



Piston Seals Guide



#SealingExcellence



Important Information

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Introduction to Piston Seals

Piston Seals

Piston Seals plays a vital role in a Cylinder Sealing System as its performance has a major say in developing the force within the system. Even a slight leakage across the Piston Seal adversely affects the performance of the overall Cylinder.

Even though the purpose of a Piston Seal is the same across any Linear Actuators, still a wide variety of Seal profiles are available, so as to meet the exact requirements of the Cylinder, considering the Criticality, Cost, Expected Life, Power Consumption, Design limitations etc. Normally these Seals are categorized into Light Duty, Medium Duty and Heavy Duty considering the severity of the application. The Light Duty Seals normally face system pressure upto about 210 bar, whereas the Medium Duty Cylinders could see pressures upto about 400bar. Most of the applications falls within this pressure ranges, but as technology improves, the demand for limiting or reducing the size and weight of the Actuators also gains momentum, which means that for the same force generation, a higher pressure need to be applied. To address this requirement, the new generation seals or rather a high end Piston Seal group is in place, which can withstand pressures upto 800bar or sometimes even higher than this.

One of the main limitations to apply higher pressures in a Cylinder is the capability of the sealing material to resist extrusion. This is achieved either by using innovative materials or by using innovative designs of the seals. Of course, the other way around is to reduce the extrusion gaps or rather adjusts the fit between the Cylinder and Piston, which is a costly proposition.

Triada[®] offers a comprehensive range of Piston Seals, suiting to each and every application that one may encounter. It is needless to mention that our Customers have a 24 x 7 access to the Application Engineering Team at Triada[®], who shall propose the right Sealing System for their application. While we have listed mostly the standard profiles, it is also worth mentioning that Triada[®] can design and develop Custom made Seals, for any non-standard hardware size also or for that matter to meet any other requirements that doesn't fall under the standard or normal characteristics of the Seals.

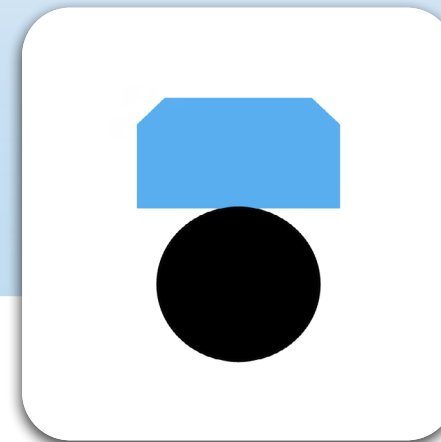
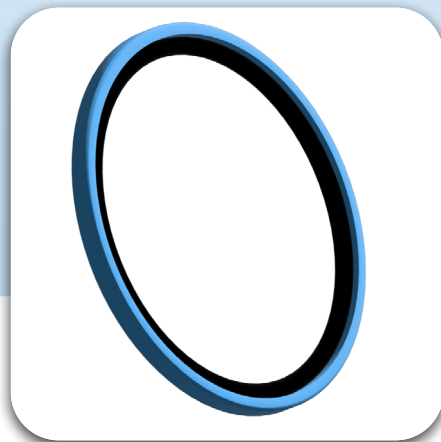
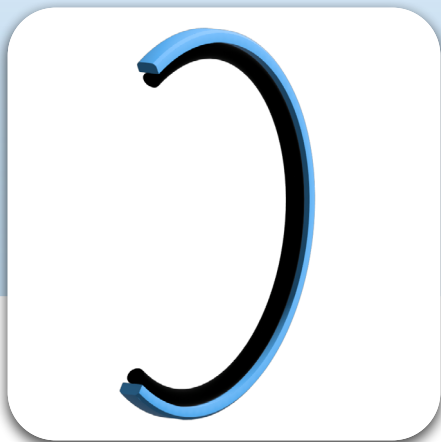


Piston Seals

PTD









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Description

The TRIGLIDE[®] is a bidirectional seal and composed of two elements. The dynamic seal is a ring in TRIALON[®] (filled PTFE) while the static seal is an O-Ring in TRIAFLEX[®] (NBR) also acting as energizer. Depending on the application, media, cycle speed etc., the PTFE compound is selected and the O-Ring compound is selected considering the media compatibility, temperature etc.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø8.00 – Ø2700.00 (Larger diameters on request)
 Standard material	TRIALON [®] T415 (Bronze Filled PTFE) with Energiser in TRIAFLEX [®] T571 (NBR 70 Shores) (Other Compounds available, so as to suit the Application Conditions).
 Temperature(°C)	-40°C to 200°C (Based on Elastomer Material).
 Speed	≤ 15.0 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air etc, depending on Seal Compounds selected.
 Pressure	≤ 800 bar

Material Details

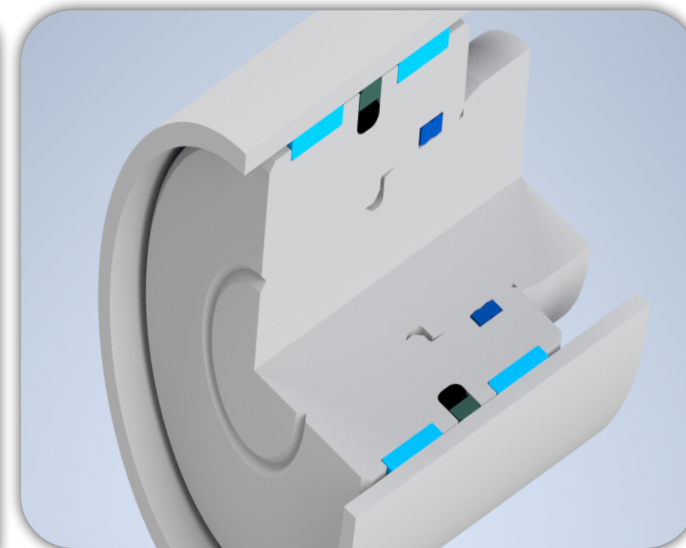
Seal Material	Seal Material Code	O-Ring Material	O-Ring Material / Code
TRIALON® Bronze Filled PTFE	T415	TRIAFLEX® NBR 70	N (T571)
TRIALON® Carbon Filled PTFE	T417	TRIAFLEX® FKM 75	F (T675)
		TRIAFLEX® EPDM 70	E (T771)
		TRIAFLEX® HNBR 70	H (T531)

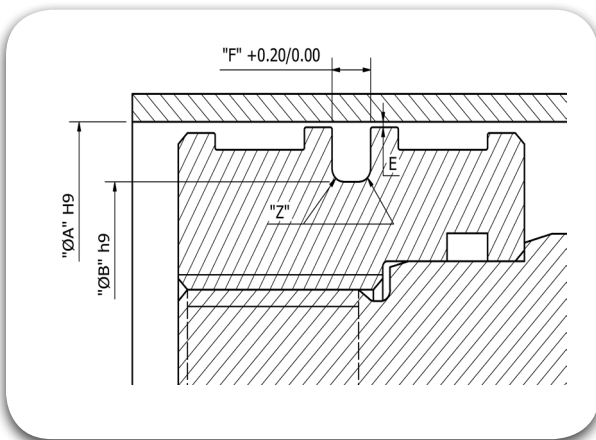
Nomenclature

Part No	PTD	1000	0845	063	T415	N
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	O-Ring Material Code	

Groove Details

Bore Diameter "A" H9			Radial Clearance "E" max		Radius "Z"	O-Ring Cross Section
Heavy duty Series	Standard Series	Light Duty Series	0-200 bar	200-400 bar		
-	8.00 – 14.90	15.00 – 39.90	0.30 - 0.20	0.20 - 0.15	0.30 - 0.50	1.78
-	15.00 – 39.90	40.00 – 79.90	0.40 - 0.25	0.25 - 0.15	0.50 - 0.80	2.62
15.00 – 39.90	40.00 – 79.90	80.00 – 132.90	0.40 - 0.25	0.25 - 0.15	0.80 - 1.20	3.53
40.00 – 79.90	80.00 – 132.90	133.00 – 329.90	0.50 - 0.30	0.30 - 0.20	1.20 - 1.50	5.33
80.00 – 132.90	133.00 – 329.90	330.00 – 669.90	0.50 - 0.30	0.30 - 0.20	1.50 - 2.00	7.00
133.00 – 329.90	330.00 – 669.90	670.00 – 999.90	0.60 - 0.35	0.35 - 0.25	1.50 - 2.00	7.00
330.00 – 669.90	670.00 – 999.90	-	0.70 - 0.40	0.40 - 0.30	2.00 - 3.00	8.40





8.00

Part No PTD 0080 0031 022

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
8.00 x 3.10 x 2.20

O-Ring Size \varnothing 2.90 x \varnothing 1.78

10.00

Part No PTD 0100 0051 022

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
10.00 x 5.10 x 2.20

O-Ring Size \varnothing 5.28 x \varnothing 1.78

12.00

Part No PTD 0120 0071 022

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
12.00 x 7.10 x 2.20

O-Ring Size \varnothing 7.65 x \varnothing 1.78

15.00

Part No PTD 0150 0075 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
15.00 x 7.50 x 3.20

O-Ring Size \varnothing 7.59 x \varnothing 2.62

16.00

Part No PTD 0160 0085 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
16.00 x 8.50 x 3.20

O-Ring Size \varnothing 7.59 x \varnothing 2.62

18.00

Part No PTD 0180 0105 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
18.00 x 10.50 x 3.20

O-Ring Size \varnothing 10.77 x \varnothing 2.62

20.00

Part No PTD 0200 0125 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
20.00 x 12.50 x 3.20

O-Ring Size \varnothing 12.37 x \varnothing 2.62

22.00

Part No PTD 0220 0145 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
22.00 x 14.50 x 3.20

O-Ring Size \varnothing 13.94 x \varnothing 2.62

24.00

Part No PTD 0240 0165 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
24.00 x 16.50 x 3.20

O-Ring Size \varnothing 15.54 x \varnothing 2.62

25.00

Part No PTD 0250 0175 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
25.00 x 17.50 x 3.20

O-Ring Size \varnothing 17.12 x \varnothing 2.62

25.40

Part No PTD 0254 0179 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
25.40 x 17.90 x 3.20

O-Ring Size \varnothing 17.12 x \varnothing 2.62

28.00

Part No PTD 0280 0205 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
28.00 x 20.50 x 3.20

O-Ring Size \varnothing 20.29 x \varnothing 2.62

28.50

Part No PTD 0285 0210 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
28.50 x 21.00 x 3.20

O-Ring Size \varnothing 20.29 x \varnothing 2.62

30.00

Part No PTD 0300 0225 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
30.00 x 22.50 x 3.20

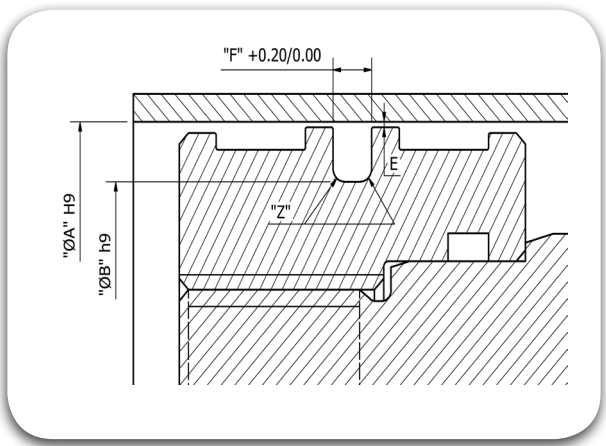
O-Ring Size \varnothing 21.89 x \varnothing 2.62

31.70

Part No PTD 0317 0242 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
31.70 x 24.20 x 3.20

O-Ring Size \varnothing 23.47 x \varnothing 2.62



32.00

Part No PTD 0320 0245 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
32.00 x 24.50 x 3.20

O-Ring Size \varnothing 23.47 x \varnothing 2.62

35.00

Part No PTD 0350 0275 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
35.00 x 27.50 x 3.20

O-Ring Size \varnothing 26.64 x \varnothing 2.26

36.00

Part No PTD 0360 0285 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
36.00 x 28.50 x 3.20

O-Ring Size \varnothing 28.24 x \varnothing 2.62

38.00

Part No PTD 0380 0305 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
38.00 x 30.50 x 3.20

O-Ring Size \varnothing 29.82 x \varnothing 2.62

39.00

Part No PTD 0390 0315 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
39.00 x 31.50 x 3.20

O-Ring Size \varnothing 31.42 x \varnothing 2.62

40.00

Part No PTD 0400 0290 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
40.00 x 29.00 x 4.20

O-Ring Size \varnothing 28.17 x \varnothing 3.53

42.00

Part No PTD 0420 0310 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
42.00 x 31.00 x 4.20

O-Ring Size \varnothing 29.74 x \varnothing 3.53

44.50

Part No PTD 0445 0335 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
44.50 x 33.50 x 4.20

O-Ring Size \varnothing 32.92 x \varnothing 3.53

45.00

Part No PTD 0450 0340 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
45.00 x 34.00 x 4.20

O-Ring Size \varnothing 32.92 x \varnothing 3.53

48.00

Part No PTD 0480 0370 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
48.00 x 37.00 x 4.20

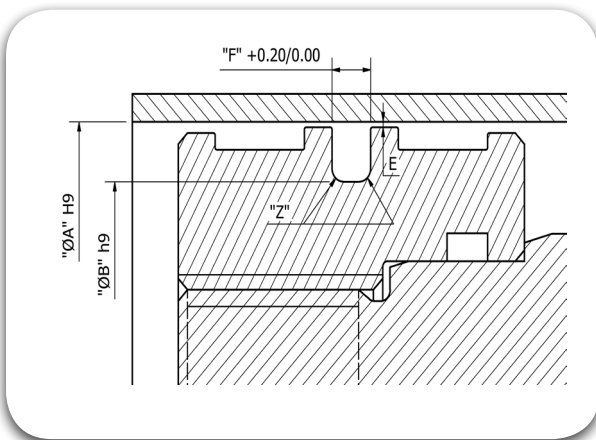
O-Ring Size \varnothing 36.09 x \varnothing 3.53

50.00

Part No PTD 0500 0390 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 39.00 x 4.20

O-Ring Size \varnothing 37.69 x \varnothing 3.53



50.80

Part No	PTD 0508 0398 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	50.80	39.80	4.20
O-Ring Size	\varnothing 37.69	\times \varnothing 3.53	

52.00

Part No	PTD 0520 0410 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	52.00	41.00	4.20
O-Ring Size	\varnothing 40.87	\times \varnothing 3.53	

55.00

Part No	PTD 0550 0440 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	55.00	44.00	4.20
O-Ring Size	\varnothing 44.04	\times \varnothing 3.53	

57.10

Part No	PTD 0571 0461 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	57.10	46.10	4.20
O-Ring Size	\varnothing 44.04	\times \varnothing 3.53	

60.00

Part No	PTD 0600 0490 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	60.00	49.00	4.20
O-Ring Size	\varnothing 47.22	\times \varnothing 3.53	

63.00

Part No	PTD 0630 0520 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	63.00	52.00	4.20
O-Ring Size	\varnothing 50.39	\times \varnothing 3.53	

63.50

Part No	PTD 0635 0525 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	63.50	52.50	4.20
O-Ring Size	\varnothing 50.39	\times \varnothing 3.53	

64.00

Part No	PTD 0640 0530 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	64.00	53.00	4.20
O-Ring Size	\varnothing 50.39	\times \varnothing 3.53	

65.00

Part No	PTD 0650 0540 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	65.00	54.00	4.20
O-Ring Size	\varnothing 53.57	\times \varnothing 3.53	

69.80

Part No	PTD 0698 0588 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	69.80	58.80	4.20
O-Ring Size	\varnothing 56.74	\times \varnothing 3.53	

70.00

Part No	PTD 0700 0590 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	70.00	59.00	4.20
O-Ring Size	\varnothing 56.74	\times \varnothing 3.53	

70.00

Part No	PTD 0700 0545 063		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	70.00	54.50	6.30
O-Ring Size	\varnothing 53.34	\times \varnothing 5.33	

