Page

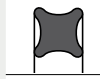
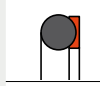
Profile	Ref.	Press. ≤ (MPa)✱	Temp. (°C)✱	Speed (m/s)✱	Material	Dimensions (mm)	mm	inch	Page
2a O-rings									
	**01** **02** **03** **04** **05** **06** **07**	15 20 25 15 25 15 15	-30 +110 -30 +110 -30 +110 -20 +200 -20 +200 -40 +150 -60 +200	-	**NBR 70 Sh A** **NBR 80 Sh A** **NBR 90 Sh A** **FPM 75 Sh A** **FPM 90 Sh A** **EPDM 70 Sh A** **MVQ 70 Sh A**	1 … 1056	●	●	**84 - 141**
	**00FEP**	25	-20 +200 -60 +200	-	**FPM/FEP** **MVQ/FEP**	9 … 190	●	●	**142 - 145**
	**00RPT**	40	-200 +260	-	**PT01**	7 … 190	●	●	**146 - 147**
	**00RPU**	40	-30 +100	-	**PU26**	9 … 190	●	●	**148 - 151**
	**41V1**	60	-35 +100	-	**P5008**	5 … 28	●	●	**152 - 153**
	**090R**	15 15	-30 +110 -20 +200	-	**NBR 70 Sh A** **FPM 70 Sh A**	-	●	●	**154 - 155**

✱ See page 8

Profile	Reference	Press. ≤ (MPa)✱	Temp. (°C)✱	Speed (m/s)✱	Material	Dimensions (mm)	mm	inch	Page
2b Standard back-up rings									
	**10MBK** **10MBK.../INT**	50	-30 +110	-	**TPE**	4 ... 250	●		**158 - 161** **162 - 165**
	**10PBK** **10PBK.../INT**	50	-30 +110	-	**TPE**	7 ... 273		●	**166 - 171** **172 - 177**
	**10BU** **10BU.../INT**	40	-30 +110 -20 +200	-	**NBR 90 Sh A**	2 ... 508		●	**178 - 193** **194 - 209**
	**11BU...FPM** **11BU...FPM/INT**	40	-30 +110 -20 +200	-	**FPM 90 Sh A**	2 ... 508		●	**210 - 213** **217 - 217**
	**10BR**	50	-200 +260	-	**PT01**	3 ... 393		●	**218 - 223**
	**08ST8**	50	-200 +200 -30 +100 -40 +110	-	**PTFE** **PA** **POM**	8 ... 418	●	●	**224 - 229**
	**08ST8/C**	50	-200 +200 -30 +100 -40 +110	-	**PTFE** **PA** **POM**	17 ... 177	●	●	**230 - 233**
2c Machined back-up rings									
	**28ST8**	50	-200 + 260 -30 + 100	-	**PT01** **PU30**	10 ... 1500	●	●	**234 - 235**
	**28ST8/C**	50	-200 + 260	-	**PT01**	10 ... 1500	●	●	**234 - 235**
	**25ST9**	50	-30 +110 -200 +260 -30 +100	-	**Elastomers** **PT01** **PU30**	10 ... 1500	●	●	**236 - 237**
	**25ST9/C**	50	-30 +110 -200 +260 -30 +100	-	**Elastomers** **PT01** **PU30**	10 ... 1500	●	●	**236 - 237**

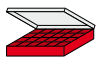
✱ See page 8

Profile	Reference	Press. ≤ (MPa) ✱	Temp. (°C) ✱	Speed (m/s) ✱	Material	Dimensions (mm)	mm	inch	Page
2d STATIC SEALS for connectors									
	**08BS**	Contact us	-30 +100 -20 +200	-	**NBR 70 ShA/ST** **FPM 70 ShA/ST**	3 … 76	●	●	**238 - 243**
	**08BS9**	Contact us	-30 +100 -20 +200	-	**NBR 70 ShA/ST** **FPM 70 ShA/ST**	6 … 76	●	●	**244 - 247**
	**08COR**	Contact us	-100 +150	-	**CU**	6 … 33	●	●	**248 - 249**
	**08FC**	50	-30 +100 -20 +200	-	**NBR 85 ShA** **FPM 85 ShA**	6 … 56	●	●	**250 - 251**
2e STATIC SEALS for SAE, ISO and CAT® flanges									
	**08FS**	50	-40 +120	-	**PU 92 ShA**	1/2" … 3"		●	**252 - 253**
	**08SFS**	50	-40 +90	-	**PU 95/59 ShA**	1/2" … 5"		●	**254 - 255**
	**08D-RING**	42	-40 +100	-	**NBR 90 ShA**			●	**256 - 257**

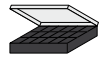
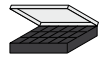
Profile	Reference	Press. ≤ (MPa) ✱	Temp. (°C) ✱	Speed (m/s) ✱	Material	Dimensions (mm)	mm	inch	Page
2f STATIC SEALS for flanges									
	**08KS**	50	-30 +100	-	**NBR 90 ShA**	6 … 54	●	●	**258 - 259**
	**08KS...FPM**	50	-10 +200	-	**FPM 90 ShA**	5 … 66	●	●	**260 - 261**
	**08KS7**	25	-30 +100	-	**NBR 70 ShA**	17 … 291	●	●	**262 - 263**
	**08CS**	80	-10 +200	-	**FPM 80 ShA**	6 … 38	●		**264 - 265**
	**08Y-RING**	20	-30 +100	-	**NBR 90 ShA/ST**	20 … 245	●		**266 - 267**
	**25FOI**	80	-200 +260	-	**PTFE/SS**	10 … 1100	●	●	**268**
	**25FOE**	80	-200 +260	-	**PTFE/SS**	10 … 1100	●	●	**269**
2g STATIC SEALS Quad-Rings®, XS seals and OBVD seals									
	**10QR**	15	-30 +100	0,5	**NBR 70 ShA**	2 … 393		●	**270 - 273**
	**11QR...FPM**	15	-20 +200	0,5	**FPM 70 ShA**	9 … 215		●	**274 - 275**
	**10XS.../AK...**	50	-40 +120 -30 +90	-	**PU 92 ShA** **PU 94 ShA**	25 … 200		●	**276 - 277**
	**10XS**	50	-30 +80	-	**PU 93 ShA**	6 … 293		●	**278 - 285**
	**120BVD AX** HUNGER Dichtungen	50	-30 +100	-	**NBR 80 ShA/** **PUR 95 ShA**	34 … 190		●	**286 - 287**
	**120BVD 2AX** HUNGER Dichtungen	50	-30 +100	-	**NBR 80 ShA/** **PUR 95 ShA**	34 … 190		●	**286 - 287**

✱ See page 8

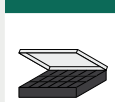
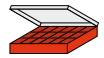
2h Assortments O-rings

Profile	Reference	Temp. (°C)*	Material	Dimensions (mm)	mm	inch	Page
	**19BOX A** **19BOX A NBR 90** **19BOX A FPM 80** **19BOX A EPDM 70**	-30 +110 -30 +110 -20 +200 -40 +150	**NBR 70 ShA** **NBR 90 ShA** **FPM 80 ShA** **EPDM 70 ShA**	2,9 x 1,78 to 28,17 x 3,53		●	**288**
	**19BOX B** **19BOX B NBR 90** **19BOX B FPM 80** **19BOX B EPDM 70**	-30 +110 -30 +110 -20 +200 -40 +150	**NBR 70 ShA** **NBR 90 ShA** **FPM 80 ShA** **EPDM 70 ShA**	20,35 x 1,78 to 50,16 x 5,34		●	**289**
	**19BOX C** **19BOX C NBR 90** **19BOX C FPM 80** **19BOX C EPDM 70**	-30 +110 -30 +110 -20 +200 -40 +150	**NBR 70 ShA** **NBR 90 ShA** **FPM 80 ShA** **EPDM 70 ShA**	3 x 1,5 to 30,2 x 3	●		**290**
	**19BOX D** **19BOX D NBR 90** **19BOX D FPM 80** **19BOX D EPDM 70**	-30 +110 -30 +110 -20 +200 -40 +150	**NBR 70 ShA** **NBR 90 ShA** **FPM 80 ShA** **EPDM 70 ShA**	18 x 2 to 50 x 5	●		**291**
	**19BOX G** **19BOX G NBR 90** **19BOX G FPM 80** **19BOX G EPDM 70**	-30 +110 -30 +110 -20 +200 -40 +150	**NBR 70 ShA** **NBR 90 ShA** **FPM 80 ShA** **EPDM 70 ShA**	2,9 x 1,78 to 43,82 x 5,34		●	**292**
	**19BOX H** **19BOX H NBR 90** **19BOX H FPM 80** **19BOX H EPDM 70**	-30 +110 -30 +110 -20 +200 -40 +150	**NBR 70 ShA** **NBR 90 ShA** **FPM 80 ShA** **EPDM 70 ShA**	3 x 2 to 45 x 4	●		**293**
	**19BOX MAX INCH NBR 70** **19BOX MAX INCH NBR 90**	-30 +110 -30 +110	**NBR 70 ShA** **NBR 90 ShA**	2,9 x 1,78 to 82,14 x 3,53		● ●	**294 - 295**
	**19BOX MAX MM NBR 70** **19BOX MAX MM NBR 90**	-30 +110 -30 +110	**NBR 70 ShA** **NBR 90 ShA**	3 x 2 to 82 x 3	● ●		**296 - 297**
	**19BOX ORFS**	-30 +110	**NBR 90 ShA**	7,65 x 1,78 to 37,82 x 1,78		●	**298**
	**19BOX CORD** **19BOX CORD NBR 90** **19BOX CORD FPM 80**	-30 +110 -30 +110 -20 +200	**NBR 70 ShA** **NBR 90 ShA** **FPM 80 ShA**	1,78 to 8	●	●	**299**

2i Assortments flange seals

Profile	Reference	Temp. (°C)*	Material	Dimensions (mm)	mm	inch	Page
	**19BOX D-RING**	-30 +110	**NBR 90 Sh A**			●	**300**
	**19BOX FS**	-40 +120	**PU**	1/2" … 2"		●	**301**
	**19BOX KS NBR**	-30 +110	**NBR 90 Sh A**	9 … 42	●		**302**
	**19BOX KS FPM**	-10 +200	**FPM 90 Sh A**	9 … 42	●		**303**

2j Assortments connector seals

Profile	Reference	Temp. (°C)*	Material	Dimensions (mm)	mm	inch	Page
	**19BOX BS MM** **19BOX BS INCH**	-30 +110 -30 +110	**NBR 90 ShA** **NBR 90 ShA**	M8 … M24 BSP1/8" … BSP1"	●	●	**304**
	**19BOX COR MM** **19BOX COR INCH**		**CU** **CU**	M8 … M22 BSP1/8" … BSP1"	●	●	**305**

* See page 8

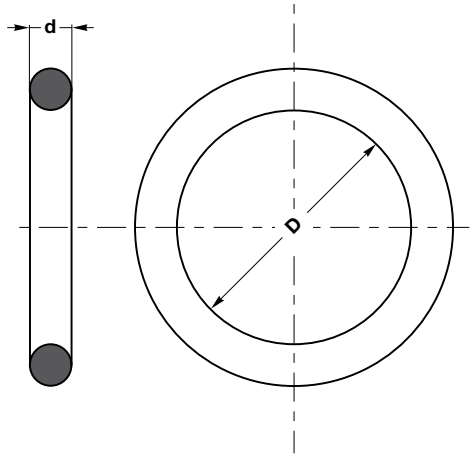


Fig. 78A

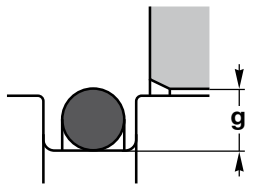


Fig. 78B

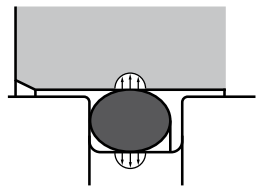


Fig. 78C

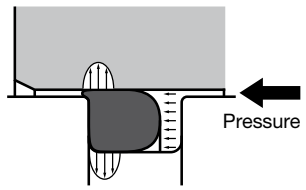


Fig. 78D

1.1 DESCRIPTION

O-rings are seals with a circular shape and a round cross section, defined by the inside diameter (**D**) and the cross section (**d**). It is the most common seal for hydraulic and pneumatic applications. This seal offers lots of advantages:

- the groove is simple and easy to machine
- large choice of compounds: NBR, FPM, EPDM, Silicon, PTFE, PUR, ...
- easy to install due to its symmetry
- good price-performance ratio
- extremely wide variety of applications: static, dynamic (both linear and rotary)
- compact design

1.2 SEALING PRINCIPLES

See figure 78:

- The O-ring is installed in a groove with dimension **g** smaller than the cross section **d** of the seal (**Fig. 78B**)
- After the assembly, the torus is squeezed radially causing mechanically compressive stress to be exerted at the O-ring contact surface (**Fig. 78C**)
- The pressure of the contained fluid transfers through the essentially incompressible O-ring material, and the contact stress rises with increasing pressure (**Fig. 78D**)

The degree of **initial compressive stress** (**Fig.78C**) is very important !
Depending on the application and material, the compression rate of the elastomer should be as follows:

- **15 to 30 %** in case of a **static** sealing. In this catalogue, the initial compression values for static sealing will vary between 17 and 27 %.
- **3 to 20 %** in case of a **dynamic** sealing (**pneumatic** and **hydraulic**). In this catalogue the initial compression values for dynamic sealing in hydraulic application will vary between 12 and 14 %.

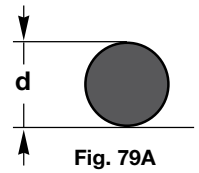


Fig. 79A

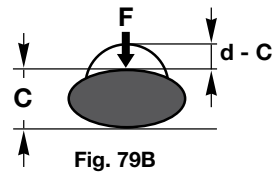


Fig. 79B

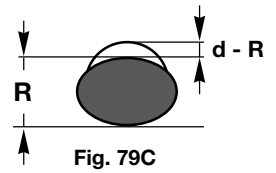


Fig. 79C

Fig. 79D

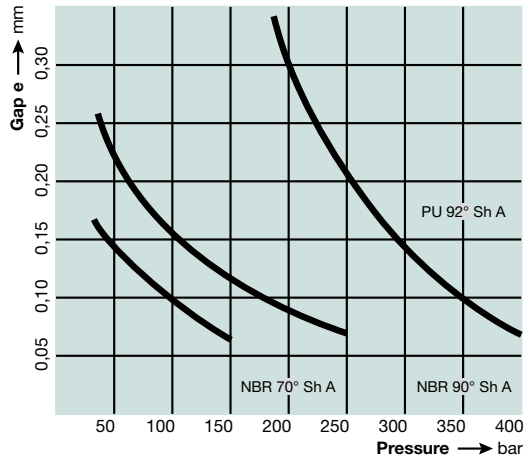


Fig. 79E

2.1 TECHNICAL CHARACTERISTICS

- **Static working pressure**:
  ≤ **15** MPa for **NBR 70** Shore A without back-up ring
  ≤ **25** MPa for **NBR 90** Shore A without back-up ring
  ≤ **40** MPa for **PU 92** Shore A without back-up ring
  ≤ **50** MPa for **NBR 70** Shore A **with back-up ring**
- **Linear speed**: ≤ 0,5 m/sec
- **Rotary speed**: ≤ 0,2 m/sec
- **Temperature**: see material charts pages 10 to 19
- **Compression set**: this is a very important property of elastomers. It is defined as the permanent deformation remaining after release of a compressive stress.

  Fig. 79A - Fig. 79B - Fig. 79C shows an O-ring with initial cross-section **d** compressed by a force **F** during a set time at a set temperature, resulting in a deformed O-ring **C**.
  After been left under normal conditions for a specified time, the residual thickness (R) can be measured:

  $$\textbf{Cs (\%)} = \frac{\textbf{d - R}}{\textbf{d - C}} \times \textbf{100}$$

  A perfect elastic material will have a **Cs** of 0%, while material with loss of resiliency (memory) will have a **Cs** of 100 %.

2.2 CLEARANCE GAP

The clearance gap e can be determined by consulting the **Fig. 79E**. In function of the applied pressure, the clearance gap e must always be below the values indicated in the curve.

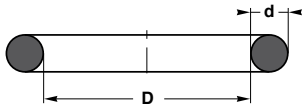
To limit the extrusion of the seal under high pressure, you have to limit the gap. As the diagram shows, the extrusion resistance increases with the **hardness** of the seal.

2.3 TOLERANCES OF THE METAL PARTS

For the **static working pressures** mentionned on this page, we recommend the tolerances **H8/f7** for the metal pieces with a diameter range between 0 and 180 mm.

For higher pressures or diameters exceeding 180 mm, please contact us.

3.1 STANDARD MATERIALS



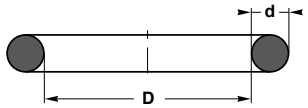
Example of standard item code

04 353 3609 GN

Material — Colour
d (mm) x 100 — **D** (mm) x 100

Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

3.2 NON-STANDARD MATERIALS



Example of non-standard item code

00 353 3609 HNBR70 GN

Non Standard O-ring — **D** (mm) x 100 — Colour
d (mm) x 100 — Material

Material	Colour
NBR 50	**-** : Black
NBR 60	**BE** : Blue
HNBR 70	**BN** : Brown
TNBR 70	**GN** : Green
FFPM 75	**GY** : Grey
…	**RD** : Red
see page 10-19	**WE** : White
	YW : Yellow

3.3 TOLERANCES OF O-RINGS

Dimensional tolerances on cross section **d** are shown in table 80A. Table 80B shows the tolerances on inside diameter **D**. If the inside diameter is more than 200 mm, please contact us.

Table 80A
Cross section d

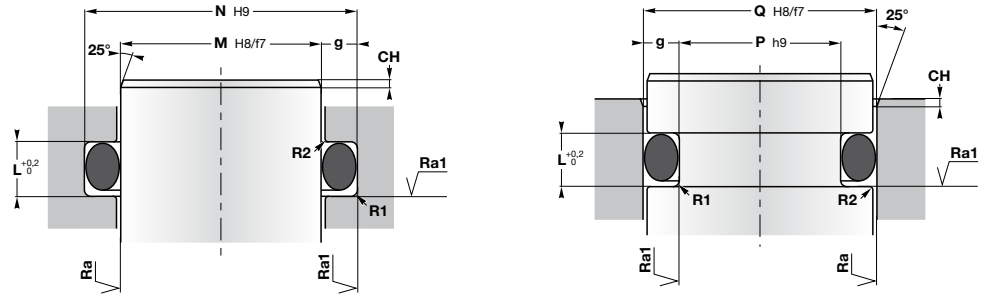
d	± Tol.	d	± Tol.	d	± Tol.	d	± Tol.
0 - 1,8	**0,08**	2,6 - 3,5	**0,1**	5,3 - 7	**0,15**	8 - 10	**0,2**
1,8 - 2,6	**0,09**	3,5 - 5,3	**0,13**	7 - 8	**0,17**	10 - 15	**0,25**

Table 80B
O-ring inner diameter D

D	± Tol.	D	± Tol.	D	± Tol.	D	± Tol.
0 - 2,5	**0,13**	35,5 - 36,5	**0,35**	63 - 65	**0,58**	112 - 115	**0,95**
2,5 - 4,5	**0,14**	36,5 - 37,5	**0,36**	65 - 67	**0,59**	115 - 118	**0,97**
4,5 - 6,3	**0,15**	37,5 - 38,7	**0,37**	67 - 69	**0,61**	118 - 122	**1**
6,3 - 8,5	**0,16**	38,7 - 40	**0,38**	69 - 71	**0,63**	122 - 125	**1,03**
8,5 - 10	**0,17**	40 - 41,2	**0,39**	71 - 73	**0,64**	125 - 128	**1,05**
10 - 11,2	**0,18**	41,2 - 42,5	**0,4**	73 - 75	**0,66**	128 - 132	**1,08**
11,2 - 14	**0,19**	42,5 - 43,7	**0,41**	75 - 77,5	**0,67**	132 - 136	**1,1**
14 - 16	**0,2**	43,7 - 45	**0,42**	77,5 - 80	**0,69**	136 - 140	**1,13**
16 - 18	**0,21**	45 - 46,2	**0,43**	80 - 82,5	**0,71**	140 - 145	**1,17**
18 - 20	**0,22**	46,2 - 47,2	**0,44**	82,5 - 85	**0,73**	145 - 150	**1,2**
20 - 21,2	**0,23**	47,2 - 48,2	**0,45**	85 - 87,5	**0,75**	150 - 155	**1,24**
21,2 - 23,6	**0,24**	48,2 - 50	**0,46**	87,5 - 90	**0,77**	155 - 160	**1,27**
23,6 - 25	**0,25**	50 - 51,5	**0,47**	90 - 92,5	**0,79**	160 - 165	**1,31**
25 - 26,5	**0,26**	51,5 - 53	**0,48**	92,5 - 95	**0,81**	165 - 170	**1,34**
26,5 - 28	**0,28**	53 - 54,5	**0,5**	95 - 97,5	**0,83**	170 - 175	**1,38**
28 - 30	**0,29**	54,5 - 56	**0,51**	97,5 - 100	**0,84**	175 - 180	**1,41**
30 - 31,5	**0,31**	56 - 58	**0,52**	100 - 103	**0,87**	180 - 185	**1,44**
31,5 - 33,5	**0,32**	58 - 60	**0,54**	103 - 106	**0,89**	185 - 190	**1,48**
33,5 - 34,5	**0,33**	60 - 61,5	**0,55**	106 - 109	**0,91**	190 - 195	**1,51**
34,5 - 35,5	**0,34**	61,5 - 63	**0,56**	109 - 112	**0,93**	195 - 200	**1,55**

4.1 TOLERANCES OF HOUSINGS

See the two drawings here below.



4.2 SURFACE ROUGHNESS

Table 81A
Surface roughness (µm)

Radial - dynamic						Radial - static / Axial - static					
Ra	**Rz**	**Rt**	**Ra1**	**Rz1**	**Rt1**	**Ra**	**Rz**	**Rt**	**Ra1**	**Rz1**	**Rt1**
≤ 0,4	**≤ 1,6**	**≤ 2,5**	**≤ 1,6**	**≤ 6,3**	**≤ 10**	**≤ 1,6**	**≤ 6,3**	**≤ 10**	**≤ 1,6**	**≤ 6,3**	**≤ 10**

4.3 RADII VALUES

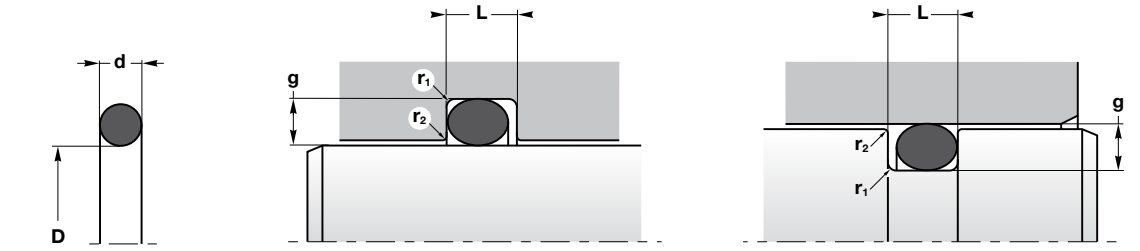
Table 81B
Radii values (mm)

O-ring cross section	< 3	≥ 3
R1	0,2 - 0,4	0,4 - 0,8
R2	0,1 - 0,15	0,15 - 0,3

4.4 CHAMFERS

Table 81C
Chamfers (mm)

O-ring cross section	≤ 1,78 - 1,8	≤ 2,62 - 2,65	≤ 3,53 - 3,55	≤ 5,34	≤ 6,99 - 7	> 7
CH (mm)	1	1,2	1,5	2,2	3	4,5



Radial compression: internal groove

Radial compression: external groove

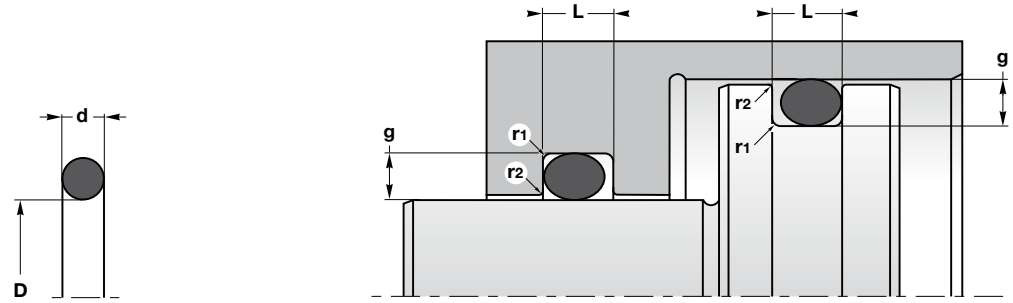
Axial compression

Triangular groove

Trapezoidal groove

Table 82A
Dimensions of the grooves in case of **static sealing**, according to DIN 3771 / Part 5. ISO standard in grey

d	g	L 0/+0,2	Lf 0/+0,2	r1	r2	Lt	tol. Lt	r3	t	tol. t	p ±0,05	P ±0,05	r4	r5
1 1,02	0,7	1,4	1,4	0,2	0,1	1,35	0 / +0,1	0,2	We discourage the use of trapezoidal grooves for small sections.					
1,5 1,52	1,1	2	2,1	0,2	0,1	2	0 / +0,1	0,2						
1,6 1,63	1,2	2,1	2,2	0,3	0,1	2,15	0 / +0,1	0,3						
1,78 1,8	1,3	2,4	2,6	0,4	0,1	2,4	0 / +0,1	0,3						
1,9	1,4	2,6	2,7	0,4	0,1	2,55	0 / +0,1	0,4						
2 1,98	1,5	2,7	2,8	0,4	0,1	2,7	0 / +0,1	0,4						
2,4	1,8	3,2	3,3	0,5	0,1	3,2	0 / +0,15	0,4						
2,5	1,85	3,3	3,4	0,5	0,1	3,4	0 / +0,15	0,6						
2,62 2,65	2	3,6	3,8	0,6	0,1	3,5	0 / +0,15	0,6						
2,7	2,05	3,6	3,8	0,6	0,1	3,65	0 / +0,15	0,6						
3	2,3	4	4	0,6	0,15	4	0 / +0,2	0,6						
3,1	2,4	4,1	4,1	0,6	0,15	4,1	0 / +0,2	0,6						
3,5	2,65	4,6	4,7	0,6	0,15	4,7	0 / +0,2	0,9						
3,53 3,55	2,7	4,8	5	0,8	0,15	4,8	0 / +0,2	0,9	2,9	±0,07	2,9	3,1	0,6	0,2
3,6	2,8	4,8	5,1	0,8	0,15	4,9	0 / +0,2	0,9	3	±0,07	3	3,2	0,6	0,2
4	3,1	5,2	5,3	0,8	0,15	5,4	0 / +0,2	1,2	3,3	±0,08	3,3	3,5	0,7	0,2
4,5	3,5	5,8	5,9	0,8	0,15	6,1	0 / +0,2	1,2	3,7	±0,09	3,7	4	0,7	0,3
5	4	6,6	6,7	0,8	0,15	6,7	0 / +0,25	1,2	4,1	±0,1	4,1	4,4	0,8	0,3
5,34 5,3	4,3	7,1	7,3	1,2	0,2	7,1	0 / +0,25	1,5	4,4	±0,11	4,4	4,7	0,9	0,3
5,5	4,5	7,1	7,3	1,2	0,2	7,4	0 / +0,25	1,5	4,5	±0,11	4,5	4,8	0,9	0,3
5,7	4,6	7,2	7,4	1,2	0,2	7,6	0 / +0,25	1,5	4,7	±0,11	4,7	5	0,9	0,3
6	4,9	7,4	7,6	1,2	0,2	8	0 / +0,3	1,5	5	±0,12	5	5,5	1	0,4
7 6,99	5,8	9,5	9,7	1,5	0,2	9,4	0 / +0,3	2	5,8	±0,14	5,8	6,3	1,2	0,4
8	6,7	9,8	10	1,5	0,2	10,8	0 / +0,3	2	6,7	±0,16	6,7	7,3	1,3	0,5
8,4	7,1	10	10,3	1,5	0,2	11,3	0 / +0,3	2	7	±0,17	7	7,6	1,5	0,5
10	8,6	13	13,6	1,5	0,3	13,7	0 / +0,3	2,5	8,3	±0,2	8,3	9	1,7	0,6
12	10,4	15,6	15,7	1,5	0,3	16,5	0 / +0,3	3	10	±0,2	10	10,7	1,7	0,6



DYNAMIC SEALING FOR PNEUMATIC CYLINDERS

DYNAMIC SEALING FOR HYDRAULIC CYLINDERS

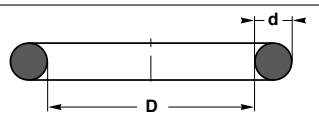
We recommend to respect the tolerances, surface finish and chamfers described on page 81.

Table 83A
Pneumatic: dimensions of grooves for **dynamic sealing**. ISO-norm in grey

d	g	L 0/+0,20	r1	r2
1 1,02	0,95	1,3	0,2	0,1
1,5 1,52	1,35	1,9	0,2	0,1
1,6 1,63	1,45	2	0,3	0,1
1,78 1,8	1,55	2,3	0,3	0,1
1,9	1,75	2,4	0,4	0,1
2 1,98	1,8	2,5	0,4	0,1
2,4	2,15	2,9	0,5	0,1
2,5	2,25	3	0,5	0,1
2,62 2,65	2,35	3,1	0,6	0,1
2,7	2,45	3,3	0,6	0,1
3	2,75	3,6	0,6	0,15
3,1	2,85	3,7	0,6	0,15
3,5	3,25	4,2	0,6	0,15
3,53 3,55	3,25	4,2	0,8	0,15
3,6	3,35	4,3	0,8	0,15
4	3,7	4,8	0,8	0,15
4,5	4,2	5,4	0,8	0,15
5	4,65	6	0,8	0,15
5,34 5,3	4,95	6,4	1,2	0,2
5,5	5,15	6,6	1,2	0,2
5,7	5,35	6,9	1,2	0,2
6	5,65	7,2	1,2	0,2
7 6,99	6,6	8,4	1,5	0,2
8	7,6	9,6	1,5	0,2
8,4	7,9	10,1	1,5	0,2

Table 83B
Hydraulic: dimensions of grooves for **dynamic sealing**. ISO-norm in grey

d	g	L 0/+0,20	r1	r2
1 1,02	0,9	1,4	0,2	0,1
1,5 1,52	1,25	2	0,2	0,1
1,6 1,63	1,3	2,1	0,3	0,1
1,78 1,80	1,55	2,4	0,4	0,1
1,9	1,55	2,6	0,4	0,1
2 1,98	1,65	2,7	0,4	0,1
2,4	2,05	3,2	0,5	0,1
2,5	2,15	3,3	0,5	0,1
2,62 2,65	2,25	3,6	0,6	0,1
2,7	2,3	3,6	0,6	0,1
3	2,6	4	0,6	0,15
3,1	2,7	4,1	0,6	0,15
3,5	3,05	4,6	0,6	0,15
3,53 3,55	3,1	4,8	0,8	0,15
3,6	3,15	4,8	0,8	0,15
4	3,5	5,2	0,8	0,15
4,5	4	5,8	0,8	0,15
5	4,4	6,6	0,8	0,15
5,34 5,3	4,7	7,1	1,2	0,2
5,5	4,8	7,1	1,2	0,2
5,7	5	7,2	1,2	0,2
6	5,3	7,4	1,2	0,2
7 6,99	6,1	9,5	1,5	0,2
8	7,1	9,8	1,5	0,2
8,4	7,5	10	1,5	0,2



Example of item code

04 353 3609 GN

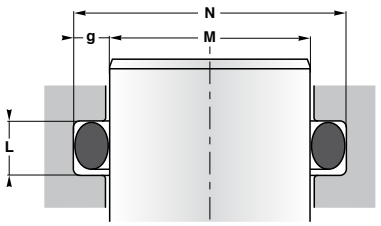
Material — Colour

d (mm) x 100 — **D** (mm) x 100

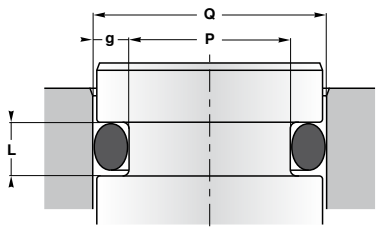
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-rings are endless round sealing rings with a circular cross section. They are made through vulcanisation form moulding tools as a complete ring.

The sealing function of the O-ring is achieved by the deformation of the cross-section when installed and compressed in its housing.

The O-ring can be compressed either radial or axial in its installation housing. In operating conditions the pressure exerted by the fluid reinforces the sealing function. Under pressure the elastomer material functions as a non-compressible fluid.

O-ring cross section	O-ring D x d	DIN	R
1	1 x 1	•	
	1,15 x 1		R000
	1,5 x 1	•	
	1,8 x 1	•	
	2 x 1	•	
	2,5 x 1	•	
	3 x 1	•	
	3,5 x 1	•	
	4 x 1	•	
	4,5 x 1	•	
	5 x 1	•	
	5,5 x 1	•	
	6 x 1	•	
	6,5 x 1	•	
	7 x 1	•	
	7,5 x 1	•	
	8 x 1	•	
	8,5 x 1	•	
	9 x 1	•	
	9,5 x 1	•	
	10 x 1	•	
	10,5 x 1	•	
	11 x 1	•	
	11,5 x 1	•	
	12 x 1	•	
	12,5 x 1	•	
	13 x 1	•	
	13,5 x 1	•	
	14 x 1	•	
	14,5 x 1	•	
	15 x 1	•	
	15,5 x 1	•	
	16 x 1	•	

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring D x d	DIN
1	16,5 x 1	•
	17 x 1	•
	17,5 x 1	•
	18 x 1	•
	18,5 x 1	•
	19 x 1	•
	19,5 x 1	•
	20 x 1	•
	20,5 x 1	•
	21 x 1	•
	21,5 x 1	•
	22 x 1	•
	22,5 x 1	•
	23 x 1	•
	23,5 x 1	•
	24 x 1	•
	24,5 x 1	•
	25 x 1	•
	30 x 1	•
	32 x 1	•
	36 x 1	•
	40 x 1	•
	50 x 1	•
	60 x 1	•
	70 x 1	•

O-ring cross section	O-ring D x d	AS/BS
1,02	0,74 x 1,02	001
	1,78 x 1,02	3,5

O-ring cross section	O-ring D x d	
1,2	30 x 1,2	

O-ring cross section	O-ring D x d	
1,25	5 x 1,25	

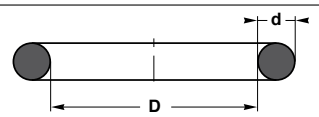
O-ring cross section	O-ring D x d	AS/BS
1,27	1,07 x 1,27	002

O-ring cross section	O-ring D x d	
1,3	30 x 1,3	
	39,1 x 1,3	

O-ring cross section	O-ring D x d	AS/BS
1,42	4,7 x 1,42	901

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	R	(F)	NF	NF T 47-501	(F)
DIN	DIN 3770 (D)	SMS	SMS 1586	(S)	BS met	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	JIS	JIS B 2401	(J)	ITALY		(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**



Example of item code

04 353 3609 GN

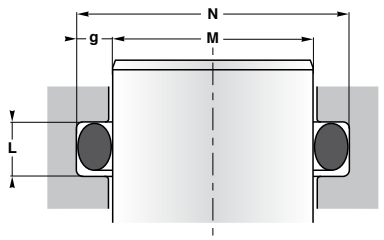
Material — Colour

d (mm) x 100 — **D** (mm) x 100

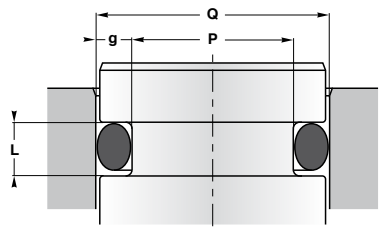
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

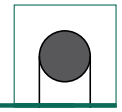
Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN
1,5	1,85 x 1,5	•
	2 x 1,5	•
	2,5 x 1,5	•
	2,8 x 1,5	•
	3 x 1,5	•
	3,5 x 1,5	•
	4 x 1,5	•
	4,5 x 1,5	•
	5 x 1,5	•
	5,5 x 1,5	•
	6 x 1,5	•
	6,5 x 1,5	•
	7 x 1,5	•
	7,5 x 1,5	•
	8 x 1,5	•
	8,5 x 1,5	•
	9 x 1,5	•
	9,5 x 1,5	•
	10 x 1,5	•
	10,5 x 1,5	•
	11 x 1,5	•
	11,5 x 1,5	•
	12 x 1,5	•
	12,5 x 1,5	•
	13 x 1,5	•
	13,5 x 1,5	•
	14 x 1,5	•
	14,5 x 1,5	•
	15 x 1,5	•
	15,5 x 1,5	•
	16 x 1,5	•
	16,5 x 1,5	•
	17 x 1,5	•
	17,5 x 1,5	•
	18 x 1,5	•
	18,5 x 1,5	•
	19 x 1,5	•
	19,5 x 1,5	•
	20 x 1,5	•

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.



O-ring cross section	O-ring D x d	DIN
1,5	20,5 x 1,5	•
	21 x 1,5	•
	21,5 x 1,5	•
	22 x 1,5	•
	22,5 x 1,5	•
	23 x 1,5	•
	23,5 x 1,5	•
	24 x 1,5	•
	24,5 x 1,5	•
	25 x 1,5	•
	25,5 x 1,5	•
	26 x 1,5	•
	26,5 x 1,5	•
	27 x 1,5	•
	27,5 x 1,5	•
	28 x 1,5	•
	28,5 x 1,5	•
	29 x 1,5	•
	29,5 x 1,5	•
	30 x 1,5	•
	31 x 1,5	•
	31,5 x 1,5	•
	32 x 1,5	•
	32,5 x 1,5	•
	33 x 1,5	•
	34 x 1,5	•
	35 x 1,5	•
	36 x 1,5	•
	36,5 x 1,5	•
	37 x 1,5	•
	38 x 1,5	•
	39 x 1,5	•
	39,5 x 1,5	•
	40 x 1,5	•
	41 x 1,5	•
	42 x 1,5	•
	43 x 1,5	•
	44 x 1,5	•
	45 x 1,5	•

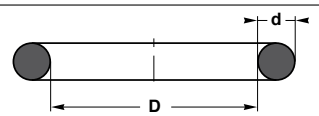
O-ring cross section	O-ring D x d	DIN
1,5	46 x 1,5	•
	47 x 1,5	•
	48 x 1,5	•
	49 x 1,5	•
	50 x 1,5	•
	51 x 1,5	•
	52 x 1,5	•
	53 x 1,5	•
	54 x 1,5	•
	55 x 1,5	•
	57 x 1,5	•
	58 x 1,5	•
	59 x 1,5	•
	60 x 1,5	•
	61 x 1,5	•
	62 x 1,5	•
	63 x 1,5	•
	64 x 1,5	•
	65 x 1,5	•
	66 x 1,5	•
	67 x 1,5	•
	68 x 1,5	•
	69 x 1,5	•
	70 x 1,5	•
	71 x 1,5	•
	72 x 1,5	•
	73 x 1,5	•
	74 x 1,5	•
	75 x 1,5	•
	76 x 1,5	•
	77 x 1,5	•
	78 x 1,5	•
	79 x 1,5	•
	80 x 1,5	•
	81 x 1,5	•
	82 x 1,5	•
	83 x 1,5	•
	84 x 1,5	•
	85 x 1,5	•

O-ring cross section	O-ring D x d	DIN
1,5	86 x 1,5	•
	87 x 1,5	•
	88 x 1,5	•
	89 x 1,5	•
	90 x 1,5	•
	91 x 1,5	•
	92 x 1,5	•
	93 x 1,5	•
	94 x 1,5	•
	95 x 1,5	•
	96 x 1,5	•
	97 x 1,5	•
	98 x 1,5	•
	100 x 1,5	•
	110 x 1,5	•

O-ring cross section	O-ring D x d	AS/BS
1,52	1,42 x 1,52	003

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**		(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586	(S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401	(J)	**ITALY**		(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**



Example of item code

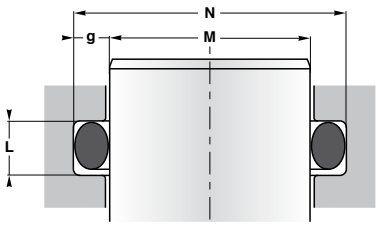
04 353 3609 GN

Material — Colour
d (mm) x 100 — **D** (mm) x 100

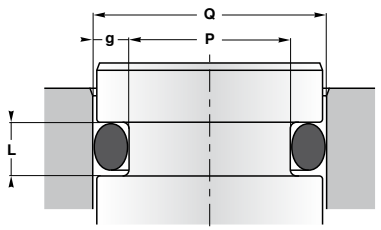
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

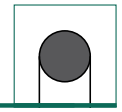
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN	R	SMS	BS met
1,6	2,2 x 1,6		R00		
	2,75 x 1,6		R1b		
	3,1 x 1,6	•		•	0031-16
	4,1 x 1,6			•	0041-16
	4,7 x 1,6	•			
	5 x 1,6	•			
	5,1 x 1,6			•	0051-16
	6 x 1,6				
	6,1 x 1,6			•	0061-16
	7,1 x 1,6			•	0071-16
	8,1 x 1,6			•	0081-16
	9,1 x 1,6			•	0091-16
	10,1 x 1,6			•	0101-16
	11,1 x 1,6			•	0111-16
	12,1 x 1,6			•	0121-16
	13,1 x 1,6			•	0131-16
	14,1 x 1,6			•	0141-16
	15,1 x 1,6			•	0151-16
	16,1 x 1,6			•	0161-16
	17,1 x 1,6			•	0171-16
	18,1 x 1,6			•	0181-16
	19,1 x 1,6			•	0191-16
	20,1 x 1,6	•			
	21,1 x 1,6	•			
	22,1 x 1,6			•	0221-16
	25,1 x 1,6			•	0251-16
	27,1 x 1,6			•	0271-16
	29,1 x 1,6			•	0291-16
	32,1 x 1,6			•	0321-16
	35,1 x 1,6			•	0351-16
	37,1 x 1,6			•	0371-16

O-ring cross section	O-ring D x d	AS/BS
1,63	6,07 x 1,63	902
	7,65 x 1,63	903

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.



O-ring cross section	O-ring D x d	AS/BS	R	ITALY
1,78	1,78 x 1,78	004		2007
	2,57 x 1,78	005		2010
	2,9 x 1,78	006		2012
	3,17 x 1,78	801		
	3,68 x 1,78	007		2015
	4,47 x 1,78	008		2018
	4,76 x 1,78	802		
	5,28 x 1,78	009		2021
	6,07 x 1,78	010		2025
	6,35 x 1,78	803	R5b	
	6,75 x 1,78	610		.106
	7,65 x 1,78	011		2031
	7,94 x 1,78	804		
	8,73 x 1,78	611		
	9,25 x 1,78	012		2037
	9,52 x 1,78		R8b	
	10,82 x 1,78	013		2043
	11,11 x 1,78	806		.114
	12,42 x 1,78	014		2050
	14 x 1,78	015		2056
	15,6 x 1,78	016		2062
	17,17 x 1,78	017		2068
	18,77 x 1,78	018		2075
	20,35 x 1,78	019		2081
	21,95 x 1,78	020		2087
	23,52 x 1,78	021		2093
	25,12 x 1,78	022		2100
	26,7 x 1,78	023		2106
	28,3 x 1,78	024		2112
	29,87 x 1,78	025		2118
	31,47 x 1,78	026		2125
	33,05 x 1,78	027		2131
	34,65 x 1,78	028		2137
	36,27 x 1,78	517		
	37,82 x 1,78	029		2150
	39,45 x 1,78	519		
	41 x 1,78	030		2162
	44,17 x 1,78	031		2175
	47,35 x 1,78	032		2187

O-ring cross section	O-ring D x d	AS/BS	R	ITALY
1,78	50,52 x 1,78	033		2200
	53,7 x 1,78	034		2212
	56,87 x 1,78	035		2225
	60,05 x 1,78	036		2237
	63,22 x 1,78	037		2250
	66,4 x 1,78	038		2262
	69,57 x 1,78	039		2275
	72,75 x 1,78	040		2287
	75,92 x 1,78	041		2300
	79 x 1,78	532		2312
	82,27 x 1,78	042		2325
	85,34 x 1,78	534		2337
	88,62 x 1,78	043		2350
	91,7 x 1,78	536		2362
	94,97 x 1,78	044		2375
	98,05 x 1,78	538		2387
	101,32 x 1,78	045		2400
	104,4 x 1,78	540		2412
	107,67 x 1,78	046		2425
	110,74 x 1,78	542		2437
	114,02 x 1,78	047		2450
	117,1 x 1,78	544		2462
	120,37 x 1,78	048		2475
	123,44 x 1,78	546		2487
	126,72 x 1,78	049		2500
	129,4 x 1,78	548		2512
	133,07 x 1,78	050		2525
	135,76 x 1,78	550		2537
	138,94 x 1,78	551		2550
	142,11 x 1,78	552		2562
	145,29 x 1,78	553		2575
	148,46 x 1,78	554		2587
	151,64 x 1,78	555		2600
	154,81 x 1,78	556		2612
	158 x 1,78	557		2625
	161,16 x 1,78	558		2637
	164,34 x 1,78	559		2652
	167,51 x 1,78	560		2662
	170,69 x 1,78	561		2675
	173,87 x 1,78	562		2687

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**

Example of item code

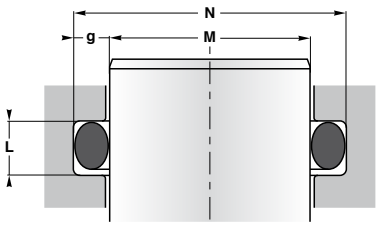
04 353 3609 GN

Material — d (mm) x 100 — D (mm) x 100 — Colour

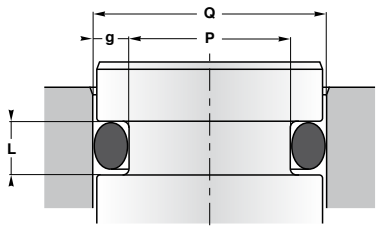
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

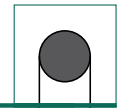
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	ISO/DIN	NF
1,8	1,8 x 1,8	•	•
	2 x 1,8	•	•
	2,24 x 1,8	•	•
	2,5 x 1,8	•	•
	2,8 x 1,8	•	•
	3,15 x 1,8	•	•
	3,55 x 1,8	•	•
	3,75 x 1,8	•	
	4 x 1,8	•	•
	4,5 x 1,8	•	
	4,87 x 1,8	•	•
	5 x 1,8	•	•
	5,15 x 1,8	•	•
	5,3 x 1,8	•	•
	5,6 x 1,8	•	•
	6 x 1,8	•	•
	6,3 x 1,8	•	•
	6,7 x 1,8	•	•
	6,9 x 1,8	•	•
	7,1 x 1,8	•	•
	7,5 x 1,8	•	•
	8 x 1,8	•	•
	8,5 x 1,8	•	•
	8,75 x 1,8		•
	9 x 1,8	•	•
	9,5 x 1,8	•	•
	10 x 1,8	•	•
	10,6 x 1,8	•	•
	11,2 x 1,8	•	•
	11,8 x 1,8	•	•
	12,5 x 1,8	•	•
	13,2 x 1,8	•	•
	14 x 1,8	•	•
	15 x 1,8	•	•
	16 x 1,8	•	•
	17 x 1,8	•	•

O-ring cross section	O-ring D x d	AS/BS
1,83	8,92 x 1,83	904
	10,52 x 1,83	905

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

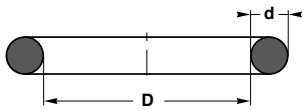


O-ring cross section	O-ring D x d	R	JIS
1,9	2,4 x1,9	R0	
	2,6 x1,9	R1	
	2,8 x1,9		P3
	3,4 x1,9	R2	
	3,8 x1,9		P4
	4,2 x1,9	R3	
	4,8 x1,9		P5
	4,9 x1,9	R4	
	5,7 x1,9	R5	
	5,8 x1,9		P6
	6,4 x1,9	R5a	
	6,8 x1,9		P7
	7,2 x1,9	R6	
	7,8 x1,9		P8
	8 x1,9	R6a	
	8,8 x1,9		P9
	8,9 x1,9	R7	
	9,8 x1,9		P10
	16 x 1,9		

O-ring cross section	O-ring D x d	AS/BS
1,98	11,89 x1,98	906

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**		(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**



Example of item code

04 353 3609 GN

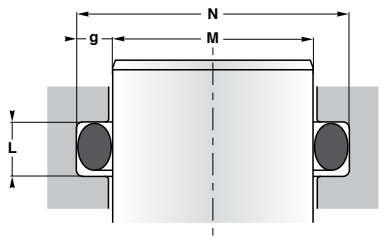
Material — Colour

d (mm) x 100 — **D** (mm) x 100

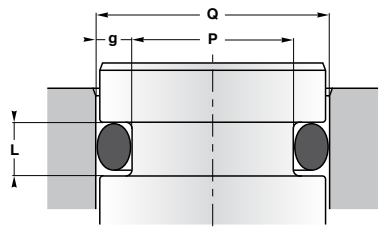
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN
2	2,5 x 2	•
	3 x 2	•
	3,5 x 2	•
	4 x 2	•
	4,5 x 2	•
	5 x 2	•
	5,5 x 2	•
	6 x 2	•
	6,5 x 2	•
	7 x 2	•
	7,5 x 2	•
	8 x 2	•
	8,5 x 2	•
	9 x 2	•
	9,5 x 2	•
	10 x 2	•
	10,5 x 2	•
	11 x 2	•
	11,5 x 2	•
	12 x 2	•
	12,5 x 2	•
	13 x 2	•
	13,5 x 2	•
	14 x 2	•
	14,5 x 2	•
	15 x 2	•
	15,5 x 2	•
	16 x 2	•
	16,5 x 2	•
	17 x 2	•
	17,5 x 2	•
	18 x 2	•
	18,5 x 2	•
	19 x 2	•
	19,5 x 2	•
	20 x 2	•
	20,5 x 2	•
	21 x 2	•
	21,5 x 2	•
	22 x 2	•
	22,5 x 2	•
	23 x 2	•
	23,5 x 2	•
	24 x 2	•
	24,5 x 2	•
	25 x 2	•
	25,5 x 2	•
	26 x 2	•
	26,5 x 2	•
	27 x 2	•
	27,5 x 2	•
	28 x 2	•
	28,5 x 2	•
	29 x 2	•
	29,5 x 2	•
	30 x 2	•
	30,5 x 2	•
	31 x 2	•
	31,5 x 2	•
	32 x 2	•
	32,5 x 2	•
	33 x 2	•
	33,5 x 2	•
	34 x 2	•
	34,5 x 2	•
	35 x 2	•
	35,5 x 2	•
	36 x 2	•
	36,5 x 2	•
	37 x 2	•
	37,5 x 2	•
	38 x 2	•
	38,5 x 2	•
	39 x 2	•
	39,5 x 2	•
	40 x 2	•
	41 x 2	•
	42 x 2	•
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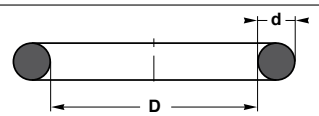
	107 x 2	•
	110 x 2	•
	112 x 2	•
	115 x 2	•
	118 x 2	•
	120 x 2	•
	123 x 2	•
	125 x 2	•
	128 x 2	•
	130 x 2	•
	132 x 2	•
	140 x 2	•
	150 x 2	•
	160 x 2	•
	165 x 2	•
	180 x 2	•
	194 x 2	•
	200 x 2	•

ISO/DIN	ISO 3601/DIN 3771	EU D	**R**		F	**NF**	NF T 47-501 F
DIN	DIN 3770	D	**SMS**	SMS 1586	S	**BS met**	BS 4518 GB
AS/BS	AS 568A / BS 1806	USA GB	**JIS**	JIS B 2401	J	**ITALY**	I



Example of item code

04 353 3609 GN

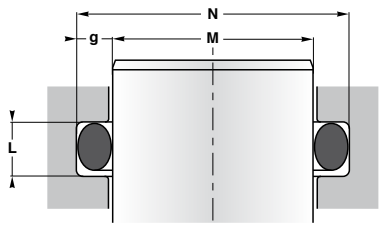
Material — Colour

d (mm) x 100 — **D** (mm) x 100

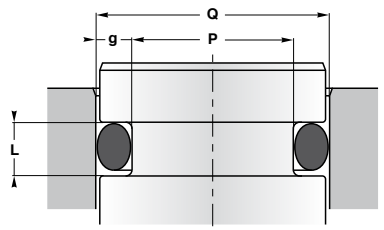
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	R
2,08	13,46 x 2,08	907

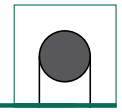
O-ring cross section	O-ring D x d	JIS
2,2	6 x 2,2	R6b
	9 x 2,2	

O-ring cross section	O-ring D x d	R
2,21	16,36 x 2,21	908

O-ring cross section	O-ring D x d	
2,3	14 x 2,3	
	22 x 2,3	
	160 x 2,3	

O-ring cross section	O-ring D x d	DIN	R	SMS	JIS	BS met
2,4	3,3 x 2,4			•		
	3,6 x 2,4					0036-24
	4,3 x 2,4			•		
	4,6 x 2,4					0046-24
	5,3 x 2,4			•		
	5,5 x 2,4	•				
	5,6 x 2,4					0056-24
	6,3 x 2,4			•		
	6,6 x 2,4					0066-24
	7,3 x 2,4			•		
	7,5 x 2,4	•				
	7,6 x 2,4					0076-24
	8,3 x 2,4			•		
	8,6 x 2,4					0086-24
	9,3 x 2,4			•		
	9,6 x 2,4					0096-24
	9,8 x 2,4				P10A	
	10,3 x 2,4			•		

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

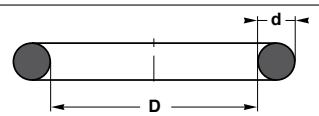


O-ring cross section	O-ring D x d	DIN	R	SMS	JIS	BS met
2,4	10,5 x 2,4	•				
	10,6 x 2,4					0106-24
	10,8 x 2,4				P11	
	11 x 2,4				P11.2	
	11,3 x 2,4			•		
	11,5 x 2,4	•				
	11,6 x 2,4					0116-24
	11,8 x 2,4				P12	
	12,3 x 2,4			•		
	12,6 x 2,4					0126-24
	13,3 x 2,4			•		
	13,5 x 2,4	•				
	13,6 x 2,4					0136-24
	13,8 x 2,4				P14	
	14,3 x 2,4			•		
	14,5 x 2,4	•				
	14,6 x 2,4					0146-24
	14,8 x 2,4				P15	
	15,3 x 2,4			•		
	15,5 x 2,4	•				
	15,6 x 2,4					0156-24
	15,8 x 2,4				P16	
	16,3 x 2,4			•		
	16,6 x 2,4					0166-24
	17,3 x 2,4			•		
	17,5 x 2,4	•				
	17,6 x 2,4					0176-24
	17,8 x 2,4				P18	
	18,3 x 2,4			•		
	18,6 x 2,4					0186-24
	19,3 x 2,4			•		
	19,6 x 2,4					0196-24
	19,8 x 2,4				P20	
	20,3 x 2,4			•		
	20,5 x 2,4	•				
	20,8 x 2,4				P21	

O-ring cross section	O-ring D x d	DIN	R	SMS	JIS	BS met
2,4	21,3 x 2,4			•		
	21,5 x 2,4	•				
	21,6 x 2,4					0216-24
	21,8 x 2,4				P22	
	22,3 x 2,4			•		
	23,3 x 2,4			•		
	23,5 x 2,4	•				
	24,5 x 2,4	•				
	24,6 x 2,4					0246-24
	25 x 2,4		R19b			
	25,3 x 2,4			•		
	27,3 x 2,4			•		
	27,5 x 2,4	•				
	27,6 x 2,4					0276-24
	29,6 x 2,4					0296-24
	30,3 x 2,4			•		
	31,6 x 2,4					0316-24
	33,3 x 2,4			•		
	34,6 x 2,4					0346-24
	37,6 x 2,4					0376-24
	39,6 x 2,4					0396-24
	41,6 x 2,4					0416-24
	44,6 x 2,4					0446-24
	47,6 x 2,4					0476-24
	49,6 x 2,4					0496-24
	51,6 x 2,4					0516-24
	54,6 x 2,4					0546-24
	57,6 x 2,4					0576-24
	59,6 x 2,4					0596-24
	61,6 x 2,4					0616-24
	64,6 x 2,4					0646-24
	67,6 x 2,4					0676-24
	69,6 x 2,4					0696-24
	87,1 x 2,4					

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**



Example of item code

04 353 3609 GN

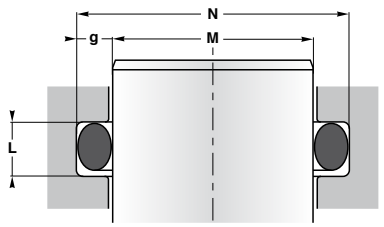
Material — Colour

d (mm) x 100 — **D** (mm) x 100

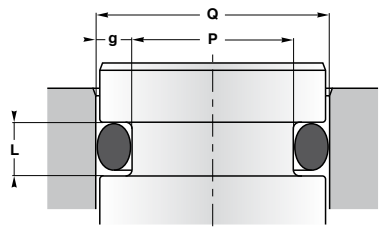
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	AS/BS
2,46	17,93 x 2,46	909
	19,18 x 2,46	910

O-ring cross section	O-ring D x d	DIN
2,5	4 x 2,5	•
	4,6 x 2,5	•
	5 x 2,5	•
	5,5 x 2,5	•
	6 x 2,5	•
	6,5 x 2,5	•
	7 x 2,5	•
	7,5 x 2,5	•
	8 x 2,5	•
	8,5 x 2,5	•
	9 x 2,5	•
	9,5 x 2,5	•
	10 x 2,5	•
	10,5 x 2,5	•
	11 x 2,5	•
	11,5 x 2,5	•
	12 x 2,5	•
	12,5 x 2,5	•
	13 x 2,5	•
	13,5 x 2,5	•
	14 x 2,5	•
	14,5 x 2,5	•
	15 x 2,5	•
	15,5 x 2,5	•
	16 x 2,5	•
	16,5 x 2,5	•
	17 x 2,5	•
	17,5 x 2,5	•
	18 x 2,5	•
	18,5 x 2,5	•
	19 x 2,5	•
	19,5 x 2,5	•
	20 x 2,5	•
	20,5 x 2,5	•
	21 x 2,5	•
	21,5 x 2,5	•
	22 x 2,5	•
	22,5 x 2,5	•
	23 x 2,5	•

O-ring cross section	O-ring D x d	DIN
2,5	23,5 x 2,5	•
	24 x 2,5	•
	24,5 x 2,5	•
	25 x 2,5	•
	25,5 x 2,5	•
	26 x 2,5	•
	26,5 x 2,5	•
	27 x 2,5	•
	27,5 x 2,5	•
	28 x 2,5	•
	28,5 x 2,5	•
	29 x 2,5	•
	29,5 x 2,5	•
	30 x 2,5	•
	30,5 x 2,5	•
	31 x 2,5	•
	31,5 x 2,5	•
	32 x 2,5	•
	32,5 x 2,5	•
	33 x 2,5	•
	33,5 x 2,5	•
	34 x 2,5	•
	34,5 x 2,5	•
	35 x 2,5	•
	35,5 x 2,5	•
	36 x 2,5	•
	36,5 x 2,5	•
	37 x 2,5	•
	37,5 x 2,5	•
	38 x 2,5	•
	38,5 x 2,5	•
	39 x 2,5	•
	39,5 x 2,5	
	40 x 2,5	•
	41 x 2,5	•
	42 x 2,5	•
	43 x 2,5	•
	44 x 2,5	•
	45 x 2,5	•

O-ring cross section	O-ring D x d	DIN
2,5	46 x 2,5	•
	47 x 2,5	•
	48 x 2,5	•
	49 x 2,5	•
	50 x 2,5	•
	51 x 2,5	•
	52 x 2,5	•
	53 x 2,5	•
	54 x 2,5	•
	55 x 2,5	•
	56 x 2,5	•
	57 x 2,5	•
	58 x 2,5	•
	59 x 2,5	•
	60 x 2,5	•
	61 x 2,5	•
	62 x 2,5	•
	63 x 2,5	•
	64 x 2,5	•
	65 x 2,5	•
	66 x 2,5	•
	67 x 2,5	•
	68 x 2,5	•
	69 x 2,5	•
	70 x 2,5	•
	71 x 2,5	•
	72 x 2,5	•
	73 x 2,5	•
	74 x 2,5	•
	75 x 2,5	•
	76 x 2,5	•
	77 x 2,5	•
	78 x 2,5	•
	79 x 2,5	•
	80 x 2,5	•
	81 x 2,5	•
	82 x 2,5	•
	83 x 2,5	•
	84 x 2,5	•

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**		(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586	(S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401	(J)	**ITALY**		(I)

Example of item code

04 353 3609 GN

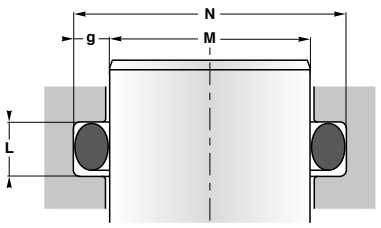
Material — Colour

d (mm) x 100 — **D** (mm) x 100

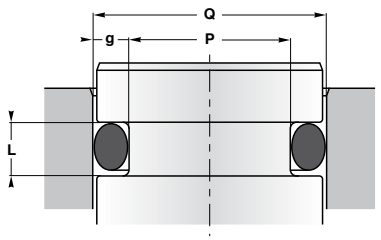
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN
2,5	85 x 2,5	•
	86 x 2,5	•
	87 x 2,5	•
	88 x 2,5	•
	89 x 2,5	•
	90 x 2,5	•
	91 x 2,5	•
	92 x 2,5	•
	93 x 2,5	•
	94 x 2,5	•
	95 x 2,5	•
	96 x 2,5	•
	97 x 2,5	•
	98 x 2,5	•
	99 x 2,5	•
	100 x 2,5	•
	101 x 2,5	•
	102 x 2,5	•
	103 x 2,5	•
	104 x 2,5	•
	105 x 2,5	•
	106 x 2,5	•
	107 x 2,5	•
	108 x 2,5	•
	109 x 2,5	•
	110 x 2,5	•
	112 x 2,5	•
	113 x 2,5	•
	114 x 2,5	•
	115 x 2,5	•
	116 x 2,5	•
	117 x 2,5	•
	118 x 2,5	•
	120 x 2,5	•
	121 x 2,5	•
	122 x 2,5	•
	123 x 2,5	•
	124 x 2,5	•
	125 x 2,5	•

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring D x d	DIN	JIS
2,5	127 x 2,5	•	
	128 x 2,5	•	
	129 x 2,5	•	
	130 x 2,5	•	
	133 x 2,5	•	
	134 x 2,5	•	
	135 x 2,5	•	
	137 x 2,5	•	
	139 x 2,5	•	
	140 x 2,5	•	
	141 x 2,5	•	
	142 x 2,5	•	
	143 x 2,5	•	
	145 x 2,5	•	
	146 x 2,5	•	
	147 x 2,5	•	
	148 x 2,5	•	
	150 x 2,5	•	
	155 x 2,5	•	P155

O-ring cross section	O-ring D x d	R	
2,55	29,1 x 2,55	R20b	

O-ring cross section	O-ring D x d	AS/BS	ITALY
2,62	1,24 x 2,62	102	
	2,06 x 2,62	103	
	2,84 x 2,62	104	
	3,63 x 2,62	105	
	4,42 x 2,62	106	
	5,23 x 2,62	107	
	6,02 x 2,62	108	
	7,59 x 2,62	109	
	9,13 x 2,62		.109
	9,19 x 2,62	110	3037
	9,9 x 2,62	613	.112
	10,77 x 2,62	111	3043
	11,91 x 2,62	614	.115
	12,37 x 2,62	112	3050
	12,7 x 2,62	807	
	13,1 x 2,62	615	.117
	13,94 x 2,62	113	3056
	15,08 x 2,62	616	.119
	15,54 x 2,62	114	3062
	15,88 x 2,62	809	.121
	17,12 x 2,62	115	3068
	17,46 x 2,62	810	
	17,86 x 2,62	617	.123
	18,72 x 2,62	116	3075
	20,3 x 2,62	117	3081
	20,64 x 2,62	812	.128
	21,89 x 2,62	118	3087
	22,23 x 2,62	813	.130
	23,47 x 2,62	119	3093
	23,81 x 2,62	814	.132
	25,07 x 2,62	120	3100
	26,64 x 2,62	121	3106
	28,24 x 2,62	122	3112
	29,82 x 2,62	123	3118
	31,42 x 2,62	124	3125
	32,99 x 2,62	125	3131
	34,59 x 2,62	126	3137
	36,17 x 2,62	127	3143
	37,77 x 2,62	128	3150

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**		(I)

The listed O-rings are not all stock items.
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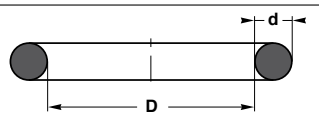


Example of item code

04 353 3609 GN

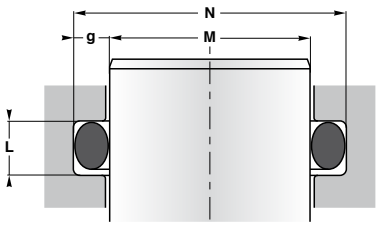
Material — Colour

d (mm) x 100 — **D** (mm) x 100

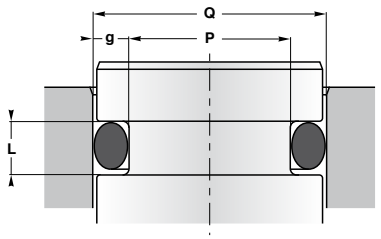
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



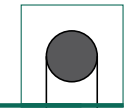
0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	AS/BS	ITALY
2,62	39,34 x 2,62	129	3156
	40,94 x 2,62	130	3162
	42,52 x 2,62	131	3168
	44,12 x 2,62	132	3175
	45,69 x 2,62	133	3181
	47,29 x 2,62	134	3187
	48,9 x 2,62	135	3193
	50,47 x 2,62	136	3200
	52,07 x 2,62	137	3206
	53,64 x 2,62	138	3212
	55,25 x 2,62	139	3218
	56,82 x 2,62	140	3225
	58,42 x 2,62	141	3231
	59,99 x 2,62	142	3237
	61,6 x 2,62	143	3243
	63,17 x 2,62	144	3250
	64,77 x 2,62	145	3256
	66,34 x 2,62	146	3262
	67,95 x 2,62	147	3268
	69,52 x 2,62	148	3275
	71,12 x 2,62	149	3281
	72,69 x 2,62	150	3287
	74,3 x 2,62	640	
	75,87 x 2,62	151	3300
	77,5 x 2,62	641	
	80,6 x 2,62	642	
	82,22 x 2,62	152	3325
	83,8 x 2,62	643	
	88,57 x 2,62	153	3350
	94,92 x 2,62	154	3375
	101,27 x 2,62	155	3400
	107,62 x 2,62	156	3425
	113,97 x 2,62	157	3450
	120,32 x 2,62	158	3475
	126,67 x 2,62	159	3500
	133,02 x 2,62	160	3525
	139,37 x 2,62	161	3550
	145,72 x 2,62	162	3575
	152,07 x 2,62	163	3600



O-ring cross section	O-ring D x d	AS/BS	ITALY
2,62	158,42 x 2,62	164	3625
	164,77 x 2,62	165	3650
	171,12 x 2,62	166	3675
	177,47 x 2,62	167	3700
	183,82 x 2,62	168	3725
	190,17 x 2,62	169	3750
	196,52 x 2,62	170	3775
	202,87 x 2,62	171	3800
	209,22 x 2,62	172	3825
	215,57 x 2,62	173	3850
	221,92 x 2,62	174	3875
	228,27 x 2,62	175	3900
	234,62 x 2,62	176	3925
	240,97 x 2,62	177	3950
	247,32 x 2,62	178	3975

O-ring cross section	O-ring D x d	ISO/DIN	NF
2,65	14 x 2,65	•	•
	15 x 2,65	•	•
	16 x 2,65	•	•
	17 x 2,65	•	•
	18 x 2,65	•	•
	19 x 2,65	•	•
	20 x 2,65	•	•
	21,2 x 2,65	•	•
	22,4 x 2,65	•	•
	23,6 x 2,65	•	•
	25 x 2,65	•	•
	25,8 x 2,65	•	•
	26,5 x 2,65	•	•
	28 x 2,65	•	•
	30 x 2,65	•	•
	31,5 x 2,65	•	•
	32,5 x 2,65	•	•
	33,5 x 2,65	•	•
	34,5 x 2,65	•	•
	35,5 x 2,65	•	•
	36,5 x 2,65	•	•
	37,5 x 2,65	•	•
	38,7 x 2,65	•	•

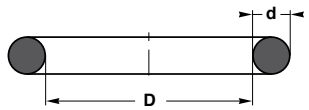
O-ring cross section	O-ring D x d	R
2,7	8,9 x 2,7	R8
	10,5 x 2,7	R9
	12,1 x 2,7	R10
	13,6 x 2,7	R11
	15,1 x 2,7	R12
	16,9 x 2,7	R13
	18,4 x 2,7	R14
	27,3 x 2,7	R20t

O-ring cross section	O-ring D x d	AS/BS
2,95	21,92 x 2,95	911
	23,47 x 2,95	912
	25,04 x 2,95	913
	26,59 x 2,95	914
	29,74 x 2,95	916
	34,42 x 2,95	918

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**		(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586	(S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401	(J)	**ITALY**		(I)

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**



Example of item code

04 353 3609 GN

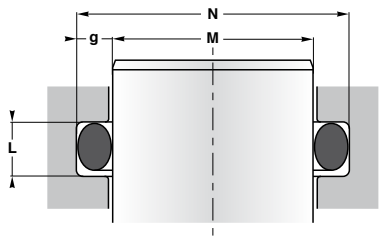
Material — Colour

d (mm) x 100 — **D** (mm) x 100

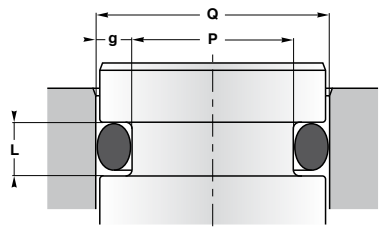
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

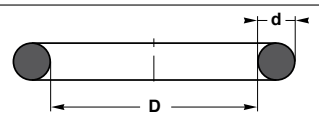
Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN	AS/BS	SMS	BS met
3	3 x 3	•			
	3,5 x 3	•			
	4 x 3	•			
	4,5 x 3	•			
	5 x 3	•			
	5,5 x 3	•			
	6 x 3	•			
	6,5 x 3	•			
	7 x 3	•			
	7,5 x 3	•			
	8 x 3	•			
	8,5 x 3	•			
	9 x 3	•			
	9,5 x 3	•			
	10 x 3	•			
	10,5 x 3	•			
	11 x 3	•			
	11,5 x 3	•			
	12 x 3	•			
	12,5 x 3	•			
	13 x 3	•			
	13,5 x 3	•			
	14 x 3	•			
	14,5 x 3	•			
	15 x 3	•			
	15,5 x 3	•			
	16 x 3	•			
	16,5 x 3	•			
	17 x 3	•			
	17,2 x 3			•	
	17,5 x 3	•			
	18 x 3	•			
	18,2 x 3			•	
	18,5 x 3	•			
	19 x 3	•			
	19,2 x 3			•	
	19,5 x 3	•			0195-30
	20 x 3	•			
	20,2 x 3			•	
	20,5 x 3	•			
	21 x 3	•			
	21,2 x 3			•	
	21,5 x 3	•			0215-30
	22 x 3	•			
	22,2 x 3			•	
	22,5 x 3	•			0225-30
	23 x 3	•			
	23,5 x 3	•			
	24 x 3	•			
	24,2 x 3			•	
	25,2 x 3			•	
	24,5 x 3	•			0245-30
	24,6 x 3				
	25 x 3	•			
	25,5 x 3	•			0255-30
	26 x 3	•			
	26,2 x 3			•	
	26,5 x 3	•			0265-30
	27 x 3	•			
	27,5 x 3	•			0275-30
	28 x 3	•			
	28,2 x 3			•	
	28,5 x 3	•			
	29 x 3	•			
	29,2 x 3			•	
	29,5 x 3	•			0295-30
	30 x 3	•			
	30,2 x 3			•	
	30,5 x 3	•			
	31 x 3	•			
	31,2 x 3			•	
	31,5 x 3	•			0315-30
	32 x 3	•			
	32,2 x 3			•	
	32,5 x 3	•			0325-30
	33 x 3	•			
	33,5 x 3	•			
	34 x 3	•			
	34,2 x 3			•	
	34,5 x 3	•			0345-30
	35 x 3	•			
	35,2 x 3			•	
	35,5 x 3	•			
	36 x 3	•			
	36,2 x 3			•	
	36,5 x 3	•			0365-30
	37 x 3	•			
	37,2 x 3			•	
	37,47 x 3		920		
	37,5 x 3	•			0375-30
	38 x 3	•			
	38,5 x 3	•			
	39 x 3	•			
	39,2 x 3			•	
	39,5 x 3	•			0395-30
	40 x 3	•			
	40,2 x 3			•	
	41 x 3	•			
	41,5 x 3	•			0415-30
	42 x 3	•			
	42,2 x 3			•	
	42,5 x 3	•			0425-30
	43 x 3	•			
	43,69 x 3		924		
	44 x 3	•			
	44,2 x 3			•	
	44,5 x 3	•			0445-30
	45 x 3	•			
	45,2 x 3			•	
	46 x 3	•			
	46,2 x 3			•	
	47 x 3	•			
	48 x 3	•			
	49 x 3	•			
	49,5 x 3	•		•	0495-30
	50 x 3	•			
	50,2 x 3			•	
	50,5 x 3	•			
	51 x 3	•			
	52 x 3	•			

