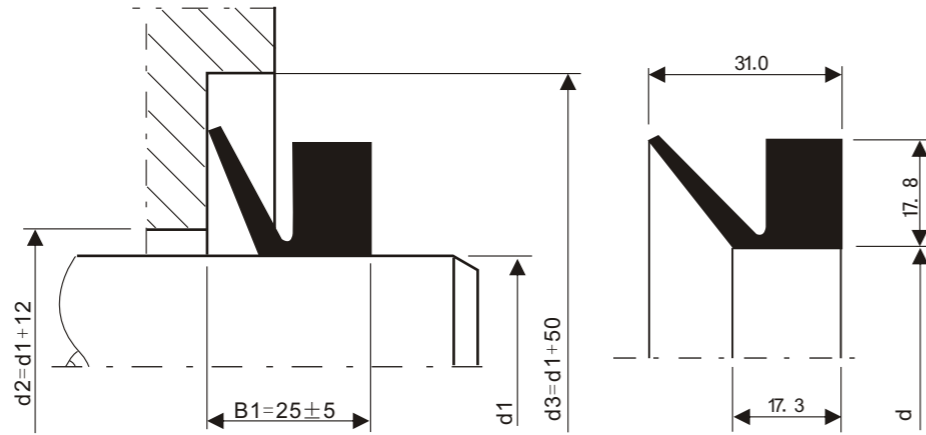


Unit: mm

| N° | d1 | d | C | A | B | B1 | d2 | d3 |
|--------|-----------|-------|-----|------|------|----------|------|-------|
| V-032S | 31 - 33 | 29.0 | 4.0 | 7.9 | 10.5 | 9.0±0.8 | d1+2 | d1+12 |
| V-035S | 33 - 36 | 31.0 | 4.0 | 7.9 | 10.5 | 9.0±0.8 | d1+2 | d1+12 |
| V-038S | 36 - 38 | 34.0 | 4.0 | 7.9 | 10.5 | 9.0±0.8 | d1+2 | d1+12 |
| V-040S | 38 - 43 | 36.0 | 5.0 | 9.5 | 13.0 | 11.0±1.0 | d1+2 | d1+15 |
| V-045S | 43 - 48 | 40.0 | 5.0 | 9.5 | 13.0 | 11.0±1.0 | d1+2 | d1+15 |
| V-050S | 48 - 53 | 45.0 | 5.0 | 9.5 | 13.0 | 11.0±1.0 | d1+2 | d1+15 |
| V-055S | 53 - 58 | 49.0 | 5.0 | 9.5 | 13.0 | 11.0±1.0 | d1+2 | d1+15 |
| V-060S | 58 - 63 | 54.0 | 5.0 | 9.5 | 13.0 | 11.0±1.0 | d1+2 | d1+15 |
| V-065S | 63 - 68 | 58.0 | 5.0 | 9.5 | 13.0 | 11.0±1.0 | d1+2 | d1+15 |
| V-070S | 68 - 73 | 63.0 | 6.0 | 11.3 | 15.5 | 13.5±1.2 | d1+3 | d1+18 |
| V-075S | 73 - 78 | 67.0 | 6.0 | 11.3 | 15.5 | 13.5±1.2 | d1+3 | d1+18 |
| V-080S | 78 - 83 | 72.0 | 6.0 | 11.3 | 15.5 | 13.5±1.2 | d1+3 | d1+18 |
| V-085S | 83 - 88 | 76.0 | 6.0 | 11.3 | 15.5 | 13.5±1.2 | d1+3 | d1+18 |
| V-090S | 88 - 93 | 81.0 | 6.0 | 11.3 | 15.5 | 13.5±1.2 | d1+3 | d1+18 |
| V-095S | 93 - 98 | 85.0 | 6.0 | 11.3 | 15.5 | 13.5±1.2 | d1+3 | d1+18 |
| V-100S | 98 - 105 | 90.0 | 6.0 | 11.3 | 15.5 | 13.5±1.2 | d1+3 | d1+18 |
| V-110S | 105 - 115 | 99.0 | 7.0 | 13.1 | 18.0 | 15.5±1.5 | d1+4 | d1+21 |
| V-120S | 115 - 125 | 108.0 | 7.0 | 13.1 | 18.0 | 15.5±1.5 | d1+4 | d1+21 |
| V-130S | 125 - 135 | 117.0 | 7.0 | 13.1 | 18.0 | 15.5±1.5 | d1+4 | d1+21 |
| V-140S | 135 - 145 | 126.0 | 7.0 | 13.1 | 18.0 | 15.5±1.5 | d1+4 | d1+21 |
| V-150S | 145 - 155 | 135.0 | 7.0 | 13.1 | 18.0 | 15.5±1.5 | d1+4 | d1+21 |
| V-160S | 155 - 165 | 144.0 | 8.0 | 15.0 | 20.5 | 18.0±1.8 | d1+4 | d1+24 |
| V-170S | 165 - 175 | 153.0 | 8.0 | 15.0 | 20.5 | 18.0±1.8 | d1+4 | d1+24 |
| V-180S | 175 - 185 | 162.0 | 8.0 | 15.0 | 20.5 | 18.0±1.8 | d1+4 | d1+24 |
| V-190S | 185 - 195 | 171.0 | 8.0 | 15.0 | 20.5 | 18.0±1.8 | d1+4 | d1+24 |
| V-199S | 195 - 210 | 180.0 | 8.0 | 15.0 | 20.5 | 18.0±1.8 | d1+4 | d1+24 |

V AX Ring

VL/VLX Ring



VN70V-200AX

V=V Ring

N=NBR(see material chart)

70=70(Shore A)

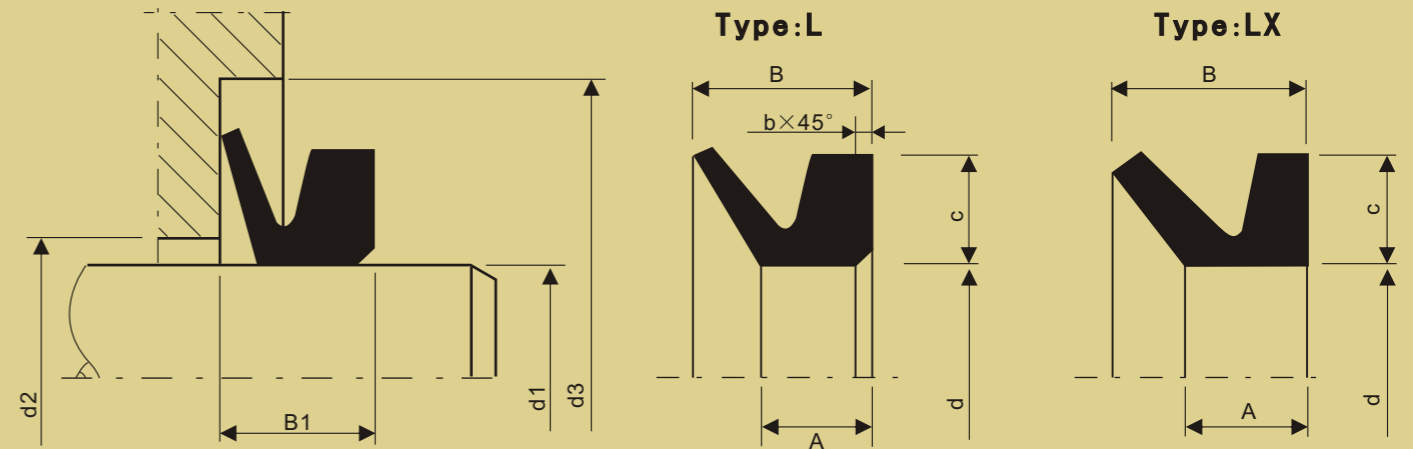
V-200AX=Standard NO.

B=BLACK(color)



Unit: mm

| N° | d1 | d | N° | d1 | d | N° | d1 | d |
|---------|-----------|-----|----------|-------------|-----|----------|-------------|------|
| V-200AX | 200 - 205 | 192 | V-350AX | 345 - 355 | 322 | V-1100AX | 1065 - 1115 | 1000 |
| V-205AX | 205 - 210 | 196 | V-360AX | 355 - 372 | 328 | V-1150AX | 1115 - 1165 | 1045 |
| V-210AX | 210 - 215 | 200 | V-380AX | 372 - 390 | 344 | V-1200AX | 1165 - 1215 | 1090 |
| V-215AX | 215 - 219 | 204 | V-400AX | 390 - 415 | 360 | V-1250AX | 1215 - 1270 | 1135 |
| V-220AX | 219 - 224 | 207 | V-425AX | 415 - 443 | 385 | V-1300AX | 1270 - 1320 | 1180 |
| V-225AX | 224 - 228 | 211 | V-450AX | 443 - 480 | 410 | V-1350AX | 1320 - 1370 | 1225 |
| V-230AX | 228 - 232 | 215 | V-500AX | 480 - 530 | 450 | V-1400AX | 1370 - 1420 | 1270 |
| V-235AX | 232 - 236 | 219 | V-550AX | 530 - 580 | 495 | V-1450AX | 1420 - 1470 | 1315 |
| V-240AX | 236 - 240 | 223 | V-600AX | 580 - 630 | 540 | V-1500AX | 1470 - 1520 | 1360 |
| V-250AX | 240 - 250 | 227 | V-650AX | 630 - 665 | 600 | V-1550AX | 1520 - 1570 | 1405 |
| V-260AX | 250 - 260 | 236 | V-700AX | 665 - 705 | 630 | V-1600AX | 1570 - 1620 | 1450 |
| V-270AX | 260 - 270 | 245 | V-725AX | 705 - 745 | 670 | V-1650AX | 1620 - 1670 | 1495 |
| V-280AX | 270 - 281 | 255 | V-750AX | 745 - 785 | 705 | V-1700AX | 1670 - 1720 | 1540 |
| V-290AX | 281 - 292 | 265 | V-800AX | 785 - 830 | 745 | V-1750AX | 1720 - 1770 | 1585 |
| V-300AX | 292 - 303 | 275 | V-850AX | 830 - 875 | 785 | V-1800AX | 1770 - 1820 | 1630 |
| V-310AX | 303 - 313 | 285 | V-900AX | 875 - 920 | 825 | V-1850AX | 1820 - 1870 | 1675 |
| V-320AX | 313 - 325 | 295 | V-950AX | 920 - 965 | 865 | V-1900AX | 1870 - 1920 | 1720 |
| V-330AX | 325 - 335 | 305 | V-1000AX | 965 - 1015 | 910 | V-1950AX | 1920 - 1970 | 1765 |
| V-340AX | 335 - 345 | 315 | V-1050AX | 1015 - 1065 | 955 | V-2000AX | 1970 - 2020 | 1810 |



| TYPE | C | A | B | b | B1 | d3 | d2 |
|------|-----|-----|------|---|-------|-------|------|
| L | 6.5 | 6.0 | 10.5 | 1 | 8±1.5 | d1+20 | d1+5 |
| LX | 5.0 | 5.4 | 8.5 | 0 | 8±1.1 | d1+15 | d1+4 |

VN70V-140L/LX

V=V Ring

N=NBR(see material chart)

70=70(Shore A)

V-140L/LX=Standard NO.

B=BLACK(color)

Unit: mm

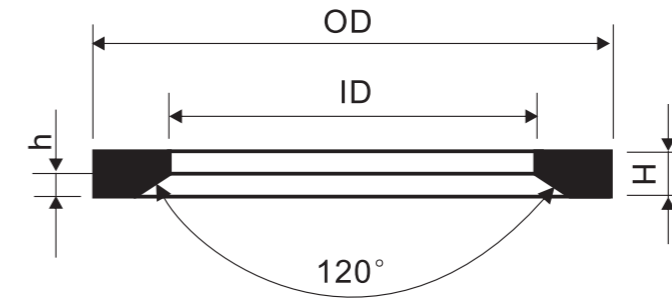
| N° | d1 | d | N° | d1 | d |
|-----------|-----------|-----|-----------|-----------|-----|
| V-110L | 105 - 115 | 99 | V-180L/LX | 175 - 185 | 162 |
| V-120L | 115 - 125 | 108 | V-190L/LX | 185 - 195 | 171 |
| V-130L | 125 - 135 | 117 | V-200L/LX | 195 - 210 | 182 |
| V-140L/LX | 135 - 145 | 126 | V-220L/LX | 210 - 233 | 198 |
| V-150L/LX | 145 - 155 | 135 | V-250L/LX | 233 - 260 | 225 |
| V-160L/LX | 155 - 165 | 144 | V-275L/LX | 260 - 285 | 247 |
| V-170L/LX | 165 - 175 | 153 | V-300L/LX | 285 - 310 | 270 |





Unit: mm

| N° | d1 | d | N° | d1 | d |
|------------|-------------|------|------------|-------------|------|
| V-325L/LX | 310 - 335 | 292 | V-1550L/LX | 1525 - 1575 | 1405 |
| V-350L/LX | 335 - 365 | 315 | V-1600L/LX | 1575 - 1625 | 1450 |
| V-375L/LX | 365 - 385 | 337 | V-1650L/LX | 1625 - 1675 | 1495 |
| V-400L/LX | 385 - 410 | 360 | V-1700L/LX | 1675 - 1725 | 1540 |
| V-425L/LX | 410 - 440 | 382 | V-1750L/LX | 1725 - 1775 | 1585 |
| V-450L/LX | 440 - 475 | 405 | V-1800L/LX | 1775 - 1825 | 1630 |
| V-500L/LX | 475 - 510 | 450 | V-1850L/LX | 1825 - 1875 | 1675 |
| V-525L/LX | 510 - 540 | 472 | V-1900L/LX | 1875 - 1925 | 1720 |
| V-550L/LX | 540 - 575 | 495 | V-1950L/LX | 1925 - 1975 | 1765 |
| V-600L/LX | 575 - 625 | 540 | V-2000L/LX | 1975 - 2025 | 1810 |
| V-650L/LX | 625 - 675 | 600 | | | |
| V-700L/LX | 675 - 710 | 630 | | | |
| V-725L/LX | 710 - 740 | 670 | | | |
| V-750L/LX | 740 - 775 | 705 | | | |
| V-800L/LX | 775 - 825 | 745 | | | |
| V-850L/LX | 825 - 875 | 785 | | | |
| V-900L/LX | 875 - 925 | 825 | | | |
| V-950L/LX | 925 - 975 | 865 | | | |
| V-1000L/LX | 975 - 1025 | 910 | | | |
| V-1050L/LX | 1035 - 1075 | 955 | | | |
| V-1100L/LX | 1075 - 1125 | 1000 | | | |
| V-1150L/LX | 1125 - 1175 | 1045 | | | |
| V-1200L/LX | 1175 - 1225 | 1090 | | | |
| V-1250L/LX | 1225 - 1275 | 1135 | | | |
| V-1300L/LX | 1275 - 1325 | 1180 | | | |
| V-1350L/LX | 1325 - 1375 | 1225 | | | |
| V-1400L/LX | 1375 - 1425 | 1270 | | | |
| V-1450L/LX | 1425 - 1475 | 1315 | | | |
| V-1500L/LX | 1475 - 1525 | 1360 | | | |

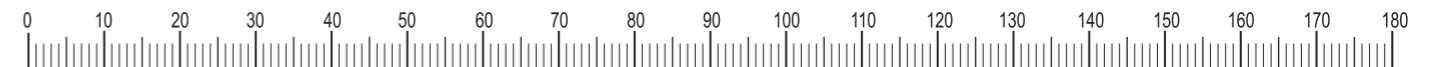
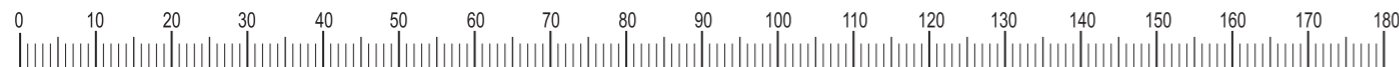