75.00

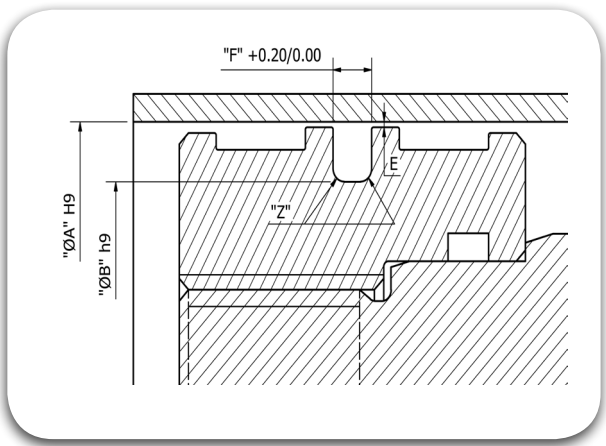
Part No	PTD 0750 0640 042		
Groove Dimension	$\varnothing A$	$\varnothing B$	F
	75.00	64.00	4.20
O-Ring Size	\varnothing 63.09	\times \varnothing 3.53	

76.20

Part No	PTD 0762 0652 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	76.20 x 65.20 x 4.20		
O-Ring Size	\varnothing x \varnothing/S		
	63.09 x 3.53		

80.00

Part No	PTD 0800 0645 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	80.00 x 64.50 x 6.30		
O-Ring Size	\varnothing x \varnothing/S		
	62.87 x 5.33		



80.00

Part No	PTD 0800 0590 081		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	80.00 x 59.00 x 8.10		
O-Ring Size	\varnothing x \varnothing/S		
	58.00 x 7.00		

82.50

Part No	PTD 0825 0670 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	82.50 x 67.00 x 6.30		
O-Ring Size	\varnothing x \varnothing/S		
	66.04 x 5.33		

85.00

Part No	PTD 0850 0695 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	85.00 x 69.50 x 6.30		
O-Ring Size	\varnothing x \varnothing/S		
	69.22 x 5.33		

85.00

Part No	PTD 0850 0640 081		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	85.00 x 64.00 x 8.10		
O-Ring Size	\varnothing x \varnothing/S		
	64.00 x 7.00		

89.00

Part No	PTD 0890 0735 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	89.00 x 73.50 x 6.30		
O-Ring Size	\varnothing x \varnothing/S		
	72.39 x 5.33		

90.00

Part No	PTD 0900 0745 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	90.00 x 74.50 x 6.30		
O-Ring Size	\varnothing x \varnothing/S		
	72.39 x 5.33		

90.00

Part No	PTD 0900 0690 081		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	90.00 x 69.00 x 8.10		
O-Ring Size	\varnothing x \varnothing/S		
	68.00 x 7.00		

95.00

Part No	PTD 0950 0795 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	95.00 x 79.50 x 6.30		
O-Ring Size	\varnothing x \varnothing/S		
	78.74 x 5.33		

95.00

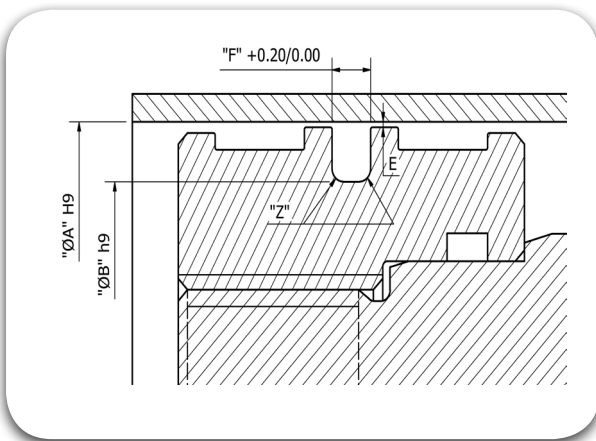
Part No	PTD 0950 0740 081		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	95.00 x 74.00 x 8.10		
O-Ring Size	\varnothing x \varnothing/S		
	73.00 x 7.00		

100.00

Part No	PTD 1000 0845 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	100.00 x 84.50 x 6.30		
O-Ring Size	\varnothing x \varnothing/S		
	81.92 x 5.33		

100.00

Part No	PTD 1000 0790 081		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	100.00 x 79.00 x 8.10		
O-Ring Size	\varnothing x \varnothing/S		
	79.00 x 7.00		



101.60

Part No

PTD 1016 0861 063

Groove Dimension

ØA x ØB x F
101.60 x 86.10 x 6.30

O-Ring Size

Ø 85.09 x CS 5.33

105.00

Part No

PTD 1050 0895 063

Groove Dimension

ØA x ØB x F
105.00 x 89.50 x 6.30

O-Ring Size

Ø 88.27 x CS 5.33

105.00

Part No

PTD 1050 0840 081

Groove Dimension

ØA x ØB x F
105.00 x 84.00 x 8.10

O-Ring Size

Ø 83.00 x CS 7.00

110.00

Part No

PTD 1100 0945 063

Groove Dimension

ØA x ØB x F
110.00 x 94.50 x 6.30

O-Ring Size

Ø 94.62 x CS 5.33

110.00

Part No

PTD 1100 0890 081

Groove Dimension

ØA x ØB x F
110.00 x 89.00 x 8.10

O-Ring Size

Ø 89.00 x CS 7.00

114.30

Part No

PTD 1143 0988 063

Groove Dimension

ØA x ØB x F
114.30 x 98.80 x 6.30

O-Ring Size

Ø 97.79 x CS 5.33

115.00

Part No

PTD 1150 0995 063

Groove Dimension

ØA x ØB x F
115.00 x 99.50 x 6.30

O-Ring Size

Ø 97.79 x CS 5.33

115.00

Part No

PTD 1150 0940 081

Groove Dimension

ØA x ØB x F
115.00 x 94.00 x 8.10

O-Ring Size

Ø 94.00 x CS 7.00

120.00

Part No

PTD 1200 1045 063

Groove Dimension

ØA x ØB x F
120.00 x 104.50 x 6.30

O-Ring Size

Ø 104.14 x CS 5.33

120.00

Part No

PTD 1200 0990 081

Groove Dimension

ØA x ØB x F
120.00 x 99.00 x 8.10

O-Ring Size

Ø 99.00 x CS 7.00

125.00

Part No

PTD 1250 1095 063

Groove Dimension

ØA x ØB x F
125.00 x 109.50 x 6.30

O-Ring Size

Ø 107.32 x CS 5.33

125.00

Part No

PTD 1250 1040 081

Groove Dimension

ØA x ØB x F
125.00 x 104.00 x 8.10

O-Ring Size

Ø 101.00 x CS 7.00

127.00

Part No

PTD 1270 1115 063

Groove Dimension

ØA x ØB x F
127.00 x 111.50 x 6.30

O-Ring Size

Ø 110.49 x CS 5.33

130.00

Part No

PTD 1300 1145 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 114.50 x 6.30

O-Ring Size

\varnothing 113.67 x \varnothing 5.33

130.00

Part No

PTD 1300 1090 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 109.00 x 8.10

O-Ring Size

\varnothing 106.00 x \varnothing 7.00

132.00

Part No

PTD 1320 1165 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
132.00 x 116.50 x 6.30

O-Ring Size

\varnothing 116.84 x \varnothing 5.33

133.00

Part No

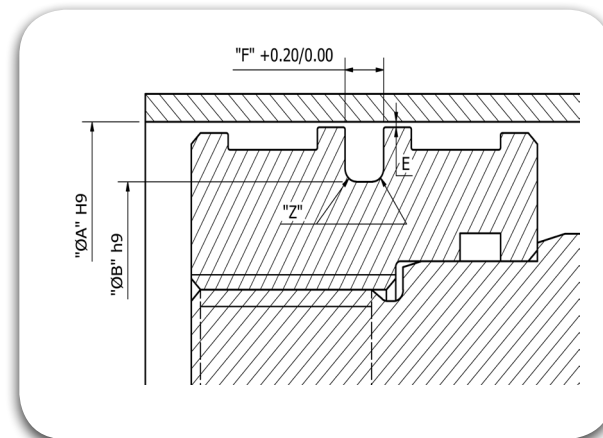
PTD 1330 1120 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
133.00 x 112.00 x 8.10

O-Ring Size

\varnothing 113.67 x \varnothing 7.00



135.00

Part No

PTD 1350 1140 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
135.00 x 114.00 x 8.10

O-Ring Size

\varnothing 113.67 x \varnothing 7.00

140.00

Part No

PTD 1400 1190 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 119.00 x 8.10

O-Ring Size

\varnothing 116.84 x \varnothing 7.00

145.00

Part No

PTD 1450 1240 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
145.00 x 124.00 x 8.10

O-Ring Size

\varnothing 123.19 x \varnothing 7.00

150.00

Part No

PTD 1500 1290 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
150.00 x 129.00 x 8.10

O-Ring Size

\varnothing 129.54 x \varnothing 7.00

154.00

Part No

PTD 1540 1330 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
154.00 x 133.00 x 8.10

O-Ring Size

\varnothing 132.72 x \varnothing 7.00

155.00

Part No

PTD 1550 1340 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
155.00 x 134.00 x 8.10

O-Ring Size

\varnothing 132.72 x \varnothing 7.00

160.00

Part No

PTD 1600 1390 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
160.00 x 139.00 x 8.10

O-Ring Size

\varnothing 139.07 x \varnothing 7.00

165.00

Part No

PTD 1650 1440 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
165.00 x 144.00 x 8.10

O-Ring Size

\varnothing 142.24 x \varnothing 7.00

170.00

Part No

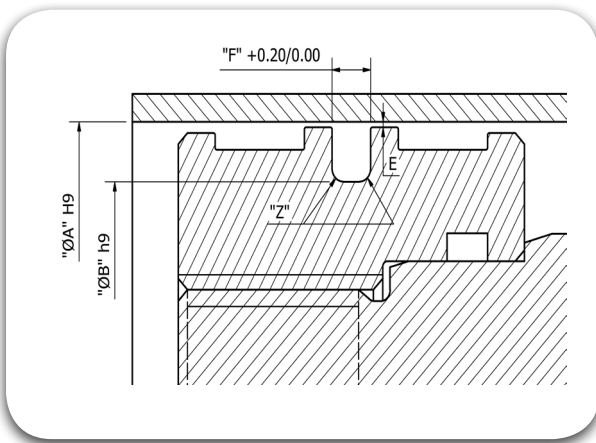
PTD 1700 1490 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
170.00 x 149.00 x 8.10

O-Ring Size

\varnothing 148.59 x \varnothing 7.00



175.00

Part No	PTD 1750 1540 081				
Groove Dimension	ØA	\times	ØB	\times	F
	175.00		154.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	151.77		CS	7.00	

180.00

Part No	PTD 1800 1590 081				
Groove Dimension	ØA	\times	ØB	\times	F
	180.00		159.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	158.12		CS	7.00	

190.00

Part No	PTD 1900 1690 081				
Groove Dimension	ØA	\times	ØB	\times	F
	190.00		169.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	164.47		CS	7.00	

200.00

Part No	PTD 2000 1790 081				
Groove Dimension	ØA	\times	ØB	\times	F
	200.00		179.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	177.17		CS	7.00	

210.00

Part No	PTD 2100 1890 081				
Groove Dimension	ØA	\times	ØB	\times	F
	210.00		189.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	189.87		CS	7.00	

220.00

Part No	PTD 2200 1990 081				
Groove Dimension	ØA	\times	ØB	\times	F
	220.00		199.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	196.22		CS	7.00	

230.00

Part No	PTD 2300 2090 081				
Groove Dimension	ØA	\times	ØB	\times	F
	230.00		209.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	202.57		CS	7.00	

240.00

Part No	PTD 2400 2190 081				
Groove Dimension	ØA	\times	ØB	\times	F
	240.00		219.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	215.27		CS	7.00	

250.00

Part No	PTD 2500 2290 081				
Groove Dimension	ØA	\times	ØB	\times	F
	250.00		229.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	227.97		CS	7.00	

260.00

Part No	PTD 2600 2390 081				
Groove Dimension	ØA	\times	ØB	\times	F
	260.00		239.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	227.97		CS	7.00	

270.00

Part No	PTD 2700 2490 081				
Groove Dimension	ØA	\times	ØB	\times	F
	270.00		249.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	240.67		CS	7.00	

280.00

Part No	PTD 2800 2590 081				
Groove Dimension	ØA	\times	ØB	\times	F
	280.00		259.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	253.37		CS	7.00	

290.00

Part No	PTD 2900 2690 081				
Groove Dimension	ØA	\times	ØB	\times	F
	290.00		269.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	266.07		CS	7.00	

300.00

Part No

PTD 3000 2790 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
300.00 x 279.00 x 8.10

O-Ring Size

\varnothing 278.77 x $\varnothing S$ 7.00

310.00

Part No

PTD 3100 2890 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
310.00 x 289.00 x 8.10

O-Ring Size

\varnothing 278.77 x $\varnothing S$ 7.00

320.00

Part No

PTD 3200 2990 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
320.00 x 299.00 x 8.10

O-Ring Size

\varnothing 291.47 x $\varnothing S$ 7.00

330.00

Part No

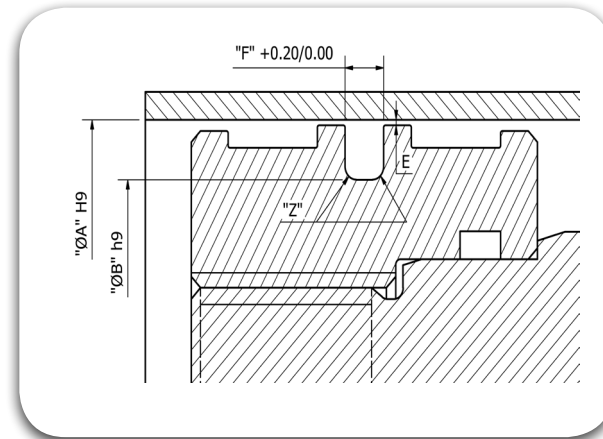
PTD 3300 3055 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
330.00 x 305.50 x 8.10

O-Ring Size

\varnothing 304.17 x $\varnothing S$ 7.00



340.00

Part No

PTD 3400 3155 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
340.00 x 315.50 x 8.10

O-Ring Size

\varnothing 304.17 x $\varnothing S$ 7.00

350.00

Part No

PTD 3500 3255 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
350.00 x 325.50 x 8.10

O-Ring Size

\varnothing 316.87 x $\varnothing S$ 7.00

360.00

Part No

PTD 3600 3355 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
360.00 x 335.50 x 8.10

O-Ring Size

\varnothing 329.57 x $\varnothing S$ 7.00

370.00

Part No

PTD 3700 3455 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
370.00 x 345.50 x 8.10

O-Ring Size

\varnothing 342.27 x $\varnothing S$ 7.00

380.00

Part No

PTD 3800 3555 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
380.00 x 355.50 x 8.10

O-Ring Size

\varnothing 354.97 x $\varnothing S$ 7.00

390.00

Part No

PTD 3900 3655 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
390.00 x 365.50 x 8.10

O-Ring Size

\varnothing 354.97 x $\varnothing S$ 7.00

400.00

Part No

PTD 4000 3755 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
400.00 x 375.50 x 8.10

O-Ring Size

\varnothing 367.67 x $\varnothing S$ 7.00

410.00

Part No

PTD 4100 3855 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
410.00 x 385.50 x 8.10

O-Ring Size

\varnothing 380.37 x $\varnothing S$ 7.00

420.00

Part No

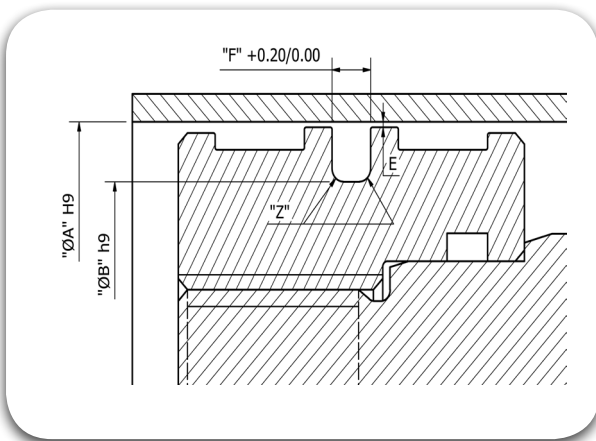
PTD 4200 3955 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
420.00 x 395.50 x 8.10

O-Ring Size

\varnothing 393.07 x $\varnothing S$ 7.00



430.00

Part No	PTD 4300 4055 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	430.00	405.50	8.10
O-Ring Size	$\text{Ø} 405.26$	$\times \text{CS} 7.00$	

440.00

Part No	PTD 4400 4155 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	440.00	415.50	8.10
O-Ring Size	$\text{Ø} 405.26$	$\times \text{CS} 7.00$	

450.00

Part No	PTD 4500 4255 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	450.00	425.50	8.10
O-Ring Size	$\text{Ø} 417.96$	$\times \text{CS} 7.00$	