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)



Example of item code

04 353 3609 GN

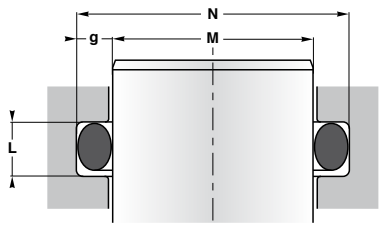
Material — Colour

d (mm) x 100 — **D** (mm) x 100

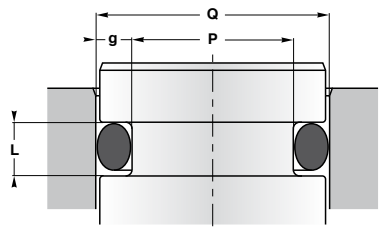
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

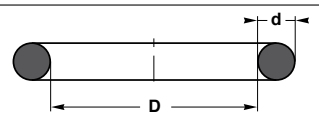
On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN	AS/BS	SMS	BS met
3	53 x 3	•			
	53,09 x 3		928		
	54 x 3	•			
	54,2 x 3				
	54,5 x 3	•		•	0545-30
	55 x 3	•			
	55,2 x 3			•	
	56 x 3	•			
	56,2 x 3			•	
	57 x 3	•			
	57,2 x 3			•	
	58 x 3	•			
	59 x 3	•			
	59,36 x 3		932		
	59,5 x 3	•		•	0595-30
	60 x 3	•			
	60,5 x 3			•	
	61 x 3	•			
	62 x 3	•			
	62,2 x 3			•	
	63 x 3	•			
	64 x 3	•			
	64,5 x 3	•		•	0645-30
	65 x 3	•			
	66 x 3	•			
	67 x 3	•			
	68 x 3	•			
	69 x 3	•			
	69,5 x 3	•		•	0695-30
	70 x 3	•			
	71 x 3	•			
	72 x 3	•			
	73 x 3	•			
	74 x 3	•			
	74,5 x 3	•		•	0745-30
	75 x 3	•			
	76 x 3	•			
	77 x 3	•			
	78 x 3	•			
	79 x 3	•			
	79,5 x 3	•		•	0795-30
	80 x 3	•			

O-ring cross section	O-ring D x d	DIN	AS/BS	SMS	BS met
3	81 x 3	•			
	82 x 3	•			
	83 x 3	•			
	84 x 3	•			
	84,5 x 3	•		•	0845-30
	85 x 3	•			
	86 x 3	•			
	87 x 3	•			
	88 x 3	•			
	89 x 3	•			
	89,5 x 3	•		•	0895-30
	90 x 3	•			
	91 x 3	•			
	92 x 3	•			
	93 x 3	•			
	94 x 3	•			
	94,5 x 3	•		•	0945-30
	95 x 3	•			
	96 x 3	•			
	97 x 3	•			
	98 x 3	•			
	99 x 3	•			
	99,5 x 3	•		•	0995-30
	100 x 3				
	101 x 3	•			
	102 x 3	•			
	103 x 3	•			
	104 x 3	•			
	104,5 x 3	•		•	1045-30
	105 x 3				
	106 x 3	•			
	107 x 3	•			
	108 x 3	•			
	109 x 3	•			
	109,5 x 3	•		•	1095-30
	110 x 3	•			
	111 x 3	•			
	112 x 3	•			
	113 x 3	•			

O-ring cross section	O-ring D x d	DIN	AS/BS	SMS	BS met
3	114 x 3	•			
	114,5 x 3	•		•	1145-30
	115 x 3	•			
	116 x 3	•			
	117 x 3	•			
	118 x 3	•			
	119 x 3	•			
	119,5 x 3	•		•	1195-30
	120 x 3	•			
	121 x 3				
	122 x 3	•			
	123 x 3	•			
	124 x 3	•			
	124,5 x 3	•		•	1245-30
	125 x 3				
	126 x 3	•			
	127 x 3				
	128 x 3	•			
	129 x 3	•			
	129,5 x 3	•		•	1295-30
	130 x 3	•			
	131 x 3				
	132 x 3	•			
	133 x 3	•			
	134 x 3	•			
	134,5 x 3	•		•	1345-30
	135 x 3	•			
	136 x 3	•			
	137 x 3	•			
	138 x 3	•			
	139 x 3	•			
	139,5 x 3	•		•	1395-30
	140 x 3	•			
	141 x 3				
	142 x 3	•			
	143 x 3	•			
	144 x 3	•			
	144,5 x 3	•		•	1445-30
	145 x 3	•			

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)



Example of item code

04 353 3609 GN

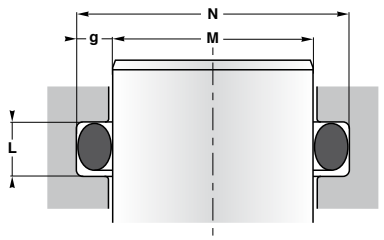
Material — Colour

d (mm) x 100 — **D** (mm) x 100

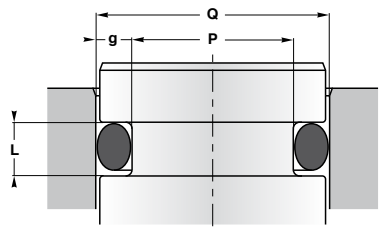
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN	AS/BS	SMS	BS met
3	146 x 3	•			
	147 x 3	•			
	148 x 3	•			
	149 x 3	•			
	149,5 x 3	•			1495-30
	150 x 3	•			
	151 x 3				
	152 x 3	•			
	153 x 3	•			
	154 x 3	•			
	154,5 x 3	•			1545-30
	155 x 3	•			
	156 x 3	•			
	157 x 3	•			
	158 x 3	•			
	159 x 3	•			
	159,5 x 3	•			1595-30
	160 x 3	•			
	161 x 3				
	162 x 3	•			
	163 x 3	•			
	164 x 3	•			
	164,5 x 3	•			1645-30
	165 x 3	•			
	166 x 3	•			
	167 x 3	•			
	168 x 3	•			
	169 x 3	•			
	169,5 x 3	•			1695-30
	170 x 3	•			
	172 x 3	•			
	173 x 3	•			
	174 x 3	•			
	174,5 x 3	•			1745-30
	175 x 3	•			
	176 x 3	•			
	177 x 3	•			
	178 x 3	•			
	179 x 3	•			
	179,5 x 3	•			1795-30
	180 x 3	•			
	182 x 3	•			

O-ring cross section	O-ring D x d	DIN	AS/BS	SMS	BS met
3	183 x 3	•			
	184 x 3	•			
	184,5 x 3	•			1845-30
	185 x 3	•			
	186 x 3	•			
	188 x 3	•			
	189 x 3	•			
	189,5 x 3	•			1895-30
	190 x 3	•			
	192 x 3	•			
	193 x 3	•			
	194 x 3	•			
	194,5 x 3	•			1945-30
	195 x 3	•			
	196 x 3	•			
	197 x 3	•			
	198 x 3	•			
	199,5 x 3	•			1995-30
	200 x 3	•			
	202 x 3	•			
	203 x 3	•			
	204 x 3	•			
	204,5 x 3	•			2045-30
	205 x 3	•			
	206 x 3	•			
	207 x 3	•			
	208 x 3	•			
	209,5 x 3	•			
	210 x 3	•			2095-30
	212 x 3	•			
	213 x 3	•			
	214 x 3	•			
	215 x 3	•			
	216 x 3	•			
	217 x 3	•			
	219 x 3	•			
	219,5 x 3	•			2195-30
	220 x 3	•			
	222 x 3	•			

O-ring cross section	O-ring D x d	DIN	AS/BS	SMS	BS met
3	224 x 3	•			
	225 x 3	•			
	226 x 3	•			
	227 x 3	•			
	228 x 3	•			
	229 x 3	•			
	229,5 x 3	•			2295-30
	230 x 3				
	232 x 3	•			
	233 x 3	•			
	234 x 3	•			
	235 x 3	•			
	237 x 3	•			
	238 x 3	•			
	239 x 3	•			
	239,5 x 3	•			2395-30
	240 x 3	•			
	242 x 3	•			
	243 x 3	•			
	244 x 3	•			
	245 x 3	•			
	246 x 3	•			
	247 x 3	•			
	248 x 3	•			
	249,5 x 3	•			2495-30
	250 x 3	•			
	270 x 3				
	280 x 3				
	309 x 3				
	310 x 3				
	315 x 3				

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)

Example of item code

04 353 3609 GN

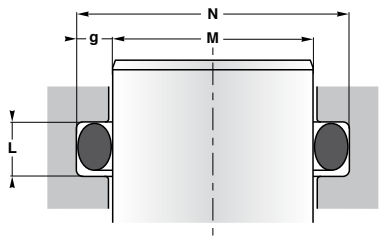
Material — Colour

d (mm) x 100 — **D** (mm) x 100

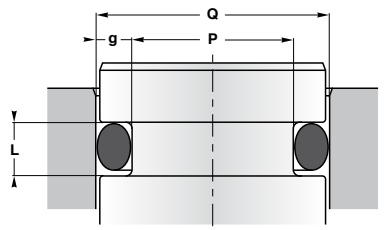
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	JIS
3,1	24,4 x 3,1	G25
	29,4 x 3,1	G30
	34,4 x 3,1	G35
	39,4 x 3,1	G40
	44,4 x 3,1	G45
	49,4 x 3,1	G50
	54,4 x 3,1	G55
	59,4 x 3,1	G60
	64,4 x 3,1	G65
	69,4 x 3,1	G70
	74,4 x 3,1	G75
	79,4 x 3,1	G80
	84,4 x 3,1	G85
	89,4 x 3,1	G90
	94,4 x 3,1	G95
	99,4 x 3,1	G100
	104,4 x 3,1	G105
	109,4 x 3,1	G110
	114,4 x 3,1	G115
	119,4 x 3,1	G120
	124,4 x 3,1	G125
	129,4 x 3,1	G130
	134,4 x 3,1	G135
	139,4 x 3,1	G140
	144,4 x 3,1	G145

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

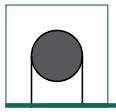
O-ring cross section	O-ring D x d	DIN	JIS
3,5	8 x 3,5	•	
	9 x 3,5	•	
	10 x 3,5	•	
	11 x 3,5	•	
	12 x 3,5	•	
	13 x 3,5	•	
	14 x 3,5	•	
	15 x 3,5	•	
	16 x 3,5	•	
	17 x 3,5	•	
	18 x 3,5	•	
	19 x 3,5	•	
	20 x 3,5	•	
	21 x 3,5	•	
	21,7 x 3,5		P22A
	22 x 3,5	•	
	22,1 x 3,5		P22.4
	23 x 3,5	•	
	23,7 x 3,5		P24
	24 x 3,5	•	
	24,7 x 3,5		P25
	25 x 3,5	•	
	25,2 x 3,5		P25.5
	25,7 x 3,5		P26
	26 x 3,5	•	
	27 x 3,5	•	
	27,7 x 3,5		P28
	28 x 3,5	•	
	28,7 x 3,5		P29
	29 x 3,5	•	
	29,2 x 3,5		P29.5
	29,7 x 3,5		P30
	30 x 3,5	•	
	30,7 x 3,5		P31
	31 x 3,5	•	
	31,7 x 3,5		P32
	32 x 3,5	•	
	33 x 3,5	•	
	33,7 x 3,5		P34

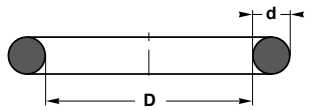
O-ring cross section	O-ring D x d	DIN	JIS
3,5	34 x 3,5	•	
	34,7 x 3,5		P35
	35 x 3,5	•	
	35,2 x 3,5		P35.5
	35,7 x 3,5		P36
	36 x 3,5	•	
	37 x 3,5	•	
	37,7 x 3,5		P38
	38 x 3,5	•	
	38,7 x 3,5		P39
	39 x 3,5	•	
	39,7 x 3,5		P40
	40 x 3,5	•	
	40,7 x 3,5		P41
	41 x 3,5	•	
	41,7 x 3,5		P42
	42 x 3,5	•	
	43 x 3,5	•	
	43,7 x 3,5		P44
	44 x 3,5	•	
	44,7 x 3,5		P45
	45 x 3,5	•	
	45,7 x 3,5		P46
	46 x 3,5	•	
	47 x 3,5	•	
	47,7 x 3,5		P47
	48 x 3,5	•	
	48,7 x 3,5		P49
	49 x 3,5	•	
	49,7 x 3,5		P50
	50 x 3,5	•	
	51 x 3,5	•	
	52 x 3,5	•	
	53 x 3,5	•	
	54 x 3,5	•	
	55 x 3,5	•	
	56 x 3,5	•	
	57 x 3,5	•	
	58 x 3,5	•	

O-ring cross section	O-ring D x d	DIN	JIS
3,5	59 x 3,5	•	
	60 x 3,5	•	
	61 x 3,5	•	
	62 x 3,5	•	
	63 x 3,5	•	
	64 x 3,5	•	
	65 x 3,5	•	
	66 x 3,5	•	
	67 x 3,5	•	
	68 x 3,5	•	
	69 x 3,5	•	
	70 x 3,5	•	
	71 x 3,5	•	
	72 x 3,5	•	
	73 x 3,5	•	
	74 x 3,5	•	
	75 x 3,5	•	
	76 x 3,5	•	
	77 x 3,5	•	
	78 x 3,5	•	
	79 x 3,5	•	
	80 x 3,5	•	
	81 x 3,5	•	
	82 x 3,5	•	
	83 x 3,5	•	
	84 x 3,5	•	
	85 x 3,5	•	
	86 x 3,5	•	
	87 x 3,5	•	
	88 x 3,5	•	
	89 x 3,5	•	
	90 x 3,5	•	
	91 x 3,5	•	
	92 x 3,5	•	
	93 x 3,5	•	
	94 x 3,5	•	
	95 x 3,5	•	
	96 x 3,5	•	
	97 x 3,5	•	

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**		(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**





Example of item code

04 353 3609 GN

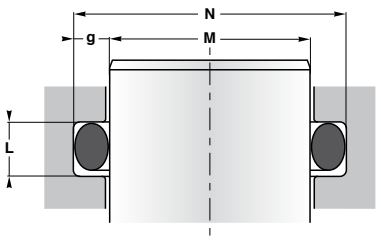
Material — Colour

d (mm) x 100 — **D** (mm) x 100

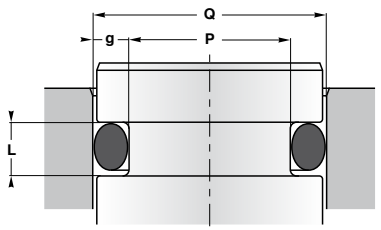
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

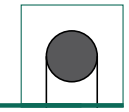
Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN	JIS
3,5	98 x 3,5	•	
	99 x 3,5	•	
	100 x 3,5	•	
	101 x 3,5	•	
	102 x 3,5	•	
	103 x 3,5	•	
	104 x 3,5	•	
	105 x 3,5	•	
	107 x 3,5	•	
	108 x 3,5	•	
	109 x 3,5	•	
	110 x 3,5	•	
	111 x 3,5	•	
	112 x 3,5	•	
	113 x 3,5	•	
	114 x 3,5	•	
	115 x 3,5	•	
	116 x 3,5	•	
	117 x 3,5	•	
	118 x 3,5	•	
	119 x 3,5	•	
	120 x 3,5	•	
	122 x 3,5	•	
	123 x 3,5	•	
	124 x 3,5	•	
	125 x 3,5	•	
	126 x 3,5	•	
	127 x 3,5	•	
	128 x 3,5	•	
	130 x 3,5	•	
	131 x 3,5	•	
	132 x 3,5	•	
	133 x 3,5	•	
	134 x 3,5	•	
	135 x 3,5	•	
	136 x 3,5	•	
	138 x 3,5	•	
	139 x 3,5	•	
	140 x 3,5	•	
	142 x 3,5	•	
	143 x 3,5	•	
	144 x 3,5	•	

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.



O-ring cross section	O-ring D x d	DIN	JIS
3,5	145 x 3,5	•	
	146 x 3,5	•	
	147 x 3,5	•	
	148 x 3,5	•	
	149 x 3,5	•	
	150 x 3,5	•	
	152 x 3,5	•	
	153 x 3,5	•	
	155 x 3,5	•	
	156 x 3,5	•	
	158 x 3,5	•	
	160 x 3,5	•	
	162 x 3,5	•	
	163 x 3,5	•	
	165 x 3,5	•	
	167 x 3,5	•	
	168 x 3,5	•	
	169 x 3,5	•	
	170 x 3,5	•	
	171 x 3,5	•	
	174 x 3,5	•	
	175 x 3,5	•	
	177 x 3,5	•	
	178 x 3,5	•	
	180 x 3,5	•	
	182 x 3,5	•	
	184 x 3,5	•	
	185 x 3,5	•	
	186 x 3,5	•	
	190 x 3,5	•	
	192 x 3,5	•	
	193 x 3,5	•	
	194 x 3,5	•	
	195 x 3,5	•	
	196 x 3,5	•	
	197 x 3,5	•	
	199 x 3,5	•	
	202 x 3,5	•	
	203 x 3,5	•	

O-ring cross section	O-ring D x d	DIN	JIS
3,5	205 x 3,5	•	
	207 x 3,5	•	
	208 x 3,5	•	
	209 x 3,5	•	
	210 x 3,5	•	
	213 x 3,5	•	
	214 x 3,5	•	
	215 x 3,5	•	
	216 x 3,5	•	
	217 x 3,5	•	
	220 x 3,5	•	
	222 x 3,5	•	
	223 x 3,5	•	
	224 x 3,5	•	
	225 x 3,5	•	
	228 x 3,5	•	
	230 x 3,5	•	
	233 x 3,5	•	
	235 x 3,5	•	
	238 x 3,5	•	
	240 x 3,5	•	
	241 x 3,5	•	
	244 x 3,5	•	
	245 x 3,5	•	
	247 x 3,5	•	
	248 x 3,5	•	
	250 x 3,5	•	
	252 x 3,5	•	
	253 x 3,5	•	
	254 x 3,5	•	
	259 x 3,5	•	
	260 x 3,5	•	
	263 x 3,5	•	
	264 x 3,5	•	
	266 x 3,5	•	
	270 x 3,5	•	
	273 x 3,5	•	
	275 x 3,5	•	
	276 x 3,5	•	

O-ring cross section	O-ring D x d	DIN	JIS
3,5	280 x 3,5	•	
	285 x 3,5	•	
	288 x 3,5	•	
	292 x 3,5	•	
	298 x 3,5	•	
	299 x 3,5	•	
	300 x 3,5	•	
	302 x 3,5	•	
	305 x 3,5	•	
	310 x 3,5	•	
	315 x 3,5	•	
	319 x 3,5	•	
	322 x 3,5	•	
	325 x 3,5	•	
	328 x 3,5	•	
	338 x 3,5	•	
	339 x 3,5	•	
	340 x 3,5	•	
	345 x 3,5	•	
	348 x 3,5	•	
	350 x 3,5	•	
	353 x 3,5	•	
	355 x 3,5	•	
	367 x 3,5	•	
	370 x 3,5	•	
	374 x 3,5	•	
	380 x 3,5	•	
	388 x 3,5	•	
	390 x 3,5	•	
	393 x 3,5	•	
	405 x 3,5	•	
	410 x 3,5	•	
	425 x 3,5	•	
	430 x 3,5	•	
	440 x 3,5	•	

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**		(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**

Example of item code

04 353 3609 GN

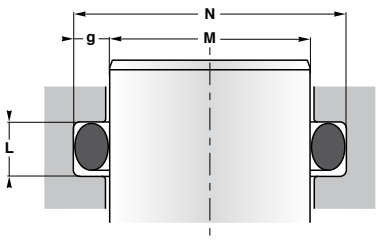
Material — Colour

d (mm) x 100 — **D** (mm) x 100

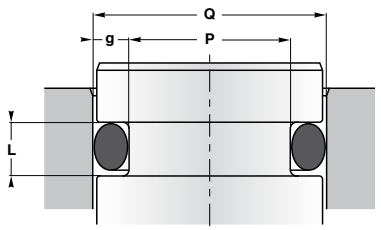
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	AS/BS	ITALY
3,53	4,34 x 3,53	201	
	5,94 x 3,53	202	
	7,52 x 3,53	203	
	9,12 x 3,53	204	
	10,69 x 3,53	205	
	12,29 x 3,53	206	
	13,87 x 3,53	207	
	15,47 x 3,53	208	
	17,04 x 3,53	209	
	18,64 x 3,53	210	4075
	20,22 x 3,53	211	4081
	21,82 x 3,53	212	4087
	23,39 x 3,53	213	4093
	24,99 x 3,53	214	4100
	25,8 x 3,53	618	.134
	26,57 x 3,53	215	4106
	28,17 x 3,53	216	4112
	29,74 x 3,53	217	4118
	31,34 x 3,53	218	4125
	32,92 x 3,53	219	4131
	34,52 x 3,53	220	4137
	36,09 x 3,53	221	4143
	37,69 x 3,53	222	4150
	39,7 x 3,53	824	.144
	40,87 x 3,53	223	4162
	41,28 x 3,53	825	.146
	42,86 x 3,53	826	.147
	44,04 x 3,53	224	4175
	44,45 x 3,53	827	.149
	46,04 x 3,53	828	.150
	47,22 x 3,53	225	4187
	47,62 x 3,53	829	.152
	49,2 x 3,53	830	.153
	50,39 x 3,53	226	4200
	50,8 x 3,53	831	.155
	52,4 x 3,53	832	.156
	53,57 x 3,53	227	4212
	53,97 x 3,53	833	.158
	55,56 x 3,53	834	.159
	56,74 x 3,53	228	4225
	57,15 x 3,53	835	.161
	58,74 x 3,53	836	.162

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring D x d	AS/BS	ITALY
3,53	59,92 x 3,53	229	4237
	60,32 x 3,53	837	.164
	61,9 x 3,53	838	.165
	63,09 x 3,53	230	4250
	63,5 x 3,53	839	.167
	65,1 x 3,53	840	.168
	66,27 x 3,53	231	4262
	66,67 x 3,53	841	.170
	68,26 x 3,53	842	.171
	69,44 x 3,53	232	4275
	69,85 x 3,53	843	.173
	71,44 x 3,53	844	.174
	72,62 x 3,53	233	4287
	73,02 x 3,53	845	.176
	74,6 x 3,53	846	.177
	75,79 x 3,53	234	4300
	78,97 x 3,53	235	4312
	82,14 x 3,53	236	4325
	85,32 x 3,53	237	4337
	88,49 x 3,53	238	4350
	91,67 x 3,53	239	4362
	94,84 x 3,53	240	4375
	98,02 x 3,53	241	4387
	101,19 x 3,53	242	4400
	104,37 x 3,53	243	4412
	107,54 x 3,53	244	4425
	110,72 x 3,53	245	4437
	113,89 x 3,53	246	4450
	117,07 x 3,53	247	4462
	120,24 x 3,53	248	4475
	123,42 x 3,53	249	4487
	126,59 x 3,53	250	4500
	129,77 x 3,53	251	4512
	132,94 x 3,53	252	4525
	136,12 x 3,53	253	4537
	139,29 x 3,53	254	4550
	142,47 x 3,53	255	4562
	145,64 x 3,53	256	4575
	148,82 x 3,53	257	4587

O-ring cross section	O-ring D x d	AS/BS	ITALY
3,53	151,99 x 3,53	258	4600
	158,34 x 3,53	259	4625
	164,69 x 3,53	260	4650
	171,04 x 3,53	261	4675
	177,39 x 3,53	262	4700
	183,74 x 3,53	263	4725
	190,09 x 3,53	264	4750
	196,44 x 3,53	265	4775
	202,79 x 3,53	266	4800
	209,14 x 3,53	267	4825
	215,49 x 3,53	268	4850
	221,84 x 3,53	269	4875
	228,19 x 3,53	270	4900
	234,54 x 3,53	271	4925
	240,89 x 3,53	272	4950
	247,26 x 3,53	273	4975
	253,59 x 3,53	274	41000
	266,29 x 3,53	275	41050
	278,99 x 3,53	276	41100
	291,69 x 3,53	277	41150
	304,39 x 3,53	278	41200
	329,79 x 3,53	279	41300
	355,19 x 3,53	280	41400
	380,59 x 3,53	281	41500
	405,26 x 3,53	282	41600
	430,66 x 3,53	283	41700
	456,06 x 3,53	284	41800

O-ring cross section	O-ring D x d	ISO/DIN	NF
3,55	18 x 3,55	•	•
	19 x 3,55	•	•
	20 x 3,55	•	•
	21,2 x 3,55	•	•
	22,4 x 3,55	•	•
	23,6 x 3,55	•	•
	25 x 3,55	•	•
	25,8 x 3,55	•	•
	26,5 x 3,55	•	
	28 x 3,55	•	•
	30 x 3,55	•	•
	31,5 x 3,55	•	•
	32,5 x 3,55	•	•
	33,5 x 3,55	•	•
	34,5 x 3,55	•	•
	35,5 x 3,55	•	•
	36,5 x 3,55	•	•
	37,5 x 3,55	•	•
	38,7 x 3,55	•	•
	40 x 3,55	•	•
	41,2 x 3,55	•	•
	42,5 x 3,55	•	•
	43,7 x 3,55	•	•
	45 x 3,55	•	•
	46,2 x 3,55	•	•
	47,5 x 3,55	•	•
	48,7 x 3,55	•	•
	50 x 3,55	•	•
	51,5 x 3,55	•	•
	53 x 3,55	•	•
	54,5 x 3,55	•	•
	56 x 3,55	•	•
	58 x 3,55	•	•
	60 x 3,55	•	•
	61,5 x 3,55	•	•
	63 x 3,55	•	•
	65 x 3,55	•	•
	67 x 3,55	•	•
	69 x 3,55	•	•

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**

Example of item code

04 353 3609 GN

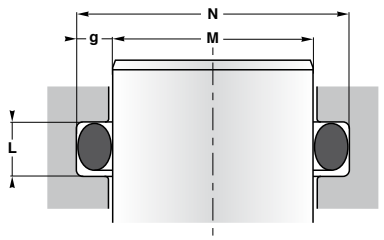
Material — Colour

d (mm) x 100 — **D** (mm) x 100

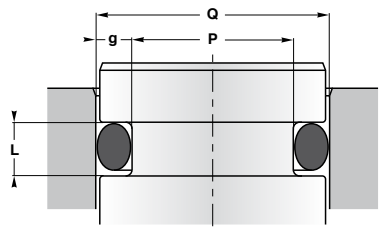
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	ISO/ DIN	NF
3,55	71 x 3,55	•	•
	73 x 3,55	•	•
	75 x 3,55	•	•
	77,5 x 3,55	•	•
	80 x 3,55	•	•
	82,5 x 3,55	•	•
	85 x 3,55	•	•
	87,5 x 3,55	•	•
	90 x 3,55	•	•
	92,5 x 3,55	•	•
	95 x 3,55	•	•
	97,5 x 3,55	•	•
	100 x 3,55	•	•
	103 x 3,55	•	•
	106 x 3,55	•	•
	109 x 3,55	•	•
	112 x 3,55	•	•
	115 x 3,55	•	•
	118 x 3,55	•	•
	122 x 3,55	•	•
	125 x 3,55	•	•
	128 x 3,55	•	•
	132 x 3,55	•	•
	136 x 3,55	•	•
	140 x 3,55	•	•
	145 x 3,55	•	•
	150 x 3,55	•	•
	155 x 3,55	•	•
	160 x 3,55	•	•
	165 x 3,55	•	•
	170 x 3,55	•	•
	175 x 3,55	•	•
	180 x 3,55	•	•
	185 x 3,55	•	•
	190 x 3,55	•	•
	195 x 3,55	•	•
	200 x 3,55	•	•

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring D x d	R
3,6	18,3 x 3,6	R15
	19,8 x 3,6	R16
	21,3 x 3,6	R17
	23 x 3,6	R18
	24,6 x 3,6	R19
	26,2 x 3,6	R20
	27,8 x 3,6	R21
	29,3 x 3,6	R22
	30,8 x 3,6	R23
	32,5 x 3,6	R24
	34,1 x 3,6	R25
	35,6 x 3,6	R26
	37,3 x 3,6	R27
	43,6 x 3,6	R29t

O-ring cross section	O-ring D x d	DIN
4	4 x 4	•
	5 x 4	•
	6 x 4	•
	7 x 4	•
	8 x 4	•
	9 x 4	•
	10 x 4	•
	11 x 4	•
	12 x 4	•
	13 x 4	•
	14 x 4	•
	15 x 4	•
	16 x 4	•
	17 x 4	•
	18 x 4	•
	19 x 4	•
	20 x 4	•
	21 x 4	•
	22 x 4	•
	23 x 4	•
	24 x 4	•
	25 x 4	•
	26 x 4	•
	27 x 4	•
	28 x 4	•
	29 x 4	•
	30 x 4	•
	31 x 4	•
	32 x 4	•
	33 x 4	•
	34 x 4	•
	35 x 4	•
	36 x 4	•
	37 x 4	•
	38 x 4	•
	39 x 4	•
	40 x 4	•
	41 x 4	•
	42 x 4	•

O-ring cross section	O-ring D x d	DIN
4	43 x 4	•
	44 x 4	•
	45 x 4	•
	46 x 4	•
	47 x 4	•
	48 x 4	•
	49 x 4	•
	50 x 4	•
	51 x 4	•
	52 x 4	•
	53 x 4	•
	54 x 4	•
	55 x 4	•
	56 x 4	•
	57 x 4	•
	58 x 4	•
	59 x 4	•
	60 x 4	•
	61 x 4	•
	62 x 4	•
	63 x 4	•
	64 x 4	•
	65 x 4	•
	66 x 4	•
	67 x 4	•
	68 x 4	•
	69 x 4	•
	70 x 4	•
	71 x 4	•
	72 x 4	•
	73 x 4	•
	74 x 4	•
	75 x 4	•
	76 x 4	•
	77 x 4	•
	78 x 4	•
	79 x 4	•
	80 x 4	•
	81 x 4	•

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**		(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586	(S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401	(J)	**ITALY**		(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**

Example of item code

04 353 3609 GN

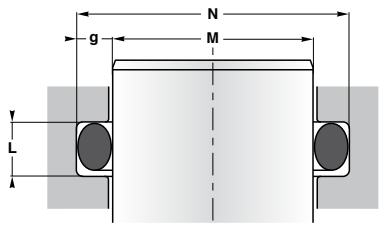
Material — Colour

d (mm) x 100 — **D** (mm) x 100

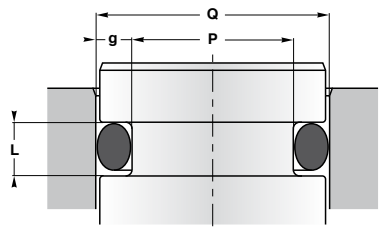
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN
4	82 x 4	•
	83 x 4	•
	84 x 4	•
	85 x 4	•
	86 x 4	•
	87 x 4	•
	88 x 4	•
	89 x 4	•
	90 x 4	•
	91 x 4	•
	92 x 4	•
	93 x 4	•
	94 x 4	•
	95 x 4	•
	96 x 4	•
	97 x 4	•
	98 x 4	•
	99 x 4	•
	100 x 4	•
	101 x 4	•
	102 x 4	•
	103 x 4	•
	104 x 4	•
	105 x 4	•
	106 x 4	•
	107 x 4	•
	108 x 4	•
	109 x 4	•
	110 x 4	•
	111 x 4	
	112 x 4	•
	113 x 4	•
	114 x 4	•
	115 x 4	•
	116 x 4	•
	117 x 4	•
	118 x 4	•
	119 x 4	•
	120 x 4	•

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring D x d	DIN
4	121 x 4	
	122 x 4	•
	123 x 4	•
	124 x 4	•
	125 x 4	•
	126 x 4	•
	127 x 4	•
	128 x 4	•
	129 x 4	•
	130 x 4	•
	131 x 4	•
	132 x 4	•
	133 x 4	•
	134 x 4	•
	135 x 4	•
	136 x 4	•
	137 x 4	•
	138 x 4	•
	139 x 4	•
	140 x 4	•
	141 x 4	
	142 x 4	•
	143 x 4	
	144 x 4	•
	145 x 4	•
	146 x 4	•
	147 x 4	•
	148 x 4	•
	149 x 4	
	150 x 4	•
	151 x 4	
	152 x 4	•
	153 x 4	•
	154 x 4	•
	155 x 4	•
	156 x 4	•
	157 x 4	•
	158 x 4	•
	159 x 4	•

O-ring cross section	O-ring D x d	DIN
4	160 x 4	•
	162 x 4	•
	164 x 4	•
	165 x 4	•
	166 x 4	•
	167 x 4	•
	168 x 4	•
	170 x 4	•
	172 x 4	
	173 x 4	•
	174 x 4	•
	175 x 4	•
	177 x 4	•
	178 x 4	•
	179 x 4	•
	180 x 4	•
	182 x 4	•
	183 x 4	•
	184 x 4	•
	185 x 4	•
	186 x 4	•
	187 x 4	•
	188 x 4	•
	190 x 4	•
	192 x 4	•
	194 x 4	•
	195 x 4	•
	196 x 4	•
	197 x 4	•
	198 x 4	•
	199 x 4	•
	200 x 4	•
	202 x 4	•
	203 x 4	•
	204 x 4	•
	205 x 4	•
	206 x 4	•
	208 x 4	•
	210 x 4	•

O-ring cross section	O-ring D x d	DIN
4	211 x 4	•
	212 x 4	•
	214 x 4	•
	215 x 4	•
	216 x 4	•
	217 x 4	•
	218 x 4	•
	220 x 4	•
	222 x 4	•
	225 x 4	•
	226 x 4	•
	228 x 4	•
	230 x 4	•
	232 x 4	•
	234 x 4	•
	235 x 4	•
	237 x 4	•
	238 x 4	•
	240 x 4	•
	242 x 4	•
	243 x 4	•
	244 x 4	•
	245 x 4	•
	246 x 4	•
	250 x 4	•
	252 x 4	•
	255 x 4	•
	256 x 4	•
	258 x 4	•
	260 x 4	•
	262 x 4	•
	264 x 4	•
	265 x 4	•
	268 x 4	•
	270 x 4	•
	272 x 4	•
	273 x 4	•
	274 x 4	•
	275 x 4	•

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**		(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586	(S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401	(J)	**ITALY**		(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**

Example of item code

04 353 3609 GN

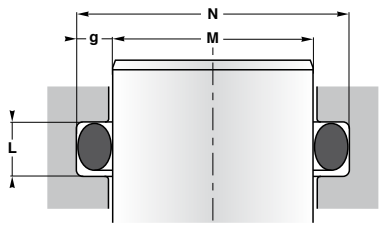
Material — Colour

d (mm) x 100 — **D** (mm) x 100

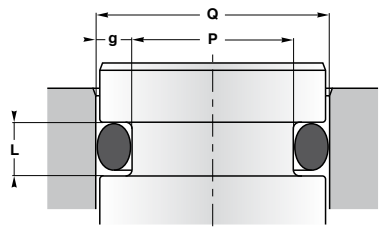
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN
4	276 x 4	•
	278 x 4	•
	280 x 4	•
	282 x 4	•
	284 x 4	•
	285 x 4	•
	286 x 4	•
	287 x 4	•
	290 x 4	•
	292 x 4	•
	294 x 4	•
	295 x 4	•
	297 x 4	•
	300 x 4	•
	305 x 4	•
	310 x 4	•
	315 x 4	•
	320 x 4	•
	325 x 4	•
	330 x 4	•
	335 x 4	•
	340 x 4	•
	345 x 4	•
	350 x 4	•
	355 x 4	•
	360 x 4	•
	365 x 4	•
	370 x 4	•
	375 x 4	•
	380 x 4	•
	385 x 4	•
	390 x 4	•
	395 x 4	•
	400 x 4	•
	405 x 4	
	410 x 4	•
	415 x 4	
	420 x 4	•
	425 x 4	•

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

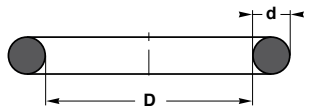
O-ring cross section	O-ring D x d	DIN
4	430 x 4	•
	435 x 4	•
	440 x 4	•
	445 x 4	•
	450 x 4	•
	455 x 4	•
	460 x 4	•
	465 x 4	•
	470 x 4	•
	475 x 4	•
	480 x 4	•
	485 x 4	•
	490 x 4	•
	495 x 4	•
	500 x 4	•

O-ring cross section	O-ring D x d	BS met
4,1	29,4 x 4,1	0294-41
	31,4 x 4,1	0314-41
	32,4 x 4,1	0324-41
	34,4 x 4,1	0344-41
	35,4 x 4,1	0354-41
	36,4 x 4,1	0364-41
	37,4 x 4,1	0374-41
	39,4 x 4,1	0394-41
	41,4 x 4,1	0414-41
	42,4 x 4,1	0424-41
	44,4 x 4,1	0444-41
	45,4 x 4,1	0454-41
	49,4 x 4,1	0494-41
	52,4 x 4,1	0524-41
	54,4 x 4,1	0544-41
	55,4 x 4,1	0554-41
	59,4 x 4,1	0594-41
	62,4 x 4,1	0624-41
	64,4 x 4,1	0644-41
	69,4 x 4,1	0694-41
	72,4 x 4,1	0724-41
	74,4 x 4,1	0744-41
	79,4 x 4,1	0794-41
	84,4 x 4,1	0844-41
	89,4 x 4,1	0894-41
	92,4 x 4,1	0924-41
	94,4 x 4,1	0944-41
	100 x 4,1	0994-41
	104,4 x 4,1	1044-41
	109,4 x 4,1	1094-41
	114,4 x 4,1	1144-41
	117,4 x 4,1	1174-41
	119,4 x 4,1	1194-41
	124,4 x 4,1	1244-41
	129,4 x 4,1	1294-41
	134,4 x 4,1	1344-41
	139,4 x 4,1	1394-41
	144,4 x 4,1	1444-41
	149,4 x 4,1	1494-41

O-ring cross section	O-ring D x d	BS met
4,1	152,4 x 4,1	1524-41
	154,4 x 4,1	1544-41
	159,4 x 4,1	1594-41
	164,4 x 4,1	1644-41
	169,4 x 4,1	1694-41
	174,4 x 4,1	1744-41
	179,4 x 4,1	1794-41
	184,4 x 4,1	1844-41
	189,4 x 4,1	1894-41
	192,4 x 4,1	1924-41
	194,4 x 4,1	1944-41
	199,4 x 4,1	1994-41
	209,4 x 4,1	2094-41
	212,4 x 4,1	2124-41
	219,4 x 4,1	2194-41
	229,4 x 4,1	2294-41
	239,4 x 4,1	2394-41
	242,4 x 4,1	2424-41
	249,4 x 4,1	2494-41
	259,4 x 4,1	2594-41
	269,4 x 4,1	2694-41
	272,4 x 4,1	2724-41
	279,4 x 4,1	2794-41
	289,4 x 4,1	2894-41
	299,4 x 4,1	2994-41

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**		(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**



Example of item code

04 353 3609 GN

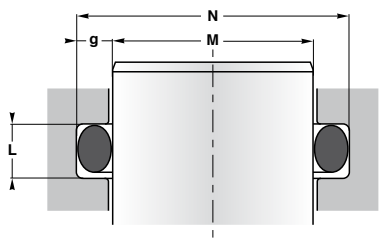
Material — Colour

d (mm) x 100 — **D** (mm) x 100

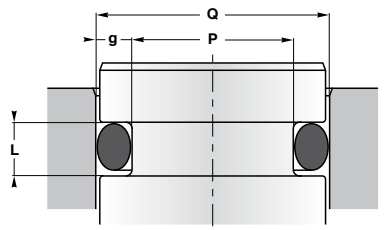
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN
4,5	6 x 4,5	•
	8 x 4,5	•
	9 x 4,5	•
	9,5 x 4,5	•
	10 x 4,5	•
	10,5 x 4,5	•
	11 x 4,5	•
	12 x 4,5	•
	13 x 4,5	•
	15 x 4,5	•
	15,5 x 4,5	•
	16 x 4,5	•
	17 x 4,5	•
	18 x 4,5	•
	19 x 4,5	•
	20 x 4,5	•
	21 x 4,5	•
	21,5 x 4,5	•
	22 x 4,5	•
	22,5 x 4,5	•
	23 x 4,5	•
	24 x 4,5	•
	24,5 x 4,5	•
	25 x 4,5	•
	26 x 4,5	•
	27 x 4,5	•
	27,5 x 4,5	•
	28 x 4,5	•
	28,5 x 4,5	•
	29 x 4,5	•
	29,5 x 4,5	•
	30 x 4,5	•
	31 x 4,5	•
	31,5 x 4,5	•
	32 x 4,5	•
	34 x 4,5	•
	34,5 x 4,5	•
	35 x 4,5	•
	35,5 x 4,5	•

O-ring cross section	O-ring D x d	DIN
4,5	36 x 4,5	•
	37 x 4,5	•
	37,5 x 4,5	•
	38 x 4,5	•
	39 x 4,5	•
	40 x 4,5	•
	40,5 x 4,5	•
	41 x 4,5	•
	42 x 4,5	•
	43 x 4,5	•
	44 x 4,5	•
	45 x 4,5	•
	46 x 4,5	•
	47 x 4,5	•
	48 x 4,5	•
	49 x 4,5	•
	50 x 4,5	•
	51 x 4,5	•
	53 x 4,5	•
	56 x 4,5	•
	57 x 4,5	•
	60 x 4,5	•
	61 x 4,5	•
	63 x 4,5	•
	64 x 4,5	•
	65 x 4,5	•
	66 x 4,5	•
	68 x 4,5	•
	69 x 4,5	•
	70 x 4,5	•
	71 x 4,5	•
	73 x 4,5	•
	74 x 4,5	•
	75 x 4,5	•
	76 x 4,5	•
	80 x 4,5	•
	81 x 4,5	•
	83 x 4,5	•
	85 x 4,5	•

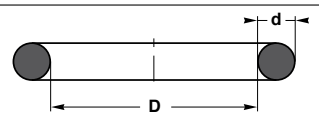
O-ring cross section	O-ring D x d	DIN
4,5	86 x 4,5	•
	89 x 4,5	•
	90 x 4,5	•
	92 x 4,5	•
	95 x 4,5	•
	97,5 x 4,5	•
	98 x 4,5	•
	100 x 4,5	•
	100,5 x 4,5	•
	101 x 4,5	•
	103,5 x 4,5	•
	105 x 4,5	•
	106 x 4,5	•
	110 x 4,5	•
	115 x 4,5	•
	118 x 4,5	•
	120 x 4,5	•
	122 x 4,5	•
	124 x 4,5	•
	126 x 4,5	•
	130 x 4,5	•
	131,5 x 4,5	•
	134,5 x 4,5	•
	140 x 4,5	•
	145 x 4,5	
	150 x 4,5	•
	153 x 4,5	•
	155 x 4,5	•
	157 x 4,5	•
	160 x 4,5	•
	165 x 4,5	•
	172 x 4,5	•
	178 x 4,5	•
	180 x 4,5	•
	185 x 4,5	•
	189,5 x 4,5	•
	192 x 4,5	•
	200 x 4,5	
	208 x 4,5	•

O-ring cross section	O-ring D x d	DIN
4,5	215 x 4,5	•
	218,5 x 4,5	•
	225 x 4,5	•
	227 x 4,5	•
	250 x 4,5	•
	267 x 4,5	•
	280 x 4,5	•
	300 x 4,5	
	315 x 4,5	•

ISO/DIN	ISO 3601/DIN 3771	EU D	**R**		F	**NF**	NF T 47-501 F
DIN	DIN 3770	D	**SMS**	SMS 1586	S	**BS met**	BS 4518 GB
AS/BS	AS 568A / BS 1806	USA GB	**JIS**	JIS B 2401	J	**ITALY**	I

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**



Example of item code

04 353 3609 GN

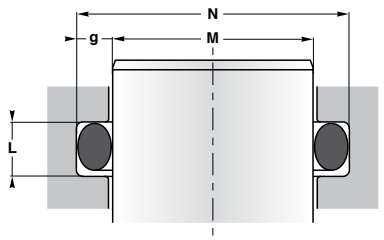
Material — Colour

d (mm) x 100 — **D** (mm) x 100

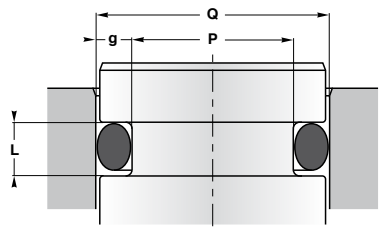
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN
5	4 x 5	•
	5 x 5	•
	6 x 5	•
	7 x 5	•
	8 x 5	•
	9 x 5	•
	10 x 5	•
	11 x 5	•
	12 x 5	•
	13 x 5	•
	14 x 5	•
	15 x 5	•
	16 x 5	•
	17 x 5	•
	18 x 5	•
	19 x 5	•
	20 x 5	•
	21 x 5	•
	22 x 5	•
	23 x 5	•
	24 x 5	•
	25 x 5	•
	26 x 5	•
	27 x 5	•
	28 x 5	•
	29 x 5	•
	30 x 5	•
	31 x 5	•
	32 x 5	•
	33 x 5	•
	34 x 5	•
	35 x 5	•
	36 x 5	•
	37 x 5	•
	38 x 5	•
	39 x 5	•
	40 x 5	•
	41 x 5	•
	42 x 5	•
5	43 x 5	•
	44 x 5	•
	45 x 5	•
	46 x 5	•
	47 x 5	•
	48 x 5	•
	49 x 5	•
	50 x 5	•
	51 x 5	•
	52 x 5	•
	53 x 5	•
	54 x 5	•
	55 x 5	•
	56 x 5	•
	57 x 5	•
	58 x 5	•
	59 x 5	•
	60 x 5	•
	61 x 5	•
	62 x 5	•
	63 x 5	•
	64 x 5	•
	65 x 5	•
	66 x 5	•
	67 x 5	•
	68 x 5	•
	69 x 5	•
	70 x 5	•
	71 x 5	•
	72 x 5	•
	73 x 5	•
	74 x 5	•
	75 x 5	•
	76 x 5	•
	77 x 5	•
	78 x 5	•
	79 x 5	•
	80 x 5	•
	81 x 5	•
5	82 x 5	•
	83 x 5	•
	84 x 5	•
	85 x 5	•
	86 x 5	•
	87 x 5	•
	88 x 5	•
	89 x 5	•
	90 x 5	•
	91 x 5	•
	92 x 5	•
	93 x 5	•
	94 x 5	•
	95 x 5	•
	96 x 5	•
	97 x 5	•
	98 x 5	•
	99 x 5	•
	100 x 5	•
	101 x 5	•
	102 x 5	•
	103 x 5	•
	104 x 5	•
	105 x 5	•
	106 x 5	•
	107 x 5	•
	108 x 5	•
	109 x 5	•
	110 x 5	•
	111 x 5	•
	112 x 5	•
	113 x 5	•
	114 x 5	•
	115 x 5	•
	116 x 5	•
	117 x 5	•
	118 x 5	•
	120 x 5	•
	122 x 5	•
5	123 x 5	•
	124 x 5	•
	125 x 5	•
	126 x 5	•
	127 x 5	•
	128 x 5	•
	130 x 5	•
	132 x 5	•
	133 x 5	•
	134 x 5	•
	135 x 5	•
	136 x 5	•
	137 x 5	•
	138 x 5	•
	140 x 5	•
	142 x 5	•
	143 x 5	•
	144 x 5	•
	145 x 5	•
	146 x 5	•
	147 x 5	•
	148 x 5	•
	149 x 5	•
	150 x 5	•
	152 x 5	•
	153 x 5	
	154 x 5	•
	155 x 5	•
	156 x 5	•
	157 x 5	•
	158 x 5	•
	159 x 5	•
	160 x 5	•
	162 x 5	•
	163 x 5	•
	164 x 5	•
	165 x 5	•
	167 x 5	•
	168 x 5	•

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**		(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586	(S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401	(J)	**ITALY**		(I)

Example of item code

04 353 3609 GN

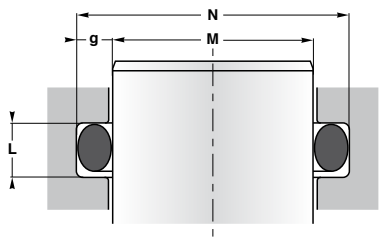
Material — Colour

d (mm) x 100 — **D** (mm) x 100

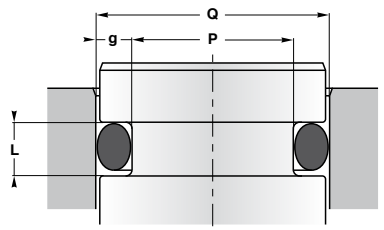
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN
5	170 x 5	•
	172 x 5	•
	173 x 5	•
	174 x 5	•
	175 x 5	•
	176 x 5	•
	177 x 5	•
	178 x 5	•
	180 x 5	•
	182 x 5	•
	184 x 5	•
	185 x 5	•
	186 x 5	•
	187 x 5	•
	188 x 5	•
	190 x 5	•
	192 x 5	•
	193 x 5	•
	194 x 5	•
	195 x 5	•
	198 x 5	•
	200 x 5	•
	203 x 5	•
	204 x 5	•
	205 x 5	•
	208 x 5	•
	210 x 5	•
	212 x 5	•
	214 x 5	•
	215 x 5	•
	216 x 5	•
	217 x 5	•
	220 x 5	•
	221 x 5	•
	222 x 5	•
	225 x 5	•
	226 x 5	
	227 x 5	•
	228 x 5	•

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring D x d	DIN
5	230 x 5	•
	232 x 5	•
	234 x 5	•
	235 x 5	•
	238 x 5	•
	240 x 5	•
	242 x 5	•
	245 x 5	•
	246 x 5	•
	247 x 5	•
	248 x 5	•
	250 x 5	•
	252 x 5	•
	253 x 5	•
	255 x 5	•
	257 x 5	•
	260 x 5	•
	262 x 5	•
	263 x 5	
	265 x 5	•
	266 x 5	•
	270 x 5	•
	275 x 5	•
	278 x 5	•
	280 x 5	•
	281 x 5	•
	282 x 5	•
	284 x 5	•
	285 x 5	•
	288 x 5	•
	290 x 5	•
	293 x 5	•
	294 x 5	•
	295 x 5	•
	300 x 5	•
	302 x 5	•
	304 x 5	•
	305 x 5	•
	310 x 5	•

O-ring cross section	O-ring D x d	DIN
5	312 x 5	•
	315 x 5	•
	320 x 5	•
	325 x 5	•
	328 x 5	•
	330 x 5	•
	335 x 5	•
	338 x 5	•
	340 x 5	•
	342 x 5	•
	343 x 5	•
	345 x 5	•
	346 x 5	•
	347 x 5	•
	350 x 5	•
	352 x 5	•
	355 x 5	•
	360 x 5	•
	365 x 5	•
	368 x 5	•
	370 x 5	•
	372 x 5	•
	375 x 5	•
	380 x 5	•
	385 x 5	•
	390 x 5	•
	395 x 5	•
	400 x 5	•
	410 x 5	•
	415 x 5	•
	420 x 5	•
	425 x 5	•
	430 x 5	•
	435 x 5	•
	440 x 5	•
	445 x 5	•
	450 x 5	•
	455 x 5	•
	460 x 5	•

O-ring cross section	O-ring D x d	DIN
5	465 x 5	•
	475 x 5	•
	480 x 5	•
	485 x 5	•
	490 x 5	•
	495 x 5	•
	500 x 5	•
	510 x 5	•
	520 x 5	•
	525 x 5	•
	540 x 5	•
	550 x 5	•
	560 x 5	•
	570 x 5	•
	580 x 5	•
	590 x 5	•
	600 x 5	•

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**		(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586	(S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401	(J)	**ITALY**		(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**

Example of item code

04 353 3609 GN

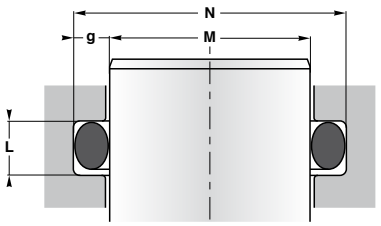
Material — Colour

d (mm) x 100 — **D** (mm) x 100

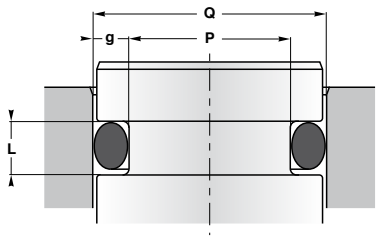
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	ISO/ DIN	R	NF
5,3	40 x 5,3	•		•
	41,2 x 5,3	•		•
	41,4 x 5,3		R29b	
	42,5 x 5,3	•		•
	43,7 x 5,3	•		•
	45 x 5,3	•		•
	46,2 x 5,3	•		•
	47,5 x 5,3	•		•
	48,7 x 5,3	•		•
	50 x 5,3	•		•
	51,5 x 5,3	•		•
	53 x 5,3	•		•
	54,4 x 5,3		R33b	
	54,5 x 5,3	•		•
	56 x 5,3	•		•
	58 x 5,3	•		•
	60 x 5,3	•		•
	61,5 x 5,3	•		•
	63 x 5,3	•		•
	65 x 5,3	•		•
	67 x 5,3	•		•
	69 x 5,3	•		•
	71 x 5,3	•		•
	73 x 5,3	•		•
	75 x 5,3	•		•
	77,5 x 5,3	•		•
	80 x 5,3	•		•
	82,5 x 5,3	•		•
	85 x 5,3	•		•
	87,5 x 5,3	•		•
	90 x 5,3	•		•
	92,5 x 5,3	•		•
	95 x 5,3	•		•
	97,5 x 5,3	•		•
	100 x 5,3	•		•
	103 x 5,3	•		•
	106 x 5,3	•		•
	109 x 5,3	•		
	112 x 5,3	•		•
	115 x 5,3	•		•
	118 x 5,3	•		•
	122 x 5,3	•		•

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring D x d	ISO/ DIN	R	NF
5,3	125 x 5,3	•		•
	128 x 5,3	•		•
	132 x 5,3	•		•
	136 x 5,3	•		•
	140 x 5,3	•		•
	145 x 5,3	•		•
	150 x 5,3	•		•
	155 x 5,3	•		•
	160 x 5,3	•		•
	165 x 5,3	•		•
	170 x 5,3	•		•
	175 x 5,3	•		•
	180 x 5,3	•		•
	185 x 5,3	•		•
	190 x 5,3	•		•
	195 x 5,3	•		•
	200 x 5,3	•		•
	206 x 5,3	•		•
	212 x 5,3	•		•
	218 x 5,3	•		•
	224 x 5,3	•		•
	230 x 5,3	•		•
	236 x 5,3	•		•
	243 x 5,3	•		•
	250 x 5,3	•		
	258 x 5,3	•		•
	265 x 5,3	•		•
	272 x 5,3	•		•
	280 x 5,3	•		•
	290 x 5,3	•		•
	300 x 5,3	•		•
	307 x 5,3	•		•
	315 x 5,3	•		•
	325 x 5,3	•		•
	335 x 5,3	•		•
	345 x 5,3	•		•
	355 x 5,3	•		•
	365 x 5,3	•		•
	375 x 5,3	•		•

O-ring cross section	O-ring D x d	ISO/ DIN	R	NF
5,3	387 x 5,3	•		•
	400 x 5,3	•		•

O-ring cross section	O-ring D x d	AS/BS	R	ITALY
5,34	10,46 x 5,34	309		
	12,07 x 5,34	310		
	13,64 x 5,34	311		
	15,24 x 5,34	312		
	16,81 x 5,34	313		
	18,42 x 5,34	314		
	19,99 x 5,34	315		
	21,59 x 5,34	316		
	23,16 x 5,34	317		
	24,77 x 5,34	318		
	26,34 x 5,34	319		
	27,93 x 5,34	320		
	29,51 x 5,34	321		
	31,12 x 5,34	322		
	32,69 x 5,34	323		
	34,29 x 5,34	324		
	37,47 x 5,34	325	R28	
	40,64 x 5,34	326	R29	
	43,82 x 5,34	327	R30	
	46,99 x 5,34	328	R31	
	50,17 x 5,34	329	R32	
	53,34 x 5,34	330	R33	
	56,52 x 5,34	331	R34	
	59,69 x 5,34	332	R35	
	62,87 x 5,34	333	R36	
	66,04 x 5,34	334	R37	
	69,22 x 5,34	335	R38	
	72,39 x 5,34	336	R39	
	74,63 x 5,34	619		.178
	75,57 x 5,34	337	R40	
	78,74 x 5,34	338	R41	
	79,73 x 5,34	620		.181
	81,92 x 5,34	339	R42	

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**

Example of item code

04 353 3609 GN

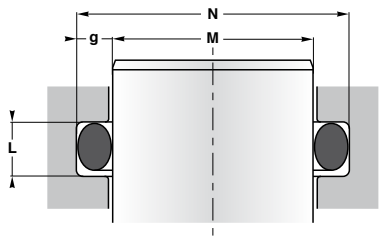
Material — Colour

d (mm) x 100 — **D** (mm) x 100

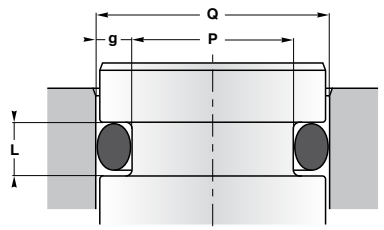
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	AS/BS	R	ITALY
5,34	85,09 x 5,34	340	R43	
	88,27 x 5,34	341	R44	
	89,69 x 5,34	621		.185
	91,44 x 5,34	342	R45	
	94,62 x 5,34	343	R46	
	97,79 x 5,34	344	R47	
	100 x 5,34	622		.189
	100,97 x 5,34	345	R48	
	104,14 x 5,34	346	R49	
	107,32 x 5,34	347	R50	
	109,54 x 5,34	623		.193
	110,49 x 5,34	348	R51	
	113,67 x 5,34	349	R52	
	116,84 x 5,34	350		
	117,48 x 5,34	860		.199
	120,02 x 5,34	351		
	120,65 x 5,34	861		.201
	123,19 x 5,34	352		
	123,2 x 5,34			
	123,83 x 5,34	862		.203
	126,37 x 5,34	353		
	127 x 5,34	863		.206
	129,54 x 5,34	354		
	130,18 x 5,34	864		.208
	132,72 x 5,34	355		
	133,35 x 5,34	865		.210
	135,89 x 5,34	356		
	136,53 x 5,34	866		.213
	139,07 x 5,34	357		
	139,7 x 5,34	867		.215
	142,24 x 5,34	358		
	142,88 x 5,34	868		.217
	145,42 x 5,34	359		
	146,05 x 5,34	869		.219
	148,59 x 5,34	360		
	149,23 x 5,34	870		.221
	151,77 x 5,34	361		
	155 x 5,34	644		
	158,12 x 5,34	362		
	161,3 x 5,34	645		
	164,47 x 5,34	363		
	167,7 x 5,34	646		

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring D x d	AS/BS	R	ITALY
5,34	170,82 x 5,34	364		
	174 x 5,34	647		
	177,17 x 5,34	365		
	183,52 x 5,34	366		
	189,87 x 5,34	367		
	196,22 x 5,34	368		
	202,57 x 5,34	369		
	208,92 x 5,34	370		
	215,27 x 5,34	371		
	221,62 x 5,34	372		
	227,97 x 5,34	373		
	234,32 x 5,34	374		
	240,67 x 5,34	375		
	247,02 x 5,34	376		
	253,37 x 5,34	377		
	266,07 x 5,34	378		
	278,77 x 5,34	379		
	285 x 5,34			
	291,47 x 5,34	380		
	304,17 x 5,34	381		
	329,57 x 5,34	382		
	354,97 x 5,34	383		
	340 x 5,34			
	366,34 x 5,34			
	380,37 x 5,34	384		
	405,26 x 5,34	385		
	430,66 x 5,34	386		
	456,06 x 5,34	387		
	481,41 x 5,34	388		
	506,81 x 5,34	389		
	532,21 x 5,34	390		
	557,61 x 5,34	391		
	582,68 x 5,34	392		
	608,08 x 5,34	393		
	633,48 x 5,34	394		
	658,88 x 5,34	395		

O-ring cross section	O-ring D x d	DIN	SMS	JIS	BS met
5,7	35,2 x 5,7		•		
	36,2 x 5,7		•		
	37,2 x 5,7		•		
	39,2 x 5,7		•		
	41,2 x 5,7		•		
	44,2 x 5,7		•		
	44,3 x 5,7				0443-57
	45,2 x 5,7		•		
	45,3 x 5,7				0453-57
	47,2 x 5,7		•		
	47,6 x 5,7			P48A	
	49,2 x 5,7		•		
	49,3 x 5,7				0493-57
	49,6 x 5,7			P50A	
	51,2 x 5,7		•		
	51,6 x 5,7			P52	
	52,2 x 5,7		•		
	52,3 x 5,7				0523-57
	52,5 x 5,7	•			
	52,6 x 5,7			P53	
	54,2 x 5,7		•		
	54,3 x 5,7				0543-57
	54,6 x 5,7			P55	
	55,3 x 5,7				0553-57
	55,6 x 5,7			P56	
	57,2 x 5,7		•		
	57,6 x 5,7			P58	
	59,2 x 5,7		•		
	59,3 x 5,7				0593-57
	59,6 x 5,7			P60	
	59,7 x 5,7	•			
	61,2 x 5,7		•		
	61,6 x 5,7			P62	
	62 x 5,7	•			
	62,2 x 5,7		•		
	62,3 x 5,7				0623-57
	62,6 x 5,7			P63	
	64 x 5,7	•			
	64,2 x 5,7		•		

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**

Example of item code

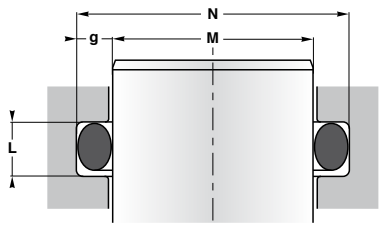
04 353 3609 GN

Material — Colour
d (mm) x 100 — **D** (mm) x 100

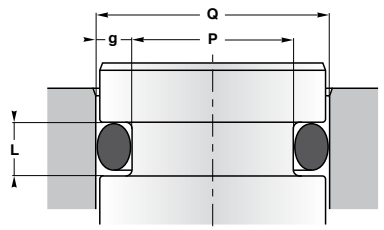
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN	SMS	JIS	BS met
5,7	64,3 x 5,7				0643-57
	64,6 x 5,7			P65	
	66,6 x 5,7			P67	
	67,2 x 5,7		•		
	69 x 5,7	•			
	69,2 x 5,7		•		
	69,3 x 5,7				0693-57
	69,6 x 5,7			P70	
	70,6 x 5,7			P71	
	71,2 x 5,7		•		
	72,2 x 5,7		•		
	74 x 5,7	•			
	74,2 x 5,7		•		
	74,3 x 5,7				0743-57
	74,6 x 5,7			P75	
	77,2 x 5,7		•		
	79 x 5,7	•			
	79,2 x 5,7		•		
	79,3 x 5,7				0793-57
	79,6 x 5,7			P80	
	81,2 x 5,7		•		
	82,2 x 5,7		•		
	84 x 5,7	•			
	84,1 x 5,7				
	84,2 x 5,7		•		
	84,3 x 5,7				0843-57
	84,6 x 5,7			P85	
	87,2 x 5,7		•		
	89 x 5,7	•			
	89,1 x 5,7				
	89,2 x 5,7		•		
	89,3 x 5,7				0893-57
	89,6 x 5,7			P90	
	92,2 x 5,7		•		
	94 x 5,7	•			
	94,1 x 5,7				
	94,2 x 5,7		•		
	94,3 x 5,7				0943-57
	94,6 x 5,7			P95	
	97,2 x 5,7		•		
	99 x 5,7	•			
	99,1 x 5,7				
	99,2 x 5,7		•		
	99,3 x 5,7				0993-57
	99,6 x 5,7			P100	
	101,6 x 5,7			P102	
	104 x 5,7	•			
	104,1 x 5,7				
	104,2 x 5,7		•		
	104,3 x 5,7				1043-57
	104,6 x 5,7			P105	
	109 x 5,7	•			
	109,1 x 5,7				
	109,2 x 5,7		•		
	109,3 x 5,7				1093-57
	109,6 x 5,7			P110	
	111,6 x 5,7			P112	
	114 x 5,7	•			
	114,2 x 5,7		•		
	114,3 x 5,7				1143-57
	114,6 x 5,7			P115	
	119 x 5,7	•			
	119,2 x 5,7		•		
	119,3 x 5,7				1193-57
	119,6 x 5,7			P120	
	124 x 5,7	•			
	124,2 x 5,7		•		
	124,3 x 5,7				1243-57
	124,6 x 5,7			P125	
	129,2 x 5,7		•		
	129,3 x 5,7				1293-57
	129,6 x 5,7			P130	
	131,6 x 5,7			P132	
	134,2 x 5,7		•		
	134,3 x 5,7				1343-57
	135,6 x 5,7			P135	
	139,2 x 5,7		•		
	139,3 x 5,7				1393-57
	139,6 x 5,7			P140	
	144,2 x 5,7		•		
	144,3 x 5,7				1443-57
	144,6 x 5,7				P145
	149,2 x 5,7		•		
	149,3 x 5,7				G150 1493-57
	149,6 x 5,7				P150
	154,2 x 5,7		•		
	154,3 x 5,7				G155 1543-57
	159,2 x 5,7		•		
	159,3 x 5,7				G160/S 1593-57
	164,2 x 5,7		•		
	164,3 x 5,7				G165/S 1643-57
	169,2 x 5,7		•		
	169,3 x 5,7				G170/S 1693-57
	174,2 x 5,7		•		
	174,3 x 5,7				G175/S 1743-57
	179,2 x 5,7		•		
	179,3 x 5,7				G180/S 1793-57
	184,2 x 5,7		•		
	184,3 x 5,7				G185/S 1843-57
	189,2 x 5,7		•		
	189,3 x 5,7				G190/S 1893-57
	194,2 x 5,7		•		
	194,3 x 5,7				G195/S 1943-57
	199,2 x 5,7		•		
	199,3 x 5,7				G200/S 1993-57
	204,2 x 5,7		•		
	209,2 x 5,7		•		
	209,3 x 5,7				G210/S 2093-57
	219,2 x 5,7		•		
	219,3 x 5,7				G220/S 2193-57
	229,2 x 5,7		•		
	229,3 x 5,7				G230/S 2293-57
	239,2 x 5,7		•		
	239,3 x 5,7				G240/S 2393-57
	249,2 x 5,7		•		
	249,3 x 5,7				G250/S 2493-57
	259,2 x 5,7		•		
	259,3 x 5,7				G260/S 2593-57
	269,2 x 5,7		•		
	269,3 x 5,7				G270/S 2693-57

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)

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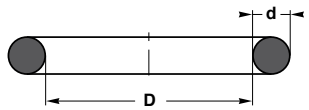


Example of item code

04 353 3609 GN

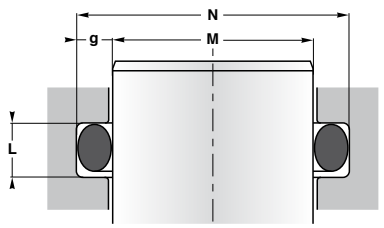
Material — Colour

d (mm) x 100 — **D** (mm) x 100

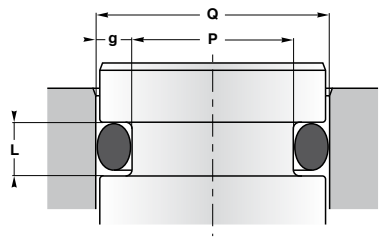
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

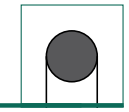
Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN	SMS	JIS	BS met
5,7	279,2 x 5,7		•		
	279,3 x 5,7			G280/S	2793-57
	289,2 x 5,7		•		
	289,3 x 5,7			G290/S	2893-57
	299,2 x 5,7		•		
	299,3 x 5,7			G300/S	2993-57
	319,2 x 5,7		•		
	319,3 x 5,7				3193-57
	329,3 x 5,7				
	339,2 x 5,7		•		
	339,3 x 5,7				3393-57
	359,2 x 5,7		•		
	359,3 x 5,7				3593-57
	379,2 x 5,7		•		
	379,3 x 5,7				3793-57
	399,2 x 5,7		•		
	399,3 x 5,7				3993-57
	419,2 x 5,7		•		
	419,3 x 5,7				4193-57
	439,2 x 5,7		•		
	439,3 x 5,7				4393-57
	459,2 x 5,7		•		
	459,3 x 5,7				4593-57
	479,2 x 5,7		•		
	479,3 x 5,7				4793-57
	499,2 x 5,7		•		
	499,3 x 5,7				4993-57

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.