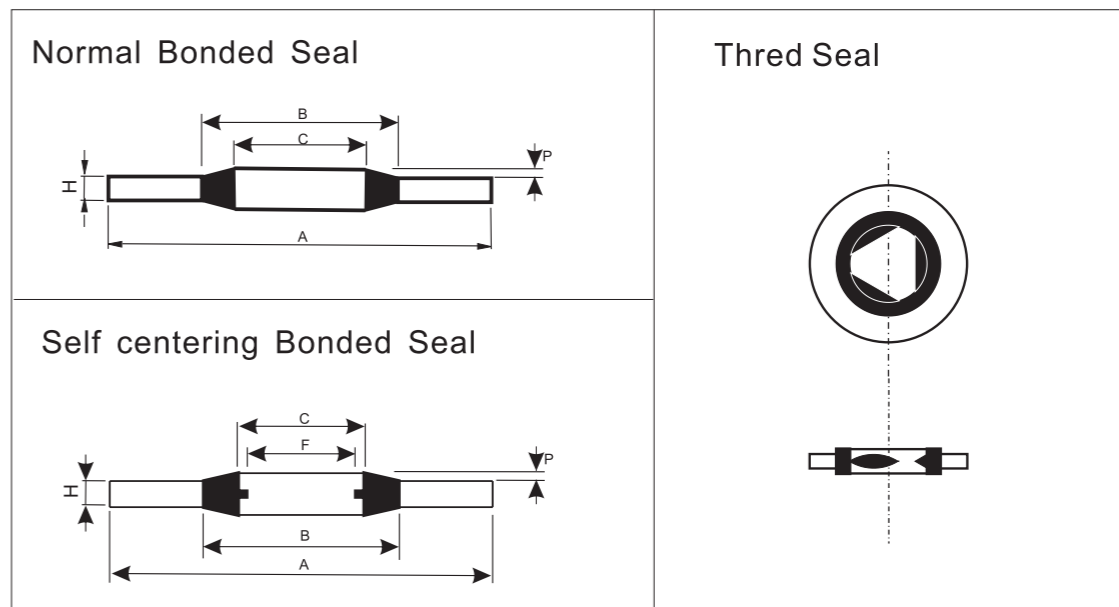
DN90ED0116B0100
 D = ED Ring
 N = NBR (see material chart)
 90 = 90 (Shore A)
 ED0116 = Standard NO.
 B = BLACK (color)



Unit: mm

| ED RING | | | | | | |
|---------|-------------|-----------|------|------|--------|--------|
| EK No | Size (Inch) | Size (mm) | ID | OD | H ±0.1 | h ±0.2 |
| ED0065 | M8X1 | | 6.5 | 9.9 | 1.0 | 0.5 |
| ED0084 | M10X1 | G1/8A | 8.4 | 11.9 | 1.0 | 0.5 |
| ED0098 | M12X1.5 | | 9.8 | 14.4 | 1.5 | 0.8 |
| ED0116 | M14X1.5 | G1/4A | 11.6 | 16.5 | 1.5 | 0.8 |
| ED0138 | M16X1.5 | | 13.8 | 18.9 | 1.5 | 0.8 |
| ED0147 | | G3/8A | 14.7 | 18.9 | 1.5 | 0.8 |
| ED0157 | M18X1.5 | | 15.7 | 20.9 | 1.5 | 0.8 |
| ED0178 | M20X1.5 | | 17.8 | 22.9 | 1.5 | 0.8 |
| ED0185 | | G1/2A | 18.5 | 23.9 | 1.5 | 0.8 |
| ED0196 | M22X1.5 | | 19.6 | 24.3 | 1.5 | 0.8 |
| ED0239 | M26X1.5 | G3/4A | 23.9 | 29.2 | 1.5 | 0.8 |
| ED0239 | M27X2 | | | | | |
| ED0267 | M30X2 | | 26.7 | 32.7 | 2.0 | 1.0 |
| ED0297 | M33X2 | G1A | 29.7 | 35.7 | 2.0 | 1.0 |
| ED0327 | M36X2 | | 32.7 | 38.7 | 2.0 | 1.0 |
| ED0357 | M39X2 | | 35.7 | 41.7 | 2.0 | 1.0 |
| ED0388 | M42X2 | G1 1/4A | 38.8 | 45.8 | 2.0 | 1.0 |
| ED0447 | M48X2 | G1 1/2A | 44.7 | 50.7 | 2.0 | 1.0 |
| ED0504 | M50X2 | G1 3/4A | 50.4 | 56.7 | 2.5 | 1.25 |
| ED0561 | M60X2 | G2A | 56.1 | 62.7 | 2.5 | 1.25 |





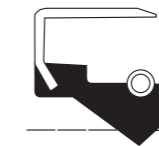
JB 982-77

| 規格 | A [OD] | | B | | C [ID] | | H | | P | F |
|-----|--------|-------|-------|-------|--------|-------|------|------|-------|-------|
| | Size | Tol± | Size | Tol± | Size | Tol± | Size | Tol± | +0.25 | ±0.20 |
| M08 | 14.00 | -0.24 | 10.00 | +0.24 | 8.4 | ±0.12 | 2 | -0.1 | 0.35 | - |
| M10 | 16.00 | -0.24 | 12.00 | +0.24 | 10.4 | ±0.12 | 2 | -0.1 | 0.35 | - |
| M12 | 18.00 | -0.24 | 14.00 | +0.24 | 12.4 | ±0.12 | 2 | -0.1 | 0.35 | - |
| M14 | 20.00 | -0.28 | 16.00 | +0.24 | 14.4 | ±0.12 | 2 | -0.1 | 0.35 | - |
| M16 | 22.00 | -0.28 | 18.00 | +0.24 | 16.4 | ±0.12 | 2 | -0.1 | 0.35 | - |
| M18 | 25.00 | -0.28 | 20.00 | +0.28 | 18.4 | ±0.12 | 2 | -0.1 | 0.35 | - |
| M20 | 28.00 | -0.28 | 23.00 | +0.28 | 20.5 | ±0.14 | 2 | -0.1 | 0.35 | - |
| M22 | 30.00 | -0.28 | 25.00 | +0.28 | 22.5 | ±0.14 | 2 | -0.1 | 0.35 | - |
| M24 | 32.00 | -0.34 | 27.00 | +0.28 | 24.5 | ±0.14 | 2 | -0.1 | 0.35 | - |
| M27 | 35.00 | -0.34 | 30.00 | +0.28 | 27.5 | ±0.14 | 2 | -0.1 | 0.35 | - |
| M30 | 38.00 | -0.34 | 33.00 | +0.34 | 30.5 | ±0.14 | 2 | -0.1 | 0.35 | - |
| M33 | 42.00 | -0.34 | 36.00 | +0.34 | 33.5 | ±0.17 | 2 | -0.1 | 0.35 | - |
| M36 | 46.00 | -0.34 | 40.00 | +0.34 | 36.6 | ±0.17 | 2 | -0.1 | 0.45 | - |
| M39 | 50.00 | -0.34 | 43.00 | +0.34 | 39.6 | ±0.17 | 2 | -0.1 | 0.45 | - |
| M42 | 53.00 | -0.40 | 46.00 | +0.34 | 42.6 | ±0.17 | 2 | -0.1 | 0.45 | - |
| M45 | 56.00 | -0.40 | 49.00 | +0.34 | 45.6 | ±0.17 | 2 | -0.1 | 0.45 | - |
| M48 | 60.00 | -0.40 | 52.00 | +0.40 | 48.7 | ±0.17 | 2 | -0.1 | 0.45 | - |
| M52 | 66.00 | -0.40 | 56.00 | +0.40 | 52.7 | ±0.20 | 2 | -0.1 | 0.45 | - |
| M60 | 75.00 | -0.40 | 64.00 | +0.40 | 60.7 | ±0.20 | 2 | -0.1 | 0.45 | - |

The Bonded Seal comprises a metal washer and an elastomer ring. It provides reliable low and high pressure sealing and wide range of temperature range usage, reducing the possibility of screw bolt loosening. The materials are mainly NBR 70 Shore A of oil-resistance and FKM75 Shore A of Brown color. We can also offer the seals according to customer's requirement.



Most of the metal case of oil seal have a grinded outside diameter.



(ISO TYTE2)
(DIN B)
SB

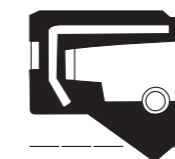


(ISO TYTE 5)
(DIN BS)
TB



VB

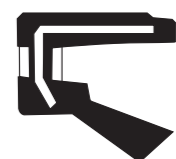
For some large thermal expansion housing especially for aluminum and magnesium, the outside diameter is covered in rubber



(ISO TYTE 1)
(DIN A)
SC



(ISO TYTE 4)
(DIN AS)
TC



VC

REMARK: 1. SB/TB/VB type oil seal is supply with custom order

2. SC/TC type oil seal in material NBR 70 Duro are available in ek-stock



(Unit: mm)

| ISO / R286 H8 | | |
|-------------------|--------------------|--------------------------|
| NORMINAL DIAMETER | HOLE DIAMETER TOL. | SHAFT O.D. DIAMETER TOL. |
| 6.00 - 10.00 | -0.000/+0.020 | -0.000/+0.090 |
| 10.01 - 18.00 | -0.000/+0.027 | -0.000/+0.110 |
| 18.01 - 30.00 | -0.000/+0.033 | -0.000/+0.130 |
| 30.01 - 50.00 | -0.000/+0.039 | -0.000/+0.160 |
| 50.01 - 80.00 | -0.000/+0.046 | -0.000/+0.190 |
| 80.01 - 120.00 | -0.000/+0.054 | -0.000/+0.220 |
| 120.01 - 180.00 | -0.000/+0.063 | -0.000/+0.250 |
| 180.01 - 250.00 | -0.000/+0.072 | -0.000/+0.290 |
| 250.01 - 315.00 | -0.000/+0.081 | -0.000/+0.320 |
| 315.01 - 400.00 | -0.000/+0.089 | -0.000/+0.360 |
| 400.01 - 500.00 | -0.000/+0.097 | -0.000/+0.400 |

| GB9877.1-88 | | |
|----------------|----------------|----------------|
| SHAFT DIAMETER | MAJOR LIP TOL. | MINOR LIP TOL. |
| 5 - 30 | -0.5/-1.3 | -0.15/-0.45 |
| 30 - 60 | -0.8/-1.7 | -0.20/-0.60 |
| 60 - 80 | -1.0/-2.0 | -0.25/-0.75 |
| 80 - 130 | -1.2/-2.6 | -0.30/-0.90 |
| 130 - 250 | -1.5/-3.3 | -0.40/-1.05 |
| 250 - 400 | -2.0/-4.0 | -0.50/-1.30 |

| GB13871-92 | |
|------------|-------------|
| DIAMETER | HEIGHT TOL. |
| ≤10 | ±0.3 |
| ≥10 | ±0.4 |

| GB13871-92 | | | | |
|----------------|----------------------------|-------------------------|-----------------------------------|--------------------------------|
| SHAFT DIAMETER | OUT SIDE FRAMEWORK ID TOL. | INNER FRAMEWORK OD TOL. | OUT SIDE FRAMEWORK ROUNDNESS TOL. | INNER FRAMEWORK ROUNDNESS TOL. |
| ≤50 | +0.20/+0.08 | +0.30/+0.15 | 0.18 | 0.25 |
| 50-80 | +0.23/+0.09 | +0.35/+0.20 | 0.25 | 0.35 |
| 80-120 | +0.25/+0.10 | +0.35(0.45)/+0.2 | 0.30 | 0.50 |
| 120-180 | +0.28/+0.12 | +0.45(0.50)/+0.25 | 0.40 | 0.65 |
| 180-300 | +0.35/+0.15 | +0.45(0.55)/+0.25 | OD * 0.25% | 0.80 |
| 300-440 | +0.45/+0.20 | +0.55(0.65)/+0.30 | OD * 0.25%, but no over 0.9 | 1.00 |

Oil seal mainly used in sealing the lubricant. It's normally fixed to the load, especially the rotary bearing in order to isolate the oil cylinder from outside. Oil seal can both seal inside oil and resist outside dust.

SN70-SC00501607BA

S=Oil Seal

N=NBR(see material chart)

70=70(Shore A)

SC=Type

005=ID

016=OD

07=H

B=BLACK(color)



Array by inner Diameter

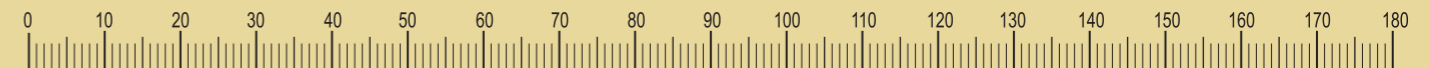
| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|-----------------|------------------|-------------------|------------------|
| 5×12×6 | 15×26×7 | 19.05×28.58×4.75 | 25×42×7 |
| 5×16×7 | 15×28×6 | 19.05×31.75×7.92 | 25×45×10 |
| 6×16×7 | 15×28×8 | 19.05×34.93×11.88 | 25×52×7 |
| 7.92×16×3.96 | 15×30×10 | 20×28×6 | 25×52×10 |
| 8×18×5 | 15×35×7 | 20×28×7 | 26×42×8 |
| 8×18×7 | 15×36×7 | 20×30×5 | 26×47×7 |
| 9×22×7 | 15×37×7 | 20×30×7 | 28×40×7 |
| 9×27×4 | 15×42×7 | 20×32×7 | 30×40×4 |
| 9.53×19.05×6.35 | 15×55×5 | 20×35×7 | 30×40×7 |
| 10×19×7 | 16×26×7 | 20×35×10 | 30×42×7 |
| 10×45×75 | 16×28×7 | 20×40×5 | 30×47×7 |
| 11.11×25.4×9.52 | 16×35×7 | 20×40×7 | 30×52×7 |
| 11.8×22×7 | 16.99×32.16×7.01 | 20×40×10 | 30×52×10 |
| 11.89×25.4×7.92 | 17×26×7 | 20×42×7 | 30×56×10 |
| 12×22×7 | 17×28×6 | 22×35×7 | 30×62×7 |
| 12×28×7 | 17×28×7 | 24×32×5 | 30×62×10 |
| 12×30×7 | 17×30×7 | 24×35×7 | 30×72×10 |
| 12×32×5 | 17×35×7 | 24×37×7 | 30.18×39.7×5 |
| 12.7×19.17×3.96 | 17×35×10 | 24×40×7 | 30.18×46.05×7.95 |
| 12.7×21.92×4.78 | 17×40×7 | 24×62×7 | 31.75×50.39×9.52 |
| 12.7×25.4×6.35 | 17×40×10 | 24.61×38.1×8.33 | 32×40×5 |
| 12.7×25.4×9.52 | 17.4×28.6×6 | 24.96×38.1×7.95 | 32×42×7 |
| 14×30×7 | 18×35×7 | 25×35×7 | 32×45×7 |
| 14×35×7 | 18.54×41.43×6.35 | 25×36×7 | 32×47×7 |
| 15×24×7 | 19×36×7 | 25×38×7 | 32×57×12 |

- when choosing oil seal, slight difference of height is workable.
- Custom Design Service can be furnished
- Small quantity is available