460.00

Part No	PTD 4600 4355 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	460.00	435.50	8.10
O-Ring Size	$\text{Ø} 430.66$	$\times \text{CS} 7.00$	

470.00

Part No	PTD 4700 4455 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	470.00	445.50	8.10
O-Ring Size	$\text{Ø} 443.36$	$\times \text{CS} 7.00$	

480.00

Part No	PTD 4800 4555 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	480.00	455.50	8.10
O-Ring Size	$\text{Ø} 443.36$	$\times \text{CS} 7.00$	

490.00

Part No	PTD 4900 4655 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	490.00	465.50	8.10
O-Ring Size	$\text{Ø} 456.06$	$\times \text{CS} 7.00$	

500.00

Part No	PTD 5000 4755 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	500.00	475.50	8.10
O-Ring Size	$\text{Ø} 468.76$	$\times \text{CS} 7.00$	

510.00

Part No	PTD 5100 4855 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	510.00	485.50	8.10
O-Ring Size	$\text{Ø} 481.46$	$\times \text{CS} 7.00$	

520.00

Part No	PTD 5200 4955 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	520.00	495.50	8.10
O-Ring Size	$\text{Ø} 494.16$	$\times \text{CS} 7.00$	

530.00

Part No	PTD 5300 5055 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	530.00	505.50	8.10
O-Ring Size	$\text{Ø} 494.16$	$\times \text{CS} 7.00$	

540.00

Part No	PTD 5400 5155 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	540.00	515.50	8.10
O-Ring Size	$\text{Ø} 506.86$	$\times \text{CS} 7.00$	

550.00

Part No	PTD 5500 5255 081		
Groove Dimension	$\text{Ø}A$	$\times \text{Ø}B$	$\times F$
	550.00	525.50	8.10
O-Ring Size	$\text{Ø} 506.86$	$\times \text{CS} 7.00$	

560.00

Part No

PTD 5600 5355 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
560.00 x 535.50 x 8.10

O-Ring Size

\varnothing 532.26 x \varnothing 7.00

570.00

Part No

PTD 5700 5455 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
570.00 x 545.50 x 8.10

O-Ring Size

\varnothing 557.66 x \varnothing 7.00

580.00

Part No

PTD 5800 5555 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
580.00 x 555.50 x 8.10

O-Ring Size

\varnothing 557.66 x \varnothing 7.00

590.00

Part No

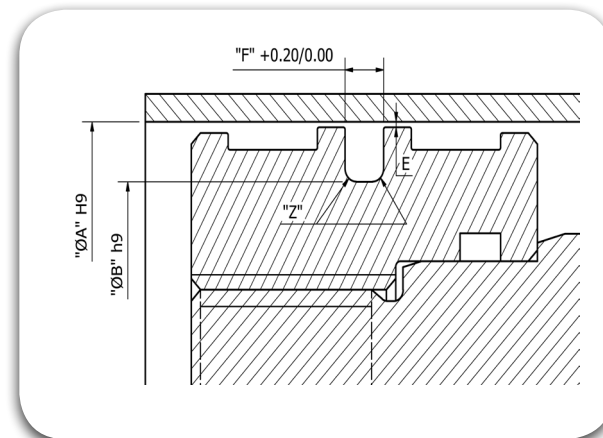
PTD 5900 5655 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
590.00 x 565.50 x 8.10

O-Ring Size

\varnothing 557.66 x \varnothing 7.00



600.00

Part No

PTD 6000 5755 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
600.00 x 575.50 x 8.10

O-Ring Size

\varnothing 557.66 x \varnothing 7.00

610.00

Part No

PTD 6100 5855 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
610.00 x 585.50 x 8.10

O-Ring Size

\varnothing 582.68 x \varnothing 7.00

620.00

Part No

PTD 6200 5955 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
620.00 x 595.50 x 8.10

O-Ring Size

\varnothing 582.68 x \varnothing 7.00

630.00

Part No

PTD 6300 6055 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
630.00 x 605.50 x 8.10

O-Ring Size

\varnothing 608.08 x \varnothing 7.00

640.00

Part No

PTD 6400 6155 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
640.00 x 615.50 x 8.10

O-Ring Size

\varnothing 608.08 x \varnothing 7.00

650.00

Part No

PTD 6500 6255 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
650.00 x 625.50 x 8.10

O-Ring Size

\varnothing 608.08 x \varnothing 7.00

660.00

Part No

PTD 6600 6355 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
660.00 x 635.50 x 8.10

O-Ring Size

\varnothing 633.48 x \varnothing 7.00

670.00

Part No

PTD 6700 6420 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
670.00 x 642.00 x 9.50

O-Ring Size

\varnothing 640.00 x \varnothing 8.40

680.00

Part No

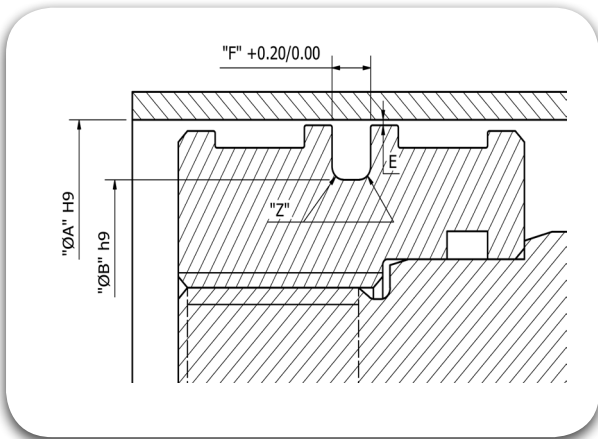
PTD 6800 6520 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
680.00 x 652.00 x 9.50

O-Ring Size

\varnothing 650.00 x \varnothing 8.40



690.00

Part No	PTD 6900 6620 095		
Groove Dimension	ØA	ØB	F
	690.00	662.00	9.50
O-Ring Size	Ø	CS	
	660.00	8.40	

700.00

Part No	PTD 7000 6720 095		
Groove Dimension	ØA	ØB	F
	700.00	672.00	9.50
O-Ring Size	Ø	CS	
	670.00	8.40	

710.00

Part No	PTD 7100 6820 095		
Groove Dimension	ØA	ØB	F
	710.00	682.00	9.50
O-Ring Size	Ø	CS	
	680.00	8.40	



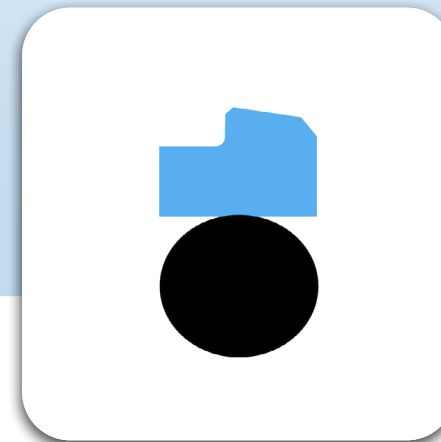
Piston Seals

PSS



TRIADA
TECHNOLOGIES







#SealingExcellence



Description

The TRITILT® is composed of two elements. The dynamic seal is a ring in TRIALON® (filled PTFE) while the static seal is an O-Ring in TRIAFLEX® (NBR), also acting as an energizer. Depending on the application, media, cycle speed etc., the PTFE compound is selected and the O-Ring compound is selected considering the media compatibility, temperature etc.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø8.00 – Ø2700.00 (Larger diameters on request)
 Standard material	TRIALON® T415 (Bronze Filled PTFE) with Energiser in TRIAFLEX® T571 (NBR 70 Shores) (Other Compounds available, so as to suit the Application Conditions).
 Temperature(°C)	-40°C to 200°C (Based on Elastomer Material).
 Speed	≤ 15.0 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air etc, depending on Seal Compounds selected.
 Pressure	≤ 800 bar

Material Details

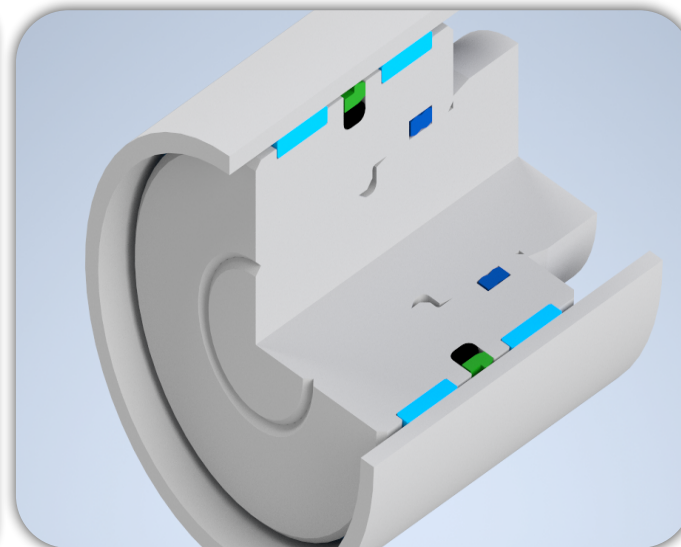
Seal Material	Seal Material Code	O-Ring Material	O-Ring Material / Code
TRIALON® Bronze Filled PTFE	T415	TRIAFLEX® NBR 70	N (T571)
TRIALON® Carbon Filled PTFE	T417	TRIAFLEX® FKM 75	F (T675)
		TRIAFLEX® EPDM 70	E (T771)
		TRIAFLEX® HNBR 70	H (T531)

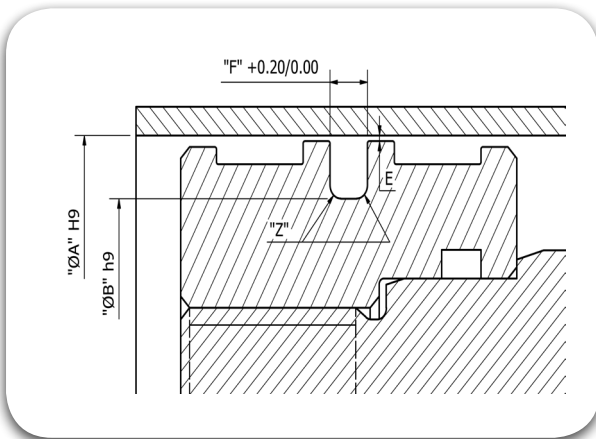
Nomenclature

Part No	PSS	1000	0849	063	T415	N
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	O-Ring Material Code	

Groove Details

Bore Diameter "A" H9			Radial Clearance "E" max		Radius "Z"	O-Ring Cross Section
Heavy duty Series	Standard Series	Light Duty Series	0-200 bar	200-400 bar		
-	8.00 - 16.90	17.00 - 26.90	0.30 - 0.20	0.20 - 0.15	0.30 - 0.50	1.78
-	17.00 - 26.90	27.00 - 59.90	0.40 - 0.25	0.25 - 0.15	0.50 - 0.80	2.62
17.00 - 26.90	27.00 - 59.90	60.00 - 199.90	0.40 - 0.25	0.25 - 0.15	0.80 - 1.20	3.53
27.00 - 59.90	60.00 - 199.90	200.00 - 255.90	0.50 - 0.30	0.30 - 0.20	1.20 - 1.50	5.33
60.00 - 199.90	200.00 - 255.90	256.00 - 669.90	0.50 - 0.30	0.30 - 0.20	1.50 - 2.00	7.00
200.00 - 255.90	256.00 - 669.90	670.00 - 999.90	0.60 - 0.35	0.35 - 0.25	1.50 - 2.00	7.00
256.00 - 669.90	670.00 - 999.90	-	0.70 - 0.40	0.40 - 0.30	2.00 - 3.00	8.40





9.00

Part No PSS 0090 0410 022

Groove Dimension ØA x ØB x F
 9.00 x 4.10 x 2.20

O-Ring Size Ø 3.68 x CS 1.78

10.00

Part No PSS 0100 0510 022

Groove Dimension ØA x ØB x F
 10.00 x 5.10 x 2.20

O-Ring Size Ø 4.80 x CS 1.80

12.00

Part No PSS 0120 0710 022

Groove Dimension ØA x ØB x F
 12.00 x 7.10 x 2.20

O-Ring Size Ø 6.70 x CS 1.80

14.00

Part No PSS 0140 0910 022

Groove Dimension ØA x ØB x F
 14.00 x 9.10 x 2.20

O-Ring Size Ø 8.75 x CS 1.80

15.00

Part No PSS 0150 0101 022

Groove Dimension ØA x ØB x F
 15.00 x 10.10 x 2.20

O-Ring Size Ø 9.25 x CS 1.78

16.00

Part No PSS 0160 0111 022

Groove Dimension ØA x ØB x F
 16.00 x 11.10 x 2.20

O-Ring Size Ø 10.82 x CS 1.78

18.00

Part No PSS 0180 0107 032

Groove Dimension ØA x ØB x F
 18.00 x 10.70 x 3.20

O-Ring Size Ø 9.19 x CS 2.62

20.00

Part No PSS 0200 0151 022

Groove Dimension ØA x ØB x F
 20.00 x 15.10 x 2.20

O-Ring Size Ø 14.00 x CS 1.78

20.00

Part No PSS 0200 0127 032

Groove Dimension ØA x ØB x F
 20.00 x 12.70 x 3.20

O-Ring Size Ø 12.37 x CS 2.62

22.00

Part No PSS 0220 0147 032

Groove Dimension ØA x ØB x F
 22.00 x 14.70 x 3.20

O-Ring Size Ø 13.94 x CS 2.62

25.00

Part No PSS 0250 0177 032

Groove Dimension ØA x ØB x F
 25.00 x 17.70 x 3.20

O-Ring Size Ø 17.12 x CS 2.62

25.00

Part No PSS 0250 0143 042

Groove Dimension ØA x ØB x F
 25.00 x 14.30 x 4.20

O-Ring Size Ø 13.87 x CS 3.53

28.00

Part No PSS 0280 0173 042

Groove Dimension ØA x ØB x F
 28.00 x 17.30 x 4.20

O-Ring Size Ø 15.47 x CS 3.53

30.00

Part No PSS 0300 0227 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
30.00 x 22.70 x 3.20

O-Ring Size \varnothing 21.89 x \varnothing 2.62

30.00

Part No PSS 0300 0193 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
30.00 x 19.30 x 4.20

O-Ring Size \varnothing 18.66 x \varnothing 3.53

32.00

Part No PSS 0320 0247 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
32.00 x 24.70 x 3.20

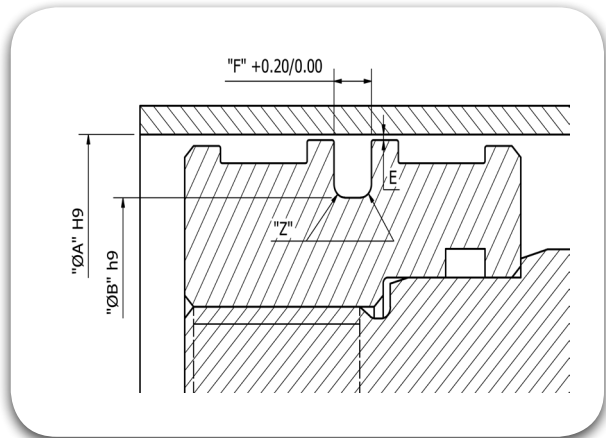
O-Ring Size \varnothing 23.47 x \varnothing 2.62

32.00

Part No PSS 0320 0213 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
32.00 x 21.30 x 4.20

O-Ring Size \varnothing 20.22 x \varnothing 3.53



35.00

Part No PSS 0350 0243 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
35.00 x 24.30 x 4.20

O-Ring Size \varnothing 23.40 x \varnothing 3.53

40.00

Part No PSS 0400 0327 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
40.00 x 32.70 x 3.20

O-Ring Size \varnothing 31.42 x \varnothing 2.62

40.00

Part No PSS 0400 0293 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
40.00 x 29.30 x 4.20

O-Ring Size \varnothing 28.17 x \varnothing 3.53

42.00

Part No PSS 0420 0313 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
42.00 x 31.30 x 4.20

O-Ring Size \varnothing 29.75 x \varnothing 3.53

45.00

Part No PSS 0450 0343 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
45.00 x 34.30 x 4.20

O-Ring Size \varnothing 32.92 x \varnothing 5.33

48.00

Part No PSS 0480 0373 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
48.00 x 37.30 x 4.20

O-Ring Size \varnothing 36.09 x \varnothing 3.53

50.00

Part No PSS 0500 0393 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 39.30 x 4.20

O-Ring Size \varnothing 37.70 x \varnothing 3.53

50.00

Part No PSS 0500 0349 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 34.90 x 6.30