O-ring cross section	O-ring D x d	DIN
6	6 x 6	•
	7 x 6	•
	9 x 6	•
	10 x 6	•
	11 x 6	•
	12 x 6	•
	13 x 6	•
	14 x 6	•
	15 x 6	•
	16 x 6	•
	18 x 6	•
	19 x 6	•
	19,5 x 6	•
	20 x 6	•
	21 x 6	•
	22 x 6	•
	23 x 6	•
	23,5 x 6	•
	24 x 6	•
	25 x 6	•
	26 x 6	•
	27 x 6	•
	28 x 6	•
	29 x 6	•
	30 x 6	•
	31 x 6	•
	32 x 6	•
	33 x 6	•
	34 x 6	•
	35 x 6	•
	36 x 6	•
	37 x 6	•
	38 x 6	•
	39 x 6	•
	39,5 x 6	•
	40 x 6	•
	41 x 6	•
	41,5 x 6	•
	42 x 6	•

O-ring cross section	O-ring D x d	DIN
6	43 x 6	•
	44 x 6	•
	44,5 x 6	•
	45 x 6	•
	46 x 6	•
	47 x 6	•
	48 x 6	•
	49 x 6	•
	50 x 6	•
	51 x 6	•
	52 x 6	•
	53 x 6	•
	54 x 6	•
	55 x 6	•
	56 x 6	•
	57 x 6	•
	58 x 6	•
	59,5 x 6	•
	60 x 6	•
	61 x 6	•
	62 x 6	•
	63 x 6	•
	64 x 6	•
	65 x 6	•
	66 x 6	•
	67 x 6	•
	68 x 6	•
	69 x 6	•
	70 x 6	•
	72 x 6	•
	73 x 6	•
	74 x 6	•
	75 x 6	•
	76 x 6	•
	78 x 6	•
	78,5 x 6	•
	79 x 6	•
	80 x 6	•
	81 x 6	•

O-ring cross section	O-ring D x d	DIN
6	81,5 x 6	•
	84 x 6	•
	85 x 6	•
	86 x 6	•
	88 x 6	•
	90 x 6	•
	92 x 6	•
	93 x 6	•
	95 x 6	•
	96 x 6	•
	98 x 6	•
	99 x 6	•
	100 x 6	•
	101 x 6	•
	103 x 6	•
	104 x 6	•
	104,5 x 6	•
	105 x 6	•
	106 x 6	•
	108 x 6	•
	110 x 6	•
	111 x 6	•
	112 x 6	•
	114 x 6	•
	115 x 6	•
	118 x 6	•
	120 x 6	•
	122 x 6	•
	123 x 6	•
	124 x 6	•
	125 x 6	•
	128 x 6	•
	130 x 6	•
	132 x 6	•
	134 x 6	•
	135 x 6	•
	136 x 6	•
	138 x 6	•
	139,2 x 6	•

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**

Example of item code

04 353 3609 GN

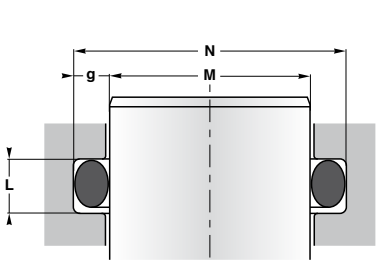
Material — Colour

d (mm) x 100 — **D** (mm) x 100

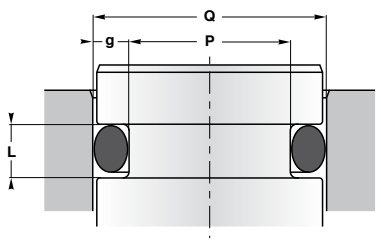
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	DIN
6	140 x 6	•
	142 x 6	•
	145 x 6	•
	146 x 6	•
	148 x 6	•
	150 x 6	•
	153 x 6	•
	154 x 6	•
	155 x 6	•
	155,5 x 6	•
	156 x 6	•
	157 x 6	•
	158 x 6	•
	159 x 6	•
	160 x 6	•
	162 x 6	•
	165 x 6	•
	166 x 6	•
	169 x 6	•
	170 x 6	•
	172 x 6	•
	175 x 6	•
	176 x 6	•
	180 x 6	•
	182 x 6	•
	184 x 6	•
	185 x 6	•
	188 x 6	•
	190 x 6	•
	193 x 6	•
	195 x 6	•
	196 x 6	•
	198 x 6	•
	200 x 6	•
	201 x 6	•
	202 x 6	•
	203 x 6	•
	203,5 x 6	•
	204 x 6	•

O-ring cross section	O-ring D x d	DIN
6	205 x 6	•
	208 x 6	•
	210 x 6	•
	212 x 6	•
	215 x 6	•
	216 x 6	•
	218 x 6	•
	220 x 6	•
	221 x 6	•
	225 x 6	•
	226 x 6	•
	229 x 6	•
	230 x 6	•
	235 x 6	•
	236 x 6	•
	237 x 6	•
	237,5 x 6	•
	238 x 6	•
	240 x 6	•
	242 x 6	•
	244 x 6	•
	247 x 6	•
	250 x 6	•
	258 x 6	•
	260 x 6	•
	262 x 6	•
	265 x 6	•
	266 x 6	•
	270 x 6	•
	278 x 6	•
	280 x 6	•
	284 x 6	•
	285 x 6	•
	288 x 6	•
	290 x 6	•
	294 x 6	•
	295 x 6	•
	300 x 6	•
	305 x 6	•

O-ring cross section	O-ring D x d	DIN
6	310 x 6	•
	315 x 6	•
	320 x 6	•
	325 x 6	•
	330 x 6	•
	335 x 6	•
	338 x 6	•
	340 x 6	•
	345 x 6	•
	348 x 6	•
	350 x 6	•
	355 x 6	•
	358 x 6	•
	360 x 6	•
	365 x 6	•
	368 x 6	•
	370 x 6	•
	375 x 6	•
	376 x 6	•
	380 x 6	•
	385 x 6	•
	386 x 6	•
	388 x 6	•
	389 x 6	•
	390 x 6	•
	392 x 6	•
	394 x 6	•
	395 x 6	•
	400 x 6	•
	410 x 6	
	415 x 6	•
	422 x 6	•
	429 x 6	•
	448 x 6	•
	450 x 6	•
	453 x 6	•
	460 x 6	
	470 x 6	•
	480 x 6	•

O-ring cross section	O-ring D x d	DIN
6	486 x 6	•
	489 x 6	•
	500 x 6	•
	504 x 6	•
	505 x 6	•
	510 x 6	•
	516 x 6	•
	530 x 6	•
	540 x 6	•
	549 x 6	•
	555 x 6	•
	560 x 6	•
	569 x 6	•
	575 x 6	•
	579 x 6	•
	600 x 6	•
	625 x 6	•

O-ring cross section	O-ring D x d
6,5	39 x 6,5
	123 x 6,5

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501	(F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518	(GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**		(I)

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**

Example of item code

04 353 3609 GN

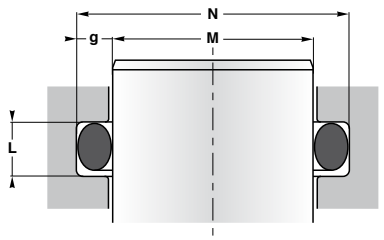
Material — Colour

d (mm) x 100 — **D** (mm) x 100

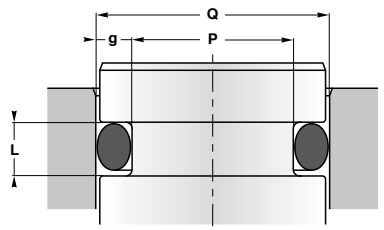
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

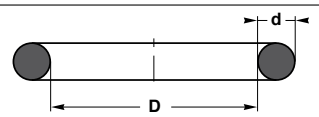
On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	ISO/DIN	DIN	AS/BS	R	NF	ITALY
7	50 x 7						
	53 x 7						
	57 x 7						
	58 x 7						
	59 x 7						
	60 x 7						
	62 x 7						
	63 x 7						
	68 x 7						
	70 x 7						
	75 x 7						
	79 x 7						
	80,5 x 7						
	82 x 7						
	85 x 7						
	88 x 7						
	89 x 7						
	90 x 7						
	92 x 7						
	94 x 7						
	95 x 7						
	98 x 7						
	99 x 7						
	100 x 7						
	104 x 7						
	105 x 7						
	106 x 7						
	108 x 7						
	110 x 7						
	112 x 7						
	113,67 x 7			425	R53		8450
	114 x 7						
	114,7 x 7			624			.197
	115 x 7					•	
	116 x 7						
	116,84 x 7			426	R54		8462
	119 x 7						
	120,02 x 7			427	R55		8475
	123,19 x 7			428	R56		8487
	124,6 x 7			625			.204
	125 x 7						
	126,37 x 7			429	R57		8500

O-ring cross section	O-ring D x d	ISO/DIN	DIN	AS/BS	R	NF	ITALY
7	129,54 x 7			430	R58		8512
	130 x 7						
	132,72 x 7			431	R59		8525
	133 x 7						
	134,5 x 7			626			.211
	135 x 7						
	135,89 x 7			432	R60		8537
	139,07 x 7			433	R61		8550
	140 x 7						
	142,24 x 7			434	R62		8562
	145 x 7						
	145,42 x 7			435	R63		8575
	148 x 7						
	148,59 x 7			436	R64		8587
	150 x 7						
	151,77 x 7			437	R65		8600
	154 x 7						
	155,6 x 7			872			.223
	158,12 x 7			438	R66		8625
	159,5 x 7			627			.225
	160 x 7						
	161,9 x 7			874			.226
	164 x 7						
	164,47 x 7			439	R67		8650
	166,7 x 7			628			.228
	168,3 x 7			876			.229
	170 x 7						
	170,82 x 7			440	R68		8675
	174,6 x 7			878			.231
	175 x 7						
	177,17 x 7			441	R69		8700
	178 x 7						
	181 x 7			880			.233
	183,52 x 7			442	R70		8725
	184 x 7						
	186 x 7						
	187,3 x 7			882			.235
	189,87 x 7			443	R71		8750
	190 x 7						

O-ring cross section	O-ring D x d	ISO/DIN	DIN	AS/BS	R	NF	ITALY
7	193,7 x 7			884			.237
	194 x 7						
	196,22 x 7			444	R72		8775
	200 x 7			886			.239
	202,57 x 7			445	R73		8800
	205 x 7						
	206 x 7	•				•	
	208,92 x 7			674			8825
	210 x 7						
	212 x 7	•				•	
	215,27 x 7			446	R74		8850
	218 x 7	•				•	
	220 x 7						
	221,62 x 7			676			8875
	224 x 7	•				•	
	227,97 x 7			447	R75		8900
	230 x 7	•				•	
	234,32 x 7			678			8925
	236 x 7	•				•	
	240 x 7						
	240,67 x 7			448	R76		8950
	243 x 7	•				•	
	246 x 7						
	247 x 7			680			8975
	250 x 7	•				•	
	253,37 x 7			449	R77		81000
	258 x 7	•				•	
	259,7 x 7			682			81025
	260 x 7						
	265 x 7	•				•	
	266,07 x 7			450	R78		81050
	270 x 7						
	272 x 7	•				•	
	272,4 x 7			684			81075
	278,77 x 7			451	R79		81100
	280 x 7	•				•	
	285,1 x 7			686			81125
	290 x 7	•				•	
	291,47 x 7			452	R80		81150

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)



Example of item code

04 353 3609 GN

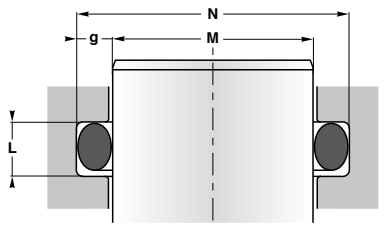
Material — Colour

d (mm) x 100 — **D** (mm) x 100

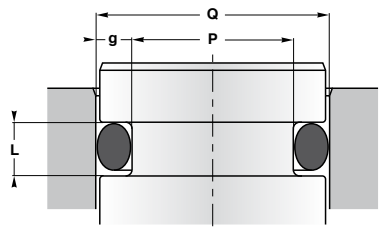
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

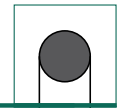
Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	ISO/DIN	DIN	AS/BS	R	NF	ITALY
7	297,8 x 7			688			81175
	300 x 7	•				•	
	304,17 x 7			453	R81		81200
	307 x 7	•				•	
	310,5 x 7			648			
	315 x 7	•				•	
	316,87 x 7			454	R82		81250
	320 x 7						
	323,2 x 7			649			
	325 x 7	•				•	
	329,57 x 7			455	R83		81300
	335 x 7	•				•	
	335,9 x 7			650			
	340 x 7						
	342,27 x 7			456	R84		81350
	345 x 7	•				•	
	354,97 x 7			457	R85		81400
	355 x 7	•				•	
	365 x 7	•				•	
	367,67 x 7			458	R86		81450
	375 x 7	•				•	
	380,37 x 7			459	R87		81500
	387 x 7	•				•	
	393,07 x 7			460	R88		81550
	400 x 7	•				•	
	405,26 x 7			461			
	412 x 7	•				•	
	417,96 x 7			462			
	425 x 7	•				•	
	430,66 x 7			463			
	437 x 7	•				•	
	443,36 x 7			464			
	450 x 7	•				•	
	456,06 x 7			465			
	457,2 x 7		•				
	462 x 7	•				•	
	468,76 x 7			466			
	475 x 7	•				•	
	481,46 x 7			467			
	487 x 7	•				•	
	494,16 x 7			468			
	494,67 x 7		•				

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.



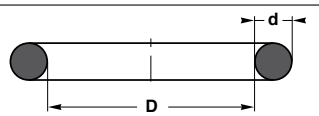
O-ring cross section	O-ring D x d	ISO/DIN	DIN	AS/BS	R	NF	ITALY
7	500 x 7	•				•	
	506,86 x 7			469			
	515 x 7	•				•	
	530 x 7	•				•	
	532,26 x 7			470			
	545 x 7	•				•	
	545,47 x 7		•				
	557,66 x 7			471			
	560 x 7	•				•	
	580 x 7	•				•	
	582,68 x 7			472			
	596,27 x 7						
	600 x 7	•				•	
	608,08 x 7			473			
	615 x 7	•				•	
	630 x 7						
	633,48 x 7			474			
	647,07 x 7						
	650 x 7						
	658,88 x 7			475			
	670 x 7	•				•	

O-ring cross section	O-ring D x d	ISO/DIN	DIN
8	95 x 8		
	210 x 8		
	258 x 8		

O-ring cross section	O-ring D x d	SMS	JIS	BS met
8,4	144,1 x 8,4	•		1441-84
	149,1 x 8,4	•		1491-84
	149,5 x 8,4		P150A	
	154,1 x 8,4	•		1541-84
	159,1 x 8,4	•		1591-84
	159,5 x 8,4		P160	
	164,1 x 8,4	•		1641-84
	164,5 x 8,4		P165	
	169,1 x 8,4	•		1691-84
	169,5 x 8,4		P170	
	174,1 x 8,4	•		1741-84
	174,5 x 8,4		P175	
	179,1 x 8,4	•		1791-84
	179,5 x 8,4		P180	
	184,1 x 8,4	•		1841-84
	184,5 x 8,4		P185	
	189,1 x 8,4	•		1891-84
	189,5 x 8,4		P190	
	194,1 x 8,4	•		1941-84
	194,5 x 8,4		P195	
	199,1 x 8,4	•		1991-84
	199,5 x 8,4		P200	
	204,1 x 8,4			2041-84
	204,5 x 8,4		P205	
	208,5 x 8,4		P209	
	209,1 x 8,4	•		2091-84
	209,5 x 8,4		P210	
	214,5 x 8,4		P215	
	219,1 x 8,4	•		2191-84
	219,5 x 8,4		P220	
	224,5 x 8,4		P225	
	229,1 x 8,4	•		2291-84
	229,5 x 8,4		P230	
	234,1 x 8,4			2341-84
	234,5 x 8,4		P235	
	239,1 x 8,4	•		2391-84
	239,5 x 8,4		P240	
	244,5 x 8,4		P245	
	249,1 x 8,4	•		2491-84

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**



Example of item code

04 353 3609 GN

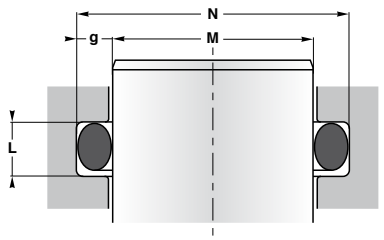
Material — Colour

d (mm) x 100 — **D** (mm) x 100

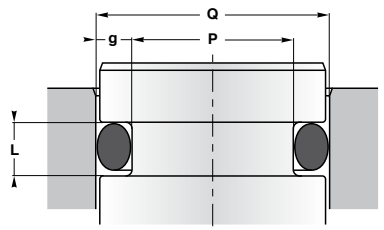
Material	Colour
01 : NBR 70 Sh A	**-** : Black
02 : NBR 80 Sh A	**BE** : Blue
03 : NBR 90 Sh A	**BN** : Brown
04 : FPM 75 Sh A	**GN** : Green
05 : FPM 90 Sh A	**GY** : Grey
06 : EPDM 70 Sh A	**RD** : Red
07 : MVQ 70 Sh A	**WE** : White
00 : Non-standard	**YW** : Yellow

see pages 10-19

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	SMS	JIS	BS met
8,4	249,5 x 8,4		P250	
	254,5 x 8,4		P255	
	259,5 x 8,4		P260	
	264,5 x 8,4		P265	
	269,5 x 8,4		P270	
	274,5 x 8,4		P275	
	279,5 x 8,4		P280	
	284,5 x 8,4		P285	
	289,5 x 8,4		P290	
	294,5 x 8,4		P295	
	299,5 x 8,4		P300	
	304,5 x 8,4		P305	
	314,5 x 8,4		P315	
	319,5 x 8,4		P320	
	324,5 x 8,4		P325	
	329,5 x 8,4		P330	
	334,5 x 8,4		P335	
	339,5 x 8,4		P340	
	354,5 x 8,4		P355	
	359,5 x 8,4		P360	
	369,5 x 8,4		P370	
	374,5 x 8,4		P375	
	384,5 x 8,4		P385	
	399,5 x 8,4		P400	
	419,5 x 8,4			
	440 x 8,4			
	461 x 8,4			
	481 x 8,4			
	522 x 8,4			
	560 x 8,4			
	590 x 8,4			
	640 x 8,4			
	648 x 8,4			
	670 x 8,4			
	690 x 8,4			
	715 x 8,4			
	730 x 8,4			
	742 x 8,4			
	762 x 8,4			
	774 x 8,4			
	799 x 8,4			
	811 x 8,4			

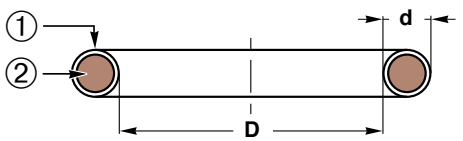
For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring D x d	SMS	JIS	BS met
8,4	830 x 8,4			
	865 x 8,4			
	888 x 8,4			
	934 x 8,4			
	962 x 8,4			
	985 x 8,4			
	1012 x 8,4			
	1020 x 8,4			

O-ring cross section	O-ring D x d
9	63 x 9
10	220 x 10
	420 x 10
	480 x 10
	600 x 10
	660 x 10
12	715 x 12
	960 x 12
	1000 x 12
	1027 x 12
	1056 x 12

ISO/DIN	ISO 3601/DIN 3771 (EU) (D)	**R**	(F)	**NF**	NF T 47-501 (F)
DIN	DIN 3770 (D)	**SMS**	SMS 1586 (S)	**BS met**	BS 4518 (GB)
AS/BS	AS 568A / BS 1806 (USA) (GB)	**JIS**	JIS B 2401 (J)	**ITALY**	(I)

The listed O-rings are not all stock items.
For prices and availability: **www.sealtech-business.be**

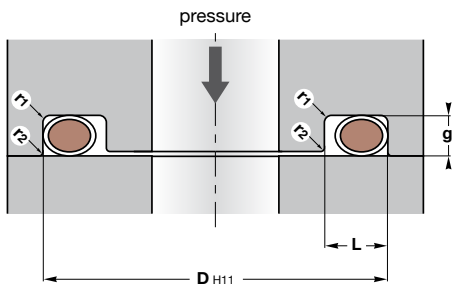


00FEP

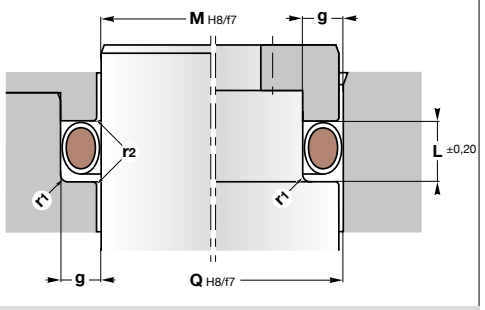
Example of item code

00FEP 353 3769 FPM

Profile | **d** (mm) | **D** (mm) | Material



Axial assembly
Dimensions of housings in table 143A



Radial assembly
Dimensions of housings in table 143B

Machining of housings: see page 81

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the different materials.

00FEP-encapsulated O-rings have a core of elastomer that is completely covered with a seamless sheath of FEP fluoropolymer. The elastomeric core is in either **fluorocarbon** (FPM) or **silicone** (MVQ).

Operating conditions — see page 8

Static pressure	≤ 25 MPa
Temperature	
FPM/FEP	-20°C to 200°C
MVQ/FEP	-60°C to 200°C
Fluids	almost all

Materials — see pages 10-19

① FEP	FEP
② Elastomers	FPM, MVQ

Attention, the production of 00FEP O-rings is only possible with a minimal diameter **D min** depending on the material ②.
See table 142A below.

Assembly — see pages 54-59

Axial assembly following annexed drawing: dimensions and tolerances of housings on next page (table 143A).

Radial assembly following annexed drawings: if possible in open grooves. Dimensions and tolerances of housings on next page (table 143B).

Advantages

Very good chemical resistance, large temperature range, used with pharmaceutical and chemical products, can be sterilised

Table 142A - **D min**

d	D min FPM	D min MVQ	r1	r2
1,6	10	5	0,3	0,2
1,78	10	5,28	0,4	0,2
2	10	6,8	0,5	0,2
2,5	12	7,4	0,5	0,2
2,62	12	7,6	0,6	0,2
3	15	12	0,8	0,2
3,53	15	13	1	0,2
4	16	14	1	0,2
4,5	18	15	1	0,2
5	22	20	1	0,2
5,34	25	22	1,2	0,2
5,5	27	23	1,2	0,2
5,7	27	24	1,2	0,2
6	30	27	1,2	0,2
7 (6,99)	50	50	1,5	0,2
8	75	75	1,5	0,4
8,4	80	80	2	0,4
9	100	100	2	0,4
10	140	110	2	0,4

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

Table 143A - Axial assembly

d	g	L	Tol. L
1,6	1,2	2,5	±0,2
1,78	1,3	2,7	±0,2
2	1,4	3	±0,2
2,5	1,83	3,5	±0,2
2,62	1,96	3,75	±0,2
3	2,25	4,15	±0,2
3,53	2,65	4,95	±0,2
4	3,05	5,25	±0,2
4,5	3,45	5,8	±0,2
5	3,85	6,4	±0,2
5,34	4,3	7,25	±0,2
5,5	4,38	7,3	±0,2
5,7	4,45	7,4	±0,2
6	4,85	7,8	±0,2
7 (6,99)	5,75	9,1	±0,2
8	6,4	10,2	±0,2
8,4	6,65	10,9	±0,2
9	7,3	11,7	±0,2
10	8,2	13	±0,2

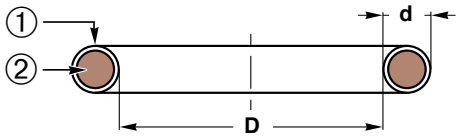
Table 143B - Radial assembly

d	g	L	Tol. L
1,6	1,2	2,1	±0,2
1,78	1,3	2,3	±0,2
2	1,5	2,6	±0,2
2,5	1,9	3,2	±0,2
2,62	2	3,4	±0,2
3	2,3	3,9	±0,2
3,53	2,75	4,5	±0,2
4	3,15	5,2	±0,2
4,5	3,6	5,8	±0,2
5	4	6,5	±0,2
5,34	4,3	6,9	±0,2
5,5	4,5	7,1	±0,2
5,7	4,65	7,4	±0,2
6	4,95	7,8	±0,2
7 (6,99)	5,85	9,1	±0,2
8	6,75	10,4	±0,2
8,4	7,15	10,9	±0,2
9	7,7	11,7	±0,2
10	8,65	13	±0,2

Tolerances of O-rings on demand.

O-ring cross section	O-ring D x d	Reference ① = FPM	Reference ② = MVQ = SIL
1,78	9,25 X 1,78		**00FEP 178 925 SIL**
	10,82 X 1,78	**00FEP 178 1082 FPM**	**00FEP 178 1082 SIL**
	12,42 X 1,78	**00FEP 178 1242 FPM**	**00FEP 178 1242 SIL**
	14 X 1,78	**00FEP 178 1400 FPM**	**00FEP 178 1400 SIL**
	15,6 X 1,78	**00FEP 178 1560 FPM**	**00FEP 178 1560 SIL**
	18,77 X 1,78	**00FEP 178 1877 FPM**	**00FEP 178 1877 SIL**
2,62	15,54 X 2,62	**00FEP 262 1554 FPM**	**00FEP 262 1554 SIL**
	17,12 X 2,62	**00FEP 262 1712 FPM**	**00FEP 262 1712 SIL**
	20,3 X 2,62	**00FEP 262 2030 FPM**	**00FEP 262 2030 SIL**
	21,89 X 2,62	**00FEP 262 2189 FPM**	**00FEP 262 2189 SIL**
	25,07 X 2,62	**00FEP 262 2507 FPM**	**00FEP 262 2507 SIL**
	26,64 X 2,62	**00FEP 262 2664 FPM**	**00FEP 262 2664 SIL**
	29,82 X 2,62	**00FEP 262 2982 FPM**	**00FEP 262 2982 SIL**
	31,42 X 2,62	**00FEP 262 3142 FPM**	**00FEP 262 3142 SIL**
	32,99 X 2,62	**00FEP 262 3299 FPM**	**00FEP 262 3299 SIL**
	34,59 X 2,62	**00FEP 262 3459 FPM**	**00FEP 262 3459 SIL**
	36,17 X 2,62	**00FEP 262 3617 FPM**	**00FEP 262 3617 SIL**
	39,34 X 2,62	**00FEP 262 3934 FPM**	**00FEP 262 3934 SIL**
	42,52 X 2,62	**00FEP 262 4252 FPM**	**00FEP 262 4252 SIL**
	44,12 X 2,62	**00FEP 262 4412 FPM**	**00FEP 262 4412 SIL**
3,53	32,92 X 3,53	**00FEP 353 3292 FPM**	**00FEP 353 3292 SIL**
	34,52 X 3,53	**00FEP 353 3452 FPM**	**00FEP 353 3452 SIL**
	37,69 X 3,53	**00FEP 353 3769 FPM**	**00FEP 353 3769 SIL**
	40,87 X 3,53	**00FEP 353 4087 FPM**	**00FEP 353 4087 SIL**
	44,04 X 3,53	**00FEP 353 4404 FPM**	**00FEP 353 4404 SIL**
	47,22 X 3,53	**00FEP 353 4722 FPM**	**00FEP 353 4722 SIL**
	53,57 X 3,53	**00FEP 353 5357 FPM**	**00FEP 353 5357 SIL**
	56,74 X 3,53	**00FEP 353 5674 FPM**	**00FEP 353 5674 SIL**
	63,09 X 3,53	**00FEP 353 6309 FPM**	**00FEP 353 6309 SIL**
	66,27 X 3,53	**00FEP 353 6627 FPM**	**00FEP 353 6627 SIL**
	72,62 X 3,53	**00FEP 353 7262 FPM**	**00FEP 353 7262 SIL**
	78,97 X 3,53	**00FEP 353 7897 FPM**	**00FEP 353 7897 SIL**
	82,14 X 3,53	**00FEP 353 8214 FPM**	**00FEP 353 8214 SIL**
	88,49 X 3,53	**00FEP 353 8849 FPM**	**00FEP 353 8849 SIL**
	91,67 X 3,53	**00FEP 353 9167 FPM**	**00FEP 353 9167 SIL**
5,34	78,74 X 5,34	**00FEP 534 7874 FPM**	**00FEP 534 7874 SIL**
	85,09 X 5,34	**00FEP 534 8509 FPM**	**00FEP 534 8509 SIL**
	88,27 X 5,34	**00FEP 534 8827 FPM**	**00FEP 534 8827 SIL**
	94,62 X 5,34	**00FEP 534 9462 FPM**	**00FEP 534 9462 SIL**
	97,79 X 5,34	**00FEP 534 9779 FPM**	**00FEP 534 9779 SIL**
	104,14 X 5,34	**00FEP 534 10414 FPM**	**00FEP 534 10414 SIL**

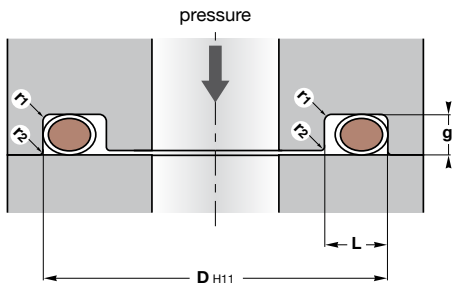
Non-stock items. Contact us for delivery times.
For prices and availability: **www.sealtech-business.be**



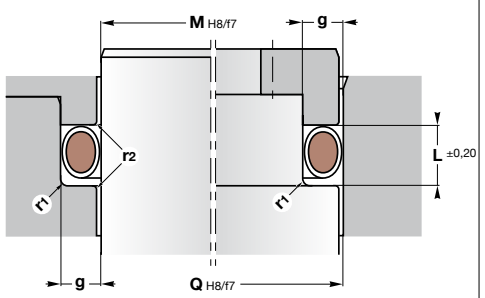
00FEP

Example of item code

00FEP	353	3769	FPM
Profile	**d** (mm)	**D** (mm)	Material



Axial assembly
Dimensions of housings in table 145A



Radial assembly
Dimensions of housings in table 145B

Machining of housings: see page 81

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the different materials.

00FEP-encapsulated O-rings have a core of elastomer that is completely covered with a seamless sheath of FEP fluoropolymer. The elastomeric core is in either **fluorocarbon** (FPM) or **silicone** (MVQ).

Operating conditions see page 8

Static pressure	≤ 25 MPa
Temperature	
FPM/FEP	-20°C to 200°C
MVQ/FEP	-60°C to 200°C
Fluids	almost all

Materials see pages 10-19

① FEP	FEP
② Elastomers	FPM, MVQ

Attention, the production of 00FEP O-rings is only possible with a minimal diameter **D min** depending on the material ②.
See table 144A below.

Assembly see pages 54-59

Axial assembly following annexed drawing: dimensions and tolerances of housings on next page (table 145A).

Radial assembly following annexed drawings: if possible in open grooves. Dimensions and tolerances of housings on next page (table 145B).

Advantages

Very good chemical resistance, large temperature range, used with pharmaceutical and chemical products, can be sterilised

Table 144A - **D min**

d	D min FPM	D min MVQ	r1	r2
1,6	10	5	0,3	0,2
1,78	10	5,28	0,4	0,2
2	10	6,8	0,5	0,2
2,5	12	7,4	0,5	0,2
2,62	12	7,6	0,6	0,2
3	15	12	0,8	0,2
3,53	15	13	1	0,2
4	16	14	1	0,2
4,5	18	15	1	0,2
5	22	20	1	0,2
5,34	25	22	1,2	0,2
5,5	27	23	1,2	0,2
5,7	27	24	1,2	0,2
6	30	27	1,2	0,2
7 (6,99)	50	50	1,5	0,2
8	75	75	1,5	0,4
8,4	80	80	2	0,4
9	100	100	2	0,4
10	140	110	2	0,4

Table 145A - Axial assembly

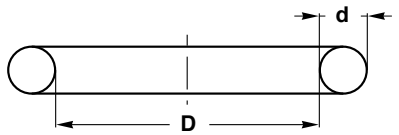
d	g	L	Tol. L
1,6	1,2	2,5	±0,2
1,78	1,3	2,7	±0,2
2	1,4	3	±0,2
2,5	1,83	3,5	±0,2
2,62	1,96	3,75	±0,2
3	2,25	4,15	±0,2
3,53	2,65	4,95	±0,2
4	3,05	5,25	±0,2
4,5	3,45	5,8	±0,2
5	3,85	6,4	±0,2
5,34	4,3	7,25	±0,2
5,5	4,38	7,3	±0,2
5,7	4,45	7,4	±0,2
6	4,85	7,8	±0,2
7 (6,99)	5,75	9,1	±0,2
8	6,4	10,2	±0,2
8,4	6,65	10,9	±0,2
9	7,3	11,7	±0,2
10	8,2	13	±0,2

Table 145B - Radial assembly

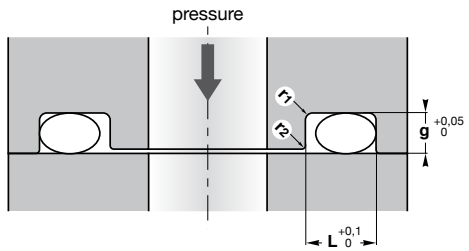
d	g	L	Tol. L
1,6	1,2	2,1	±0,2
1,78	1,3	2,3	±0,2
2	1,5	2,6	±0,2
2,5	1,9	3,2	±0,2
2,62	2	3,4	±0,2
3	2,3	3,9	±0,2
3,53	2,75	4,5	±0,2
4	3,15	5,2	±0,2
4,5	3,6	5,8	±0,2
5	4	6,5	±0,2
5,34	4,3	6,9	±0,2
5,5	4,5	7,1	±0,2
5,7	4,65	7,4	±0,2
6	4,95	7,8	±0,2
7 (6,99)	5,85	9,1	±0,2
8	6,75	10,4	±0,2
8,4	7,15	10,9	±0,2
9	7,7	11,7	±0,2
10	8,65	13	±0,2

Tolerances of O-rings on demand.

O-ring cross section	O-ring D x d	Reference ① = **FPM**	Reference ② = **MVQ** = **SIL**
5,34	107,32 X 5,34	**00FEP 534 10732 FPM**	**00FEP 534 10732 SIL**
	113,67 X 5,34	**00FEP 534 11367 FPM**	**00FEP 534 11367 SIL**
	120,02 X 5,34	**00FEP 534 12002 FPM**	**00FEP 534 12002 SIL**
	129,54 X 5,34	**00FEP 534 12954 FPM**	**00FEP 534 12954 SIL**
	139,07 X 5,34	**00FEP 534 13907 FPM**	**00FEP 534 13907 SIL**
	148,59 X 5,34	**00FEP 534 14859 FPM**	**00FEP 534 14859 SIL**
	158,12 X 5,34	**00FEP 534 15812 FPM**	**00FEP 534 15812 SIL**
	164,47 X 5,34	**00FEP 534 16447 FPM**	**00FEP 534 16447 SIL**
	177,17 X 5,34	**00FEP 534 17717 FPM**	**00FEP 534 17717 SIL**
	189,87 X 5,34	**00FEP 534 18987 FPM**	**00FEP 534 18987 SIL**



00RPT



Axial assembly

The O-rings **00RPT** of SEALTECH are **machined**, are machined, which allows great flexibility in manufacturing and customer service.
To dimension the groove in case of an axial assembly, we refer to table 146A.

Machining of housings: see page 81

00RPT are PTFE O-rings for use in **axial static faces** or flange applications which require a chemical resistance.

Operating conditions	see page 8
Static pressure	≤ 40 MPa
Temperature	-200°C to 260°C
Fluids	almost all

Materials	see pages 10-19
PTFE (colour: white)	PT01

Assembly	see pages 54-59

Axial assembly: all flanges
Dimensions of housing: see table 146A

Advantages

Very good chemical resistance
Large range of temperature
Applications in chemical and food industry

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

Table 146A

d	g	Lf	r1	r2
1,5 1,52	1,3	1,7	0,2	0,1
1,6 1,63	1,4	1,8	0,3	0,1
1,78 1,8	1,6	2	0,4	0,1
2 1,98	1,8	2,2	0,5	0,1
2,4	2,15	2,6	0,5	0,1
2,5	2,25	2,8	0,5	0,1
2,62 2,65	2,35	2,9	0,6	0,1
3	2,7	3,3	0,8	0,15
3,53 3,55	3,15	3,9	1	0,15
4	3,6	4,4	1	0,15
5	4,5	5,5	1	0,15
5,34 5,3	4,8	5,9	1,2	0,2
5,7	5,1	6,3	1,2	0,2
6	5,6	6,6	1,2	0,2
7 6,99	6,3	7,7	1,5	0,2
8	7,2	8,8	1,5	0,2
8,4	7,55	9,2	2	0,2

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

SEALTECH
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O-ring cross section	O-ring D x d	g	L	Reference
1,78	6,75 X 1,78	1,6	2	**00RPT 178 675**
	7,65 X 1,78	1,6	2	**00RPT 178 765**
	9,25 X 1,78	1,6	2	**00RPT 178 925**
	10,82 X 1,78	1,6	2	**00RPT 178 1082**
	12,42 X 1,78	1,6	2	**00RPT 178 1242**
	14 X 1,78	1,6	2	**00RPT 178 1400**
	15,6 X 1,78	1,6	2	**00RPT 178 1560**
	18,77 X 1,78	1,6	2	**00RPT 178 1877**
2,62	15,54 X 2,62	2,35	2,9	**00RPT 262 1554**
	17,12 X 2,62	2,35	2,9	**00RPT 262 1712**
	20,3 X 2,62	2,35	2,9	**00RPT 262 2030**
	21,89 X 2,62	2,35	2,9	**00RPT 262 2189**
	25,07 X 2,62	2,35	2,9	**00RPT 262 2507**
	26,64 X 2,62	2,35	2,9	**00RPT 262 2664**
	29,82 X 2,62	2,35	2,9	**00RPT 262 2982**
	31,42 X 2,62	2,35	2,9	**00RPT 262 3142**
	32,99 X 2,62	2,35	2,9	**00RPT 262 3299**
	34,59 X 2,62	2,35	2,9	**00RPT 262 3459**
	36,17 X 2,62	2,35	2,9	**00RPT 262 3617**
	39,34 X 2,62	2,35	2,9	**00RPT 262 3934**
	42,52 X 2,62	2,35	2,9	**00RPT 262 4252**
	44,12 X 2,62	2,35	2,9	**00RPT 262 4412**
3,53	32,92 X 3,53	3,15	3,9	**00RPT 353 3292**
	34,52 X 3,53	3,15	3,9	**00RPT 353 3452**
	37,69 X 3,53	3,15	3,9	**00RPT 353 3769**
	40,87 X 3,53	3,15	3,9	**00RPT 353 4087**
	44,04 X 3,53	3,15	3,9	**00RPT 353 4404**
	47,22 X 3,53	3,15	3,9	**00RPT 353 4722**
3,53	53,57 X 3,53	3,15	3,9	**00RPT 353 5357**
	56,74 X 3,53	3,15	3,9	**00RPT 353 5674**
	63,09 X 3,53	3,15	3,9	**00RPT 353 6309**
	66,27 X 3,53	3,15	3,9	**00RPT 353 6627**
	72,62 X 3,53	3,15	3,9	**00RPT 353 7262**
	78,97 X 3,53	3,15	3,9	**00RPT 353 7897**
	82,14 X 3,53	3,15	3,9	**00RPT 353 8214**
	88,49 X 3,53	3,15	3,9	**00RPT 353 8849**
	91,67 X 3,53	3,15	3,9	**00RPT 353 9167**
5,34	78,74 X 5,34	4,8	5,9	**00RPT 534 7874**
	85,09 X 5,34	4,8	5,9	**00RPT 534 8509**
	88,27 X 5,34	4,8	5,9	**00RPT 534 8827**
	94,62 X 5,34	4,8	5,9	**00RPT 534 9462**
	97,79 X 5,34	4,8	5,9	**00RPT 534 9779**
	104,14 X 5,34	4,8	5,9	**00RPT 534 10414**
	107,32 X 5,34	4,8	5,9	**00RPT 534 10732**
	113,67 X 5,34	4,8	5,9	**00RPT 534 11367**
	120,02 X 5,34	4,8	5,9	**00RPT 534 12002**
	129,54 X 5,34	4,8	5,9	**00RPT 534 12954**
	139,07 X 5,34	4,8	5,9	**00RPT 534 13907**
	148,59 X 5,34	4,8	5,9	**00RPT 534 14859**
	158,12 X 5,34	4,8	5,9	**00RPT 534 15812**
	164,47 X 5,34	4,8	5,9	**00RPT 534 16447**
	177,17 X 5,34	4,8	5,9	**00RPT 534 17717**
	189,87 X 5,34	4,8	5,9	**00RPT 534 18987**

Non-stock items. Contact us for delivery times.
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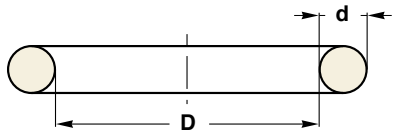


00RPU

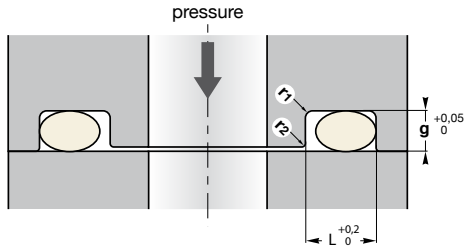
Example of item code

00RPU 353 6800 BE

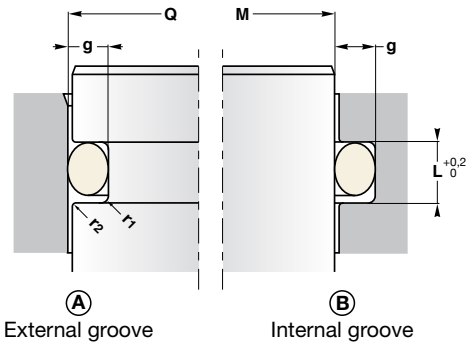
Profile | **d** (mm) x 100 | **D** (mm) x 100 | Colour

Colour

-	: Black	**GY**	: Grey
BE	: Blue	**RD**	: Red
BN	: Brown	**WE**	: White
GN	: Green	**YW**	: Yellow



Axial assembly



Ⓐ External groove

Ⓑ Internal groove

Radial assembly

Machining of housings: see page 81

00RPU polyurethane O-rings are suitable for both dynamic and static sealing applications. They are manufactured from thermosetting liquid cast polyurethane of 92 Sh A, and have exceptionally good abrasion resistance and **extrusion resistance** qualities. Polyurethane O-Rings are used instead of NBR due to their high mechanical strengths.

Operating conditions see page 8

Static pressure	≤ 40 MPa
Temperature	-30°C to 100°C
Linear speed	≤ 0,2 m/sec
Fluids	mineral oils

Materials see pages 10-19

Polyurethane — PU26 (natural colour or green)

Assembly see pages 54-59

Axial assembly: all flanges

Radial assembly: dimensioning of the housing on table 148A

Advantages

Excellent resistance to abrasion and extrusion, allows the possibility working without back-up, very high pressure in static applications

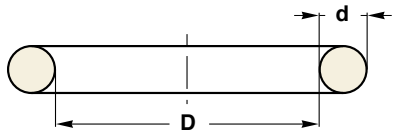
Please contact us for applications approaching maximum values.

Table 148A

d	g	L	r1	r2
1 1,02	0,9	1,4	0,2	0,1
1,5 1,52	1,25	2	0,2	0,1
1,6 1,63	1,3	2,1	0,3	0,1
1,78 1,8	1,45	2,4	0,3	0,1
1,9	1,55	2,6	0,4	0,1
2 1,98	1,65	2,7	0,4	0,1
2,4	2,05	3,2	0,5	0,1
2,5	2,15	3,3	0,5	0,1
2,62 2,65	2,25	3,6	0,6	0,1
2,7	2,3	3,6	0,6	0,1
3	2,6	4	0,6	0,15
3,1	2,7	4,1	0,6	0,15
3,5	3,05	4,6	0,6	0,15
3,53 3,55	3,1	4,8	0,8	0,15
3,6	3,15	4,8	0,8	0,15
4	3,5	5,2	0,8	0,15
4,5	4	5,8	0,8	0,15
5	4,4	6,6	0,8	0,15
5,34 5,3	4,7	7,1	1,2	0,2
5,5	4,8	7,1	1,2	0,2
5,7	5	7,2	1,2	0,2
6	5,3	7,4	1,2	0,2
7 6,99	6,1	9,5	1,5	0,2
8	7,1	9,8	1,5	0,2
8,4	7,5	10	1,5	0,2

O-ring cross section	O-ring D x d	g	L	Reference
1,78	5,28 X 1,78	1,45	2,4	**00RPU 178 528**
	9,25 X 1,78	1,45	2,4	**00RPU 178 925**
	10,82 X 1,78	1,45	2,4	**00RPU 178 1082**
	12,42 X 1,78	1,45	2,4	**00RPU 178 1242**
	14 X 1,78	1,45	2,4	**00RPU 178 1400**
	15,6 X 1,78	1,45	2,4	**00RPU 178 1560**
	17,17 X 1,78	1,45	2,4	**00RPU 178 1717**
	18,77 X 1,78	1,45	2,4	**00RPU 178 1877**
2	6 X 2	1,65	2,7	**00RPU 200 600**
	7 X 2	1,65	2,7	**00RPU 200 700**
	8 X 2	1,65	2,7	**00RPU 200 800**
	9 X 2	1,65	2,7	**00RPU 200 900**
	10 X 2	1,65	2,7	**00RPU 200 1000**
	12 X 2	1,65	2,7	**00RPU 200 1200**
	16 X 2	1,65	2,7	**00RPU 200 1600**
	19 X 2	1,65	2,7	**00RPU 200 1900**
	26 X 2	1,65	2,7	**00RPU 200 2600**
2,5	10 X 2,5	2,15	3,3	**00RPU 250 1000**
	12 X 2,5	2,15	3,3	**00RPU 250 1200**
	18 X 2,5	2,15	3,3	**00RPU 250 1800**
2,62	13,94 X 2,62	2,25	3,6	**00RPU 262 1394**
	14,03 X 2,62	2,25	3,6	**00RPU 262 1403**
	15,54 X 2,62	2,25	3,6	**00RPU 262 1554**
	17,12 X 2,62	2,25	3,6	**00RPU 262 1712**
	18,72 X 2,62	2,25	3,6	**00RPU 262 1872**
	20,3 X 2,62	2,25	3,6	**00RPU 262 2030**
	21,89 X 2,62	2,25	3,6	**00RPU 262 2189**
	23,47 X 2,62	2,25	3,6	**00RPU 262 2347**
	25,07 X 2,62	2,25	3,6	**00RPU 262 2507**
	26,64 X 2,62	2,25	3,6	**00RPU 262 2664**
	28,24 X 2,62	2,25	3,6	**00RPU 262 2824**
	29,82 X 2,62	2,25	3,6	**00RPU 262 2982**
	31,42 X 2,62	2,25	3,6	**00RPU 262 3142**
	32,99 X 2,62	2,25	3,6	**00RPU 262 3299**
	34,59 X 2,62	2,25	3,6	**00RPU 262 3459**
	36,17 X 2,62	2,25	3,6	**00RPU 262 3617**
	39,34 X 2,62	2,25	3,6	**00RPU 262 3934**
	40,94 X 2,62	2,25	3,6	**00RPU 262 4094**
	42,52 X 2,62	2,25	3,6	**00RPU 262 4252**
	44,12 X 2,62	2,25	3,6	**00RPU 262 4412**

O-ring cross section	O-ring D x d	g	L	Reference
3	35 X 3	2,6	4	**00RPU 300 3500**
	42 X 3	2,6	4	**00RPU 300 4200**
	52 X 3	2,6	4	**00RPU 300 5200**
	56 X 3	2,6	4	**00RPU 300 5600**
3,53	18,64 X 3,53	3,1	4,8	**00RPU 353 1864**
	24,99 X 3,53	3,1	4,8	**00RPU 353 2499**
	28,17 X 3,53	3,1	4,8	**00RPU 353 2817**
	32,92 X 3,53	3,1	4,8	**00RPU 353 3292**
	34,52 X 3,53	3,1	4,8	**00RPU 353 3452**
	36,09 X 3,53	3,1	4,8	**00RPU 353 3609**
	37,69 X 3,53	3,1	4,8	**00RPU 353 3769**
	40,87 X 3,53	3,1	4,8	**00RPU 353 4087**
	44,04 X 3,53	3,1	4,8	**00RPU 353 4404**
	47,22 X 3,53	3,1	4,8	**00RPU 353 4722**
	50,39 X 3,53	3,1	4,8	**00RPU 353 5039**
	53,57 X 3,53	3,1	4,8	**00RPU 353 5357**
	56,74 X 3,53	3,1	4,8	**00RPU 353 5674**
	59 X 3,53	3,1	4,8	**00RPU 353 5900**
	59 X 3,53	3,1	4,8	**00RPU 353 5900 BE**
	59,92 X 3,53	3,1	4,8	**00RPU 353 5992**
	60,32 X 3,53	3,1	4,8	**00RPU 353 6032**
	63,09 X 3,53	3,1	4,8	**00RPU 353 6309**
	66,27 X 3,53	3,1	4,8	**00RPU 353 6627**
	68 X 3,53	3,1	4,8	**00RPU 353 6800**
	68 X 3,53	3,1	4,8	**00RPU 353 6800 BE**
	69,44 X 3,53	3,1	4,8	**00RPU 353 6944**
	72,62 X 3,53	3,1	4,8	**00RPU 353 7262**
	75,79 X 3,53	3,1	4,8	**00RPU 353 7579**
	75,79 X 3,53	3,1	4,8	**00RPU 353 7579 BE**
	78,97 X 3,53	3,1	4,8	**00RPU 353 7897**
	82,14 X 3,53	3,1	4,8	**00RPU 353 8214**
	85,32 X 3,53	3,1	4,8	**00RPU 353 8532**
	88,49 X 3,53	3,1	4,8	**00RPU 353 8849**
	91,67 X 3,53	3,1	4,8	**00RPU 353 9167**
	94,84 X 3,53	3,1	4,8	**00RPU 353 9484**



00RPU

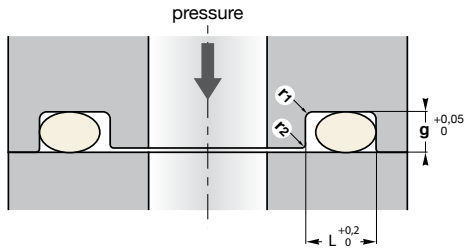
Example of item code

00RPU 353 6800 BE

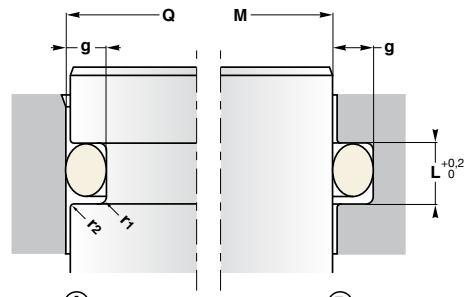
Profile | **d** (mm) x 100 | **D** (mm) x 100 | Colour

Colour

-	: Black	**GY**	: Grey
BE	: Blue	**RD**	: Red
BN	: Brown	**WE**	: White
GN	: Green	**YW**	: Yellow



Axial assembly



External groove | Internal groove

Radial assembly

Machining of housings: see page 81

00RPU polyurethane O-rings are suitable for both dynamic and static sealing applications. They are manufactured from thermosetting liquid cast polyurethane of 92 Sh A, and have exceptionally good abrasion resistance and **extrusion resistance** qualities. Polyurethane O-Rings are used instead of NBR due to their high mechanical strengths.

Operating conditions see page 8

Static pressure	≤ 40 MPa
Temperature	-30°C to 100°C
Linear speed	≤ 0,2 m/sec
Fluids	mineral oils

Materials see pages 10-19

Polyurethane	PU26 (natural colour or green)

Assembly see pages 54-59

Axial assembly: all flanges

Radial assembly: dimensioning of the housing on table 150A

Advantages

Excellent resistance to abrasion and extrusion, allows the possibility working without back-up, very high pressure in static applications

Please contact us for applications approaching maximum values.

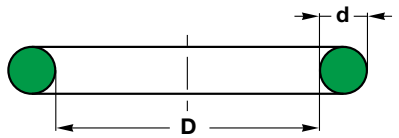
Table 150A

d	g	L	r1	r2
1 1,02	0,9	1,4	0,2	0,1
1,5 1,52	1,25	2	0,2	0,1
1,6 1,63	1,3	2,1	0,3	0,1
1,78 1,8	1,45	2,4	0,3	0,1
1,9	1,55	2,6	0,4	0,1
2 1,98	1,65	2,7	0,4	0,1
2,4	2,05	3,2	0,5	0,1
2,5	2,15	3,3	0,5	0,1
2,62 2,65	2,25	3,6	0,6	0,1
2,7	2,3	3,6	0,6	0,1
3	2,6	4	0,6	0,15
3,1	2,7	4,1	0,6	0,15
3,5	3,05	4,6	0,6	0,15
3,53 3,55	3,1	4,8	0,8	0,15
3,6	3,15	4,8	0,8	0,15
4	3,5	5,2	0,8	0,15
4,5	4	5,8	0,8	0,15
5	4,4	6,6	0,8	0,15
5,34 5,3	4,7	7,1	1,2	0,2
5,5	4,8	7,1	1,2	0,2
5,7	5	7,2	1,2	0,2
6	5,3	7,4	1,2	0,2
7 6,99	6,1	9,5	1,5	0,2
8	7,1	9,8	1,5	0,2
8,4	7,5	10	1,5	0,2

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

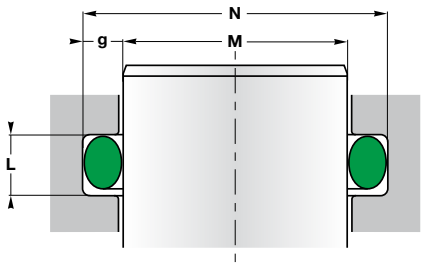
O-ring cross section	O-ring D x d	g	L	Reference
5,34	62,87 X 5,34	4,7	7,1	**00RPU 534 6287**
	78,74 X 5,34	4,7	7,1	**00RPU 534 7874**
	81,92 X 5,34	4,7	7,1	**00RPU 534 8192**
	85,09 X 5,34	4,7	7,1	**00RPU 534 8509**
	88,27 X 5,34	4,7	7,1	**00RPU 534 8827**
	91,44 X 5,34	4,7	7,1	**00RPU 534 9144**
	94,62 X 5,34	4,7	7,1	**00RPU 534 9462**
	97,79 X 5,34	4,7	7,1	**00RPU 534 9779**
	100,97 X 5,34	4,7	7,1	**00RPU 534 10097**
	104,14 X 5,34	4,7	7,1	**00RPU 534 10414**
	107,32 X 5,34	4,7	7,1	**00RPU 534 10732**
	110,49 X 5,34	4,7	7,1	**00RPU 534 11049**
	113,67 X 5,34	4,7	7,1	**00RPU 534 11367**
	116,84 X 5,34	4,7	7,1	**00RPU 534 11684**
	120,02 X 5,34	4,7	7,1	**00RPU 534 12002**
	123,19 X 5,34	4,7	7,1	**00RPU 534 12319**
	129,54 X 5,34	4,7	7,1	**00RPU 534 12954**
	139,07 X 5,34	4,7	7,1	**00RPU 534 13907**
	142,24 X 5,34	4,7	7,1	**00RPU 534 14224**
	145,42 X 5,34	4,7	7,1	**00RPU 534 14542**
	148,59 X 5,34	4,7	7,1	**00RPU 534 14859**
	158,12 X 5,34	4,7	7,1	**00RPU 534 15812**
	164,47 X 5,34	4,7	7,1	**00RPU 534 16447**
	177,17 X 5,34	4,7	7,1	**00RPU 534 17717**
	183,52 X 5,34	4,7	7,1	**00RPU 534 18352**
	189,87 X 5,34	4,7	7,1	**00RPU 534 18987**

Non-stock items. Contact us for delivery times.
For prices and availability: **www.sealtech-business.be**

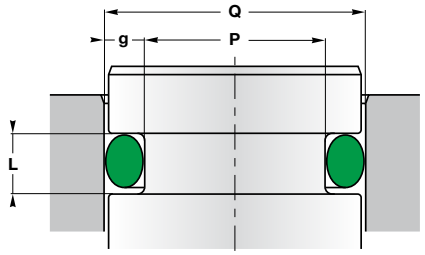


41V1

Select the inner diameter D of the O-ring



1,01N ≤ D+2d ≤ 1,03N



0,95P ≤ D ≤ 0,99P

Machining of housings: see pages 81, 82 and 83

The **41V1** O-ring is an alternative to conventional rubber elastomer O-rings.

Due to the extrusion resistance of the polyurethane compounds, there is no need to use a back-up ring at higher or pulsating pressures. By eliminating the need for back-up rings the required width of the groove is reduced.

The compound Ultrathan® P5008 is a Parker standard material based on polyurethane with a Shore A hardness of approx. 93. Its main advantages in comparison with other polyurethane materials currently available on the market are the increased heat resistance and the lower compression set.

Operating conditions	**see page 8**
Static pressure	≤ 60 MPa
Temperature	-35°C to 100°C
Fluids	Hydraulic oils based on mineral oil, HFA, and HFB fluids

Materials	**see pages 10-19**
Polyurethane	P5008 94 Sh A

Assembly **see pages 54-59**

Due to the higher modulus of the polyurethane compounds, the housings are slightly different from those of standard O-rings.

All edges should be rounded by at least R = 0,1.

Polyurethane O-rings show no tendency to twisting.

Advantages

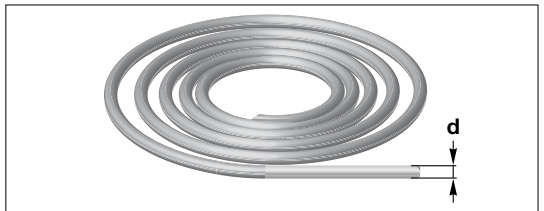
- Robust seal profile for harshest operating conditions
- Extreme wear resistance
- Suitable for fully automatic installation
- Insensitive to pressure peaks
- High extrusion resistance
- Installation in closed and undercut housings

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring D x d	g	L	Reference
1,78	5,28 X 1,78	1,45	2,4	**41V1 0305 P5008**
	8,73 X 1,78	1,45	2,4	**41V1 0537 P5008**
	9,25 X 1,78	1,45	2,4	**41V1 0615 P5008**
	10,82 X 1,78	1,45	2,4	**41V1 1065 P5008**
	12,42 X 1,78	1,45	2,4	**41V1 1200 P5008**
	14 X 1,78	1,45	2,4	**41V1 1284 P5008**
	15,6 X 1,78	1,45	2,4	**41V1 1418 P5008**
2	6 X 2	1,65	2,7	**41V1 0335 P5008**
	7 X 2	1,65	2,7	**41V1 0397 P5008**
	8 X 2	1,65	2,7	**41V1 0485 P5008**
	9 X 2	1,65	2,7	**41V1 0566 P5008**
	10 X 2	1,65	2,7	**41V1 1010 P5008**
	12 X 2	1,65	2,7	**41V1 1146 P5008**
	16 X 2	1,65	2,7	**41V1 1435 P5008**
	19 X 2	1,65	2,7	**41V1 1670 P5008**
	26 X 2	1,65	2,7	**41V1 2497 P5008**
2,5	10 X 2,5	2,1	3,4	**41V1 1015 P5008**
	12 X 2,5	2,1	3,4	**41V1 1150 P5008**
2,62	14,03 X 2,62	2,25	3,6	**41V1 1312 P5008**
	17,12 X 2,62	2,25	3,6	**41V1 1556 P5008**
	18,72 X 2,62	2,25	3,6	**41V1 1640 P5008**
3	35 X 3	2,55	4,2	**41V1 3380 P5008**
3,53	18,64 X 3,53	3,1	4,8	**41V1 1638 P5008**
	24,99 X 3,53	3,1	4,8	**41V1 2394 P5008**
	28,17 X 3,53	3,1	4,8	**41V1 2658 P5008**



09OR

The range of **09OR** rubber cords is available in NBR and FPM (also possibilities in MVQ or EPDM). The cord can be spliced, after been cut to the desired length. Spliced O-rings are not recommended for dynamic applications or in case of high pressures.

They are basically used as convenient solution for sealing **large flanges**, lids or housings.

Materials see pages 10-19

Standard — NBR 70 Sh A, FPM 70 Sh A

Advantages

It's possible to produce a large range of diameters with only one item code

Interesting for large diameters by vulcanisation or sticking

Disadvantages

Inaccurate tolerances: see table on next page

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

NBR			FPM		
d	Tol d NBR 70	Reference	d	Tol d FPM 70	Reference
1,78	± 0,2	090R 178	1,78	± 0,2	090R 178 FPM
2	± 0,2	090R 200	2	± 0,2	090R 200 FPM
2,4	± 0,25	090R 240	2,4	± 0,2	090R 240 FPM
2,5	± 0,25	090R 250	2,5	± 0,2	090R 250 FPM
2,62	± 0,25	090R 262	2,62	± 0,25	090R 262 FPM
2,7	± 0,25	090R 270	2,7	± 0,25	090R 270 FPM
3	± 0,25	090R 300	3	± 0,25	090R 300 FPM
3,2	± 0,35	090R 320	3,2	± 0,3	090R 320 FPM
3,5	± 0,35	090R 350	3,5	± 0,3	090R 350 FPM
3,53	± 0,35	090R 353	3,53	± 0,3	090R 353 FPM
4	± 0,35	090R 400	4	± 0,3	090R 400 FPM
4,5	± 0,4	090R 450	4,5	± 0,3	090R 450 FPM
4,7	± 0,4	090R 470	4,7	± 0,3	090R 470 FPM
5	± 0,4	090R 500	5	± 0,3	090R 500 FPM
5,34	± 0,4	090R 534	5,34	± 0,3	090R 534 FPM
5,7	± 0,4	090R 570	5,7	± 0,3	090R 570 FPM
6	± 0,4	090R 600	6	± 0,3	090R 600 FPM
6,4	± 0,55	090R 640	6,4	± 0,4	090R 640 FPM
6,5	± 0,55	090R 650	6,5	± 0,4	090R 650 FPM
7	± 0,55	090R 700	7	± 0,4	090R 700 FPM
7,5	± 0,55	090R 750	7,5	± 0,4	090R 750 FPM
8	± 0,55	090R 800	8	± 0,4	090R 800 FPM
8,4	± 0,55	090R 840	8,4	± 0,4	090R 840 FPM
8,5	± 0,55	090R 850	8,5	± 0,4	090R 850 FPM
9	± 0,55	090R 900	9	± 0,4	090R 900 FPM
9,5	± 0,55	090R 950	9,5	± 0,4	090R 950 FPM
10	± 0,55	090R 1000	10	± 0,4	090R 1000 FPM
11	± 0,65	090R 1100	11	± 0,5	090R 1100 FPM
12	± 0,65	090R 1200	12	± 0,5	090R 1200 FPM
12,5	± 0,65	090R 1250	12,5	± 0,5	090R 1250 FPM
12,7	± 0,65	090R 1270	12,7	± 0,5	090R 1270 FPM
13	± 0,65	090R 1300	13	± 0,5	090R 1300 FPM
14	± 0,65	090R 1400	14	± 0,5	090R 1400 FPM
15	± 0,65	090R 1500	15	± 0,5	090R 1500 FPM
16	± 0,65	090R 1600	16	± 0,5	090R 1600 FPM
17	± 0,85	090R 1700	17	± 1	090R 1700 FPM
18	± 0,85	090R 1800	18	± 1	090R 1800 FPM
19	± 0,85	090R 1900	19	± 1	090R 1900 FPM
20	± 0,85	090R 2000	20	± 1	090R 2000 FPM
22	± 0,85	090R 2200	22	± 1	090R 2200 FPM
25	± 1	090R 2500	25	± 1	090R 2500 FPM
30	± 1	090R 3000	30	± 1,3	090R 3000 FPM

Non-stock items. Contact us for delivery times.
For prices and availability: **www.sealtech-business.be**

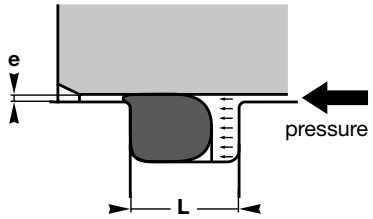


Fig. 156A

EXTRUSION

Extrusion problems appear when the clearance **gap e** between the sealing surface and the groove corners is too large. If the pressure exceeds the deformation limit of the O-ring, he will be forced into this small gap during each pressure cycle.

The O-ring will be damaged by the sharp edges and will break after a while (**Fig. 156A**).

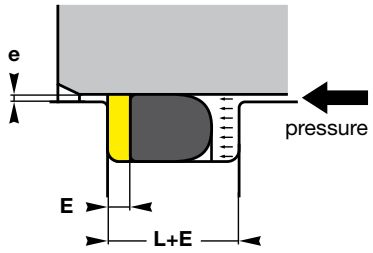


Fig. 156B

To prevent the O-ring from extrusion, a back-up ring (also called anti-extrusion ring) can be placed into the groove at the low-pressure side of the O-ring. In this case, the groove has to be enlarged by **value E** equal to the thickness of the back-up ring.

Back-up rings are made of materials with better extrusion resistance than common elastomers for O-rings (**Fig. 156B**).

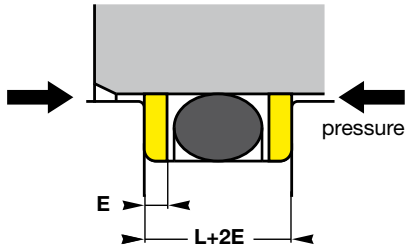


Fig. 156C

In double acting applications two back-up rings are installed, one on each side of the O-ring (**Fig. 156C**).

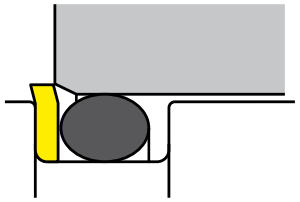


Fig. 156D

A bad determination of the dimensions can have a terrible impact and the mounting of a non-adapted back-up ring can cause following problems:

If the section of the ring is too large, the installation will be difficult or even impossible and the ring will inevitably be damaged (**Fig. 156D**).

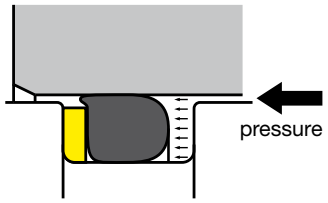


Fig. 156E

If the section of the ring is too small, it makes no sense to install the ring; the extrusion problem will remain (**Fig. 156E**).

PROFILES AND COMPOUNDS

We recommend **endless back-up rings** for internal as well as external grooves.

PTFE is used in applications with **high temperatures** and **special fluids**. For external grooves, the PTFE back-up rings have to be cut to make installation possible.

Although a back-up ring is an easy product, the **choice and the dimensions can be very complex**:

A In case of **replacement of existing back-up rings** during cilinder repair, many different groove depths will be encountered. The initial compression of the corresponding O-ring may vary between 10 and 30%.

Example:
For an O-ring **d**=2,62 mm, the depth of the housring will be:

2,25 mm for the **10PBK**

2,18 mm for the **10BU**

2 mm for the **28ST8** following the ISO groove (see table on page 235)

Therefore, the determination of the dimensions of the existing pieces must be done very carefully, because all dimensions are possible; every **cylinder manufacturer applies different standards**.

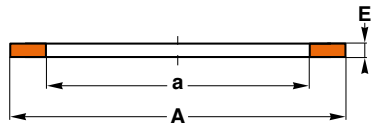
B With regard to **new constructions**, the standard product range of back-up ring manufacturers is rather limited. The same rings are used for static and dynamic sealing.

Example: our rings **10PBK**, **10BR**, **10BU** and **10MBK** are often used as a static seal, but in fact they are tend to be used for dynamic applications. The use of these back-up rings for static applications may be justified for economical reasons, but it is in contradiction with the groove depths we recommend.

This is the reason why we developed **our 28ST8 ring**. This one offers an **optimal technical solution** and moreover, the corresponding groove dimensions meet the requirements of the standard ISO 3601 (see table on page 195).

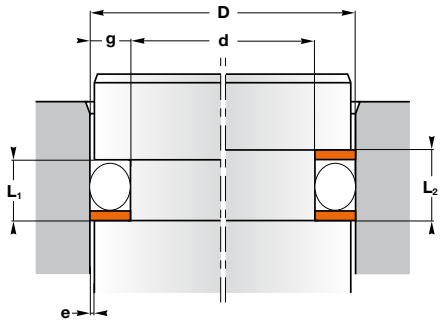
The choice of a back-up ring is completely different when intended to be introduced in a new construction or for replacement: **the table below will help you to make your choice**.

		-30°C to +110°C hydraulic oil	-200°C to +260°C special fluids
A REPLACEMENT OF EXISTING BACK-UP RINGS REPAIR without adaptation of the groove	The dimensions of the groove or the ring correspond to our standard back-up rings	**10BU 10MBK 10PBK**	**10BR**
	The dimensions of the groove or the ring do not correspond to our standard back-up rings	**28ST8 PU30** according to the existing groove dimensions	**28ST8 PT01** according to the existing groove dimensions
B NEW CONSTRUCTION or IMPROVEMENT of the actual solution	**STATIC SEALING**	**28ST8 PU30** according to the table page 235	**28ST8 PT01** according to the table page 235
	DYNAMIC SEALING	**10PBK**	**10BR**



10MBK

For O-rings according to SMS1586.



Machining of housings: see page 81 and table 158

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 158 (dynamic sealing)

O-ring Cs	g	L1	L2	E
2,4	2	4,6	5,9	1,3
3	2,5	5,4	6,7	1,3
5,7	5	8,9	10,6	1,7

10MBK back-up rings are used in conjunction with O-rings for both static and dynamic sealing applications. They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

If pressure arises on only one side of the O-ring, it will suffice to fit one anti-extrusion ring on the side not exposed to pressure.

For double-acting applications, **two back-up rings** should be used, one on each side of the O-ring.

10MBK back-up rings are flat continuous anti-extrusion rings without a cut or a spiral shape that could cause system failure under extreme loads. They are made out of an elastic thermoplastic polyester resin which allows them to be stretched over pistons for easy installation and without any auxiliaries.

Operating conditions — see page 8

Pressure	≤ 50 MPa
Temperature	-30°C to 110°C
Fluids	mineral oil, HFA, HFB

Materials — see pages 10-19

TPE polyester 55 Sh D

Assembly — see pages 54-59

In one-piece housings

Advantages

Easy assembly

Endless for internal and external housings

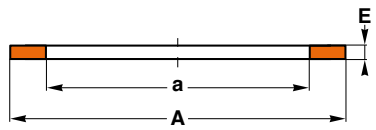
Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

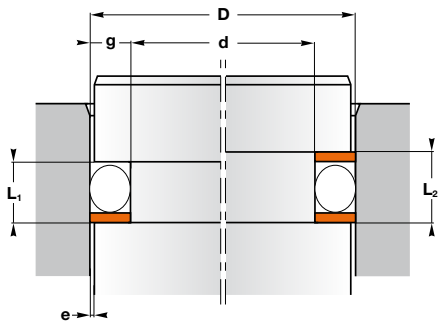
O-ring cross section	O-ring	D	d	E	Reference
2,4	3,3 x 2,4	8	4	1,3	10MBK 4 8
	5,3 x 2,4	10	6	1,3	10MBK 6 10
	6,3 x 2,4	11	7	1,3	10MBK 7 11
	7,3 x 2,4	12	8	1,3	10MBK 8 12
	8,3 x 2,4	13	9	1,3	10MBK 9 13
	9,3 x 2,4	14	10	1,3	10MBK 10 14
	10,3 x 2,4	15	11	1,3	10MBK 11 15
	11,3 x 2,4	16	12	1,3	10MBK 12 16
	12,3 x 2,4	17	13	1,3	10MBK 13 17
	13,3 x 2,4	18	14	1,3	10MBK 14 18
	14,3 x 2,4	19	15	1,3	10MBK 15 19
	15,3 x 2,4	20	16	1,3	10MBK 16 20
	16,3 x 2,4	21	17	1,3	10MBK 17 21
	17,3 x 2,4	22	18	1,3	10MBK 18 22
3	19,2 x 3	25	20	1,3	10MBK 20 25
	22,2 x 3	28	23	1,3	10MBK 23 28
	24,2 x 3	30	25	1,3	10MBK 25 30
	26,2 x 3	32	27	1,3	10MBK 27 32
	29,2 x 3	35	30	1,3	10MBK 30 35
	32,2 x 3	38	33	1,3	10MBK 33 38
	34,2 x 3	40	35	1,3	10MBK 35 40
	35,2 x 3	41	36	1,3	10MBK 36 41
	36,2 x 3	42	37	1,3	10MBK 37 42
	39,2 x 3	45	40	1,3	10MBK 40 45
	44,2 x 3	50	45	1,3	10MBK 45 50
	49,5 x 3	55	50	1,3	10MBK 50 55
	53 x 3	59	54	1,4	10MBK 54 59
	54,5 x 3	60	55	1,3	10MBK 55 60
	57,2 x 3	63	58	1,3	10MBK 58 63
	59,5 x 3	65	60	1,3	10MBK 60 65
	62,2 x 3	68	63	1,3	10MBK 63 68
	64,5 x 3	70	65	1,3	10MBK 65 70
	65 x 3	71	66	1,5	10MBK 66 71
	69 x 3	74	69	1,3	10MBK 69 74
	69,5 x 3	75	70	1,3	10MBK 70 75
	74,5 x 3	80	75	1,3	10MBK 75 80
	78 x 3	84	79	1,3	10MBK 79 84
	79,5 x 3	85	80	1,3	10MBK 80 85
	84,5 x 3	90	85	1,3	10MBK 85 90
	89,5 x 3	95	90	1,3	10MBK 90 95
	94,5 x 3	100	95	1,3	10MBK 95100

O-ring cross section	O-ring	D	d	E	Reference
3	99,5 x 3	105	100	1,3	10MBK 100105
	104,5 x 3	110	105	1,3	10MBK 105110
	109,5 x 3	115	110	1,3	10MBK 110115
	114,5 x 3	120	115	1,3	10MBK 115120
	119,5 x 3	125	120	1,3	10MBK 120125
	124,5 x 3	130	125	1,3	10MBK 125130
	129,5 x 3	135	130	1,3	10MBK 130135
	134,5 x 3	140	135	1,3	10MBK 135140
	144,5 x 3	150	145	1,3	10MBK 145150
3,5	63 x 3,5	70	64	1,4	10MBK 64 70
	68 x 3,5	75	69	1,5	10MBK 69 75
	73 x 3,5	80	74	1,5	10MBK 74 80
4	74 X 4	81	74,6	1,7	10MBK 74 81
4,5	59 X 4,5	67	60	1,5	10MBK 60 67
	69 X 4,5	77	70	1,5	10MBK 70 77
	79 X 4,5	87	80	1,5	10MBK 80 87
5,5	141 X 5,5	151	142	1,8	10MBK 142151
	151 X 5,5	161	152	1,8	10MBK 152161
5,7	39,2 x 5,7	50	40	1,7	10MBK 40 50
	44,2 x 5,7	55	45	1,7	10MBK 45 55
	49,2 x 5,7	60	50	1,7	10MBK 50 60
	52,2 x 5,7	63	53	1,7	10MBK 53 63
	54,2 x 5,7	65	55	1,7	10MBK 55 65
	59,2 x 5,7	70	60	1,7	10MBK 60 70
	64,2 x 5,7	75	65	1,7	10MBK 65 75
	69,2 x 5,7	80	70	1,7	10MBK 70 80
	71,2 x 5,7	82,5	72,5	1,7	10MBK 72 82
	74,2 x 5,7	85	75	1,7	10MBK 75 85
	77,2 x 5,7	88	78	1,7	10MBK 78 88
	79,2 x 5,7	90	80	1,7	10MBK 80 90
	84,2 x 5,7	95	85	1,7	10MBK 85 95
	89,2 x 5,7	100	90	1,7	10MBK 90100
	94,2 x 5,7	105	95	1,7	10MBK 95105
	99,2 x 5,7	110	100	1,7	10MBK 100110
	104,2 x 5,7	115	105	1,7	10MBK 105115
	109,2 x 5,7	120	110	1,7	10MBK 110120
	114,2 x 5,7	125	115	1,7	10MBK 115125
	119,2 x 5,7	130	120	1,7	10MBK 120130
	124,2 x 5,7	135	125	1,7	10MBK 125135



10MBK

For O-rings according to SMS1586.