Array by inner Diameter

| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|------------------|-------------|--------------------|--------------------|
| 34.92×57.15×9.52 | 40×68×7 | 50×85×8 | 85×100×10 |
| 35×42×4 | 40×72×7 | 53×68×10 | 85×105×8 |
| 35×45×7 | 42×55×7 | 55×78×10 | 85×110×12 |
| 35×47×7 | 42×62×7 | 55×82×10 | 90×110×12 |
| 35×52×7 | 42×62×8 | 55×90×8 | 92.08×114.3×9.52 |
| 35×52×10 | 42×63×9 | 58×80×10 | 95×120×12 |
| 35×52×12 | 42×65×12 | 58×85×13 | 104.78×133.35×12.7 |
| 35×55×8 | 42×72×8 | 58×90×10 | 105×125×10 |
| 35×58×10 | 43×53×5 | 60×75×8 | 110×160×12 |
| 35×60×10 | 45×56×7 | 60×80×12 | 115×145×14 |
| 35×62×10 | 45×60×7 | 60×90×8 | 120×160×12 |
| 35×68×10 | 45×60×8 | 60×110×12 | 120×160×14 |
| 35×72×6.5 | 45×62×7 | 65×85×8 | 130×155×10 |
| 35×72×10 | 45×62×8 | 65×90×10 | 130×160×8 |
| 35×82×7 | 45×62×9 | 65×95×10 | 130×160×15 |
| 35×82×12 | 45×72×8 | 65×100×10 | 130×170×12 |
| 36×52×7 | 45×75×10 | 65×105×13 | 133.3×165.1×15.8 |
| 36×62×7 | 45×80×10 | 70×83×5 | 135×155×15 |
| 38×50×7 | 48×62×8 | 73×91×5 | 135×165×14 |
| 38×52×8 | 48×62×10 | 73.68×91.46×5.89 | 139.7×171.45×15.88 |
| 38×56×12 | 48×72×8 | 75×100×13 | 140×170×14 |
| 40×52×7 | 48×80×10 | 76.2×101.6×10.16 | 145×180×13 |
| 40×55×7 | 50×65×7 | 80×115×12 | 150×180×14 |
| 40×55×8 | 50×65×8 | 84.15×107.95×15.87 | 160×180×15 |
| 40×62×7 | 50×70×8 | 85×100×9 | |



SN70-TC00501607BA

S=Oil Seal

N=NBR(see material chart)

70=70(Shore A)

TC=Type

005=ID

016=OD

07=H

B=BLACK(color)



Array by inner Diameter

| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|-----------------|-----------------|-------------|-------------|
| 5×16×7 | 9×22×7 | 12×22×5 | 14×25×5 |
| 5×17×7 | 9×24×7 | 12×22×7 | 14×25×7 |
| 6×15×4 | 9.53×22.35×6.35 | 12×24×7 | 14×26×7 |
| 6×16×5 | 9.8×20×7 | 12×25×7 | 14×27×7 |
| 6×16×7 | 10×17×5 | 12×25×8 | 14×28×7 |
| 6×18×7 | 10×18×7 | 12×25×10 | 14×29×7 |
| 6×19×7 | 10×19×5 | 12×26×7 | 14×30×7 |
| 7×16×7 | 10×19×7 | 12×28×4 | 14×30×10 |
| 7×18×7 | 10×22×5 | 12×28×7 | 14×32×7 |
| 7×19×7 | 10×22×7 | 12×30×7 | 14×35×7 |
| 7×22×6 | 10×23×7 | 12×30×10 | 14×35×10 |
| 7×22×7 | 10×24×6 | 12×32×5 | 15×22×5 |
| 7.95×19.05×6.35 | 10×24×7 | 12×32×7 | 15×22×7 |
| 8×14.3×4 | 10×25×5 | 12×32×8 | 15×23×7 |
| 8×15×5 | 10×25×7 | 12×35×7 | 15×24×5 |
| 8×16×7 | 10×26×7 | 12×42×8 | 15×24×7 |
| 8×18×5 | 11×17×4 | 12×48×8 | 15×25×5 |
| 8×18×7 | 11×22×7 | 12.7×20×7 | 15×25×7 |
| 8×20×5 | 11×24×7 | 13×22×4 | 15×26×7 |
| 8×20×7 | 11×25×7 | 13×22×7 | 15×27×7 |
| 8×22×7 | 11×26×7 | 13×26×9 | 15×28×7 |
| 8×30×6 | 11×30×10 | 13×28×10 | 15×30×7 |
| 8×30×7 | 12×19×5 | 14×20×5 | 15×30×10 |
| 9×19×5 | 12×20×4 | 14×22×5 | 15×32×7 |
| 9×19×6 | 12×21×4 | 14×24×7 | 15×32×8 |

- when choosing oil seal, slight difference of height is workable.
- Custom Design Service can be furnished
- Small quantity is available



Array by inner Diameter

| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|-----------------|-------------|-------------|------------------|
| 15×35×5 | 17×27×10 | 18×30×5 | 19.05×28.58×6.35 |
| 15×35×7 | 17×28×4 | 18×30×6 | 19.05×38.1×6.35 |
| 15×35×10 | 17×28×6 | 18×30×7 | 19.05×41.27×7.92 |
| 15×40×10 | 17×28×7 | 18×30×10 | 20×28×6 |
| 15×42×10 | 17×29×5 | 18×32×7 | 20×28×7 |
| 15.88×25.4×6.35 | 17×30×7 | 18×32×8 | 20×30×5 |
| 16×24×5 | 17×30×8 | 18×35×7 | 20×30×7 |
| 16×24×7 | 17×30×10 | 18×35×8 | 20×32×6 |
| 16×25×6 | 17×32×7 | 18×35×10 | 20×32×7 |
| 16×26×6 | 17×32×8 | 18×38×7 | 20×32×10 |
| 16×26×7 | 17×33×7 | 18×40×7 | 20×34×7 |
| 16×27×6 | 17×34×4 | 18×40×10 | 20×35×7 |
| 16×28×7 | 17×35×7 | 18×47×10 | 20×35×8 |
| 16×29×6 | 17×35×8 | 19×27×4 | 20×35×10 |
| 16×30×5 | 17×37×7 | 19×27×8 | 20×35×12 |
| 16×30×7 | 17×37×10 | 19×30×5 | 20×36×5 |
| 16×30×10 | 17×40×5 | 19×30×7 | 20×36×7 |
| 16×32×7 | 17×40×6 | 19×32×7 | 20×36×8 |
| 16×32×10 | 17×40×7 | 19×35×7 | 20×37×7 |
| 16×35×7 | 17×47×7 | 19×35×8 | 20×37×8 |
| 16×35×10 | 17×47×8 | 19×35×10 | 20×38×5 |
| 16×40×10 | 18×25×7 | 19×37×10 | 20×38×7 |
| 17×25×4 | 18×28×5 | 19×38×10 | 20×38×10 |
| 17×25×7 | 18×28×6 | 19×47×7 | 20×40×7 |
| 17×27×7 | 18×28×7 | 19×47×10 | 20×40×8 |





Array by inner Diameter

| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|------------------|-------------|-------------|-----------------|
| 20×40×10 | 23×36×7 | 25×34×5 | 25×52×7 |
| 20×42×7 | 23×38×6 | 25×35×5 | 25×52×8 |
| 20×42×8 | 23×40×6 | 25×35×6 | 25×52×10 |
| 20×42×10 | 23×42×10 | 25×35×7 | 25×55×8 |
| 20×45×7 | 23×47×7 | 25×35×8 | 25×62×7 |
| 20×45×10 | 24×33×7 | 25×35×10 | 25×62×10 |
| 20×47×7 | 24×34×7 | 25×36×7 | 25.4×38.15×7.92 |
| 20×47×10 | 24×35×6 | 25×37×6 | 26×36×7 |
| 20×52×7 | 24×35×7 | 25×37×7 | 26×37×7 |
| 20×52×8 | 24×36×7 | 25×37×8 | 26×38×5 |
| 20×52×9 | 24×36×8 | 25×38×5 | 26×38×8 |
| 20×55×7 | 24×37×7 | 25×38×7 | 26×40×7 |
| 21×31×7 | 24×38×8 | 25×38×8 | 26×41×11 |
| 21×32×5 | 24×40×7 | 25×40×7 | 26×42×8 |
| 21×40×7 | 24×40×8 | 25×40×8 | 26×47×5 |
| 21.4×32×6 | 24×41×11 | 25×40×10 | 26×47×7 |
| 22×30×7 | 24×42×8 | 25×40×11 | 26×48×7 |
| 22×32×7 | 24×42×10 | 25×41×7 | 26×50×10 |
| 22×34×8 | 24×45×7 | 25×42×6 | 26×62×9 |
| 22×35×6 | 24×45×10 | 25×42×7 | 26×72×10 |
| 22×35×7 | 24×45×11 | 25×42×8 | 27×35×12 |
| 22×35×8 | 24×46×10 | 25×42×10 | 27×37×7 |
| 22×36×7 | 24×47×7 | 25×43×10 | 27×40×6 |
| 22×38×7 | 24×47×10 | 25×44×7 | 27×40×8 |
| 22.23×35.15×6.35 | 24×48×7 | 25×45×7 | 27×42×6 |
| 22×38×8 | 24×48×10 | 25×45×8 | 27×42×7 |
| 22×40×7 | 24×49×8 | 25×45×10 | 27×43×8 |
| 22×40×10 | 24×49×10 | 25×45×11 | 27×43×9 |
| 22×42×7 | 24×49×12 | 25×46×7 | 27×45×9 |
| 22×42×10 | 24×52×10 | 25×47×6 | 27×47×8 |
| 22×42×11 | 25×32×5 | 25×47×10 | 28×35×5 |
| 22×47×7 | 25×32×7 | 25×48×7 | 28×37×6 |
| 23×34×8 | 25×33×5 | 25×49×10 | 28×38×5 |
| 23×35×7 | 25×33×6 | 25×50×10 | 28×38×7 |

- when choosing oil seal, slight difference of height is workable.
- Custom Design Service can be furnished
- Small quantity is available



Array by inner Diameter

| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|-----------------|-------------|-----------------|------------------|
| 28×40×6 | 30×45×7 | 30×75×10 | 32×56×10 |
| 28×40×7 | 30×45×8 | 30×77×9 | 32×58×10 |
| 28×40×8 | 30×45×9 | 31×49×7 | 32×62×7 |
| 28×40×10 | 30×45×10 | 31×52×6 | 32×62×10 |
| 28×41×7 | 30×45.8×7 | 31.5×45×8 | 32×65×10 |
| 28×42×7 | 30×46×7 | 31.75×71.89×9.5 | 32×72×10 |
| 28×42×11 | 30×46×8 | 31.75×72×9.53 | 33×50×6 |
| 28×43×8 | 30×47×5 | 32×40×7 | 33×50×10 |
| 28×45×7 | 30×47×7 | 32×42×7 | 33×52×6 |
| 28×45×8 | 30×47×10 | 32×43×7 | 33×55×10 |
| 28×45×9 | 30×48×7 | 32×44×7 | 33×66×12 |
| 28×45×10 | 30×48×8 | 32×44×8 | 33.33×72.23×9.5 |
| 28×47×7 | 30×48×10 | 32×44.5×5 | 34×44×8 |
| 28×47×8 | 30×50×7 | 32×44.96×7.01 | 34×46×8 |
| 28×47×10 | 30×50×8 | 32×45×6 | 34×47×10 |
| 28×48×7 | 30×50×10 | 32×45×7 | 34×48×7 |
| 28×48×8 | 30×52×7 | 32×45×8 | 34×50×7 |
| 28×48×10 | 30×52×8 | 32×46×7 | 34×50×10 |
| 28×50×8 | 30×52×10 | 32×46×8 | 34×52×10 |
| 28×50×10 | 30×55×7 | 32×47×7 | 34×57×9 |
| 28×52×7 | 30×55×8 | 32×47×10 | 34×62×10 |
| 28×52×10 | 30×55×10 | 32×48×7 | 34×72×10 |
| 28×60×10 | 30×56×10 | 32×48×8 | 34.29×57.15×7.92 |
| 28×62×10 | 30×58×10 | 32×48×10 | 34.5×56×12 |
| 28.7×47.75×6.35 | 30×60×10 | 32×50×7 | 35×42×5 |
| 29×50×10 | 30×60×12 | 32×52×5 | 35×42×8 |
| 29.36×50.8×6.35 | 30×62×7 | 32×52×7 | 35×45×7 |
| 30×38×5 | 30×62×8 | 32×52×10 | 35×45×10 |
| 30×40×7 | 30×62×10 | 32×52×11 | 35×47×7 |
| 30×41×7 | 30×62×12 | 32×52×12 | 35×48×7 |
| 30×42×5 | 30×65×10 | 32×53×7 | 35×48×8 |
| 30×42×7 | 30×72×8 | 32×54×10 | 35×48×10 |
| 30×42×8 | 30×72×9.52 | 32×55×7 | 35×50×7 |
| 30×44×7 | 30×72×10 | 32×55×8 | 35×50×8 |





Array by inner Diameter

| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|-------------|-------------|-----------------|-------------|
| 35×50×9 | 35×80×8 | 38×62×12 | 40×64×10 |
| 35×50×10 | 35×80×10 | 38×65×10 | 40×64×12 |
| 35×50×12 | 35×82×7 | 38×68×10 | 40×65×7 |
| 35×52×6 | 36×46×7 | 38×72×8 | 40×65×10 |
| 35×52×7 | 36×47×7 | 38×74×11 | 40×65×12 |
| 35×52×8 | 36×49×7 | 38×85×12 | 40×68×6 |
| 35×52×10 | 36×50×7 | 38.1×65.05×12.7 | 40×68×10 |
| 35×53×10 | 36×52×7 | 39×46×6 | 40×70×8 |
| 35×54×8 | 36×52×10 | 40×50×7 | 40×70×10 |
| 35×55×8 | 36×54×7 | 40×50×10 | 40×70×12 |
| 35×55×10 | 36×58×8 | 40×52×5 | 40×72×7 |
| 35×55×11 | 36×62×10 | 40×52×7 | 40×72×10 |
| 35×55×12 | 36×68×10 | 40×52×8 | 40×72×12 |
| 35×56×8 | 37×53×7 | 40×54×7 | 40×75×8 |
| 35×56×10 | 37×64×13 | 40×54×8 | 40×75×12 |
| 35×56×12 | 38×50×7 | 40×55×7 | 40×80×7 |
| 35×57×8 | 38×50×8 | 40×55×8 | 40×80×8 |
| 35×58×10 | 38×50×10 | 40×55×10 | 40×80×10 |
| 35×58×11 | 38×52×7 | 40×56×8 | 40×80×13 |
| 35×58×12 | 38×52×11 | 40×56×10 | 40×85×10 |
| 35×60×10 | 38×54×10 | 40×56×12 | 41×56×10 |
| 35×60×12 | 38×55×7 | 40×58×8 | 42×52×4 |
| 35×62×5 | 38×55×8 | 40×58×10 | 42×52×10 |
| 35×62×6 | 38×55×10 | 40×60×7 | 42×55×7 |
| 35×62×7 | 38×56×10 | 40×60×8 | 42×55×8 |
| 35×62×8 | 38×56×12 | 40×60×10 | 42×56×7 |
| 35×62×10 | 38×58×8 | 40×60×12 | 42×56×10 |
| 35×62×12 | 38×58×11 | 40×62×5 | 42×58×8 |
| 35×65×7 | 38×59×8 | 40×62×7 | 42×58×10 |
| 35×65×10 | 38×60×7 | 40×62×8 | 42×60×7 |
| 35×70×10 | 38×60×10 | 40×62×9 | 42×60×9 |
| 35×72×7 | 38×62×7 | 40×62×10 | 42×60×10 |
| 35×72×8 | 38×62×8 | 40×62×11 | 42×62×7 |
| 35×72×10 | 38×62×10 | 40×62×12 | 42×62×8 |

- when choosing oil seal, slight difference of height is workable.
- Custom Design Service can be furnished
- Small quantity is available