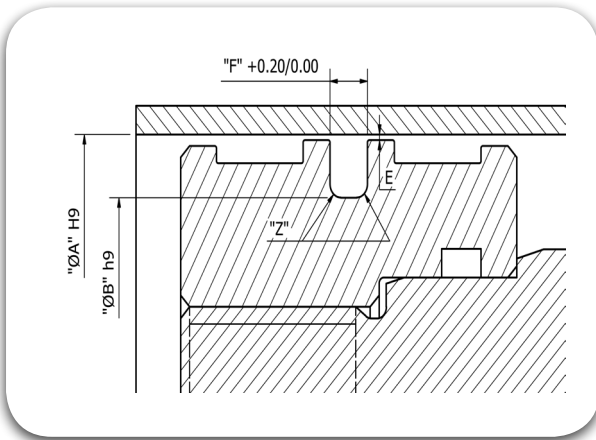
O-Ring Size \varnothing 32.69 x \varnothing 5.33

52.00

Part No PSS 0520 0413 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
52.00 x 41.30 x 4.20

O-Ring Size \varnothing 40.87 x \varnothing 3.53



55.00

Part No PSS 0550 0443 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.00 x 44.30 x 4.20

O-Ring Size \varnothing 44.04 x \varnothing 3.53

60.00

Part No PSS 0600 0449 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
60.00 x 44.90 x 6.30

O-Ring Size \varnothing 43.82 x \varnothing 5.33

63.00

Part No PSS 0630 0523 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.00 x 52.30 x 4.20

O-Ring Size \varnothing 50.39 x \varnothing 3.53

63.00

Part No PSS 0630 0479 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.00 x 47.90 x 6.30

O-Ring Size \varnothing 46.99 x \varnothing 5.33

65.00

Part No PSS 0650 0499 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
65.00 x 49.90 x 6.30

O-Ring Size \varnothing 46.99 x \varnothing 5.33

70.00

Part No PSS 0700 0593 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
70.00 x 59.30 x 4.20

O-Ring Size \varnothing 56.74 x \varnothing 3.53

70.00

Part No PSS 0700 0549 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
70.00 x 54.90 x 6.30

O-Ring Size \varnothing 53.34 x \varnothing 5.33

75.00

Part No PSS 0750 0599 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 59.90 x 6.30

O-Ring Size \varnothing 56.52 x \varnothing 5.33

80.00

Part No PSS 0800 0649 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 64.90 x 6.30

O-Ring Size \varnothing 62.87 x \varnothing 5.33

80.00

Part No PSS 0800 0595 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 59.50 x 8.10

O-Ring Size \varnothing 58.00 x \varnothing 7.00

85.00

Part No PSS 0850 0699 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
85.00 x 69.90 x 6.30

O-Ring Size \varnothing 69.22 x \varnothing 5.33

85.00

Part No PSS 0850 0645 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
85.00 x 64.50 x 8.10

O-Ring Size \varnothing 63.00 x \varnothing 7.00

90.00

Part No PSS 0900 0749 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 74.90 x 6.30

O-Ring Size \varnothing 72.39 x \varnothing 5.33

90.00

Part No PSS 0900 0695 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 69.50 x 8.10

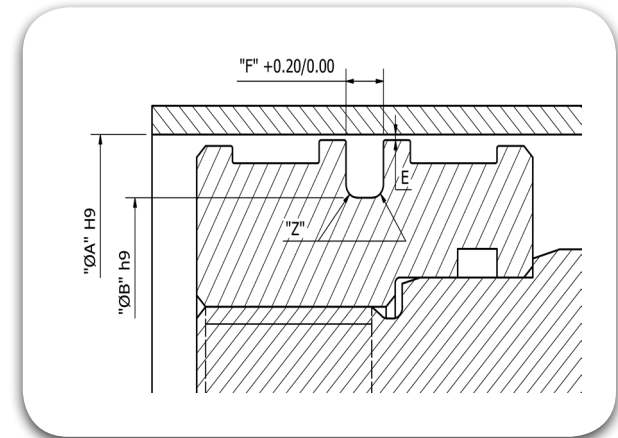
O-Ring Size \varnothing 68.00 x \varnothing 7.00

95.00

Part No PSS 0950 0799 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 79.90 x 6.30

O-Ring Size \varnothing 78.74 x \varnothing 5.33



95.00

Part No PSS 0950 0745 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 74.50 x 8.10

O-Ring Size \varnothing 73.00 x \varnothing 7.00

100.00

Part No PSS 1000 0849 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
100.00 x 84.90 x 6.30

O-Ring Size \varnothing 81.92 x \varnothing 5.33

100.00

Part No PSS 1000 0795 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
100.00 x 79.50 x 8.10

O-Ring Size \varnothing 78.00 x \varnothing 7.00

105.00

Part No PSS 1050 0899 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
105.00 x 89.90 x 6.30

O-Ring Size \varnothing 88.27 x \varnothing 5.33

105.00

Part No PSS 1050 0845 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
105.00 x 84.50 x 8.10

O-Ring Size \varnothing 83.00 x \varnothing 7.00

106.00

Part No PSS 1060 0909 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
106.00 x 90.90 x 6.30

O-Ring Size \varnothing 88.27 x \varnothing 5.33

110.00

Part No PSS 1100 0949 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
110.00 x 94.90 x 6.30

O-Ring Size \varnothing 91.44 x \varnothing 5.33

110.00

Part No PSS 1100 0895 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
110.00 x 89.50 x 8.10

O-Ring Size \varnothing 88.00 x \varnothing 7.00

115.00

Part No PSS 1150 0999 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
115.00 x 99.90 x 6.30

O-Ring Size \varnothing 97.79 x \varnothing 5.33

115.00

Part No PSS 1150 0945 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
115.00 x 94.50 x 8.10

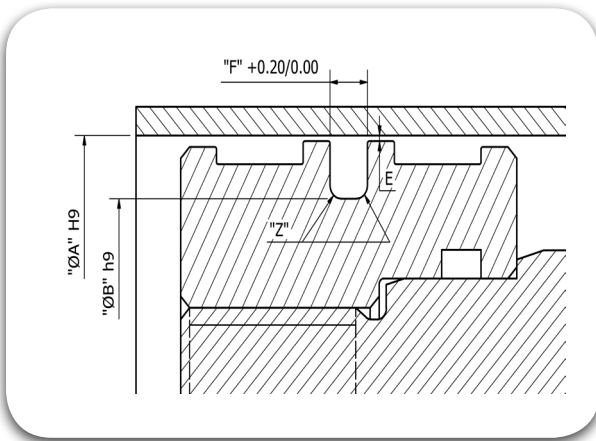
O-Ring Size \varnothing 93.00 x \varnothing 7.00

120.00

Part No PSS 1200 1049 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
120.00 x 104.90 x 6.30

O-Ring Size \varnothing 104.14 x \varnothing 5.33



120.00

Part No	PSS 1200 0995 081		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	120.00	99.50	8.10
O-Ring Size	Ø 98.00	\times CS 7.00	

125.00

Part No	PSS 1250 1099 063		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	125.00	109.90	6.30
O-Ring Size	Ø 107.32	\times CS 5.33	

125.00

Part No	PSS 1250 1045 081		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	125.00	104.50	8.10
O-Ring Size	Ø 103.00	\times CS 7.00	

130.00

Part No	PSS 1300 1149 063		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	130.00	114.90	6.30
O-Ring Size	Ø 113.67	\times CS 5.33	

130.00

Part No	PSS 1300 1095 081		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	130.00	109.50	8.10
O-Ring Size	Ø 108.00	\times CS 7.00	

135.00

Part No	PSS 1350 1145 081		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	135.00	114.50	8.10
O-Ring Size	Ø 113.67	\times CS 7.00	

140.00

Part No	PSS 1400 1195 081		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	140.00	119.50	8.10
O-Ring Size	Ø 116.84	\times CS 7.00	

145.00

Part No	PSS 1450 1245 081		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	145.00	124.50	8.10
O-Ring Size	Ø 123.19	\times CS 7.00	

150.00

Part No	PSS 1500 1295 081		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	150.00	129.50	8.10
O-Ring Size	Ø 126.37	\times CS 7.00	

155.00

Part No	PSS 1550 1399 063		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	155.00	139.90	6.30
O-Ring Size	Ø 135.89	\times CS 5.33	

160.00

Part No	PSS 1600 1449 063		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	160.00	144.90	6.30
O-Ring Size	Ø 142.24	\times CS 5.33	

160.00

Part No	PSS 1600 1395 081		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	160.00	139.50	8.10
O-Ring Size	Ø 135.89	\times CS 7.00	

165.00

Part No	PSS 1650 1499 063		
Groove Dimension	$\text{Ø}A$	\times $\text{Ø}B$	\times F
	165.00	149.90	6.30
O-Ring Size	Ø 148.49	\times CS 5.33	

165.00

Part No

PSS 1650 1445 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
165.00 x 144.50 x 8.10

O-Ring Size

\varnothing 142.24 x \varnothing 7.00

170.00

Part No

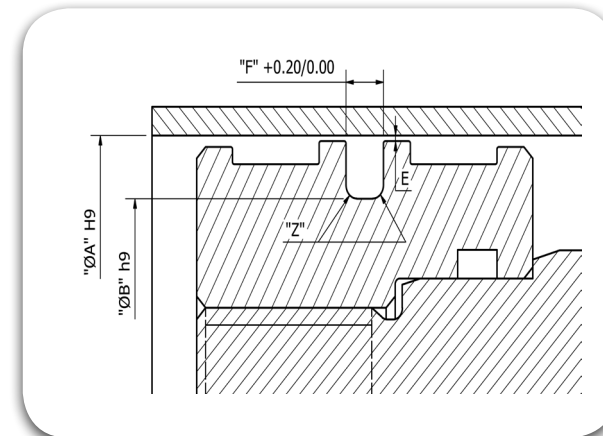
PSS 1700 1495 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
170.00 x 149.50 x 8.10

O-Ring Size

\varnothing 145.42 x \varnothing 7.00



175.00

Part No

PSS 1750 1595 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
175.00 x 159.50 x 6.30

O-Ring Size

\varnothing 158.12 x \varnothing 5.33

180.00

Part No

PSS 1800 1649 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
180.00 x 164.90 x 6.30

O-Ring Size

\varnothing 164.47 x \varnothing 7.00

180.00

Part No

PSS 1800 1595 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
180.00 x 159.50 x 8.10

O-Ring Size

\varnothing 158.12 x \varnothing 7.00

190.00

Part No

PSS 1900 1749 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
190.00 x 174.90 x 6.30

O-Ring Size

\varnothing 170.82 x \varnothing 5.33

190.00

Part No

PSS 1900 1695 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
190.00 x 169.50 x 8.10

O-Ring Size

\varnothing 164.47 x \varnothing 5.33

200.00

Part No

PSS 2000 1849 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
200.00 x 184.90 x 6.30

O-Ring Size

\varnothing 183.52 x \varnothing 5.33

200.00

Part No

PSS 2000 1795 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
200.00 x 179.50 x 8.10

O-Ring Size

\varnothing 177.17 x \varnothing 7.00

205.00

Part No

PSS 2050 1845 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
205.00 x 184.50 x 8.10

O-Ring Size

\varnothing 183.52 x \varnothing 7.00

210.00

Part No

PSS 2100 1895 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
210.00 x 189.50 x 8.10

O-Ring Size

\varnothing 183.52 x \varnothing 7.00

220.00

Part No

PSS 2200 2049 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
220.00 x 204.90 x 6.30

O-Ring Size

\varnothing 202.57 x \varnothing 5.33

220.00

Part No

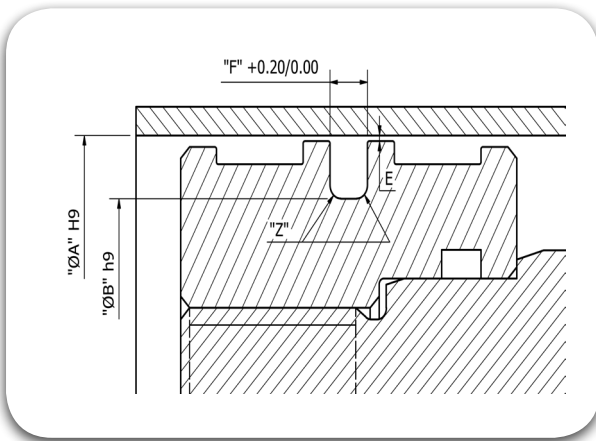
PSS 2200 1995 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
220.00 x 199.50 x 8.10

O-Ring Size

\varnothing 196.22 x \varnothing 7.00



230.00

Part No	PSS 2300 2095 081				
Groove Dimension	ØA	\times	ØB	\times	F
	230.00		209.50		8.10
O-Ring Size	Ø	\times	CS	7.00	
	208.92		CS	7.00	

240.00

Part No	PSS 2400 2195 081				
Groove Dimension	ØA	\times	ØB	\times	F
	240.00		219.50		8.10
O-Ring Size	Ø	\times	CS	7.00	
	215.27		CS	7.00	

250.00

Part No	PSS 2500 2295 081				
Groove Dimension	ØA	\times	ØB	\times	F
	250.00		229.50		8.10
O-Ring Size	Ø	\times	CS	7.00	
	227.97		CS	7.00	

250.00

Part No	PSS 2500 2260 081				
Groove Dimension	ØA	\times	ØB	\times	F
	250.00		226.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	227.97		CS	7.00	

260.00

Part No	PSS 2600 2360 081				
Groove Dimension	ØA	\times	ØB	\times	F
	260.00		236.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	227.97		CS	7.00	

270.00

Part No	PSS 2700 2460 081				
Groove Dimension	ØA	\times	ØB	\times	F
	270.00		246.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	240.67		CS	7.00	

280.00

Part No	PSS 2800 2560 081				
Groove Dimension	ØA	\times	ØB	\times	F
	280.00		256.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	253.37		CS	7.00	

300.00

Part No	PSS 3000 2760 081				
Groove Dimension	ØA	\times	ØB	\times	F
	300.00		276.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	266.07		CS	7.00	

306.00

Part No	PSS 3060 2855 081				
Groove Dimension	ØA	\times	ØB	\times	F
	306.00		285.50		8.10
O-Ring Size	Ø	\times	CS	7.00	
	278.77		CS	7.00	

310.00

Part No	PSS 3100 2860 081				
Groove Dimension	ØA	\times	ØB	\times	F
	310.00		286.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	278.77		CS	7.00	

320.00

Part No	PSS 3200 2995 081				
Groove Dimension	ØA	\times	ØB	\times	F
	320.00		299.50		8.10
O-Ring Size	Ø	\times	CS	7.00	
	291.47		CS	7.00	

320.00

Part No	PSS 3200 2960 081				
Groove Dimension	ØA	\times	ØB	\times	F
	320.00		296.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	291.47		CS	7.00	

330.00

Part No	PSS 3300 3060 081				
Groove Dimension	ØA	\times	ØB	\times	F
	330.00		306.00		8.10
O-Ring Size	Ø	\times	CS	7.00	
	304.17		CS	7.00	

340.00

Part No

PSS 3400 3160 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
340.00 x 316.00 x 8.10

O-Ring Size

\varnothing 316.87 x \varnothing 7.00

345.00

Part No

PSS 3450 3245 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
345.00 x 324.50 x 8.10

O-Ring Size

\varnothing 316.87 x \varnothing 7.00

350.00

Part No

PSS 3500 3260 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
350.00 x 326.00 x 8.10

O-Ring Size

\varnothing 316.87 x \varnothing 7.00

360.00

Part No

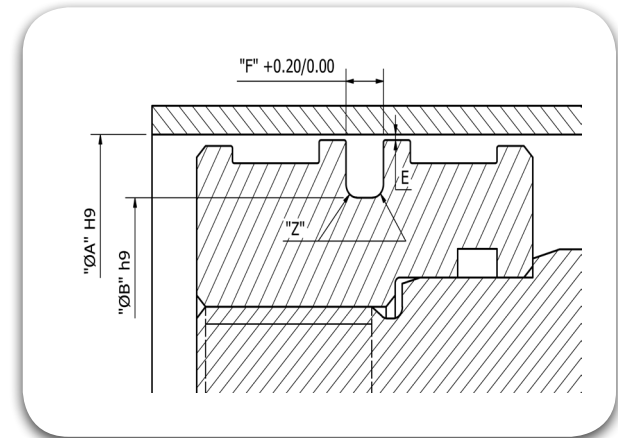
PSS 3600 3360 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
360.00 x 336.00 x 8.10