Machining of housings: see page 81 and table 160

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 160 (dynamic sealing)

O-ring Cs	g	L1	L2	E
2,4	2	4,6	5,9	1,3
3	2,5	5,4	6,7	1,3
5,7	5	8,9	10,6	1,7

10MBK back-up rings are used in conjunction with O-rings for both static and dynamic sealing applications. They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

If pressure arises on only one side of the O-ring, it will suffice to fit one anti-extrusion ring on the side not exposed to pressure.

For double-acting applications, **two back-up rings** should be used, one on each side of the O-ring.

10MBK back-up rings are flat continuous anti-extrusion rings without a cut or a spiral shape that could cause system failure under extreme loads. They are made out of an elastic thermoplastic polyester resin which allows them to be stretched over pistons for easy installation and without any auxiliaries.

Operating conditions — see page 8

Pressure	≤ 50 MPa
Temperature	-30°C to 110°C
Fluids	mineral oil, HFA, HFB

Materials — see pages 10-19

TPE polyester 55 Sh D

Assembly — see pages 54-59

In one-piece housings

Advantages

Easy assembly

Endless for internal and external housings

Please contact us for applications approaching maximum values.

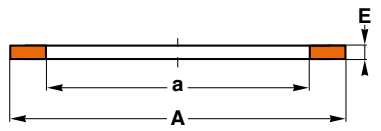
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

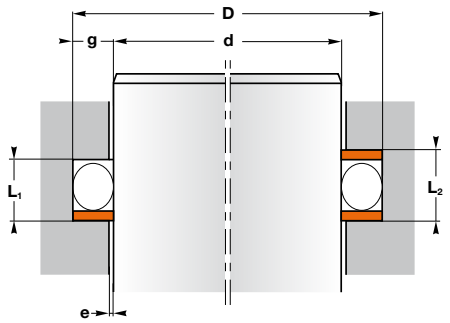
O-ring cross section	O-ring	D	d	E	Reference
5,7	129,2 x 5,7	140	130	1,7	**10MBK 130140**
	134,2 x 5,7	145	135	1,7	**10MBK 135145**
	139,2 x 5,7	150	140	1,7	**10MBK 140150**
	144,2 x 5,7	155	145	1,7	**10MBK 145155**
	149,2 x 5,7	160	150	1,7	**10MBK 150160**
	154,2 x 5,7	165	155	1,7	**10MBK 155165**
	159,2 x 5,7	170	160	1,7	**10MBK 160170**
	164,2 x 5,7	175	165	1,7	**10MBK 165175**
	169,2 x 5,7	180	170	1,7	**10MBK 170180**
	174,2 x 5,7	185	175	1,7	**10MBK 175185**
	179,2 x 5,7	190	180	1,7	**10MBK 180190**
	184,2 x 5,7	195	185	1,7	**10MBK 185195**
	189,2 x 5,7	200	190	1,7	**10MBK 190200**
	194,2 x 5,7	205	195	1,7	**10MBK 195205**
	199,2 x 5,7	210	200	1,7	**10MBK 200210**
	209,2 x 5,7	220	210	1,7	**10MBK 210220**
	219,2 x 5,7	230	220	1,7	**10MBK 220230**
	229,2 x 5,7	240	230	1,7	**10MBK 230240**
	239,2 x 5,7	250	240	1,7	**10MBK 240250**
	249,2 x 5,7	260	250	1,7	**10MBK 250260**

10MBK seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**



10MBK.../INT

For O-rings according to SMS1586.



Machining of housings: see page 81 and table 162

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 162 (dynamic sealing)

O-ring Cs	g	L1	L2	E
2,4	2	4,6	5,9	1,3
3	2,5	5,4	6,7	1,3
5,7	5	8,9	10,6	1,7

10MBK.../INT back-up rings are used in conjunction with O-rings for both static and dynamic sealing applications. They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

If pressure arises on only one side of the O-ring, it will suffice to fit one anti-extrusion ring on the side not exposed to pressure.

For double-acting applications, **two back-up rings** should be used, one on each side of the O-ring.

10MBK.../INT back-up rings are flat continuous anti-extrusion rings without a cut or a spiral shape that could cause system failure under extreme loads. They are made out of an elastic thermoplastic polyester resin which allows them to be stretched over pistons for easy installation and without any auxiliaries.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-30°C to 110°C
Fluids	mineral oil, HFA, HFB
Materials	**see pages 10-19**
TPE	polyester 55 Sh D
Assembly	**see pages 54-59**
In one-piece housings	
Advantages	
Easy assembly	
Endless for internal and external housings	

Please contact us for applications approaching maximum values.

More information

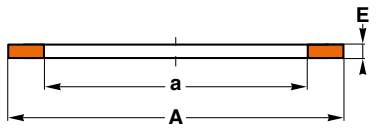
On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	d	D	E	Reference
2,4	3,3 x 2,4	4	8	1,3	**10MBK 4 8**
	5,3 x 2,4	6	10	1,3	**10MBK 6 10**
	6,3 x 2,4	7	11	1,3	**10MBK 7 11**
	7,3 x 2,4	8	12	1,3	**10MBK 8 12**
	8,3 x 2,4	9	13	1,3	**10MBK 9 13**
	9,3 x 2,4	10	14	1,3	**10MBK 10 14**
	10,3 x 2,4	11	15	1,3	**10MBK 11 15**
	11,3 x 2,4	12	16	1,3	**10MBK 12 16**
	12,3 x 2,4	13	17	1,3	**10MBK 13 17**
	13,3 x 2,4	14	18	1,3	**10MBK 14 18**
	14,3 x 2,4	15	19	1,3	**10MBK 15 19**
	15,3 x 2,4	16	20	1,3	**10MBK 16 20**
	16,3 x 2,4	17	21	1,3	**10MBK 17 21**
	17,3 x 2,4	18	22	1,3	**10MBK 18 22**
3	19,2 x 3	20	25	1,3	**10MBK 20 25**
	22,2 x 3	23	28	1,3	**10MBK 23 28**
	24,2 x 3	25	30	1,3	**10MBK 25 30**
	26,2 x 3	27	32	1,3	**10MBK 27 32**
	29,2 x 3	30	35	1,3	**10MBK 30 35**
	32,2 x 3	33	38	1,3	**10MBK 33 38**
	34,2 x 3	35	40	1,3	**10MBK 35 40**
	35,2 x 3	36	41	1,3	**10MBK 36 41**
	36,2 x 3	37	42	1,3	**10MBK 37 42**
	39,2 x 3	40	45	1,3	**10MBK 40 45**
	44,2 x 3	45	50	1,3	**10MBK 45 50**
	49,5 x 3	50	55	1,3	**10MBK 50 55**
	53 x 3	54	59	1,4	**10MBK 54 59**
	54,5 x 3	55	60	1,3	**10MBK 55 60**
	57,2 x 3	58	63	1,3	**10MBK 58 63**
	59,5 x 3	60	65	1,3	**10MBK 60 65**
	62,2 x 3	63	68	1,3	**10MBK 63 68**
	64,5 x 3	65	70	1,3	**10MBK 65 70**
	65 x 3	66	71	1,5	**10MBK 66 71**
	69 x 3	69	74	1,3	**10MBK 69 74**
	69,5 x 3	70	75	1,3	**10MBK 70 75**
	74,5 x 3	75	80	1,3	**10MBK 75 80**
	78 x 3	79	84	1,3	**10MBK 79 84**
	79,5 x 3	80	85	1,3	**10MBK 80 85**
	84,5 x 3	85	90	1,3	**10MBK 85 90**
	89,5 x 3	90	95	1,3	**10MBK 90 95**
	94,5 x 3	95	100	1,3	**10MBK 95100**

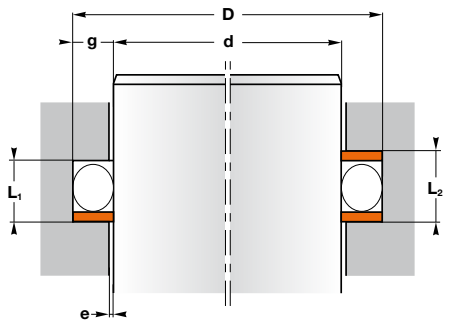
O-ring cross section	O-ring	d	D	E	Reference
3	99,5 x 3	100	105	1,3	**10MBK 100105**
	104,5 x 3	105	110	1,3	**10MBK 105110**
	109,5 x 3	110	115	1,3	**10MBK 110115**
	114,5 x 3	115	120	1,3	**10MBK 115120**
	119,5 x 3	120	125	1,3	**10MBK 120125**
	124,5 x 3	125	130	1,3	**10MBK 125130**
	129,5 x 3	130	135	1,3	**10MBK 130135**
	134,5 x 3	135	140	1,3	**10MBK 135140**
	144,5 x 3	145	150	1,3	**10MBK 145150**
3,5	63 x 3,5	64	70	1,4	**10MBK 64 70**
	68 x 3,5	69	75	1,5	**10MBK 69 75**
	73 x 3,5	74	80	1,5	**10MBK 74 80**
4	74 X 4	74,6	81	1,7	**10MBK 74 81**
	92 x 4	92,5	99,1	1,4	**10MBK 92 99**
4,5	59 X 4,5	60	67	1,5	**10MBK 60 67**
	69 X 4,5	70	77	1,5	**10MBK 70 77**
	79 X 4,5	80	87	1,5	**10MBK 80 87**
5,5	141 X 5,5	142	151	1,8	**10MBK 142151**
	151 X 5,5	152	161	1,8	**10MBK 152161**
5,7	39,2 x 5,7	40	50	1,7	**10MBK 40 50**
	44,2 x 5,7	45	55	1,7	**10MBK 45 55**
	49,2 x 5,7	50	60	1,7	**10MBK 50 60**
	52,2 x 5,7	53	63	1,7	**10MBK 53 63**
	54,2 x 5,7	55	65	1,7	**10MBK 55 65**
	59,2 x 5,7	60	70	1,7	**10MBK 60 70**
	64,2 x 5,7	65	75	1,7	**10MBK 65 75**
	69,2 x 5,7	70	80	1,7	**10MBK 70 80**
	71,2 x 5,7	72,5	82,5	1,7	**10MBK 72 82**
	74,2 x 5,7	75	85	1,7	**10MBK 75 85**
	77,2 x 5,7	78	88	1,7	**10MBK 78 88**
	79,2 x 5,7	80	90	1,7	**10MBK 80 90**
	84,2 x 5,7	85	95	1,7	**10MBK 85 95**
	89,2 x 5,7	90	100	1,7	**10MBK 90100**
	94,2 x 5,7	95	105	1,7	**10MBK 95105**
	99,2 x 5,7	100	110	1,7	**10MBK 100110**
	104,2 x 5,7	105	115	1,7	**10MBK 105115**
	109,2 x 5,7	110	120	1,7	**10MBK 110120**
	114,2 x 5,7	115	125	1,7	**10MBK 115125**
	119,2 x 5,7	120	130	1,7	**10MBK 120130**
	124,2 x 5,7	125	135	1,7	**10MBK 125135**

10MBK.../INT seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**



10MBK.../INT

For O-rings according to SMS1586.



Machining of housings: see page 81 and table 164

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 164 (dynamic sealing)

O-ring Cs	g	L1	L2	E
2,4	2	4,6	5,9	1,3
3	2,5	5,4	6,7	1,3
5,7	5	8,9	10,6	1,7

10MBK.../INT back-up rings are used in conjunction with O-rings for both static and dynamic sealing applications. They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

If pressure arises on only one side of the O-ring, it will suffice to fit one anti-extrusion ring on the side not exposed to pressure.

For double-acting applications, **two back-up rings** should be used, one on each side of the O-ring.

10MBK.../INT back-up rings are flat continuous anti-extrusion rings without a cut or a spiral shape that could cause system failure under extreme loads. They are made out of an elastic thermoplastic polyester resin which allows them to be stretched over pistons for easy installation and without any auxiliaries.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-30°C to 110°C
Fluids	mineral oil, HFA, HFB
Materials	**see pages 10-19**
TPE	polyester 55 Sh D
Assembly	**see pages 54-59**
In one-piece housings	
Advantages	
Easy assembly	
Endless for internal and external housings	

Please contact us for applications approaching maximum values.

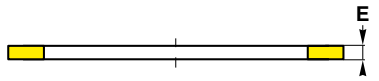
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	d	D	E	Reference
5,7	129,2 x 5,7	130	140	1,7	**10MBK 130140**
	134,2 x 5,7	135	145	1,7	**10MBK 135145**
	139,2 x 5,7	140	150	1,7	**10MBK 140150**
	144,2 x 5,7	145	155	1,7	**10MBK 145155**
	149,2 x 5,7	150	160	1,7	**10MBK 150160**
	154,2 x 5,7	155	165	1,7	**10MBK 155165**
	159,2 x 5,7	160	170	1,7	**10MBK 160170**
	164,2 x 5,7	165	175	1,7	**10MBK 165175**
	169,2 x 5,7	170	180	1,7	**10MBK 170180**
	174,2 x 5,7	175	185	1,7	**10MBK 175185**
	179,2 x 5,7	180	190	1,7	**10MBK 180190**
	184,2 x 5,7	185	195	1,7	**10MBK 185195**
	189,2 x 5,7	190	200	1,7	**10MBK 190200**
	194,2 x 5,7	195	205	1,7	**10MBK 195205**
	199,2 x 5,7	200	210	1,7	**10MBK 200210**
	209,2 x 5,7	210	220	1,7	**10MBK 210220**
	219,2 x 5,7	220	230	1,7	**10MBK 220230**
	229,2 x 5,7	230	240	1,7	**10MBK 230240**
	239,2 x 5,7	240	250	1,7	**10MBK 240250**
	249,2 x 5,7	250	260	1,7	**10MBK 250260**

10MBK.../INT seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

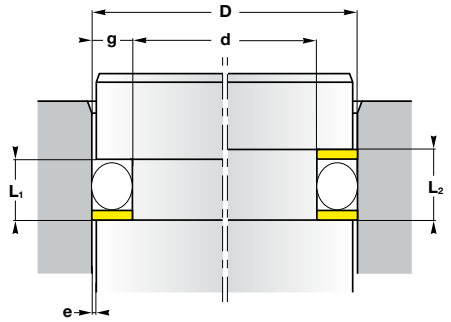


10PBK

Example of item code

10PBK 218

Profile AS/BS norm



Machining of housings: see page 81 and table 166

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 166 (dynamic sealing)

O-ring Cs	g	L1	L2	E
1,78	1,55	3,8	5,2	1,4
2,62	2,25	5	6,4	1,4
3,53	3,1	6,2	7,6	1,4
5,34	4,7	8,8	10,5	1,7
7	6,1	12	14,5	2,5

10PBK back-up rings are used in conjunction with O-rings for both static and dynamic sealing applications. They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

If pressure arises on only one side of the O-ring, it will suffice to fit one anti-extrusion ring on the side not exposed to pressure.

For double-acting applications, **two back-up rings** should be used, one on each side of the O-ring.

10PBK back-up rings are flat continuous anti-extrusion rings without a cut or a spiral shape that could cause system failure under extreme loads. They are made out of an elastic thermoplastic polyester resin which allows them to be stretched over pistons for easy installation and without any auxiliaries.

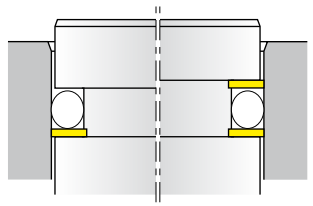
Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-30°C to 110°C
Fluids	mineral oil, HFA, HFB
Materials	**see pages 10-19**
TPE	polyester 55 Sh D
Assembly	**see pages 54-59**
In one-piece housings	

Advantages

Easy assembly

Endless for internal and external housings

Please contact us for applications approaching maximum values.



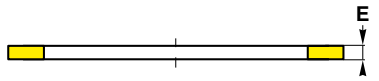
Advise: for static sealing, with machining of housings following the two drawings above, it is possible to use 10PBK back-up rings respecting the DIN/ISO norm (static sealing).

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	D	d	Reference
1,78	6,07 x 1,78	10	6,9	**10PBK 010/610**
	7,65 x 1,78	11	7,9	**10PBK 011**
	8,73 x 1,78	12	8,9	**10PBK 611**
	9,25 x 1,78	13	9,9	**10PBK 012**
	10,82 x 1,78	14	10,9	**10PBK 013**
	12,42 x 1,78	16	12,9	**10PBK 014**
	14,0 x 1,78	18	14,9	**10PBK 015**
	15,6 x 1,78	19	15,9	**10PBK 016**
	17,17 x 1,78	21	17,9	**10PBK 017**
	20,35 x 1,78	24	20,9	**10PBK 019**
	21,95 x 1,78	26	22,9	**10PBK 020**
	28,3 x 1,78	32	28,9	**10PBK 024**
	29,87 x 1,78	33	29,9	**10PBK 025**
	31,47 x 1,78	35	31,9	**10PBK 026**
	33,05 x 1,78	37	33,9	**10PBK 027**
	37,82 x 1,78	41	37,9	**10PBK 029**
	41,0 x 1,78	45	41,9	**10PBK 030**
	47,35 x 1,78	51	47,9	**10PBK 032**
2,62	7,6 x 2,62	13	8,5	**10PBK 109**
	9,19 x 2,62	15	10,5	**10PBK 110/613**
	10,77 x 2,62	16	11,5	**10PBK 111**
	11,91 x 2,62	17	12,5	**10PBK 614**
	12,37 x 2,62	18	13,5	**10PBK 112**
	13,94 x 2,62	19	14,5	**10PBK 113**
	15,08 x 2,62	20	15,5	**10PBK 616**
	15,54 x 2,62	21	16,5	**10PBK 114/809**
	17,12 x 2,62	22	17,5	**10PBK 115**
	17,86 x 2,62	23	18,5	**10PBK 617**
	18,72 x 2,62	24	19,5	**10PBK 116**
	20,3 x 2,62	25	20,5	**10PBK 117**
	20,64 x 2,62	26	21,5	**10PBK 812**
	21,89 x 2,62	27	22,5	**10PBK 118/813**
	23,47 x 2,62	29	24,5	**10PBK 119/814**
	25,07 x 2,62	30	25,5	**10PBK 120**
	26,64 x 2,62	32	27,5	**10PBK 121**
	28,24 x 2,62	33	28,5	**10PBK 122**
	29,82 x 2,62	35	30,5	**10PBK 123**
	31,42 x 2,62	37	32,5	**10PBK 124**
	32,99 x 2,62	38	33,5	**10PBK 125**
	34,57 x 2,62	40	35,5	**10PBK 126**
	36,17 x 2,62	41	36,5	**10PBK 127**
	37,77 x 2,62	43	38,5	**10PBK 128**

O-ring cross section	O-ring	D	d	Reference
2,62	39,34 x 2,62	45	40,5	**10PBK 129**
	40,94 x 2,62	46	41,5	**10PBK 130**
	42,52 x 2,62	48	43,5	**10PBK 131**
	44,12 x 2,62	49	44,5	**10PBK 132**
	45,69 x 2,62	51	46,5	**10PBK 133**
	47,29 x 2,62	53	48,5	**10PBK 134**
	48,9 x 2,62	54	48,5	**10PBK 135**
	50,47 x 2,62	56	51,5	**10PBK 136**
	52,07 x 2,62	57	52,5	**10PBK 137**
	53,64 x 2,62	59	54,5	**10PBK 138**
	55,25 x 2,62	61	56,5	**10PBK 139**
	56,82 x 2,62	62	57,5	**10PBK 140**
	58,42 x 2,62	64	59,5	**10PBK 141**
	59,99 x 2,62	65	60,5	**10PBK 142**
	61,6 x 2,62	67	62,5	**10PBK 143**
	63,17 x 2,62	68	63,5	**10PBK 144**
	64,77 x 2,62	70	65,5	**10PBK 145**
	66,34 x 2,62	72	67,5	**10PBK 146**
	67,95 x 2,62	73	68,5	**10PBK 147**
	69,52 x 2,62	75	70,5	**10PBK 148**
	71,12 x 2,62	76	71,5	**10PBK 149**
	72,69 x 2,62	78	73,5	**10PBK 150**
	82,22 x 2,62	88	83,5	**10PBK 152**
	88,57 x 2,62	94	89,5	**10PBK 153**
	94,92 x 2,62	101	96,5	**10PBK 154**
	113,97 x 2,62	120	115,5	**10PBK 157**
3,53	18,64 x 3,53	26	19,8	**10PBK 210**
	20,22 x 3,53	28	21,8	**10PBK 211**
	21,82 x 3,53	29	22,8	**10PBK 212**
	23,39 x 3,53	30	23,8	**10PBK 213**
	24,99 x 3,53	32	25,8	**10PBK 214**
	25,8 x 3,53	33	26,8	**10PBK 618**
	26,57 x 3,53	34	27,8	**10PBK 215**
	28,17 x 3,53	35	28,8	**10PBK 216**
	29,74 x 3,53	37	30,8	**10PBK 217**
	31,34 x 3,53	38	31,8	**10PBK 218**
	32,92 x 3,53	40	33,8	**10PBK 219**
	34,52 x 3,53	42	35,8	**10PBK 220**
	36,09 x 3,53	43	36,8	**10PBK 221**
	37,69 x 3,53	45	38,8	**10PBK 222**
	39,7 x 3,53	46	39,8	**10PBK 824**

10PBK seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

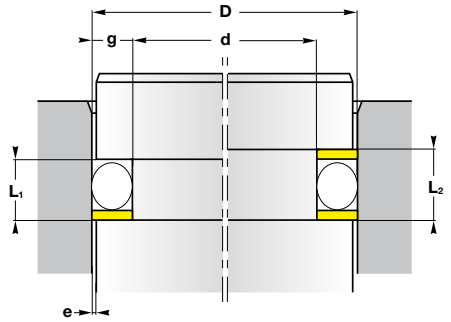


10PBK

Example of item code

10PBK 218

Profile AS/BS norm



Machining of housings: see page 81 and table 168

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 168 (dynamic sealing)

O-ring Cs	g	L1	L2	E
1,78	1,55	3,8	5,2	1,4
2,62	2,25	5	6,4	1,4
3,53	3,1	6,2	7,6	1,4
5,34	4,7	8,8	10,5	1,7
7	6,1	12	14,5	2,5

10PBK back-up rings are used in conjunction with O-rings for both static and dynamic sealing applications. They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

If pressure arises on only one side of the O-ring, it will suffice to fit one anti-extrusion ring on the side not exposed to pressure.

For double-acting applications, **two back-up rings** should be used, one on each side of the O-ring.

10PBK back-up rings are flat continuous anti-extrusion rings without a cut or a spiral shape that could cause system failure under extreme loads. They are made out of an elastic thermoplastic polyester resin which allows them to be stretched over pistons for easy installation and without any auxiliaries.

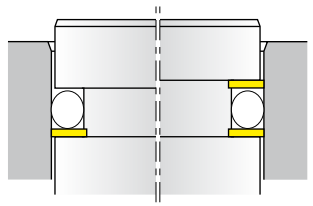
Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-30°C to 110°C
Fluids	mineral oil, HFA, HFB
Materials	**see pages 10-19**
TPE	polyester 55 Sh D
Assembly	**see pages 54-59**
In one-piece housings	

Advantages

Easy assembly

Endless for internal and external housings

Please contact us for applications approaching maximum values.



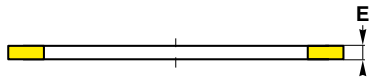
Advise: for static sealing, with machining of housings following the two drawings above, it is possible to use 10PBK back-up rings respecting the DIN/ISO norm (static sealing).

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	D	d	Reference
3,53	40,87 x 3,53	48	41,8	**10PBK 223/825**
	42,86 x 3,53	50	43,8	**10PBK 826**
	44,04 x 3,53	51	44,8	**10PBK 224/827**
	46,04 x 3,53	53	46,8	**10PBK 828**
	47,22 x 3,53	54	47,8	**10PBK 225/829**
	49,2 x 3,53	56	49,8	**10PBK 830**
	50,39 x 3,53	58	51,8	**10PBK 226/831**
	52,4 x 3,53	60	53,8	**10PBK 832**
	53,57 x 3,53	61	54,8	**10PBK 227/833**
	55,56 x 3,53	62	55,8	**10PBK 834**
	56,74 x 3,53	64	57,8	**10PBK 228/835**
	58,74 x 3,53	65	58,8	**10PBK 836**
	59,92 x 3,53	67	60,8	**10PBK 229/837**
	61,9 x 3,53	69	62,8	**10PBK 838**
	63,09 x 3,53	70	63,8	**10PBK 230/839**
	65,1 x 3,53	72	65,8	**10PBK 840**
	66,27 x 3,53	73	66,8	**10PBK 231/841**
	68,26 x 3,53	75	68,8	**10PBK 842**
	69,44 x 3,53	77	70,8	**10PBK 232/843**
	71,44 x 3,53	78	71,8	**10PBK 844**
	72,62 x 3,53	80	73,8	**10PBK 233/845**
	74,6 x 3,53	81	74,8	**10PBK 846**
	75,79 x 3,53	83	76,8	**10PBK 234**
	78,97 x 3,53	86	79,8	**10PBK 235**
	82,14 x 3,53	89	82,8	**10PBK 236**
	85,32 x 3,53	92	85,8	**10PBK 237**
	88,49 x 3,53	95	88,8	**10PBK 238**
	91,67 x 3,53	99	92,8	**10PBK 239**
	94,84 x 3,53	102	95,8	**10PBK 240**
	98,02 x 3,53	105	98,8	**10PBK 241**
	101,19 x 3,53	108	101,8	**10PBK 242**
	104,37 x 3,53	111	104,8	**10PBK 243**
	107,54 x 3,53	114	107,8	**10PBK 244**
	110,72 x 3,53	118	111,8	**10PBK 245**
	113,89 x 3,53	121	114,8	**10PBK 246**
	117,07 x 3,53	124	117,8	**10PBK 247**
	120,24 x 3,53	127	120,8	**10PBK 248**
	123,42 x 3,53	130	123,8	**10PBK 249**
	126,59 x 3,53	133	126,8	**10PBK 250**
	129,77 x 3,53	136	129,8	**10PBK 251**
	132,94 x 3,53	140	133,8	**10PBK 252**
	136,12 x 3,53	143	136,8	**10PBK 253**

O-ring cross section	O-ring	D	d	Reference
3,53	139,29 x 3,53	146	139,8	**10PBK 254**
	142,47 x 3,53	149	142,8	**10PBK 255**
	148,82 x 3,53	155	148,8	**10PBK 257**
	151,99 x 3,53	159	152,8	**10PBK 258**
	202,79 x 3,53	210	203,8	**10PBK 266**
	221,84 x 3,53	228	221,8	**10PBK 269**
5,34	37,47 x 5,34	48	38,6	**10PBK 325**
	40,64 x 5,34	52	42,6	**10PBK 326**
	43,82 x 5,34	55	45,6	**10PBK 327**
	46,99 x 5,34	58	48,6	**10PBK 328**
	50,17 x 5,34	61	51,6	**10PBK 329**
	53,34 x 5,34	64	54,6	**10PBK 330**
	56,52 x 5,34	68	58,6	**10PBK 331**
	59,69 x 5,34	70	60,6	**10PBK 332**
	62,87 x 5,34	73	63,6	**10PBK 333**
	66,04 x 5,34	77	67,6	**10PBK 334**
	69,22 x 5,34	80	70,6	**10PBK 335**
	72,39 x 5,34	83	73,6	**10PBK 336**
	74,63 x 5,34	85	75,6	**10PBK 619**
	75,57 x 5,34	86	76,6	**10PBK 337**
	78,74 x 5,34	90	80,6	**10PBK 338/620**
	81,92 x 5,34	92	82,6	**10PBK 339**
	85,09 x 5,34	95	85,6	**10PBK 340**
	88,27 x 5,34	98	88,6	**10PBK 341**
	89,69 x 5,34	100	90,6	**10PBK 621**
	91,44 x 5,34	102	92,6	**10PBK 342**
	94,62 x 5,34	105	95,6	**10PBK 343**
	97,79 x 5,34	108	98,6	**10PBK 344**
	100,0 x 5,34	110	100,6	**10PBK 622**
	100,97 x 5,34	111	101,6	**10PBK 345**
	104,14 x 5,34	115	105,6	**10PBK 346**
	107,32 x 5,34	118	108,6	**10PBK 347**
	110,49 x 5,34	121	111,6	**10PBK 348/623**
	113,67 x 5,34	125	115,6	**10PBK 349**
	116,84 x 5,34	128	118,6	**10PBK 350/860**
	120,02 x 5,34	132	122,6	**10PBK 351/861**
	123,8 x 5,34	135	125,6	**10PBK 862**
	126,37 x 5,34	137	127,6	**10PBK 353/863**
	129,54 x 5,34	140	130,6	**10PBK 354/864**
	133,35 x 5,34	145	135,6	**10PBK 865**
	135,89 x 5,34	147	137,6	**10PBK 356/866**
	139,07 x 5,34	150	140,6	**10PBK 357/867**

10PBK seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

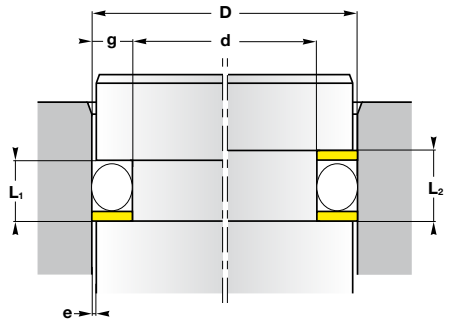


10PBK

Example of item code

10PBK 218

Profile AS/BS norm



Machining of housings: see page 81 and table 170

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 170 (dynamic sealing)

O-ring Cs	g	L1	L2	E
1,78	1,55	3,8	5,2	1,4
2,62	2,25	5	6,4	1,4
3,53	3,1	6,2	7,6	1,4
5,34	4,7	8,8	10,5	1,7
7	6,1	12	14,5	2,5

10PBK back-up rings are used in conjunction with O-rings for both static and dynamic sealing applications. They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

If pressure arises on only one side of the O-ring, it will suffice to fit one anti-extrusion ring on the side not exposed to pressure.

For double-acting applications, **two back-up rings** should be used, one on each side of the O-ring.

10PBK back-up rings are flat continuous anti-extrusion rings without a cut or a spiral shape that could cause system failure under extreme loads. They are made out of an elastic thermoplastic polyester resin which allows them to be stretched over pistons for easy installation and without any auxiliaries.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-30°C to 110°C
Fluids	mineral oil, HFA, HFB

Materials	**see pages 10-19**
TPE	polyester 55 Sh D

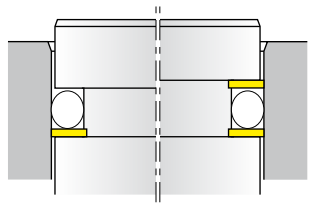
Assembly	**see pages 54-59**
In one-piece housings	

Advantages

Easy assembly

Endless for internal and external housings

Please contact us for applications approaching maximum values.

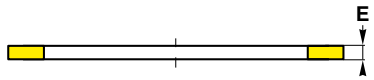


Advise: for static sealing, with machining of housings following the two drawings above, it is possible to use 10PBK back-up rings respecting the DIN/ISO norm (static sealing).

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	D	d	Reference
5,34	142,24 x 5,34	153	143,6	**10PBK 358/868**
	148,59 x 5,34	160	150,6	**10PBK 360/870**
	151,77 x 5,34	163	153,6	**10PBK 361**
	158,12 x 5,34	169	159,6	**10PBK 362**
	164,47 x 5,34	175	165,6	**10PBK 363**
	170,82 x 5,34	182	172,6	**10PBK 364**
	177,17 x 5,34	188	178,6	**10PBK 365**
	189,87 x 5,34	200	190,6	**10PBK 367**
	196,22 x 5,34	207	197,6	**10PBK 368**
	208,92 x 5,34	220	210,6	**10PBK 370**
	221,62 x 5,34	232	222,6	**10PBK 372**
	227,97 x 5,34	239	229,6	**10PBK 373**
7	113,67 x 7	127	114,8	**10PBK 425**
(6,99)	116,84 x 7	130	117,8	**10PBK 426**
	123,2 x 7	137	124,8	**10PBK 428**
	126,37 x 7	140	127,8	**10PBK 429**
	132,72 x 7	146	133,8	**10PBK 431**
	135,89 x 7	150	137,8	**10PBK 432**
	139,07 x 7	153	140,8	**10PBK 433**
	145,42 x 7	160	147,8	**10PBK 435**
	155,6 x 7	170	157,8	**10PBK 872**
	166,7 x 7	180	167,8	**10PBK 628**
	181,0 x 7	195	182,8	**10PBK 880**
	183,52 x 7	197	184,8	**10PBK 442**
	189,87 x 7	203	190,8	**10PBK 443**
	193,7 x 7	207	194,8	**10PBK 884**
	196,22 x 7	210	197,8	**10PBK 444**
	208,92 x 7	222	209,8	**10PBK 674**
	215,27 x 7	230	217,8	**10PBK 446**
	227,97 x 7	242	229,8	**10PBK 447**
	234,32 x 7	250	237,8	**10PBK 678**
	272,4 x 7	286	273,8	**10PBK 684**

10PBK seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

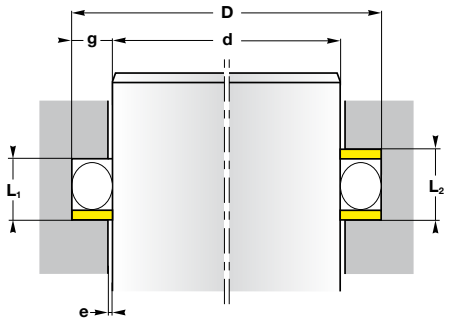


10PBK.../INT

Example of item code

10PBK 218/INT

Profile — AS/BS norm



Machining of housings: see page 81 and table 172

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 172 (dynamic sealing)

O-ring Cs	g	L1	L2	E
1,78	1,55	3,8	5,2	1,4
2,62	2,25	5	6,4	1,4
3,53	3,1	6,2	7,6	1,4
5,34	4,7	8,8	10,5	1,7
7	6,1	12	14,5	2,5

10PBK.../INT back-up rings are used in conjunction with O-rings for both static and dynamic sealing applications. They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

If pressure arises on only one side of the O-ring, it will suffice to fit one anti-extrusion ring on the side not exposed to pressure.

For double-acting applications, **two back-up rings** should be used, one on each side of the O-ring.

10PBK.../INT back-up rings are flat continuous anti-extrusion rings without a cut or a spiral shape that could cause system failure under extreme loads. They are made out of an elastic thermoplastic polyester resin which allows them to be stretched over pistons for easy installation and without any auxiliaries.

Operating conditions — see page 8

Pressure	≤ 50 MPa
Temperature	-30°C to 110°C
Fluids	mineral oil, HFA, HFB

Materials — see pages 10-19

TPE — polyester 55 Sh D

Assembly — see pages 54-59

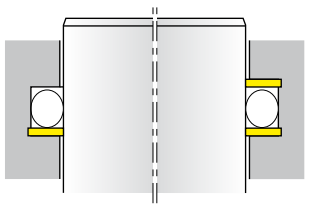
In one-piece housings

Advantages

Easy assembly

Endless for internal and external housings

Please contact us for applications approaching maximum values.

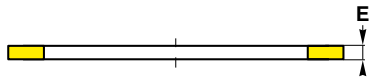


Advise: for static sealing, with machining of housings following the two drawings above, it is possible to use 10PBK.../INT back-up rings respecting the DIN/ISO norm (static sealing).

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	d	D	Reference
1,78	6,07 x 1,78	7	10,1	**10PBK 010/610**
	7,65 x 1,78	8	11,1	**10PBK 011**
	8,73 x 1,78	9	12,1	**10PBK 611**
	9,25 x 1,78	9	12,1	**10PBK 012**
	10,82 x 1,78	11	14,1	**10PBK 013**
	12,42 x 1,78	13	16,1	**10PBK 014**
	14,0 x 1,78	14	17,1	**10PBK 015**
	15,6 x 1,78	16	19,1	**10PBK 016**
	17,17 x 1,78	17	20,1	**10PBK 017**
	20,35 x 1,78	21	24,1	**10PBK 019**
	21,95 x 1,78	22	25,1	**10PBK 020**
	28,3 x 1,78	28	31,1	**10PBK 024**
	29,87 x 1,78	30	33,1	**10PBK 025**
	31,47 x 1,78	32	35,1	**10PBK 026**
	33,05 x 1,78	33	36,1	**10PBK 027**
	37,82 x 1,78	38	41,1	**10PBK 029**
	41,0 x 1,78	41	44,1	**10PBK 030**
	47,35 x 1,78	48	51,1	**10PBK 032**
2,62	7,6 x 2,62	8	12,5	**10PBK 109**
	9,19 x 2,62	10	14,5	**10PBK 110/613**
	10,77 x 2,62	11	15,5	**10PBK 111**
	11,91 x 2,62	12	16,5	**10PBK 614**
	12,37 x 2,62	12,5	17	**10PBK 112**
	13,94 x 2,62	14	18,5	**10PBK 113**
	15,08 x 2,62	15	19,5	**10PBK 616**
	15,54 x 2,62	16	20,5	**10PBK 114/809**
	17,12 x 2,62	17	21,5	**10PBK 115**
	17,86 x 2,62	18	22,5	**10PBK 617**
	18,72 x 2,62	19	23,5	**10PBK 116**
	20,3 x 2,62	20	24,5	**10PBK 117**
	20,64 x 2,62	21	25,5	**10PBK 812**
	21,89 x 2,62	22	26,5	**10PBK 118/813**
	23,47 x 2,62	24	28,5	**10PBK 119/814**
	25,07 x 2,62	25	29,5	**10PBK 120**
	26,64 x 2,62	27	31,5	**10PBK 121**
	28,24 x 2,62	28	32,5	**10PBK 122**
	29,82 x 2,62	30	34,5	**10PBK 123**
	31,42 x 2,62	32	36,5	**10PBK 124**
	32,99 x 2,62	33	37,5	**10PBK 125**
	34,57 x 2,62	35	39,5	**10PBK 126**
	36,17 x 2,62	36	40,5	**10PBK 127**
	37,77 x 2,62	38	42,5	**10PBK 128**
	39,34 x 2,62	40	44,5	**10PBK 129**
	40,94 x 2,62	41	45,5	**10PBK 130**
	42,52 x 2,62	43	47,5	**10PBK 131**
	44,12 x 2,62	44	48,5	**10PBK 132**
	45,69 x 2,62	46	50,5	**10PBK 133**
	47,29 x 2,62	48	52,5	**10PBK 134**
	48,9 x 2,62	49	53,5	**10PBK 135**
	50,47 x 2,62	51	55,5	**10PBK 136**
	52,07 x 2,62	52	56,5	**10PBK 137**
	53,64 x 2,62	54	58,5	**10PBK 138**
	55,25 x 2,62	55	59,5	**10PBK 139**
	56,82 x 2,62	57	61,5	**10PBK 140**
	58,42 x 2,62	59	63,5	**10PBK 141**
	59,99 x 2,62	60	64,5	**10PBK 142**
	61,6 x 2,62	62	66,5	**10PBK 143**
	63,17 x 2,62	63	67,5	**10PBK 144**
	64,77 x 2,62	65	69,5	**10PBK 145**
	66,34 x 2,62	67	71,5	**10PBK 146**
	67,95 x 2,62	68	72,5	**10PBK 147**
	69,52 x 2,62	70	74,5	**10PBK 148**
	71,12 x 2,62	71	75,5	**10PBK 149**
	72,69 x 2,62	73	77,5	**10PBK 150**
	82,22 x 2,62	82	86,5	**10PBK 152**
	88,57 x 2,62	89	93,5	**10PBK 153**
	94,92 x 2,62	95	99,5	**10PBK 154**
	113,97 x 2,62	114	118,5	**10PBK 157**
3,53	18,64 x 3,53	19	25,2	**10PBK 210**
	20,22 x 3,53	20	26,2	**10PBK 211**
	21,82 x 3,53	22	28,2	**10PBK 212**
	23,39 x 3,53	23	29,2	**10PBK 213**
	24,99 x 3,53	25	31,2	**10PBK 214**
	25,8 x 3,53	26	32,2	**10PBK 618**
	26,57 x 3,53	27	33,2	**10PBK 215**
	28,17 x 3,53	28	34,2	**10PBK 216**
	29,74 x 3,53	30	36,2	**10PBK 217**
	31,34 x 3,53	31	37,2	**10PBK 218**
	32,92 x 3,53	33	39,2	**10PBK 219**
	34,52 x 3,53	35	41,2	**10PBK 220**
	36,09 x 3,53	36	42,2	**10PBK 221**
	37,69 x 3,53	38	44,2	**10PBK 222**
	39,7 x 3,53	40	46,2	**10PBK 824**

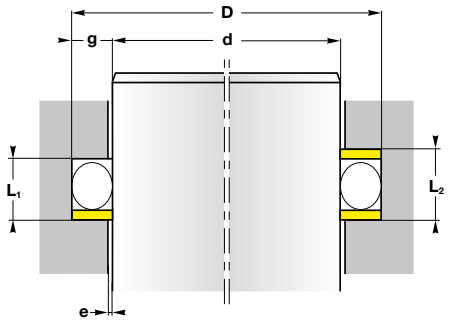
10PBK.../INT seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**



10PBK.../INT

Example of item code

10PBK 218/INT
Profile AS/BS norm



Machining of housings: see page 81 and table 174

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 174 (dynamic sealing)

O-ring Cs	g	L1	L2	E
1,78	1,55	3,8	5,2	1,4
2,62	2,25	5	6,4	1,4
3,53	3,1	6,2	7,6	1,4
5,34	4,7	8,8	10,5	1,7
7	6,1	12	14,5	2,5

10PBK.../INT back-up rings are used in conjunction with O-rings for both static and dynamic sealing applications. They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

If pressure arises on only one side of the O-ring, it will suffice to fit one anti-extrusion ring on the side not exposed to pressure.

For double-acting applications, **two back-up rings** should be used, one on each side of the O-ring.

10PBK.../INT back-up rings are flat continuous anti-extrusion rings without a cut or a spiral shape that could cause system failure under extreme loads. They are made out of an elastic thermoplastic polyester resin which allows them to be stretched over pistons for easy installation and without any auxiliaries.

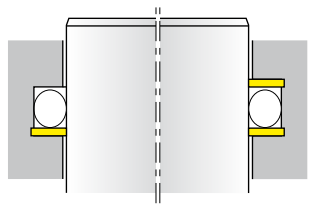
Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-30°C to 110°C
Fluids	mineral oil, HFA, HFB
Materials	**see pages 10-19**
TPE	polyester 55 Sh D
Assembly	**see pages 54-59**
In one-piece housings	

Advantages

Easy assembly

Endless for internal and external housings

Please contact us for applications approaching maximum values.



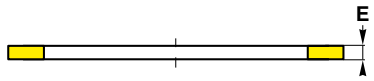
Advise: for static sealing, with machining of housings following the two drawings above, it is possible to use 10PBK.../INT back-up rings respecting the DIN/ISO norm (static sealing).

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	d	D	Reference
3,53	40,87 x 3,53	42	48,2	**10PBK 223/825**
	42,86 x 3,53	43	49,2	**10PBK 826**
	44,04 x 3,53	45	51,2	**10PBK 224/827**
	46,04 x 3,53	46	52,2	**10PBK 828**
	47,22 x 3,53	48	54,2	**10PBK 225/829**
	49,2 x 3,53	49	55,2	**10PBK 830**
	50,39 x 3,53	51	57,2	**10PBK 226/831**
	52,4 x 3,53	52	58,2	**10PBK 832**
	53,57 x 3,53	54	60,2	**10PBK 227/833**
	55,56 x 3,53	56	62,2	**10PBK 834**
	56,74 x 3,53	57	63,2	**10PBK 228/835**
	58,74 x 3,53	59	65,2	**10PBK 836**
	59,92 x 3,53	60	66,2	**10PBK 229/837**
	61,9 x 3,53	62	68,2	**10PBK 838**
	63,09 x 3,53	64	70,2	**10PBK 230/839**
	65,1 x 3,53	65	71,2	**10PBK 840**
	66,27 x 3,53	67	73,2	**10PBK 231/841**
	68,26 x 3,53	68	74,2	**10PBK 842**
	69,44 x 3,53	70	76,2	**10PBK 232/843**
	71,44 x 3,53	72	78,2	**10PBK 844**
	72,62 x 3,53	73	79,2	**10PBK 233/845**
	74,6 x 3,53	75	81,2	**10PBK 846**
	75,79 x 3,53	76	82,2	**10PBK 234**
	78,97 x 3,53	79	85,2	**10PBK 235**
	82,14 x 3,53	82	88,2	**10PBK 236**
	85,32 x 3,53	85	91,2	**10PBK 237**
	88,49 x 3,53	89	95,2	**10PBK 238**
	91,67 x 3,53	92	98,2	**10PBK 239**
	94,84 x 3,53	95	101,2	**10PBK 240**
	98,02 x 3,53	98	104,2	**10PBK 241**
	101,19 x 3,53	101	107,2	**10PBK 242**
	104,37 x 3,53	105	111,2	**10PBK 243**
	107,54 x 3,53	108	114,2	**10PBK 244**
	110,72 x 3,53	111	117,2	**10PBK 245**
	113,89 x 3,53	114	120,2	**10PBK 246**
	117,07 x 3,53	117	123,2	**10PBK 247**
	120,24 x 3,53	120	126,2	**10PBK 248**
	123,42 x 3,53	123	129,2	**10PBK 249**
	126,59 x 3,53	127	133,2	**10PBK 250**
	129,77 x 3,53	130	136,2	**10PBK 251**
	132,94 x 3,53	133	139,2	**10PBK 252**
	136,12 x 3,53	136	142,2	**10PBK 253**

O-ring cross section	O-ring	d	D	Reference
3,53	139,29 x 3,53	140	146,2	**10PBK 254**
	142,47 x 3,53	143	149,2	**10PBK 255**
	148,82 x 3,53	149	155,2	**10PBK 257**
	151,99 x 3,53	152	158,2	**10PBK 258**
	202,79 x 3,53	203	209,2	**10PBK 266**
	221,84 x 3,53	222	228,2	**10PBK 269**
5,34	37,47 x 5,34	38	47,4	**10PBK 325**
	40,64 x 5,34	41	50,4	**10PBK 326**
	43,82 x 5,34	44	53,4	**10PBK 327**
	46,99 x 5,34	47	56,4	**10PBK 328**
	50,17 x 5,34	50	59,4	**10PBK 329**
	53,34 x 5,34	53	62,4	**10PBK 330**
	56,52 x 5,34	57	66,4	**10PBK 331**
	59,69 x 5,34	60	69,4	**10PBK 332**
	62,87 x 5,34	63	72,4	**10PBK 333**
	66,04 x 5,34	66	75,4	**10PBK 334**
	69,22 x 5,34	69	78,4	**10PBK 335**
	72,39 x 5,34	73	82,4	**10PBK 336**
	74,63 x 5,34	75	84,4	**10PBK 619**
	75,57 x 5,34	76	85,4	**10PBK 337**
	78,74 x 5,34	79	88,4	**10PBK 338/620**
	81,92 x 5,34	82	91,4	**10PBK 339**
	85,09 x 5,34	85	94,4	**10PBK 340**
	88,27 x 5,34	88	97,4	**10PBK 341**
	89,69 x 5,34	90	99,4	**10PBK 621**
	91,44 x 5,34	92	101,4	**10PBK 342**
	94,62 x 5,34	95	104,4	**10PBK 343**
	97,79 x 5,34	98	107,4	**10PBK 344**
	100,0 x 5,34	100	109,4	**10PBK 622**
	100,97 x 5,34	101	110,4	**10PBK 345**
	104,14 x 5,34	104	113,4	**10PBK 346**
	107,32 x 5,34	107	116,4	**10PBK 347**
	110,49 x 5,34	110	119,4	**10PBK 348/623**
	113,67 x 5,34	114	123,4	**10PBK 349**
	116,84 x 5,34	117	126,4	**10PBK 350/860**
	120,02 x 5,34	121	130,4	**10PBK 351/861**
	123,8 x 5,34	124	133,4	**10PBK 862**
	126,37 x 5,34	127	136,4	**10PBK 353/863**
	129,54 x 5,34	130	139,4	**10PBK 354/864**
	133,35 x 5,34	134	143,4	**10PBK 865**
	135,89 x 5,34	137	146,4	**10PBK 356/866**
	139,07 x 5,34	140	149,4	**10PBK 357/867**

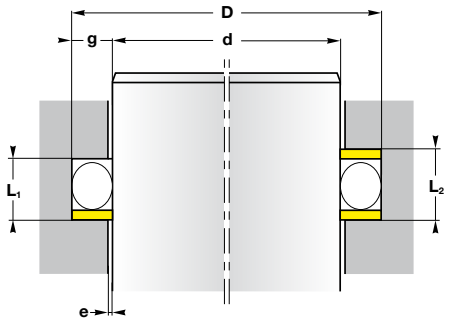
10PBK.../INT seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**



10PBK.../INT

Example of item code

10PBK 218/INT
Profile AS/BS norm



Machining of housings: see page 81 and table 176

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 176 (dynamic sealing)

O-ring Cs	g	L1	L2	E
1,78	1,55	3,8	5,2	1,4
2,62	2,25	5	6,4	1,4
3,53	3,1	6,2	7,6	1,4
5,34	4,7	8,8	10,5	1,7
7	6,1	12	14,5	2,5

10PBK.../INT back-up rings are used in conjunction with O-rings for both static and dynamic sealing applications. They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

If pressure arises on only one side of the O-ring, it will suffice to fit one anti-extrusion ring on the side not exposed to pressure.

For double-acting applications, **two back-up rings** should be used, one on each side of the O-ring.

10PBK.../INT back-up rings are flat continuous anti-extrusion rings without a cut or a spiral shape that could cause system failure under extreme loads. They are made out of an elastic thermoplastic polyester resin which allows them to be stretched over pistons for easy installation and without any auxiliaries.

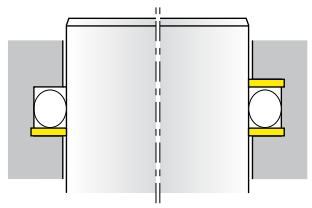
Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-30°C to 110°C
Fluids	mineral oil, HFA, HFB
Materials	**see pages 10-19**
TPE	polyester 55 Sh D
Assembly	**see pages 54-59**
In one-piece housings	

Advantages

Easy assembly

Endless for internal and external housings

Please contact us for applications approaching maximum values.

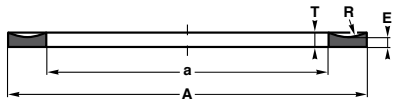


Advise: for static sealing, with machining of housings following the two drawings above, it is possible to use 10PBK.../INT back-up rings respecting the DIN/ISO norm (static sealing).

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	d	D	Reference
5,34	142,24 x 5,34	143	152,4	**10PBK 358/868**
	148,59 x 5,34	150	159,4	**10PBK 360/870**
	151,77 x 5,34	152	161,4	**10PBK 361**
	158,12 x 5,34	158	167,4	**10PBK 362**
	164,47 x 5,34	165	174,4	**10PBK 363**
	170,82 x 5,34	171	180,4	**10PBK 364**
	177,17 x 5,34	178	187,4	**10PBK 365**
	189,87 x 5,34	190	199,4	**10PBK 367**
	196,22 x 5,34	196	205,4	**10PBK 368**
	208,92 x 5,34	209	218,4	**10PBK 370**
	221,62 x 5,34	222	231,4	**10PBK 372**
	227,97 x 5,34	228	237,4	**10PBK 373**
7	113,67 x 7	114	126,2	**10PBK 425**
-6,99	116,84 x 7	117	129,2	**10PBK 426**
	123,2 x 7	123	135,2	**10PBK 428**
	126,37 x 7	126	138,2	**10PBK 429**
	132,72 x 7	133	145,2	**10PBK 431**
	135,89 x 7	136	148,2	**10PBK 432**
	139,07 x 7	139	151,2	**10PBK 433**
	145,42 x 7	145	157,2	**10PBK 435**
	155,6 x 7	156	168,2	**10PBK 872**
	166,7 x 7	167	179,2	**10PBK 628**
	181,0 x 7	180	192,2	**10PBK 880**
	183,52 x 7	184	196,2	**10PBK 442**
	189,87 x 7	190	202,2	**10PBK 443**
	193,7 x 7	194	206,2	**10PBK 884**
	196,22 x 7	196	208,2	**10PBK 444**
	208,92 x 7	210	222,2	**10PBK 674**
	215,27 x 7	215	227,2	**10PBK 446**
	227,97 x 7	230	242,2	**10PBK 447**
	234,32 x 7	235	247,2	**10PBK 678**
	272,4 x 7	273	285,2	**10PBK 684**

10PBK.../INT seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

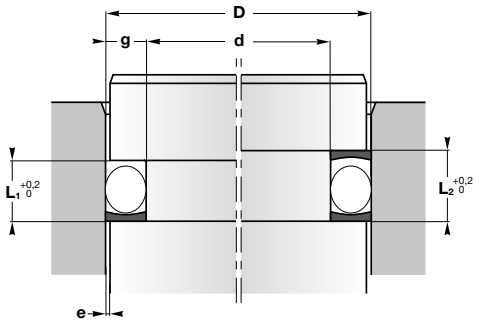


10BU

Example of item code

10BU 218

Profile — AS/BS norm



Machining of housings: see page 81 and table 178

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 178

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials — see pages 10-19

NBR 90 Sh A — colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

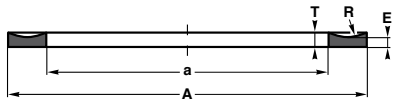
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	A	a	E	D	d	Reference
1,78	1,78 X 1,78	5,14	2,44	1,14	5,2	2,3	10BU 004
	2,57 X 1,78	5,93	3,23	1,14	6	3,1	10BU 005
	2,9 X 1,78	6,26	3,56	1,14	6,5	3,6	10BU 006
	3,68 X 1,78	7,04	4,34	1,14	7	4,1	10BU 007
	4,47 X 1,78	7,83	5,13	1,14	8	5,1	10BU 008
	5,28 X 1,78	8,64	5,94	1,14	9	6,1	10BU 009
	6,07 X 1,78	9,43	6,73	1,14	10	7,1	10BU 010
	7,65 X 1,78	11,01	8,31	1,14	11	8,1	10BU 011
	9,25 X 1,78	12,61	9,91	1,14	13	10,1	10BU 012
	10,82 X 1,78	14,26	11,56	1,14	14	11,1	10BU 013
	12,42 X 1,78	15,86	13,16	1,14	16	13,1	10BU 014
	14,0 X 1,78	17,43	14,73	1,14	17	14,1	10BU 015
	15,6 X 1,78	19,03	16,33	1,14	19	16,1	10BU 016
	17,17 X 1,78	20,61	17,91	1,14	21	18,1	10BU 017
	18,77 X 1,78	22,21	19,51	1,14	22	19,1	10BU 018
	20,35 X 1,78	23,78	21,08	1,14	24	21,1	10BU 019
	21,95 X 1,78	25,38	22,68	1,14	25	22,1	10BU 020
	23,52 X 1,78	26,96	24,26	1,14	27	24,1	10BU 021
	25,12 X 1,78	28,56	25,86	1,14	29	26,1	10BU 022
	26,7 X 1,78	30,13	27,43	1,14	30	27,1	10BU 023
	28,3 X 1,78	31,73	29,03	1,14	32	29,1	10BU 024
	29,87 X 1,78	33,31	30,61	1,14	33	30,1	10BU 025
	31,47 X 1,78	34,91	32,21	1,14	35	32,1	10BU 026
	33,05 X 1,78	36,48	33,78	1,14	36,5	33,6	10BU 027
	34,65 X 1,78	38,08	35,38	1,14	38	35,1	10BU 028
	37,82 X 1,78	41,26	38,56	1,14	41	38,1	10BU 029
	41,0 X 1,78	44,43	41,73	1,14	44,5	41,6	10BU 030
	44,17 X 1,78	47,61	44,91	1,14	48	45,1	10BU 031
	47,35 X 1,78	50,78	48,08	1,14	51	48,1	10BU 032
	50,52 X 1,78	53,96	51,26	1,14	54	51,1	10BU 033
	53,7 X 1,78	57,13	54,43	1,14	57	54,1	10BU 034
	56,87 X 1,78	60,31	57,61	1,14	60	57,1	10BU 035
	60,05 X 1,78	63,48	60,78	1,14	63,5	60,6	10BU 036
	63,22 X 1,78	66,66	63,96	1,14	67	64,1	10BU 037
	66,4 X 1,78	69,83	67,13	1,14	70	67,1	10BU 038
	69,57 X 1,78	73,01	70,31	1,14	73	70,1	10BU 039
	72,75 X 1,78	76,18	73,48	1,14	76	73,1	10BU 040
	75,92 X 1,78	79,36	76,66	1,14	80	77,1	10BU 041
	82,27 X 1,78	85,71	83,01	1,14	86	83,1	10BU 042
	88,62 X 1,78	92,06	89,36	1,14	92	89,1	10BU 043
	94,97 X 1,78	98,41	95,71	1,14	99	96,1	10BU 044
	101,32 X 1,78	104,76	102,06	1,14	105	102,1	10BU 045

10BU seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

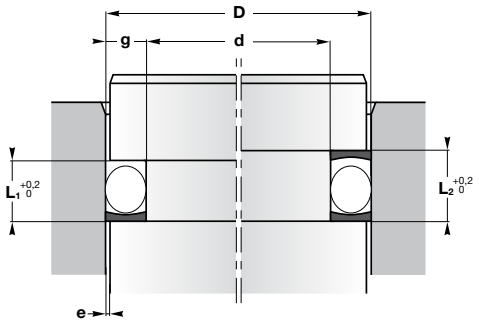


10BU

Example of item code

10BU 218

Profile AS/BS norm



Machining of housings: see page 81 and table 180

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 180

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials see pages 10-19

NBR 90 Sh A	colour: black

Assembly see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

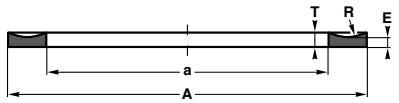
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	A	a	E	D	d	Reference
1,78	107,67 X 1,78	111,11	108,41	1,14	111	108,1	**10BU 046**
	114,02 X 1,78	117,46	114,76	1,14	118	115,1	**10BU 047**
	120,37 X 1,78	123,81	121,11	1,14	124	121,1	**10BU 048**
	126,72 X 1,78	130,16	127,46	1,14	130	127,1	**10BU 049**
	133,07 X 1,78	136,51	133,81	1,14	137	134,1	**10BU 050**
2,62	1,24 X 2,62	6,32	1,96	1,14	6,3	1,8	**10BU 102**
	2,06 X 2,62	7,13	2,77	1,14	7	2,5	**10BU 103**
	2,84 X 2,62	7,92	3,56	1,14	8	3,5	**10BU 104**
	3,63 X 2,62	8,7	4,34	1,14	9	4,5	**10BU 105**
	4,42 X 2,62	9,49	5,13	1,14	9,5	5	**10BU 106**
	5,23 X 2,62	10,29	5,93	1,14	10	5,5	**10BU 107**
	6,02 X 2,62	11,09	6,73	1,14	11	6,5	**10BU 108**
	7,59 X 2,62	12,67	8,31	1,14	13	8,5	**10BU 109**
	9,19 X 2,62	14,27	9,91	1,14	14	9,5	**10BU 110**
	10,77 X 2,62	15,84	11,48	1,14	16	11,5	**10BU 111**
	12,37 X 2,62	17,44	13,08	1,14	17	12,5	**10BU 112**
	13,94 X 2,62	19,02	14,66	1,14	19	14,5	**10BU 113**
	15,54 X 2,62	20,62	16,26	1,14	21	16,5	**10BU 114**
	17,12 X 2,62	22,19	17,83	1,14	22	17,5	**10BU 115**
	18,72 X 2,62	23,79	19,43	1,14	24	19,5	**10BU 116**
	20,3 X 2,62	25,47	21,11	1,14	25	20,5	**10BU 117**
	21,89 X 2,62	27,04	22,68	1,14	27	22,5	**10BU 118**
	23,47 X 2,62	28,64	24,28	1,14	29	24,5	**10BU 119**
	25,07 X 2,62	30,22	25,86	1,14	30	25,5	**10BU 120**
	26,64 X 2,62	31,82	27,46	1,14	32	27,5	**10BU 121**
	28,24 X 2,62	33,39	29,03	1,14	33	28,5	**10BU 122**
	29,82 X 2,62	34,99	30,63	1,14	35	30,5	**10BU 123**
	31,42 X 2,62	36,57	32,21	1,14	36,5	32	**10BU 124**
	32,99 X 2,62	38,17	33,81	1,14	38	33,5	**10BU 125**
	34,59 X 2,62	39,74	35,38	1,14	40	35,5	**10BU 126**
	36,17 X 2,62	41,34	36,98	1,14	41	36,5	**10BU 127**
	37,77 X 2,62	42,92	38,56	1,14	43	38,5	**10BU 128**
	39,34 X 2,62	44,52	40,16	1,14	44,5	40	**10BU 129**
	40,94 X 2,62	46,09	41,73	1,14	46	41,5	**10BU 130**
	42,52 X 2,62	47,69	43,33	1,14	48	43,5	**10BU 131**
	44,12 X 2,62	49,27	44,91	1,14	50	45,5	**10BU 132**
	45,69 X 2,62	50,87	46,51	1,14	51	46,5	**10BU 133**
	47,29 X 2,62	52,44	48,08	1,14	52	47,5	**10BU 134**
	48,9 X 2,62	54,04	49,68	1,14	54	49,5	**10BU 135**
	50,47 X 2,62	55,62	51,26	1,14	55,5	51	**10BU 136**
	52,07 X 2,62	57,22	52,86	1,14	57	52,5	**10BU 137**

10BU seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

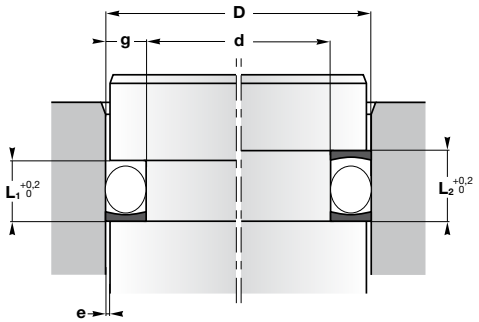


10BU

Example of item code

10BU 218

Profile AS/BS norm



Machining of housings: see page 81 and table 182

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 182

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials see pages 10-19

NBR 90 Sh A	colour: black

Assembly see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

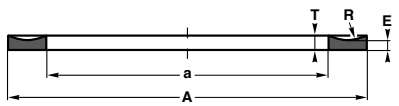
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	A	a	E	D	d	Reference
2,62	53,64 X 2,62	58,79	54,43	1,14	58	53,5	**10BU 138**
	55,25 X 2,62	60,39	56,03	1,14	60	55,5	**10BU 139**
	56,82 X 2,62	61,97	57,61	1,14	62	57,5	**10BU 140**
	58,42 X 2,62	63,57	59,21	1,14	63,5	59	**10BU 141**
	59,99 X 2,62	65,14	60,78	1,14	65	60,5	**10BU 142**
	61,6 X 2,62	66,74	62,38	1,14	67	62,5	**10BU 143**
	63,17 X 2,62	68,32	63,96	1,14	68	63,5	**10BU 144**
	64,77 X 2,62	69,92	65,56	1,14	70	65,5	**10BU 145**
	66,34 X 2,62	71,49	67,13	1,14	71	66,5	**10BU 146**
	67,95 X 2,62	73,09	68,73	1,14	73	68,5	**10BU 147**
	69,52 X 2,62	74,67	70,31	1,14	75	70,5	**10BU 148**
	71,12 X 2,62	76,27	71,91	1,14	76	71,5	**10BU 149**
	72,69 X 2,62	77,84	73,48	1,14	78	73,5	**10BU 150**
	75,87 X 2,62	81,02	76,66	1,14	81	76,5	**10BU 151**
	82,22 X 2,62	87,37	83,01	1,14	87	82,5	**10BU 152**
	88,57 X 2,62	93,72	89,36	1,14	94	89,5	**10BU 153**
	94,92 X 2,62	100,07	95,71	1,14	100	95,5	**10BU 154**
	101,27 X 2,62	106,42	102,06	1,14	106	101,5	**10BU 155**
	107,62 X 2,62	112,77	108,41	1,14	113	108,5	**10BU 156**
	113,97 X 2,62	119,12	114,76	1,14	119	114,5	**10BU 157**
	120,32 X 2,62	125,47	121,11	1,14	125	120,5	**10BU 158**
	126,67 X 2,62	131,82	127,46	1,14	132	127,5	**10BU 159**
	133,02 X 2,62	138,17	133,81	1,14	138	133,5	**10BU 160**
	139,37 X 2,62	144,52	140,16	1,14	144	139,5	**10BU 161**
	145,72 X 2,62	150,87	146,51	1,14	151	146,5	**10BU 162**
	152,07 X 2,62	157,22	152,86	1,14	157	152,5	**10BU 163**
	158,42 X 2,62	163,57	159,21	1,14	164	159,5	**10BU 164**
	164,77 X 2,62	170,01	165,65	1,14	170	165,5	**10BU 165**
	171,12 X 2,62	176,27	171,91	1,14	176	171,5	**10BU 166**
	177,47 X 2,62	182,62	178,26	1,14	183	178,5	**10BU 167**
	183,82 X 2,62	188,97	184,61	1,14	189	184,5	**10BU 168**
	190,17 X 2,62	195,32	190,96	1,14	195	190,5	**10BU 169**
	196,52 X 2,62	201,67	197,31	1,14	202	197,5	**10BU 170**
	202,87 X 2,62	208,02	203,66	1,14	208	203,5	**10BU 171**
	209,22 X 2,62	214,37	210,01	1,14	214	209,5	**10BU 172**
	215,57 X 2,62	220,72	216,36	1,14	221	216,5	**10BU 173**
	221,92 X 2,62	227,07	222,71	1,14	227	222,5	**10BU 174**
	228,27 X 2,62	233,42	229,06	1,14	233	228,5	**10BU 175**
	234,62 X 2,62	239,77	235,41	1,14	240	235,5	**10BU 176**
	240,97 X 2,62	246,12	241,76	1,14	246	241,5	**10BU 177**
	247,32 X 2,62	252,47	248,11	1,14	252	247,5	**10BU 178**

10BU seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

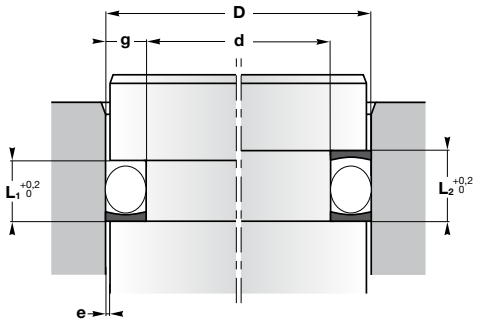


10BU

Example of item code

10BU 218

Profile — AS/BS norm



Machining of housings: see page 81 and table 184

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 184

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials — see pages 10-19

NBR 90 Sh A — colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

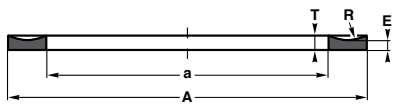
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	A	a	E	D	d	Reference
3,53	4,34 X 3,53	11,13	5,13	1,02	11	4,8	**10BU 201**
	5,94 X 3,53	12,73	6,73	1,02	13	6,8	**10BU 202**
	7,52 X 3,53	14,3	8,3	1,02	14	7,8	**10BU 203**
	9,12 X 3,53	15,9	9,9	1,02	16	9,8	**10BU 204**
	10,69 X 3,53	17,56	11,56	1,02	17	10,8	**10BU 205**
	12,29 X 3,53	19,16	13,16	1,02	19	12,8	**10BU 206**
	13,87 X 3,53	20,73	14,73	1,02	21	14,8	**10BU 207**
	15,47 X 3,53	22,33	16,33	1,02	22	15,8	**10BU 208**
	17,04 X 3,53	23,9	17,9	1,02	24	17,8	**10BU 209**
	18,64 X 3,53	25,46	19,46	1,02	25	18,8	**10BU 210**
	20,22 X 3,53	27,03	21,03	1,02	27	20,8	**10BU 211**
	21,82 X 3,53	28,63	22,63	1,02	29	22,8	**10BU 212**
	23,39 X 3,53	30,21	24,21	1,02	30	23,8	**10BU 213**
	24,99 X 3,53	31,81	25,81	1,02	32	25,8	**10BU 214**
	26,57 X 3,53	33,38	27,38	1,02	33	26,8	**10BU 215**
	28,17 X 3,53	34,98	28,98	1,02	35	28,8	**10BU 216**
	29,74 X 3,53	36,56	30,56	1,02	36,5	30,3	**10BU 217**
	31,34 X 3,53	38,16	32,16	1,02	38	31,8	**10BU 218**
	32,92 X 3,53	39,88	33,88	1,02	40	33,8	**10BU 219**
	34,52 X 3,53	41,48	35,48	1,02	41	34,8	**10BU 220**
	36,09 X 3,53	43,06	37,06	1,02	43	36,8	**10BU 221**
	37,69 X 3,53	44,66	38,66	1,02	44,5	38,3	**10BU 222**
	40,87 X 3,53	47,83	41,83	1,02	48	41,8	**10BU 223**
	44,04 X 3,53	51,01	45,01	1,02	51	44,8	**10BU 224**
	47,22 X 3,53	54,18	48,18	1,02	54	47,8	**10BU 225**
	50,39 X 3,53	57,36	51,36	1,02	57	50,8	**10BU 226**
	53,57 X 3,53	60,53	54,53	1,02	60	53,8	**10BU 227**
	56,74 X 3,53	63,71	57,71	1,02	63,5	57,3	**10BU 228**
	59,92 X 3,53	66,88	60,88	1,02	67	60,8	**10BU 229**
	63,09 X 3,53	70,06	64,06	1,02	70	63,8	**10BU 230**
	66,27 X 3,53	72,83	66,83	1,02	73	66,8	**10BU 231**
	69,44 X 3,53	76	70	1,02	76	69,8	**10BU 232**
	72,62 X 3,53	79,18	73,18	1,02	79	72,8	**10BU 233**
	75,79 X 3,53	82,35	76,35	1,02	83	76,8	**10BU 234**
	78,97 X 3,53	85,53	79,53	1,02	86	79,8	**10BU 235**
	82,14 X 3,53	88,7	82,7	1,02	89	82,8	**10BU 236**
	85,32 X 3,53	91,88	85,88	1,02	92	85,8	**10BU 237**
	88,49 X 3,53	95,05	89,05	1,02	95	88,8	**10BU 238**
	91,67 X 3,53	98,23	92,23	1,02	98	91,8	**10BU 239**
	94,84 X 3,53	101,4	95,4	1,02	102	95,8	**10BU 240**
	98,02 X 3,53	104,58	98,58	1,02	105	98,8	**10BU 241**
	101,19 X 3,53	107,75	101,75	1,02	108	101,8	**10BU 242**