Array by inner Diameter

| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|------------------|-------------|---------------|-------------|
| 42×62×10 | 45×56×8 | 45×80×12 | 49×71×10 |
| 42×62×12 | 45×57×9 | 45×85×10 | 49×71.98×10 |
| 42×63×8 | 45×58×7 | 45×90×10 | 49.5×70×10 |
| 42×64×8 | 45×58×10 | 45×100×8 | 50×58×4 |
| 42×65×8 | 45×59×7 | 45×100×10 | 50×60×7 |
| 42×65×9 | 45×60×7 | 46×60×10 | 50×60×8 |
| 42×65×10 | 45×60×8 | 46×62×8 | 50×62×7 |
| 42×65×12 | 45×60×9 | 46×70×12 | 50×62×8 |
| 42×68×8 | 45×60×10 | 47×65.07×6.35 | 50×63×8 |
| 42×68×12 | 45×60×12 | 47×69×7 | 50×65×7 |
| 42×70×10 | 45×62×7 | 47×77×7 | 50×65×8 |
| 42×70×10 | 45×62×8 | 48×60×7 | 50×65×9 |
| 42×72×8 | 45×62×9 | 48×60×9 | 50×65×10 |
| 42×72×10 | 45×62×10 | 48×60×10 | 50×67×11 |
| 42×72×12 | 45×62×12 | 48×62×7 | 50×68×7 |
| 42×75×10 | 45×65×8 | 48×62×8 | 50×68×8 |
| 42×75×12 | 45×65×9 | 48×65×9 | 50×68×9 |
| 42×76×12 | 45×65×10 | 48×65×10 | 50×68×10 |
| 42×78×10 | 45×65×12 | 48×65×12 | 50×69×7 |
| 43×54×7 | 45×68×7 | 48×68×7 | 50×70×8 |
| 43×62×8 | 45×68×8 | 48×68×10 | 50×70×9 |
| 43×63×9 | 45×68×10 | 48×70×8 | 50×70×10 |
| 44×54×7 | 45×68×12 | 48×70×9 | 50×70×12 |
| 44×60×4 | 45×70×10 | 48×70×10 | 50×72×7 |
| 44×60×7 | 45×70×12 | 48×70×12 | 50×72×8 |
| 44×60×10 | 45×72×7 | 48×72×8 | 50×72×9 |
| 44×62×8 | 45×72×8 | 48×72×10 | 50×72×10 |
| 44×63×7 | 45×72×10 | 48×74×10 | 50×72×12 |
| 44×67×10 | 45×72×12 | 48×75×10 | 50×75×8 |
| 44×69×7 | 45×72×13 | 48×80×10 | 50×75×10 |
| 44.45×57.15×9.53 | 45×75×8 | 48×82×11 | 50×75×12 |
| 45×55×6 | 45×75×10 | 48×85×10 | 50×76×9 |
| 45×55×7 | 45×75×12 | 48×90×12 | 50×76×12 |
| 45×55×10 | 45×80×10 | 48×90×13 | 50×80×8 |





Array by inner Diameter

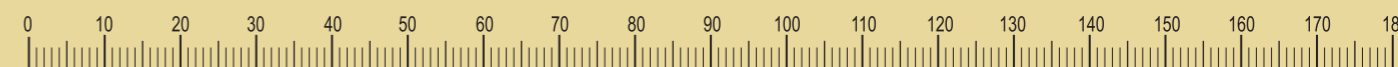
| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|------------------|-------------|------------------|-----------------|
| 50×80×10 | 54×81×10 | 56×75×8 | 60×82×9 |
| 50×80×12 | 54×82×10 | 56×76×10 | 60×82×10 |
| 50×80×13 | 54×140×12 | 56×80×8 | 60×82×12 |
| 50×85×10 | 54.5×80×12 | 56×85×8 | 60×84×10 |
| 50×90×10 | 55×65×8 | 56×100×10 | 60×85×8 |
| 50.8×69.85×11.13 | 55×68×8 | 57×67×7 | 60×85×10 |
| 50×90×13 | 55×70×8 | 57×72×9 | 60×85×12 |
| 50.8×76.2×7.95 | 55×70×10 | 57×75×7 | 60×85×13 |
| 52×62×10 | 55×70×12 | 57×80×12 | 60×86×10 |
| 52×63×10 | 55×72×8 | 57×85×10 | 60×90×8 |
| 52×65×9 | 55×72×9 | 57.15×69.85×12.7 | 60×90×10 |
| 52×68×8 | 55×72×10 | 57.15×76.2×9.53 | 60×90×12 |
| 52×68×10 | 55×75×8 | 58×72×8 | 60×90×13 |
| 52×68×13 | 55×75×10 | 58×72×9 | 60×95×10 |
| 52×70×8 | 55×75×12 | 58×72×10 | 60×100×10 |
| 52×70×9 | 55×78×8 | 58×74×10 | 60×110×12 |
| 52×70×10 | 55×78×9 | 58×75×9 | 62×80×10 |
| 52×70×12 | 55×78×10 | 58×80×8 | 62×80×12 |
| 52×72×8 | 55×78×12 | 58×80×10 | 62×85×10 |
| 52×72×10 | 55×78×15 | 58×80×12 | 62×85×13 |
| 52×72×12 | 55×80×8 | 59.6×72×7 | 62×90×10 |
| 52×75×10 | 55×80×10 | 60×72×7 | 62×90×13 |
| 52×75×12 | 55×80×12 | 60×72×8 | 62×93×12 |
| 52×80×10 | 55×82×12 | 60×74×10 | 62×110×13 |
| 52×85×10 | 55×85×8 | 60×75×8 | 62×120×12 |
| 52×100×10 | 55×85×10 | 60×75×9 | 63×79.6×8 |
| 52.4×79.4×9.5 | 55×85×12 | 60×75×10 | 63×80×9 |
| 53×76×13 | 55×90×10 | 60×75×12 | 63×85×10 |
| 53×78×12 | 55×100×10 | 60×80×7 | 63×88×11 |
| 54×65×10 | 55×100×12 | 60×80×8 | 63×88×12 |
| 54×68×10 | 55×110×12 | 60×80×9 | 63×89×11 |
| 54×70×8 | 56×67×7 | 60×80×10 | 63×90×10 |
| 54×72×10 | 56×72×8 | 60×80×12 | 63.5×82.55×11.1 |
| 54×80×10 | 56×72×10 | 60×82×7 | 63.5×88.9×11.12 |

- when choosing oil seal, slight difference of height is workable.
- Custom Design Service can be furnished
- Small quantity is available



Array by inner Diameter

| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|------------------|--------------|------------------|-------------------|
| 63.5×89.92×9.53 | 70×80×10 | 73×92.08×9 | 80×110×12 |
| 64×85×10 | 70×82×7 | 73.66×91.44×5.84 | 80×115×13 |
| 65×78×8 | 70×85×8 | 74×90×7 | 80×150×12 |
| 65×80×8 | 70×85×10 | 74×100×10 | 81.5×100×12 |
| 65×80×10 | 70×87×10 | 74.5×100×12 | 82×105×12 |
| 65×80×12 | 70×88×12 | 74.6×93×8 | 82×160×13 |
| 65×82×12 | 70×90×7 | 75×90×10 | 82.5×112×12 |
| 65×85×10 | 70×90×10 | 75×95×10 | 84×110×16 |
| 65×85×12 | 70×90×12 | 75×95×12 | 84.15×107.95×15.8 |
| 65×88×12 | 70×92×10 | 75×95×13 | 84.4×105×8 |
| 65×90×8 | 70×92×12 | 75×100×10 | 84.4×105×12 |
| 65×90×10 | 70×92×13 | 75×100×12 | 85×100×10 |
| 65×90×12 | 70×95×10 | 75×100×13 | 85×100×13 |
| 65×90×13 | 70×95×12 | 75×105×12 | 85×105×8 |
| 65×92×10 | 70×95×13 | 75×105×13 | 85×105×10 |
| 65×95×10 | 70×100×10 | 75×110×10 | 85×105×12 |
| 65×95×12 | 70×100×12 | 75×110×13 | 85×105×13 |
| 65×100×10 | 70×100×13 | 75×115×10 | 85×105×15 |
| 65×100×12 | 70×101.5×9.5 | 75×120×12 | 85×110×10 |
| 65×110×13 | 70×102×13 | 76×102×13 | 85×110×12 |
| 65×115×12 | 70×105×10 | 76.2×95.25×11.13 | 85×110×13 |
| 66.8×85.09×9.65 | 70×110×8 | 77×96×10 | 85×110×16 |
| 67×82×7 | 70×110×13 | 78×100×10 | 85×115×13 |
| 68×82×7 | 70×112×12 | 78×100×13 | 85×115×15 |
| 68×85×10 | 70×125×10 | 79.5×100×12 | 85×120×12 |
| 68×85×13 | 71.5×95×12 | 80×95×8 | 85×120×13 |
| 68×90×10 | 72×90×10 | 80×100×7 | 85×125×12 |
| 68×90×12 | 72×95×12 | 80×100×10 | 85×130×12 |
| 68×90×13 | 72×96×9 | 80×100×12 | 85×140×12 |
| 68×100×12 | 72×100×10 | 80×100×13 | 88.9×114.3×11.13 |
| 68.5×101.6×9.5 | 72×105×13 | 80×105×10 | 88.9×120.65×11.09 |
| 69×89×13 | 72×140×8 | 80×105×12 | 89.5×115×12 |
| 69.5×88×12 | 72×140×12 | 80×105×13 | 90×105×10 |
| 69.85×82.55×9.53 | 73×92×9 | 80×110×10 | 90×110×8 |





Array by inner Diameter

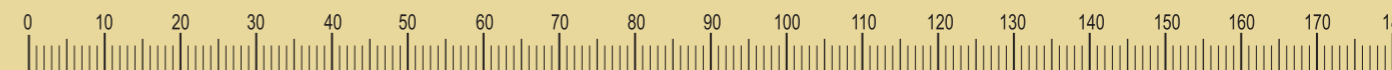
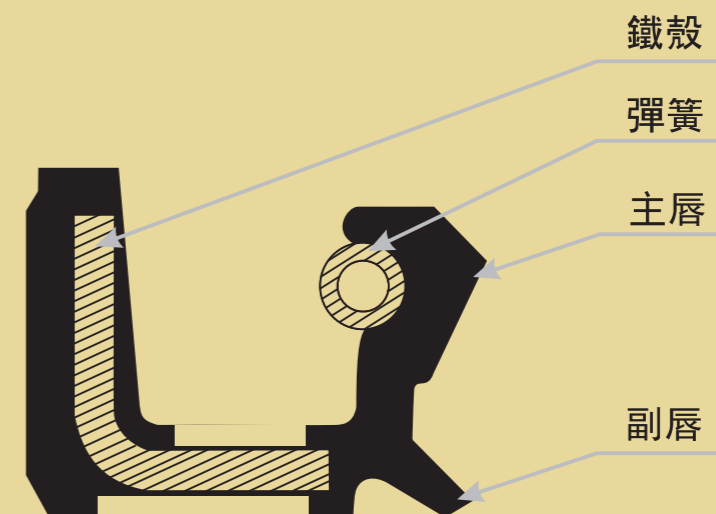
| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|-------------------|------------------|-------------------|-------------------|
| 90×110×10 | 98.4×130.1×11.09 | 110×145×15 | 125×160×12 |
| 90×110×12 | 99.3×125×12 | 110×170×12 | 125×160×13 |
| 90×110×13 | 100×120×12 | 111×146×12 | 125×165×16 |
| 90×115×12 | 100×120×13 | 111×146.1×14 | 125.41×152.4×12.7 |
| 90×115×13 | 100×125×10 | 113.5×146×14 | 127×165.1×12.7 |
| 90×118×12 | 100×125×12 | 114×139×12 | 129.6×150×14 |
| 90×120×12 | 100×125×13 | 114.3×136.52×11.1 | 130×150×7.5 |
| 90×120×13 | 100×130×10 | 114.4×140×16 | 130×150×14.5 |
| 90×125×12 | 100×130×12 | 115×130×12 | 130×160×12 |
| 90×125×13 | 100×130×13 | 115×140×12 | 130×160×13 |
| 90×135×15 | 100×140×13 | 115×140×13 | 130×160×14 |
| 90×140×10 | 100×150×13 | 115×140×14 | 130×160×15 |
| 92×111×9 | 101.5×130.2×13 | 115×140×16 | 130×165×13 |
| 92×120×12 | 102×150×12 | 115×145×13 | 130×170×12 |
| 93.98×120.65×12.7 | 103.5×128×12 | 115×145×14 | 130×170×14 |
| 94.5×114.6×8 | 104×135×14 | 115×150×12 | 130×180×14 |
| 94.5×114.6×12 | 105×120×7 | 116×135×13 | 133×157×14 |
| 94.5×115×12 | 105×130×10 | 120×140×10 | 135×160×12 |
| 95×110×10 | 105×130×12 | 120×140×12 | 135×160×13 |
| 95×114.6×8 | 105×130×13 | 120×140×14 | 135×160×15 |
| 95×114.6×12 | 105×130×14 | 120×150×12 | 135×165×12 |
| 95×115×7 | 105×135×14 | 120×150×14 | 135×165×13 |
| 95×115×12 | 105×140×13 | 120×150×15 | 135×165×14 |
| 95×115×13 | 105×140×14 | 120×155×15 | 135×165×15 |
| 95×119×12 | 105×145×14 | 120×155×20 | 135×170×10 |
| 95×120×10 | 105×160×12 | 120×160×12 | 135×170×12 |
| 95×120×12 | 106×130×14 | 120×160×13 | 139×170×14 |
| 95×120×13 | 108×170×15 | 120×160×14 | 140×160×12 |
| 95×125×12 | 110×125×9 | 120×160×15 | 140×160×13 |
| 95×130×12 | 110×130×12 | 120×180×15 | 140×160×14 |
| 95×135×13 | 110×130×13 | 122×138×12 | 140×165×13 |
| 95×145×13 | 110×140×12 | 125×150×12 | 140×170×8 |
| 95×170×13 | 110×140×13 | 125×150×15 | 140×170×12 |
| 96×130×12 | 110×140×14 | 125×155×14 | 140×170×14 |

- when choosing oil seal, slight difference of height is workable.
- Custom Design Service can be furnished
- Small quantity is available



Array by inner Diameter

| (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm | (ID×OD×H)mm |
|----------------|--------------|---------------------|-------------|
| 140×170×15 | 150×190×15 | 170×200×16 | 200×240×16 |
| 140×170×16 | 152.6×175×13 | 170×210×15 | 200×240×18 |
| 140×180×14 | 154×180×12 | 171.4×203.2×15.87 | 200×240×20 |
| 142×165×12 | 155×175×12 | 175×200×15 | 210×240×15 |
| 142×170×15 | 155×180×13 | 180×200×15 | 220×240×16 |
| 144×174.5×12.7 | 155×180×15 | 180×210×13 | 220×250×15 |
| 145×175×14 | 160×180×13 | 180×210×15 | 220×260×15 |
| 145×175×15 | 160×185×12 | 180×210×16 | 230×260×15 |
| 146×171×12 | 160×190×13 | 180×220×10 | 240×270×15 |
| 150×170×15 | 160×190×14 | 180×215×15 | 240×280×18 |
| 150×180×12 | 160×190×15 | 180×220×16 | 260×300×20 |
| 150×180×13 | 160×190×16 | 180×220×15 | 280×320×18 |
| 150×180×14 | 170×190×8.5 | 187.45×212.73×11.18 | 320×360×20 |
| 150×180×15 | 170×200×12 | 190×220×15 | 400×440×20 |
| 150×180×16 | 170×200×13 | 190×220×16 | |
| 150×180×17 | 170×200×15 | 200×230×15 | |





PU Seal is mainly used in oil cylinder, can be easily fixed and scrape the dust and dirt off the piston. (Hardness of green PU is relatively lower, while blue ones is higher and with greater pressure endurance. See <used abroad>)

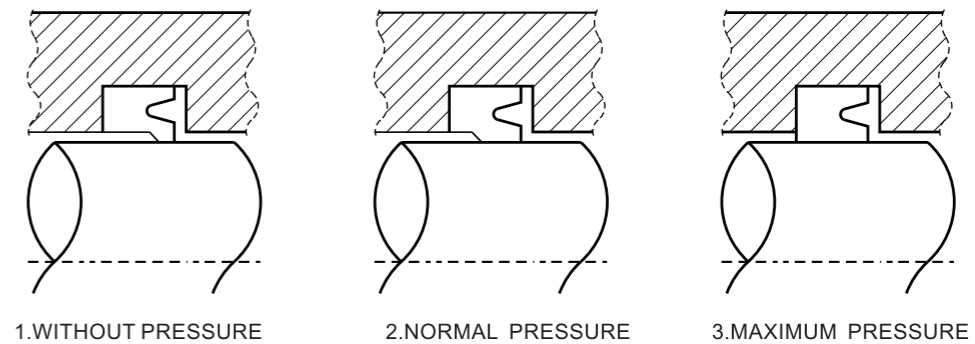
PU seal has good mechanical, wear-proof and oil-proof property, most frequently used in hydraulic oil cylinder with medium and high pressure.