O-Ring Size

\varnothing 329.57 x \varnothing 7.00



370.00

Part No

PSS 3700 3460 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
370.00 x 346.00 x 8.10

O-Ring Size

\varnothing 342.27 x \varnothing 7.00

380.00

Part No

PSS 3800 3560 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
380.00 x 356.00 x 8.10

O-Ring Size

\varnothing 354.97 x \varnothing 7.00

400.00

Part No

PSS 4000 3760 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
400.00 x 376.00 x 8.10

O-Ring Size

\varnothing 367.67 x \varnothing 7.00

420.00

Part No

PSS 4200 3960 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
420.00 x 396.00 x 8.10

O-Ring Size

\varnothing 393.07 x \varnothing 7.00

430.00

Part No

PSS 4300 4060 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
430.00 x 406.00 x 8.10

O-Ring Size

\varnothing 405.26 x \varnothing 7.00

440.00

Part No

PSS 4400 4160 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
440.00 x 416.00 x 8.10

O-Ring Size

\varnothing 405.26 x \varnothing 7.00

450.00

Part No

PSS 4500 4260 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
450.00 x 426.00 x 8.10

O-Ring Size

\varnothing 417.96 x \varnothing 7.00

480.00

Part No

PSS 4800 4560 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
480.00 x 456.00 x 8.10

O-Ring Size

\varnothing 456.06 x \varnothing 7.00

500.00

Part No

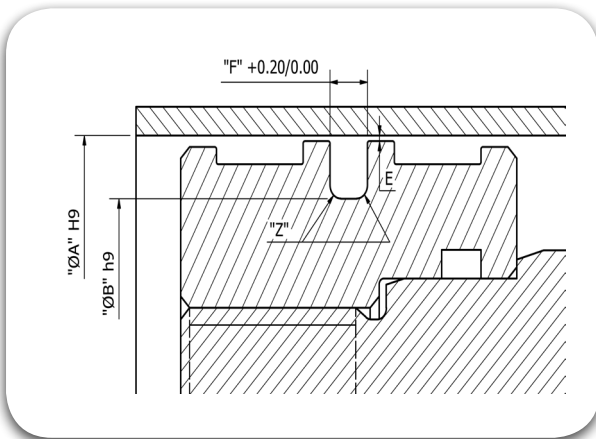
PSS 5000 4760 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
500.00 x 476.00 x 8.10

O-Ring Size

\varnothing 468.76 x \varnothing 7.00



520.00

Part No	PSS 5200 4995 081		
Groove Dimension	ØA	\times ØB	\times F
	520.00	499.50	8.10
O-Ring Size	Ø 494.16	\times CS 7.00	

540.00

Part No	PSS 5400 5160 081		
Groove Dimension	ØA	\times ØB	\times F
	540.00	516.00	8.10
O-Ring Size	Ø 506.86	\times CS 7.00	

600.00

Part No	PSS 6000 5760 081		
Groove Dimension	ØA	\times ØB	\times F
	600.00	576.00	8.10
O-Ring Size	Ø 557.66	\times CS 7.00	

650.00

Part No	PSS 6500 6260 081		
Groove Dimension	ØA	\times ØB	\times F
	650.00	626.00	8.10
O-Ring Size	Ø 608.08	\times CS 7.00	

700.00

Part No	PSS 7000 6727 095		
Groove Dimension	ØA	\times ØB	\times F
	700.00	672.70	9.50
O-Ring Size	Ø 670.00	\times CS 8.40	

800.00

Part No	PSS 8000 7727 095		
Groove Dimension	ØA	\times ØB	\times F
	800.00	772.70	9.50
O-Ring Size	Ø 770.00	\times CS 8.40	

860.00

Part No	PSS 8600 8327 095		
Groove Dimension	ØA	\times ØB	\times F
	860.00	832.70	9.50
O-Ring Size	Ø 830.00	\times CS 8.40	

900.00

Part No	PSS 9000 8727 095		
Groove Dimension	ØA	\times ØB	\times F
	900.00	872.70	9.50
O-Ring Size	Ø 870.00	\times CS 8.40	

920.00

Part No	PSS 9200 8927 095		
Groove Dimension	ØA	\times ØB	\times F
	920.00	892.70	9.50
O-Ring Size	Ø 890.00	\times CS 8.40	

1000.00

Part No	PSSX1000 0972 095		
Groove Dimension	ØA	\times ØB	\times F
	1000.00	972.70	9.50
O-Ring Size	Ø 970.00	\times CS 8.40	

1000.00

Part No	PSSX1000 0962 138		
Groove Dimension	ØA	\times ØB	\times F
	1000.00	962.00	13.80
O-Ring Size	Ø 960.00	\times CS 12.00	

1200.00

Part No	PSSX1200 1172 095		
Groove Dimension	ØA	\times ØB	\times F
	1200.00	1172.70	9.50
O-Ring Size	Ø 1170.0	\times CS 8.40	

1200.00

Part No	PSSX1200 1162 138		
Groove Dimension	ØA	\times ØB	\times F
	1200.00	1162.00	13.80
O-Ring Size	Ø 1160.0	\times CS 12.00	

1500.00

Part No

PSSX1500 1462 138

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
1500.00 x 1462.00 x 13.80

O-Ring Size

\varnothing 1460.0 x \varnothing 12.00

2000.00

Part No

PSSX2000 1962 138

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
2000.00 x 1962.00 x 13.80

O-Ring Size

\varnothing 1960.0 x \varnothing 12.00

2700.00

Part No

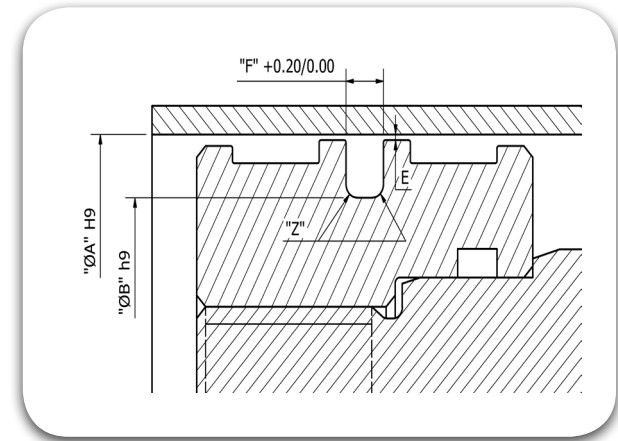
PSSX2700 2662 138

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
2700.00 x 2662.00 x 13.80

O-Ring Size

\varnothing 2660.0 x \varnothing 12.00





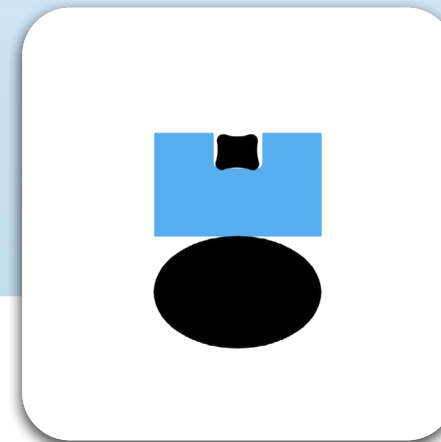
Piston Seals

PQD



TRIADA
TECHNOLOGIES







#SealingExcellence



Description

The P-Q-D is a Double Acting Seal made of three sealing elements, the dynamic seal is a ring in TRIALON[®] (filled PTFE) with the LOBE Ring in TRIAFLEX[®] (NBR) at the centre, which results in low friction, while the static seal is an O-Ring in TRIAFLEX[®], also acting as an energizer. Depending on the application, media, cycle speed etc., the PTFE compound is selected and the O-Ring & Lobe Ring compound also can be changed from the standard compounds, considering the media compatibility, temperature etc.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø16.00 – Ø700.00
 Standard material	TRIALON [®] T415 (Bronze Filled PTFE) with Energiser & Lobe ring in TRIAFLEX [®] T571 (NBR 70 Shores) (Other Compounds available, so as to suit the Application Conditions).
 Temperature(°C)	-40°C to 200°C (Based on Elastomer Material).
 Speed	≤ 2.00 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air etc, depending on Seal Compounds selected.
 Pressure	≤ 400 bar

Material Details

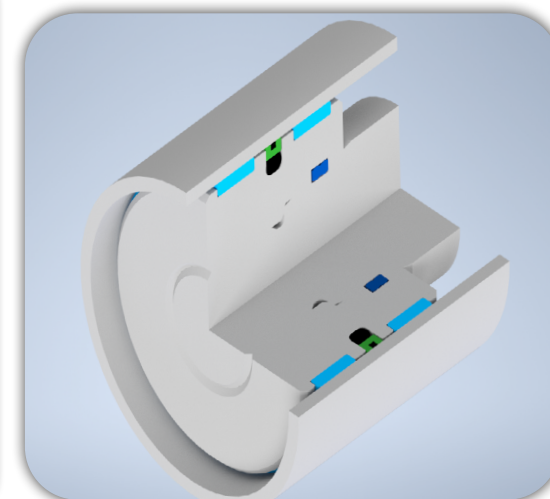
Seal Material	Seal Material Code	O-Ring / Lobe Ring Material	O-Ring / Lobe Ring Material / Code
TRIALON® Bronze Filled PTFE	T415	TRIAFLEX® NBR 70	N (T571)
TRIALON® Carbon Filled PTFE	T417	TRIAFLEX® FKM 75	F (T675)
		TRIAFLEX® EPDM 70	E (T771)
		TRIAFLEX® HNBR 70	H (T531)

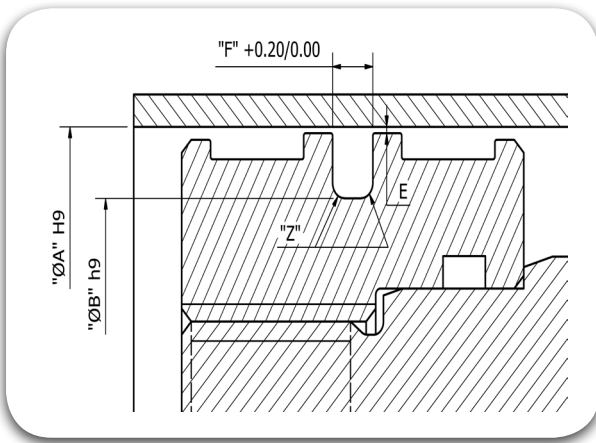
Nomenclature

Part No	PQD	0160	0050	042	T415	N
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	O-Ring / Lobe Ring Material Code	

Groove Details

Bore Diameter "A" H9		Radius	Radial Clearance "E" max		Lobe Ring Cross Section	O-Ring Cross Section
Standard Series	Light Duty Series	"Z" max	0-200 bar	200-400 bar		
15.00 - 39.90	40.00 -79.90	1.00	0.15	0.10	1.78	3.53
40.00 - 79.90	80.00 -132.90	1.30	0.20	0.15	1.78	5.33
80.00 -132.90	133.00 - 252.90	1.80	0.20	0.15	2.62	7.00
133.00 - 252.90		1.80	0.20	0.15	2.62	7.00
253.00 - 462.90		2.50	0.30	0.25	3.53	8.40
463.00 - 462.90		3.00	0.40	0.35	5.33	10.00





16.00

Part No	PQD 0160 0050 042		
Groove Dimension	ØA	x ØB	x F
	16.00	5.00	4.20
O-Ring Size	ID 4.34	x CS 3.53	
Lobe-Ring Size	ID 12.42	x CS 1.78	

18.00

Part No	PQD 0180 0070 042		
Groove Dimension	ØA	x ØB	x F
	18.00	7.00	4.20
O-Ring Size	ID 6.42	x CS 3.53	
Lobe-Ring Size	ID 14.00	x CS 1.78	

20.00

Part No	PQD 0200 0090 042		
Groove Dimension	ØA	x ØB	x F
	20.00	9.00	4.20
O-Ring Size	ID 8.42	x CS 3.53	
Lobe-Ring Size	ID 15.60	x CS 1.78	

22.00

Part No	PQD 0220 0110 042		
Groove Dimension	ØA	x ØB	x F
	22.00	11.00	4.20
O-Ring Size	ID 10.69	x CS 3.53	
Lobe-Ring Size	ID 17.17	x CS 1.78	

25.00

Part No	PQD 0250 0140 042		
Groove Dimension	ØA	x ØB	x F
	25.00	14.00	4.20
O-Ring Size	ID 13.87	x CS 3.53	
Lobe-Ring Size	ID 20.35	x CS 1.78	

28.00

Part No	PQD 0280 0170 042		
Groove Dimension	ØA	x ØB	x F
	28.00	17.00	4.20
O-Ring Size	ID 15.47	x CS 3.53	
Lobe-Ring Size	ID 23.52	x CS 1.78	

30.00

Part No	PQD 0300 0190 042		
Groove Dimension	ØA	x ØB	x F
	30.00	19.00	4.20
O-Ring Size	ID 18.66	x CS 3.53	
Lobe-Ring Size	ID 25.12	x CS 1.78	

32.00

Part No	PQD 0320 0210 042		
Groove Dimension	ØA	x ØB	x F
	32.00	21.00	4.20
O-Ring Size	ID 20.22	x CS 3.53	
Lobe-Ring Size	ID 26.70	x CS 1.78	

35.00

Part No	PQD 0350 0240 042		
Groove Dimension	ØA	x ØB	x F
	35.00	24.00	4.20
O-Ring Size	ID 23.40	x CS 3.53	
Lobe-Ring Size	ID 29.87	x CS 1.78	

40.00

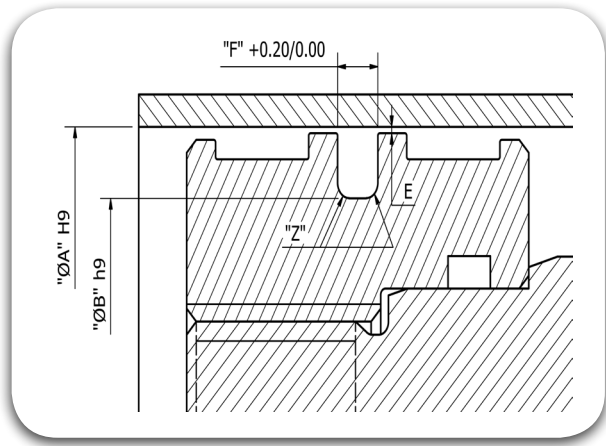
Part No	PQD 0400 0290 042		
Groove Dimension	ØA	x ØB	x F
	40.00	29.00	4.20
O-Ring Size	ID 28.17	x CS 3.53	
Lobe-Ring Size	ID 34.65	x CS 1.78	

42.00

Part No	PQD 0420 0310 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	42.00 x 31.00 x 4.20		
O-Ring Size	\varnothing 29.75 x $\frac{CS}{CS}$ 3.53		
Lobe-Ring Size	\varnothing 37.82 x $\frac{CS}{CS}$ 1.78		

45.00

Part No	PQD 0450 0340 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	45.00 x 34.00 x 4.20		
O-Ring Size	\varnothing 32.92 x $\frac{CS}{CS}$ 3.53		
Lobe-Ring Size	\varnothing 37.82 x $\frac{CS}{CS}$ 1.78		



48.00

Part No	PQD 0480 0370 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	48.00 x 37.00 x 4.20		
O-Ring Size	\varnothing 36.09 x $\frac{CS}{CS}$ 3.53		
Lobe-Ring Size	\varnothing 41.00 x $\frac{CS}{CS}$ 1.78		

50.00

Part No	PQD 0500 0390 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	50.00 x 39.00 x 4.20		
O-Ring Size	\varnothing 37.70 x $\frac{CS}{CS}$ 3.53		
Lobe-Ring Size	\varnothing 44.17 x $\frac{CS}{CS}$ 1.78		

50.00

Part No	PQD 0500 0345 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	50.00 x 34.50 x 6.30		
O-Ring Size	\varnothing 32.69 x $\frac{CS}{CS}$ 3.53		
Lobe-Ring Size	\varnothing 44.17 x $\frac{CS}{CS}$ 1.78		

52.00

Part No	PQD 0520 0410 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	52.00 x 41.00 x 4.20		
O-Ring Size	\varnothing 40.87 x $\frac{CS}{CS}$ 3.53		
Lobe-Ring Size	\varnothing 47.35 x $\frac{CS}{CS}$ 1.78		

55.00

Part No	PQD 0550 0440 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	55.00 x 44.00 x 4.20		
O-Ring Size	\varnothing 44.04 x $\frac{CS}{CS}$ 3.53		
Lobe-Ring Size	\varnothing 50.52 x $\frac{CS}{CS}$ 1.78		