10BU seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

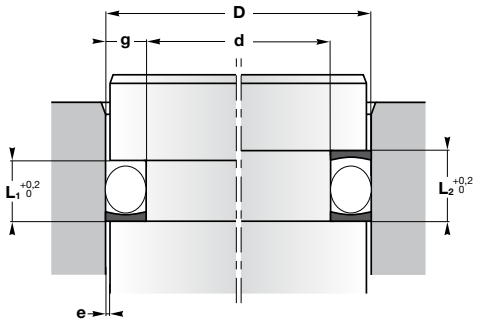


10BU

Example of item code

10BU 218

Profile AS/BS norm



Machining of housings: see page 81 and table 186

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 186

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials see pages 10-19

NBR 90 Sh A	colour: black

Assembly see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

More information

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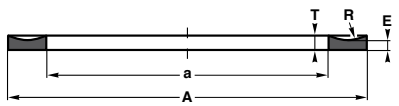
For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	A	a	E	D	d	Reference
3,53	104,37 X 3,53	110,93	104,93	1,02	111	104,8	**10BU 243**
	107,54 X 3,53	114,1	108,1	1,02	114	107,8	**10BU 244**
	110,72 X 3,53	117,28	111,28	1,02	118	111,8	**10BU 245**
	113,89 X 3,53	120,45	114,45	1,02	121	114,8	**10BU 246**
	117,07 X 3,53	123,63	117,63	1,02	124	117,8	**10BU 247**
	120,24 X 3,53	127,11	121,11	1,02	127	120,8	**10BU 248**
	123,42 X 3,53	130,28	124,28	1,02	130	123,8	**10BU 249**
	126,59 X 3,53	133,46	127,46	1,02	133	126,8	**10BU 250**
	129,77 X 3,53	136,63	130,63	1,02	136,5	130,3	**10BU 251**
	132,94 X 3,53	139,81	133,81	1,02	140	133,8	**10BU 252**
	136,12 X 3,53	142,98	136,98	1,02	143	136,8	**10BU 253**
	139,29 X 3,53	146,16	140,16	1,02	146	139,8	**10BU 254**
	142,47 X 3,53	149,33	143,33	1,02	150	143,8	**10BU 255**
	145,64 X 3,53	152,51	146,51	1,02	152	145,8	**10BU 256**
	148,82 X 3,53	155,68	149,68	1,02	156	149,8	**10BU 257**
	151,99 X 3,53	158,86	152,86	1,02	159	152,8	**10BU 258**
	158,34 X 3,53	165,21	159,21	1,02	165	158,8	**10BU 259**
	164,69 X 3,53	171,56	165,56	1,02	172	165,8	**10BU 260**
	171,04 X 3,53	177,91	171,91	1,02	190,5	184,3	**10BU 261**
	177,39 X 3,53	184,26	178,26	1,02	178	171,8	**10BU 262**
	183,74 X 3,53	190,61	184,61	1,02	184	177,8	**10BU 263**
	190,09 X 3,53	196,96	190,96	1,02	197	190,8	**10BU 264**
	196,44 X 3,53	203,31	197,31	1,02	203	196,8	**10BU 265**
	202,79 X 3,53	209,66	203,66	1,02	210	203,8	**10BU 266**
	209,14 X 3,53	216,01	210,01	1,02	215,9	209,7	**10BU 267**
	215,49 X 3,53	222,36	216,36	1,02	222,3	216,1	**10BU 268**
	221,84 X 3,53	228,71	222,71	1,02	229	222,8	**10BU 269**
	228,19 X 3,53	235,06	229,06	1,02	235	228,8	**10BU 270**
	234,54 X 3,53	241,41	235,41	1,02	241	234,8	**10BU 271**
	240,89 X 3,53	247,76	241,76	1,02	248	241,8	**10BU 272**
	247,26 X 3,53	254,11	248,11	1,02	254	247,8	**10BU 273**
	253,59 X 3,53	260,46	254,46	1,02	260	253,8	**10BU 274**
	266,29 X 3,53	273,16	267,16	1,02	273	266,8	**10BU 275**
	278,99 X 3,53	285,86	279,86	1,02	286	279,8	**10BU 276**
	291,69 X 3,53	298,56	292,56	1,02	299	292,8	**10BU 277**
	304,39 X 3,53	311,26	305,26	1,02	311	304,8	**10BU 278**
	329,79 X 3,53	336,66	330,66	1,02	336	329,8	**10BU 279**
	355,19 X 3,53	362,06	356,06	1,02	362	355,8	**10BU 280**
	380,59 X 3,53	387,46	381,46	1,02	387	380,8	**10BU 281**
	405,26 X 3,53	412,12	406,12	1,02	413	406,8	**10BU 282**
	430,66 X 3,53	437,52	431,52	1,02	438	431,8	**10BU 283**
	456,06 X 3,53	462,92	456,92	1,02	464	457,8	**10BU 284**

10BU seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

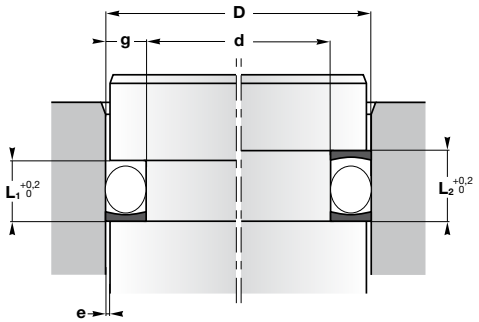


10BU

Example of item code

10BU 218

Profile AS/BS norm



Machining of housings: see page 81 and table 188

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 188

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials see pages 10-19

NBR 90 Sh A	colour: black

Assembly see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

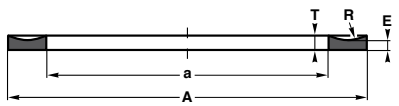
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	A	a	E	D	d	Reference
5,34	12,07 X 5,34	22,33	13,03	1,52	22	12,6	**10BU 310**
	13,64 X 5,34	23,9	14,6	1,52	24	14,6	**10BU 311**
	15,24 X 5,34	25,5	16,2	1,52	25	15,6	**10BU 312**
	16,81 X 5,34	27,08	17,78	1,52	27	17,6	**10BU 313**
	18,42 X 5,34	28,68	19,38	1,52	29	19,6	**10BU 314**
	19,99 X 5,34	30,26	20,96	1,52	30	20,6	**10BU 315**
	21,59 X 5,34	31,86	22,56	1,52	32	22,6	**10BU 316**
	23,16 X 5,34	33,43	24,13	1,52	33	23,6	**10BU 317**
	24,77 X 5,34	35,03	25,73	1,52	35	25,6	**10BU 318**
	26,34 X 5,34	36,61	27,31	1,52	36,5	27,1	**10BU 319**
	27,94 X 5,34	38,21	28,91	1,52	38	28,6	**10BU 320**
	29,51 X 5,34	39,72	30,42	1,52	40	30,6	**10BU 321**
	31,12 X 5,34	41,38	32,08	1,52	41	31,6	**10BU 322**
	32,69 X 5,34	42,73	33,43	1,52	43	33,6	**10BU 323**
	34,29 X 5,34	44,56	35,26	1,52	44,5	35,1	**10BU 324**
	37,47 X 5,34	47,73	38,43	1,52	48	38,6	**10BU 325**
	40,64 X 5,34	50,91	41,61	1,52	51	41,6	**10BU 326**
	43,82 X 5,34	54,08	44,78	1,52	54	44,6	**10BU 327**
	46,99 X 5,34	57,26	47,96	1,52	57	47,6	**10BU 328**
	50,17 X 5,34	60,43	51,13	1,52	60	50,6	**10BU 329**
	53,34 X 5,34	63,61	54,31	1,52	63,5	54,1	**10BU 330**
	56,52 X 5,34	66,91	57,61	1,52	67	57,6	**10BU 331**
	59,69 X 5,34	70,08	60,78	1,52	70	60,6	**10BU 332**
	62,87 X 5,34	73,26	63,96	1,52	73	63,6	**10BU 333**
	66,04 X 5,34	76,43	67,13	1,52	76	66,6	**10BU 334**
	69,22 X 5,34	79,61	70,31	1,52	80	70,6	**10BU 335**
	72,39 X 5,34	82,78	73,48	1,52	83	73,6	**10BU 336**
	75,57 X 5,34	85,96	76,66	1,52	86	76,6	**10BU 337**
	78,74 X 5,34	89,13	79,83	1,52	89	79,6	**10BU 338**
	81,92 X 5,34	92,43	83,13	1,52	92	82,6	**10BU 339**
	85,09 X 5,34	95,61	86,31	1,52	95	85,6	**10BU 340**
	88,27 X 5,34	98,78	89,48	1,52	98	88,6	**10BU 341**
	91,44 X 5,34	101,96	92,66	1,52	102	92,6	**10BU 342**
	94,62 X 5,34	105,13	95,83	1,52	105	95,6	**10BU 343**
	97,79 X 5,34	108,31	99,01	1,52	108	98,6	**10BU 344**
	100,97 X 5,34	111,61	102,31	1,52	111	101,6	**10BU 345**
	104,14 X 5,34	114,79	105,49	1,52	114	104,6	**10BU 346**
	107,32 X 5,34	117,96	108,66	1,52	118	108,6	**10BU 347**
	110,49 X 5,34	121,14	111,84	1,52	121	111,6	**10BU 348**
	113,67 X 5,34	124,31	115,01	1,52	124	114,6	**10BU 349**
	116,84 X 5,34	127,49	118,19	1,52	127	117,6	**10BU 350**
	120,02 X 5,34	130,66	121,36	1,52	130	120,6	**10BU 351**

10BU seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

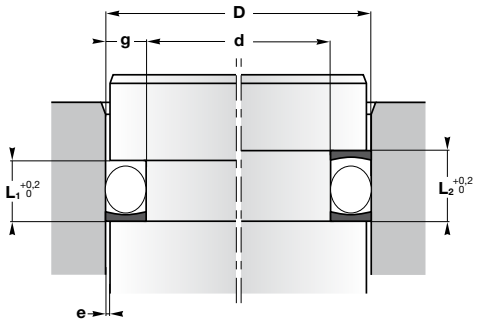


10BU

Example of item code

10BU 218

Profile — AS/BS norm



Machining of housings: see page 81 and table 190

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 190

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials — see pages 10-19

NBR 90 Sh A	colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

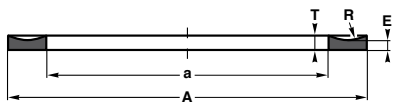
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	A	a	E	D	d	Reference
5,34	123,19 X 5,34	133,84	124,54	1,52	133	123,6	**10BU 352**
	126,37 X 5,34	137,01	127,71	1,52	137	127,6	**10BU 353**
	129,54 X 5,34	140,19	130,89	1,52	140	130,6	**10BU 354**
	132,72 X 5,34	143,36	134,06	1,52	143	133,6	**10BU 355**
	135,89 X 5,34	146,54	137,24	1,52	146	136,6	**10BU 356**
	139,07 X 5,34	149,71	140,41	1,52	150	140,6	**10BU 357**
	142,24 X 5,34	152,89	143,59	1,52	152	142,6	**10BU 358**
	145,42 X 5,34	156,06	146,76	1,52	156	146,6	**10BU 359**
	148,59 X 5,34	159,24	149,94	1,52	159	149,6	**10BU 360**
	151,77 X 5,34	162,41	153,11	1,52	162	152,6	**10BU 361**
	158,12 X 5,34	168,76	159,46	1,52	168	158,6	**10BU 362**
	164,47 X 5,34	175,11	165,81	1,52	175	165,6	**10BU 363**
	170,82 X 5,34	181,46	172,16	1,52	181	171,6	**10BU 364**
	177,17 X 5,34	187,81	178,51	1,52	187	177,6	**10BU 365**
	183,52 X 5,34	194,16	184,86	1,52	194	184,6	**10BU 366**
	189,87 X 5,34	200,51	191,21	1,52	200	190,6	**10BU 367**
	196,22 X 5,34	206,86	197,56	1,52	206	196,6	**10BU 368**
	202,57 X 5,34	213,21	203,91	1,52	213	203,6	**10BU 369**
	208,92 X 5,34	219,56	210,26	1,52	220	210,6	**10BU 370**
	215,27 X 5,34	225,91	216,61	1,52	225	215,6	**10BU 371**
	221,62 X 5,34	232,26	222,96	1,52	232	222,6	**10BU 372**
	227,97 X 5,34	238,61	229,31	1,52	238	228,6	**10BU 373**
	234,32 X 5,34	244,96	235,66	1,52	244,5	235,1	**10BU 374**
	240,67 X 5,34	251,31	242,01	1,52	251	241,6	**10BU 375**
	247,02 X 5,34	257,66	248,36	1,52	257	247,6	**10BU 376**
	253,37 X 5,34	264,01	254,71	1,52	264	254,6	**10BU 377**
	266,07 X 5,34	276,71	267,41	1,52	276	266,6	**10BU 378**
	278,77 X 5,34	289,41	280,11	1,52	290	280,6	**10BU 379**
	291,47 X 5,34	302,11	292,81	1,52	302	292,6	**10BU 380**
	304,17 X 5,34	314,81	305,51	1,52	315	305,6	**10BU 381**
	329,57 X 5,34	340,21	330,91	1,52	340	330,6	**10BU 382**
	354,97 X 5,34	365,61	356,31	1,52	366	356,6	**10BU 383**
	113,67 X 7	127,58	115,6	1,52	128	115,8	**10BU 425**
7	116,84 X 7	130,75	118,77	2,44	131	118,8	**10BU 426**
(6,99)	120,02 X 7	133,93	121,95	2,44	134	121,8	**10BU 427**
	123,19 X 7	137,18	125,2	2,44	137	124,8	**10BU 428**
	126,37 X 7	140,28	128,3	2,44	140	127,8	**10BU 429**
	129,54 X 7	143,45	131,47	2,44	143	130,8	**10BU 430**
	132,72 X 7	146,63	134,65	2,44	147	134,8	**10BU 431**
	135,89 X 7	149,8	137,82	2,44	150	137,8	**10BU 432**
	139,07 X 7	152,98	141	2,44	152	139,8	**10BU 433**
	142,24 X 7	156,15	144,17	2,44	156	143,8	**10BU 434**

10BU seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

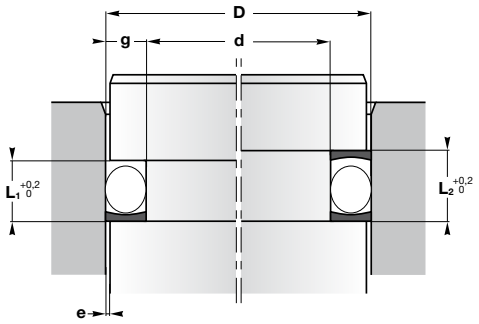


10BU

Example of item code

10BU 218

Profile — AS/BS norm



Machining of housings: see page 81 and table 192

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 192

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials — see pages 10-19

NBR 90 Sh A	colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

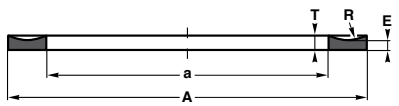
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	A	a	E	D	d	Reference
7	145,42 X 7	159,33	147,35	2,44	159	146,8	**10BU 435**
(6,99)	148,59 X 7	162,5	150,52	2,44	162	149,8	**10BU 436**
	151,77 X 7	165,68	153,7	2,44	165	152,8	**10BU 437**
	158,12 X 7	171,34	159,36	2,44	172	159,8	**10BU 438**
	164,47 X 7	177,69	165,71	2,44	178	165,8	**10BU 439**
	170,82 X 7	184,04	172,06	2,44	184	171,8	**10BU 440**
	177,17 X 7	190,39	178,41	2,44	190,5	178,3	**10BU 441**
	183,52 X 7	196,74	184,76	2,44	197	184,8	**10BU 442**
	189,87 X 7	203,09	191,11	2,44	203	190,8	**10BU 443**
	196,22 X 7	209,44	197,46	2,44	210	197,8	**10BU 444**
	202,57 X 7	215,79	203,81	2,44	216	203,8	**10BU 445**
	215,27 X 7	228,49	216,51	2,44	229	216,8	**10BU 446**
	227,97 X 7	241,19	229,21	2,44	241	228,8	**10BU 447**
	240,67 X 7	253,89	241,91	2,44	254	241,8	**10BU 448**
	253,37 X 7	266,59	254,61	2,44	267	254,8	**10BU 449**
	266,07 X 7	279,29	267,31	2,44	280	267,8	**10BU 450**
	278,77 X 7	291,99	280,01	2,44	292	279,8	**10BU 451**
	291,47 X 7	304,69	292,71	2,44	305	292,8	**10BU 452**
	304,17 X 7	317,39	305,41	2,44	318	305,8	**10BU 453**
	316,87 X 7	330,09	318,11	2,44	330	317,8	**10BU 454**
	329,57 X 7	342,79	330,81	2,44	343	330,8	**10BU 455**
	342,27 X 7	355,49	343,51	2,44	356	343,8	**10BU 456**
	354,97 X 7	368,19	356,21	2,44	368	355,8	**10BU 457**
	367,67 X 7	380,89	368,91	2,44	381	368,8	**10BU 458**
	380,37 X 7	393,59	381,61	2,44	394	381,8	**10BU 459**
	393,07 X 7	406,29	394,31	2,44	406	393,8	**10BU 460**
	405,26 X 7	418,48	406,5	2,44	419	406,8	**10BU 461**
	417,96 X 7	431,18	419,2	2,44	432	419,8	**10BU 462**
	430,66 X 7	443,88	431,9	2,44	444,5	432,3	**10BU 463**
	443,36 X 7	456,58	444,6	2,44	457	444,8	**10BU 464**
	456,06 X 7	469,28	457,3	2,44	470	457,8	**10BU 465**
	468,76 X 7	481,98	470	2,44	483	470,8	**10BU 466**
	481,46 X 7	494,68	482,7	2,44	495	482,8	**10BU 467**
	494,16 X 7	507,38	495,4	2,44	508	495,8	**10BU 468**
	506,86 X 7	520,08	508,1	2,44	521	508,8	**10BU 469**

10BU seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

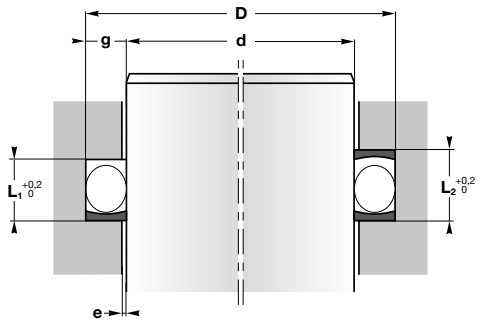


10BU.../INT

Example of item code

10BU 218/INT

Profile — AS/BS norm



Machining of housings: see page 81 and table 194

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 194

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials — see pages 10-19

NBR 90 Sh A	colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

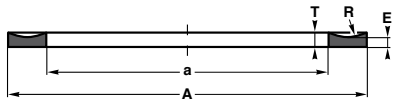
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	a	A	E	d	D	Reference
1,78	1,78 X 1,78	2,44	5,14	1,14	2	4,9	**10BU 004/INT**
	2,57 X 1,78	3,23	5,93	1,14	2,5	5,4	**10BU 005/INT**
	2,9 X 1,78	3,56	6,26	1,14	3	5,9	**10BU 006/INT**
	3,68 X 1,78	4,34	7,04	1,14	4	6,9	**10BU 007/INT**
	4,47 X 1,78	5,13	7,83	1,14	5	7,9	**10BU 008/INT**
	5,28 X 1,78	5,94	8,64	1,14	5,5	8,4	**10BU 009/INT**
	6,07 X 1,78	6,73	9,43	1,14	6,5	9,4	**10BU 010/INT**
	7,65 X 1,78	8,31	11,01	1,14	8	10,9	**10BU 011/INT**
	9,25 X 1,78	9,91	12,61	1,14	9,5	12,4	**10BU 012/INT**
	10,82 X 1,78	11,56	14,26	1,14	11	13,9	**10BU 013/INT**
	12,42 X 1,78	13,16	15,86	1,14	13	15,9	**10BU 014/INT**
	14,0 X 1,78	14,73	17,43	1,14	14	16,9	**10BU 015/INT**
	15,6 X 1,78	16,33	19,03	1,14	16	18,9	**10BU 016/INT**
	17,17 X 1,78	17,91	20,61	1,14	17	19,9	**10BU 017/INT**
	18,77 X 1,78	19,51	22,21	1,14	19	21,9	**10BU 018/INT**
	20,35 X 1,78	21,08	23,78	1,14	20	22,9	**10BU 019/INT**
	21,95 X 1,78	22,68	25,38	1,14	22	24,9	**10BU 020/INT**
	23,52 X 1,78	24,26	26,96	1,14	24	26,9	**10BU 021/INT**
	25,12 X 1,78	25,86	28,56	1,14	25	27,9	**10BU 022/INT**
	26,7 X 1,78	27,43	30,13	1,14	27	29,9	**10BU 023/INT**
	28,3 X 1,78	29,03	31,73	1,14	29	31,9	**10BU 024/INT**
	29,87 X 1,78	30,61	33,31	1,14	30	32,9	**10BU 025/INT**
	31,47 X 1,78	32,21	34,91	1,14	32	34,9	**10BU 026/INT**
	33,05 X 1,78	33,78	36,48	1,14	33	35,9	**10BU 027/INT**
	34,65 X 1,78	35,38	38,08	1,14	35	37,9	**10BU 028/INT**
	37,82 X 1,78	38,56	41,26	1,14	38	40,9	**10BU 029/INT**
	41,0 X 1,78	41,73	44,43	1,14	41	43,9	**10BU 030/INT**
	44,17 X 1,78	44,91	47,61	1,14	44,5	47,4	**10BU 031/INT**
	47,35 X 1,78	48,08	50,78	1,14	48	50,9	**10BU 032/INT**
	50,52 X 1,78	51,26	53,96	1,14	51	53,9	**10BU 033/INT**
	53,7 X 1,78	54,43	57,13	1,14	54	56,9	**10BU 034/INT**
	56,87 X 1,78	57,61	60,31	1,14	57	59,9	**10BU 035/INT**
	60,05 X 1,78	60,78	63,48	1,14	60	62,9	**10BU 036/INT**
	63,22 X 1,78	63,96	66,66	1,14	63	65,9	**10BU 037/INT**
	66,4 X 1,78	67,13	69,83	1,14	67	69,9	**10BU 038/INT**
	69,57 X 1,78	70,31	73,01	1,14	70	72,9	**10BU 039/INT**
	72,75 X 1,78	73,48	76,18	1,14	73	75,9	**10BU 040/INT**
	75,92 X 1,78	76,66	79,36	1,14	76	78,9	**10BU 041/INT**
	82,27 X 1,78	83,01	85,71	1,14	83	85,9	**10BU 042/INT**
	88,62 X 1,78	89,36	92,06	1,14	89	91,9	**10BU 043/INT**
	94,97 X 1,78	95,71	98,41	1,14	95	97,9	**10BU 044/INT**
	101,32 X 1,78	102,06	104,76	1,14	102	104,9	**10BU 045/INT**

10BU.../INT seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

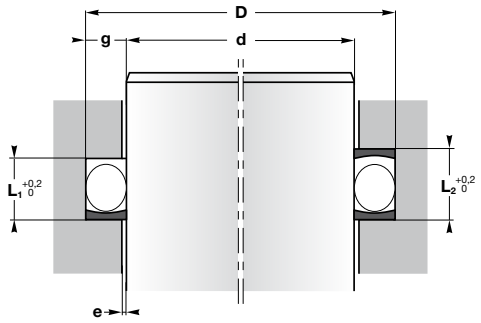


10BU.../INT

Example of item code

10BU 218/INT

Profile — AS/BS norm



Machining of housings: see page 81 and table 196

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 196

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

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10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials — see pages 10-19

NBR 90 Sh A	colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

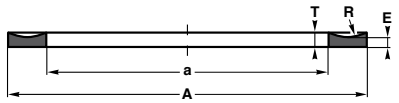
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	a	A	E	d	D	Reference
1,78	107,67 X 1,78	108,41	111,11	1,14	108	110,9	**10BU 046/INT**
	114,02 X 1,78	114,76	117,46	1,14	114	116,9	**10BU 047/INT**
	120,37 X 1,78	121,11	123,81	1,14	121	123,9	**10BU 048/INT**
	126,72 X 1,78	127,46	130,16	1,14	127	129,9	**10BU 049/INT**
	133,07 X 1,78	133,81	136,51	1,14	133	135,9	**10BU 050/INT**
2,62	1,24 X 2,62	1,96	6,32	1,14	1,6	6,1	**10BU 102/INT**
	2,06 X 2,62	2,77	7,13	1,14	2,5	7	**10BU 103/INT**
	2,84 X 2,62	3,56	7,92	1,14	3	7,5	**10BU 104/INT**
	3,63 X 2,62	4,34	8,7	1,14	4	8,5	**10BU 105/INT**
	4,42 X 2,62	5,13	9,49	1,14	5	9,5	**10BU 106/INT**
	5,23 X 2,62	5,93	10,29	1,14	5,5	10	**10BU 107/INT**
	6,02 X 2,62	6,73	11,09	1,14	6,5	11	**10BU 108/INT**
	7,59 X 2,62	8,31	12,67	1,14	8	12,5	**10BU 109/INT**
	9,19 X 2,62	9,91	14,27	1,14	9,5	14	**10BU 110/INT**
	10,77 X 2,62	11,48	15,84	1,14	11	15,5	**10BU 111/INT**
	12,37 X 2,62	13,08	17,44	1,14	13	17,5	**10BU 112/INT**
	13,94 X 2,62	14,66	19,02	1,14	14	18,5	**10BU 113/INT**
	15,54 X 2,62	16,26	20,62	1,14	16	20,5	**10BU 114/INT**
	17,12 X 2,62	17,83	22,19	1,14	17	21,5	**10BU 115/INT**
	18,72 X 2,62	19,43	23,79	1,14	19	23,5	**10BU 116/INT**
	20,3 X 2,62	21,11	25,47	1,14	20	24,5	**10BU 117/INT**
	21,89 X 2,62	22,68	27,04	1,14	22	26,5	**10BU 118/INT**
	23,47 X 2,62	24,28	28,64	1,14	24	28,5	**10BU 119/INT**
	25,07 X 2,62	25,86	30,22	1,14	25	29,5	**10BU 120/INT**
	26,64 X 2,62	27,46	31,82	1,14	27	31,5	**10BU 121/INT**
	28,24 X 2,62	29,03	33,39	1,14	29	33,5	**10BU 122/INT**
	29,82 X 2,62	30,63	34,99	1,14	30	34,5	**10BU 123/INT**
	31,42 X 2,62	32,21	36,57	1,14	32	36,5	**10BU 124/INT**
	32,99 X 2,62	33,81	38,17	1,14	33	37,5	**10BU 125/INT**
	34,59 X 2,62	35,38	39,74	1,14	35	39,5	**10BU 126/INT**
	36,17 X 2,62	36,98	41,34	1,14	36,5	41	**10BU 127/INT**
	37,77 X 2,62	38,56	42,92	1,14	38	42,5	**10BU 128/INT**
	39,34 X 2,62	40,16	44,52	1,14	40	44,5	**10BU 129/INT**
	40,94 X 2,62	41,73	46,09	1,14	41	45,5	**10BU 130/INT**
	42,52 X 2,62	43,33	47,69	1,14	43	47,5	**10BU 131/INT**
	44,12 X 2,62	44,91	49,27	1,14	44,5	49	**10BU 132/INT**
	45,69 X 2,62	46,51	50,87	1,14	46	50,5	**10BU 133/INT**
	47,29 X 2,62	48,08	52,44	1,14	48	52,5	**10BU 134/INT**
	48,9 X 2,62	49,68	54,04	1,14	49	53,5	**10BU 135/INT**
	50,47 X 2,62	51,26	55,62	1,14	51	55,5	**10BU 136/INT**
	52,07 X 2,62	52,86	57,22	1,14	52	56,5	**10BU 137/INT**

10BU.../INT seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

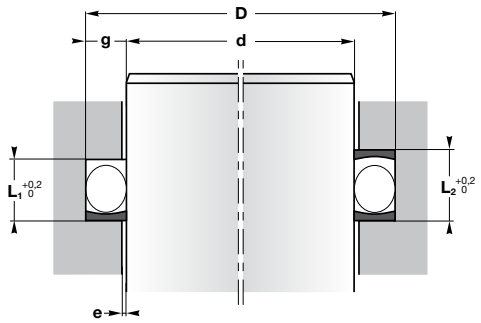


10BU.../INT

Example of item code

10BU 218/INT

Profile — AS/BS norm



Machining of housings: see page 81 and table 198

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 198

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions	**see page 8**
Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials	**see pages 10-19**
NBR 90 Sh A	colour: black

Assembly	**see pages 54-59**
In one-piece housings	

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

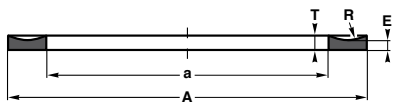
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	a	A	E	d	D	Reference
2,62	53,64 X 2,62	54,43	58,79	1,14	54	58,5	**10BU 138/INT**
	55,25 X 2,62	56,03	60,39	1,14	55	59,5	**10BU 139/INT**
	56,82 X 2,62	57,61	61,97	1,14	57	61,5	**10BU 140/INT**
	58,42 X 2,62	59,21	63,57	1,14	59	63,5	**10BU 141/INT**
	59,99 X 2,62	60,78	65,14	1,14	60	64,5	**10BU 142/INT**
	61,6 X 2,62	62,38	66,74	1,14	62	66,5	**10BU 143/INT**
	63,17 X 2,62	63,96	68,32	1,14	63	67,5	**10BU 144/INT**
	64,77 X 2,62	65,56	69,92	1,14	65	69,5	**10BU 145/INT**
	66,34 X 2,62	67,13	71,49	1,14	67	71,5	**10BU 146/INT**
	67,95 X 2,62	68,73	73,09	1,14	68	72,5	**10BU 147/INT**
	69,52 X 2,62	70,31	74,67	1,14	70	74,5	**10BU 148/INT**
	71,12 X 2,62	71,91	76,27	1,14	71	75,5	**10BU 149/INT**
	72,69 X 2,62	73,48	77,84	1,14	73	77,5	**10BU 150/INT**
	75,87 X 2,62	76,66	81,02	1,14	76	80,5	**10BU 151/INT**
	82,22 X 2,62	83,01	87,37	1,14	83	87,5	**10BU 152/INT**
	88,57 X 2,62	89,36	93,72	1,14	89	93,5	**10BU 153/INT**
	94,92 X 2,62	95,71	100,07	1,14	95	99,5	**10BU 154/INT**
	101,27 X 2,62	102,06	106,42	1,14	102	106,5	**10BU 155/INT**
	107,62 X 2,62	108,41	112,77	1,14	108	112,5	**10BU 156/INT**
	113,97 X 2,62	114,76	119,12	1,14	114	118,5	**10BU 157/INT**
	120,32 X 2,62	121,11	125,47	1,14	121	125,5	**10BU 158/INT**
	126,67 X 2,62	127,46	131,82	1,14	127	131,5	**10BU 159/INT**
	133,02 X 2,62	133,81	138,17	1,14	133	137,5	**10BU 160/INT**
	139,37 X 2,62	140,16	144,52	1,14	140	144,5	**10BU 161/INT**
	145,72 X 2,62	146,51	150,87	1,14	146	150,5	**10BU 162/INT**
	152,07 X 2,62	152,86	157,22	1,14	152	156,5	**10BU 163/INT**
	158,42 X 2,62	159,21	163,57	1,14	159	163,5	**10BU 164/INT**
	164,77 X 2,62	165,65	170,01	1,14	165	169,5	**10BU 165/INT**
	171,12 X 2,62	171,91	176,27	1,14	172	176,5	**10BU 166/INT**
	177,47 X 2,62	178,26	182,62	1,14	178	182,5	**10BU 167/INT**
	183,82 X 2,62	184,61	188,97	1,14	184	188,5	**10BU 168/INT**
	190,17 X 2,62	190,96	195,32	1,14	190	194,5	**10BU 169/INT**
	196,52 X 2,62	197,31	201,67	1,14	197	201,5	**10BU 170/INT**
	202,87 X 2,62	203,66	208,02	1,14	203	207,5	**10BU 171/INT**
	209,22 X 2,62	210,01	214,37	1,14	210	214,5	**10BU 172/INT**
	215,57 X 2,62	216,36	220,72	1,14	216	220,5	**10BU 173/INT**
	221,92 X 2,62	222,71	227,07	1,14	222	226,5	**10BU 174/INT**
	228,27 X 2,62	229,06	233,42	1,14	229	233,5	**10BU 175/INT**
	234,62 X 2,62	235,41	239,77	1,14	235	239,5	**10BU 176/INT**
	240,97 X 2,62	241,76	246,12	1,14	241	245,5	**10BU 177/INT**
	247,32 X 2,62	248,11	252,47	1,14	248	252,5	**10BU 178/INT**

10BU.../INT seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

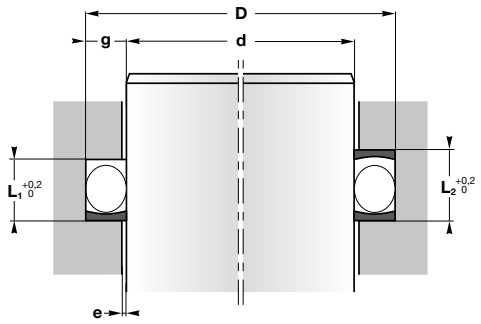


10BU.../INT

Example of item code

10BU 218/INT

Profile — AS/BS norm



Machining of housings: see page 81 and table 200

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 200

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials — see pages 10-19

NBR 90 Sh A	colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

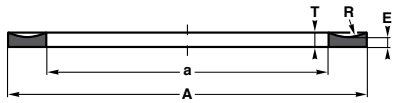
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	a	A	E	d	D	Reference
3,53	4,34 X 3,53	5,13	11,13	1,02	5	11,2	**10BU 201/INT**
	5,94 X 3,53	6,73	12,73	1,02	6,5	12,7	**10BU 202/INT**
	7,52 X 3,53	8,3	14,3	1,02	8	14,2	**10BU 203/INT**
	9,12 X 3,53	9,9	15,9	1,02	9,5	15,7	**10BU 204/INT**
	10,69 X 3,53	11,56	17,56	1,02	11	17,2	**10BU 205/INT**
	12,29 X 3,53	13,16	19,16	1,02	13	19,2	**10BU 206/INT**
	13,87 X 3,53	14,73	20,73	1,02	14	20,2	**10BU 207/INT**
	15,47 X 3,53	16,33	22,33	1,02	16	22,2	**10BU 208/INT**
	17,04 X 3,53	17,9	23,9	1,02	17	23,2	**10BU 209/INT**
	18,64 X 3,53	19,46	25,46	1,02	19	25,2	**10BU 210/INT**
	20,22 X 3,53	21,03	27,03	1,02	20	26,2	**10BU 211/INT**
	21,82 X 3,53	22,63	28,63	1,02	22	28,2	**10BU 212/INT**
	23,39 X 3,53	24,21	30,21	1,02	24	30,2	**10BU 213/INT**
	24,99 X 3,53	25,81	31,81	1,02	25	31,2	**10BU 214/INT**
	26,57 X 3,53	27,38	33,38	1,02	27	33,2	**10BU 215/INT**
	28,17 X 3,53	28,98	34,98	1,02	29	35,2	**10BU 216/INT**
	29,74 X 3,53	30,56	36,56	1,02	30	36,2	**10BU 217/INT**
	31,34 X 3,53	32,16	38,16	1,02	32	38,2	**10BU 218/INT**
	32,92 X 3,53	33,88	39,88	1,02	33	39,2	**10BU 219/INT**
	34,52 X 3,53	35,48	41,48	1,02	35	41,2	**10BU 220/INT**
	36,09 X 3,53	37,06	43,06	1,02	36	42,2	**10BU 221/INT**
	37,69 X 3,53	38,66	44,66	1,02	38	44,2	**10BU 222/INT**
	40,87 X 3,53	41,83	47,83	1,02	41	47,2	**10BU 223/INT**
	44,04 X 3,53	45,01	51,01	1,02	44,5	50,7	**10BU 224/INT**
	47,22 X 3,53	48,18	54,18	1,02	48	54,2	**10BU 225/INT**
	50,39 X 3,53	51,36	57,36	1,02	51	57,2	**10BU 226/INT**
	53,57 X 3,53	54,53	60,53	1,02	54	60,2	**10BU 227/INT**
	56,74 X 3,53	57,71	63,71	1,02	57	63,2	**10BU 228/INT**
	59,92 X 3,53	60,88	66,88	1,02	60	66,2	**10BU 229/INT**
	63,09 X 3,53	64,06	70,06	1,02	63,5	69,7	**10BU 230/INT**
	66,27 X 3,53	66,83	72,83	1,02	67	73,2	**10BU 231/INT**
	69,44 X 3,53	70	76	1,02	70	76,2	**10BU 232/INT**
	72,62 X 3,53	73,18	79,18	1,02	73	79,2	**10BU 233/INT**
	75,79 X 3,53	76,35	82,35	1,02	76	82,2	**10BU 234/INT**
	78,97 X 3,53	79,53	85,53	1,02	79,5	85,7	**10BU 235/INT**
	82,14 X 3,53	82,7	88,7	1,02	83	89,2	**10BU 236/INT**
	85,32 X 3,53	85,88	91,88	1,02	86	92,2	**10BU 237/INT**
	88,49 X 3,53	89,05	95,05	1,02	90	96,2	**10BU 238/INT**
	91,67 X 3,53	92,23	98,23	1,02	92	98,2	**10BU 239/INT**
	94,84 X 3,53	95,4	101,4	1,02	95	101,2	**10BU 240/INT**
	98,02 X 3,53	98,58	104,58	1,02	98	104,2	**10BU 241/INT**
	101,19 X 3,53	101,75	107,75	1,02	102	108,2	**10BU 242/INT**

10BU.../INT seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

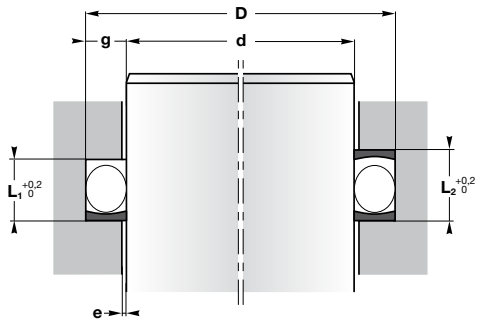


10BU.../INT

Example of item code

10BU 218/INT

Profile — AS/BS norm



Machining of housings: see page 81 and table 202

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 202

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

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10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials — see pages 10-19

NBR 90 Sh A	colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

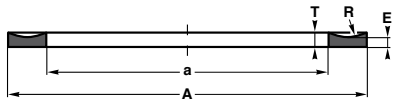
- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

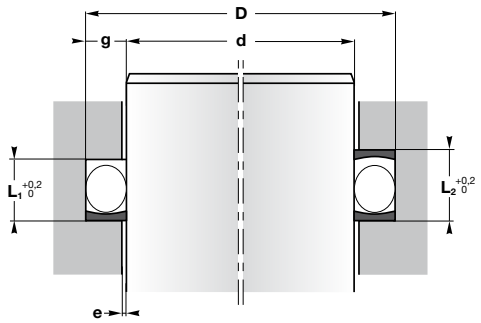
O-ring cross section	O-ring	a	A	E	d	D	Reference
3,53	104,37 X 3,53	104,93	110,93	1,02	105	111,2	**10BU 243/INT**
	107,54 X 3,53	108,1	114,1	1,02	108	114,2	**10BU 244/INT**
	110,72 X 3,53	111,28	117,28	1,02	111	117,2	**10BU 245/INT**
	113,89 X 3,53	114,45	120,45	1,02	114	120,2	**10BU 246/INT**
	117,07 X 3,53	117,63	123,63	1,02	118	124,2	**10BU 247/INT**
	120,24 X 3,53	121,11	127,11	1,02	121	127,2	**10BU 248/INT**
	123,42 X 3,53	124,28	130,28	1,02	124	130,2	**10BU 249/INT**
	126,59 X 3,53	127,46	133,46	1,02	127	133,2	**10BU 250/INT**
	129,77 X 3,53	130,63	136,63	1,02	130	136,2	**10BU 251/INT**
	132,94 X 3,53	133,81	139,81	1,02	133	139,2	**10BU 252/INT**
	136,12 X 3,53	136,98	142,98	1,02	136,5	142,7	**10BU 253/INT**
	139,29 X 3,53	140,16	146,16	1,02	140	146,2	**10BU 254/INT**
	142,47 X 3,53	143,33	149,33	1,02	143	149,2	**10BU 255/INT**
	145,64 X 3,53	146,51	152,51	1,02	146	152,2	**10BU 256/INT**
	148,82 X 3,53	149,68	155,68	1,02	149	155,2	**10BU 257/INT**
	151,99 X 3,53	152,86	158,86	1,02	152	158,2	**10BU 258/INT**
	158,34 X 3,53	159,21	165,21	1,02	159	165,2	**10BU 259/INT**
	164,69 X 3,53	165,56	171,56	1,02	165	171,2	**10BU 260/INT**
	171,04 X 3,53	171,91	177,91	1,02	172	178,2	**10BU 261/INT**
	177,39 X 3,53	178,26	184,26	1,02	178	184,2	**10BU 262/INT**
	183,74 X 3,53	184,61	190,61	1,02	184	190,2	**10BU 263/INT**
	190,09 X 3,53	190,96	196,96	1,02	190,5	196,7	**10BU 264/INT**
	196,44 X 3,53	197,31	203,31	1,02	197	203,2	**10BU 265/INT**
	202,79 X 3,53	203,66	209,66	1,02	203	209,2	**10BU 266/INT**
	209,14 X 3,53	210,01	216,01	1,02	210	216,2	**10BU 267/INT**
	215,49 X 3,53	216,36	222,36	1,02	215,9	222,1	**10BU 268/INT**
	221,84 X 3,53	222,71	228,71	1,02	222,3	228,5	**10BU 269/INT**
	228,19 X 3,53	229,06	235,06	1,02	228,6	234,8	**10BU 270/INT**
	234,54 X 3,53	235,41	241,41	1,02	235	241,2	**10BU 271/INT**
	240,89 X 3,53	241,76	247,76	1,02	241	247,2	**10BU 272/INT**
	247,26 X 3,53	248,11	254,11	1,02	248	254,2	**10BU 273/INT**
	253,59 X 3,53	254,46	260,46	1,02	254	260,2	**10BU 274/INT**
	266,29 X 3,53	267,16	273,16	1,02	267	273,2	**10BU 275/INT**
	278,99 X 3,53	279,86	285,86	1,02	280	286,2	**10BU 276/INT**
	291,69 X 3,53	292,56	298,56	1,02	292	298,2	**10BU 277/INT**
	304,39 X 3,53	305,26	311,26	1,02	305	311,2	**10BU 278/INT**
	329,79 X 3,53	330,66	336,66	1,02	330	336,2	**10BU 279/INT**
	355,19 X 3,53	356,06	362,06	1,02	356	362,2	**10BU 280/INT**
	380,59 X 3,53	381,46	387,46	1,02	381	387,2	**10BU 281/INT**
	405,26 X 3,53	406,12	412,12	1,02	406	412,2	**10BU 282/INT**
	430,66 X 3,53	431,52	437,52	1,02	432	438,2	**10BU 283/INT**
	456,06 X 3,53	456,92	462,92	1,02	457	463,2	**10BU 284/INT**



10BU.../INT

Example of item code

10BU 218/INT
Profile AS/BS norm



Machining of housings: see page 81 and table 204

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 204

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials see pages 10-19

NBR 90 Sh A	colour: black

Assembly see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

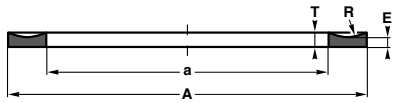
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	a	A	E	d	D	Reference
5,34	12,07 X 5,34	13,03	22,33	1,52	13	22,4	**10BU 310/INT**
	13,64 X 5,34	14,6	23,9	1,52	14	23,4	**10BU 311/INT**
	15,24 X 5,34	16,2	25,5	1,52	16	25,4	**10BU 312/INT**
	16,81 X 5,34	17,78	27,08	1,52	17	26,4	**10BU 313/INT**
	18,42 X 5,34	19,38	28,68	1,52	19	28,4	**10BU 314/INT**
	19,99 X 5,34	20,96	30,26	1,52	20	29,4	**10BU 315/INT**
	21,59 X 5,34	22,56	31,86	1,52	22	31,4	**10BU 316/INT**
	23,16 X 5,34	24,13	33,43	1,52	24	33,4	**10BU 317/INT**
	24,77 X 5,34	25,73	35,03	1,52	25	34,4	**10BU 318/INT**
	26,34 X 5,34	27,31	36,61	1,52	27	36,4	**10BU 319/INT**
	27,94 X 5,34	28,91	38,21	1,52	29	38,4	**10BU 320/INT**
	29,51 X 5,34	30,42	39,72	1,52	30	39,4	**10BU 321/INT**
	31,12 X 5,34	32,08	41,38	1,52	32	41,4	**10BU 322/INT**
	32,69 X 5,34	33,43	42,73	1,52	33	42,4	**10BU 323/INT**
	34,29 X 5,34	35,26	44,56	1,52	35	44,4	**10BU 324/INT**
	37,47 X 5,34	38,43	47,73	1,52	38	47,4	**10BU 325/INT**
	40,64 X 5,34	41,61	50,91	1,52	41	50,4	**10BU 326/INT**
	43,82 X 5,34	44,78	54,08	1,52	44,5	53,9	**10BU 327/INT**
	46,99 X 5,34	47,96	57,26	1,52	48	57,4	**10BU 328/INT**
	50,17 X 5,34	51,13	60,43	1,52	51	60,4	**10BU 329/INT**
	53,34 X 5,34	54,31	63,61	1,52	54	63,4	**10BU 330/INT**
	56,52 X 5,34	57,61	66,91	1,52	57	66,4	**10BU 331/INT**
	59,69 X 5,34	60,78	70,08	1,52	60	69,4	**10BU 332/INT**
	62,87 X 5,34	63,96	73,26	1,52	64	73,4	**10BU 333/INT**
	66,04 X 5,34	67,13	76,43	1,52	67	76,4	**10BU 334/INT**
	69,22 X 5,34	70,31	79,61	1,52	70	79,4	**10BU 335/INT**
	72,39 X 5,34	73,48	82,78	1,52	73	82,4	**10BU 336/INT**
	75,57 X 5,34	76,66	85,96	1,52	76	85,4	**10BU 337/INT**
	78,74 X 5,34	79,83	89,13	1,52	80	89,4	**10BU 338/INT**
	81,92 X 5,34	83,13	92,43	1,52	83	92,4	**10BU 339/INT**
	85,09 X 5,34	86,31	95,61	1,52	86	95,4	**10BU 340/INT**
	88,27 X 5,34	89,48	98,78	1,52	90	99,4	**10BU 341/INT**
	91,44 X 5,34	92,66	101,96	1,52	92	101,4	**10BU 342/INT**
	94,62 X 5,34	95,83	105,13	1,52	95	104,4	**10BU 343/INT**
	97,79 X 5,34	99,01	108,31	1,52	98	107,4	**10BU 344/INT**
	100,97 X 5,34	102,31	111,61	1,52	102	111,4	**10BU 345/INT**
	104,14 X 5,34	105,49	114,79	1,52	105	114,4	**10BU 346/INT**
	107,32 X 5,34	108,66	117,96	1,52	108	117,4	**10BU 347/INT**
	110,49 X 5,34	111,84	121,14	1,52	111	120,4	**10BU 348/INT**
	113,67 X 5,34	115,01	124,31	1,52	114	123,4	**10BU 349/INT**
	116,84 X 5,34	118,19	127,49	1,52	118	127,4	**10BU 350/INT**
	120,02 X 5,34	121,36	130,66	1,52	115	124,4	**10BU 351/INT**

10BU.../INT seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

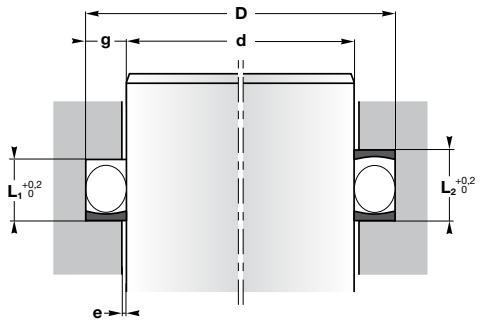


10BU.../INT

Example of item code

10BU 218/INT

Profile — AS/BS norm



Machining of housings: see page 81 and table 206

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 206

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials — see pages 10-19

NBR 90 Sh A	colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

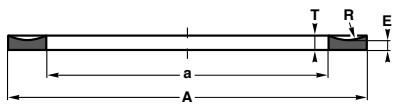
- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring	a	A	E	d	D	Reference
5,34	123,19 X 5,34	124,54	133,84	1,52	124	133,4	**10BU 352/INT**
	126,37 X 5,34	127,71	137,01	1,52	127	136,4	**10BU 353/INT**
	129,54 X 5,34	130,89	140,19	1,52	130	139,4	**10BU 354/INT**
	132,72 X 5,34	134,06	143,36	1,52	134	143,4	**10BU 355/INT**
	135,89 X 5,34	137,24	146,54	1,52	137	146,4	**10BU 356/INT**
	139,07 X 5,34	140,41	149,71	1,52	140	149,4	**10BU 357/INT**
	142,24 X 5,34	143,59	152,89	1,52	143	152,4	**10BU 358/INT**
	145,42 X 5,34	146,76	156,06	1,52	146	155,4	**10BU 359/INT**
	148,59 X 5,34	149,94	159,24	1,52	150	159,4	**10BU 360/INT**
	151,77 X 5,34	153,11	162,41	1,52	152	161,4	**10BU 361/INT**
	158,12 X 5,34	159,46	168,76	1,52	159	168,4	**10BU 362/INT**
	164,47 X 5,34	165,81	175,11	1,52	165	174,4	**10BU 363/INT**
	170,82 X 5,34	172,16	181,46	1,52	172	181,4	**10BU 364/INT**
	177,17 X 5,34	178,51	187,81	1,52	178	187,4	**10BU 365/INT**
	183,52 X 5,34	184,86	194,16	1,52	184	193,4	**10BU 366/INT**
	189,87 X 5,34	191,21	200,51	1,52	191	200,4	**10BU 367/INT**
	196,22 X 5,34	197,56	206,86	1,52	197	206,4	**10BU 368/INT**
	202,57 X 5,34	203,91	213,21	1,52	203	212,4	**10BU 369/INT**
	208,92 X 5,34	210,26	219,56	1,52	210	219,4	**10BU 370/INT**
	215,27 X 5,34	216,61	225,91	1,52	216	225,4	**10BU 371/INT**
	221,62 X 5,34	222,96	232,26	1,52	222	231,4	**10BU 372/INT**
	227,97 X 5,34	229,31	238,61	1,52	229	238,4	**10BU 373/INT**
	234,32 X 5,34	235,66	244,96	1,52	235	244,4	**10BU 374/INT**
	240,67 X 5,34	242,01	251,31	1,52	241	250,4	**10BU 375/INT**
	247,02 X 5,34	248,36	257,66	1,52	248	257,4	**10BU 376/INT**
	253,37 X 5,34	254,71	264,01	1,52	254	263,4	**10BU 377/INT**
	266,07 X 5,34	267,41	276,71	1,52	267	276,4	**10BU 378/INT**
	278,77 X 5,34	280,11	289,41	1,52	280	289,4	**10BU 379/INT**
	291,47 X 5,34	292,81	302,11	1,52	292	301,4	**10BU 380/INT**
	304,17 X 5,34	305,51	314,81	1,52	305	314,4	**10BU 381/INT**
	329,57 X 5,34	330,91	340,21	1,52	330	339,4	**10BU 382/INT**
	354,97 X 5,34	356,31	365,61	1,52	356	365,4	**10BU 383/INT**
	113,67 X 7	115,6	127,58	1,52	114	126,2	**10BU 425/INT**
7	116,84 X 7	118,77	130,75	2,44	118	130,2	**10BU 426/INT**
(6,99)	120,02 X 7	121,95	133,93	2,44	121	133,2	**10BU 427/INT**
	123,19 X 7	125,2	137,18	2,44	124	136,2	**10BU 428/INT**
	126,37 X 7	128,3	140,28	2,44	127	139,2	**10BU 429/INT**
	129,54 X 7	131,47	143,45	2,44	130	142,2	**10BU 430/INT**
	132,72 X 7	134,65	146,63	2,44	134	146,2	**10BU 431/INT**
	135,89 X 7	137,82	149,8	2,44	137	149,2	**10BU 432/INT**
	139,07 X 7	141	152,98	2,44	140	152,2	**10BU 433/INT**
	142,24 X 7	144,17	156,15	2,44	143	155,2	**10BU 434/INT**

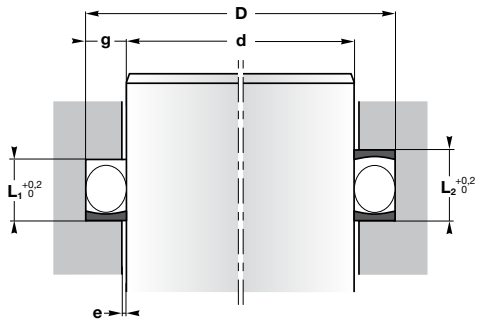


10BU.../INT

Example of item code

10BU 218/INT

Profile — AS/BS norm



Machining of housings: see page 81 and table 208

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 208

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

10BU back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a NBR elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the seal's service live**.

10BU rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

10BU back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-30°C to 110°C
Fluids	mineral oils, HFA, HFB, HFC

Materials — see pages 10-19

NBR 90 Sh A	colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

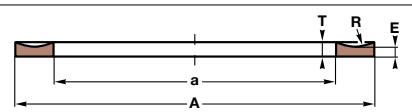
- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring	a	A	E	d	D	Reference
7	145,42 X 7	147,35	159,33	2,44	146	158,2	**10BU 435/INT**
(6,99)	148,59 X 7	150,52	162,5	2,44	150	162,2	**10BU 436/INT**
	151,77 X 7	153,7	165,68	2,44	153	165,2	**10BU 437/INT**
	158,12 X 7	159,36	171,34	2,44	159	171,2	**10BU 438/INT**
	164,47 X 7	165,71	177,69	2,44	165	177,2	**10BU 439/INT**
	170,82 X 7	172,06	184,04	2,44	172	184,2	**10BU 440/INT**
	177,17 X 7	178,41	190,39	2,44	178	190,2	**10BU 441/INT**
	183,52 X 7	184,76	196,74	2,44	185	197,2	**10BU 442/INT**
	189,87 X 7	191,11	203,09	2,44	190	202,2	**10BU 443/INT**
	196,22 X 7	197,46	209,44	2,44	197	209,2	**10BU 444/INT**
	202,57 X 7	203,81	215,79	2,44	203	215,2	**10BU 445/INT**
	215,27 X 7	216,51	228,49	2,44	216	228,2	**10BU 446/INT**
	227,97 X 7	229,21	241,19	2,44	229	241,2	**10BU 447/INT**
	240,67 X 7	241,91	253,89	2,44	241	253,2	**10BU 448/INT**
	253,37 X 7	254,61	266,59	2,44	254	266,2	**10BU 449/INT**
	266,07 X 7	267,31	279,29	2,44	267	279,2	**10BU 450/INT**
	278,77 X 7	280,01	291,99	2,44	280	292,2	**10BU 451/INT**
	291,47 X 7	292,71	304,69	2,44	292	304,2	**10BU 452/INT**
	304,17 X 7	305,41	317,39	2,44	305	317,2	**10BU 453/INT**
	316,87 X 7	318,11	330,09	2,44	318	330,2	**10BU 454/INT**
	329,57 X 7	330,81	342,79	2,44	330	342,2	**10BU 455/INT**
	342,27 X 7	343,51	355,49	2,44	343	355,2	**10BU 456/INT**
	354,97 X 7	356,21	368,19	2,44	356	368,2	**10BU 457/INT**
	367,67 X 7	368,91	380,89	2,44	368	380,2	**10BU 458/INT**
	380,37 X 7	381,61	393,59	2,44	381	393,2	**10BU 459/INT**
	393,07 X 7	394,31	406,29	2,44	394	406,2	**10BU 460/INT**
	405,26 X 7	406,5	418,48	2,44	407	419,2	**10BU 461/INT**
	417,96 X 7	419,2	431,18	2,44	420	432,2	**10BU 462/INT**
	430,66 X 7	431,9	443,88	2,44	432	444,2	**10BU 463/INT**
	443,36 X 7	444,6	456,58	2,44	445	457,2	**10BU 464/INT**
	456,06 X 7	457,3	469,28	2,44	458	470,2	**10BU 465/INT**
	468,76 X 7	470	481,98	2,44	470	482,2	**10BU 466/INT**
	481,46 X 7	482,7	494,68	2,44	483	495,2	**10BU 467/INT**
	494,16 X 7	495,4	507,38	2,44	495	507,2	**10BU 468/INT**
	506,86 X 7	508,1	520,08	2,44	508	520,2	**10BU 469/INT**

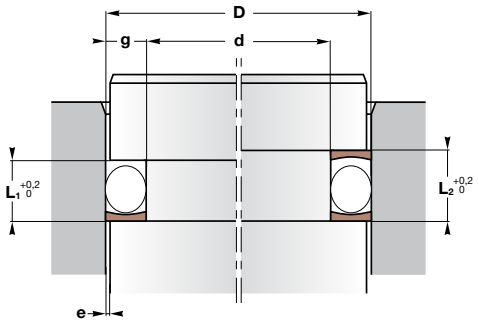


11BU...FPM

Example of item code

11BU 218 FPM

Profile — AS/BS norm



Machining of housings: see page 81 and table 210

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 210

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

11BU...FPM back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a Viton® elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the lifetime of the O-ring**.

11BU...FPM rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

11BU...FPM back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-20°C to 200°C
Fluids	mineral oils, HFA, HFB, HFD

Materials — see pages 10-19

FPM 90 Sh A	colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

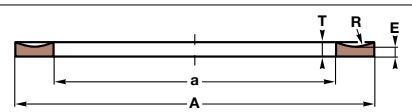
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	A	a	E	D	d	Reference
1,78	2,57 x 1,78	5,93	3,23	1,14	6	3,1	**11BU 005 FPM**
	4,47 x 1,78	7,83	5,13	1,14	8	5,1	**11BU 008 FPM**
	9,25 x 1,78	12,61	9,91	1,14	13	10,1	**11BU 012 FPM**
	15,6 x 1,78	19,03	16,33	1,14	19	16,1	**11BU 016 FPM**
	18,77 x 1,78	22,21	19,51	1,14	22	19,1	**11BU 018 FPM**
	25,12 x 1,78	28,56	25,86	1,14	29	26,1	**11BU 022 FPM**
	28,3 x 1,78	31,73	29,03	1,14	32	29,1	**11BU 024 FPM**
	34,65 x 1,78	38,08	35,38	1,14	38	35,1	**11BU 028 FPM**
	37,82 x 1,78	41,26	38,56	1,14	41	38,1	**11BU 029 FPM**
2,62	6,02 x 2,62	11,09	6,73	1,14	11	6,5	**11BU 108 FPM**
	10,77 x 2,62	15,84	11,48	1,14	16	11,5	**11BU 111 FPM**
	12,37 x 2,62	17,44	13,08	1,14	17	12,5	**11BU 112 FPM**
	15,54 x 2,62	20,62	16,26	1,14	21	16,5	**11BU 114 FPM**
	26,64 x 2,62	31,82	27,46	1,14	32	27,5	**11BU 121 FPM**
	29,82 x 2,62	34,99	30,63	1,14	35	30,5	**11BU 123 FPM**
	32,99 x 2,62	38,17	33,81	1,14	38	33,5	**11BU 125 FPM**
	36,17 x 2,62	41,34	36,98	1,14	41	36,5	**11BU 127 FPM**
	39,34 x 2,62	44,52	40,16	1,14	44,5	40	**11BU 129 FPM**
	40,94 x 2,62	46,09	41,73	1,14	46	41,5	**11BU 130 FPM**
	42,52 x 2,62	47,69	43,33	1,14	48	43,5	**11BU 131 FPM**
	44,12 x 2,62	49,27	44,91	1,14	50	45,5	**11BU 132 FPM**
	45,69 x 2,62	50,87	46,51	1,14	51	46,5	**11BU 133 FPM**
	53,64 x 2,62	58,79	54,43	1,14	58	53,5	**11BU 138 FPM**
	55,25 x 2,62	60,39	56,03	1,14	60	55,5	**11BU 139 FPM**
	63,17 x 2,62	68,32	63,96	1,14	68	63,5	**11BU 144 FPM**
	75,87 x 2,62	81,02	76,66	1,14	81	76,5	**11BU 151 FPM**
3,53	24,99 x 3,53	31,81	25,81	1,02	32	25,8	**11BU 214 FPM**
	32,92 x 3,53	39,88	33,88	1,02	40	33,8	**11BU 219 FPM**
	36,09 x 3,53	43,06	37,06	1,02	43	36,8	**11BU 221 FPM**
	37,69 x 3,53	44,66	38,66	1,02	44,5	38,3	**11BU 222 FPM**
	40,87 x 3,53	47,83	41,83	1,02	48	41,8	**11BU 223 FPM**
	44,04 x 3,53	51,01	45,01	1,02	51	44,8	**11BU 224 FPM**
	47,22 x 3,53	54,18	48,18	1,02	54	47,8	**11BU 225 FPM**
	53,57 x 3,53	60,53	54,53	1,02	60	53,8	**11BU 227 FPM**
	56,74 x 3,53	63,71	57,71	1,02	63,5	57,3	**11BU 228 FPM**
	59,92 x 3,53	66,88	60,88	1,02	67	60,8	**11BU 229 FPM**
	63,09 x 3,53	70,06	64,06	1,02	70	63,8	**11BU 230 FPM**
	66,27 x 3,53	72,83	66,83	1,02	73	66,8	**11BU 231 FPM**
	72,62 x 3,53	79,18	73,18	1,02	79	72,8	**11BU 233 FPM**
	75,79 x 3,53	82,35	76,35	1,02	83	76,8	**11BU 234 FPM**
	78,97 x 3,53	85,53	79,53	1,02	86	79,8	**11BU 235 FPM**
	82,14 x 3,53	88,7	82,7	1,02	89	82,8	**11BU 236 FPM**
	88,49 x 3,53	95,05	89,05	1,02	95	88,8	**11BU 238 FPM**
	91,67 x 3,53	98,23	92,23	1,02	98	91,8	**11BU 239 FPM**
	94,84 x 3,53	101,4	95,4	1,02	102	95,8	**11BU 240 FPM**
	104,37 x 3,53	110,93	104,93	1,02	111	104,8	**11BU 243 FPM**
	117,07 x 3,53	123,63	117,63	1,02	124	117,8	**11BU 247 FPM**
	120,24 x 3,53	127,11	121,11	1,02	127	120,8	**11BU 248 FPM**
	132,94 x 3,53	139,81	133,81	1,02	140	133,8	**11BU 252 FPM**
	151,99 x 3,53	158,86	152,86	1,02	159	152,8	**11BU 258 FPM**
	171,04 x 3,53	177,91	171,91	1,02	190,5	184,3	**11BU 261 FPM**

11BU...FPM seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

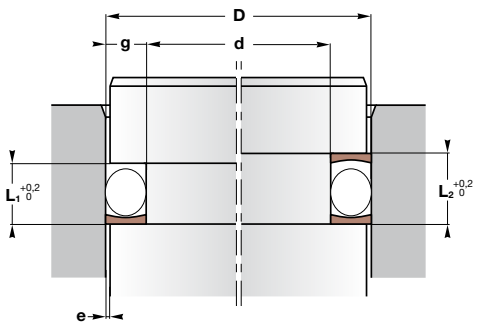


11BU...FPM

Example of item code

11BU 218 FPM

Profile — AS/BS norm



Machining of housings: see page 81 and table 212

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 212

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

11BU...FPM back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a Viton® elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the lifetime of the O-ring**.

11BU...FPM rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

11BU...FPM back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions	**see page 8**
Pressure	≤ 40 MPa
Temperature	-20°C to 200°C
Fluids	mineral oils, HFA, HFB, HFD

Materials	**see pages 10-19**
FPM 90 Sh A	colour: black

Assembly	**see pages 54-59**
In one-piece housings	

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

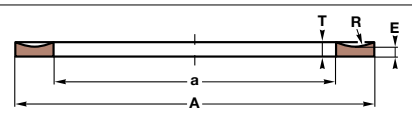
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	A	a	E	D	d	Reference
5,34	26,34 x 5,34	36,61	27,31	1,52	36,5	27,1	**11BU 319 FPM**
	34,29 x 5,34	44,56	35,26	1,52	44,5	35,1	**11BU 324 FPM**
	56,52 x 5,34	66,91	57,61	1,52	67	57,6	**11BU 331 FPM**
	78,74 x 5,34	89,13	79,83	1,52	89	79,6	**11BU 338 FPM**
	81,92 x 5,34	92,43	83,13	1,52	92	82,6	**11BU 339 FPM**
	88,27 x 5,34	98,78	89,48	1,52	98	88,6	**11BU 341 FPM**
	91,44 x 5,34	101,96	92,66	1,52	102	92,6	**11BU 342 FPM**
	100,97 x 5,34	111,61	102,31	1,52	111	101,6	**11BU 345 FPM**
	104,14 x 5,34	114,79	105,49	1,52	114	104,6	**11BU 346 FPM**
	110,49 x 5,34	121,14	111,84	1,52	121	111,6	**11BU 348 FPM**
	113,67 x 5,34	124,31	115,01	1,52	124	114,6	**11BU 349 FPM**
	116,84 x 5,34	127,49	118,19	1,52	127	117,6	**11BU 350 FPM**
	123,19 x 5,34	133,84	124,54	1,52	133	123,6	**11BU 352 FPM**
	126,37 x 5,34	137,01	127,71	1,52	137	127,6	**11BU 353 FPM**
	129,54 x 5,34	140,19	130,89	1,52	140	130,6	**11BU 354 FPM**
	151,77 x 5,34	162,41	153,11	1,52	162	152,6	**11BU 361 FPM**
	158,12 x 5,34	168,76	159,46	1,52	168	158,6	**11BU 362 FPM**
	183,52 x 5,34	194,16	184,86	1,52	194	184,6	**11BU 366 FPM**
	189,87 x 5,34	200,51	191,21	1,52	200	190,6	**11BU 367 FPM**
	196,22 x 5,34	206,86	197,56	1,52	206	196,6	**11BU 368 FPM**
	208,92 x 5,34	219,56	210,26	1,52	220	210,6	**11BU 370 FPM**
	253,37 x 5,34	264,01	254,71	1,52	264	254,6	**11BU 377 FPM**
	354,97 x 5,34	365,61	356,31	1,52	366	356,6	**11BU 383 FPM**
	380,37 x 5,34	391,01	381,71	1,52	390	380,6	**11BU 384 FPM**
7	145,42 x 7	159,33	147,35	2,44	159	146,8	**11BU 435 FPM**
(6,99)	164,47 x 7	177,69	165,71	2,44	178	165,8	**11BU 439 FPM**
	183,52 x 7	196,74	184,76	2,44	197	184,8	**11BU 442 FPM**
	202,57 x 7	215,79	203,81	2,44	216	203,8	**11BU 445 FPM**
	227,97 x 7	241,19	229,21	2,44	241	228,8	**11BU 447 FPM**
	304,17 x 7	317,39	305,41	2,44	318	305,8	**11BU 453 FPM**
	329,57 x 7	342,79	330,81	2,44	343	330,8	**11BU 455 FPM**
	342,27 x 7	355,49	343,51	2,44	356	343,8	**11BU 456 FPM**
	582,68 x 7	596,28	584,3	2,44	597	584,8	**11BU 472 FPM**

11BU...FPM seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

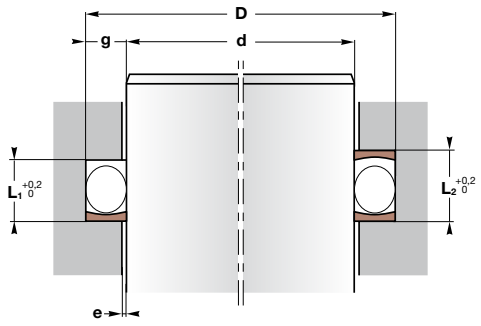


11BU...FPM/INT

Example of item code

11BU 218 FPM/INT

Profile — AS/BS norm



Machining of housings: see page 81 and table 214

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 214

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

11BU...FPM/INT back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a Viton® elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the lifetime of the O-ring**.

11BU...FPM/INT rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

11BU...FPM/INT back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-20°C to 200°C
Fluids	mineral oils, HFA, HFB, HFD

Materials — see pages 10-19

FPM 90 Sh A	colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

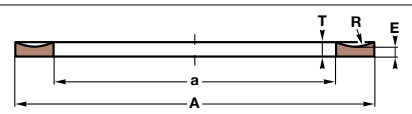
- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

O-ring cross section	O-ring	a	A	E	d	D	Reference
1,78	2,57 x 1,78	3,23	5,93	1,14	2,5	5,4	**11BU 005 FPM/INT**
	4,47 x 1,78	5,13	7,83	1,14	5	7,9	**11BU 008 FPM/INT**
	9,25 x 1,78	9,91	12,61	1,14	9,5	12,4	**11BU 012 FPM/INT**
	15,6 x 1,78	16,33	19,03	1,14	16	18,9	**11BU 016 FPM/INT**
	18,77 x 1,78	19,51	22,21	1,14	19	21,9	**11BU 018 FPM/INT**
	25,12 x 1,78	25,86	28,56	1,14	25	27,9	**11BU 022 FPM/INT**
	28,3 x 1,78	29,03	31,73	1,14	29	31,9	**11BU 024 FPM/INT**
	34,65 x 1,78	35,38	38,08	1,14	35	37,9	**11BU 028 FPM/INT**
	37,82 x 1,78	38,56	41,26	1,14	38	40,9	**11BU 029 FPM/INT**
2,62	6,02 x 2,62	6,73	11,09	1,14	6,5	11	**11BU 108 FPM/INT**
	10,77 x 2,62	11,48	15,84	1,14	11	15,5	**11BU 111 FPM/INT**
	12,37 x 2,62	13,08	17,44	1,14	13	17,5	**11BU 112 FPM/INT**
	15,54 x 2,62	16,26	20,62	1,14	16	20,5	**11BU 114 FPM/INT**
	26,64 x 2,62	27,46	31,82	1,14	27	31,5	**11BU 121 FPM/INT**
	29,82 x 2,62	30,63	34,99	1,14	30	34,5	**11BU 123 FPM/INT**
	32,99 x 2,62	33,81	38,17	1,14	33	37,5	**11BU 125 FPM/INT**
	36,17 x 2,62	36,98	41,34	1,14	36,5	41	**11BU 127 FPM/INT**
	39,34 x 2,62	40,16	44,52	1,14	40	44,5	**11BU 129 FPM/INT**
	40,94 x 2,62	41,73	46,09	1,14	41	45,5	**11BU 130 FPM/INT**
	42,52 x 2,62	43,33	47,69	1,14	43	47,5	**11BU 131 FPM/INT**
	44,12 x 2,62	44,91	49,27	1,14	44,5	49	**11BU 132 FPM/INT**
	45,69 x 2,62	46,51	50,87	1,14	46	50,5	**11BU 133 FPM/INT**
	53,64 x 2,62	54,43	58,79	1,14	54	58,5	**11BU 138 FPM/INT**
	55,25 x 2,62	56,03	60,39	1,14	55	59,5	**11BU 139 FPM/INT**
	63,17 x 2,62	63,96	68,32	1,14	63	67,5	**11BU 144 FPM/INT**
	75,87 x 2,62	76,66	81,02	1,14	76	80,5	**11BU 151 FPM/INT**
3,53	24,99 x 3,53	25,81	31,81	1,02	25	31,2	**11BU 214 FPM/INT**
	32,92 x 3,53	33,88	39,88	1,02	33	39,2	**11BU 219 FPM/INT**
	36,09 x 3,53	37,06	43,06	1,02	36	42,2	**11BU 221 FPM/INT**
	37,69 x 3,53	38,66	44,66	1,02	38	44,2	**11BU 222 FPM/INT**
	40,87 x 3,53	41,83	47,83	1,02	41	47,2	**11BU 223 FPM/INT**
	44,04 x 3,53	45,01	51,01	1,02	44,5	50,7	**11BU 224 FPM/INT**
	47,22 x 3,53	48,18	54,18	1,02	48	54,2	**11BU 225 FPM/INT**
	53,57 x 3,53	54,53	60,53	1,02	54	60,2	**11BU 227 FPM/INT**
	56,74 x 3,53	57,71	63,71	1,02	57	63,2	**11BU 228 FPM/INT**
	59,92 x 3,53	60,88	66,88	1,02	60	66,2	**11BU 229 FPM/INT**
	63,09 x 3,53	64,06	70,06	1,02	63,5	69,7	**11BU 230 FPM/INT**
	66,27 x 3,53	66,83	72,83	1,02	67	73,2	**11BU 231 FPM/INT**
	72,62 x 3,53	73,18	79,18	1,02	73	79,2	**11BU 233 FPM/INT**
	75,79 x 3,53	76,35	82,35	1,02	76	82,2	**11BU 234 FPM/INT**
	78,97 x 3,53	79,53	85,53	1,02	79,5	85,7	**11BU 235 FPM/INT**
	82,14 x 3,53	82,7	88,7	1,02	83	89,2	**11BU 236 FPM/INT**
	88,49 x 3,53	89,05	95,05	1,02	90	96,2	**11BU 238 FPM/INT**
	91,67 x 3,53	92,23	98,23	1,02	92	98,2	**11BU 239 FPM/INT**
	94,84 x 3,53	95,4	101,4	1,02	95	101,2	**11BU 240 FPM/INT**
	104,37 x 3,53	104,93	110,93	1,02	105	111,2	**11BU 243 FPM/INT**
	117,07 x 3,53	117,63	123,63	1,02	118	124,2	**11BU 247 FPM/INT**
	120,24 x 3,53	121,11	127,11	1,02	121	127,2	**11BU 248 FPM/INT**
	132,94 x 3,53	133,81	139,81	1,02	133	139,2	**11BU 252 FPM/INT**
	151,99 x 3,53	152,86	158,86	1,02	152	158,2	**11BU 258 FPM/INT**
	171,04 x 3,53	171,91	177,91	1,02	172	178,2	**11BU 261 FPM/INT**

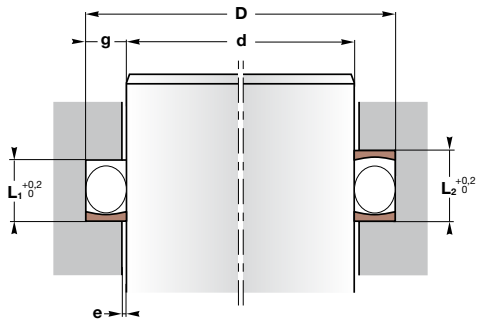


11BU...FPM/INT

Example of item code

11BU 218 FPM/INT

Profile — AS/BS norm



Machining of housings: see page 81 and table 216

Pressure (MPa)	25	30	35	40
e max (mm)	0,2	0,15	0,1	0,05

Table 216

O-ring Cs	g	L1	L2	E	T
1,78	1,45	3,6	5	1,14	1,24
2,62	2,25	4,5	5,9	1,14	1,35
3,53	3,1	5,6	7	1,02	1,27
5,34	4,7	7,9	9,6	1,52	1,93
7	6,1	10,7	13,2	2,44	2,97

11BU...FPM/INT back-up ring is a closed ring with a concave shaped cross-section. For these back-up rings, we use a Viton® elastomer of 90°shore A hardness to guarantee a high level of resistance to extrusion and abrasion.