U-ring is the most frequently used seal in hydraulic cylinder. It's typical lip seal, which is able to gain good seal effect no matter in piston or piston rod.

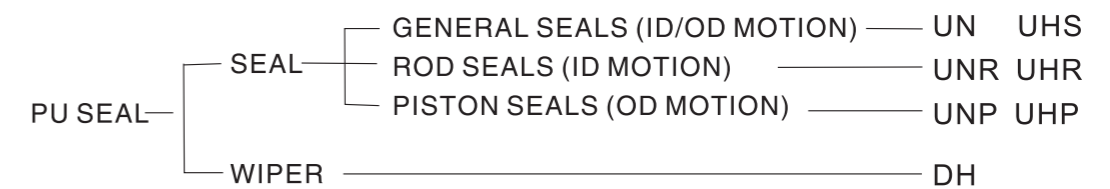


PU Seals are the most important parts for a Hydrodynamic system. It may produce and put a lot power with an extremely small motor, which can activate heavyduty machinery.

PU Seals working in a reciprocating motion. It can take extremely high pressure (max about 750kg/cm²) with a slower motion of speed (about 300mm/sec). When the working pressure increase .The lips of PU Seals will enlarge, Contacting the surface by the pressure of fluid (please see diagrams)

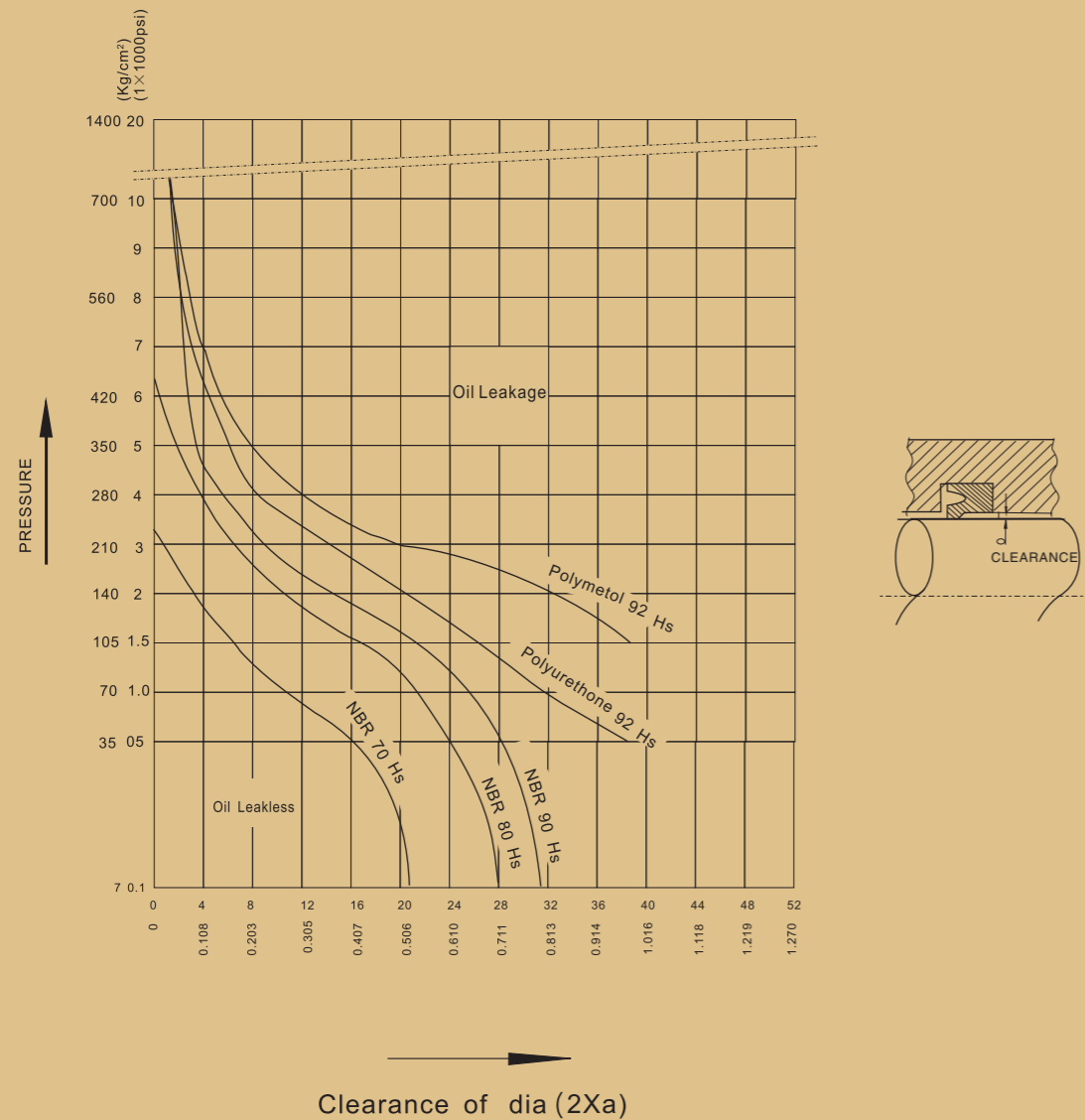


TYPE OF PU SEAL PER FUNCTION REQUIREMENT:





THE RELATION OF CLEARANCE & PRESSURE



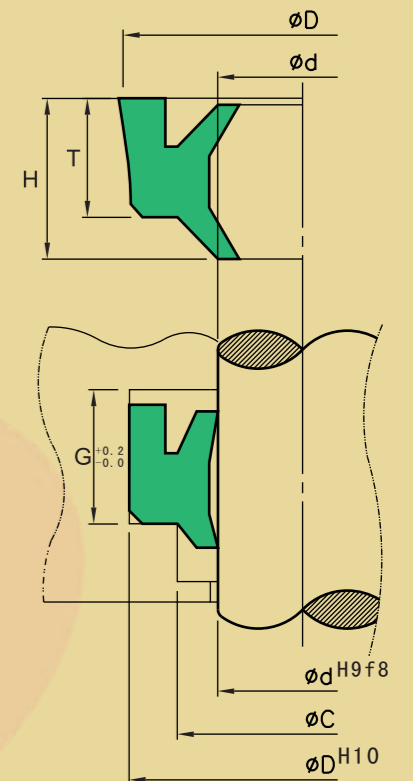
PU90-DH011.2
 PU=PU
 90=90(Shore A)
 DH=Type
 011.2=Standard NO



DH=(Dust Application)

(Unit:mm)

| NO. | d | D | H | T | C | G |
|----------|------|------|------|-----|------|---|
| DH 011.2 | 11.2 | 19.2 | 6 | 4.5 | 15.5 | 5 |
| DH 014.0 | 14 | 22 | | | 18.3 | |
| DH 018.0 | 18 | 26 | | | 22.3 | |
| DH 020.0 | 20 | 28 | | | 24.3 | |
| DH 022.4 | 22.4 | 30.4 | | | 26.7 | |
| DH 023.5 | 23.5 | 31.5 | | | 27.8 | |
| DH 025.0 | 25 | 33 | | | 29.3 | |
| DH 028.0 | 28 | 36 | | | 32.3 | |
| DH 030.0 | 30 | 38 | | | 34 | |
| DH 031.5 | 31.5 | 39.5 | | | 35.5 | |
| DH 035.0 | 35 | 43 | 39 | 6.5 | 5 | |
| DH 035.5 | 35.5 | 43.5 | 39.5 | | | |
| DH 040.0 | 40 | 48 | 44 | | | |
| DH 045.0 | 45 | 53 | 49 | | | |
| DH 050.0 | 50 | 58 | 54 | | | |
| DH 053.0 | 53 | 61 | 57 | | | |
| DH 055.0 | 55 | 63 | 59 | | | |
| DH 056.0 | 56 | 64 | 60 | | | |
| DH 060.0 | 60 | 68 | 64 | | | |
| DH 063.0 | 63 | 71 | 67 | | | |
| DH 065.0 | 65 | 73 | 69 | 8 | 6 | |
| DH 067.0 | 67 | 75 | 71 | | | |
| DH 070.0 | 70 | 80 | 75 | | | |
| DH 071.0 | 71 | 81 | 76 | | | |
| DH 075.0 | 75 | 85 | 80 | | | |
| DH 080.0 | 80 | 90 | 85 | | | |
| DH 085.0 | 85 | 95 | 90 | | | |
| DH 090.0 | 90 | 100 | 95 | | | |
| DH 098.0 | 98 | 108 | 103 | | | |
| DH 100.0 | 100 | 110 | 105 | | | |
| DH 112.0 | 112 | 122 | 117 | 9.5 | 7 | |
| DH 125.0 | 125 | 138 | 132 | | | |
| DH 136.0 | 136 | 149 | 143 | | | |
| DH 140.0 | 140 | 153 | 147 | | | |
| DH 145.0 | 145 | 158 | 152 | | | |
| DH 160.0 | 160 | 174 | 167 | | | |
| DH 165.0 | 165 | 179 | 172 | | | |
| DH 180.0 | 180 | 194 | 187 | | | |
| DH 200.0 | 200 | 214 | 207 | | | |
| DH 204.0 | 204 | 218 | 211 | | | |
| DH 230.0 | 230 | 244 | 237 | | | |

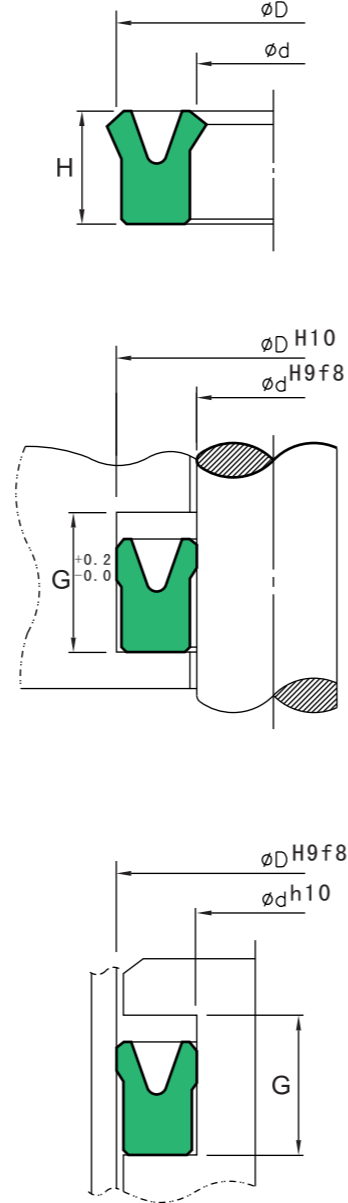


- When choosing an PU seal, the height is not the most consideration
- Custom engineered can be furnished
- Small quantity is available
- The Q'ty of inventory can be seen on EK's web site



UHS=(Both ROD and Piston Application) (Unit:mm)

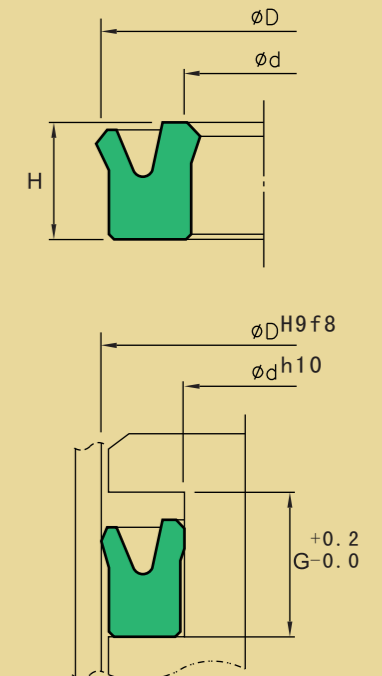
| NO. | d | D | H | G |
|-----------|------|------|---|-----|
| UHS 011.2 | 11.2 | 19.2 | 5 | 5.7 |
| UHS 014 | 14 | 22 | | |
| UHS 016 | 16 | 24 | | |
| UHS 018 | 18 | 26 | | |
| UHS 020 | 20 | 28 | | |
| UHS 022.4 | 22.4 | 30 | | |
| UHS 023.5 | 23.5 | 31.5 | | |
| UHS 025 | 25 | 33 | | |
| UHS 028 | 28 | 35.5 | | |
| UHS 030 | 30 | 40 | | |
| UHS 031.5 | 31.5 | 41.5 | 6 | 7 |
| UHS 035 | 35 | 45 | | |
| UHS 035.5 | 35.5 | 45 | | |
| UHS 038 | 38 | 48 | | |
| UHS 040 | 40 | 50 | | |
| UHS 045A | 45 | 55 | | |
| UHS 045 | 45 | 56 | | |
| UHS 050 | 50 | 60 | | |
| UHS 053 | 53 | 63 | | |
| UHS 055 | 55 | 65 | | |
| UHS 056 | 56 | 66 | 6 | 7 |
| UHS 058 | 58 | 68 | | |
| UHS 060A | 60 | 70 | | |
| UHS 060 | 60 | 71 | | |
| UHS 063 | 63 | 73 | | |
| UHS 065 | 65 | 75 | | |
| UHS 067 | 67 | 77 | | |
| UHS 070 | 70 | 80 | | |
| UHS 071 | 71 | 80 | | |
| UHS 075 | 75 | 85 | | |
| UHS 080 | 80 | 90 | 9 | 10 |
| UHS 085 | 85 | 100 | | |
| UHS 090 | 90 | 105 | | |
| UHS 095 | 95 | 110 | | |
| UHS 098 | 98 | 112 | | |
| UHS 100 | 100 | 115 | | |
| UHS 112 | 112 | 125 | | |
| UHS 125 | 125 | 140 | | |
| UHS 136 | 136 | 150 | | |
| UHS 140 | 140 | 155 | | |
| UHS 145 | 145 | 160 | 9 | 10 |
| UHS 150 | 150 | 165 | | |
| UHS 160 | 160 | 175 | | |
| UHS 165 | 165 | 180 | | |
| UHS 180 | 180 | 200 | | |
| UHS 200 | 200 | 220 | | |
| UHS 204 | 204 | 224 | | |
| UHS 230 | 230 | 250 | | |



UHP=(Piston Application) (Unit:mm)

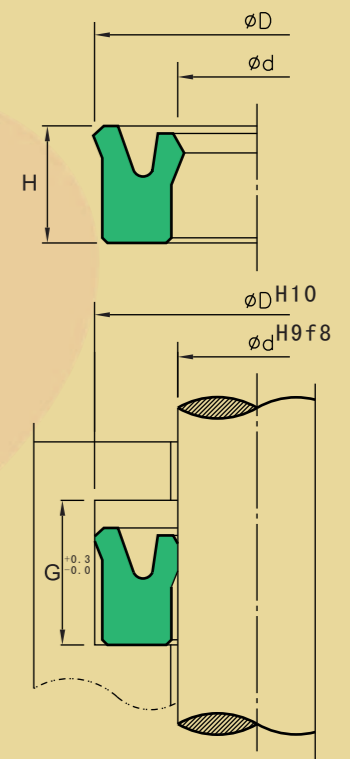
| NO. | d | D | H | G |
|---------|-----|-----|------|-----|
| UHP 040 | 30 | 40 | 6.5 | 7.0 |
| UHP 050 | 40 | 50 | | |
| UHP 063 | 53 | 63 | | |
| UHP 080 | 71 | 80 | | |
| UHP 090 | 80 | 90 | | |
| UHP 100 | 85 | 100 | 9.5 | 10 |
| UHP 125 | 112 | 125 | 9.0 | 9.5 |
| UHP 140 | 125 | 140 | 9.5 | 10 |
| UHP 150 | 136 | 150 | 9.0 | 9.5 |
| UHP 160 | 145 | 160 | 9.5 | 10 |
| UHP 180 | 165 | 180 | | |
| UHP 200 | 180 | 200 | 12.5 | 13 |
| UHP 220 | 200 | 220 | | |
| UHP 224 | 204 | 224 | | |
| UHP 250 | 230 | 250 | | |