60.00

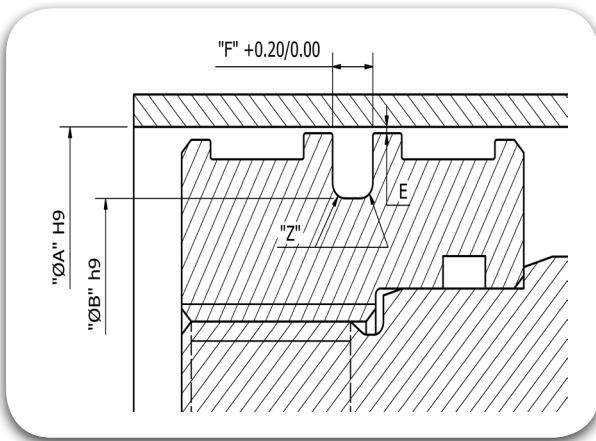
Part No	PQD 0600 0490 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	60.00 x 49.00 x 4.20		
O-Ring Size	\varnothing 47.22 x $\frac{CS}{CS}$ 3.53		
Lobe-Ring Size	\varnothing 53.70 x $\frac{CS}{CS}$ 1.78		

63.00

Part No	PQD 0630 0520 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	63.00 x 52.00 x 4.20		
O-Ring Size	\varnothing 50.39 x $\frac{CS}{CS}$ 3.53		
Lobe-Ring Size	\varnothing 56.87 x $\frac{CS}{CS}$ 1.78		

63.00

Part No	PQD 0630 0475 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	63.00 x 47.50 x 6.30		
O-Ring Size	\varnothing 46.99 x $\frac{CS}{CS}$ 5.33		
Lobe-Ring Size	\varnothing 56.87 x $\frac{CS}{CS}$ 1.78		



65.00

Part No	PQD 0650 0540 042		
Groove Dimension	ØA	\times ØB	\times F
	65.00	54.00	4.20
O-Ring Size	Ø 53.57	\times C/S 3.53	
Lobe-Ring Size	Ø 60.05	\times C/S 1.78	

70.00

Part No	PQD 0700 0590 042		
Groove Dimension	ØA	\times ØB	\times F
	70.00	59.00	4.20
O-Ring Size	Ø 56.74	\times C/S 3.53	
Lobe-Ring Size	Ø 63.22	\times C/S 1.78	

70.00

Part No	PQD 0700 0545 063		
Groove Dimension	ØA	\times ØB	\times F
	70.00	54.50	6.30
O-Ring Size	Ø 53.34	\times C/S 5.33	
Lobe-Ring Size	Ø 63.22	\times C/S 1.78	

75.00

Part No	PQD 0750 0640 042		
Groove Dimension	ØA	\times ØB	\times F
	75.00	64.00	4.20
O-Ring Size	Ø 63.09	\times C/S 3.53	
Lobe-Ring Size	Ø 69.57	\times C/S 1.78	

80.00

Part No	PQD 0800 0645 063		
Groove Dimension	ØA	\times ØB	\times F
	80.00	64.50	6.30
O-Ring Size	Ø 53.34	\times C/S 5.33	
Lobe-Ring Size	Ø 72.75	\times C/S 1.78	

80.00

Part No	PQD 0800 0590 081		
Groove Dimension	ØA	\times ØB	\times F
	80.00	59.00	8.10
O-Ring Size	Ø 58.00	\times C/S 7.00	
Lobe-Ring Size	Ø 71.12	\times C/S 2.62	

85.00

Part No	PQD 0850 0695 063		
Groove Dimension	ØA	\times ØB	\times F
	85.00	69.50	6.30
O-Ring Size	Ø 69.22	\times C/S 5.33	
Lobe-Ring Size	Ø 75.92	\times C/S 1.78	

85.00

Part No	PQD 0850 0640 081		
Groove Dimension	ØA	\times ØB	\times F
	85.00	64.00	8.10
O-Ring Size	Ø 63.00	\times C/S 7.00	
Lobe-Ring Size	Ø 75.87	\times C/S 2.62	

90.00

Part No	PQD 0900 0745 063		
Groove Dimension	ØA	\times ØB	\times F
	90.00	74.50	6.30
O-Ring Size	Ø 72.39	\times C/S 5.33	
Lobe-Ring Size	Ø 82.27	\times C/S 1.78	

90.00

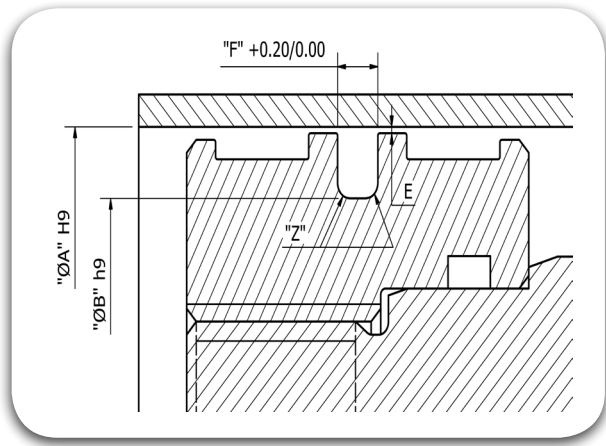
Part No	PQD 0900 0690 081		
Groove Dimension	ØA	\times ØB	\times F
	90.00	69.00	8.10
O-Ring Size	Ø 68.00	\times C/S 7.00	
Lobe-Ring Size	Ø 82.22	\times C/S 2.62	

95.00

Part No	PQD 0950 0795 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	95.00 x 79.50 x 6.30	
O-Ring Size	\varnothing x $\frac{CS}{CS}$	78.74 x 5.33	
Lobe-Ring Size	\varnothing x $\frac{CS}{CS}$	88.62 x 1.78	

95.00

Part No	PQD 0950 0740 081		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	95.00 x 74.00 x 8.10	
O-Ring Size	\varnothing x $\frac{CS}{CS}$	73.00 x 7.00	
Lobe-Ring Size	\varnothing x $\frac{CS}{CS}$	82.22 x 2.62	



100.00

Part No	PQD 1000 0845 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	100.00 x 84.50 x 6.30	
O-Ring Size	\varnothing x $\frac{CS}{CS}$	81.92 x 5.33	
Lobe-Ring Size	\varnothing x $\frac{CS}{CS}$	88.62 x 1.78	

100.00

Part No	PQD 1000 0790 081		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	100.00 x 79.00 x 8.10	
O-Ring Size	\varnothing x $\frac{CS}{CS}$	78.00 x 7.00	
Lobe-Ring Size	\varnothing x $\frac{CS}{CS}$	88.57 x 2.62	

105.00

Part No	PQD 1050 0895 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	105.00 x 89.50 x 6.30	
O-Ring Size	\varnothing x $\frac{CS}{CS}$	88.27 x 5.33	
Lobe-Ring Size	\varnothing x $\frac{CS}{CS}$	94.97 x 1.78	

105.00

Part No	PQD 1050 0840 081		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	105.00 x 84.00 x 8.10	
O-Ring Size	\varnothing x $\frac{CS}{CS}$	83.00 x 7.00	
Lobe-Ring Size	\varnothing x $\frac{CS}{CS}$	94.92 x 2.62	

110.00

Part No	PQD 1100 0945 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	110.00 x 94.50 x 6.30	
O-Ring Size	\varnothing x $\frac{CS}{CS}$	91.44 x 5.33	
Lobe-Ring Size	\varnothing x $\frac{CS}{CS}$	101.32 x 1.78	

110.00

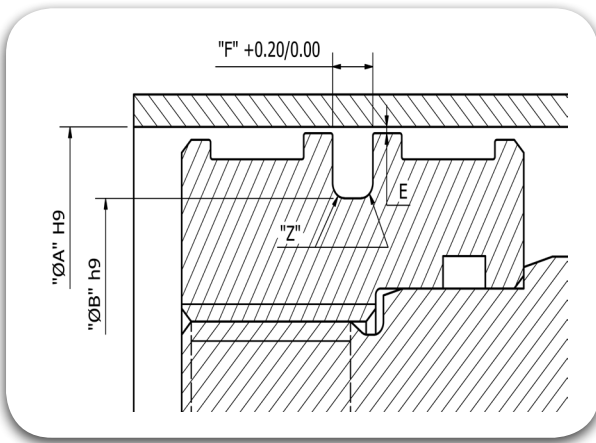
Part No	PQD 1100 0890 081		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	110.00 x 89.00 x 8.10	
O-Ring Size	\varnothing x $\frac{CS}{CS}$	88.00 x 7.00	
Lobe-Ring Size	\varnothing x $\frac{CS}{CS}$	101.27 x 2.62	

115.00

Part No	PQD 1150 0995 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	115.00 x 99.50 x 6.30	
O-Ring Size	\varnothing x $\frac{CS}{CS}$	97.79 x 5.33	
Lobe-Ring Size	\varnothing x $\frac{CS}{CS}$	107.67 x 1.78	

115.00

Part No	PQD 1150 0940 081		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	115.00 x 94.00 x 8.10	
O-Ring Size	\varnothing x $\frac{CS}{CS}$	93.00 x 7.00	
Lobe-Ring Size	\varnothing x $\frac{CS}{CS}$	107.62 x 2.62	



120.00

Part No	PQD 1200 1045 063				
Groove Dimension	ØA	\times	ØB	\times	F
	120.00		104.50		6.30
O-Ring Size	Ø	\times	C/S		
	100.9		5.33		
Lobe-Ring Size	Ø	\times	C/S		
	114.02		1.78		

120.00

Part No	PQD 1200 0990 081				
Groove Dimension	ØA	\times	ØB	\times	F
	120.00		99.00		8.10
O-Ring Size	Ø	\times	C/S		
	98.00		7.00		
Lobe-Ring Size	Ø	\times	C/S		
	107.62		2.62		

125.00

Part No	PQD 1250 1095 063				
Groove Dimension	ØA	\times	ØB	\times	F
	125.00		109.50		6.30
O-Ring Size	Ø	\times	C/S		
	107.32		5.33		
Lobe-Ring Size	Ø	\times	C/S		
	114.02		1.78		

125.00

Part No	PQD 1250 1040 081				
Groove Dimension	ØA	\times	ØB	\times	F
	125.00		104.00		8.10
O-Ring Size	Ø	\times	C/S		
	103.00		7.00		
Lobe-Ring Size	Ø	\times	C/S		
	113.97		2.62		

130.00

Part No	PQD 1300 1145 063				
Groove Dimension	ØA	\times	ØB	\times	F
	130.00		114.50		6.30
O-Ring Size	Ø	\times	C/S		
	113.67		7.00		
Lobe-Ring Size	Ø	\times	C/S		
	120.37		1.78		

130.00

Part No	PQD 1300 1090 081				
Groove Dimension	ØA	\times	ØB	\times	F
	130.00		109.00		8.10
O-Ring Size	Ø	\times	C/S		
	108.00		7.00		
Lobe-Ring Size	Ø	\times	C/S		
	120.32		2.62		

135.00

Part No	PQD 1350 1140 081				
Groove Dimension	ØA	\times	ØB	\times	F
	135.00		114.00		8.10
O-Ring Size	Ø	\times	C/S		
	113.67		7.00		
Lobe-Ring Size	Ø	\times	C/S		
	126.67		2.62		

140.00

Part No	PQD 1400 1190 081				
Groove Dimension	ØA	\times	ØB	\times	F
	140.00		119.00		8.10
O-Ring Size	Ø	\times	C/S		
	116.84		7.00		
Lobe-Ring Size	Ø	\times	C/S		
	126.67		2.62		

150.00

Part No	PQD 1500 1290 081				
Groove Dimension	ØA	\times	ØB	\times	F
	150.00		129.00		8.10
O-Ring Size	Ø	\times	C/S		
	126.37		7.00		
Lobe-Ring Size	Ø	\times	C/S		
	139.37		2.62		

160.00

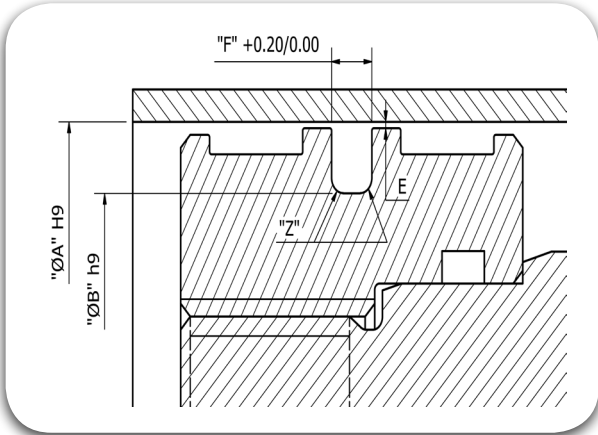
Part No	PQD 1600 1390 081				
Groove Dimension	ØA	\times	ØB	\times	F
	160.00		139.00		8.10
O-Ring Size	Ø	\times	C/S		
	135.89		7.00		
Lobe-Ring Size	Ø	\times	C/S		
	145.72		2.62		

170.00

Part No	PQD 1700 1490 081		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	170.00	149.00	8.10
O-Ring Size	\varnothing 145.42	$\times \varnothing$ 7.00	
Lobe-Ring Size	\varnothing 158.42	$\times \varnothing$ 2.62	

180.00

Part No	PQD 1800 1590 081		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	180.00	159.00	8.10
O-Ring Size	\varnothing 158.12	$\times \varnothing$ 7.00	
Lobe-Ring Size	\varnothing 171.11	$\times \varnothing$ 2.62	



190.00

Part No	PQD 1900 1690 081		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	190.00	169.00	8.10
O-Ring Size	\varnothing 164.47	$\times \varnothing$ 7.00	
Lobe-Ring Size	\varnothing 177.47	$\times \varnothing$ 2.62	

200.00

Part No	PQD 2000 1790 081		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	200.00	179.00	8.10
O-Ring Size	\varnothing 177.17	$\times \varnothing$ 7.00	
Lobe-Ring Size	\varnothing 190.17	$\times \varnothing$ 2.62	

210.00

Part No	PQD 2100 1890 081		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	210.00	189.00	8.10
O-Ring Size	\varnothing 183.52	$\times \varnothing$ 7.00	
Lobe-Ring Size	\varnothing 196.52	$\times \varnothing$ 2.62	

220.00

Part No	PQD 2200 1990 081		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	220.00	199.00	8.10
O-Ring Size	\varnothing 196.22	$\times \varnothing$ 7.00	
Lobe-Ring Size	\varnothing 202.87	$\times \varnothing$ 2.62	

230.00

Part No	PQD 2300 2090 081		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	230.00	209.00	8.10
O-Ring Size	\varnothing 208.92	$\times \varnothing$ 7.00	
Lobe-Ring Size	\varnothing 215.57	$\times \varnothing$ 2.62	

240.00

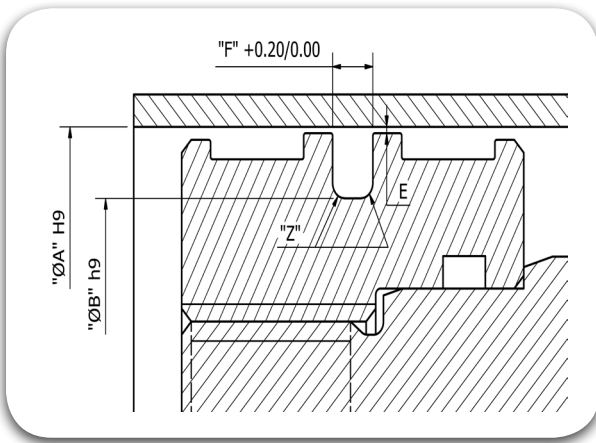
Part No	PQD 2400 2190 081		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	240.00	219.00	8.10
O-Ring Size	\varnothing 215.27	$\times \varnothing$ 7.00	
Lobe-Ring Size	\varnothing 221.92	$\times \varnothing$ 2.62	

250.00

Part No	PQD 2500 2290 081		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	250.00	229.00	8.10
O-Ring Size	\varnothing 227.97	$\times \varnothing$ 7.00	
Lobe-Ring Size	\varnothing 234.62	$\times \varnothing$ 2.62	

250.00

Part No	PQD 2500 2250 081		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	250.00	225.50	8.10
O-Ring Size	\varnothing 227.97	$\times \varnothing$ 7.00	
Lobe-Ring Size	\varnothing 234.62	$\times \varnothing$ 2.62	