Their design tends to keep the O-ring in its original form, even at high pressure. They minimize distortion of the O-ring who can therefore withstand better against higher pressure loads. This produces a better sealing effect and **increases the lifetime of the O-ring**.

11BU...FPM/INT rings are continuous. They do not have a cut (unlike open PTFE rings) and they can be stretched over a piston during assembly. Hence they contact the O-ring uniformly, and do not cause localised wear spots.

11BU...FPM/INT back-up ring has a symmetrical profile and can therefore be used in both internal and external sealing systems.

Operating conditions — see page 8

Pressure	≤ 40 MPa
Temperature	-20°C to 200°C
Fluids	mineral oils, HFA, HFB, HFD

Materials — see pages 10-19

FPM 90 Sh A	colour: black

Assembly — see pages 54-59

In one-piece housings

Advantages

- Easy assembly
- Closed ring (uncut)
- For inner and outer housings
- Extended service life of the O-ring

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	a	A	E	d	D	Reference
5,34	26,34 x 5,34	27,31	36,61	1,52	27	36,4	**11BU 319 FPM/INT**
	34,29 x 5,34	35,26	44,56	1,52	35	44,4	**11BU 324 FPM/INT**
	56,52 x 5,34	57,61	66,91	1,52	57	66,4	**11BU 331 FPM/INT**
	78,74 x 5,34	79,83	89,13	1,52	80	89,4	**11BU 338 FPM/INT**
	81,92 x 5,34	83,13	92,43	1,52	83	92,4	**11BU 339 FPM/INT**
	88,27 x 5,34	89,48	98,78	1,52	90	99,4	**11BU 341 FPM/INT**
	91,44 x 5,34	92,66	101,96	1,52	92	101,4	**11BU 342 FPM/INT**
	100,97 x 5,34	102,31	111,61	1,52	102	111,4	**11BU 345 FPM/INT**
	104,14 x 5,34	105,49	114,79	1,52	105	114,4	**11BU 346 FPM/INT**
	110,49 x 5,34	111,84	121,14	1,52	111	120,4	**11BU 348 FPM/INT**
	113,67 x 5,34	115,01	124,31	1,52	114	123,4	**11BU 349 FPM/INT**
	116,84 x 5,34	118,19	127,49	1,52	118	127,4	**11BU 350 FPM/INT**
	123,19 x 5,34	124,54	133,84	1,52	124	133,4	**11BU 352 FPM/INT**
	126,37 x 5,34	127,71	137,01	1,52	127	136,4	**11BU 353 FPM/INT**
	129,54 x 5,34	130,89	140,19	1,52	130	139,4	**11BU 354 FPM/INT**
	151,77 x 5,34	153,11	162,41	1,52	152	161,4	**11BU 361 FPM/INT**
	158,12 x 5,34	159,46	168,76	1,52	159	168,4	**11BU 362 FPM/INT**
	183,52 x 5,34	184,86	194,16	1,52	184	193,4	**11BU 366 FPM/INT**
	189,87 x 5,34	191,21	200,51	1,52	191	200,4	**11BU 367 FPM/INT**
	196,22 x 5,34	197,56	206,86	1,52	197	206,4	**11BU 368 FPM/INT**
	208,92 x 5,34	210,26	219,56	1,52	210	219,4	**11BU 370 FPM/INT**
	253,37 x 5,34	254,71	264,01	1,52	254	263,4	**11BU 377 FPM/INT**
	354,97 x 5,34	356,31	365,61	1,52	356	365,4	**11BU 383 FPM/INT**
	380,37 x 5,34	381,71	391,01	1,52	382	391,4	**11BU 384 FPM/INT**
7	145,42 x 7	147,35	159,33	2,44	146	158,2	**11BU 435 FPM/INT**
(6,99)	164,47 x 7	165,71	177,69	2,44	165	177,2	**11BU 439 FPM/INT**
	183,52 x 7	184,76	196,74	2,44	185	197,2	**11BU 442 FPM/INT**
	202,57 x 7	203,81	215,79	2,44	203	215,2	**11BU 445 FPM/INT**
	227,97 x 7	229,21	241,19	2,44	229	241,2	**11BU 447 FPM/INT**
	304,17 x 7	305,41	317,39	2,44	305	317,2	**11BU 453 FPM/INT**
	329,57 x 7	330,81	342,79	2,44	330	342,2	**11BU 455 FPM/INT**
	342,27 x 7	343,51	355,49	2,44	343	355,2	**11BU 456 FPM/INT**
	582,68 x 7	584,3	596,28	2,44	584	596,2	**11BU 472 FPM/INT**

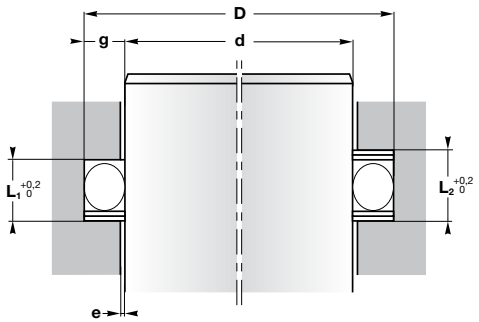
11BU...FPM/INT seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

10BR

Example of item code

10BR 218

Profile — AS/BS norm



Machining of housings: see page 81 and table 218

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 218

d (O-ring)	**g**	**L1**	**L2**	**E**
1,78	1,55	3,8	5,2	1,4
2,62	2,25	5	6,4	1,4
3,53	3,1	6,2	7,6	1,4
5,34	4,7	8,8	10,5	1,7
7	6,1	12	14,5	2,5

PTFE anti-extrusion rings **10BR** consists of two spiral windings which are cut at the ends at an angle.

These discontinuities may contribute to seal damage due to biting and pinching.

They are preferred for installations in a closed groove where uncut back-up rings are not suitable

This back-up ring can **compensate** large temperature changes and tolerances.

In addition to the good chemical resistance of the PTFE material, they may be used over a wide temperature range.

By cutting the spiral, it is possible to use it also for smaller dimensions.

Limited to 25 MPa in dynamic applications.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-200°C to 260°C
Fluids	mineral oils HFA, HFB, HFC, HFD, steam

Materials	**see pages 10-19**
PTFE	PT01

Assembly	**see pages 54-59**
In one-piece housings	

Advantages

- Very good chemical resistance
- Wide temperature range
- The **10BR** ring can be cut in order to assemble it in a groove with a smaller diameter

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

The back-up rings **10BR** are made for internal housings but there is also possible to assemble them on external housings.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	d	D	E	Reference
1,78	2,9 x 1,78	3	6,1	1,4	**10BR 006**
	3,68 x 1,78	4	7,1	1,4	**10BR 007**
	4,47 x 1,78	4,5	7,6	1,4	**10BR 008**
	5,28 x 1,78	5	8,1	1,4	**10BR 009**
	6,07 x 1,78	7	10,1	1,4	**10BR 010**
	6,75 x 1,78	7	10,1	1,4	**10BR 610**
	7,65 x 1,78	8	11,1	1,4	**10BR 011**
	8,73 x 1,78	9	12,1	1,4	**10BR 611**
	9,25 x 1,78	9	12,1	1,4	**10BR 012**
	10,82 x 1,78	11	14,1	1,4	**10BR 013**
	12,42 x 1,78	13	16,1	1,4	**10BR 014**
	14,0 x 1,78	14	17,1	1,4	**10BR 015**
	15,6 x 1,78	16	19,1	1,4	**10BR 016**
	17,17 x 1,78	17	20,1	1,4	**10BR 017**
	18,77 x 1,78	19	22,1	1,4	**10BR 018**
	20,35 x 1,78	21	24,1	1,4	**10BR 019**
	21,95 x 1,78	22	25,1	1,4	**10BR 020**
	23,52 x 1,78	24	27,1	1,4	**10BR 021**
	25,12 x 1,78	25	28,1	1,4	**10BR 022**
	26,7 x 1,78	27	30,1	1,4	**10BR 023**
	28,3 x 1,78	28	31,1	1,4	**10BR 024**
	29,87 x 1,78	30	33,1	1,4	**10BR 025**
	31,47 x 1,78	32	35,1	1,4	**10BR 026**
	33,05 x 1,78	33	36,1	1,4	**10BR 027**
	34,65 x 1,78	35	38,1	1,4	**10BR 028**
	47,35 x 1,78	48	51,1	1,4	**10BR 032**
	60,05 x 1,78	60	63,1	1,4	**10BR 036**
2,62	9,19 x 2,62	10	14,5	1,4	**10BR 110**
	9,9 x 2,62	10	14,5	1,4	**10BR 613**
	10,77 x 2,62	11	15,5	1,4	**10BR 111**
	11,91 x 2,62	12	16,5	1,4	**10BR 614**
	12,37 x 2,62	12,5	17	1,4	**10BR 112**
	13,1 x 2,62	13	17,5	1,4	**10BR 615**
	13,94 x 2,62	14	18,5	1,4	**10BR 113**
	15,08 x 2,62	15	19,5	1,4	**10BR 616**
	15,54 x 2,62	16	20,5	1,4	**10BR 114**
	15,88 x 2,62	16	20,5	1,4	**10BR 809**
	17,12 x 2,62	17	21,5	1,4	**10BR 115**
	17,86 x 2,62	18	22,5	1,4	**10BR 617**
	18,72 x 2,62	19	23,5	1,4	**10BR 116**
	20,3 x 2,62	20	24,5	1,4	**10BR 117**
	20,64 x 2,62	21	25,5	1,4	**10BR 812**

O-ring cross section	O-ring	d	D	E	Reference
2,62	21,89 x 2,62	22	26,5	1,4	**10BR 118**
	23,47 x 2,62	24	28,5	1,4	**10BR 119**
	25,07 x 2,62	25	29,5	1,4	**10BR 120**
	26,64 x 2,62	27	31,5	1,4	**10BR 121**
	28,24 x 2,62	28	32,5	1,4	**10BR 122**
	29,82 x 2,62	30	34,5	1,4	**10BR 123**
	31,42 x 2,62	32	36,5	1,4	**10BR 124**
	32,99 x 2,62	33	37,5	1,4	**10BR 125**
	34,59 x 2,62	35	39,5	1,4	**10BR 126**
	36,17 x 2,62	36	40,5	1,4	**10BR 127**
	37,77 x 2,62	38	42,5	1,4	**10BR 128**
	39,34 x 2,62	40	44,5	1,4	**10BR 129**
	40,94 x 2,62	41	45,5	1,4	**10BR 130**
	42,52 x 2,62	43	47,5	1,4	**10BR 131**
	44,12 x 2,62	44	48,5	1,4	**10BR 132**
	45,69 x 2,62	46	50,5	1,4	**10BR 133**
	47,29 x 2,62	48	52,5	1,4	**10BR 134**
	48,9 x 2,62	49	53,5	1,4	**10BR 135**
	50,47 x 2,62	51	55,5	1,4	**10BR 136**
	52,07 x 2,62	52	56,5	1,4	**10BR 137**
	53,64 x 2,62	54	58,5	1,4	**10BR 138**
	55,25 x 2,62	55	59,5	1,4	**10BR 139**
	56,82 x 2,62	57	61,5	1,4	**10BR 140**
	58,42 x 2,62	59	63,5	1,4	**10BR 141**
	59,99 x 2,62	60	64,5	1,4	**10BR 142**
	61,6 x 2,62	62	66,5	1,4	**10BR 143**
	63,17 x 2,62	63	67,5	1,4	**10BR 144**
	64,77 x 2,62	65	69,5	1,4	**10BR 145**
	66,34 x 2,62	67	71,5	1,4	**10BR 146**
	67,95 x 2,62	68	72,5	1,4	**10BR 147**
	69,52 x 2,62	70	74,5	1,4	**10BR 148**
	71,12 x 2,62	71	75,5	1,4	**10BR 149**
	72,69 x 2,62	73	77,5	1,4	**10BR 150**
	75,87 x 2,62	76	80,5	1,4	**10BR 151**
	82,22 x 2,62	82	86,5	1,4	**10BR 152**
	88,57 x 2,62	89	93,5	1,4	**10BR 153**
	94,92 x 2,62	95	99,5	1,4	**10BR 154**
	107,62 x 2,62	108	112,5	1,4	**10BR 156**
	113,97 x 2,62	114	118,5	1,4	**10BR 157**
3,53	18,64 x 3,53	19	25,2	1,4	**10BR 210**
	20,22 x 3,53	20	26,2	1,4	**10BR 211**
	21,82 x 3,53	22	28,2	1,4	**10BR 212**

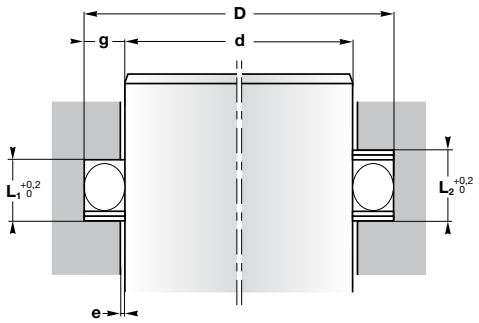
10BR seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

10BR

Example of item code

10BR 218

Profile — AS/BS norm



Machining of housings: see page 81 and table 220

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

Table 220

d (O-ring)	**g**	**L1**	**L2**	**E**
1,78	1,55	3,8	5,2	1,4
2,62	2,25	5	6,4	1,4
3,53	3,1	6,2	7,6	1,4
5,34	4,7	8,8	10,5	1,7
7	6,1	12	14,5	2,5

PTFE anti-extrusion rings **10BR** consists of two spiral windings which are cut at the ends at an angle.

These discontinuities may contribute to seal damage due to biting and pinching.

They are preferred for installations in a closed groove where uncut back-up rings are not suitable

This back-up ring can **compensate** large temperature changes and tolerances.

In addition to the good chemical resistance of the PTFE material, they may be used over a wide temperature range.

By cutting the spiral, it is possible to use it also for smaller dimensions.

Limited to 25 MPa in dynamic applications.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-200°C to 260°C
Fluids	mineral oils HFA, HFB, HFC, HFD, steam

Materials	**see pages 10-19**
PTFE	PT01

Assembly	**see pages 54-59**
In one-piece housings	

Advantages

- Very good chemical resistance
- Wide temperature range
- The **10BR** ring can be cut in order to assemble it in a groove with a smaller diameter

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

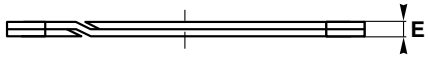
The back-up rings **10BR** are made for internal housings but there is also possible to assemble them on external housings.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

O-ring cross section	O-ring	d	D	E	Reference
3,53	23,39 x 3,53	23	29,2	1,4	**10BR 213**
	24,99 x 3,53	25	31,2	1,4	**10BR 214**
	25,8 x 3,53	26	32,2	1,4	**10BR 618**
	26,57 x 3,53	27	33,2	1,4	**10BR 215**
	28,17 x 3,53	28	34,2	1,4	**10BR 216**
	29,74 x 3,53	30	36,2	1,4	**10BR 217**
	31,34 x 3,53	31	37,2	1,4	**10BR 218**
	32,92 x 3,53	33	39,2	1,4	**10BR 219**
	34,52 x 3,53	35	41,2	1,4	**10BR 220**
	36,09 x 3,53	36	42,2	1,4	**10BR 221**
	37,69 x 3,53	38	44,2	1,4	**10BR 222**
	39,7 x 3,53	40	46,2	1,4	**10BR 824**
	40,87 x 3,53	42	48,2	1,4	**10BR 223**
	41,28 x 3,53	42	48,2	1,4	**10BR 825**
	42,86 x 3,53	43	49,2	1,4	**10BR 826**
	44,04 x 3,53	45	51,2	1,4	**10BR 224**
	46,04 x 3,53	46	52,2	1,4	**10BR 828**
	47,22 x 3,53	48	54,2	1,4	**10BR 225**
	47,62 x 3,53	48	54,2	1,4	**10BR 829**
	49,2 x 3,53	49	55,2	1,4	**10BR 830**
	50,39 x 3,53	51	57,2	1,4	**10BR 226**
	52,4 x 3,53	52	58,2	1,4	**10BR 832**
	53,57 x 3,53	54	60,2	1,4	**10BR 227**
	55,56 x 3,53	56	62,2	1,4	**10BR 834**
	56,74 x 3,53	57	63,2	1,4	**10BR 228**
	58,74 x 3,53	59	65,2	1,4	**10BR 836**
	59,92 x 3,53	60	66,2	1,4	**10BR 229**
	61,9 x 3,53	62	68,2	1,4	**10BR 838**
	63,09 x 3,53	64	70,2	1,4	**10BR 230**
	65,1 x 3,53	65	71,2	1,4	**10BR 840**
	66,27 x 3,53	67	73,2	1,4	**10BR 231**
	68,26 x 3,53	68	74,2	1,4	**10BR 842**
	69,44 x 3,53	70	76,2	1,4	**10BR 232**
	69,85 x 3,53	70	76,2	1,4	**10BR 843**
	71,44 x 3,53	72	78,2	1,4	**10BR 844**
	72,62 x 3,53	73	79,2	1,4	**10BR 233**
	74,6 x 3,53	75	81,2	1,4	**10BR 846**
	75,79 x 3,53	76	82,2	1,4	**10BR 234**
	78,97 x 3,53	79	85,2	1,4	**10BR 235**
	82,14 x 3,53	82	88,2	1,4	**10BR 236**
	85,32 x 3,53	85	91,2	1,4	**10BR 237**
	88,49 x 3,53	89	95,2	1,4	**10BR 238**

O-ring cross section	O-ring	d	D	E	Reference
3,53	91,67 x 3,53	92	98,2	1,4	**10BR 239**
	94,84 x 3,53	95	101,2	1,4	**10BR 240**
	98,02 x 3,53	98	104,2	1,4	**10BR 241**
	101,19 x 3,53	101	107,2	1,4	**10BR 242**
	104,37 x 3,53	105	111,2	1,4	**10BR 243**
	107,54 x 3,53	108	114,2	1,4	**10BR 244**
	110,72 x 3,53	111	117,2	1,4	**10BR 245**
	113,89 x 3,53	114	120,2	1,4	**10BR 246**
	117,07 x 3,53	117	123,2	1,4	**10BR 247**
	120,24 x 3,53	120	126,2	1,4	**10BR 248**
	123,42 x 3,53	123	129,2	1,4	**10BR 249**
	126,59 x 3,53	127	133,2	1,4	**10BR 250**
	129,77 x 3,53	130	136,2	1,4	**10BR 251**
	132,94 x 3,53	133	139,2	1,4	**10BR 252**
	136,12 x 3,53	136	142,2	1,4	**10BR 253**
	139,29 x 3,53	140	146,2	1,4	**10BR 254**
	142,47 x 3,53	143	149,2	1,4	**10BR 255**
	145,64 x 3,53	146	152,2	1,4	**10BR 256**
	148,82 x 3,53	149	155,2	1,4	**10BR 257**
	151,99 x 3,53	152	158,2	1,4	**10BR 258**
	158,34 x 3,53	159	165,2	1,4	**10BR 259**
	164,69 x 3,53	165	171,2	1,4	**10BR 260**
	171,04 x 3,53	172	178,2	1,4	**10BR 261**
	177,39 x 3,53	178	184,2	1,4	**10BR 262**
	183,74 x 3,53	184	190,2	1,4	**10BR 263**
	190,09 x 3,53	190	196,2	1,4	**10BR 264**
	196,44 x 3,53	197	203,2	1,4	**10BR 265**
	202,79 x 3,53	203	209,2	1,4	**10BR 266**
	209,14 x 3,53	210	216,2	1,4	**10BR 267**
	215,49 x 3,53	216	222,2	1,4	**10BR 268**
	234,54 x 3,53			1,4	**10BR 271**
	240,89 x 3,53	241	247,2	1,4	**10BR 272**
	278,99 x 3,53	280	286,2	1,4	**10BR 276**
5,34	37,47 x 5,34	38	47,4	1,7	**10BR 325**
	40,64 x 5,34	41	50,4	1,7	**10BR 326**
	43,82 x 5,34	44	53,4	1,7	**10BR 327**
	46,99 x 5,34	47	56,4	1,7	**10BR 328**
	50,17 x 5,34	50	59,4	1,7	**10BR 329**
	53,34 x 5,34	53	62,4	1,7	**10BR 330**
	56,52 x 5,34	57	66,4	1,7	**10BR 331**
	59,69 x 5,34	60	69,4	1,7	**10BR 332**
	62,87 x 5,34	63	72,4	1,7	**10BR 333**

10BR seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

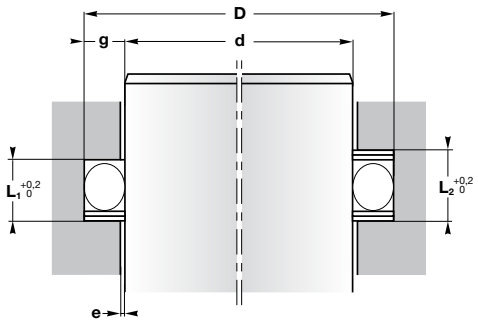


10BR

Example of item code

10BR 218

Profile — AS/BS norm



Machining of housings: see page 81 and table 222

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

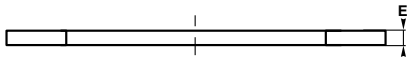
Table 222

d (O-ring)	**g**	**L1**	**L2**	**E**
1,78	1,55	3,8	5,2	1,4
2,62	2,25	5	6,4	1,4
3,53	3,1	6,2	7,6	1,4
5,34	4,7	8,8	10,5	1,7
7	6,1	12	14,5	2,5

O-ring cross section	O-ring	d	D	E	Reference
5,34	66,04 x 5,34	66	75,4	1,7	**10BR 334**
	69,22 x 5,34	69	78,4	1,7	**10BR 335**
	72,39 x 5,34	73	82,4	1,7	**10BR 336**
	74,63 x 5,34	75	84,4	1,7	**10BR 619**
	75,57 x 5,34	76	85,4	1,7	**10BR 337**
	78,74 x 5,34	79	88,4	1,7	**10BR 338**
	79,73 x 5,34	80	89,4	1,7	**10BR 620**
	81,92 x 5,34	82	91,4	1,7	**10BR 339**
	85,09 x 5,34	85	94,4	1,7	**10BR 340**
	88,27 x 5,34	88	97,4	1,7	**10BR 341**
	89,69 x 5,34	90	99,4	1,7	**10BR 621**
	91,44 x 5,34	92	101,4	1,7	**10BR 342**
	94,62 x 5,34	95	104,4	1,7	**10BR 343**
	97,79 x 5,34	98	107,4	1,7	**10BR 344**
	100,0 x 5,34	100	109,4	1,7	**10BR 622**
	100,97 x 5,34	101	110,4	1,7	**10BR 345**
	104,14 x 5,34	104	113,4	1,7	**10BR 346**
	107,32 x 5,34	107	116,4	1,7	**10BR 347**
	109,54 x 5,34	110	119,4	1,7	**10BR 623**
	110,49 x 5,34	110	119,4	1,7	**10BR 348**
	113,67 x 5,34	114	123,4	1,7	**10BR 349**
	116,84 x 5,34	117	126,4	1,7	**10BR 350**
	117,48 x 5,34	118	127,4	1,7	**10BR 860**
	120,02 x 5,34	121	130,4	1,7	**10BR 351**
	123,19 x 5,34	124	133,4	1,7	**10BR 352**
	126,37 x 5,34	127	136,4	1,7	**10BR 353**
	129,54 x 5,34	130	139,4	1,7	**10BR 354**
	132,72 x 5,34	133	142,4	1,7	**10BR 355**
	133,35 x 5,34	133	143,4	1,7	**10BR 865**
	135,89 x 5,34	137	146,4	1,7	**10BR 356**
	139,07 x 5,34	140	149,4	1,7	**10BR 357**
	139,7 x 5,34	140	149,4	1,7	**10BR 867**
	142,24 x 5,34	143	152,4	1,7	**10BR 358**
	145,42 x 5,34	146	155,4	1,7	**10BR 359**
	148,59 x 5,34	150	159,4	1,7	**10BR 360**
	151,77 x 5,34	152	161,4	1,7	**10BR 361**
	158,12 x 5,34	158	167,4	1,7	**10BR 362**
	164,47 x 5,34	165	174,4	1,7	**10BR 363**
	170,82 x 5,34	171	180,4	1,7	**10BR 364**
	177,17 x 5,34	178	187,4	1,7	**10BR 365**
	183,52 x 5,34	184	193,4	1,7	**10BR 366**
	189,87 x 5,34	190	199,4	1,7	**10BR 367**

O-ring cross section	O-ring	d	D	E	Reference
5,34	196,22 x 5,34	196	205,4	1,7	**10BR 368**
	208,92 x 5,34	209	218,4	1,7	**10BR 370**
	215,27 x 5,34	215	224,4	1,7	**10BR 371**
	227,97 x 5,34	228	237,4	1,7	**10BR 373**
	234,32 x 5,34	234	243,4	1,7	**10BR 374**
	240,67 x 5,34	241	250,4	1,7	**10BR 375**
	247,02 x 5,34	247	256,4	1,7	**10BR 376**
	253,37 x 5,34	253	262,4	1,7	**10BR 377**
	278,77 x 5,34	280	289,4	1,7	**10BR 379**
	291,47 x 5,34	292	301,4	1,7	**10BR 380**
7	113,67 x 7	114	126,2	2,5	**10BR 425**
(6,99)	114,7 x 7	115	127,2	2,5	**10BR 624**
	116,84 x 7	117	129,2	2,5	**10BR 426**
	120,02 x 7	120	132,2	2,5	**10BR 427**
	123,2 x 7	123	135,2	2,5	**10BR 428**
	126,37 x 7	126	138,2	2,5	**10BR 429**
	129,54 x 7	130	142,2	2,5	**10BR 430**
	132,72 x 7	133	145,2	2,5	**10BR 431**
	134,5 x 7	134,5	146,7	2,5	**10BR 626**
	135,89 x 7	136	148,2	2,5	**10BR 432**
	139,07 x 7	139	151,2	2,5	**10BR 433**
	142,24 x 7	142	154,2	2,5	**10BR 434**
	145,42 x 7	145	157,2	2,5	**10BR 435**
	148,59 x 7	149	161,2	2,5	**10BR 436**
	151,77 x 7	152	164,2	2,5	**10BR 437**
	155,6 x 7	156	168,2	2,5	**10BR 872**
	158,12 x 7	158	170,2	2,5	**10BR 438**
	159,5 x 7			2,5	**10BR 627**
	161,9 x 7	162	174,2	2,5	**10BR 874**
	164,47 x 7	165	177,2	2,5	**10BR 439**
	166,7 x 7	167	179,2	2,5	**10BR 628**
	168,3 x 7	168	180,2	2,5	**10BR 876**
	170,82 x 7	170	182,2	2,5	**10BR 440**
	174,6 x 7	175	187,2	2,5	**10BR 878**
	177,17 x 7	178	190,2	2,5	**10BR 441**
	183,52 x 7	184	196,2	2,5	**10BR 442**
	187,3 x 7	188	200,2	2,5	**10BR 882**
	189,87 x 7	190	202,2	2,5	**10BR 443**
	193,7 x 7	194	206,2	2,5	**10BR 884**
	196,22 x 7	196	208,2	2,5	**10BR 444**

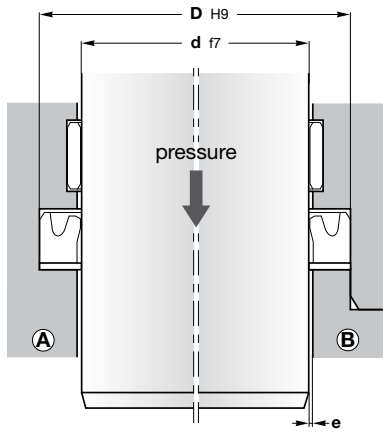
O-ring cross section	O-ring	d	D	E	Reference
7	200,0 x 7	200	212,2	2,5	**10BR 886**
(6,99)	202,57 x 7	203	215,2	2,5	**10BR 445**
	208,92 x 7	210	222,2	2,5	**10BR 674**
	215,27 x 7	215	227,2	2,5	**10BR 446**
	221,62 x 7	222	234,2	2,5	**10BR 676**
	227,97 x 7	230	242,2	2,5	**10BR 447**
	234,32 x 7	235	247,2	2,5	**10BR 678**
	240,67 x 7	240	252,2	2,5	**10BR 448**
	247 x 7	248	260,2	2,5	**10BR 680**
	253,37 x 7	255	267,2	2,5	**10BR 449**
	259,7 x 7	260	272,2	2,5	**10BR 682**
	266,07 x 7	265	277,2	2,5	**10BR 450**
	272,4 x 7	273	285,2	2,5	**10BR 684**
	278,77 x 7	280	292,2	2,5	**10BR 451**
	285,1 x 7	285	297,2	2,5	**10BR 686**
	291,47 x 7	292	304,2	2,5	**10BR 452**
	297,8 x 7	300	312,2	2,5	**10BR 688**
	304,17 x 7	305	317,2	2,5	**10BR 453**
	316,87 x 7	318	330,2	2,5	**10BR 454**
	329,57 x 7	330	342,2	2,5	**10BR 455**
	342,27 x 7			2,5	**10BR 456**
	367,67 x 7	370	382,2	2,5	**10BR 458**
	380,37 x 7	380	392,2	2,5	**10BR 459**
	393,07 x 7	393	405,2	2,5	**10BR 460**

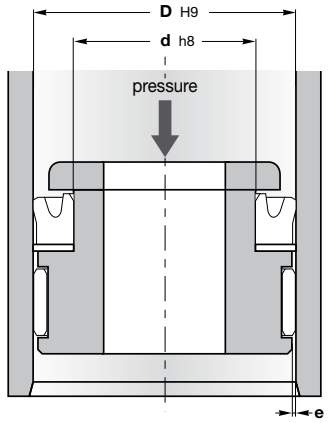


08ST8

Example of item code

08ST8	105	095	PT01
Profile	**D** (mm)	**d** (mm)	Material





Machining of housings: see pages 48-49

08ST8 is an uncut back-up ring with a rectangular cross section. The standard material is PTFE. Other materials like POM, PA or other filled PTFE materials are also possible.

It's also used for reciprocating and rotating movements.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-60°C to 200°C
Speed	≤ 0,5 m/s
Fluids	see pages 22-45

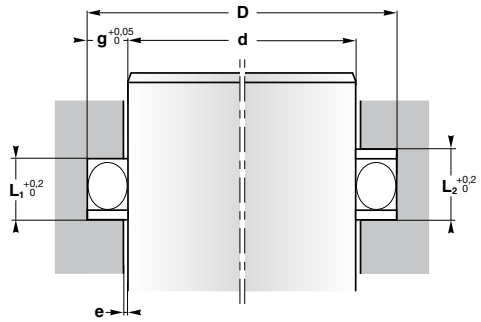
Materials	**see pages 10-19**
	PT01, PT15, POM, PA

Assembly	**see pages 54-59**
In one-piece Ⓐ or two-piece Ⓑ housings	
On multi-piece pistons	

Advantages

- Provides an efficient solution to the extrusion of the seal
- Generally the radial clearance **e** can be increased
- Good price-performance ratio and simple solution

Please contact us for applications approaching maximum values.



Internal housing

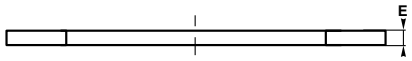
Machining of housings: see page 81

For special requirements (fluid, temperature, pressure, speed...) or applications approaching maximum values, please contact us.

D	d	E	Reference
18	8	2	**08ST8 018008 PT01**
20	10	2	**08ST8 020010 PT01**
22	14	2	**08ST8 022014 PT01**
23	15	2	**08ST8 023015 PT01**
24	14	2	**08ST8 024014 PT01**
	16	1,4	**08ST8 024016 PT01**
	16	2	**08ST8 024016/2 PT01**
26	16	2	**08ST8 026016 PT01**
	18	1	**08ST8 026018 PT01**
	18	2	**08ST8 026018/1 PT01**
28	15	2	**08ST8 028015 PT01**
	20	2	**08ST8 028020 PT01**
30	20	2	**08ST8 030020 PT01**
	22	2	**08ST8 030022 PT01**
32	24	2	**08ST8 032024 PT01**
33	25	2	**08ST8 033025 PT01**
	25	3	**08ST8 033025/1 PT01**
35	25	1,2	**08ST8 035025 PT01**
	25	2	**08ST8 035025/2 PT01**
36	25	3	**08ST8 035025/1 PT01**
	28	3	**08ST8 036028 PT01**
38	25	2	**08ST8 038025 PT01**
	32	2	**08ST8 038032 PT01**
	32	3	**08ST8 038032/1 PT01**
40	28	3	**08ST8 040028 PT01**
	30	1,5	**08ST8 040030 PT01**
	30	2	**08ST8 040030/1 PT01**
	30	3	**08ST8 040030/2 PT01**
41	28	3	**08ST8 041028 PT01**
42	32	3	**08ST8 042032 PT01**
45	30	3	**08ST8 045030 PT01**
	35	2	**08ST8 045035 PT01**
	35	3	**08ST8 045035/1 PT01**
46	36	3	**08ST8 046036 PT01**

D	d	E	Reference
50	34	3	**08ST8 050034 PT01**
	35	3	**08ST8 050035 PT01**
	40	1,5	**08ST8 050040 PT01**
	40	2	**08ST8 050040/1 PT01**
	40	3	**08ST8 050040/2 PT01**
55	40	3	**08ST8 055040 PT01**
	45	2	**08ST8 055045 PT01**
	45	3	**08ST8 055045/1 PT01**
60	45	3	**08ST8 060045 PT01**
	50	2	**08ST8 060050 PT01**
	50	3	**08ST8 060050/1 PT01**
62,5	59	3	**08ST8 062059 PT01**
63	48	3	**08ST8 063048 PT01**
	50	3	**08ST8 063050 PT01**
	53	1,5	**08ST8 063053 PT01**
	53	3	**08ST8 063053/1 PT01**
65	55	3	**08ST8 065055 PT01**
	60	1,3	**08ST8 065060/1 PT01**
	60	1,5	**08ST8 065060 PT01**
68	55	3	**08ST8 068055 PT01**
69,5	60,2	3	**08ST8 069060 PT01**
70	50	3	**08ST8 070050 PT01**
	55	3	**08ST8 070055 PT01**
	60	1,7	**08ST8 070060 PT01**
	60	3	**08ST8 070060/1 PT01**
71	55	3	**08ST8 071055 PT01**
	60	3	**08ST8 071060 PT01**
73	60	3	**08ST8 073060 PT01**
	63	3	**08ST8 073063 PT01**
75	55	3	**08ST8 075055 PT01**
	60	3	**08ST8 075060 PT01**
	65	3	**08ST8 075065/1 PT01**
	65,5	1,8	**08ST8 075065 PT01**
77	67	3	**08ST8 077067 PT01**
78	65	3	**08ST8 078065 PT01**

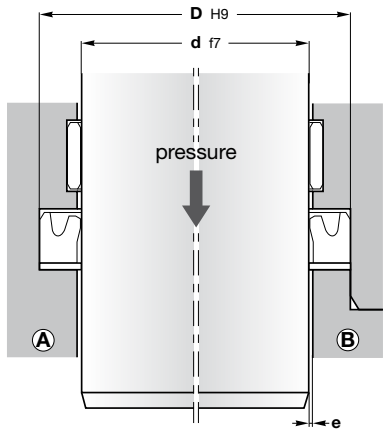
08ST8 seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**

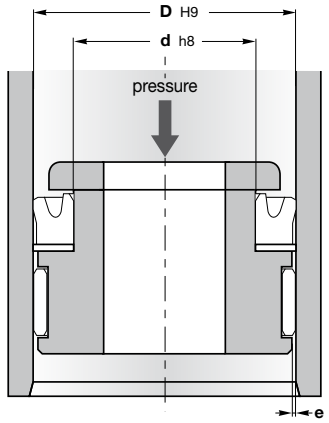


08ST8

Example of item code

08ST8	105	095	PT01
Profile	**D** (mm)	**d** (mm)	Material





Machining of housings: see pages 48-49

08ST8 is an uncut back-up ring with a rectangular cross section. The standard material is PTFE. Other materials like POM, PA or other filled PTFE materials are also possible.

It's also used for reciprocating and rotating movements.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-60°C to 200°C
Speed	≤ 0,5 m/s
Fluids	see pages 22-45

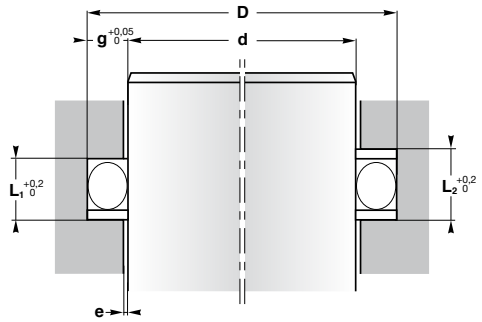
Materials	**see pages 10-19**
	PT01, PT15, POM, PA

Assembly	**see pages 54-59**
In one-piece Ⓐ or two-piece Ⓑ housings	
On multi-piece pistons	

Advantages

- Provides an efficient solution to the extrusion of the seal
- Generally the radial clearance **e** can be increased
- Good price-performance ratio and simple solution

Please contact us for applications approaching maximum values.



Internal housing

Machining of housings: see page 81

D	d	E	Reference
80	60	3	**08ST8 080060 PT01**
	64	3	**08ST8 080064 PT01**
	65	3	**08ST8 080065 PT01**
	68	1,5	**08ST8 080068 PT01**
	70	2	**08ST8 080070 PT01**
	70	3	**08ST8 080070/1 PT01**
	75	1,5	**08ST8 080075 PT01**
83	70	3	**08ST8 083070 PT01**
85	65	3	**08ST8 085065 PT01**
	70	3	**08ST8 085070 PT01**
	75	2	**08ST8 085075/1 PT01**
	75	3	**08ST8 085075 PT01**
88	75	3	**08ST8 088075 PT01**
90	70	3	**08ST8 090070 PT01**
	75	3	**08ST8 090075 PT01**
	80	2	**08ST8 090080 PT01**
	80	3	**08ST8 090080/2 PT01**
93	80	3	**08ST8 093080 PT01**
95	75	3	**08ST8 095075 PT01**
	80	3	**08ST8 095080 PT01**
100	80	3	**08ST8 100080 PT01**
	85	2	**08ST8 100085 PT01**
	85	3	**08ST8 100085/1 PT01**
	88	2	**08ST8 100088 PT01**
105	85	3	**08ST8 105085 PT01**
	90	2	**08ST8 105090/1 PT01**
	90	3	**08ST8 105090 PT01**
	95	3	**08ST8 105095 PT01**
	95	3,5	**08ST8 105095/1 PT01**
110	90	3	**08ST8 110090 PT01**
	95	3	**08ST8 110095 PT01**
	95	3,5	**08ST8 110095/1 PT01**
115	95	3	**08ST8 115095 PT01**
	100	3	**08ST8 115100 PT01**
120	100	3	**08ST8 120100 PT01**
	105	3	**08ST8 120105 PT01**
125	100	3	**08ST8 125100 PT01**
	105	3	**08ST8 125105 PT01**
	110	2	**08ST8 125110 PT01**
	110	3	**08ST8 125110/1 PT01**

D	d	E	Reference
130	110	3	**08ST8 130110 PT01**
	115	3	**08ST8 130115 PT01**
135	115	3	**08ST8 135115 PT01**
	120	3	**08ST8 135120 PT01**
140	120	3	**08ST8 140120 PT01**
	125	3	**08ST8 140125 PT01**
141	133	1,7	**08ST8 141133 PT01**
145	130	3	**08ST8 145130 PT01**
150	125	2	**08ST8 150125 PT01**
	125	3	**08ST8 150125/1 PT01**
	130	3	**08ST8 150130 PT01**
	135	2	**08ST8 150135 PT01**
	135	3	**08ST8 150135/1 PT01**
155	140	3	**08ST8 155140 PT01**
160	135	3	**08ST8 160135 PT01**
	140	3	**08ST8 160140 PT01**
	145	3	**08ST8 160145 PT01**
165	140	3	**08ST8 165140 PT01**
	145	3	**08ST8 165145 PT01**
	150	3	**08ST8 165150 PT01**
170	145	3	**08ST8 170145 PT01**
	155	4	**08ST8 170155 PT01**
175	160	4	**08ST8 175160 PT01**
180	155	4	**08ST8 180155 PT01**
	160	4	**08ST8 180160 PT01**
	165	4	**08ST8 180165 PT01**
	170	4	**08ST8 180170 PT01**
185	160	4	**08ST8 185160 PT01**
190	170	4	**08ST8 190170 PT01**
	175	4	**08ST8 190175 PT01**
200	170	4	**08ST8 200170 PT01**
	175	4	**08ST8 200175 PT01**
	180	2,5	**08ST8 200180 PT01**
	180	4	**08ST8 200180/1 PT01**
	190	4	**08ST8 200190 PT01**
205	180	4	**08ST8 205180 PT01**
210	190	4	**08ST8 210190 PT01**

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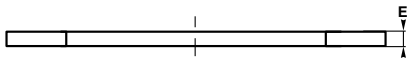
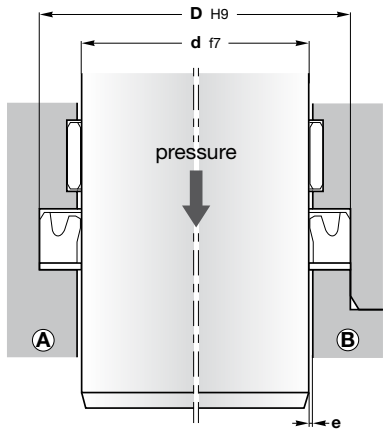


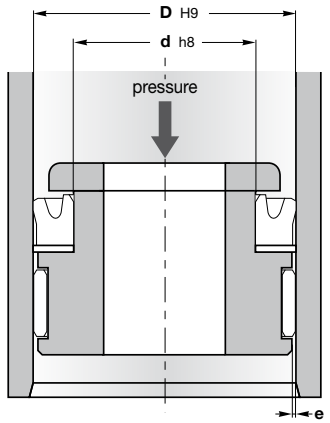
08ST8

Example of item code

08ST8 105 095 PT01

Profile | **D** (mm) | **d** (mm) | Material





Machining of housings: see pages 48-49

08ST8 is an uncut back-up ring with a rectangular cross section. The standard material is PTFE. Other materials like POM, PA or other filled PTFE materials are also possible.

It's also used for reciprocating and rotating movements.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-60°C to 200°C
Speed	≤ 0,5 m/s
Fluids	see pages 22-45

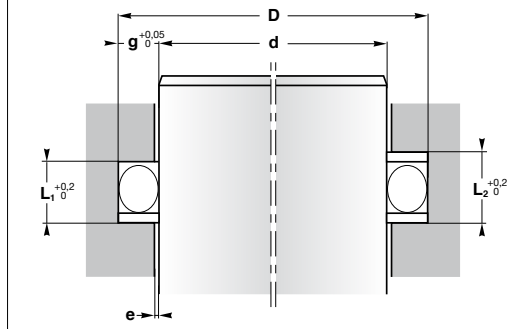
Materials	**see pages 10-19**
	PT01, PT15, POM, PA

Assembly	**see pages 54-59**
In one-piece Ⓐ or two-piece Ⓑ housings	
On multi-piece pistons	

Advantages

- Provides an efficient solution to the extrusion of the seal
- Generally the radial clearance **e** can be increased
- Good price-performance ratio and simple solution

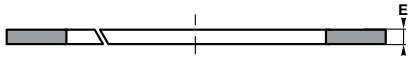
Please contact us for applications approaching maximum values.



Internal housing

Machining of housings: see page 81

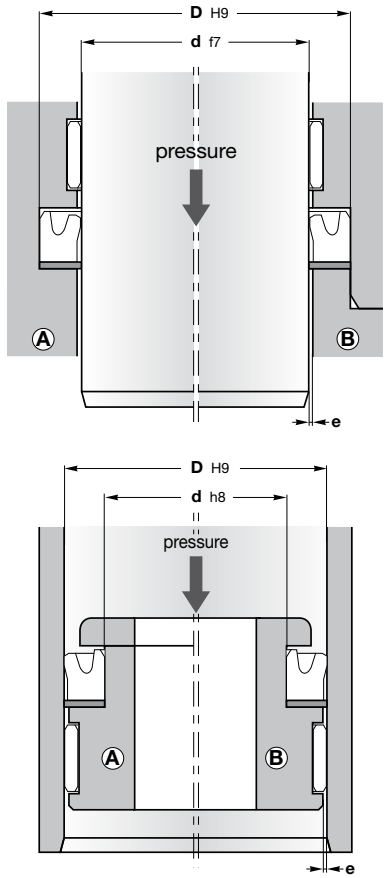
D	d	E	Reference
220	200	2	**08ST8 220200 PT01**
	200	4	**08ST8 220200/1 PT01**
	205	4	**08ST8 220205 PT01**
225	200	4	**08ST8 225200 PT01**
	205	4	**08ST8 225205 PT01**
230	210	4	**08ST8 230210 PT01**
240	220	4	**08ST8 240220 PT01**
245	225	4	**08ST8 245225 PT01**
250	225	4	**08ST8 250225 PT01**
	230	4	**08ST8 250230 PT01**
260	240	4	**08ST8 260240 PT01**
270	250	4	**08ST8 270250 PT01**
275	250	4	**08ST8 275250 PT01**
280	255	4	**08ST8 280255 PT01**
285	260	4	**08ST8 285260 PT01**
290	265	4	**08ST8 290265 PT01**
295	270	4	**08ST8 295270 PT01**
300	270	4	**08ST8 300270 PT01**
	275	4	**08ST8 300275 PT01**
315	307,9	1,5	**08ST8 315307 PT01**
400	387,8	3	**08ST8 400387 PT01**
430	418,3	3	**08ST8 430418 PT01**



08ST8/C

Example of item code

08ST8/C	105	095	PA
Profile	**D** (mm)	**d** (mm)	Material



Machining of housings: see pages 48-49

08ST8/C is a cut back-up ring with a rectangular cross section. The standard materials are PTFE, POM or PA. Other materials are also possible. It can work in **static** and **dynamic** applications and is prefered for installations in closed grooves where uncut back-up rings are not suitable.

It's also used in reciprocating and rotating movements.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-60°C to 200°C
Speed	≤ 0,5 m/s
Fluids	see pages 22-45

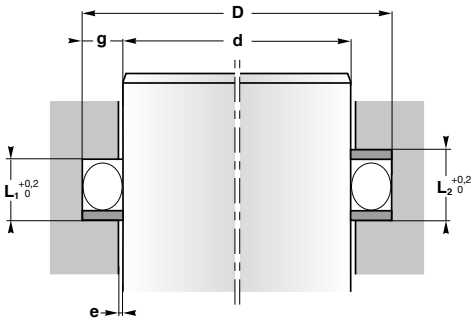
Materials	**see pages 10-19**
	PT01, POM, PA

Assembly	**see pages 54-59**
In one-piece Ⓐ or two-piece Ⓑ housings	
On one-piece Ⓐ or multi-piece Ⓑ pistons	

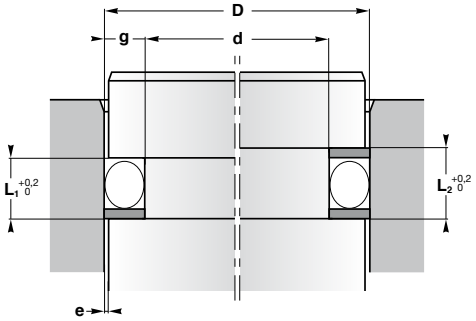
Advantages

- Provides an efficient solution against the extrusion of the seal
- Generally the radial clearance **e** can be increased
- Good price-performance ratio and simple solution

Please contact us for applications approaching maximum values.



Internal housing

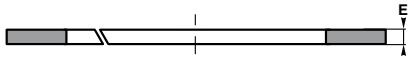


External housing

Machining of housings: see page 81

D	d	E	Reference
22	17	1,4	**08ST8/C 022017 PT01**
33	25	1,2	**08ST8/C 033025 POM**
38,1	28,57	1,8	**08ST8/C 038028 PA**
45	40	1,35	**08ST8/C 045040 PT01**
48	40	1,2	**08ST8/C 048040 POM**
50	40	3	**08ST8/C 050040 PA**
50,8	38,1	7	**08ST8/C 050038 POM**
55	40	3	**08ST8/C 055040 PA**
	42	2	**08ST8/C 055042 PT01**
60	45	3	**08ST8/C 060045 PA**
	50	3	**08ST8/C 060050 PA**
63	50	3	**08ST8/C 063050 PA**
63,5	50,8	7	**08ST8/C 063050 POM**
65	50	3	**08ST8/C 065050 PA**
	55	3	**08ST8/C 065055 PA**
68	55	3	**08ST8/C 068055 PA**
	60	3	**08ST8/C 068060 PA**
70	55	3	**08ST8/C 070055 PA**
	60	3	**08ST8/C 070060 PA**
71	55	3	**08ST8/C 071055 PA**
73	60	3	**08ST8/C 073060 PA**
	68	1,4	**08ST8/C 073068 PT01**
75	60	3	**08ST8/C 075060 PA**
	65	3	**08ST8/C 075065 PA**
78	65	3	**08ST8/C 078065 PA**
79,9	71,5	1,2	**08ST8/C 079071 PT01**
80	65	3	**08ST8/C 080065 PA**
	70	3	**08ST8/C 080070 PA**
81	72,4	1,7	**08ST8/C 081072 PT01**
82,55	63,5	3,6	**08ST8/C 082063/1 POM**
	69,85	1,8	**08ST8/C 082069 PA**
83	70	3	**08ST8/C 083070 PA**
85	70	3	**08ST8/C 085070 PA**
	75	3	**08ST8/C 085075 PA**
88	75	3	**08ST8/C 088075 PA**
90	70	3	**08ST8/C 090070 PA**
	75	3	**08ST8/C 090075 PA**
	80	3	**08ST8/C 090080 PA**
	84,6	1,4	**08ST8/C 090084 PT01**
93	80	3	**08ST8/C 093080 PA**
95	75	3	**08ST8/C 095075 PA**
	80	3	**08ST8/C 095080 PA**
95,25	76,2	3,8	**08ST8/C 095076 POM**
100	80	3	**08ST8/C 100080 PA**
	85	3	**08ST8/C 100085 PA**
101	92,4	1,7	**08ST8/C 101092 PT01**
101,6	88,9	1,8	**08ST8/C 101088 PA**
105	85	3	**08ST8/C 105085 PA**
	90	3	**08ST8/C 105090 PA**
	95	3	**08ST8/C 105095 PA**
107,95	88,9	3,6	**08ST8/C 107088 POM**
110	90	3	**08ST8/C 110090 PA**
	95	3	**08ST8/C 110095 PA**
111	102,4	1,7	**08ST8/C 111102 PT01**
114,3	101,6	1,9	**08ST8/C 114101 PA**
115	95	3	**08ST8/C 115095 PA**
	100	3	**08ST8/C 115100 PA**
	109,6	1,4	**08ST8/C 115109 PT01**
120	100	3	**08ST8/C 120100 PA**
	105	3	**08ST8/C 120105 PA**
120,2	112,2	1,7	**08ST8/C 120112 PT01**
125	105	3	**08ST8/C 125105 PA**
	110	3	**08ST8/C 125110 PA**
130	110	3	**08ST8/C 130110 PA**
	115	3	**08ST8/C 130115 PA**
131	122,4	1,7	**08ST8/C 131122 PT01**

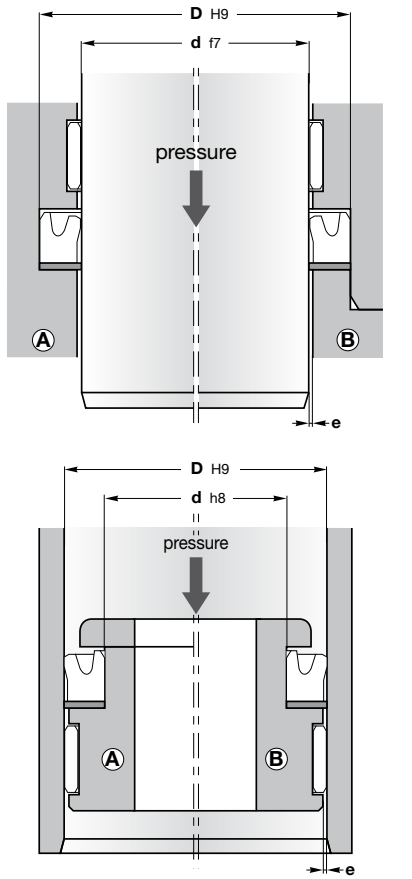
08ST8/C seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**



08ST8/C

Example of item code

08ST8/C	105	095	PA
Profile	**D** (mm)	**d** (mm)	Material



Machining of housings: see pages 48-49

08ST8/C is a cut back-up ring with a rectangular cross section. The standard materials are PTFE, POM or PA. Other materials are also possible. It can work in **static** and **dynamic** applications and is prefered for installations in closed grooves where uncut back-up rings are not suitable.

It's also used in reciprocating and rotating movements.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-60°C to 200°C
Speed	≤ 0,5 m/s
Fluids	see pages 22-45
Materials	**see pages 10-19**
	PT01, POM, PA
Assembly	**see pages 54-59**
In one-piece Ⓐ or two-piece Ⓑ housings	
On one-piece Ⓐ or multi-piece Ⓑ pistons	

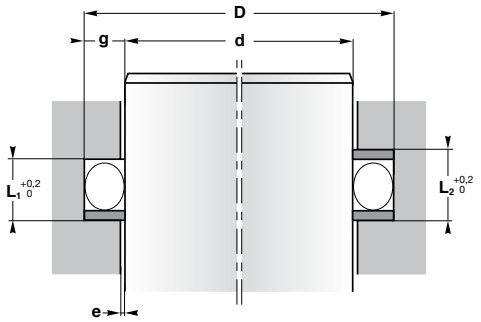
Advantages

Provides an efficient solution against the extrusion of the seal

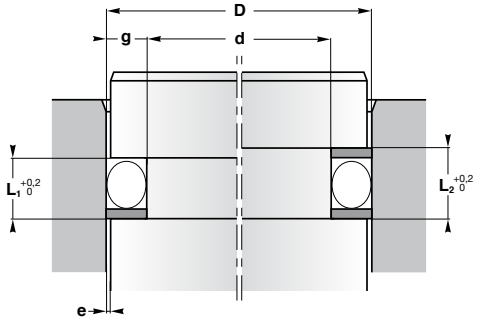
Generally the radial clearance **e** can be increased

Good price-performance ratio and simple solution

Please contact us for applications approaching maximum values.



Internal housing

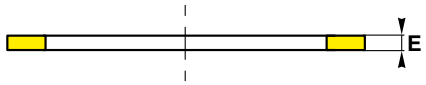


External housing

Machining of housings: see page 81

D	d	E	Reference
133,35	120,65	1,8	**08ST8/C 133120 PA**
135	115	3	**08ST8/C 135115 PA**
	120	3	**08ST8/C 135120 PA**
140	120	3	**08ST8/C 140120 PA**
141	132,4	1,7	**08ST8/C 141132 PT01**
145	130	3	**08ST8/C 145130 PA**
150	130	3	**08ST8/C 150130 PA**
151	142,4	1,7	**08ST8/C 151142 PT01**
152	133,36	3,6	**08ST8/C 152133/1 POM**
152,4	133,36	5,8	**08ST8/C 152133 POM**
160	140	3	**08ST8/C 160140 PA**
161	152,4	1,7	**08ST8/C 161152 PT01**
177,8	158,75	3,8	**08ST8/C 177158 POM**
180	160	4	**08ST8/C 180160 PA**
181	172,4	1,7	**08ST8/C 181172 PT01**
203,2	177,8	7	**08ST8/C 203177 POM**

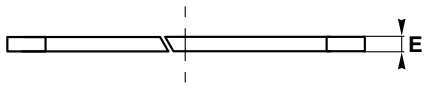
08ST8/C seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**



28ST8 MACHINED

Example of item code

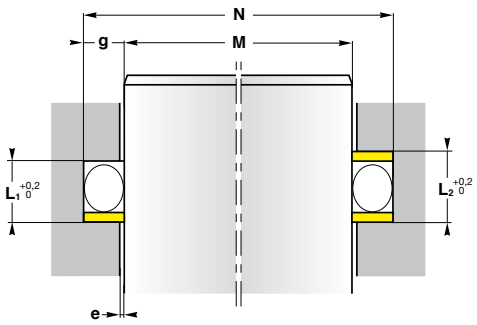
28ST8 PU30 120 x 111,4 x 1,7
Profile | Material | N x M x E (mm) Q x P x E (mm)



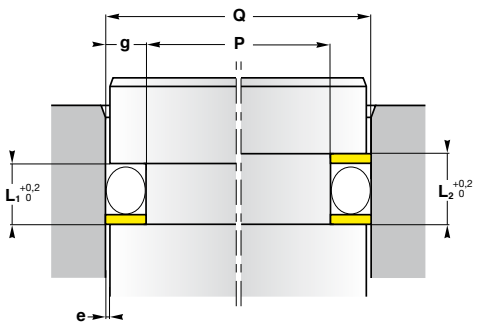
28ST8/C MACHINED

Example of item code

28ST8/C PT01 120 x 111,4 x 1,7
Profile | Material | N x M x E (mm) Q x P x E (mm)



Internal housing



External housing

Machining of housings: see pages 48-49

28ST8 and **28ST8/C** back-up rings with O-ring are the most simple and economic solution.

The back-up ring can be machined in PTFE or PU.

They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

The cutted back-up rings in PTFE **28ST8/C** PT01 are used for external grooves, because stretching closed PTFE back-up rings would be very difficult or even impossible.

In contrast, **28ST8** PU30 can be mounted easily as closed rings. So, there is no discontinuity that may contribute to cause localised wear spots to the O-ring.

MACHINED

Operating conditions see page 8

Pressure	≤ 50 MPa
Temperature	
PU	-30°C to 100°C
PTFE	-200°C to 260°C
Fluids	
PU	mineral oils
PTFE	almost all

Materials see pages 10-19

PU	PU30
PTFE	PT01

Assembly see pages 54-59

In one-piece housings: the **28ST8** in PU30 don't need to be cut before installation

The back-up rings in PTFE need to be cut for external grooves

Advantages

- Economic
- Easy assembly
- Very precise machined back-up rings
- Good extrusion resistance
- Perfect solution for difficult static sealing applications
- The back-up rings **28ST8** in PU30 do not have a cut

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the different materials.

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

With regards to new constructions, we advise to design the grooves **according norm ISO 3601** (table 235) which represents an optimal technical solution for static sealing applications.

For external housings, use back-up rings **28ST8** and cut rings **28ST8/C**. For internal housings, use back-up rings **28ST8**. To order with the correct item code, give the dimensions of the ring and specify with **/C** if the ring must be cut.

We give four examples of item codes:

1st example: inner housing, material PU30

For an internal diameter **M** of 60 mm and an external diameter **N** of 64 mm the item code will be with a thickness **E** of 1,4 mm:

28ST8 PU30 64 (N mm) x 60 (M mm) x 1,4 (E mm)

2nd example: inner housing, material PT01

For an internal diameter **M** of 60 mm and an external diameter **N** of 64 mm the item code will be with a thickness **E** of 1,4 mm:

28ST8 PT01 64 (N mm) x 60 (M mm) x 1,4 (E mm)

3rd example: outer housing, PU30

For an external diameter **Q** of 120 mm and an internal diameter **P** of 111,4 mm the item code will be with a thickness **E** of 1,7 mm:

28ST8 PU30 120 (Q mm) x 111,4 (P mm) x 1,7 (E mm)

4th example: outer housing, PT01, cut

For an external diameter **Q** of 120 mm and an internal diameter **P** of 111,4 mm the item code will be with a thickness **E** of 1,7 mm:

28ST8/C PT01 120 (Q mm) x 111,4 (P mm) x 1,7 (E mm)

NEW CONSTRUCTION

Table 235

Grooves for O-ring with back-up rings following the **norm ISO 3601**

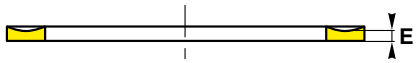
d	g	L1	L2	E
1,5 1,52	1,1	3	4	1
1,6 1,63	1,2	3,1	4,1	1
1,78 1,8	1,3	3,8	5,2	1,4
1,9	1,4	4	5,4	1,4
2 1,98	1,5	4,1	5,5	1,4
2,4	1,8	4,6	6	1,4
2,5	1,85	4,7	6,1	1,4
2,62 2,65	2	5	6,4	1,4
2,7	2,05	5	6,4	1,4
3	2,3	5,4	6,8	1,4
3,1	2,4	5,5	6,9	1,4
3,5	2,65	6	7,4	1,4
3,53 3,55	2,7	6,2	7,6	1,4
3,6	2,8	6,2	7,6	1,4
4	3,1	6,9	8,6	1,4
4,5	3,5	7,5	9,2	1,7
5	4	8,3	10	1,7
5,34 5,3	4,3	9	10,9	1,7
5,5	4,5	9	10,9	1,7
5,7	4,6	9	10,9	1,7
6	4,9	9	10,9	1,7
7 6,99	5,8	12,3	15,1	2,5
8	6,7	12,3	15,1	2,5
8,4	7,1	12,3	15,1	2,5

Our back-up rings **28ST8** have a fixed price under following conditions:

- maximal thickness: 3 mm
- maximal cross section: 7 mm
- materials: PU30 and PT01

The prices for the **28ST8** back-up rings can be calculated on www.sealtech-business.be.

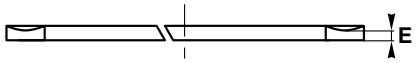
28ST8 and 28ST8/C seals with diameters between 10 and 1500 mm can be manufactured within short delivery time. For prices and availability: **www.sealtech-business.be**



25ST9 MACHINED

Example of item code

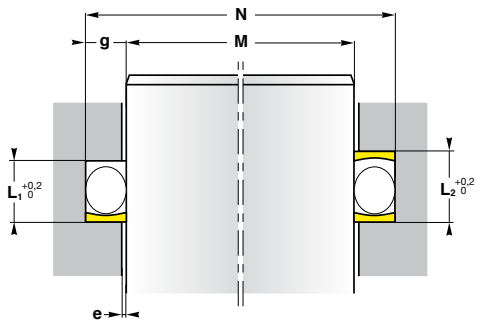
25ST9 PT15 120 x 111,4 x 1,7
Profile | Material | **N** x **M** x **E** (mm) / **Q** x **P** x **E** (mm)



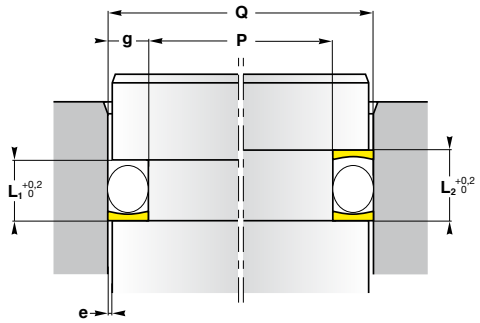
25ST9/C MACHINED

Example of item code

25ST9/C PT01 120 x 111,4 x 1,7
Profile | Material | **N** x **M** x **E** (mm) / **Q** x **P** x **E** (mm)



Internal housing



External housing

Machining of housings: see pages 48-49

25ST9 and **25ST9/C** back-up rings can be machined in PTFE, PU, Elastomers or POM/PA

They prevent extrusion of the O-ring when it is subjected to high pressures, or when the extrusion gaps are excessive.

If pressure arises on only one side of the O-ring, it will suffice to fit one anti-extrusion ring on the side not exposed to pressure.

For double-acting applications, two back-up rings should be used, one on each side of the O-ring.

The concave shape minimizes distortion of the O-ring, thereby **increasing the lifetime** of the sealing.

MACHINED

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	
PU	-30°C to 100°C
PTFE	-200°C to 260°C

Materials	**see pages 10-19**
25ST9	PU30, PU40, PT01, PT15, PT30, PT55
25ST9/C	PT01, PT15, PT30, PT55

Assembly	**see pages 54-59**

In one-piece housings

The **25ST9** in PU or in elastomer can be assembled in internal or external grooves and don't need to be cut before assembling.

The back-up rings in PTFE or PA/POM need to be cut for external grooves (**25ST9/C**).

Advantages

Easy assembly

Very precise machined back-up rings

Good extrusion resistance

Perfect solution for difficult static sealing applications

Life time increased

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

Pressure (MPa)	25	30	35	40	50
e max (mm)	0,25	0,2	0,15	0,1	0,05

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

With regards to new constructions, we advise to design the grooves **according norm ISO 3601** (table 237) which represents an optimal technical solution for static sealing applications.

For external grooves, use back-up rings **25ST9** and cut rings **25ST9/C**. For internal grooves, use back-up rings **25ST9**. To order with the correct item code, give the dimensions of the ring and specify with **/C** if the ring must be cut.

We give four examples of item codes:

1st example: inner housing, material PU30

For an internal diameter **M** of 60 mm and an external diameter **N** of 64 mm the item code will be with a thickness **E** of 1,4 mm:

25ST9 PU30 64 (**N** mm) x 60 (**M** mm) x 1,4 (**E** mm)

2nd example: inner housing, material PT01

For an internal diameter **M** of 60 mm and an external diameter **N** of 64 mm the item code will be with a thickness **E** of 1,4 mm:

25ST9 PT01 64 (**N** mm) x 60 (**M** mm) x 1,4 (**E** mm)

3rd example: outer housing, PU30

For an external diameter **Q** of 120 mm and an internal diameter **P** of 111,4 mm the item code will be with a thickness **E** of 1,7 mm:

25ST9 PU30 120 (**Q** mm) x 111,4 (**P** mm) x 1,7 (**E** mm)

4th example: outer housing, PT01, cut

For an external diameter **Q** of 120 mm and an internal diameter **P** of 111,4 mm the item code will be with a thickness **E** of 1,7 mm:

25ST9/C PT01 120 (**Q** mm) x 111,4 (**P** mm) x 1,7 (**E** mm)

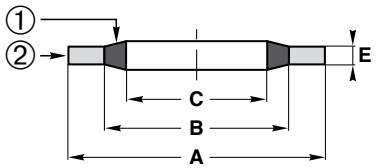
NEW CONSTRUCTION

Table 237

Grooves for O-ring with back-up rings following the **norm ISO 3601**

d	g	L1	L2	E
1,5 1,52	1,1	3	4	1
1,6 1,63	1,2	3,1	4,1	1
1,78 1,8	1,3	3,8	5,2	1,4
1,9	1,4	4	5,4	1,4
2 1,98	1,5	4,1	5,5	1,4
2,4	1,8	4,6	6	1,4
2,5	1,85	4,7	6,1	1,4
2,62 2,65	2	5	6,4	1,4
2,7	2,05	5	6,4	1,4
3	2,3	5,4	6,8	1,4
3,1	2,4	5,5	6,9	1,4
3,5	2,65	6	7,4	1,4
3,53 3,55	2,7	6,2	7,6	1,4
3,6	2,8	6,2	7,6	1,4
4	3,1	6,9	8,6	1,4
4,5	3,5	7,5	9,2	1,7
5	4	8,3	10	1,7
5,34 5,3	4,3	9	10,9	1,7
5,5	4,5	9	10,9	1,7
5,7	4,6	9	10,9	1,7
6	4,9	9	10,9	1,7
7 6,99	5,8	12,3	15,1	2,5
8	6,7	12,3	15,1	2,5
8,4	7,1	12,3	15,1	2,5

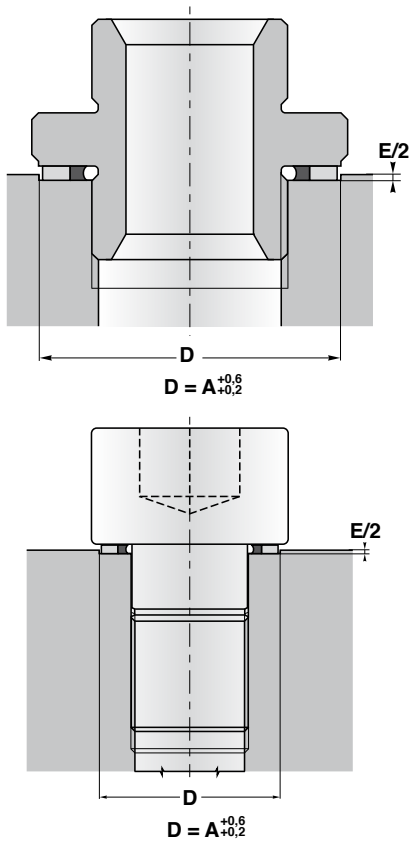
25ST9 and 25ST9/C seals with diameters between 10 and 1500 mm can be manufactured within short delivery time. For prices and availability: **www.sealtech-business.be**



08BS

08BS...FPM

08BS...FPM/SS



08BS bonded seals are used for screws and connectors.

By tightening the screws the elastomer sealing lip is compressed, thereby producing the sealing effect on the surfaces to be sealed. It stops the medium from leaking to the outside, thus preventing loss of pressure. In addition, it provides **protection against dirt** from the outside.

Operating conditions see page 8

Pressure	contact us
Temperature	
NBR	-30 to 100°C
FPM	-20 to 200°C

Materials see pages 10-19

① **08BS**	NBR 70 Sh A
08BS...FPM	FPM 70 Sh A
② **08BS**	passivated steel
08BS...FPM	passivated steel
08BS...FPM/SS	stainless steel

Assembly see pages 54-59

For bolts and connectors: see drawing on this page

Advantages

No sweating

Large range of elastomers and metals possible

Sealing for metric, Whitworth and BSP threads

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the different materials.