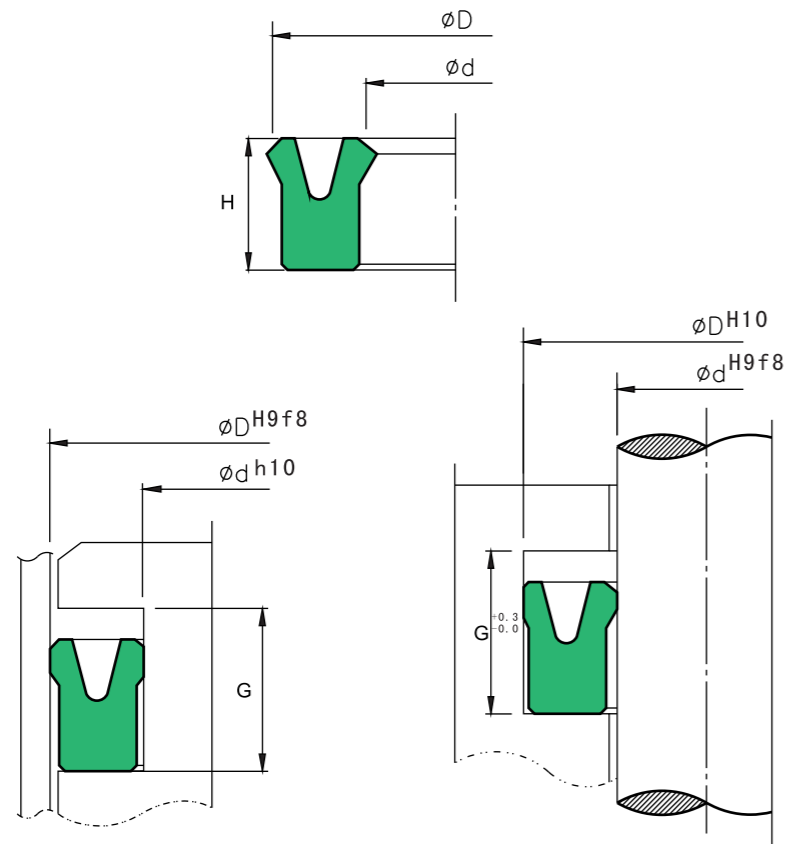
- When choosing an PU seal, the height is not the most consideration
- Custom engineered can be furnished
- Small quantity is available
- The Q'ty of inventory can be seen on EK's web site



UHR=(ROD Application) (Unit:mm)

| NO. | d | D | H | G |
|-----------|------|------|------|-----|
| UHR 018 | 18 | 26 | 5.2 | 5.7 |
| UHR 022.4 | 22.4 | 30 | | |
| UHR 028 | 28 | 35.5 | | |
| UHR 035.5 | 35.5 | 45 | 6.5 | 7 |
| UHR 045 | 45 | 56 | 7.5 | 8 |
| UHR 050 | 50 | 60 | 6.5 | 7 |
| UHR 056 | 56 | 66 | | |
| UHR 063 | 63 | 73 | | |
| UHR 067 | 67 | 77 | | |
| UHR 071 | 71 | 80 | | |
| UHR 080 | 80 | 90 | 9.5 | 10 |
| UHR 085 | 85 | 100 | | |
| UHR 090 | 90 | 105 | | |
| UHR 100 | 100 | 115 | | |
| UHR 112 | 112 | 125 | | |
| UHR 125 | 125 | 140 | 9.5 | 10 |
| UHR 140 | 140 | 155 | | |
| UHR 160 | 160 | 175 | | |
| UHR 165 | 165 | 180 | | |
| UHR 180 | 180 | 200 | | |
| UHR 200 | 200 | 220 | 12.5 | 13 |





UN=(Both ROD and Piston Application)

| NO. | d | D | H | G | | |
|----------|------|------|------|----|----|----|
| UN 006.3 | 6.3 | 16.3 | 8 | 9 | | |
| UN 007.1 | 7.1 | 17.1 | | | | |
| UN 008 | 8 | 18 | | | | |
| UN 009 | 9 | 19 | | | | |
| UN 010 | 10 | 20 | | | | |
| UN 011.2 | 11.2 | 21.2 | | | | |
| UN 012.5 | 12.5 | 22.5 | | | | |
| UN 014 | 14 | 24 | | | | |
| UN 015 | 15 | 25 | | | | |
| UN 016 | 16 | 26 | | | | |
| UN 018 | 18 | 28 | | | | |
| UN 020 | 20 | 30 | | | | |
| UN 022.4 | 22.4 | 32.4 | | | | |
| UN 025 | 25 | 35 | | | | |
| UN 028 | 28 | 43 | 10.2 | 11 | | |
| UN 030 | 30 | 45 | | | | |
| UN 031.5 | 31.5 | 46.5 | | | | |
| UN 035 | 35 | 50 | | | | |
| UN 035.5 | 35.5 | 50.5 | | | | |
| UN 040 | 40 | 55 | | | | |
| UN 045 | 45 | 60 | | | | |
| UN 048 | 48 | 63 | | | | |
| UN 050 | 50 | 65 | | | | |
| UN 053 | 53 | 73 | | | 12 | 13 |

(Unit:mm)

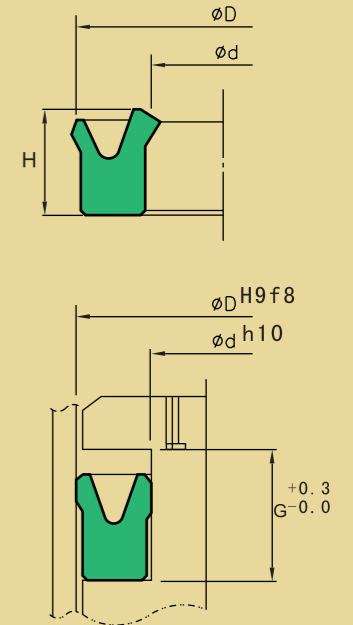
| NO. | d | D | H | G |
|--------|-----|-----|----|----|
| UN 055 | 55 | 75 | 12 | 13 |
| UN 056 | 56 | 76 | | |
| UN 060 | 60 | 80 | | |
| UN 063 | 63 | 83 | | |
| UN 065 | 65 | 85 | | |
| UN 067 | 67 | 87 | | |
| UN 070 | 70 | 90 | | |
| UN 071 | 71 | 91 | | |
| UN 075 | 75 | 95 | | |
| UN 080 | 80 | 100 | | |
| UN 085 | 85 | 105 | 16 | 17 |
| UN 090 | 90 | 110 | | |
| UN 095 | 95 | 115 | | |
| UN 100 | 100 | 120 | | |
| UN 105 | 105 | 125 | | |
| UN 106 | 106 | 126 | | |
| UN 110 | 110 | 130 | | |
| UN 112 | 112 | 132 | | |
| UN 118 | 118 | 138 | | |
| UN 120 | 120 | 140 | | |
| UN 125 | 125 | 145 | | |
| UN 130 | 130 | 150 | | |
| UN 140 | 140 | 160 | | |
| UN 150 | 150 | 170 | | |



UNP=(Piston Application)

(Unit:mm)

| NO. | d | D | H | G |
|---------|-----|-----|----|----|
| UNP 180 | 155 | 180 | 16 | 17 |
| UNP 190 | 165 | 190 | | |
| UNP 200 | 175 | 200 | | |
| UNP 205 | 180 | 205 | | |
| UNP 215 | 190 | 215 | | |
| UNP 224 | 199 | 224 | | |
| UNP 237 | 212 | 237 | 19 | 20 |
| UNP 250 | 225 | 250 | | |
| UNP 261 | 236 | 261 | | |
| UNP 275 | 250 | 275 | | |
| UNP 280 | 255 | 280 | | |
| UNP 295 | 265 | 295 | | |
| UNP 300 | 270 | 300 | | |
| UNP 310 | 280 | 310 | | |
| UNP 330 | 300 | 330 | | |



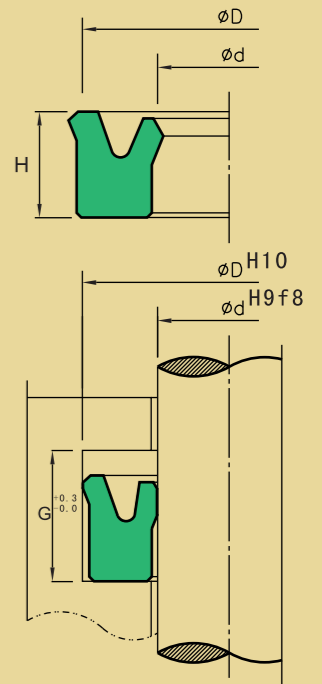
- When choosing an PU seal, the height is not the most consideration
- Custom engineered can be furnished
- Small quantity is available
- The Q'ty of inventory can be seen on EK's web site

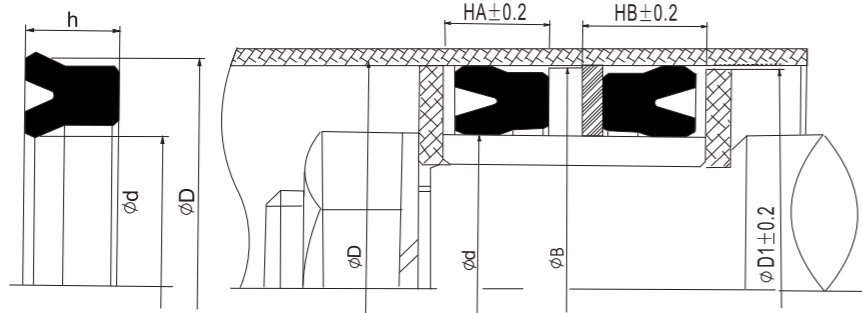


UNR=(ROD Application)

(Unit:mm)

| NO. | d | D | H | G |
|---------|-----|-----|----|----|
| UNR 160 | 160 | 185 | 16 | 17 |
| UNR 170 | 170 | 195 | | |
| UNR 180 | 180 | 205 | | |
| UNR 190 | 190 | 215 | | |
| UNR 200 | 200 | 225 | | |
| UNR 212 | 212 | 237 | | |
| UNR 224 | 224 | 249 | 19 | 20 |
| UNR 230 | 230 | 255 | | |
| UNR 236 | 236 | 261 | | |
| UNR 250 | 250 | 275 | | |
| UNR 265 | 265 | 295 | | |
| UNR 270 | 270 | 300 | | |
| UNR 280 | 280 | 310 | | |





| Actual Size | | | Nominal Size | | | | | EK NO. | EK NO. | |
|-------------|------|----|--------------|------|---------------|---------------|----|--------|---------------|---------------|
| d | D | h | d | D | D1 | HA | HB | C | | |
| 30 | 43 | 10 | 30 | 43 | 42 | 11 | 14 | 3.5 | VN90UPH0300BA | VV90UPH0300BA |
| 31.5 | 44.5 | | 31.5 | 44.5 | 43.5 | | | | VN90UPH0315BA | VV90UPH0315BA |
| 32 | 45 | | 32 | 45 | 44 | | | | VN90UPH0320BA | VV90UPH0320BA |
| 34 | 50 | 12 | 34 | 50 | 49 | 13 | 16 | | VN90UPH0340BA | VV90UPH0340BA |
| 35 | 50 | | 35 | 50 | 49 | | | | VN90UPH0350BA | VV90UPH0350BA |
| 35.5 | 51.5 | | 35.5 | 51.5 | 50.5 | | | | VN90UPH0355BA | VV90UPH0355BA |
| 38 | 52 | 10 | 38 | 52 | 51 | 11 | 14 | | VN90UPH0380BA | VV90UPH0380BA |
| 40 | 56 | 12 | 40 | 56 | 55 | 13 | 16 | | VN90UPH0400BA | VV90UPH0400BA |
| 41 | 56 | 10 | 41 | 56 | 55 | 11 | 14 | | VN90UPH0410BA | VV90UPH0410BA |
| 45 | 61 | 12 | 45 | 61 | 60 | 13 | 16 | | VN90UPH0450BA | VV90UPH0450BA |
| 47 | 63 | | 47 | 63 | 62 | | | | VN90UPH0470BA | VV90UPH0470BA |
| 48 | 63 | 10 | 48 | 63 | 62 | 11 | 14 | 4 | VN90UPH0480BA | VV90UPH0480BA |
| 50 | 66 | 12 | 50 | 66 | 65 | 13 | 16 | | VN90UPH0500BA | VV90UPH0500BA |
| 51 | 71 | | 51 | 71 | 70 | | | | VN90UPH0510BA | VV90UPH0510BA |
| 53 | 69 | | 53 | 69 | 68 | | | | VN90UPH0530BA | VV90UPH0530BA |
| 55 | 71 | | 55 | 71 | 70 | | | | VN90UPH0550BA | VV90UPH0550BA |
| 56 | 72 | | 56 | 72 | 71 | | | | VN90UPH0560BA | VV90UPH0560BA |
| 60 | 76 | | 60 | 76 | 75 | | | | VN90UPH0600BA | VV90UPH0600BA |
| 63 | 79 | | 63 | 79 | 78 | | | | VN90UPH0630BA | VV90UPH0630BA |
| 64 | 80 | | 64 | 80 | 79 | | | | VN90UPH0640BA | VV90UPH0640BA |
| 65 | 81 | | 65 | 81 | 80 | | | | VN90UPH0650BA | VV90UPH0650BA |
| 67 | 87 | | 67 | 87 | 86 | | | | VN90UPH0670BA | VV90UPH0670BA |
| 70 | 90 | 70 | 90 | 89 | VN90UPH0700BA | VV90UPH0700BA | | | | |
| 71 | 91 | 71 | 91 | 90 | VN90UPH0710BA | VV90UPH0710BA | | | | |
| 75 | 95 | 75 | 95 | 94 | VN90UPH0750BA | VV90UPH0750BA | | | | |
| 80 | 100 | 80 | 100 | 99 | VN90UPH0800BA | VV90UPH0800BA | | | | |
| 85 | 105 | 85 | 105 | 104 | VN90UPH0850BA | VV90UPH0850BA | | | | |
| 90 | 110 | 90 | 110 | 109 | VN90UPH0900BA | VV90UPH0900BA | | | | |
| 92 | 112 | 15 | 92 | 112 | 111 | 16 | 19 | 5 | VN90UPH0920BA | VV90UPH0920BA |
| 95 | 115 | | 95 | 115 | 114 | | | | VN90UPH0950BA | VV90UPH0950BA |
| 100 | 120 | | 100 | 120 | 118 | | | | VN90UPH1000BA | VV90UPH1000BA |
| 105 | 125 | | 105 | 125 | 123 | | | | VN90UPH1050BA | VV90UPH1050BA |
| 106 | 126 | | 106 | 126 | 124 | | | | VN90UPH1060BA | VV90UPH1060BA |
| 110 | 130 | | 110 | 130 | 128 | | | | VN90UPH1100BA | VV90UPH1100BA |
| 112 | 132 | | 112 | 132 | 130 | | | | VN90UPH1120BA | VV90UPH1120BA |
| 115 | 135 | | 115 | 135 | 133 | | | | VN90UPH1150BA | VV90UPH1150BA |
| 118 | 138 | | 118 | 138 | 136 | | | | VN90UPH1180BA | VV90UPH1180BA |
| 120 | 140 | | 120 | 140 | 138 | | | | VN90UPH1200BA | VV90UPH1200BA |
| 125 | 150 | 19 | 125 | 150 | 148 | 20 | 23 | 6.5 | VN90UPH1250BA | VV90UPH1250BA |
| 130 | 155 | | 130 | 155 | 153 | | | | VN90UPH1300BA | VV90UPH1300BA |
| 132 | 157 | | 132 | 157 | 155 | | | | VN90UPH1320BA | VV90UPH1320BA |
| 135 | 160 | | 135 | 160 | 158 | | | | VN90UPH1350BA | VV90UPH1350BA |
| 140 | 165 | | 140 | 165 | 163 | | | | VN90UPH1400BA | VV90UPH1400BA |
| 145 | 170 | | 145 | 170 | 168 | | | | VN90UPH1450BA | VV90UPH1450BA |