280.00

Part No	PQD 2800 2520 095		
Groove Dimension	ØA	ØB	F
	280.00	252.00	9.50
O-Ring Size	Ø 250.00	C/S 8.40	
Lobe-Ring Size	Ø 266.29	C/S 3.53	

300.00

Part No	PQD 3000 2720 095		
Groove Dimension	ØA	ØB	F
	300.00	272.00	9.50
O-Ring Size	Ø 270.00	C/S 8.40	
Lobe-Ring Size	Ø 278.99	C/S 3.53	

310.00

Part No	PQD 3100 2820 095		
Groove Dimension	ØA	ØB	F
	310.00	282.00	9.50
O-Ring Size	Ø 280.00	C/S 8.40	
Lobe-Ring Size	Ø 291.69	C/S 3.53	

320.00

Part No	PQD 3200 2920 095		
Groove Dimension	ØA	ØB	F
	320.00	292.00	9.50
O-Ring Size	Ø 290.00	C/S 8.40	
Lobe-Ring Size	Ø 304.39	C/S 3.53	

350.00

Part No	PQD 3500 3220 095		
Groove Dimension	ØA	ØB	F
	350.00	322.00	9.50
O-Ring Size	Ø 320.00	C/S 8.40	
Lobe-Ring Size	Ø 329.79	C/S 3.53	

400.00

Part No	PQD 4000 3720 095		
Groove Dimension	ØA	ØB	F
	400.00	372.00	9.50
O-Ring Size	Ø 370.00	C/S 8.40	
Lobe-Ring Size	Ø 380.59	C/S 3.53	

420.00

Part No	PQD 4200 3930 095		
Groove Dimension	ØA	ØB	F
	420.00	392.00	9.50
O-Ring Size	Ø 390.00	C/S 8.40	
Lobe-Ring Size	Ø 380.59	C/S 3.53	

450.00

Part No	PQD 4500 4220 095		
Groove Dimension	ØA	ØB	F
	450.00	422.00	9.50
O-Ring Size	Ø 420.00	C/S 8.40	
Lobe-Ring Size	Ø 430.66	C/S 3.53	

480.00

Part No	PQD 4800 4450 115		
Groove Dimension	ØA	ØB	F
	480.00	445.00	11.50
O-Ring Size	Ø 444.00	C/S 10.00	
Lobe-Ring Size	Ø 456.06	C/S 5.33	

500.00

Part No	PQD 5000 4650 115		
Groove Dimension	ØA	ØB	F
	500.00	465.00	11.50
O-Ring Size	Ø 464.00	C/S 10.00	
Lobe-Ring Size	Ø 456.06	C/S 5.33	

600.00

Part No

PQD 6000 5650 115

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F
600.00		565.00		11.50

O-Ring Size

\varnothing	564.00	x	$\frac{E}{C}$	10.00
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Lobe-Ring Size

\varnothing	557.58	x	$\frac{E}{C}$	5.33
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700.00

Part No

PQD 7000 6650 115

Groove Dimension

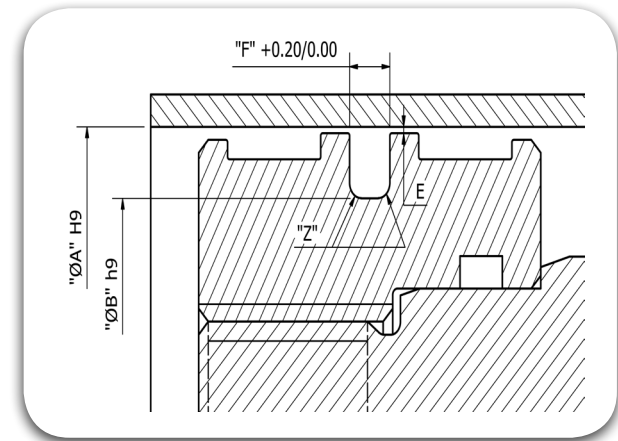
$\varnothing A$	x	$\varnothing B$	x	F
700.00		665.00		11.50

O-Ring Size

\varnothing	664.00	x	$\frac{E}{C}$	10.00
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Lobe-Ring Size

\varnothing	658.88	x	$\frac{E}{C}$	5.33
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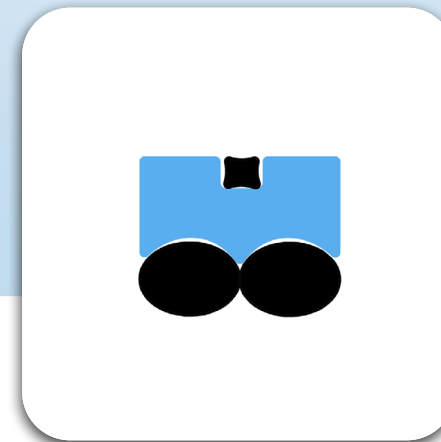
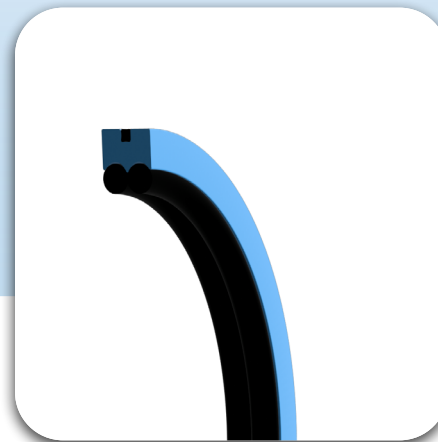
Piston Seals

PQE



TRIADA
TECHNOLOGIES







#SealingExcellence



Description

The PQE is a Double Acting Seal made of four sealing elements, the dynamic seal being a ring in TRIALON[®] (filled PTFE) with the TRIAFLEX[®] (Lobe Ring), which arrests the movement of fluid through a seal with a very low friction, while the static sealing is through two TRIAFLEX[®] (O-Rings), also acting as an energizer to improve the efficiency. Presence of two O-Rings provides improved static sealing as well as better stability for the seal. Depending on the application, media, cycle speed etc., the PTFE compound is selected and the O-Ring & Lobe Ring compound is selected considering the media compatibility, temperature etc.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø16.00 – Ø700.00
 Standard material	TRIALON [®] T415 (Bronze Filled PTFE) with Energiser & Lobe ring in TRIAFLEX [®] T571 (NBR 70 Shores) (Other Compounds available, so as to suit the Application Conditions).
 Temperature(°C)	-40°C to 200°C (Based on Elastomer Material).
 Speed	≤ 2.00 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air etc, depending on Seal Compounds selected.
 Pressure	≤ 400 bar

Material Details

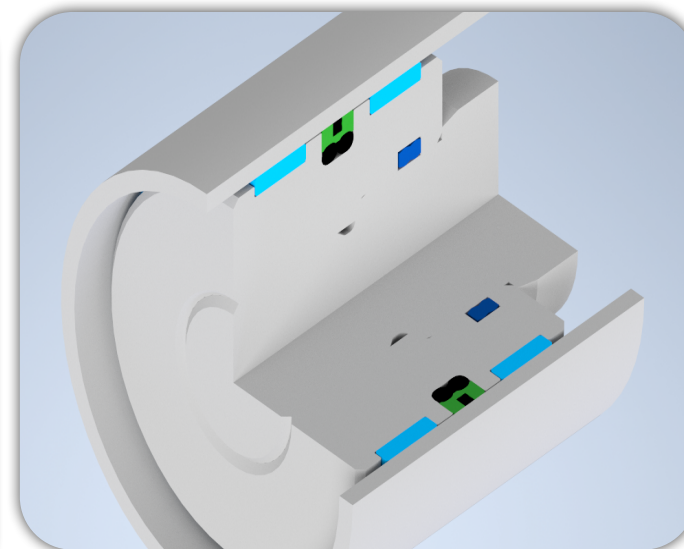
Seal Material	Seal Material Code	O-Ring / Lobe Ring Material	O-Ring / Lobe Ring Material / Code
TRIALON® Bronze Filled PTFE	T415	TRIAFLEX® NBR 70	N (T571)
TRIALON® Carbon Filled PTFE	T417	TRIAFLEX® FKM 75	F (T675)
		TRIAFLEX® EPDM 70	E (T771)
		TRIAFLEX® HNBR 70	H (T531)

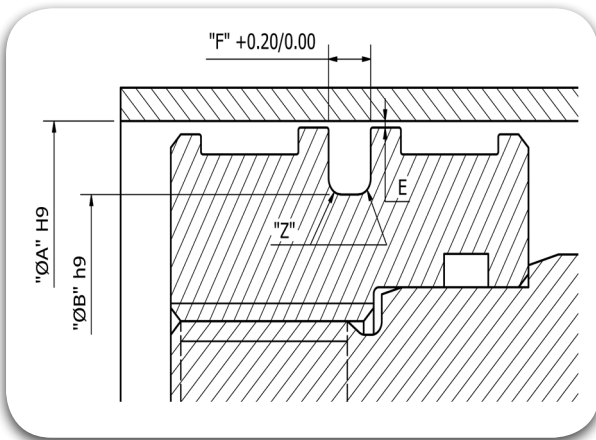
Nomenclature

Part No	PQE	0160	0050	042	T415	N
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	O-Ring / Lobe Ring Material Code	

Groove Details

Bore Diameter "A" H9 Standard Range	Radius "Z" max	Radial Clearance "E" max			
		<20 bar	<100 bar	<200 bar	<400 bar
6.00 - 13.90	0.20	0.20	0.10	0.08	0.05
14.00 - 24.90	0.40	0.25	0.15	0.10	0.07
25.00 - 45.90	0.60	0.35	0.20	0.15	0.08
46.00 - 124.90	1.00	0.50	0.25	0.20	0.10
125.00 - 999.90	1.40	0.60	0.30	0.25	0.12
1000.00 - 2700.00	2.00	0.90	0.50	0.40	0.20





40.00

Part No	PQE 0400 0300 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	40.00 x 30.00 x 6.30	
O-Ring Size	\varnothing x \varnothing x C/S	29.82 x 2.62	
Lobe-Ring Size	\varnothing x \varnothing x C/S	34.65 x 1.78	

42.00

Part No	PQE 0420 0320 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	42.00 x 32.00 x 6.30	
O-Ring Size	\varnothing x \varnothing x C/S	31.42 x 2.62	
Lobe-Ring Size	\varnothing x \varnothing x C/S	37.82 x 1.78	

45.00

Part No	PQE 0450 0350 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	45.00 x 35.00 x 6.30	
O-Ring Size	\varnothing x \varnothing x C/S	34.59 x 2.62	
Lobe-Ring Size	\varnothing x \varnothing x C/S	37.82 x 1.78	

48.00

Part No	PQE 0480 0380 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	48.00 x 38.00 x 6.30	
O-Ring Size	\varnothing x \varnothing x C/S	37.77 x 2.62	
Lobe-Ring Size	\varnothing x \varnothing x C/S	41.00 x 1.78	

50.00

Part No	PQE 0500 0400 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	50.00 x 40.00 x 6.30	
O-Ring Size	\varnothing x \varnothing x C/S	39.34 x 2.62	
Lobe-Ring Size	\varnothing x \varnothing x C/S	44.17 x 1.78	

52.00

Part No	PQE 0520 0420 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	52.00 x 42.00 x 6.30	
O-Ring Size	\varnothing x \varnothing x C/S	40.94 x 2.62	
Lobe-Ring Size	\varnothing x \varnothing x C/S	47.35 x 1.78	

55.00

Part No	PQE 0550 0450 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	55.00 x 45.00 x 6.30	
O-Ring Size	\varnothing x \varnothing x C/S	44.12 x 2.62	
Lobe-Ring Size	\varnothing x \varnothing x C/S	50.52 x 1.78	

60.00

Part No	PQE 0600 0500 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	60.00 x 50.00 x 6.30	
O-Ring Size	\varnothing x \varnothing x C/S	48.90 x 2.62	
Lobe-Ring Size	\varnothing x \varnothing x C/S	53.70 x 1.78	

63.00

Part No	PQE 0630 0530 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	63.00 x 53.00 x 6.30	
O-Ring Size	\varnothing x \varnothing x C/S	52.07 x 2.62	
Lobe-Ring Size	\varnothing x \varnothing x C/S	56.87 x 1.78	

65.00

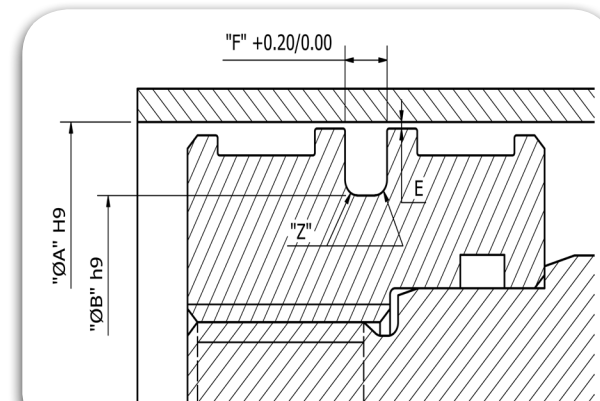
Part No	PQE 0650 0550 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F	65.00 x 55.00 x 6.30	
O-Ring Size	\varnothing x \varnothing x C/S	53.64 x 2.62	
Lobe-Ring Size	\varnothing x \varnothing x C/S	60.05 x 1.78	

70.00

Part No	PQE 0700 0600 063		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	70.00	60.00	6.30
O-Ring Size	\varnothing 58.42	$\times \frac{CS}{CS}$ 2.62	
Lobe-Ring Size	\varnothing 63.22	$\times \frac{CS}{CS}$ 1.78	

75.00

Part No	PQE 0750 0650 063		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	75.00	65.00	6.30
O-Ring Size	\varnothing 63.17	$\times \frac{CS}{CS}$ 2.62	
Lobe-Ring Size	\varnothing 69.57	$\times \frac{CS}{CS}$ 1.78	



80.00

Part No	PQE 0800 0670 083		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	80.00	67.00	8.30
O-Ring Size	\varnothing 66.27	$\times \frac{CS}{CS}$ 3.53	
Lobe-Ring Size	\varnothing 71.12	$\times \frac{CS}{CS}$ 1.78	

85.00

Part No	PQE 0850 0720 083		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	85.00	72.00	8.30
O-Ring Size	\varnothing 69.44	$\times \frac{CS}{CS}$ 3.53	
Lobe-Ring Size	\varnothing 75.87	$\times \frac{CS}{CS}$ 2.62	

90.00

Part No	PQE 0900 0770 083		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	90.00	77.00	8.30
O-Ring Size	\varnothing 75.79	$\times \frac{CS}{CS}$ 3.53	
Lobe-Ring Size	\varnothing 82.22	$\times \frac{CS}{CS}$ 2.62	

95.00

Part No	PQE 0950 0820 083		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	95.00	82.00	8.30
O-Ring Size	\varnothing 78.97	$\times \frac{CS}{CS}$ 3.53	
Lobe-Ring Size	\varnothing 82.22	$\times \frac{CS}{CS}$ 2.62	

100.00

Part No	PQE 1000 0870 083		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	100.00	87.00	8.30
O-Ring Size	\varnothing 85.32	$\times \frac{CS}{CS}$ 3.53	
Lobe-Ring Size	\varnothing 88.57	$\times \frac{CS}{CS}$ 2.62	

105.00

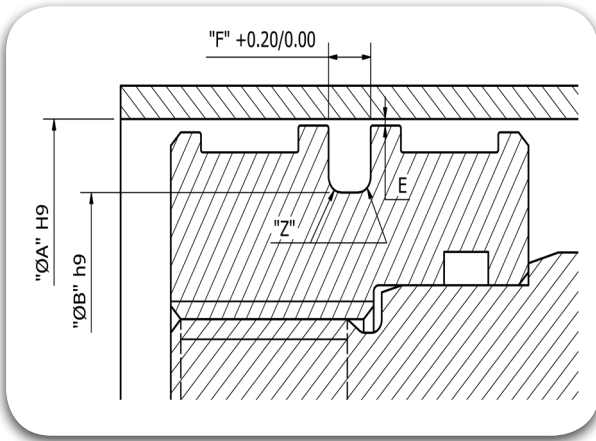
Part No	PQE 1050 0920 083		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	105.00	92.00	8.30
O-Ring Size	\varnothing 91.67	$\times \frac{CS}{CS}$ 3.53	
Lobe-Ring Size	\varnothing 94.92	$\times \frac{CS}{CS}$ 2.62	

110.00

Part No	PQE 1100 0970 083		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	110.00	97.00	8.30
O-Ring Size	\varnothing 94.84	$\times \frac{CS}{CS}$ 3.53	
Lobe-Ring Size	\varnothing 101.27	$\times \frac{CS}{CS}$ 2.62	