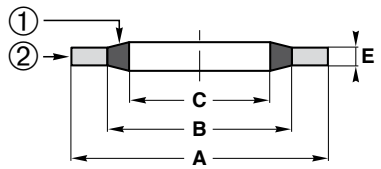
Tolerances

SERIE	A	B	C	E
0, 2, 3	+0,13 0	±0,13	±0,13	±0,15
5	0 -0,12	+0,2 0	+0,2 0	±0,15

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

08BS 0.. = English range

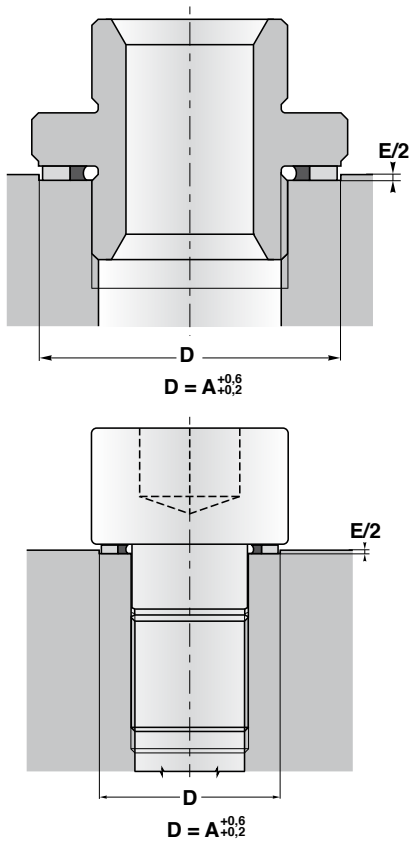
BSP	Inch	A	B	C	E	Reference
	6BA	6,35	4,09	3,05	1,3	**08BS 001**
	4BA	7,26	5,26	4,12	1,3	**08BS 002**
	2BA	8,38	6,35	5,21	1,3	**08BS 003**
	1/4	13,21	8	6,86	1,3	**08BS 004**
	1/4	13,34	9,53	6,99	1,3	**08BS 005**
	5/16	13,34	9,53	8,31	1,3	**08BS 006**
	5/16	14,22	10,04	8,64	1,3	**08BS 007**
	0,4	18,36	12,45	11,26	2	**08BS 008**
	7/16	19,05	13,08	11,69	2	**08BS 009**
	9/16	22,23	16,39	14,86	2	**08BS 010**
	5/8	25,4	18,75	16,51	2	**08BS 011**
	11/16	25,4	19,69	18,16	2,5	**08BS 012**
	15/16	33,27	26,04	24,26	2,5	**08BS 013**
	1-1/8	36,58	30,86	29,33	2,5	**08BS 014**
	1-1/4	41,4	35,69	32,64	3,4	**08BS 015**
	1-3/8	44,45	38,99	35,94	3,4	**08BS 016**
	1-1/2	47,75	42,04	38,96	3,4	**08BS 017**
	1-3/4	57,15	48,39	45,34	3,4	**08BS 018**
1/8	**3/8**	15,88	11,84	10,37	2	**08BS 020**
1/4	**1/2**	20,57	15,21	13,74	2	**08BS 021**
	0,6	22,23	17,3	15,83	2	**08BS 022**
3/8		23,8	18,75	17,28	2	**08BS 023**
	3/4	26,92	21,21	19,69	2,5	**08BS 024**
1/2	**13/16**	28,58	23,01	21,54	2,5	**08BS 025**
5/8	**7/8**	31,75	24,97	23,49	2,5	**08BS 026**
3/4	**1**	34,93	28,53	27,05	2,5	**08BS 027**
	1-1/16	38,61	30,61	27,82	2,5	**08BS 028**
7/8	**1-3/16**	38,1	32,29	30,81	2,5	**08BS 029**
1	**1-5/16**	42,8	36,88	33,89	2,5	**08BS 030**
1-1/4	**1-5/8**	52,38	45,93	42,93	2,5	**08BS 032**
1-1/2	**1-7/8**	58,6	51,39	48,44	2,5	**08BS 033**
1-3/4	**2-1/8**	69,85	58,3	54,89	2,5	**08BS 034**
	2-1/4	70,36	61,09	58,04	2,5	**08BS 035**
2		73,03	63,63	60,58	2,5	**08BS 036**
	2-1/2	77,72	67,44	64,39	3,4	**08BS 037**
2-1/4		79,5	69,98	66,68	3,4	**08BS 038**
2-1/2		90,3	79,38	76,08	3,4	**08BS 039**



08BS

08BS...FPM

08BS...FPM/SS



08BS bonded seals are used for screws and connectors.

By tightening the screws the elastomer sealing lip is compressed, thereby producing the sealing effect on the surfaces to be sealed. It stops the medium from leaking to the outside, thus preventing loss of pressure. In addition, it provides **protection against dirt** from the outside.

Operating conditions see page 8

Pressure	contact us
Temperature	
NBR	-30 to 100°C
FPM	-20 to 200°C

Materials see pages 10-19

① **08BS**	NBR 70 Sh A
08BS...FPM	FPM 70 Sh A
② **08BS**	passivated steel
08BS...FPM	passivated steel
08BS...FPM/SS	stainless steel

Assembly see pages 54-59

For bolts and connectors: see drawing on this page

Advantages

No sweating

Large range of elastomers and metals possible

Sealing for metric, Whitworth and BSP threads

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the different materials.

Tolerances

SERIE	A	B	C	E
0, 2, 3	+0,13 0	±0,13	±0,13	±0,15
5	0 -0,12	+0,2 0	+0,2 0	±0,15

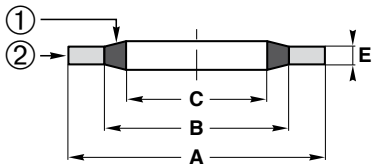
For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

08BS 2.. = German range

metric	A	B	C	E	Reference
M3,5	7,2	5,2	4,1	1	**08BS 201**
M4	7	5,4	4,5	1	**08BS 202**
M5	9	6,8	5,7	1	**08BS 203**
	10	7,4	5,7	1	**08BS 204**
M5,5	9,2	7,2	6,2	1	**08BS 205**
M6	10	8	6,7	1	**08BS 206**
	11	8,2	6,7	1	**08BS 207**
	11	8,2	6,7	2,5	**08BS 208**
	12	8,8	7,1	1	**08BS 209**
	10,2	8,6	7,3	1	**08BS 210**
M8	13,4	9,4	8,5	1	**08BS 211**
	13	10	8,7	1	**08BS 212**
	14	10,4	8,7	1	**08BS 213**
	16	10,4	8,7	1	**08BS 214**
	13,3	10,5	9,3	1	**08BS 215**
M10	16	12	10,35	2	**08BS 216**
	16	12,4	10,7	1,5	**08BS 217**
	18	12,4	10,7	1,5	**08BS 218**
M11	16,3	12,7	11,4	1,5	**08BS 219**
	18,5	13,7	11,8	1,5	**08BS 220**
	19,1	13,5	11,8	1,5	**08BS 221**
M12	18	14,4	12,7	1,5	**08BS 222**
	20	14	12,7	1,5	**08BS 223**
M13	20	15,4	13,7	1,5	**08BS 224**
	22	15,4	13,7	1,5	**08BS 225**
	18,7	15,7	14	1,5	**08BS 226**
M14	22	16,4	14,7	1,5	**08BS 227**
M15	22,7	17,78	16	1,5	**08BS 228**
M16	24	18,4	16,7	1,5	**08BS 229**

08BS 2.. = German range

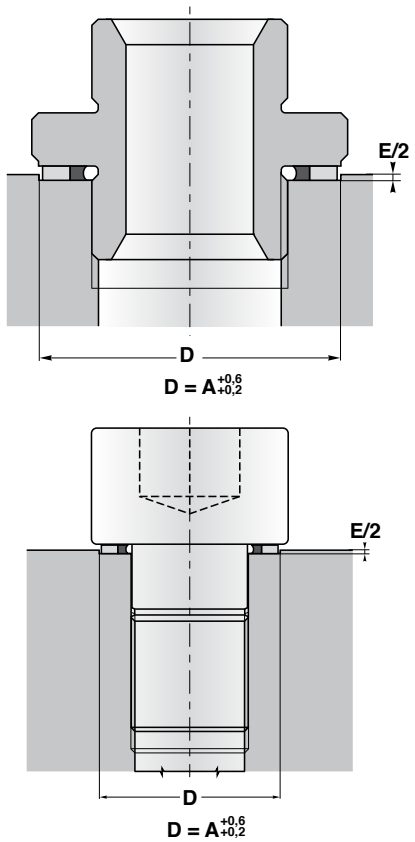
metric	A	B	C	E	Reference
M17	24	19,2	17,4	1,5	**08BS 230**
	24,7	20,1	18	1,5	**08BS 231**
M18	26	20,4	18,7	1,5	**08BS 232**
M20	28	22,5	20,7	1,5	**08BS 233**
M21	28,7	23,3	21,5	2,5	**08BS 234**
M22	28	24,2	22,5	1,5	**08BS 235**
	30	24,4	22,7	2	**08BS 236**
	30	24,4	22,7	3	**08BS 237**
M24	32	26,4	24,7	2	**08BS 238**
M26	35	28,4	26,7	2	**08BS 239**
M27	36	29	27,7	2	**08BS 240**
M30	39	33	31	2	**08BS 242**
M33	42	35,8	33,7	2	**08BS 243**
	43	36,4	34,3	2	**08BS 244**
M36	46	38,8	36,7	2	**08BS 245**
M39	51	41,9	40	2,5	**08BS 246**
M42	53	44	42,7	3	**08BS 247**
M48	59	50,8	48,7	3	**08BS 248**
M51	60	54,1	52	3	**08BS 249**
M52	64,5	56,4	53,3	3	**08BS 250**
M60	73	63	60,7	3	**08BS 251**



08BS

08BS...FPM

08BS...FPM/SS



08BS bonded seals are used for screws and connectors.

By tightening the screws the elastomer sealing lip is compressed, thereby producing the sealing effect on the surfaces to be sealed. It stops the medium from leaking to the outside, thus preventing loss of pressure. In addition, it provides **protection against dirt** from the outside.

Operating conditions see page 8

Pressure	contact us
Temperature	
NBR	-30 to 100°C
FPM	-20 to 200°C

Materials see pages 10-19

① **08BS**	NBR 70 Sh A
08BS...FPM	FPM 70 Sh A
② **08BS**	passivated steel
08BS...FPM	passivated steel
08BS...FPM/SS	stainless steel

Assembly see pages 54-59

For bolts and connectors: see drawing on this page

Advantages

No sweating

Large range of elastomers and metals possible

Sealing for metric, Whitworth and BSP threads

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the different materials.

Tolerances

SERIE	A	B	C	E
0, 2, 3	+0,13 0	±0,13	±0,13	±0,15
5	0 -0,12	+0,2 0	+0,2 0	±0,15

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

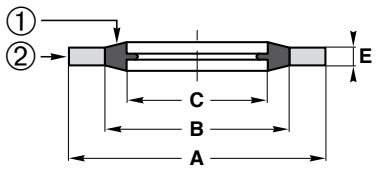
08BS 3.. = French range

metric	A	B	C	E	Reference
M3	7,5	5	3,6	1	**08BS 301**
M4	9	6	4,6	1	**08BS 302**
M5	10	7	5,6	1	**08BS 303**
M6	11	8	6,6	1	**08BS 304**
M6	13,27	8	6,85	1,3	**08BS 305**
M6	11,4	8,4	7	1	**08BS 306**
M8	13	10	8,6	1	**08BS 307**
M10	17	12,1	10,7	1,5	**08BS 310**
M11	18,1	13,2	11,8	1,5	**08BS 312**
M12	19	14,1	12,7	1,5	**08BS 313**
M13	20,1	15,2	13,8	1,5	**08BS 315**
M14	21	16,1	14,7	1,5	**08BS 316**
M16	23	18,1	16,7	1,5	**08BS 317**
M18	27	20,4	18,7	2	**08BS 320**
M20	29	22,4	20,7	2	**08BS 321**
M21	30	23,4	21,7	2	**08BS 323**
M22	31	24,4	22,7	2	**08BS 324**
M24	33	26,4	24,7	2	**08BS 326**
M26	35,3	28,7	27	2	**08BS 327**
M27	36	29,4	27,7	2	**08BS 328**
M28	36	30,3	28,6	2	**08BS 329**
M30	39	32,4	30,7	2	**08BS 331**
M33	42	35,4	33,7	2	**08BS 332**
M36	48	39,6	37	2,5	**08BS 333**
M39	51	42,6	40	2,5	**08BS 334**
M42	54	45,6	43	2,5	**08BS 335**
M45	57	48,6	46	2,5	**08BS 336**
M48	60	51,6	49	2,5	**08BS 337**

08BS 5.. = CETOP range

BSP	A	B	C	E	Reference
1/8	14,7	12	10,4	1,25	**08BS 510**
1/4	18,7	15,75	13,9	1,25	**08BS 511**
3/8	22,7	19,25	17,3	1,25	**08BS 512**
1/2	26,7	23,55	21,7	1,25	**08BS 513**
5/8	32,5	29,2	27,3	1,25	**08BS 514**
1	39,5	36,1	34,2	2	**08BS 515**
1-1/4	49,5	44,7	42,8	2	**08BS 516**
1-1/2	55,5	50,6	48,7	2	**08BS 517**
2	68,5	62,4	60,5	2	**08BS 518**

Recommanded by ISO 1179 norm

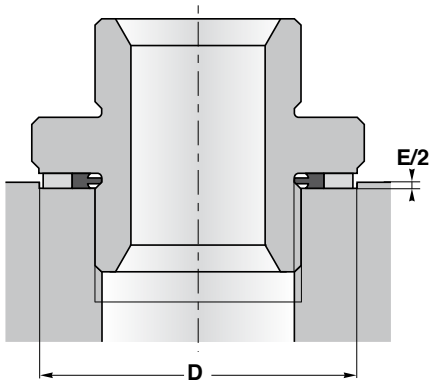


08BS9

08BS9...FPM

08BS9...NBR/SS

08BS9...FPM/SS



08BS9 bonded seals are used for screws and connectors.

By tightening the screws the elastomer sealing lip is compressed, thereby producing the sealing effect on the surfaces to be sealed. It stops the medium from leaking to the outside, thus preventing loss of pressure. In addition, it provides **protection against dirt** from the outside.

The centring feature of the **08BS9** type ensures that the bonded seal is fixed in the correct position for mounting and when tightening the screws, the captive mounting is guaranteed.

Operating conditions see page 8

Pressure	contact us
Temperature	
NBR	-30 to 100°C
FPM	-20 to 200°C

Materials see pages 10-19

① **08BS9**	NBR 70 Sh A
08BS9...FPM	FPM 70 Sh A
② **08BS9**	passivated steel
08BS9...FPM	passivated steel
08BS9...NBR/SS	stainless steel
08BS9...FPM/SS	stainless steel

Assembly see pages 54-59

For connectors: see drawing on this page

Advantages

- No sweating
- Large range of elastomers and metals possible
- Sealing for metric, Whitworth and BSP threads
- Captive mounting

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the different materials.

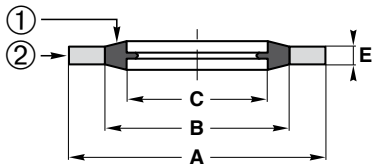
A	B	C	E
+0,13 0	±0,13	±0,13	±0,15

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

08BS 9.. = Self-centralising English range

BSP	Inch	A	B	C	E	Standard reference	Other references
	1/4	13,21	8	6,86	1,3	**08BS 904**	
	5/16	13,34	9,53	8,31	1,3	**08BS 906**	
	5/16	14,22	10,04	8,64	1,3	**08BS 907**	
	0,4	18,36	12,45	11,26	2	**08BS 908**	
	7/16	19,05	13,08	11,69	2	**08BS 909**	
	9/16	22,23	16,39	14,86	2	**08BS 910**	
	5/8	25,4	18,75	16,51	2	**08BS 911**	
	11/16	25,4	19,69	18,16	2,5	**08BS 912**	
	15/16	33,27	26,04	24,26	2,5	**08BS 913**	
	1.3/8	44,45	38,99	35,94	3,4	**08BS 916**	
	1.1/2	47,75	42,04	38,96	3,4	**08BS 917**	
	1.3/4	57,15	48,39	45,34	3,4	**08BS 918**	
1/8	**3/8**	15,88	11,84	10,37	2	**08BS 920**	**FPM/SS, NBR/SS**
1/4	**1/2**	20,57	15,21	13,74	2	**08BS 921**	**NBR/SS, FPM, FPM/SS**
3/8		23,8	18,75	17,28	2	**08BS 923**	**NBR/SS, FPM, FPM/SS**
	3/4	26,92	21,21	19,69	2,5	**08BS 924**	
1/2	**13/16**	28,58	23,01	21,54	2,5	**08BS 925**	**NBR/SS, FPM, FPM/SS**
5/8	**7/8**	31,75	24,97	23,49	2,5	**08BS 926**	**NBR/SS, FPM/SS**
3/4	**1**	34,93	28,53	27,05	2,5	**08BS 927**	**NBR/SS, FPM, FPM/SS**
7/8	**1-3/16**	38,1	32,29	30,81	2,5	**08BS 929**	**FPM**
1	**1-5/16**	42,8	36,88	33,89	3,2	**08BS 930**	**FPM**
1-1/4	**1-5/8**	52,38	45,93	42,93	3,2	**08BS 932**	**FPM**
1-1/2	**1-7/8**	58,6	51,39	48,44	3,2	**08BS 933**	
2		73,03	63,63	60,58	3,2	**08BS 936**	
2-1/2		90,3	79,38	76,08	3,25	**08BS 939**	

For prices and availability: **www.sealtech-business.be**

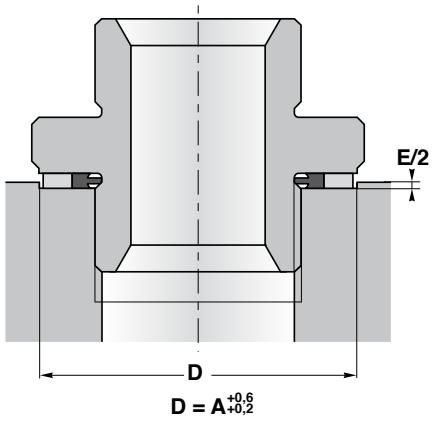


08BS9

08BS9...FPM

08BS9...NBR/SS

08BS9...FPM/SS



A	B	C	E
+0,13 0	±0,13	±0,13	±0,15

08BS9 bonded seals are used for screws and connectors.

By tightening the screws the elastomer sealing lip is compressed, thereby producing the sealing effect on the surfaces to be sealed. It stops the medium from leaking to the outside, thus preventing loss of pressure. In addition, it provides **protection against dirt** from the outside.

The centring feature of the **08BS9** type ensures that the bonded seal is fixed in the correct position for mounting and when tightening the screws, the captive mounting is guaranteed.

Operating conditions see page 8

Pressure	contact us
Temperature	
NBR	-30 to 100°C
FPM	-20 to 200°C

Materials see pages 10-19

① **08BS9**	NBR 70 Sh A
08BS9...FPM	FPM 70 Sh A
② **08BS9**	passivated steel
08BS9...FPM	passivated steel
08BS9...NBR/SS	stainless steel
08BS9...FPM/SS	stainless steel

Assembly see pages 54-59

For connectors: see drawing on this page

Advantages

No sweating

Large range of elastomers and metals possible

Sealing for metric, Whitworth and BSP threads

Captive mounting

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the different materials.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

08BS 92.. = Self-centralising German range

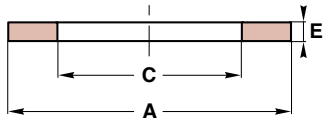
metric	A	B	C	E	Reference
M4	7	5,4	4,5	1	**08BS 9202**
M5	9	6,8	5,7	1	**08BS 9203**
	10	7,4	5,7	1	**08BS 9204**
M6	10	8	6,7	1	**08BS 9206**
	10	8	6,7	1	**08BS 9206 FPM/SS**
	11	8,2	6,7	1	**08BS 9207**
	11	8,2	6,7	1	**08BS 9207 FPM/SS**
	11	8,2	6,7	1	**08BS 9207 NBR/SS**
M8	13	10	8,7	1	**08BS 9212**
	14	10,4	8,7	1	**08BS 9213**
	14	10,4	8,7	1	**08BS 9213 FPM/SS**
	14	10,4	8,7	1	**08BS 9213 NBR/SS**
M8,5	13,3	10,5	9,3	1	**08BS 9215**
M10	16	12	10,35	2	**08BS 9216**
	16	12,4	10,7	1,5	**08BS 9217**
	16	12,4	10,7	1,5	**08BS 9217 FPM/SS**
	18	12,4	10,7	1,5	**08BS 9218**
M11	19,1	13,5	11,8	1,5	**08BS 9221**
M12	18	14,4	12,7	1,5	**08BS 9222**
	18	14,4	12,7	1,5	**08BS 9222 FPM/SS**
	18	14,4	12,7	1,5	**08BS 9222 NBR/SS**
M13	22	15,4	13,7	1,5	**08BS 9225**
M13,5	18,7	15,7	14	1,5	**08BS 9226**

metric	A	B	C	E	Reference
M14	22	16,4	14,7	1,5	**08BS 9227**
	22	16,4	14,7	1,5	**08BS 9227 FPM/SS**
M16	24	18,4	16,7	1,5	**08BS 9229**
	24	18,4	16,7	1,5	**08BS 9229 FPM/SS**
	24	18,4	16,7	1,5	**08BS 9229 NBR/SS**
M17	24	19,2	17,4	1,5	**08BS 9230**
M18	26	20,4	18,7	1,5	**08BS 9232**
	26	20,4	18,7	1,5	**08BS 9232 FPM/SS**
	26	20,4	18,7	1,5	**08BS 9232 NBR/SS**
M20	28	22,5	20,7	1,5	**08BS 9233**
	28	22,5	20,7	1,5	**08BS 9233 FPM/SS**
	28	22,5	20,7	1,5	**08BS 9233 NBR/SS**
M22	30	24,4	22,7	2	**08BS 9236**
	30	24,4	22,7	2	**08BS 9236 FPM/SS**
	30	24,4	22,7	2	**08BS 9236 NBR/SS**
M24	32	26,4	24,7	2	**08BS 9238**
	32	26,4	24,7	2	**08BS 9238 FPM/SS**
M26	35	28,4	26,7	2	**08BS 9239**
M27	36	29	27,7	2	**08BS 9240**
M30	39	32,8	30,7	2	**08BS 9242**
M33	42	35,8	33,7	2	**08BS 9243**
M36	46	38,8	36,7	2	**08BS 9245**

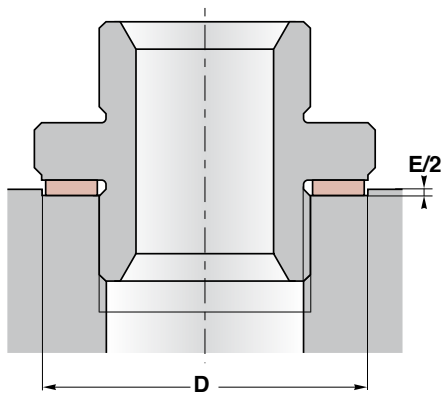
08BS 93.. = Self-centralising French range

metric	A	B	C	E	Reference
M5	10	7	5,6	1	**08BS 9303**
M6	11	8	6,6	1	**08BS 9304**
M8	13	10	8,6	1	**08BS 9307**
M10	17	12,1	10,7	1,5	**08BS 9310**
M12	19	14,1	12,7	1,5	**08BS 9313**
M14	21	16,1	14,7	1,5	**08BS 9316**

metric	A	B	C	E	Reference
M16	23	18,1	16,7	1,5	**08BS 9317**
M20	29	22,4	20,7	2	**08BS 9321**
M22	31	24,4	22,7	2	**08BS 9324**
M24	33	26,4	24,7	2	**08BS 9326**
M42	54	45,6	43	2,5	**08BS 9335**



08COR



08COR copper washers are used for screws and connectors.

By tightening the screws the copper material is compressed, thereby producing the sealing effect on the surfaces to be sealed. It stops the medium from leaking to the outside, thus preventing loss of pressure. In addition, it provides **protection against dirt** from the outside.

Operating conditions see page 8

Pressure	contact us
Temperature	-100°C to 150°C

Materials see pages 10-19

Copper	CU

Assembly see pages 54-59

For bolt and connector: see drawing on this page

Advantages

Good price-performance ratio

Possibility of sealing if the sealing sides are not parallel

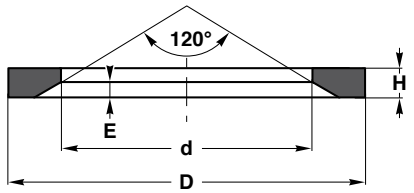
Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

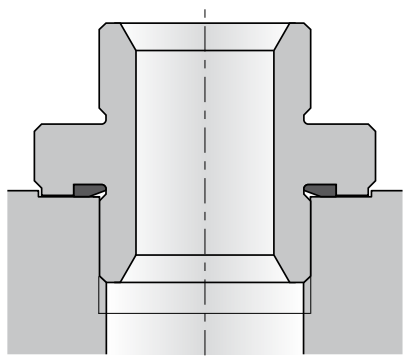
SEALTECH
Hydraulic Seals Technology

metric	BSP	C	A	E	Reference
M6		6	12	1,5	**08COR 06**
M8		8	12	1,5	**08COR 08**
M8		8	14	1,5	**08COR 08/1**
M10		10	14	1	**08COR 10**
M10	**1/8**	10	16	1,5	**08COR 10/1**
M12		12	18	1,5	**08COR 12**
	1/4	13	19	1,5	**08COR 13**
M14		14	18	1,5	**08COR 14**
M14		14	20	1,5	**08COR 14/1**
M16		16	22	1,5	**08COR 16/1**
	3/8	17	23	1,5	**08COR 17/1**
M18		18	24	1,5	**08COR 18/1**
M18		18	25	1,5	**08COR 18/2**
M20		20	26	1,5	**08COR 20**
	1/2	21	27	1,5	**08COR 21**
M22		22	28	1,5	**08COR 22**
	5/8	23	29	1	**08COR 23**
M24		24	30	1,5	**08COR 24**
	3/4	27	35	1,5	**08COR 27**
	1	33,6	41	1,5	**08COR 33**



08FC

08FC..FPM



08FC seals for fittings according to DIN 3869, are available on stock in NBR, FKM.

On request, we can produce them in EPDM or FFKM.

NBR seals are black, FKM ones are green and EPDM ones are purple.

Operating conditions see page 8

Pressure	≤ 50 MPa
Temperature	
NBR	-30°C to 100°C
FPM	-20°C to 200°C

Materials see pages 10-19

NBR	NBR 85 Sh A
FPM	FPM 85 Sh A

Assembly see pages 54-59

With connectors: see drawing on this page

Advantages

- Minimal mechanical deformation of the cross-section and minimal deformation under pressure
- No twisting in the groove
- Allows a lot of applications because of the variety in materials
- Long service life
- Captive mounting

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

NBR

metric	BSP	d	D	H	E	Reference
M 8x1	-	6,5	9,9	1	0,5	08FC 08
M 10x1	1/8	8,4	11,9	1	0,5	08FC 10
M 12x1,5	-	9,8	14,4	1,5	0,8	08FC 12
M 14x1,5	1/4	11,6	16,5	1,5	0,8	08FC 14
M 16x1,5	-	13,8	18,9	1,5	0,8	08FC 16
-	3/8	14,7	18,9	1,5	0,8	08FC 17
M 18x1,5	-	15,7	20,9	1,5	0,8	08FC 18
M 20x1,5	-	17,8	22,9	1,5	0,8	08FC 20
-	1/2	18,5	23,9	1,5	0,8	08FC 21
M 22x1,5	-	19,6	24,3	1,5	0,8	08FC 22
M 24x1,5	5/8	21,8	25,9	1,5	0,8	08FC 24
M 26x1,5 - M 27x2	3/4	23,9	29,2	1,5	0,8	08FC 27
M 33x2	1	29,7	35,7	2	1	08FC 33
M 42x2	1-1/4	38,8	45,8	2	1	08FC 42
M 48x2	1-1/2	44,7	50,7	2	1	08FC 48
M 60x2	2	56,5	66,5	4	2	08FC 60

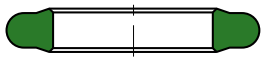
FPM

metric	BSP	d	D	H	E	Reference
M 8x1	-	6,5	9,9	1	0,5	08FC 08 FPM
M 10x1	1/8	8,4	11,9	1	0,5	08FC 10 FPM
M 12x1,5	-	9,8	14,4	1,5	0,8	08FC 12 FPM
M 14x1,5	1/4	11,6	16,5	1,5	0,8	08FC 14 FPM
M 16x1,5	-	13,8	18,9	1,5	0,8	08FC 16 FPM
-	3/8	14,7	18,9	1,5	0,8	08FC 17 FPM
M 18x1,5	-	15,7	20,9	1,5	0,8	08FC 18 FPM
M 20x1,5	-	17,8	22,9	1,5	0,8	08FC 20 FPM
-	1/2	18,5	23,9	1,5	0,8	08FC 21 FPM
M 22x1,5	-	19,6	24,3	1,5	0,8	08FC 22 FPM
M 26x1,5 - M 27x2	3/4	23,9	29,2	1,5	0,8	08FC 27 FPM
M 33x2	1	29,7	35,7	2	1	08FC 33 FPM
M 42x2	1-1/4	38,8	45,8	2	1	08FC 42 FPM
M 48x2	1-1/2	44,7	50,7	2	1	08FC 48 FPM
M 60x2	2	56,5	66,5	4	2	08FC 60 FPM

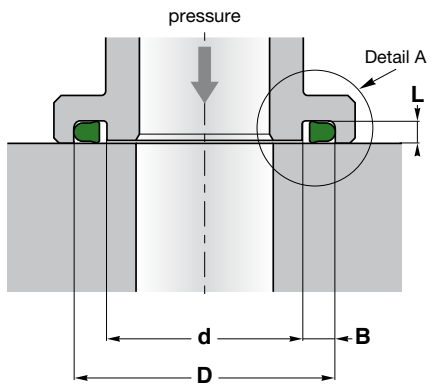
Housing dimensions in accordance with DIN 3852-11, and ISO 1179-2, ISO 9974-2, ISO 9974-3 and ISO 11926
Seals in accordance with DIN 3869

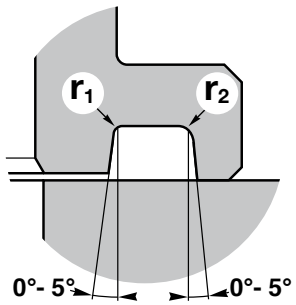
For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

For prices and availability: **www.sealtech-business.be**



08FS





Detail A

Machining of housings: see page 81

08FS PU seal has been developed to ensure a flange sealing and to substitute traditional O-rings when they are not suitable due to difficult conditions such as high pressure or rough surface finish.

A flush fitting with the outside diameter reduces the radial movements induced by the frequent “pull-in” phenomenon of pressure.

The material used to produce this seal is a PU compound for **extreme temperatures** that ensures excellent properties on wear-resistance, extended service life and resistance against extrusion.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-40°C to 120°C
Fluids	mineral oils

Materials	**see pages 10-19**
Polyurethane 92 Sh A	PU33

Assembly	**see pages 54-59**
On flanges SAE J518 3000 psi (21 MPa) and 6000 psi (42 MPa)	
On flanges ISO 6162-2	

Advantages

- Good extrusion resistance
- Long service life
- Large temperature range
- Easy assembly because the seal is maintained in its housing (captive mounting)
- Can be assembled on SAE and ISO flanges

Please contact us for applications approaching maximum values.

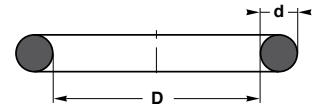
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

SAE J518 flanges

SAE	D	L	B	r1	r2	Ref.	Alternative: O-ring D x d	Alternative: SEALTECH code O-ring NBR 90 Sh A	Alternative: SEALTECH code O-ring FPM 90 Sh A
1/2	25,4/25,53	2,79/2,92	3,94/4,45	0,76	0,76	**08FS-08**	18,64 x 3,53	**03 353 1864**	**05 353 1864**
3/4	31,75/31,88	2,79/2,92	3,94/4,45	0,76	0,76	**08FS-12**	24,99 x 3,53	**03 353 2499**	**05 353 2499**
1	39,62/39,75	2,79/2,92	3,94/4,45	0,76	0,76	**08FS-16**	32,92 x 3,53	**03 353 3292**	**05 353 3292**
1-1/4	44,45/44,58	2,79/2,92	3,94/4,45	0,76	0,76	**08FS-20**	37,69 x 3,53	**03 353 3769**	**05 353 3769**
1-1/2	53,72/53,98	2,79/2,92	3,94/4,45	0,76	0,76	**08FS-24**	47,22 x 3,53	**03 353 4722**	**05 353 4722**
2	63,25/63,5	2,79/2,92	3,94/4,45	0,76	0,76	**08FS-32**	56,74 x 3,53	**03 353 5674**	**05 353 5674**
2-1/2	76,06/76,33	2,79/2,92	3,94/4,45	0,76	0,76	**08FS-40**	69,44 x 3,53	**03 353 6944**	**05 353 6944**
3	91,82/92,08	2,79/2,92	3,94/4,45	0,76	0,76	**08FS-48**	85,32 x 3,53	**03 353 8532**	**05 353 8532**

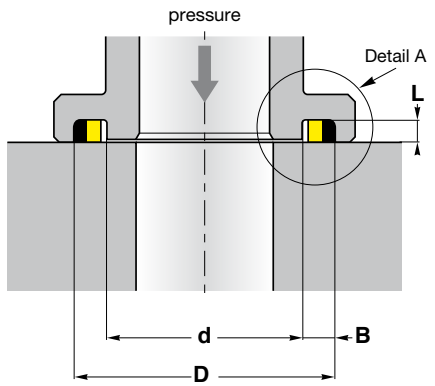


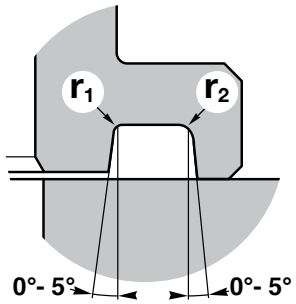
Alternative:
O-ring NBR 90 Sh A - FPM 90 Sh A

ISO 6162-2 flanges

DN	D	L	B	r1	r2	Ref.	Alternative: O-ring D x d	Alternative: SEALTECH code O-ring NBR 90 Sh A	Alternative: SEALTECH code O-ring FPM 90 Sh A
13	25,5/25,65	2,8/2,9	4,1/4,6	0,4/0,8	1,2/1,5	**08FS-08**	18,64 x 3,53	**03 353 1864**	**05 353 1864**
19	31,6/31,75	2,8/2,9	4,1/4,6	0,4/0,8	1,2/1,5	**08FS-12**	24,99 x 3,53	**03 353 2499**	**05 353 2499**
25	39,1/39,25	2,8/2,9	4,1/4,6	0,4/0,8	1,2/1,5	**08FS-16**	32,92 x 3,53	**03 353 3292**	**05 353 3292**
32	44/44,15	2,8/2,9	4,1/4,6	0,4/0,8	1,2/1,5	**08FS-20**	37,69 x 3,53	**03 353 3769**	**05 353 3769**
38	53,7/53,9	2,8/2,9	4,1/4,6	0,4/0,8	1,2/1,5	**08FS-24**	47,22 x 3,53	**03 353 4722**	**05 353 4722**
51	62,5/62,75	2,8/2,9	4,1/4,6	0,4/0,8	1,2/1,5	**08FS-32**	56,74 x 3,53	**03 353 5674**	**05 353 5674**

08SFS





Detail A

Machining of housings: see page 81

The PU seal type **08SFS** has been developed to ensure a flange sealing sealing and to substitute traditional O-rings when they are not suitable due to difficult conditions such as high pressure or rough surface finish.

A flush fitting with the outside diameter reduces the radial movements induced by the frequent “pull in” phenomenon of pressure.

The materials used to produce this seal are **two different PU compounds** that ensure excellent properties on wear-resistance, extended service life and resistance against extrusion.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-40°C to 90°C
Fluids	mineral oils

Materials	**see pages 10-19**
① **Polyurethane** 59 Sh A	PU 28 : yellow
② **Polyurethane** 95 Sh A	PU 27 : black

Assembly	**see pages 54-59**
On flanges SAE J518 3000 psi (21 MPa) and 6000 psi (42 MPa)	

Advantages

- Good extrusion resistance
- Long service life
- Easy assembly because the seal is maintained in its housing (captive mounting)
- Good resistance to vibration and low temperatures

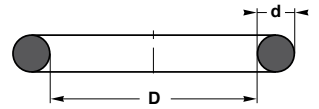
Please contact us for applications approaching maximum values.

More information

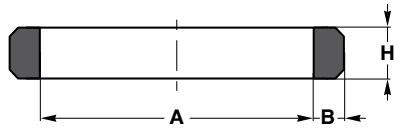
On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

SAE J518 flanges

SAE	D	L	B	r1	r2	Ref.	Alternative: O-ring D x d	Alternative: SEALTECH code O-ring NBR 90 Sh A	Alternative: SEALTECH code O-ring FPM 90 Sh A
1/2	25,4/25,53	2,79/2,92	3,94/4,45	0,76	0,76	**08SFS-08**	18,64 x 3,53	**03 353 1864**	**05 353 1864**
3/4	31,75/31,88	2,79/2,92	3,94/4,45	0,76	0,76	**08SFS-12**	24,99 x 3,53	**03 353 2499**	**05 353 2499**
1	39,62/39,75	2,79/2,92	3,94/4,45	0,76	0,76	**08SFS-16**	32,92 x 3,53	**03 353 3292**	**05 353 3292**
1-1/4	44,45/44,58	2,79/2,92	3,94/4,45	0,76	0,76	**08SFS-20**	37,69 x 3,53	**03 353 3769**	**05 353 3769**
1-1/2	53,72/53,98	2,79/2,92	3,94/4,45	0,76	0,76	**08SFS-24**	47,22 x 3,53	**03 353 4722**	**05 353 4722**
2	63,25/63,5	2,79/2,92	3,94/4,45	0,76	0,76	**08SFS-32**	56,74 x 3,53	**03 353 5674**	**05 353 5674**
2-1/2	76,06/76,33	2,79/2,92	3,94/4,45	0,76	0,76	**08SFS-40**	69,44 x 3,53	**03 353 6944**	**05 353 6944**
3	91,82/92,08	2,79/2,92	3,94/4,45	0,76	0,76	**08SFS-48**	85,32 x 3,53	**03 353 8532**	**05 353 8532**
3-1/2	104,01/104,52	2,79/2,92	3,94/4,45	0,76	0,76	**08SFS-56**	88,49 x 3,53	**03 353 8849**	**05 353 8849**
4	116,71/117,22	2,79/2,92	3,94/4,45	0,76	0,76	**08SFS-64**	101,19 x 3,53	**03 353 10119**	**05 353 10119**
5	142,11/142,62	2,79/2,92	3,94/4,45	0,76	0,76	**08SFS-80**	126,59 x 3,53	**03 353 12659**	**05 353 12659**



Alternative :
O-ring NBR 90 Sh A - FPM 90 Sh A



08D-RING

Machining of housings: see pages 48-49

The **08D-RING** is designed to replace traditional seals in flange seal applications. With bidirectional sealing capability, the **08D-RING** provides exceptional sealing for static seal applications.

The rectangular base offers stability, preventing seal rolling and the leaks or seal failures commonly associated with a rolled or twisted seal.

Operating conditions	**see page 8**
Pressure	≤ 42 MPa
Temperature	-40 to 100°C
Fluids	mineral oils

Materials	**see pages 10-19**
NBR	NBR 90 Sh A

Assembly **see pages 54-59**

On CAT® flanges

Advantages

- Good extrusion resistance
- Long service life
- Easy assembly because the seal is maintained in its housing (captive mounting)
- Good resistance to vibration and low temperatures

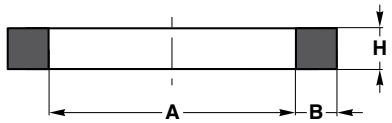
Please contact us for applications approaching maximum values.

More information

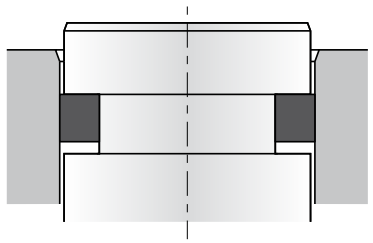
On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

A	B	H	Reference
18,9	3,4	4,95	**08D-RING 1P3700**
25,25	3,4	4,95	**08D-RING 1P3702**
31,6	3,4	4,95	**08D-RING 1P3703**
37,95	3,4	4,95	**08D-RING 1P3704**
44,37	3,4	4,95	**08D-RING 1P3705**
50,72	3,4	4,95	**08D-RING 1P3706**
54,2	3,4	4,95	**08D-RING 1P3707**
57,07	3,4	4,95	**08D-RING 1P3708**
63,42	3,4	4,95	**08D-RING 1P3709**

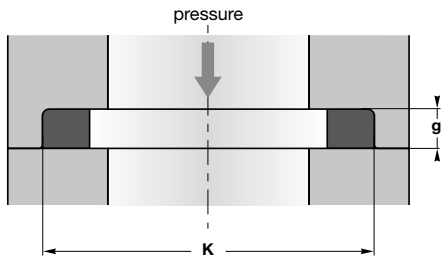
For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.



08KS



Radial assembly



For **K** and **g** please contact us.

Axial assembly

Machining of housings: see pages 48-49

08KS is a sealing device with a square or rectangular cross-section.

The primary reason for using a **08KS** in a sealing application is that they perform the sealing function in a superior manner - and at a cost lower than any other comparable sealing device. For existing applications, there is no need to change the design or procedures.

Square rings are available in a variety of rubber and thermoplastic materials such as NBR, FPM, EPDM, PTFE... In most static applications, a square ring will serve as a direct **replacement for an O-ring** and generally will perform a high pressure sealing function as well as or better than an O-ring.

Operating conditions see page 8

Pressure	≤ 50 MPa
Temperature	-30°C to 100°C

Materials see pages 10-19

NBR	NBR 90 Sh A

Assembly see pages 54-59

Axial: in open housings

Radial: also possible, contact us

Advantages

Excellent resistance to extrusion

Minimal mechanical deformation of the cross-section and minimal deformation under pressure

No twisting in the groove

Can be used in many different applications due to the large seletion of materials

Long service life

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

NBR 90 Sh A					NBR 90 Sh A				
A	**B**	**H**	**Additional item code**	**Reference**	**A**	**B**	**H**	**Additional item code**	**Reference**
6,07	1,68	1,68	6,07 x 1,68 x 1,68	**08KS 06**	**18,64**	3,53	3,53	18,64 x 3,53 x 3,53	**08KS 18**
7,3	1,4	1,5	7,3 x 1,4 x 1,5	**08KS 07**	**19**	3	3	19 x 3 x 3	**08KS 19**
8,01	1,6	1,78	8,01 x 1,6 x 1,78	**08KS 08**	**22,53**	2,3	2,62	22,53 x 2,3 x 2,62	**08KS 22**
8,41	1,4	1,78	8,41 x 1,4 x 1,78	**08KS 08/1**	**25,8**	3,53	3,53	25,8 x 3,53 x 3,53	**08KS 25**
9,81	1,5	1,78	9,81 x 1,5 x 1,78	**08KS 09**	**26,58**	3,53	3,53	26,58 x 3,53 x 3,53	**08KS 26**
10	2	2	10 x 2 x 2	**08KS 10**	**27,8**	2,6	3	27,8 x 2,6 x 3	**08KS 27**
11,18	1,6	1,78	11,18 x 1,6 x 1,78	**08KS 11**	**28,43**	3,4	3,53	28,43 x 3,4 x 3,53	**08KS 28**
12,81	2,4	2,62	12,81 x 2,4 x 2,62	**08KS 12**	**33,34**	3,53	3,53	33,34 x 3,53 x 3,53	**08KS 33**
13	1,6	2	13 x 1,6 x 2	**08KS 13**	**34,52**	3,53	3,53	34,52 x 3,53 x 3,53	**08KS 34**
13	2,3	2,62	13 x 2,3 x 2,62	**08KS 13/1**	**36,58**	3,53	3,53	36,58 x 3,53 x 3,53	**08KS 36**
14,6	1,6	1,78	14,6 x 1,6 x 1,78	**08KS 14**	**37,69**	3,53	3,53	37,69 x 3,53 x 3,53	**08KS 37**
15,54	2	2	15,54 x 2 x 2	**08KS 15**	**42,5**	3	3	42,5 x 3 x 3	**08KS 42**
16,56	1,5	1,78	16,56 x 1,5 x 1,78	**08KS 16**	**47,5**	3,53	3,53	47,5 x 3,53 x 3,53	**08KS 47**
17,56	2,4	2,62	17,56 x 2,4 x 2,62	**08KS 17**	**54,5**	3,53	3,53	54,5 x 3,53 x 3,53	**08KS 54**

Example of application: directional valves

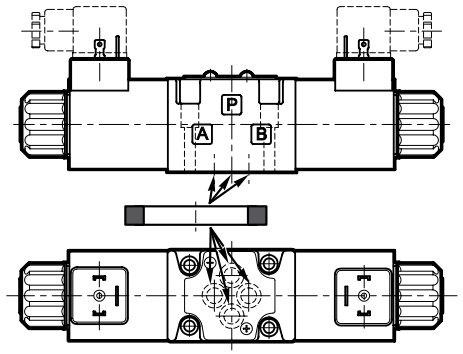
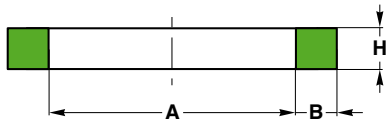


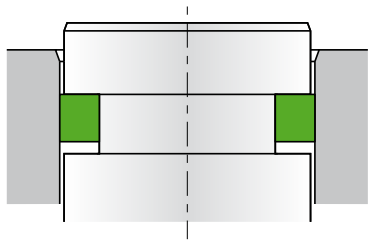
Table 259
Directional valves set of seals

Valve size	Description of the set of seals
NG 6	4 pcs **08KS 09**
NG 10	5 pcs **08KS 13**
NG 16	4 pcs **08KS 22** + 3 pcs **08KS 10**
NG 25	4 pcs **08KS 27** + 3 pcs **08KS 19**
NG 32	4 pcs **08KS 42** + 3 pcs **08KS 19**

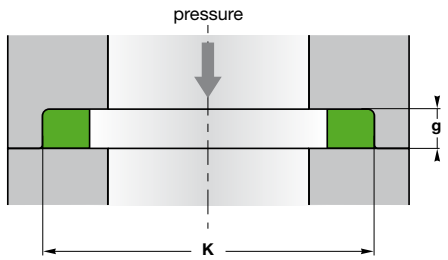
For prices and availability: **www.sealtech-business.be**



08KS...FPM



Radial assembly



For **K** and **g** please contact us.

Axial assembly

Machining of housings: see pages 48-49

08KS...FPM is a sealing device with a square or rectangular cross-section.

The primary reason for using a **08KS...FPM** in a sealing application is that they perform the sealing function in a superior manner - and at a cost lower than any other comparable sealing device. For existing applications, there is no need to change the design or procedures.

Square rings are available in a variety of rubber and thermoplastic materials such as NBR, FPM, EPDM, PTFE... In most static applications, a square ring will serve as a direct **replacement for an O-ring** and generally will perform a high pressure sealing function as well as or better than an O-ring.

Operating conditions see page 8

Pressure	≤ 50 MPa
Temperature	-10°C to 200°C

Materials see pages 10-19

FPM	FPM 90 Sh A

Assembly see pages 54-59

Axial: in open housings

Radial: also possible, contact us

Advantages

Excellent resistance to extrusion

Minimal mechanical deformation of the cross-section and minimal deformation under pressure

No twisting in the groove

Can be used in many different applications due to the large seletion of materials

Long service life

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

FPM 90 Sh A				
A	B	H	Additional item code	Reference
5,64	1,6	1,78	5,64 x 1,6 x 1,78	**08KS 05 FPM**
6,07	1,68	1,68	6,07 x 1,68 x 1,68	**08KS 06 FPM**
7,3	1,4	1,5	7,3 x 1,4 x 1,5	**08KS 07 FPM**
8,41	1,4	1,78	8,41 x 1,4 x 1,78	**08KS 08/1 FPM**
8,76	1,5	1,5	8,76 x 1,5 x 1,5	**08KS 08/2 FPM**
9,81	1,5	1,78	9,81 x 1,5 x 1,78	**08KS 09 FPM**
10	2	2	10 x 2 x 2	**08KS 10 FPM**
10,82	1,5	1,78	10,82 x 1,5 x 1,78	**08KS 10/2 FPM**
	1,68	1,68	10,82 x 1,68 x 1,68	**08KS 10/1 FPM**
11,18	1,6	1,78	11,18 x 1,6 x 1,78	**08KS 11 FPM**
13	1,6	2	13 x 1,6 x 2	**08KS 13 FPM**
	2,3	2,62	13 x 2,3 x 2,62	**08KS 13/1 FPM**
14,2	2,3	2,62	14,2 x 2,3 x 2,62	**08KS 14/1 FPM**
14,6	1,6	1,78	14,6 x 1,6 x 1,78	**08KS 14 FPM**
15,54	2	2	15,54 x 2 x 2	**08KS 15 FPM**
16,56	1,5	1,78	16,56 x 1,5 x 1,78	**08KS 16 FPM**
17,56	2,4	2,62	17,56 x 2,4 x 2,62	**08KS 17 FPM**
18,64	3,53	3,53	18,64 x 3,53 x 3,53	**08KS 18 FPM**
18,72	2,62	2,62	18,72 x 2,62 x 2,62	**08KS 18/1 FPM**

FPM 90 Sh A				
A	B	H	Additional item code	Reference
19	3	3	19 x 3 x 3	**08KS 19 FPM**
22,53	2,3	2,62	22,53 x 2,3 x 2,62	**08KS 22 FPM**
23,47	2,62	2,62	23,47 x 2,62 x 2,62	**08KS 23 FPM**
25,8	3,53	3,53	25,8 x 3,53 x 3,53	**08KS 25 FPM**
26,57	3,53	3,53	26,57 x 3,53 x 3,53	**08KS 26 FPM**
26,64	2,62	2,62	26,64 x 2,62 x 2,62	**08KS 26/1 FPM**
27,5	2,62	2,62	27,5 x 2,62 x 2,62	**08KS 27/1 FPM**
27,8	2,6	3	27,8 x 2,6 x 3	**08KS 27 FPM**
28,43	3,4	3,53	28,43 x 3,4 x 3,53	**08KS 28 FPM**
29,82	2,62	2,62	29,82 x 2,62 x 2,62	**08KS 29 FPM**
33,34	3,53	3,53	33,34 x 3,53 x 3,53	**08KS 33 FPM**
34,52	3,53	3,53	34,52 x 3,53 x 3,53	**08KS 34 FPM**
34,59	2,62	2,62	34,59 x 2,62 x 2,62	**08KS 34/1 FPM**
37,69	3,53	3,53	37,69 x 3,53 x 3,53	**08KS 37 FPM**
42,5	3	3	42,5 x 3 x 3	**08KS 42 FPM**
47	3	3	47 x 3 x 3	**08KS 47/1 FPM**
66,27	3,53	3	66,27 x 3,53 x 3	**08KS 66 FPM**

Example of application: directional valves

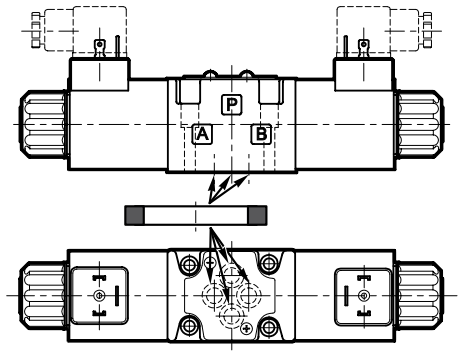
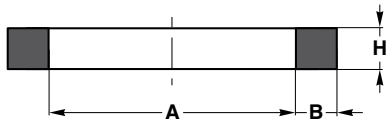


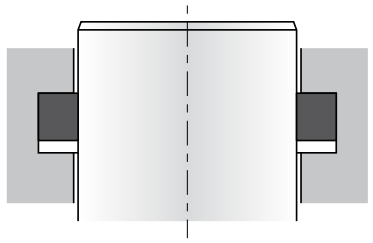
Table 261
Directional valves set of seals

Valve size	Description of the set of seals
NG 6	4 pcs **08KS 09 FPM**
NG 10	5 pcs **08KS 13 FPM**
NG 16	4 pcs **08KS 22 FPM** + 3 pcs **08KS 10 FPM**
NG 25	4 pcs **08KS 27 FPM** + 3 pcs **08KS 19 FPM**
NG 32	4 pcs **08KS 42 FPM** + 3 pcs **08KS 19 FPM**

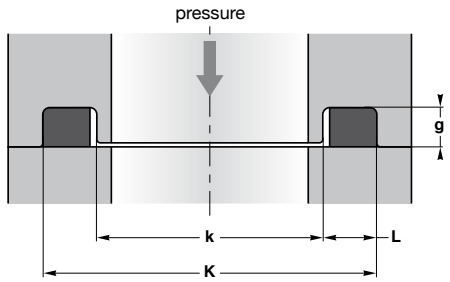
For prices and availability: **www.sealtech-business.be**



08KS7



Radial assembly



For **K**, **k**, **L** and **g** please contact us.

Axial assembly

Machining of housings: see pages 48-49

08KS7 is a sealing device with a square cross-section.

For existing applications, there is no need to change the design or procedures. Square rings fit in O-ring grooves and are interchangeable size for size.

In most applications, the **08KS7** are used as energising element for PTFE composite seals.

Operating conditions — see page 8

Pressure	≤ 25 MPa
Temperature	-30°C to 100°C

Materials — see pages 10-19

NBR	NBR 70 Sh A

Assembly — see pages 54-59

Axial: in closed housings

Radial: also possible, contact us

Advantages

Excellent resistance to extrusion

Minimal mechanical deformation of the cross-section and minimal deformation under pressure

No twisting in the groove

Can be used in many different applications due to the large seletion of materials

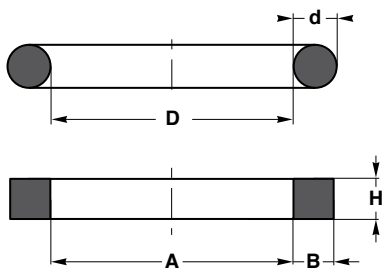
Long service life

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

Comparison O-ring and square ring

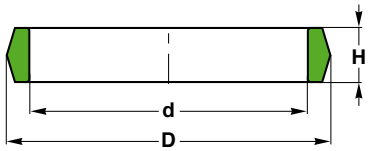


d	1,78	2,62	3,53	5,34	7 (6,99)
B = H	1,68	2,51	3,4	5,16	6,73

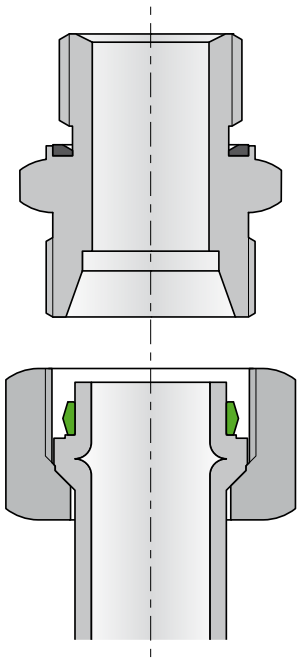
For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

NBR 70 Sh A				
A	**B**	**H**	**Reference O-ring**	**Reference**
17,12	2,51	2,51	17,12 X 2,62	**08KS7 017**
23,47	2,51	2,51	23,47 X 2,62	**08KS7 023**
26,64	2,51	2,51	26,64 X 2,62	**08KS7 026**
28,17	3,4	3,4	28,17 X 3,53	**08KS7 028**
32,92	3,4	3,4	32,92 X 3,53	**08KS7 032**
34,29	5,16	5,16	34,29 X 5,34	**08KS7 034**
37,69	3,4	3,4	37,69 X 3,53	**08KS7 037**
37,47	5,16	5,16	37,47 X 5,34	**08KS7 037/1**
43,82	5,16	5,16	43,82 X 5,34	**08KS7 043**
44,04	3,4	3,4	44,04 X 3,53	**08KS7 044**
46,99	5,16	5,16	46,99 X 5,34	**08KS7 046**
47,22	3,4	3,4	47,22 X 3,53	**08KS7 047**
50,8	3,4	3,4	50,8 X 3,53	**08KS7 050**
50,17	5,16	5,16	50,17 X 5,34	**08KS7 050/1**
53,57	3,4	3,4	53,57 X 3,53	**08KS7 053**
53,34	5,16	5,16	53,34 X 5,34	**08KS7 053/1**
56,74	3,4	3,4	56,74 X 3,53	**08KS7 056**
56,52	5,16	5,16	56,52 X 5,34	**08KS7 056/1**
62,87	5,16	5,16	62,87 X 5,34	**08KS7 062**
63,09	3,4	3,4	63,09 X 3,53	**08KS7 063**
69,22	5,16	5,16	69,22 X 5,34	**08KS7 069**
72,39	5,16	5,16	72,39 X 5,34	**08KS7 072**
78,74	5,16	5,16	78,74 X 5,34	**08KS7 078**
78,74	6,73	6,73	78,74 X 7	**08KS7 078/1**

NBR 70 Sh A				
A	**B**	**H**	**Reference O-ring**	**Reference**
81,92	5,16	5,16	81,92 X 5,34	**08KS7 081**
88,27	5,16	5,16	88,27 X 5,34	**08KS7 088**
94,62	5,16	5,16	94,62 X 5,34	**08KS7 094**
97,79	5,16	5,16	97,79 X 5,34	**08KS7 097**
104,14	5,16	5,16	104,14 X 5,34	**08KS7 104**
107,32	5,16	5,16	107,32 X 5,34	**08KS7 107**
107,32	6,73	6,73	107,32 X 7	**08KS7 107/1**
113,67	5,16	5,16	113,67 X 5,34	**08KS7 113**
113,67	6,73	6,73	113,67 X 7	**08KS7 113/1**
116,67	6,73	6,73	116,67 X 7	**08KS7 116**
123,19	6,73	6,73	123,19 X 7	**08KS7 123**
126,37	6,73	6,73	126,37 X 7	**08KS7 126**
132,72	6,73	6,73	132,72 X 7	**08KS7 132**
139,07	6,73	6,73	139,07 X 7	**08KS7 139**
142,24	5,16	5,16	142,24 X 5,34	**08KS7 142**
148,59	6,73	6,73	148,59 X 7	**08KS7 148**
158,18	6,73	6,73	158,18 X 7	**08KS7 158**
164,47	6,73	6,73	164,47 X 7	**08KS7 164**
177,17	6,73	6,73	177,17 X 7	**08KS7 177**
196,22	6,73	6,73	196,22 X 7	**08KS7 196**
227,97	6,73	6,73	227,97 X 7	**08KS7 227**
253,37	6,73	6,73	253,37 X 7	**08KS7 253**
291,47	6,73	6,73	291,47 X 7	**08KS7 291**



08CS



08CS seals are assembled with fittings according to DIN - ISO 8434-1. The standard materiel used is a FPM rubber.

On request, we can produce them in other elastomers.

Operating conditions	**see page 8**
Pressure	≤ 80 MPa
Temperature	-10°C to 200°C

Materials	**see pages 10-19**
FPM	FPM 80 Sh A

Assembly	**see pages 54-59**
Axial : in open housings	

Application

For fittings — DIN - ISO 8434-1

Advantages

- Good extrusion resistance
- Long service life
- Easy assembly because the seal is maintained in its housing
- Good resistance to vibration and high temperatures

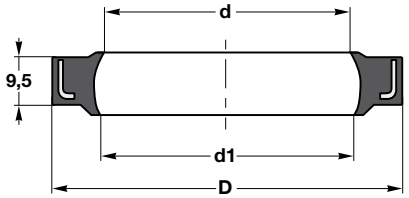
Please contact us for applications approaching maximum values.

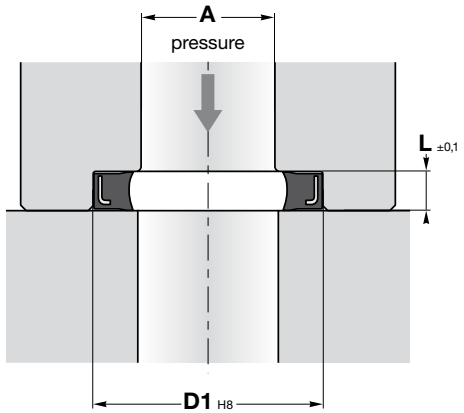
More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

d	D	H	Reference
6	8	2,7	**08CS 06 L/S**
8	10	2,7	**08CS 08 L/S**
10	12,2	2,95	**08CS 10 L/S**
12	14,2	2,95	**08CS 12 L**
15	17,2	2,95	**08CS 15 L**
18	20,2	2,95	**08CS 18 L**
22	24,2	2,95	**08CS 22 L**
28	30,2	2,95	**08CS 28 L**
35	37,8	3,5	**08CS 35 L**
42	44,8	3,5	**08CS 42 L**
16	18,2	2,95	**08CS 16 S**
20	23	3,7	**08CS 20 S**
25	28	3,7	**08CS 25 S**
30	33	3,85	**08CS 30 S**
38	40,8	3,5	**08CS 38 S**

08Y-RING





Machining of housings: see pages 48-49

The **08Y-RING** have been designed and manufactured to meet the requirements of industrial air and water front static seals operating with pressure of around 15 bar.

Over years such products have also been used for dynamic applications at low speeds.

Some examples can be: the use as sealing rings in perforating machines, concrete injecting machines or equipment for steel industry.

Both applications can be considered burdensome due to vibrations and implicit abrasive substances of such machines.

08Y-RING, thanks to their special profile and tough metallic core completely drown in the seal body, have however given excellent results.

Operating conditions	**see page 8**
Pressure	≤ 1,5 MPa
Temperature	-30 to 100°C
Fluids	mineral oils

Materials	**see pages 10-19**
① Seal	NBR 90 Sh A
② Metal cage	Steel 1.4541

Assembly — **see pages 54-59**

Must be pressed in an open housing

Advantages

Good extrusion resistance

Easy assembly because the seal is maintained in its housing

The metal cage gives a good resistance to depression

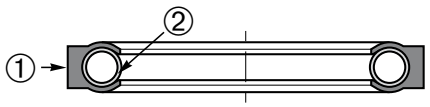
Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

D	d1	d	D1	A	L	Reference
45	21	20	45	16	10	**08Y-RING 20-171**
45	26	25	45	21	10	**08Y-RING 20-14032**
57,15	33,15	32,15	57	28	10	**08Y-RING 20-173**
65	41	40	65	36	10	**08Y-RING 20-170**
69,85	45,85	44,85	70	40	10	**08Y-RING 20-174**
69,85	51	50	70	46	10	**08Y-RING 20-175**
75	51	50	75	46	10	**08Y-RING 20-176**
82,55	58,55	57,55	82,5	53	10	**08Y-RING 20-177**
85	61	60	85	56	10	**08Y-RING 20-178**
90	66	65	90	61	10	**08Y-RING 20-179**
95,25	71,25	70,25	95,5	66	10	**08Y-RING 20-180**
100	81	80	100	76	10	**08Y-RING 20-181**
105	81	80	105	76	10	**08Y-RING 20-182**
111,13	87,13	86,13	111	82	10	**08Y-RING 20-183**
120	96	95	120	91	10	**08Y-RING 20-184**
140	121	120	140	116	10	**08Y-RING 20-185**
145	121	120	145	1116	10	**08Y-RING 20-186**
149,23	125,23	124,23	149,5	120	10	**08Y-RING 20-187**
155	131	130	155	126	10	**08Y-RING 20-188**
170	146	145	170	141	10	**08Y-RING 20-189**
193,67	169,67	166,67	193,5	164	10	**08Y-RING 20-190**
195	171	170	195	166	10	**08Y-RING 20-191**
210	186	185	210	181	10	**08Y-RING 20-192**
250	226	225	250	221	10	**08Y-RING 20-193**
270	246	245	270	241	10	**08Y-RING 20-194**

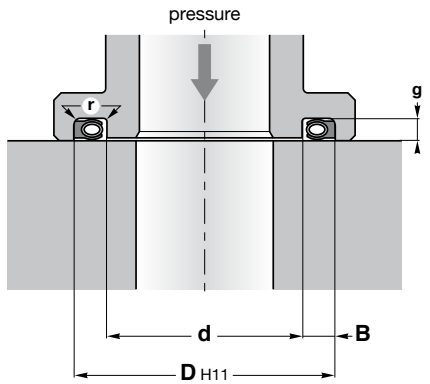
PTFE static seal for flanges



25FOI MACHINED

Example of item code

25FOI PT01/SS 50 x 40 x 4
Profile | Materials ①/② | **D** x **d** x **g** (mm)



Machining of housings: see pages 48-49

25FOI is a seal for axial (face) applications. The seal is available for internal pressure. The use of the heavy helical spring makes the **25FOI** the best choice for vacuum, gas and low temperature flange and cover applications.

Operating conditions	**see page 8**
Pressure	≤ 80 MPa
Temperature	-200°C to 260°C
Speed	slow rotating movements
Fluids	mineral oils, HFA, HFB, HFC, HFD

Materials	**see pages 10-19**
① Seal	PT01, PT15, PT30, PT55
② Spring	SS

Assembly	**see pages 54-59**
Axial: on flanges, between two mechanical parts	

Advantages

- High sealing pressure
- Excellent sealability in gas and fluid applications
- Can handle rapid changes in temperature
- Good sealability on non-ideal surfaces
- Easy installation
- Unlimited shelf life

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the different materials.

The table below shows the dimensions of grooves typically used, depending on outside diameters.

25FOI

D (mm)	B min (mm)	g (mm)	tol. g (mm)	r (mm)
10 - 40	2,4	1,45	0 / +0,03	0,25
13 - 200	3,6	2,25	0 / +0,05	0,38
18 - 400	4,8	3,1	0 / +0,08	0,38
28 - 700	7,1	4,7	0 / +0,1	0,38
45 - 1000	9,5	6,1	0 / +0,15	0,51
110 - 2500	15	9,5	0 / +0,2	0,51

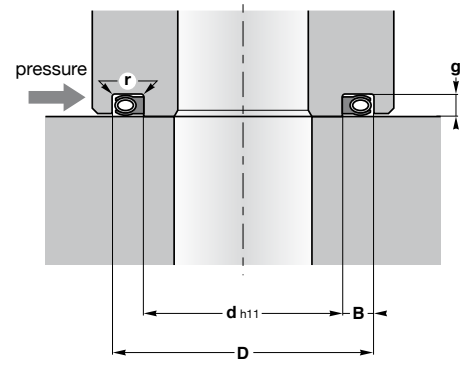
For special requirements (fluid, temperature, pressure, speed...) or applications approaching maximum values, please contact us.

PTFE static seal for flanges

25FOE MACHINED

Example of item code

25FOE PT01/SS 50 x 40 x 4
Profile | Materials ①/② | **D** x **d** x **g** (mm)



Machining of housings: see pages 48-49

25FOE is a seal for axial (face) applications. The seal is available for external pressure. The use of the heavy helical spring makes the **25FOE** the best choice for vacuum, gas and low temperature flange and cover applications.

Operating conditions	**see page 8**
Pressure	≤ 80 MPa
Temperature	-200°C to 260°C
Speed	slow rotating movements
Fluids	mineral oils, HFA, HFB, HFC, HFD

Materials	**see pages 10-19**
① Seal	PT01, PT15, PT30, PT55
② Spring	SS

Assembly	**see pages 54-59**
Axial: on flanges, between two mechanical parts	

Advantages

- High sealing pressure
- Excellent sealability in gas and fluid applications
- Can handle rapid changes in temperature
- Good sealability on non-ideal surfaces
- Easy installation
- Unlimited shelf life

Please contact us for applications approaching maximum values.

More information

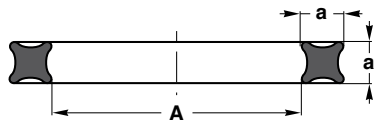
On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the different materials.

The table below shows the dimensions of grooves typically used, depending on inside diameters.

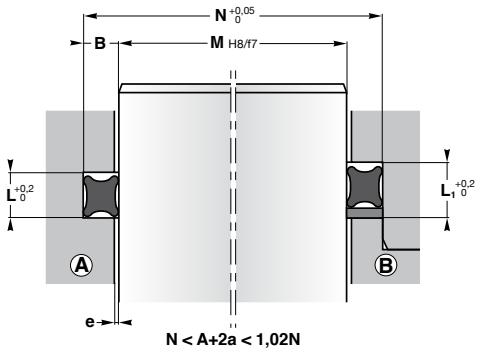
25FOE

d (mm)	B min (mm)	g (mm)	tol. g (mm)	r (mm)
3 - 40	2,4	1,45	0 / +0,03	0,25
8 - 200	3,6	2,25	0 / +0,05	0,38
12 - 400	4,8	3,1	0 / +0,08	0,38
20 - 700	7,1	4,7	0 / +0,1	0,38
35 - 1000	9,5	6,1	0 / +0,15	0,51

For prices and availability: **www.sealtech-business.be**

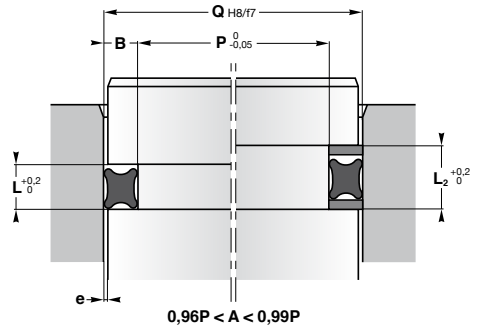


10QR



Internal housing

a	e max
1,78	0,05
2,62 - 3,53	0,07
5,34 - 6,99	0,1



External housing

Machining of housings: see pages 48-49

10QR, commonly called X-ring, is a four-lip seal with a special developed sealing profile. It is an endless circular ring with an almost square cross-section.

X-rings are used and handled in much the same way as O-rings but in many cases, a more efficient seal can be achieved.

The range of application is quite extensive due to the **many types** of existing elastomer materials allowing almost any medium to be effectively sealed off.

Operating conditions see page 8

Pressure (static)	≤ 15 MPa
with back-up rings (static)	≤ 40 MPa
Temperature	-30°C to 100°C
Fluids	mineral oils, HFA, HFB, HFC
Max. linear speed	0,5 m/sec
In rotation (contact us)	≤ 2 m/sec

Materials see pages 10-19

NBR NBR 70 Sh A

Assembly see pages 54-59

Outer sealing: in open or closed housings

Inner sealing: item codes marked with • have to be mounted in an open groove (type Ⓑ of the drawing)

Advantages

Compact and low friction seal

Many applications in static, dynamic and rotative sealing

No twisting in the groove

Good price-performance ratio

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

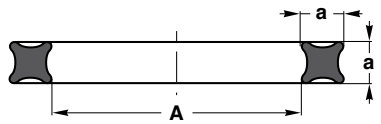
For special requirements (fluid, temperature, pressure, speed...) or applications approaching maximum values, please contact us.