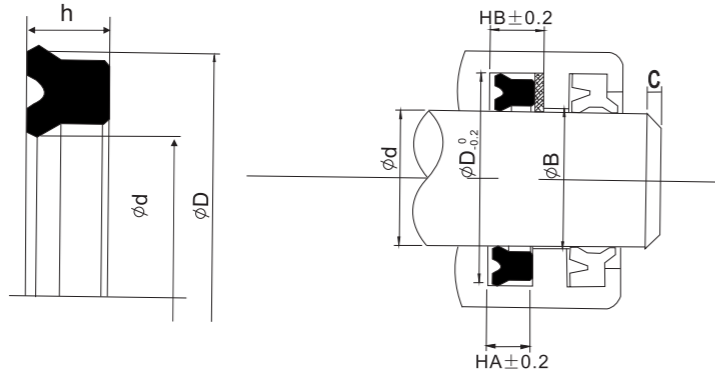


| Actual Size | | | Nominal Size | | | | | EK NO. | EK NO. | |
|-------------|------|------|--------------|------|---------------|---------------|------|--------|---------------|---------------|
| d | D | h | d | D | D1 | HA | HB | C | | |
| 6.3 | 16.3 | 7.5 | 6.3 | 16.3 | 15.3 | 8.5 | 10.5 | 2.5 | VN90UPH0063BA | VV90UPH0063BA |
| 7.1 | 17.1 | | 7.1 | 17.1 | 16.1 | | | | VN90UPH0071BA | VV90UPH0071BA |
| 8.0 | 18.0 | | 8.0 | 18.0 | 17.0 | | | | VN90UPH0080BA | VV90UPH0080BA |
| 9.0 | 19.0 | | 9.0 | 19.0 | 18.0 | | | | VN90UPH0090BA | VV90UPH0090BA |
| 10.0 | 20.0 | | 10.0 | 20.0 | 19.0 | | | | VN90UPH0100BA | VV90UPH0100BA |
| 11.2 | 21.2 | 11.2 | 21.2 | 20.2 | VN90UPH0112BA | VV90UPH0112BA | | | | |
| 12.0 | 25.0 | 8.0 | 12.0 | 25.0 | 24.0 | 9.0 | 11.0 | | VN90UPH0120BA | VV90UPH0120BA |
| 12.5 | 22.5 | 7.5 | 12.5 | 22.5 | 21.5 | 8.5 | 10.5 | | VN90UPH0125BA | VV90UPH0125BA |
| 14.0 | 24.0 | | 14.0 | 24.0 | 23.0 | | | | VN90UPH0140BA | VV90UPH0140BA |
| 15.0 | 28.0 | | 15.0 | 28.0 | 27.0 | | | | VN90UPH0150BA | VV90UPH0150BA |
| 16.0 | 26.0 | 7.5 | 16.0 | 26.0 | 25.0 | 8.5 | 10.5 | | VN90UPH0160BA | VV90UPH0160BA |
| 18.0 | 31.0 | 10 | 18.0 | 31.0 | 30.0 | 11 | 13.0 | | VN90UPH0180BA | VV90UPH0180BA |
| 18.5 | 31.5 | | 18.5 | 31.5 | 30.5 | | | | VN90UPH0185BA | VV90UPH0185BA |
| 20.0 | 33.0 | | 20.0 | 33.0 | 32.0 | | | | VN90UPH0200BA | VV90UPH0200BA |
| 21.5 | 31.5 | 8.0 | 21.5 | 31.5 | 30.5 | 9.0 | 11.0 | | VN90UPH0215BA | VV90UPH0215BA |
| 22.0 | 35.0 | 10 | 22.0 | 35.0 | 34.0 | 11 | 13.0 | 3.5 | VN90UPH0220BA | VV90UPH0220BA |
| 22.4 | 35.4 | | 22.4 | 35.4 | 34.4 | | | | VN90UPH0224BA | VV90UPH0224BA |
| 25.0 | 38.0 | | 25.0 | 38.0 | 37.0 | | | | VN90UPH0250BA | VV90UPH0250BA |
| 25.5 | 35.5 | | 25.5 | 35.5 | 34.5 | | | | VN90UPH0255BA | VV90UPH0255BA |
| 27.0 | 40.0 | 10 | 27.0 | 40.0 | 39.0 | 11 | 14.0 | | VN90UPH0270BA | VV90UPH0270BA |
| 28.0 | 41.0 | | 28.0 | 41.0 | 40.0 | | | | VN90UPH0280BA | VV90UPH0280BA |



| Actual Size | | | Nominal Size | | | | | EK NO· | | EK NO· | |
|-------------|-----|----|--------------|-----|-----|----|----|---------------|---------------|---------------|--|
| d | D | h | d | D | D1 | HA | HB | C | | | |
| 150 | 175 | 19 | 150 | 175 | 173 | 20 | 24 | 6.5 | VN90UPH1500BA | VV90UPH1500BA | |
| 155 | 180 | | 155 | 180 | 178 | | | | VN90UPH1550BA | VV90UPH1550BA | |
| 160 | 185 | | 160 | 185 | 183 | | | | VN90UPH1600BA | VV90UPH1600BA | |
| 165 | 190 | | 165 | 190 | 188 | | | | VN90UPH1650BA | VV90UPH1650BA | |
| 170 | 195 | | 170 | 195 | 193 | | | | VN90UPH1700BA | VV90UPH1700BA | |
| 175 | 200 | | 175 | 200 | 198 | | | | VN90UPH1750BA | VV90UPH1750BA | |
| 180 | 205 | | 180 | 205 | 203 | | | | VN90UPH1800BA | VV90UPH1800BA | |
| 185 | 210 | 15 | 185 | 210 | 208 | 16 | 20 | VN90UPH1850BA | VV90UPH1850BA | | |
| 190 | 215 | 19 | 190 | 215 | 213 | 20 | 24 | VN90UPH1900BA | VV90UPH1900BA | | |
| 199 | 224 | | 199 | 224 | 222 | | | VN90UPH1990BA | VV90UPH1990BA | | |
| 200 | 225 | | 200 | 225 | 223 | | | VN90UPH2000BA | VV90UPH2000BA | | |
| 210 | 235 | 18 | 210 | 235 | 233 | 19 | 23 | VN90UPH2100BA | VV90UPH2100BA | | |
| 212 | 237 | 19 | 212 | 237 | 235 | 20 | 24 | VN90UPH2120BA | VV90UPH2120BA | | |
| 224 | 249 | | 224 | 249 | 247 | | | VN90UPH2240BA | VV90UPH2240BA | | |
| 225 | 250 | | 225 | 250 | 248 | | | VN90UPH2250BA | VV90UPH2250BA | | |
| 236 | 261 | | 236 | 261 | 259 | | | VN90UPH2360BA | VV90UPH2360BA | | |
| 250 | 275 | | 250 | 275 | 273 | | | VN90UPH2500BA | VV90UPH2500BA | | |
| 255 | 280 | | 255 | 280 | 278 | | | VN90UPH2550BA | VV90UPH2550BA | | |
| 265 | 297 | | 265 | 297 | 295 | | | VN90UPH2650BA | VV90UPH2650BA | | |
| 270 | 300 | 24 | 270 | 300 | 298 | 26 | 30 | VN90UPH2700BA | VV90UPH2700BA | | |
| 280 | 312 | | 280 | 312 | 310 | | | VN90UPH2800BA | VV90UPH2800BA | | |
| 283 | 315 | | 283 | 315 | 313 | | | VN90UPH2830BA | VV90UPH2830BA | | |
| 290 | 320 | | 290 | 320 | 318 | | | VN90UPH2900BA | VV90UPH2900BA | | |
| 300 | 332 | 24 | 300 | 332 | 330 | 26 | 30 | VN90UPH3000BA | VV90UPH3000BA | | |
| 310 | 340 | 22 | 310 | 340 | 338 | 24 | 28 | VN90UPH3100BA | VV90UPH3100BA | | |
| 315 | 347 | 24 | 315 | 347 | 345 | 26 | 30 | VN90UPH3150BA | VV90UPH3150BA | | |
| 320 | 350 | 22 | 320 | 350 | 348 | 24 | 28 | VN90UPH3200BA | VV90UPH3200BA | | |
| 323 | 355 | 24 | 323 | 355 | 353 | 26 | 30 | VN90UPH3230BA | VV90UPH3230BA | | |
| 330 | 360 | 22 | 330 | 360 | 358 | 24 | 28 | VN90UPH3300BA | VV90UPH3300BA | | |
| 335 | 367 | 24 | 335 | 367 | 365 | 26 | 30 | VN90UPH3350BA | VV90UPH3350BA | | |
| 340 | 370 | 22 | 340 | 370 | 368 | 24 | 28 | VN90UPH3400BA | VV90UPH3400BA | | |
| 345 | 365 | 14 | 345 | 365 | 363 | 15 | 19 | VN90UPH3450BA | VV90UPH3450BA | | |
| 350 | 380 | 22 | 350 | 380 | 378 | 24 | 28 | VN90UPH3500BA | VV90UPH3500BA | | |
| 355 | 387 | 24 | 355 | 387 | 385 | 26 | 30 | VN90UPH3550BA | VV90UPH3550BA | | |
| 360 | 390 | 22 | 360 | 390 | 388 | 24 | 28 | VN90UPH3600BA | VV90UPH3600BA | | |
| 365 | 395 | 22 | 365 | 395 | 393 | 24 | 28 | VN90UPH3650BA | VV90UPH3650BA | | |
| 368 | 400 | 24 | 368 | 400 | 398 | 26 | 30 | VN90UPH3680BA | VV90UPH3680BA | | |
| 370 | 400 | 25 | 370 | 400 | 398 | 27 | 31 | VN90UPH3700BA | VV90UPH3700BA | | |
| 371 | 396 | 16 | 371 | 396 | 394 | 17 | 21 | VN90UPH3710BA | VV90UPH3710BA | | |
| 375 | 407 | 24 | 375 | 407 | 405 | 26 | 30 | VN90UPH3750BA | VV90UPH3750BA | | |
| 380 | 420 | 30 | 380 | 420 | 418 | 32 | 36 | VN90UPH3800BA | VV90UPH3800BA | | |
| 390 | 420 | 22 | 390 | 420 | 418 | 24 | 28 | VN90UPH3900BA | VV90UPH3900BA | | |
| 395 | 425 | 22 | 395 | 425 | 423 | 24 | 28 | VN90UPH3950BA | VV90UPH3950BA | | |
| 400 | 432 | 24 | 400 | 432 | 430 | 26 | 30 | VN90UPH4000BA | VV90UPH4000BA | | |

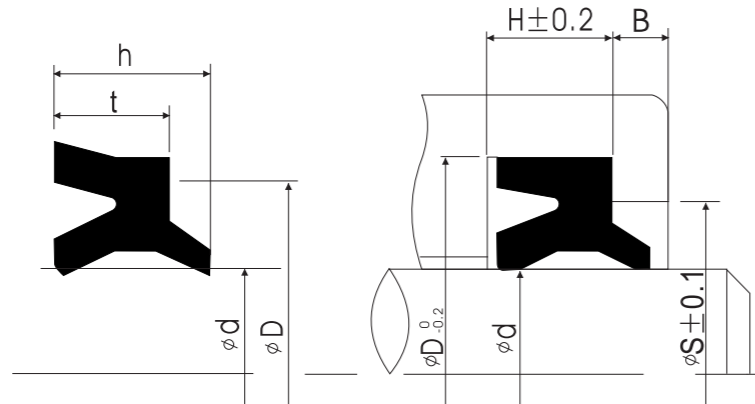




| Actual Size | | | Nominal Size | | | | | EK NO. | | EK NO. | | | |
|-------------|------|---|--------------|------|------|-----|-----|--------|---------------|---------------|----|---------------|---------------|
| d | D | h | d | D | D1 | HA | HB | C | | | | | |
| 14 | 22 | 5 | 14 | 22 | 21 | 5.7 | 7.7 | 2 | VN90USH0140BA | VV90USH0140BA | | | |
| 16 | 24 | | 16 | 24 | 23 | | | | VN90USH0160BA | VV90USH0160BA | | | |
| 18 | 26 | | 18 | 26 | 25 | | | | VN90USH0180BA | VV90USH0180BA | | | |
| 20 | 28 | | 20 | 28 | 27 | | | | VN90USH0200BA | VV90USH0200BA | | | |
| 22 | 30 | | 22 | 30 | 29 | | | | VN90USH0220BA | VV90USH0220BA | | | |
| 22.4 | 30 | | 22.4 | 30 | 29 | | | | VN90USH0224BA | VV90USH0224BA | | | |
| 23.5 | 31.5 | | 23.5 | 31.5 | 30.5 | | | | VN90USH0235BA | VV90USH0235BA | | | |
| 24 | 32 | | 24 | 32 | 31 | | | | VN90USH0240BA | VV90USH0240BA | | | |
| 25 | 33 | | 25 | 33 | 32 | | | | VN90USH0250BA | VV90USH0250BA | | | |
| 27 | 35 | | 27 | 35 | 34 | | | | VN90USH0270BA | VV90USH0270BA | | | |
| 28 | 35.5 | | 28 | 35.5 | 34.5 | | | | VN90USH0280BA | VV90USH0280BA | | | |
| 28 | 36 | | 28 | 36 | 35 | | | | VN90USH0280BB | VV90USH0280BB | | | |
| 30 | 40 | 6 | 30 | 40 | 39 | 7 | 10 | 2.5 | VN90USH0300BA | VV90USH0300BA | | | |
| 31.5 | 41.5 | | 31.5 | 41.5 | 40.5 | | | | VN90USH0315BA | VV90USH0315BA | | | |
| 32 | 42 | | 32 | 42 | 41 | | | | VN90USH0320BA | VV90USH0320BA | | | |
| 35 | 45 | | 35 | 45 | 44 | | | | VN90USH0350BA | VV90USH0350BA | | | |
| 35.5 | 45 | | 35.5 | 45 | 44 | | | | VN90USH0355BA | VV90USH0355BA | | | |
| 35.5 | 45.5 | | 35.5 | 45.5 | 44.5 | | | | VN90USH0355BB | VV90USH0355BB | | | |
| 36 | 46 | | 36 | 46 | 45 | | | | VN90USH0360BA | VV90USH0360BA | | | |
| 40 | 50 | | 40 | 50 | 49 | | | | VN90USH0400BA | VV90USH0400BA | | | |
| 45 | 55 | | 45 | 55 | 54 | | | | VN90USH0450BA | VV90USH0450BA | | | |
| 45 | 56 | | 7 | 45 | 56 | | | | 55 | 8 | 11 | VN90USH0450BB | VV90USH0450BB |
| 50 | 60 | | 50 | 60 | 59 | | | | VN90USH0500BA | VV90USH0500BA | | | |
| 53 | 63 | | 6 | 53 | 63 | | | | 62 | 7 | 10 | VN90USH0530BA | VV90USH0530BA |



| Actual Size | | | Nominal Size | | | | | EK NO. | | EK NO. | | | | |
|-------------|-----|-----|--------------|-----|-----|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| d | D | h | d | D | D1 | HA | HB | C | | | | | | |
| 55 | 65 | 6 | 55 | 65 | 64 | 7 | 10 | 2.5 | VN90USH0550BA | VV90USH0550BA | | | | |
| 56 | 66 | | 56 | 66 | 65 | | | | VN90USH0560BA | VV90USH0560BA | | | | |
| 58 | 68 | | 58 | 68 | 67 | | | | VN90USH0580BA | VV90USH0580BA | | | | |
| 60 | 70 | | 60 | 70 | 69 | | | | VN90USH0600BA | VV90USH0600BA | | | | |
| 60 | 71 | 7 | 60 | 71 | 70 | 8 | 11 | 2.5 | VN90USH0600BB | VV90USH0600BB | | | | |
| 63 | 73 | | 63 | 73 | 72 | | | | VN90USH0630BA | VV90USH0630BA | | | | |
| 65 | 75 | | 65 | 75 | 74 | | | | VN90USH0650BA | VV90USH0650BA | | | | |
| 67 | 77 | | 67 | 77 | 76 | | | | VN90USH0670BA | VV90USH0670BA | | | | |
| 70 | 80 | | 6 | 70 | 80 | | | | 79 | 7 | 10 | 2.5 | VN90USH0700BA | VV90USH0700BA |
| 71 | 80 | | | 71 | 80 | | | | 79 | | | | VN90USH0710BA | VV90USH0710BA |
| 75 | 85 | | | 75 | 85 | | | | 84 | | | | VN90USH0750BA | VV90USH0750BA |
| 80 | 90 | | | 80 | 90 | | | | 89 | | | | VN90USH0800BA | VV90USH0800BA |
| 85A | 95 | | | 85 | 95 | | | | 94 | | | | VN90USH085ABA | VV90USH085ABA |
| 85 | 100 | | | 85 | 100 | | | | 98 | | | | VN90USH0850BA | VV90USH0850BA |
| 90 | 105 | | 9 | 90 | 105 | | | | 103 | 10 | 13 | 2.5 | VN90USH0900BA | VV90USH0900BA |
| 95 | 110 | | | 95 | 110 | | | | 108 | | | | VN90USH0950BA | VV90USH0950BA |
| 98 | 112 | 98 | | 112 | 110 | 9.5 | 12.5 | VN90USH0980BA | VV90USH0980BA | | | | | |
| 100 | 115 | 8.5 | 100 | 115 | 113 | 10 | 13 | 2.5 | VN90USH1000BA | VV90USH1000BA | | | | |
| 106 | 120 | | 106 | 120 | 118 | | | | 9.5 | 12.5 | VN90USH1060BA | VV90USH1060BA | | |
| 112 | 125 | | 112 | 125 | 123 | | | | 9.5 | 12.5 | 4 | VN90USH1120BA | VV90USH1120BA | |
| 112 | 125 | | 9 | 112 | 125 | | | | 123 | 10 | | 13 | VN90USH1120BB | VV90USH1120BB |
| 118 | 132 | | 118 | 132 | 130 | | | | 9.5 | 12.5 | VN90USH1180BA | VV90USH1180BA | | |
| 125 | 140 | | 9 | 125 | 140 | | | | 138 | 10 | 13 | VN90USH1250BA | VV90USH1250BA | |
| 130 | 145 | | 9 | 130 | 145 | | | | 143 | 10 | 13 | VN90USH1300BA | VV90USH1300BA | |
| 132 | 145 | | 8.5 | 132 | 145 | | | | 143 | 9.5 | 12.5 | VN90USH1320BA | VV90USH1320BA | |
| 136 | 150 | | 8.5 | 136 | 150 | | | | 148 | 9.5 | 12.5 | VN90USH1360BA | VV90USH1360BA | |
| 140 | 155 | | 9 | 140 | 155 | | | | 153 | 10 | 14 | 2.5 | VN90USH1400BA | VV90USH1400BA |
| 145 | 160 | | | 145 | 160 | | | | 158 | | | | VN90USH1450BA | VV90USH1450BA |
| 150 | 165 | | | 150 | 165 | | | | 163 | | | | VN90USH1500BA | VV90USH1500BA |
| 155 | 170 | 155 | | 170 | 168 | VN90USH1550BA | VV90USH1550BA | | | | | | | |
| 160 | 175 | 160 | | 175 | 173 | VN90USH1600BA | VV90USH1600BA | | | | | | | |
| 165 | 180 | 165 | | 180 | 178 | VN90USH1650BA | VV90USH1650BA | | | | | | | |
| 175 | 190 | 175 | | 190 | 188 | VN90USH1750BA | VV90USH1750BA | | | | | | | |
| 180 | 200 | 12 | | 180 | 200 | 198 | 13 | 17 | 5 | | | | VN90USH1800BA | VV90USH1800BA |
| 190 | 210 | | | 190 | 210 | 208 | | | | | | | VN90USH1900BA | VV90USH1900BA |
| 200 | 220 | | | 200 | 220 | 218 | | | | | | | VN90USH2000BA | VV90USH2000BA |
| 204 | 224 | | | 204 | 224 | 222 | | | | | | | VN90USH2040BA | VV90USH2040BA |
| 224 | 244 | | | 224 | 244 | 242 | | | | | | | VN90USH2240BA | VV90USH2240BA |
| 230 | 250 | | 230 | 250 | 248 | VN90USH2300BA | | | | VV90USH2300BA | | | | |
| 240 | 260 | | 240 | 260 | 258 | VN90USH2400BA | | | | VV90USH2400BA | | | | |
| 250 | 270 | | 250 | 270 | 268 | VN90USH2500BA | | | | VV90USH2500BA | | | | |
| 260 | 280 | | 14 | 260 | 280 | 278 | | | | 15 | 19 | 2.5 | VN90USH2600BA | VV90USH2600BA |
| 280 | 300 | | | 280 | 300 | 298 | | | | | | | VN90USH2800BA | VV90USH2800BA |
| 295 | 315 | | | 295 | 315 | 313 | | | | | | | VN90USH2950BA | VV90USH2950BA |



| Actual Size | | | | Nominal Size | | | | EK NO. | | EK NO. | |
|-------------|------|-----|-----|--------------|------|------|---|--------|---------------|---------------|--|
| d | D | t | h | d | D | S | H | B | | | |
| 12.5 | 20.5 | 4.5 | 6 | 12.5 | 20.5 | 16.8 | 5 | | VN90LBH0125BA | VV90LBH0125BA | |
| 14 | 22 | | | 14 | 22 | 18.3 | | | VN90LBH0140BA | VV90LBH0140BA | |
| 16 | 24 | | | 16 | 24 | 20.3 | | | VN90LBH0160BA | VV90LBH0160BA | |
| 18 | 26 | | | 18 | 26 | 22.3 | | | VN90LBH0180BA | VV90LBH0180BA | |
| 20 | 28 | | | 20 | 28 | 24.3 | | | VN90LBH0200BA | VV90LBH0200BA | |
| 22 | 30 | | | 22 | 30 | 26.3 | | | VN90LBH0220BA | VV90LBH0220BA | |
| 22.4 | 30.4 | | | 22.4 | 30.4 | 26.7 | | | VN90LBH0224BA | VV90LBH0224BA | |
| 25 | 33 | | | 25 | 33 | 29.3 | | | VN90LBH0250BA | VV90LBH0250BA | |
| 28 | 36 | | | 28 | 36 | 32.3 | | | VN90LBH0280BA | VV90LBH0280BA | |
| 30 | 38 | | | 30 | 38 | 34 | | | VN90LBH0300BA | VV90LBH0300BA | |
| 31.5 | 39.5 | 5 | 6.5 | 31.5 | 39.5 | 35.5 | 6 | 2 | VN90LBH0315BA | VV90LBH0315BA | |
| 32 | 40 | | | 32 | 40 | 36 | | | VN90LBH0320BA | VV90LBH0320BA | |
| 35 | 43 | | | 35 | 43 | 39 | | | VN90LBH0350BA | VV90LBH0350BA | |
| 35.5 | 43.5 | | | 35.5 | 43.5 | 39.5 | | | VN90LBH0355BA | VV90LBH0355BA | |
| 36 | 44 | | | 36 | 44 | 40 | | | VN90LBH0360BA | VV90LBH0360BA | |
| 40 | 48 | | | 40 | 48 | 44 | | | VN90LBH0400BA | VV90LBH0400BA | |
| 45 | 53 | | | 45 | 53 | 49 | | | VN90LBH0450BA | VV90LBH0450BA | |



| Actual Size | | | | Nominal Size | | | | EK NO. | | EK NO. | | | | |
|-------------|-----|------|------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|----|---------------|---------------|---------------|
| d | D | t | h | d | D | S | H | B | | | | | | |
| 50 | 58 | 5 | 6.5 | 50 | 58 | 54 | 6 | 2 | VN90LBH0500BA | VV90LBH0500BA | | | | |
| 53 | 61 | | | 53 | 61 | 57 | | | VN90LBH0530BA | VV90LBH0530BA | | | | |
| 55 | 63 | | | 55 | 63 | 59 | | | VN90LBH0550BA | VV90LBH0550BA | | | | |
| 56 | 64 | | | 56 | 64 | 60 | | | VN90LBH0560BA | VV90LBH0560BA | | | | |
| 60 | 68 | | | 60 | 68 | 64 | | | VN90LBH0600BA | VV90LBH0600BA | | | | |
| 63 | 71 | | | 63 | 71 | 67 | | | VN90LBH0630BA | VV90LBH0630BA | | | | |
| 65 | 73 | | | 65 | 73 | 69 | | | VN90LBH0650BA | VV90LBH0650BA | | | | |
| 67 | 75 | | | 67 | 75 | 71 | | | VN90LBH0670BA | VV90LBH0670BA | | | | |
| 70 | 80 | | | 6 | 8 | 70 | | | 80 | 75 | 7 | 3 | VN90LBH0700BA | VV90LBH0700BA |
| 71 | 81 | | | | | 71 | | | 81 | 76 | | | VN90LBH0710BA | VV90LBH0710BA |
| 75 | 85 | 75 | 85 | | | 80 | VN90LBH0750BA | VV90LBH0750BA | | | | | | |
| 80 | 90 | 80 | 90 | | | 85 | VN90LBH0800BA | VV90LBH0800BA | | | | | | |
| 85 | 95 | 85 | 95 | | | 90 | VN90LBH0850BA | VV90LBH0850BA | | | | | | |
| 90 | 100 | 90 | 100 | | | 95 | VN90LBH0900BA | VV90LBH0900BA | | | | | | |
| 95 | 105 | 95 | 105 | | | 100 | VN90LBH0950BA | VV90LBH0950BA | | | | | | |
| 100 | 110 | 100 | 110 | | | 105 | VN90LBH1000BA | VV90LBH1000BA | | | | | | |
| 105 | 115 | 105 | 115 | | | 110 | VN90LBH1050BA | VV90LBH1050BA | | | | | | |
| 106 | 116 | 106 | 116 | | | 111 | VN90LBH1060BA | VV90LBH1060BA | | | | | | |
| 110 | 120 | 110 | 120 | 115 | VN90LBH1100BA | VV90LBH1100BA | | | | | | | | |
| 112 | 122 | 112 | 122 | 117 | VN90LBH1120BA | VV90LBH1120BA | | | | | | | | |
| 115 | 125 | 115 | 125 | 120 | VN90LBH1150BA | VV90LBH1150BA | | | | | | | | |
| 118 | 128 | 118 | 128 | 123 | VN90LBH1180BA | VV90LBH1180BA | | | | | | | | |
| 125 | 138 | 7 | 9.5 | 125 | 138 | 132 | 8 | 5 | VN90LBH1250BA | VV90LBH1250BA | | | | |
| 132 | 145 | | | 132 | 145 | 139 | | | VN90LBH1320BA | VV90LBH1320BA | | | | |
| 140 | 153 | | | 140 | 153 | 147 | | | VN90LBH1400BA | VV90LBH1400BA | | | | |
| 145 | 158 | | | 145 | 158 | 152 | | | VN90LBH1450BA | VV90LBH1450BA | | | | |
| 150 | 163 | | | 150 | 163 | 157 | | | VN90LBH1500BA | VV90LBH1500BA | | | | |
| 160 | 173 | | | 160 | 173 | 167 | | | VN90LBH1600BA | VV90LBH1600BA | | | | |
| 160 | 174 | | | 160 | 174 | 167 | | | VN90LBH1600BB | VV90LBH1600BB | | | | |
| 165 | 178 | | | 165 | 178 | 172 | | | VN90LBH1650BA | VV90LBH1650BA | | | | |
| 170 | 185 | | | 170 | 185 | 178 | | | VN90LBH1700BA | VV90LBH1700BA | | | | |
| 175 | 188 | | | 175 | 188 | 182 | | | VN90LBH1750BA | VV90LBH1750BA | | | | |
| 180 | 193 | 7 | 9.5 | 180 | 193 | 187 | 8 | 3 | VN90LBH1800BA | VV90LBH1800BA | | | | |
| 180 | 194 | | | 180 | 194 | 187 | | | VN90LBH1800BB | VV90LBH1800BB | | | | |
| 200 | 213 | | | 200 | 213 | 207 | | | VN90LBH2000BA | VV90LBH2000BA | | | | |
| 205 | 218 | | | 205 | 218 | 212 | | | VN90LBH2050BA | VV90LBH2050BA | | | | |
| 210 | 223 | | | 210 | 223 | 217 | | | VN90LBH2100BA | VV90LBH2100BA | | | | |
| 224 | 237 | | | 224 | 237 | 231 | | | VN90LBH2240BA | VV90LBH2240BA | | | | |
| 240 | 256 | | | 10 | 13 | 240 | | | 256 | 248 | 11 | VN90LBH2400BA | VV90LBH2400BA | |
| 250 | 266 | | | 9 | 12 | 250 | | | 266 | 258 | 10 | VN90LBH2500BA | VV90LBH2500BA | |
| 250 | 266 | | | 10 | 13 | 250 | | | 266 | 258 | 11 | 4 | VN90LBH2500BB | VV90LBH2500BB |
| 280 | 296 | | | 9 | 12 | 280 | | | 296 | 288 | 10 | VN90LBH2800BA | VV90LBH2800BA | |
| 355 | 375 | 10 | 14 | 355 | 375 | 365 | 11 | 5 | VN90LBH3550BA | VV90LBH3550BA | | | | |
| 500 | 520 | 11.5 | 15.5 | 500 | 520 | 510 | 12 | 5 | VN90LBH5000BA | VV90LBH5000BA | | | | |

Provide Custom forming parts upon client's request



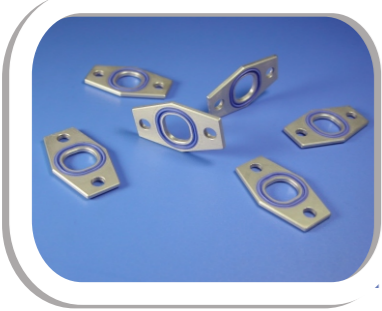
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142-02



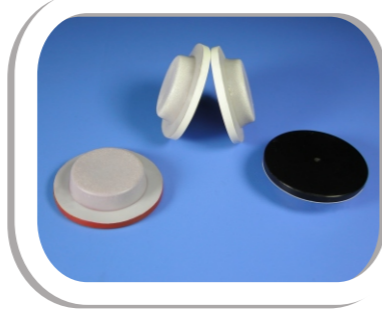
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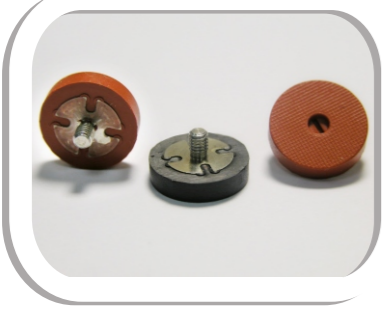
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142-05



142-06



142-07



142-08



142-09



142-10



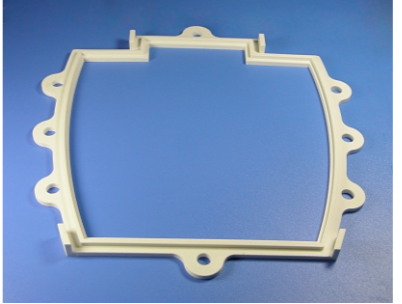
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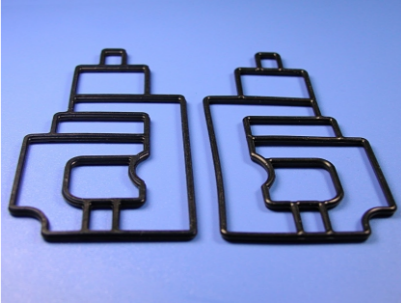
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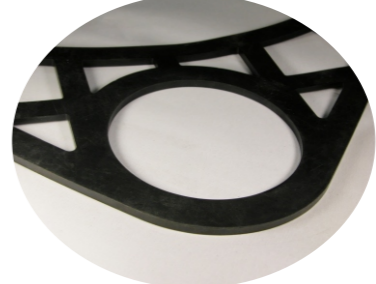
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143-03



143-04



143-05



143-06



143-07 Print



143-08 Teflon Coating



143-09 MoS2 Coating