QR cross section	A x a	Reference	QR cross section	A x a	Reference	QR cross section	A x a	Reference
1,78	2,9 x 1,78	**10QR 006 •**	**3,53**	13,87 x 3,53	**10QR 207**	**5,34**	37,47 x 5,34	**10QR 325**
	3,68 x 1,78	**10QR 007 •**		18,64 x 3,53	**10QR 210**		39,2 x 5,34	**10QR 326A**
	4,47 x 1,78	**10QR 008 •**		20,22 x 3,53	**10QR 211**		40,65 x 5,34	**10QR 326**
	5,28 x 1,78	**10QR 009**		21,82 x 3,53	**10QR 212**		43,82 x 5,34	**10QR 327**
	6,07 x 1,78	**10QR 010**		23,4 x 3,53	**10QR 213**		45,2 x 5,34	**10QR 328A**
	7,65 x 1,78	**10QR 011**		24,99 x 3,53	**10QR 214**		47 x 5,34	**10QR 328**
	8,2 x 1,78	**10QR 012A**		26,58 x 3,53	**10QR 215 XSEL**		50,16 x 5,34	**10QR 329**
	9,25 x 1,78	**10QR 012**		26,58 x 3,53	**10QR 215**		53,34 x 5,34	**10QR 330**
	107,67 x 1,78	**10QR 046**		28,17 x 3,53	**10QR 216 XSEL**		56,52 x 5,34	**10QR 331**
2,62	9,19 x 2,62	**10QR 110**		28,17 x 3,53	**10QR 216**		59,69 x 5,34	**10QR 332**
	10,77 x 2,62	**10QR 111**		29,75 x 3,53	**10QR 217**		62,87 x 5,34	**10QR 333**
	12,37 x 2,62	**10QR 112**		31,34 x 3,53	**10QR 218**		66,04 x 5,34	**10QR 334**
	13,94 x 2,62	**10QR 113**		32,92 x 3,53	**10QR 219**		69,22 x 5,34	**10QR 335**
	14,7 x 2,62	**10QR 114A**		34,52 x 3,53	**10QR 220**		72,39 x 5,34	**10QR 336**
	15,54 x 2,62	**10QR 114**		36,09 x 3,53	**10QR 221**		75,57 x 5,34	**10QR 337**
	16,2 x 2,62	**10QR 115A**		37,69 x 3,53	**10QR 222**		78,74 x 5,34	**10QR 338**
	17,12 x 2,62	**10QR 115**		40,87 x 3,53	**10QR 223**		81,92 x 5,34	**10QR 339**
	18,72 x 2,62	**10QR 116**		44,05 x 3,53	**10QR 224**		85,09 x 5,34	**10QR 340**
	20,29 x 2,62	**10QR 117**		47,22 x 3,53	**10QR 225**		88,27 x 5,34	**10QR 341**
	25,07 x 2,62	**10QR 120**		56,74 x 3,53	**10QR 228**		91,44 x 5,34	**10QR 342**
	29,82 x 2,62	**10QR 123**		91,67 x 3,53	**10QR 239**		94,62 x 5,34	**10QR 343**
	31,42 x 2,62	**10QR 124**		104,37 x 3,53	**10QR 243**		97,79 x 5,34	**10QR 344**
	34,59 x 2,62	**10QR 126**		120,25 x 3,53	**10QR 248**		100,97 x 5,34	**10QR 345**
	40,95 x 2,62	**10QR 130**		240,89 x 3,53	**10QR 272**		104,14 x 5,34	**10QR 346**
	113,97 x 2,62	**10QR 157**		266,29 x 3,53	**10QR 275**		107,32 x 5,34	**10QR 347**
							110,5 x 5,34	**10QR 348**
							113,67 x 5,34	**10QR 349**
							123,19 x 5,34	**10QR 352**
							135,89 x 5,34	**10QR 356**
							142,24 x 5,34	**10QR 358**

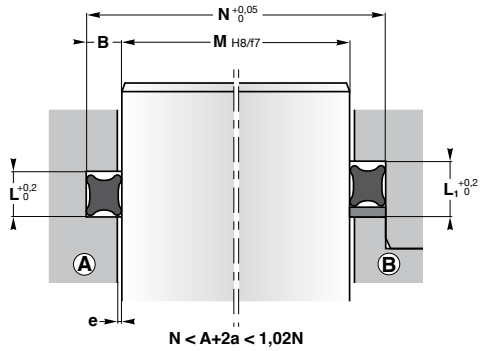
Table 271 - Groove dimensions

A		1,78	2,62	3,53	5,34	6,99
Static application	**B**	1,4	2,15	2,9	4,3	5,7
	L	2,1	3,1	4,1	6,4	8,4
	L1	3,5	4,5	5,5	8,1	10,9
	L2	4,9	5,9	6,9	9,8	13,4
Dynamic application and rotation	**B**	1,55	2,35	3,25	4,9	6,5
	L	2	3	4	6	8
	L1	3,4	4,4	5,4	7,7	10,5
	L2	4,8	5,8	6,8	9,4	13

For prices and availability: **www.sealtech-business.be**

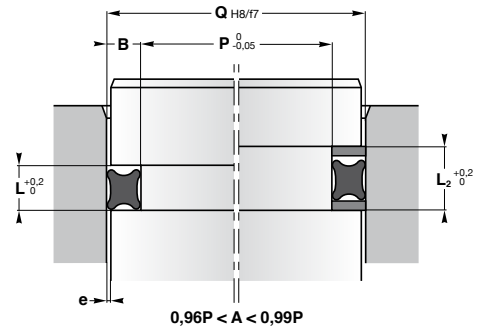


10QR



Internal housing

a	e max
1,78	0,05
2,62 - 3,53	0,07
5,34 - 6,99	0,1



External housing

Machining of housings: see pages 48-49

10QR, commonly called X-ring, is a four-lip seal with a special developed sealing profile. It is an endless circular ring with an almost square cross-section.

X-rings are used and handled in much the same way as O-rings but in many cases, a more efficient seal can be achieved.

The range of application is quite extensive due to the **many types** of existing elastomer materials allowing almost any medium to be effectively sealed off.

Operating conditions see page 8

Pressure (static)	≤ 15 MPa
with back-up rings (static)	≤ 40 MPa
Temperature	-30°C to 100°C
Fluids	mineral oils, HFA, HFB, HFC
Max. linear speed	0,5 m/sec
In rotation (contact us)	≤ 2 m/sec

Materials see pages 10-19

NBR NBR 70 Sh A

Assembly see pages 54-59

Outer sealing: in open or closed housings

Inner sealing: item codes marked with • have to be mounted in an open groove (type Ⓑ of the drawing)

Advantages

Compact and low friction seal

Many applications in static, dynamic and rotative sealing

No twisting in the groove

Good price-performance ratio

Please contact us for applications approaching maximum values.

More information

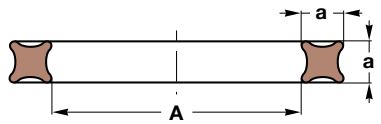
On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

For special requirements (fluid, temperature, pressure, speed...) or applications approaching maximum values, please contact us.

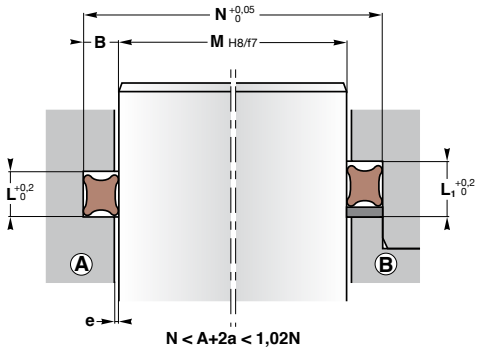
QR cross section	A x a	Reference	QR cross section	A x a	Reference
6,99	113,67 x 6,99	10QR 425	6,99	183,52 x 6,99	10QR 442
	116,84 x 6,99	10QR 426		189,87 x 6,99	10QR 443
	120,02 x 6,99	10QR 427		196,22 x 6,99	10QR 444
	123,2 x 6,99	10QR 428		202,57 x 6,99	10QR 445
	126,37 x 6,99	10QR 429		215,27 x 6,99	10QR 446
	129,54 x 6,99	10QR 430		227,97 x 6,99	10QR 447
	132,72 x 6,99	10QR 431		240,67 x 6,99	10QR 448
	135,9 x 6,99	10QR 432		253,3 x 6,99	10QR 449
	139,06 x 6,99	10QR 433		266,07 x 6,99	10QR 450
	142,24 x 6,99	10QR 434		278,77 x 6,99	10QR 451
	145,42 x 6,99	10QR 435		291,47 x 6,99	10QR 452
	148,6 x 6,99	10QR 436		304,17 x 6,99	10QR 453
				316,87 x 6,99	10QR 454
	151,77 x 6,99	10QR 437			
	158,12 x 6,99	10QR 438		329,57 x 6,99	10QR 455
	164,47 x 6,99	10QR 439		342,3 x 6,99	10QR 456
				355 x 6,99	10QR 457
	170,82 x 6,99	10QR 440			
	173,52 x 6,99	10QR 440A		367,67 x 6,99	10QR 458
	177,17 x 6,99	10QR 441		380,37 x 6,99	10QR 459
				393,07 x 6,99	10QR 460

Table 273 - Groove dimensions

A		1,78	2,62	3,53	5,34	6,99
Static application	B	1,4	2,15	2,9	4,3	5,7
	L	2,1	3,1	4,1	6,4	8,4
	L_1	3,5	4,5	5,5	8,1	10,9
	L_2	4,9	5,9	6,9	9,8	13,4
Dynamic application and rotation	B	1,55	2,35	3,25	4,9	6,5
	L	2	3	4	6	8
	L_1	3,4	4,4	5,4	7,7	10,5
	L_2	4,8	5,8	6,8	9,4	13

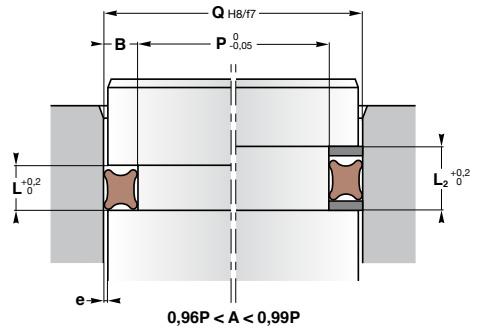


11QR...FPM



Internal housing

a	e max
1,78	0,05
2,62 - 3,53	0,07
5,34 - 6,99	0,1



External housing

Machining of housings: see pages 48-49

11QR...FPM, commonly called X-ring, is a four-lip seal with a special developed sealing profile. It is an endless circular ring with an almost square cross-section.

X-rings are used and handled in much the same way as O-rings but in many cases, a more efficient seal can be achieved.

The range of application is quite extensive due to the **many types** of existing elastomer materials allowing almost any medium to be effectively sealed off.

Operating conditions — see page 8

Pressure (static)	≤ 15 MPa
with back-up rings (static)	≤ 40 MPa
Temperature	-20°C to 200°C
Fluids	mineral oils, HFA, HFB, HFD
Max. linear speed	0,5 m/sec
In rotation (contact us)	≤ 2 m/sec

Materials — see pages 10-19

FPM FPM 70 Sh A

Assembly — see pages 54-59

Outer sealing: in open or closed housings

Inner sealing: item codes marked with • have to be mounted in an open groove (type Ⓑ of the drawing)

Advantages

Compact and low friction seal

Many applications in static, dynamic and rotative sealing

No twisting in the groove

Please contact us for applications approaching maximum values.

More information

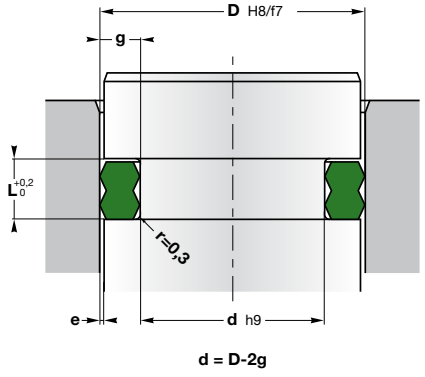
On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

QR cross section	A x a	Reference
1,78	9,25 x 1,78	**11QR 012 FPM**
2,62	12,37 x 2,62	**11QR 112 FPM**
	17,12 x 2,62	**11QR 115 FPM**
3,53	18,64 x 3,53	**11QR 210 FPM**
	34,52 x 3,53	**11QR 220 FPM**
	37,69 x 3,53	**11QR 222 FPM**
	240,89 x 3,53	**11QR 272 FPM**
5,34	69,22 X 5,34	**11QR 335 FPM**
	78,74 X 5,34	**11QR 338 FPM**
6,99	215,27 x 6,99	**11QR 446 FPM**

Table 275 - Groove dimensions

A		1,78	2,62	3,53	5,34	6,99
Static application	**B**	1,4	2,15	2,9	4,3	5,7
	L	2,1	3,1	4,1	6,4	8,4
	L_1	3,5	4,5	5,5	8,1	10,9
	L_2	4,9	5,9	6,9	9,8	13,4
Dynamic application and rotation	**B**	1,55	2,35	3,25	4,9	6,5
	L	2	3	4	6	8
	L_1	3,4	4,4	5,4	7,7	10,5
	L_2	4,8	5,8	6,8	9,4	13

10XS.../AK...



d = D-2g

External housing

Machining of housings: see pages 48-49

Pressure (MPa)	5	10	20	30	40	50
e max (mm)	0,6	0,4	0,2	0,12	0,08	0,05

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

10XS.../AK... seal has been developed to be used as a valid alternative for O-ring in heavy duty applications to avoid the extrusion and damage which normally occur in the presence of large gaps or high pressure.

It is a static (preferable) seal energised by pressure and can work as a single or double acting sealing element. The radial sealing forces, which guarantee good sealing performance, increase when the pressure rises.

Thanks to its elasticity, it can be installed **very easily** in a short time and without any auxiliaries.

The material used for most dimensions is a polyurethane compound for **extreme temperatures** that ensure excellent properties on wear-resistance, extended service life and resistance against extrusion.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	
PU33	-40 to 120°C
PU18	-30 to 90°C

Materials	**see pages 10-19**
Polyurethane 92 Sh A	PU33: dark green
Polyurethane 94 Sh A	PU18: green

Assembly	**see pages 54-59**
Replaces O-ring without back-up	

Advantages

The **depths** and **widths** of the grooves of O-rings do not always meet the ISO standard. For O-rings with a cross section of 3,53 mm the groove depth can vary **from 2,70 (ISO norm) to 3,10 mm** and the widths **from 4,00 to 4,70 mm (ISO norm)**.

For this reason SEALTECH has developed a new universal static seal: the **10XS.../AK...** which advantageously replaces the O-ring in all common and more complicated applications.

The **10XS.../AK...** profile has the following advantages:

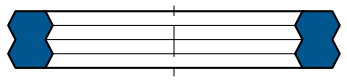
- Compact and interchangeable with O-ring
- Exceptional resistance to **extrusion**
- Reliable for **depths** and **widths** range according the tables thereafter
- Easy and safe installation
- The clearance between the parts can be **larger**
- Available for a **wide range** of bores (from 40 up to 200 mm)
- The anti-extrusion ring is **not needed**
- Very efficient for **repairs and new constructions** (in the case of new constructions: use the ISO dimensions for the groove)
- Contact us for dynamic sealing applications

Please contact us for applications approaching maximum values.

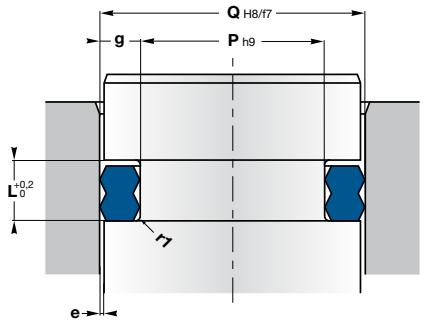
For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

XS cross section	D	g	L	PU	Reference
2,62	25 to 26	2 to 2,25	3,1 to 3,6	PU33	**10XS 25/AK262**
	30 to 31	2 to 2,25	3,1 to 3,6	PU33	**10XS 30/AK262**
	35 to 36	2 to 2,25	3,1 to 3,6	PU33	**10XS 35/AK262**
3,53	40 to 41,9	2,7 to 3,1	4 to 4,8	PU33	**10XS 40/AK353**
	42 to 43,9	2,7 to 3,1	4 to 4,8	PU18	**10XS 42/AK353**
	44 to 45,9	2,7 to 3,1	4 to 4,8	PU18	**10XS 44/AK353**
	46 to 47,9	2,7 to 3,1	4 to 4,8	PU18	**10XS 46/AK353**
	48 to 49,9	2,7 to 3,1	4 to 4,8	PU18	**10XS 48/AK353**
	50 to 52,9	2,7 to 3,1	4 to 4,8	PU33	**10XS 50/AK353**
	53 to 55,9	2,7 to 3,1	4 to 4,8	PU18	**10XS 53/AK353**
	56 to 59,9	2,7 to 3,1	4 to 4,8	PU18	**10XS 56/AK353**
	60 to 62,9	2,7 to 3,1	4 to 4,8	PU33	**10XS 60/AK353**
	63 to 65,9	2,7 to 3,1	4 to 4,8	PU33	**10XS 63/AK353**
	66 to 69,9	2,7 to 3,1	4 to 4,8	PU18	**10XS 66/AK353**
	70 to 72,9	2,7 to 3,1	4 to 4,8	PU33	**10XS 70/AK353**
	73 to 75,9	2,7 to 3,1	4 to 4,8	PU18	**10XS 73/AK353**
	76 to 79,9	2,7 to 3,1	4 to 4,8	PU18	**10XS 76/AK353**
	80 to 84	2,7 to 3,1	4 to 4,8	PU33	**10XS 80/AK353**
5,34	80 to 84,9	4,3 to 4,7	5,9 to 7,1	PU33	**10XS 80/AK534**
	85 to 89,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 85/AK534**
	90 to 94,9	4,3 to 4,7	5,9 to 7,1	PU33	**10XS 90/AK534**
	95 to 99,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 95/AK534**
	100 to 104,9	4,3 to 4,7	5,9 to 7,1	PU33	**10XS 100/AK534**
	105 to 109,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 105/AK534**
	110 to 114,9	4,3 to 4,7	5,9 to 7,1	PU33	**10XS 110/AK534**
	115 to 119,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 115/AK534**
	120 to 124,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 120/AK534**
	125 to 129,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 125/AK534**
	130 to 135,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 130/AK534**
	136 to 142,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 136/AK534**
	143 to 149,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 143/AK534**
	150 to 157,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 150/AK534**
	158 to 165,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 158/AK534**
	166 to 173,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 166/AK534**
	174 to 181,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 174/AK534**
	182 to 189,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 182/AK534**
	190 to 199,9	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 190/AK534**
	200 to 210	4,3 to 4,7	5,9 to 7,1	PU18	**10XS 200/AK534**

10XS.../AK... seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**



10XS



External housing

Machining of housings: see pages 48-49

Pressure (MPa)	5	10	20	30	40	50
e max (mm)	0,6	0,4	0,2	0,12	0,08	0,05

10XS seal has been developed to be used as a valid alternative for O-ring, O-ring with one or two back-up rings. **10XS** are used for heavy duty applications to avoid the extrusion and damage which normally occur in the presence of large gaps or high pressure.

It is a static (preferable) seal energised by pressure and can work as a single or double acting sealing element. The radial sealing forces, which guarantee good sealing performance, increase when the pressure rises.

Thanks to its elasticity, it can be installed **very easily** in a short time and without any auxiliaries.

The material used to produce this seal is a polyurethane compound that ensures excellent properties on wear-resistance, **extended service life** and resistance against extrusion.

Operating conditions see page 8

Pressure	≤ 50 MPa
Temperature	-30 to 80°C

Materials see pages 10-19

Polyurethane	PU10, PU09

Assembly see pages 54-59

Replaces O-rings with 1 or 2 back-up rings

Advantages

Good extrusion resistance
Long service life
Safety in comparison with O-rings and back-up rings
No twisting in the groove
Many applications possible

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

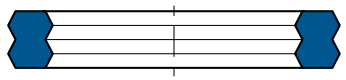
Info:
The static seals **10XS** can replace O-ring and O-ring with one or two back-up rings.
They have however **their own housing dimensions**, which are not necessarily the same as the normalised housing of O-ring with back-up ring.
The elasticity of the **10XS** permits mountings in housings which are slightly different than prescribed. Please contact us in these cases.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

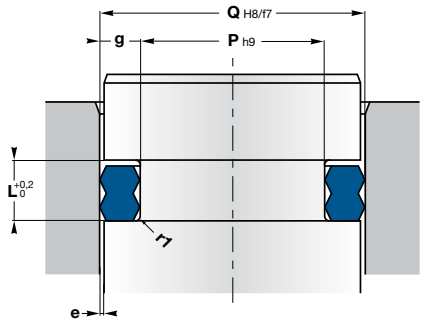
Q	P	L	r1	Reference
9	5,9	2,6	0,3	**10XS 9**
10	7,6	3,6	0,3	**10XS 10**
12	9,4	3,8	0,3	**10XS 12/2**
13	8,5	3,6	0,3	**10XS 13/1**
	10,2	2,5	0,3	**10XS 13**
14	10,9	2,6	0,3	**10XS 14**
15	11,9	2,5	0,3	**10XS 15/3**
16	12,9	2,5	0,3	**10XS 16/2**
	13,6	3,4	0,3	**10XS 16/1**
17,5	14,6	3,5	0,3	**10XS 17.5/4**
18	12	6	0,3	**10XS 18/1**
	14,9	2,5	0,3	**10XS 18/2**
	15,6	3,4	0,3	**10XS 18**
19	14,5	3,6	0,3	**10XS 19/4**
	15,6	3,4	0,3	**10XS 19/3**
	16,6	2,6	0,3	**10XS 19/2**
20	15,5	3,6	0,3	**10XS 20**
	16	3,2	0,3	**10XS 20/4**
	16,6	3,4	0,3	**10XS 20/1**
	16,6	4,4	0,3	**10XS 20/3**
	17,6	3,4	0,3	**10XS 20/2**
21	17,6	4,4	0,3	**10XS 21**
22	17,5	3,6	0,3	**10XS 22**
	19,4	3,8	0,3	**10XS 22/2**
	19,6	3,4	0,3	**10XS 22/1**
22,5	19,9	3,5	0,3	**10XS 22.5/1**
23	19,6	4,4	0,3	**10XS 23**
	20	3,8	0,3	**10XS 23/2**
	20,6	3,4	0,3	**10XS 23/1**
24	21,6	3,4	0,3	**10XS 24**
25	20,5	3,6	0,3	**10XS 25**
26	22	4,4	0,3	**10XS 26**
	23,1	3,5	0,3	**10XS 26/1**

Q	P	L	r1	Reference
28	23	5	0,3	**10XS 28/1**
	23,8	5,3	0,3	**10XS 28**
28,6	25,6	3,6	0,3	**10XS 28.6**
29	24,5	3,6	0,3	**10XS 29**
30	25,1	4,4	0,3	**10XS 30/2**
	25,4	5,4	0,3	**10XS 30**
	25,5	3,5	0,3	**10XS 30/4**
	26,9	2,5	0,3	**10XS 30/5**
31	26,4	4,9	0,3	**10XS 31**
32	27,4	5,4	0,3	**10XS 32**
	27,5	3,6	0,3	**10XS 32/1**
34	28,4	5,3	0,3	**10XS 34/1**
	31,1	3,6	0,3	**10XS 34**
35	26,6	6,5	0,3	**10XS 35/3**
	28,8	4,8	0,3	**10XS 35/2**
	30,4	4,9	0,3	**10XS 35**
	30,5	3,6	0,3	**10XS 35/1**
35,5	30,9	4,9	0,3	**10XS 35.5**
37	30,8	4,8	0,3	**10XS 37**
38	31,8	4,8	0,3	**10XS 38/2**
	32,4	5,3	0,3	**10XS 38/1**
38,6	34	4	0,3	**10XS 38.6**
40	33,8	4,8	0,3	**10XS 40/3**
	35,2	5,4	0,3	**10XS 40**
	35,4	5,4	0,3	**10XS 40/1**
	35,5	3,6	0,3	**10XS 40/2**
41	35,1	6,5	0,3	**10XS 41**
42	36,4	4,8	0,3	**10XS 42**
45	40	5,4	0,3	**10XS 45/1**
48	43	3,6	0,3	**10XS 48**
49	44,5	3,6	0,3	**10XS 49**
50	43,8	4,8	0,3	**10XS 50/6**
	43,8	6	0,3	**10XS 50/5**
	44,6	6,2	0,3	**10XS 50/1**
	45,4	5,4	0,3	**10XS 50/3**
	47,5	3,6	0,3	**10XS 50/4**

10XS seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**



10XS



External housing

Machining of housings: see pages 48-49

Pressure (MPa)	5	10	20	30	40	50
e max (mm)	0,6	0,4	0,2	0,12	0,08	0,05

10XS seal has been developed to be used as a valid alternative for O-ring, O-ring with one or two back-up rings. **10XS** are used for heavy duty applications to avoid the extrusion and damage which normally occur in the presence of large gaps or high pressure.

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Thanks to its elasticity, it can be installed **very easily** in a short time and without any auxiliaries.

The material used to produce this seal is a polyurethane compound that ensures excellent properties on wear-resistance, **extended service life** and resistance against extrusion.

Operating conditions see page 8

Pressure	≤ 50 MPa
Temperature	-30 to 80°C

Materials see pages 10-19

Polyurethane	PU10, PU09

Assembly see pages 54-59

Replaces O-rings with 1 or 2 back-up rings

Advantages

- Good extrusion resistance
- Long service life
- Safety in comparison with O-rings and back-up rings
- No twisting in the groove
- Many applications possible

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

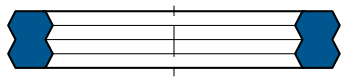
Info:
The static seals **10XS** can replace O-ring and O-ring with one or two back-up rings.
They have however **their own housing dimensions**, which are not necessarily the same as the normalised housing of O-ring with back-up ring.
The elasticity of the **10XS** permits mountings in housings which are slightly different than prescribed. Please contact us in these cases.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

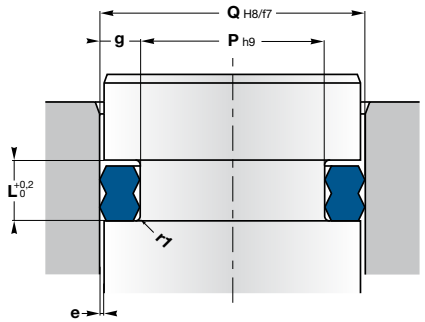
Q	P	L	r1	Reference
50,5	45,5	4,2	0,3	**10XS 50/7**
51	46,5	3,6	0,3	**10XS 51**
52	47,5	3,5	0,3	**10XS 52**
54	47,8	4,8	0,3	**10XS 54**
55	49,6	6,2	0,3	**10XS 55/2**
	49,9	5,3	0,3	**10XS 55/1**
	50	6,7	0,3	**10XS 55/3**
	50,5	3,5	0,3	**10XS 55/4**
	51	3,5	0,3	**10XS 55**
57	52,2	4,1	0,3	**10XS 57**
60	53,8	4,8	0,3	**10XS 60/2**
	54,4	5,8	0,3	**10XS 60**
	54,6	6,2	0,3	**10XS 60/1**
61	54,8	4,8	0,3	**10XS 61**
	56	4,5	0,3	**10XS 61/1**
62	55,8	4,8	0,3	**10XS 62**
63	53,8	9,7	0,6	**10XS 63/5**
	56,6	6,4	0,3	**10XS 63/1**
	57,4	4,8	0,3	**10XS 63**
	57,6	6,2	0,3	**10XS 63/3**
	58,4	5,4	0,3	**10XS 63/4**
64	57,8	4,8	0,3	**10XS 64**
65	58,8	4,8	0,3	**10XS 65/3**
	59,4	5	0,3	**10XS 65**
	59,6	6,2	0,3	**10XS 65/2**
	60	5	0,3	**10XS 65/1**
	60,5	5	0,3	**10XS 65/4**
70	61,3	8,7	0,3	**10XS 70/4**
	63,8	4,8	0,3	**10XS 70/3**
	64,3	6,7	0,3	**10XS 70/5**
	64,6	6,2	0,3	**10XS 70/1**
	65	5	0,3	**10XS 70**
72	66,4	5	0,3	**10XS 72**
73	68,5	3,6	0,3	**10XS 73**
75	68,8	4,8	0,3	**10XS 75/2**
	69,4	5,3	0,3	**10XS 75**
	69,6	6,2	0,3	**10XS 75/4**
78	73	5	0,3	**10XS 78**

Q	P	L	r1	Reference
80	70,6	9,5	0,6	**10XS 80/9**
	70,8	8,8	0,6	**10XS 80/6**
	73,6	6,4	0,3	**10XS 80/1**
	73,8	4,8	0,3	**10XS 80/7**
	73,8	6	0,3	**10XS 80/8**
	73,8	6,9	0,3	**10XS 80/3**
	74,4	5,3	0,3	**10XS 80**
	75,4	5,4	0,3	**10XS 80/5**
	76	3,6	0,3	**10XS 80/4**
81	73	6,6	0,3	**10XS 81**
85	78,6	6,4	0,3	**10XS 85/1**
	79,3	6,7	0,3	**10XS 85/2**
	79,4	5,3	0,3	**10XS 85**
89	82,8	4,8	0,3	**10XS 89**
90	80,6	7,1	0,6	**10XS 90/3**
	81,4	9	0,3	**10XS 90/2**
	83	6,5	0,3	**10XS 90/1**
	84,4	4,8	0,3	**10XS 90**
93	87,4	5,3	0,3	**10XS 93**
94	89,5	3,8	0,3	**10XS 94**
95	85,6	9,5	0,6	**10XS 95/4**
	86,4	9	0,3	**10XS 95/3**
	88,8	4,5	0,3	**10XS 95/2**
	89,4	6,2	0,3	**10XS 95**
96	88	6,6	0,3	**10XS 96**
99	92,8	4,8	0,3	**10XS 99**
100	90,6	7,1	0,6	**10XS 100/6**
	90,8	9,6	0,6	**10XS 100/5**
	91,4	9	0,3	**10XS 100/2**
	91,6	8,5	0,3	**10XS 100/4**
	93,8	6,9	0,3	**10XS 100/3**
	94,3	5,3	0,3	**10XS 100**
102	92,6	9,5	0,6	**10XS 102/1**
	95,8	6,5	0,3	**10XS 102**
105	96,4	8,8	0,3	**10XS 105**
106	101	5	0,3	**10XS 106**
110	101,4	9	0,3	**10XS 110**
	104,5	4,5	0,3	**10XS 110/1**

10XS seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**



10XS



External housing

Machining of housings: see pages 48-49

Pressure (MPa)	5	10	20	30	40	50
e max (mm)	0,6	0,4	0,2	0,12	0,08	0,05

10XS seal has been developed to be used as a valid alternative for O-ring, O-ring with one or two back-up rings. **10XS** are used for heavy duty applications to avoid the extrusion and damage which normally occur in the presence of large gaps or high pressure.

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Thanks to its elasticity, it can be installed **very easily** in a short time and without any auxiliaries.

The material used to produce this seal is a polyurethane compound that ensures excellent properties on wear-resistance, **extended service life** and resistance against extrusion.

Operating conditions see page 8

Pressure	≤ 50 MPa
Temperature	-30 to 80°C

Materials see pages 10-19

Polyurethane	PU10, PU09

Assembly see pages 54-59

Replaces O-rings with 1 or 2 back-up rings

Advantages

Good extrusion resistance
Long service life
Safety in comparison with O-rings and back-up rings
No twisting in the groove
Many applications possible

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

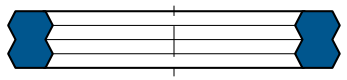
Info:
The static seals **10XS** can replace O-ring and O-ring with one or two back-up rings.
They have however **their own housing dimensions**, which are not necessarily the same as the normalised housing of O-ring with back-up ring.
The elasticity of the **10XS** permits mountings in housings which are slightly different than prescribed. Please contact us in these cases.

For special requirements (fluid, temperature, pressure...) or applications approaching maximum values, please contact us.

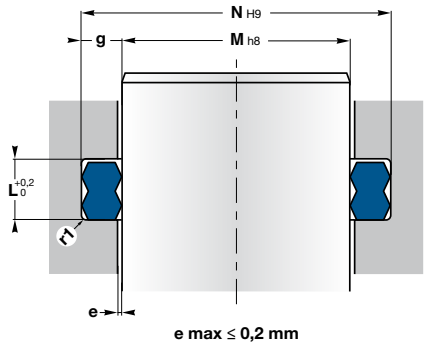
Q	P	L	r1	Reference
111	101,7	8,5	0,6	**10XS 111**
	103	6,6	0,3	**10XS 111/1**
	105	6,5	0,3	**10XS 111/2**
112	106,2	6	0,3	**10XS 112**
113	108,5	3,6	0,3	**10XS 113**
115	105,6	9,5	0,6	**10XS 115/3**
	106,6	8,5	0,3	**10XS 115**
	107	6,5	0,3	**10XS 115/1**
	108	4,6	0,3	**10XS 115/2**
120	110,6	9	0,6	**10XS 120/1**
	111,4	9	0,3	**10XS 120/2**
	113	6	0,3	**10XS 120**
120,25	115,5	4,2	0,3	**10XS 120.25**
124	117,8	4,8	0,3	**10XS 124**
125	115,8	9,6	0,6	**10XS 125**
	116,4	9	0,3	**10XS 125/1**
	116,6	8,5	0,3	**10XS 125/2**
130	120,6	7,9	0,6	**10XS 130**
	121,4	9	0,3	**10XS 130/1**
131	125,2	6	0,3	**10XS 131/1**
135	126,4	9	0,3	**10XS 135/1**
	129,2	6	0,3	**10XS 135**
140	128,4	12,3	0,6	**10XS 140**
	131,6	8,6	0,3	**10XS 140/1**
140,3	134	5,5	0,3	**10XS 140.3**
143	130,8	9,7	0,6	**10XS 143**
145	132,8	9,5	0,6	**10XS 145**
150	138,4	12,3	0,6	**10XS 150**
	140,8	9,6	0,6	**10XS 150/2**
	141,6	8,5	0,3	**10XS 150/1**

Q	P	L	r1	Reference
151	145	6	0,3	**10XS 151**
152	145,8	4,5	0,3	**10XS 152**
155	145,8	9	0,6	**10XS 155/1**
160	148,4	12,3	0,6	**10XS 160**
	150,6	7,9	0,6	**10XS 160/1**
165	156,6	8,5	0,3	**10XS 165/1**
170	158,4	12,3	0,6	**10XS 170**
171	165	6	0,3	**10XS 171**
175	165,8	9,8	0,6	**10XS 175/3**
	166,4	9,1	0,3	**10XS 175/2**
180	168,4	12,3	0,6	**10XS 180**
	171,6	8,5	0,3	**10XS 180/1**
190	178,4	12,3	0,6	**10XS 190**
191	185	6	0,3	**10XS 191**
195	185,8	9,8	0,6	**10XS 195/1**
200	188,4	12,3	0,6	**10XS 200**
	191,6	8,5	0,3	**10XS 200/1**
205	196,4	9	0,3	**10XS 205/1**
210	200,8	9	0,6	**10XS 210**
220	210,4	9	0,6	**10XS 220**
225	213	10,7	0,6	**10XS 225**
241	234	9	0,3	**10XS 241**
250	238,4	12,3	0,6	**10XS 250**
270	258,4	12,3	0,6	**10XS 270**
272	262	9,5	0,6	**10XS 272**
280	268	10,7	0,6	**10XS 280**
303	293	9,5	0,6	**10XS 303**

10XS seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**



10XS



e max ≤ 0,2 mm

Internal housing

Machining of housings: see pages 48-49

Pressure (MPa)	5	10	20	30	40	50
e max (mm)	0,6	0,4	0,2	0,12	0,08	0,05

10XS seal has been developed to be used as a valid alternative for O-ring, O-ring with one or two back-up rings. **10XS** are used for heavy duty applications to avoid the extrusion and damage which normally occur in the presence of large gaps or high pressure.

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Thanks to its elasticity, it can be installed **very easily** in a short time and without any auxiliaries.

The material used to produce this seal is a polyurethane compound that ensures excellent properties on wear-resistance, **extended service life** and resistance against extrusion.

Operating conditions see page 8

Pressure	≤ 50 MPa
Temperature	-30 to 80°C

Materials see pages 10-19

Polyurethane	PU10, PU09

Assembly see pages 54-59

Replaces O-rings with 1 or 2 back-up rings

Advantages

Good extrusion resistance
Long service life
Safety in comparison with O-rings and back-up rings
No twisting in the groove
Many applications possible

Please contact us for applications approaching maximum values.

More information

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Info:
The static seals **10XS** can replace O-ring and O-ring with one or two back-up rings.
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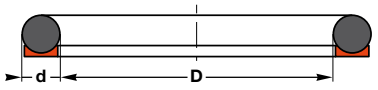
M	N	L	r1	Reference
8	12,5	3,6	0,3	**10XS 13/1**
11	14,1	2,6	0,3	**10XS 14**
12	16,6	3,1	0,3	**10XS 12-INT**
14	18	5,8	0,3	**10XS 14-INT**
	18,5	3,6	0,3	**10XS 19/4**
15	19,5	3,6	0,3	**10XS 20**
16	20	5,8	0,3	**10XS 16-INT**
17	21,5	3,6	0,3	**10XS 22**
20	24	4,8	0,3	**10XS 20-INT**
	24,5	3,6	0,3	**10XS 25**
22	26,8	5,4	0,3	**10XS 22-INT**
24	28,5	3,6	0,3	**10XS 29**
26,6	35	6,5	0,3	**10XS 35/3**
28	31,5	3,6	0,3	**10XS 32/1**
	34,2	4,8	0,3	**10XS 35/2**
30	34,5	3,6	0,3	**10XS 35/1**
	36,2	4,8	0,3	**10XS 37**
31	37,2	4,8	0,3	**10XS 38/2**
33	39,2	4,8	0,3	**10XS 40/3**
35	39,5	3,6	0,3	**10XS 40/2**
36	32	6,2	0,3	**10XS 32-INT**
38	42,8	6,8	0,3	**10XS 38-INT**
41	45,6	4	0,3	**10XS 41-INT**
43	49,2	4,8	0,3	**10XS 50/6**
44	48,5	3,6	0,3	**10XS 49**
46	50,5	3,6	0,3	**10XS 51**
48	54,2	4,8	0,3	**10XS 54**

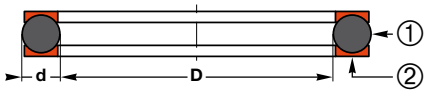
M	N	L	r1	Reference
52	58,2	4,8	0,3	**10XS 60/2**
54	60,2	4,8	0,3	**10XS 61**
56	62,2	4,8	0,3	**10XS 62**
57	63,2	4,8	0,3	**10XS 64**
59	65,2	4,8	0,3	**10XS 65/3**
64	70,2	4,8	0,3	**10XS 70/3**
65	69,6	3,9	0,3	**10XS 65/3-INT**
68	72,5	3,6	0,3	**10XS 73**
70	74,6	3,8	0,3	**10XS 70/2-INT**
72	76,6	4,8	0,3	**10XS 72/1-INT**
73	79,2	4,8	0,3	**10XS 80/7**
80	89,4	7,1	0,3	**10XS 90/3**
82	88,2	4,8	0,3	**10XS 89**
90	99,4	7,1	0,3	**10XS 100/6**
92	98,2	4,8	0,3	**10XS 99**
	101,4	9	0,3	**10XS 102/1**
101,4	110	9	0,3	**10XS 110**
108	112,5	3,6	0,3	**10XS 113**
110	119,4	9	0,6	**10XS 120/1**
117	123,2	4,8	0,3	**10XS 124**
130	142,2	9,7	0,6	**10XS 143**
145	151	6	0,3	**10XS 151**
165	171	6	0,3	**10XS 171**
185	191	6	0,3	**10XS 191**
233	240	9	0,3	**10XS 241**
262	272	9,5	0,6	**10XS 272**

The references **10XS** on this page can be used for internal as well as external grooves.
The references **10XS...-INT** can only be used for applications with internal grooves.

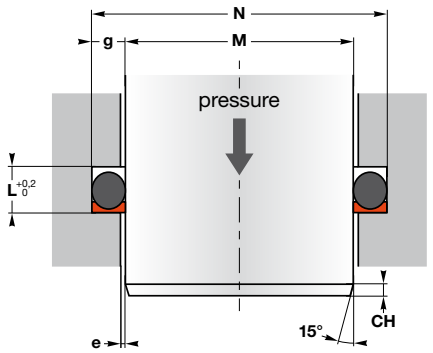
10XS seals with diameters between 10 and 1500 mm can be manufactured within short delivery time.
For prices and availability: **www.sealtech-business.be**



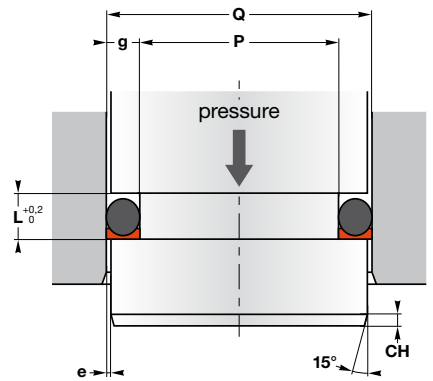
12OBVD AX



12OBVD 2AX



Internal housing



External housing

Machining of housings: see page 81 and table 286

e max: Allowable gap sizes see table of Hunger catalogue.

The **12OBVD AX/2AX** reliably prevents the O-Rings from entering into the gap (gap extrusion) by means of their highly extrusion-resistant back rings.

The **12OBVD 2AX** version is suitable fore pressurization on both sides.

The NBR O-ring, which is firmly fixed to the PUR back ring, compensates for design clearances and tube breathing.

The **12OBVD AX/2AX** is suitable for any standard groove sizes, e.g. in accordance to DIN 3771.

Operating conditions	**see page 8**
Pressure	≤ 50 MPa
Temperature	-30°C to 100°C
Fluids	mineral oils

Materials	**see pages 10 - 19**
O-ring ①	NBR 80 Sh A
Back ring ②	PUR 95 Sh A

Assembly	**see pages 54-59**
In one-piece housings	

Advantages

No gap extrusion. All materials are extremely hard-wearing

Use for standard O-ring grooves - no modification required

Fitting easier compared with O-rings as turning or rolling is avoided

Please contact us for applications approaching maximum values.

More information

On **www.sealtech-business.be**, click first on the reference and then on the material code to obtain the data sheet of the material.

Cord size	Groove depth	Groove width	Lead-in chamfer
d (mm)	**g** (mm)	**L** (mm)	**CH** (mm)
3	2,3	3,9	4
4	3,2	5,2	4
5	4,2	6,2	5
6	5,1	7,2	5
7	6,0	8,7	5
8	6,8	9,8	6

D	d	HUNGER reference	Reference
34	3	034802	12OBVD AX 34 X 3
44	3	034809	12OBVD AX 44 X 3
50	3	034812	12OBVD AX 50 X 3
57	3	034818	12OBVD AX 57 X 3
72	3	034833	12OBVD AX 72 X 3
	4	034834	12OBVD AX 72 X 4
75	4	034837	12OBVD AX 75 X 4
92	4	034853	12OBVD AX 92 X 4
117	4	034878	12OBVD AX 117 X 4
130	5	034892	12OBVD AX 130 X 5
150	5	034908	12OBVD AX 150 X 5
190	5	034931	12OBVD AX 190 X 5
	7	034933	12OBVD AX 190 X 7
240	7	034965	12OBVD AX 240 X 7

19BOX A

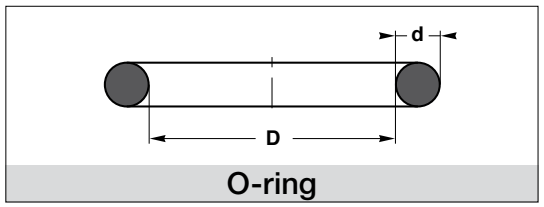
19BOX A: assortment according to norm AS/BS, small dimensions

19BOX A plastic boxes are filled with different products of most common inch dimensions.

Reference	Material
19BOX A	NBR 70 Sh A
19BOX A NBR 90	NBR 90 Sh A
19BOX A FPM 80	FPM 80 Sh A
19BOX A EPDM 70	EPDM 70 Sh A

19BOX A
30 dimensions - 340 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
1,78	2,9 x 1,78	20	**2,62**	13,95 x 2,62	15
	3,68 x 1,78	20		15,54 x 2,62	10
	4,48 x 1,78	20		17,13 x 2,62	10
	5,28 x 1,78	20		18,72 x 2,62	10
	6,07 x 1,78	20		20,29 x 2,62	5
	7,66 x 1,78	20		21,89 x 2,62	5
	9,25 x 1,78	20		23,47 x 2,62	5
	10,82 x 1,78	15			
	12,42 x 1,78	15	**3,53**	18,64 x 3,53	5
				20,22 x 3,53	5
	14 x 1,78	10		21,82 x 3,53	5
	15,6 x 1,78	10			
	17,16 x 1,78	5		23,4 x 3,53	5
				24,99 x 3,53	5
	18,77 x 1,78	5		26,58 x 3,53	5
2,62	9,19 x 2,62	15		28,17 x 3,53	5
	10,78 x 2,62	15			
	12,37 x 2,62	15			



O-ring

19BOX B

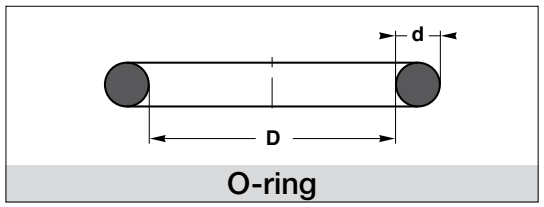
19BOX B: assortment according to norm AS/BS, large dimensions

19BOX B plastic boxes are filled with different products of most common inch dimensions.

Reference	Material
19BOX B	NBR 70 Sh A
19BOX B NBR 90	NBR 90 Sh A
19BOX B FPM 80	FPM 80 Sh A
19BOX B EPDM 70	EPDM 70 Sh A

19BOX B
24 dimensions - 275 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
1,78	20,35 x 1,78	15	**3,53**	34,52 x 3,53	10
	21,95 x 1,78	15		36,1 x 3,53	10
				37,69 x 3,53	10
2,62	25,07 x 2,62	15			
	26,64 x 2,62	15		40,87 x 3,53	10
	28,25 x 2,62	15		44,04 x 3,53	10
				47,22 x 3,53	10
	29,82 x 2,62	15			
	31,42 x 2,62	10		50,4 x 3,53	10
	33 x 2,62	10			
			5,34	37,47 x 5,34	10
	34,59 x 2,62	10		40,65 x 5,34	10
				43,82 x 5,34	10
3,53	29,75 x 3,53	15			
	31,34 x 3,53	15		47 x 5,34	5
	32,92 x 3,53	15		50,16 x 5,34	5



O-ring

19BOX C

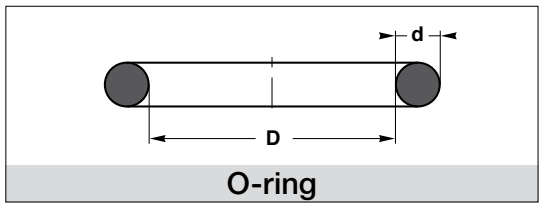
19BOX C plastic boxes are filled with different products of most common metric dimensions.

Reference	Material
19BOX C	NBR 70 Sh A
19BOX C NBR 90	NBR 90 Sh A
19BOX C FPM 80	FPM 80 Sh A
19BOX C EPDM 70	EPDM 70 Sh A

19BOX C: assortment of small metric dimensions

19BOX C
30 dimensions - 425 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
1,5	3 x 1,5	20	**2,5**	5 x 2,5	15
	5 x 1,5	20		7 x 2,5	15
	7 x 1,5	20		10 x 2,5	15
	9 x 1,5	20		12 x 2,5	15
	11 x 1,5	20		15 x 2,5	15
2	6 x 2	20	**3**	10 x 3	10
	8 x 2	20		12 x 3	10
	10 x 2	20		14 x 3	10
	12 x 2	20		16 x 3	10
	14 x 2	20		18 x 3	10
				20,2 x 3	5
2,4	6,3 x 2,4	15			
	8,3 x 2,4	15		22,2 x 3	5
	11,3 x 2,4	15		24,2 x 3	5
				26,2 x 3	5
	13,3 x 2,4	15			
	17,3 x 2,4	15		30,2 x 3	5



O-ring

19BOX D plastic boxes are filled with different products of most common metric dimensions.

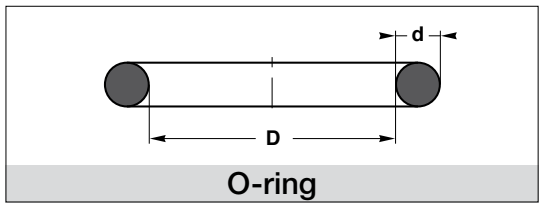
Reference	Material
19BOX D	NBR 70 Sh A
19BOX D NBR 90	NBR 90 Sh A
19BOX D FPM 80	FPM 80 Sh A
19BOX D EPDM 70	EPDM 70 Sh A

19BOX D

19BOX D: assortment of large metric dimensions

19BOX D
24 dimensions - 285 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
2	18 x 2	15	**4**	40 x 4	10
	20 x 2	15		44 x 4	10
	22 x 2	15		48 x 4	10
	25 x 2	15		50 x 4	10
3	28,2 x 3	15	**5**	25 x 5	10
	30,2 x 3	15		30 x 5	10
	32,2 x 3	10		35 x 5	10
	36,2 x 3	10		40 x 5	10
				45 x 5	5
4	25 x 4	15		50 x 5	5
	30 x 4	15			
	32 x 4	15			
	34 x 4	15			
	36 x 4	15			
	38 x 4	10			



O-ring

19BOX G

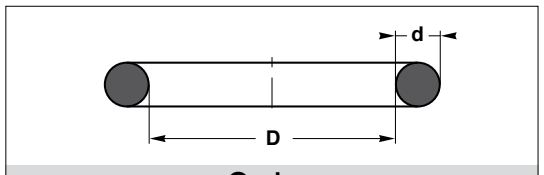
19BOX G: assortment according to norm AS/BS, small dimensions

19BOX G plastic boxes are filled with different products of most common inch dimensions.

Reference	Material
19BOX G	NBR 70 Sh A
19BOX G NBR 90	NBR 90 Sh A
19BOX G FPM 80	FPM 80 Sh A
19BOX G EPDM 70	EPDM 70 Sh A

19BOX G
30 dimensions - 385 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
1,78	2,9 x 1,78	20	**3,53**	18,64 x 3,53	13
	3,68 x 1,78	20		20,22 x 3,53	10
	4,48 x 1,78	20		21,82 x 3,53	10
	5,28 x 1,78	20		23,4 x 3,53	10
	6,07 x 1,78	20		24,99 x 3,53	10
	7,66 x 1,78	20		26,58 x 3,53	10
	9,25 x 1,78	20		28,17 x 3,53	10
				29,75 x 3,53	10
2,62	9,19 x 2,62	13		31,34 x 3,53	10
	10,78 x 2,62	13			
	12,37 x 2,62	13		32,92 x 3,53	10
				34,52 x 3,53	10
	13,95 x 2,62	13		36,1 x 3,53	10
	15,54 x 2,62	13			
	17,13 x 2,62	13		37,69 x 3,53	10
	18,72 x 2,62	13	**5,34**	37,47 x 5,34	7
				40,65 x 5,34	7
				43,82 x 5,34	7



O-ring

19BOX H

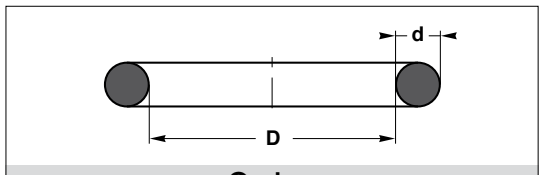
19BOX H: assortment of small metric dimensions

19BOX H plastic boxes are filled with different products of most common metric dimensions.

Reference	Material
19BOX H	NBR 70 Sh A
19BOX H NBR 90	NBR 90 Sh A
19BOX H FPM 80	FPM 80 Sh A
19BOX H EPDM 70	EPDM 70 Sh A

19BOX H
30 dimensions - 404 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
2	3 x 2	18	**3**	19 x 3	12
	4 x 2	18		20 x 3	12
	5 x 2	18		22 x 3	12
	6 x 2	18		24 x 3	12
	7 x 2	17		25 x 3	12
	8 x 2	17		27 x 3	12
	10 x 2	17		28 x 3	12
				30 x 3	12
2,5	10 x 2,5	14		32 x 3	12
	11 x 2,5	14			
	12 x 2,5	14		33 x 3	12
				35 x 3	12
	14 x 2,5	14		36 x 3	12
	16 x 2,5	14			
	17 x 2,5	14		38 x 3	12
	19 x 2,5	14	**4**	38 x 4	9
				42 x 4	9
				45 x 4	9



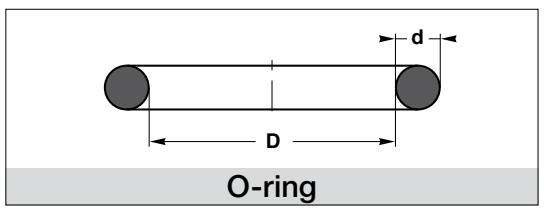
O-ring

19BOX MAX INCH

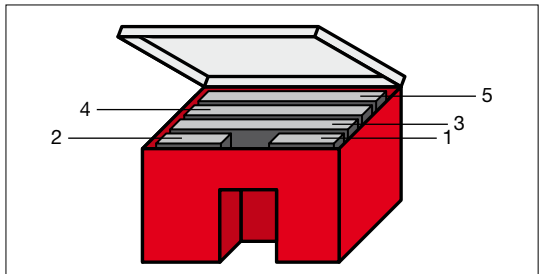
19BOX MAX INCH: assortment according to norm AS/BS, 1415 seals in 5 boxes

19BOX MAX INCH plastic boxes are filled with different products of most common dimensions.

Reference	Material
19BOX MAX INCH NBR90	NBR 90 Sh A
19BOX MAX INCH NBR70	NBR 70 Sh A



O-ring



19BOX MAX INCH

Box 1: flanges O-rings
6 dimensions - 45 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
3,53	18,64 x 3,53	10	**3,53**	37,69 x 3,53	5
	24,99 x 3,53	10		47,22 x 3,53	5
	32,92 x 3,53	10		56,74 x 3,53	5

Box 2: O-rings for BOSS connectors
8 dimensions - 155 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
1,63	7,65 x 1,63	15	**2,21**	16,36 x 2,21	25
1,83	8,92 x 1,83	25	**2,46**	19,18 x 2,46	25
	10,52 x 1,83	15	**2,95**	23,47 x 2,95	15
1,98	11,89 x 1,98	25		29,74 x 2,95	10

Box 3: 1,78 mm O-rings
24 dimensions - 495 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
1,78	2,9 x 1,78	25	**1,78**	18,77 x 1,78	25
	3,68 x 1,78	25		20,35 x 1,78	20
	4,47 x 1,78	25		21,95 x 1,78	20
	5,28 x 1,78	25		23,52 x 1,78	20
	6,07 x 1,78	25		25,12 x 1,78	15
	7,65 x 1,78	25		26,7 x 1,78	15
	9,25 x 1,78	25		28,3 x 1,78	15
	10,82 x 1,78	25		29,87 x 1,78	15
	12,42 x 1,78	25		31,47 x 1,78	15
	14 x 1,78	25		34,65 x 1,78	15
	15,6 x 1,78	25		37,82 x 1,78	10
	17,17 x 1,78	25		41 x 1,78	10

Box 4: 2,62 mm O-rings
24 dimensions - 440 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
2,62	7,59 x 2,62	25	**2,62**	26,64 x 2,62	15
	9,19 x 2,62	25		28,24 x 2,62	15
	10,77 x 2,62	25		29,82 x 2,62	15
	12,37 x 2,62	25		31,42 x 2,62	15
	13,94 x 2,62	25		32,99 x 2,62	15
	15,54 x 2,62	25		34,59 x 2,62	15
	17,12 x 2,62	25		36,17 x 2,62	15
	18,72 x 2,62	25		37,77 x 2,62	10
	20,3 x 2,62	25		39,34 x 2,62	10
	21,89 x 2,62	25		42,52 x 2,62	10
	23,47 x 2,62	20		45,69 x 2,62	10
	25,07 x 2,62	20		48,9 x 2,62	5

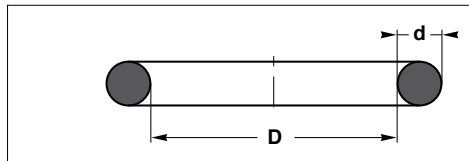
Box 5: 3,53 mm O-rings
19 dimensions - 280 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
3,53	18,64 x 3,53	20	**3,53**	37,69 x 3,53	15
	20,22 x 3,53	20		40,87 x 3,53	10
	21,82 x 3,53	20		44,04 x 3,53	10
	23,39 x 3,53	20		50,39 x 3,53	10
	24,99 x 3,53	20		56,74 x 3,53	10
	26,57 x 3,53	15		69,44 x 3,53	10
	28,17 x 3,53	15		82,14 x 3,53	10
	29,74 x 3,53	15			
	31,34 x 3,53	15			
	32,92 x 3,53	15			
	34,52 x 3,53	15			
	36,09 x 3,53	15			

19BOX MAX MM NBR90

19BOX MAX MM plastic boxes are filled with different products of most common dimensions.

Reference	Material
19BOX MAX MM NBR90	NBR 90 Sh A



O-ring

19BOX MAX MM: assortment of metric dimensions, 1345 seals in 5 boxes

Box 1: 1,5 mm O-rings
6 dimensions - 60 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
1,5	20 x 1,5	10	**1,5**	26 x 1,5	10
	22 x 1,5	10		27 x 1,5	10
	24 x 1,5	10		30 x 1,5	10

Box 2: 3 mm O-rings
8 dimensions - 80 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
3	10 x 3	10	**3**	18 x 3	10
	12 x 3	10		19 x 3	10
	14 x 3	10		20 x 3	10
	16 x 3	10		23 x 3	10

Box 3: 2 mm O-rings
24 dimensions - 485 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
2	3 x 2	25	**2**	20 x 2	20
	4 x 2	25		22 x 2	20
	5 x 2	25		24 x 2	20
	6 x 2	25		25 x 2	15
	8 x 2	25		27 x 2	15
	10 x 2	25		28 x 2	15
	11 x 2	25		30 x 2	15
	13 x 2	25		32 x 2	15
	14 x 2	25		33 x 2	15
	16 x 2	25		35 x 2	15
	17 x 2	25		38 x 2	10
	19 x 2	25		41 x 2	10

Box 4: 2,5 mm O-rings
24 dimensions - 440 pieces

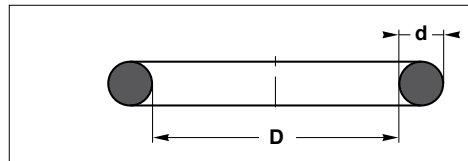
Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
2,5	8 x 2,5	25	**2,5**	27 x 2,5	15
	10 x 2,5	25		28 x 2,5	15
	11 x 2,5	25		30 x 2,5	15
	13 x 2,5	25		32 x 2,5	15
	14 x 2,5	25		33 x 2,5	15
	16 x 2,5	25		35 x 2,5	15
	18 x 2,5	25		36 x 2,5	15
	19 x 2,5	25		38 x 2,5	10
	21 x 2,5	25		40 x 2,5	10
	22 x 2,5	25		43 x 2,5	10
	24 x 2,5	20		46 x 2,5	10
	25 x 2,5	20		49 x 2,5	5

Box 5: 3 mm O-rings
19 dimensions - 280 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
3	19 x 3	20	**3**	38 x 3	15
	21 x 3	20		41 x 3	10
	22 x 3	20		44 x 3	10
	24 x 3	20		50 x 3	10
	25 x 3	20		57 x 3	10
	27 x 3	15		70 x 3	10
	28 x 3	15		82 x 3	10
	30 x 3	15			
	32 x 3	15			
	33 x 3	15			
	35 x 3	15			
	36 x 3	15			

19BOX MAX MM plastic boxes are filled with different products of most common dimensions.

Reference	Material
19BOX MAX MM NBR70	NBR 70 Sh A



O-ring

19BOX MAX MM NBR70

19BOX MAX MM: assortment of metric dimensions, 1345 seals in 5 boxes

Box 1: 1 mm O-rings
8 dimensions - 80 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
1	10 x 1	10	**1**	18 x 1	10
	12 x 1	10		20 x 1	10
	14 x 1	10		23 x 1	10
	16 x 1	10		24 x 1	10

Box 2: 1,5 mm O-rings
6 dimensions - 60 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
1,5	20 x 1,5	10	**1,5**	26 x 1,5	10
	22 x 1,5	10		28 x 1,5	10
	24 x 1,5	10		30 x 1,5	10

Box 3: 2 mm O-rings
24 dimensions - 485 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
2	3 x 2	25	**2**	20 x 2	20
	4 x 2	25		22 x 2	20
	5 x 2	25		24 x 2	20
	6 x 2	25		25 x 2	15
	8 x 2	25		27 x 2	15
	10 x 2	25		28 x 2	15
	11 x 2	25		30 x 2	15
	13 x 2	25		32 x 2	15
	14 x 2	25		33 x 2	15
	16 x 2	25		35 x 2	15
	17 x 2	25		38 x 2	10
	19 x 2	25		41 x 2	10

Box 4: 2,5 mm O-rings
24 dimensions - 440 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
2,5	8 x 2,5	25	**2,5**	27 x 2,5	15
	10 x 2,5	25		28 x 2,5	15
	11 x 2,5	25		30 x 2,5	15
	13 x 2,5	25		32 x 2,5	15
	14 x 2,5	25		33 x 2,5	15
	16 x 2,5	25		35 x 2,5	15
	18 x 2,5	25		36 x 2,5	15
	19 x 2,5	25		38 x 2,5	10
	21 x 2,5	25		40 x 2,5	10
	22 x 2,5	25		43 x 2,5	10
	24 x 2,5	20		46 x 2,5	10
	25 x 2,5	20		49 x 2,5	5

Box 5: 3 mm O-rings
19 dimensions - 280 pieces

Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
3	19 x 3	20	**3**	38 x 3	15
	21 x 3	20		41 x 3	10
	22 x 3	20		44 x 3	10
	24 x 3	20		50 x 3	10
	25 x 3	20		57 x 3	10
	27 x 3	15		70 x 3	10
	28 x 3	15		82 x 3	10
	30 x 3	15			
	32 x 3	15			
	33 x 3	15			
	35 x 3	15			
	36 x 3	15			

19BOX ORFS

O-ring boxes

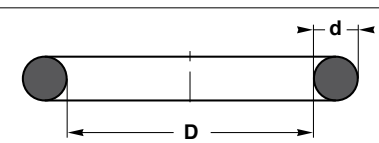
19BOX ORFS

19BOX ORFS plastic boxes are filled with O-rings for ORFS connectors.

Reference	Material
19BOX ORFS	NBR 90 Sh A

19BOX ORFS: O-rings assortment for ORFS connectors

19BOX ORFS 8 dimensions - 155 pieces					
Cross section	O-ring D x d	Qty	Cross section	O-ring D x d	Qty
1,78	7,65 x 1,78	25	**1,78**	29,87 x 1,78	10
	9,25 x 1,78	25		37,82 x 1,78	10
	12,42 x 1,78	25			
	15,6 x 1,78	25			
	18,77 x 1,78	20			
	23,52 x 1,78	15			



O-ring 03...

SEALTECH
Hydraulic Seals Technology

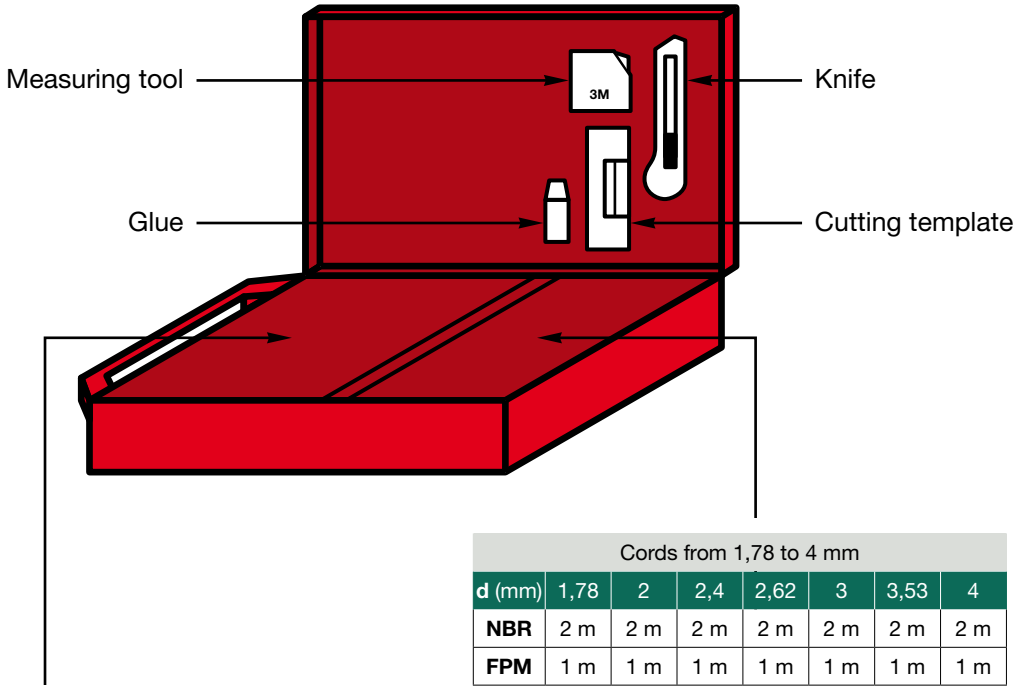
19BOX CORD

19BOX CORD plastic boxes allow to manufacture by bonding a big assortment of different O-rings.

Reference	Material
19BOX CORD	NBR 70 Sh A
19BOX CORD NBR 90	NBR 90 Sh A
19BOX CORD FPM 80	FPM 80 Sh A

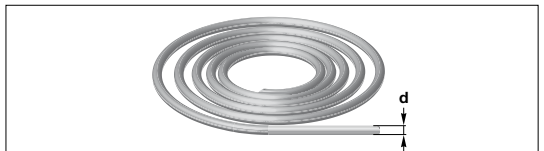
19BOX CORD

19BOX CORD: assortment with cords and tools



Cords from 1,78 to 4 mm							
d (mm)	1,78	2	2,4	2,62	3	3,53	4
NBR	2 m	2 m	2 m	2 m	2 m	2 m	2 m
FPM	1 m	1 m	1 m	1 m	1 m	1 m	1 m

Cords from 4,5 to 8 mm							
d (mm)	4,5	5	5,34	5,7	6	7	8
NBR	2 m	2 m	2 m	2 m	2 m	2 m	2 m
FPM	1 m	1 m	1 m	1 m	1 m	1 m	1 m



09OR

19BOX D-RING

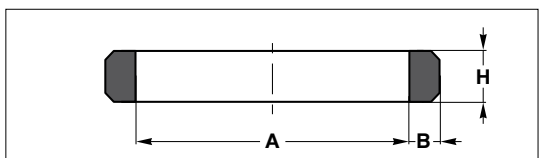
19BOX D-RING: D-rings assortment

19BOX D-RING plastic boxes are filled with the different seals for the CAT® flanges.

Reference	Material
19BOX D-RING	NBR 90 Sh A

19BOX D-RING
9 dimensions - 95 pieces

A	B	H	Reference	Qty
18,9	3,4	4,95	**08D-RING 1P3700**	25
25,25	3,4	4,95	**08D-RING 1P3702**	10
31,6	3,4	4,95	**08D-RING 1P3703**	10
37,95	3,4	4,95	**08D-RING 1P3704**	10
44,37	3,4	4,95	**08D-RING 1P3705**	10
50,72	3,4	4,95	**08D-RING 1P3706**	10
54,2	3,4	4,95	**08D-RING 1P3707**	10
57,07	3,4	4,95	**08D-RING 1P3708**	5
63,42	3,4	4,95	**08D-RING 1P3709**	5



08D-RING

SEALTECH
Hydraulic Seals Technology

19BOX FS

19BOX FS: seals assortment FS
for SAE and ISO flanges

19BOX FS plastic boxes are filled with the different seals for the SAE and ISO flanges.

Reference	Material
19BOX FS	PU

19BOX FS
6 dimensions - 36 pieces

SAE	Reference	Quantity
1/2”	**08SFS 08**	6
3/4”	**08SFS 12**	6
1”	**08SFS 16**	6
1 1/4”	**08SFS 20**	6
1 1/2”	**08SFS 24**	6
2”	**08SFS 32**	6

08FS

19BOX KS NBR

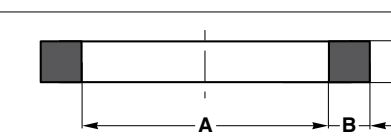
19BOX KS NBR: NBR assortment

19BOX KS NBR plastic boxes are filled with the different square rings for valves.

Reference	Material
19BOX KS NBR	NBR 90 Sh A

19BOX KS NBR
8 dimensions - 250 pieces

A	B	H	Reference	Quantity
9,81	1,5	1,78	**08KS 09**	40
10	2	2	**08KS 10**	30
11,18	1,6	1,78	**08KS 11**	20
13	1,6	2	**08KS 13**	50
19	3	3	**08KS 19**	30
22,53	2,3	2,62	**08KS 22**	40
27,8	2,6	3	**08KS 27**	20
42,5	3	3	**08KS 42**	20



08KS

Example of application: directional valves

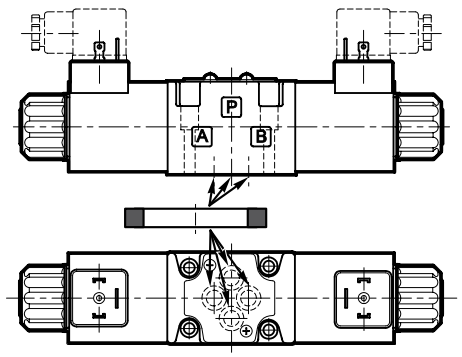
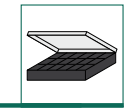


Table 302
Directional valves set of seals

Valve size	Description of the set of seals
NG 6	4 pcs **08KS 09**
NG 10	5 pcs **08KS 13**
NG 16	4 pcs **08KS 22** + 3 pcs **08KS 10**
NG 25	4 pcs **08KS 27** + 3 pcs **08KS 19**
NG 32	4 pcs **08KS 42** + 3 pcs **08KS 19**



19BOX KS FPM plastic boxes are filled with the different square rings for valves.

Reference	Material
19BOX KS FPM	FPM 90 Sh A

19BOX KS FPM

19BOX KS FPM: FPM assortment

Example of application: directional valves

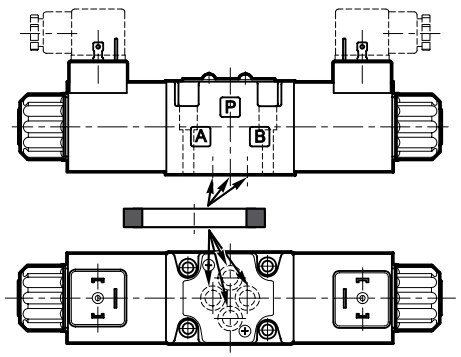
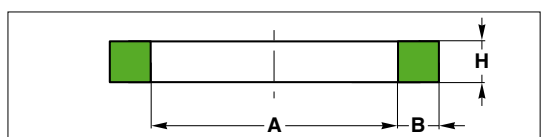


Table 303
Directional valves set of seals

Valve size	Description of the set of seals
NG 6	4 pcs **08KS 09 FPM**
NG 10	5 pcs **08KS 13 FPM**
NG 16	4 pcs **08KS 22 FPM** + 3 pcs **08KS 10 FPM**
NG 25	4 pcs **08KS 27 FPM** + 3 pcs **08KS 19 FPM**
NG 32	4 pcs **08KS 42 FPM** + 3 pcs **08KS 19 FPM**

19BOX KS FPM
8 dimensions - 250 pieces

A	B	H	Reference	Quantity
9,81	1,5	1,78	**08KS 09 FPM**	40
10	2	2	**08KS 10 FPM**	30
11,18	1,6	1,78	**08KS 11 FPM**	20
13	1,6	2	**08KS 13 FPM**	50
19	3	3	**08KS 19 FPM**	30
22,53	2,3	2,62	**08KS 22 FPM**	40
27,8	2,6	3	**08KS 27 FPM**	20
42,5	3	3	**08KS 42 FPM**	20



08KS...FPM

19BOX BS MM
19BOX BS INCH

19BOX BS... plastic boxes are filled with the different bonded seals for connectors.

Reference	Material
19BOX BS MM	NBR 90 Sh A
19BOX BS INCH	NBR 90 Sh A

19BOX BS MM: BS metric assortment
19BOX BS INCH: BS inch assortment

19BOX BS MM
7 dimensions - 125 pieces

Metric

Inner Ø	Reference	Quantity
M8	**08BS 9213**	25
M10	**08BS 9217**	25
M12	**08BS 9222**	15
M16	**08BS 9229**	15
M18	**08BS 9232**	25
M22	**08BS 9236**	10
M24	**08BS 9238**	10

19BOX BS INCH
7 dimensions - 114 pieces

Inch

Inner Ø	Reference	Quantity
1/8" BSP	**08BS 920**	25
1/4" BSP	**08BS 921**	25
3/8" BSP	**08BS 923**	15
1/2" BSP	**08BS 925**	15
5/8" BSP	**08BS 926**	15
3/4" BSP	**08BS 927**	15
1" BSP	**08BS 930**	4

08BS9

19BOX COR MM
19BOX COR INCH

19BOX COR... plastic boxes are filled with the different copper washers for connectors.

Reference	Material
19BOX COR MM	Copper
19BOX COR INCH	Copper

19BOX COR MM: COR mm assortment
19BOX COR INCH: COR inch assortment

19BOX COR MM
7 dimensions - 115 pieces

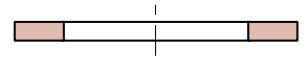
Metric

Inner Ø	Reference	Quantity
M8	**08COR 08/1**	20
M10	**08COR 10/1**	20
M12	**08COR 12**	20
M14	**08COR 14**	20
M16	**08COR 16/1**	15
M18	**08COR 18/1**	10
M22	**08COR 22**	10

19BOX COR INCH
7 dimensions - 130 pieces

Inch

Inner Ø	Reference	Quantity
1/8" BSP	**08COR 10/1**	25
1/4" BSP	**08COR 13**	25
3/8" BSP	**08COR 17/1**	25
1/2" BSP	**08COR 21**	20
5/8" BSP	**08COR 23**	15
3/4" BSP	**08COR 27**	10
1" BSP	**08COR 33**	10



08COR