115.00

Part No	PQE 1150 1020 083		
Groove Dimension	$\varnothing A$	$\times \varnothing B$	$\times F$
	115.00	102.00	8.30
O-Ring Size	\varnothing 101.19	$\times \frac{CS}{CS}$ 3.53	
Lobe-Ring Size	\varnothing 107.62	$\times \frac{CS}{CS}$ 2.62	



120.00

Part No	PQE 1200 1070 083		
Groove Dimension	ØA	ØB	F
	120.00	107.00	8.30
O-Ring Size	ID 104.37	CS 3.53	
Lobe-Ring Size	ID 107.62	CS 2.62	

125.00

Part No	PQE 1250 1120 083		
Groove Dimension	ØA	ØB	F
	125.00	112.00	8.30
O-Ring Size	ID 110.72	CS 3.53	
Lobe-Ring Size	ID 113.97	CS 2.62	

130.00

Part No	PQE 1300 1170 083		
Groove Dimension	ØA	ØB	F
	130.00	117.00	8.30
O-Ring Size	ID 113.89	CS 3.53	
Lobe-Ring Size	ID 120.32	CS 2.62	

135.00

Part No	PQE 1350 1170 123		
Groove Dimension	ØA	ØB	F
	135.00	117.00	12.30
O-Ring Size	ID 113.67	CS 5.33	
Lobe-Ring Size	ID 123.42	CS 3.53	

140.00

Part No	PQE 1400 1220 123		
Groove Dimension	ØA	ØB	F
	140.00	122.00	12.30
O-Ring Size	ID 120.02	CS 5.33	
Lobe-Ring Size	ID 126.60	CS 3.53	

150.00

Part No	PQE 1500 1320 123		
Groove Dimension	ØA	ØB	F
	150.00	132.00	12.30
O-Ring Size	ID 129.54	CS 5.33	
Lobe-Ring Size	ID 136.12	CS 3.53	

160.00

Part No	PQE 1600 1420 123		
Groove Dimension	ØA	ØB	F
	160.00	142.00	12.30
O-Ring Size	ID 139.07	CS 5.33	
Lobe-Ring Size	ID 145.65	CS 3.53	

170.00

Part No	PQE 1700 1520 123		
Groove Dimension	ØA	ØB	F
	170.00	152.00	12.30
O-Ring Size	ID 148.49	CS 5.33	
Lobe-Ring Size	ID 158.35	CS 3.53	

180.00

Part No	PQE 1800 1620 123		
Groove Dimension	ØA	ØB	F
	180.00	162.00	12.30
O-Ring Size	ID 158.12	CS 5.33	
Lobe-Ring Size	ID 164.70	CS 3.53	

190.00

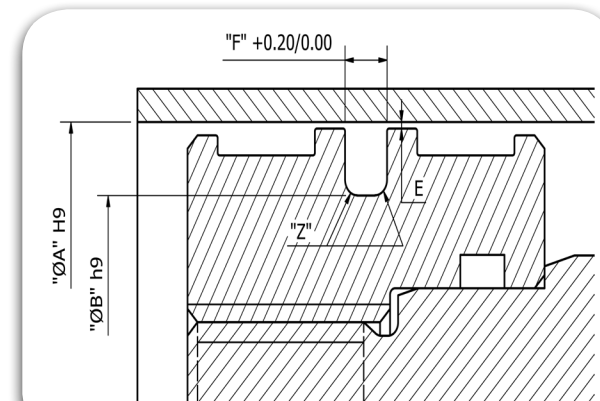
Part No	PQE 1900 1720 123		
Groove Dimension	ØA	ØB	F
	190.00	172.00	12.30
O-Ring Size	ID 170.82	CS 5.33	
Lobe-Ring Size	ID 177.40	CS 3.53	

200.00

Part No	PQE 2000 1820 123		
Groove Dimension	$\varnothing A$	x $\varnothing B$	x F
	200.00	182.00	12.30
O-Ring Size	$\varnothing 177.17$ x $\varnothing 5.33$		
Lobe-Ring Size	$\varnothing 183.75$ x $\varnothing 3.53$		

210.00

Part No	PQE 2100 1920 123		
Groove Dimension	$\varnothing A$	x $\varnothing B$	x F
	210.00	192.00	12.30
O-Ring Size	$\varnothing 189.87$ x $\varnothing 5.33$		
Lobe-Ring Size	$\varnothing 196.45$ x $\varnothing 3.53$		



220.00

Part No	PQE 2200 2020 123		
Groove Dimension	$\varnothing A$	x $\varnothing B$	x F
	220.00	202.00	12.30
O-Ring Size	$\varnothing 196.22$ x $\varnothing 5.33$		
Lobe-Ring Size	$\varnothing 202.80$ x $\varnothing 3.53$		

230.00

Part No	PQE 2300 2120 123		
Groove Dimension	$\varnothing A$	x $\varnothing B$	x F
	230.00	212.00	12.30
O-Ring Size	$\varnothing 208.92$ x $\varnothing 5.33$		
Lobe-Ring Size	$\varnothing 215.50$ x $\varnothing 3.53$		

240.00

Part No	PQE 2400 2220 123		
Groove Dimension	$\varnothing A$	x $\varnothing B$	x F
	240.00	222.00	12.30
O-Ring Size	$\varnothing 221.62$ x $\varnothing 5.33$		
Lobe-Ring Size	$\varnothing 221.85$ x $\varnothing 3.53$		

250.00

Part No	PQE 2500 2320 123		
Groove Dimension	$\varnothing A$	x $\varnothing B$	x F
	250.00	232.00	12.30
O-Ring Size	$\varnothing 227.97$ x $\varnothing 5.33$		
Lobe-Ring Size	$\varnothing 234.55$ x $\varnothing 3.53$		

280.00

Part No	PQE 2800 2620 123		
Groove Dimension	$\varnothing A$	x $\varnothing B$	x F
	280.00	262.00	12.30
O-Ring Size	$\varnothing 253.37$ x $\varnothing 5.33$		
Lobe-Ring Size	$\varnothing 266.29$ x $\varnothing 3.53$		

300.00

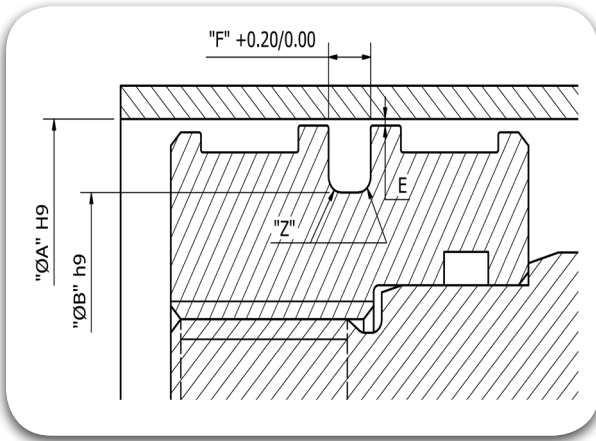
Part No	PQE 3000 2820 123		
Groove Dimension	$\varnothing A$	x $\varnothing B$	x F
	300.00	282.00	12.30
O-Ring Size	$\varnothing 278.77$ x $\varnothing 5.33$		
Lobe-Ring Size	$\varnothing 278.99$ x $\varnothing 3.53$		

320.00

Part No	PQE 3200 3020 123		
Groove Dimension	$\varnothing A$	x $\varnothing B$	x F
	320.00	302.00	12.30
O-Ring Size	$\varnothing 291.47$ x $\varnothing 5.33$		
Lobe-Ring Size	$\varnothing 304.39$ x $\varnothing 3.53$		

350.00

Part No	PQE 3500 3320 123		
Groove Dimension	$\varnothing A$	x $\varnothing B$	x F
	350.00	332.00	12.30
O-Ring Size	$\varnothing 329.57$ x $\varnothing 5.33$		
Lobe-Ring Size	$\varnothing 329.79$ x $\varnothing 3.53$		



400.00

Part No	PQE 4000 3820 123		
Groove Dimension	ØA	\times ØB	\times F
	400.00	382.00	12.30
O-Ring Size	ID 380.37	\times CS 5.33	
Lobe-Ring Size	ID 380.59	\times CS 3.53	

420.00

Part No	PQE 4200 4020 123		
Groove Dimension	ØA	\times ØB	\times F
	420.00	402.00	12.30
O-Ring Size	ID 405.26	\times CS 5.33	
Lobe-Ring Size	ID 380.59	\times CS 3.53	

450.00

Part No	PQE 4500 4320 123		
Groove Dimension	ØA	\times ØB	\times F
	450.00	432.00	12.30
O-Ring Size	ID 430.66	\times CS 5.33	
Lobe-Ring Size	ID 430.66	\times CS 3.53	

480.00

Part No	PQE 4800 4490 163		
Groove Dimension	ØA	\times ØB	\times F
	480.00	449.00	16.30
O-Ring Size	ID 443.36	\times CS 7.00	
Lobe-Ring Size	ID 456.06	\times CS 3.53	

500.00

Part No	PQE 5000 4690 163		
Groove Dimension	ØA	\times ØB	\times F
	500.00	469.00	16.30
O-Ring Size	ID 468.76	\times CS 7.00	
Lobe-Ring Size	ID 456.06	\times CS 3.53	

600.00

Part No	PQE 6000 5690 163		
Groove Dimension	ØA	\times ØB	\times F
	600.00	569.00	16.30
O-Ring Size	ID 557.66	\times CS 7.00	
Lobe-Ring Size	ID 557.58	\times CS 3.53	

700.00

Part No	PQE 7000 6690 163		
Groove Dimension	ØA	\times ØB	\times F
	700.00	669.00	16.30
O-Ring Size	ID 658.88	\times CS 7.00	
Lobe-Ring Size	ID 658.88	\times CS 3.53	

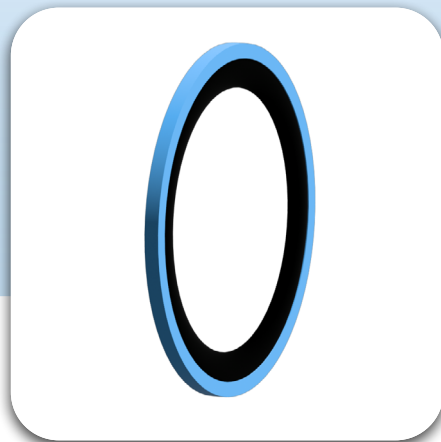


Piston Seals

PED









#SealingExcellence



Description

The PED Seal is a bidirectional seal and composed of two elements. The dynamic seal is a ring in TRIALON[®] (filled PTFE) while the static seal is an TRIAFLEX[®] (O-Ring) also acting as energizer. Depending on the application, media, cycle speed etc., the PTFE compound is selected and the O-Ring compound is selected considering the media compatibility, temperature etc.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø20.00 – Ø 2500.00
 Standard material	TRIALON [®] T415 (Bronze Filled PTFE) with Energiser in TRIAFLEX [®] T571 (NBR 70 Shores) (Other Compounds available, so as to suit the Application Conditions).
 Temperature(°C)	-40°C to 200°C (Based on Elastomer Material)
 Speed	≤ 15.0 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air etc depending on Seal Compounds selected
 Pressure	≤ 350 bar

Material Details

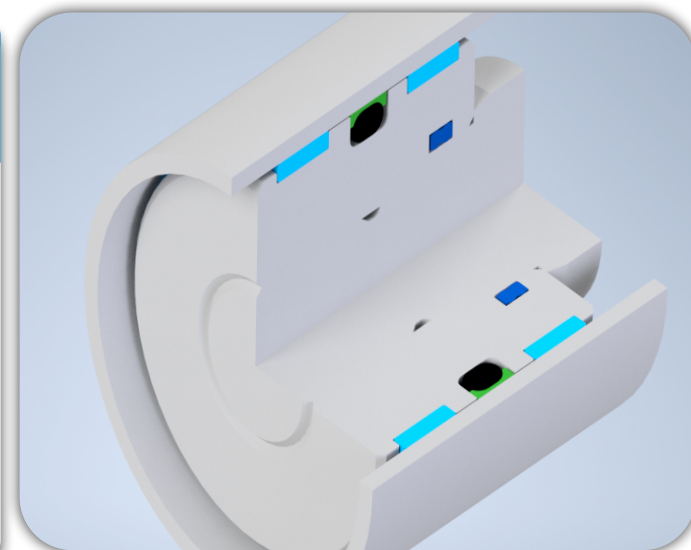
Seal Material	Seal Material Code	O-Ring Material	O-Ring Material / Code
TRIALON® Bronze Filled PTFE	T415	TRIAFLEX® NBR 70	N (T571)
TRIALON® Carbon Filled PTFE	T417	TRIAFLEX® FKM 75	F (T675)
		TRIAFLEX® EPDM 70	E (T771)
		TRIAFLEX® HNBR 70	H (T531)

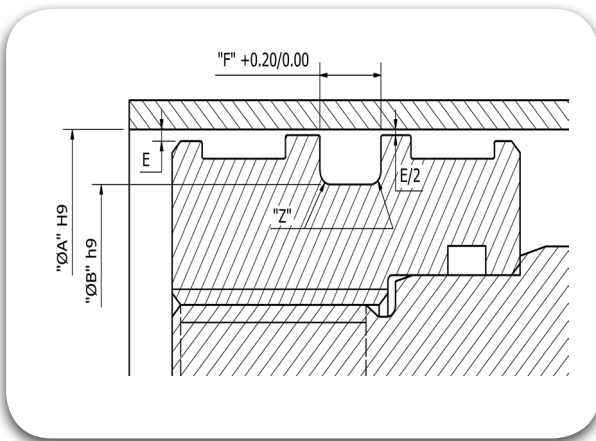
Nomenclature

Part No	PED	0240	0195	036	T415	N
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	O-Ring Material Code	

Groove Details

Bore Diameter "A" H9 Standard Range	Radius "Z" max	Radial Clearance "E" max			
		<20 bar	<100 bar	<200 bar	<400 bar
5.00 - 13.90	0.40	0.10	0.10	0.08	0.05
14.00 - 24.90	0.40	0.15	0.15	0.10	0.07
25.00 - 45.90	0.60	0.25	0.20	0.15	0.08
46.00 - 124.90	0.80	0.35	0.25	0.20	0.10
125.00 - 999.90	1.00	0.60	0.40	0.30	0.20
1000.00 - 2700.00	2.00	0.90	0.60	0.50	0.25





6.00

Part No PED 0060 0031 024

Groove Dimension ØA x ØB x F
6.00 x 3.10 x 2.40

O-Ring Size Ø 2.57 x CS 1.78

8.00

Part No PED 0080 0051 024

Groove Dimension ØA x ØB x F
8.00 x 5.10 x 2.40

O-Ring Size Ø 4.47 x CS 1.78

9.00

Part No PED 0090 0061 024

Groove Dimension ØA x ØB x F
9.00 x 6.10 x 2.40

O-Ring Size Ø 5.28 x CS 1.78

10.00

Part No PED 0100 0071 024

Groove Dimension ØA x ØB x F
10.00 x 7.10 x 2.40

O-Ring Size Ø 6.07 x CS 1.78

11.00

Part No PED 0110 0081 024

Groove Dimension ØA x ØB x F
11.00 x 8.10 x 2.40

O-Ring Size Ø 7.65 x CS 1.78

12.00

Part No PED 0120 0091 024

Groove Dimension ØA x ØB x F
12.00 x 9.10 x 2.40

O-Ring Size Ø 8.50 x CS 1.80

12.70

Part No PED 0127 0098 024

Groove Dimension ØA x ØB x F
12.70 x 9.80 x 2.40

O-Ring Size Ø 9.25 x CS 1.78

14.00

Part No PED 0140 0095 036

Groove Dimension ØA x ØB x F
14.00 x 9.50 x 3.60

O-Ring Size Ø 9.19 x CS 2.62

15.00

Part No PED 0150 0105 036

Groove Dimension ØA x ØB x F
15.00 x 10.50 x 3.60

O-Ring Size Ø 9.19 x CS 2.62

16.00

Part No PED 0160 0115 036

Groove Dimension ØA x ØB x F
16.00 x 11.50 x 3.60

O-Ring Size Ø 10.77 x CS 2.62

16.00

Part No PED 0160 0135 036

Groove Dimension ØA x ØB x F
16.00 x 13.50 x 3.60

O-Ring Size Ø 12.37 x CS 2.62

20.00

Part No PED 0200 0155 036

Groove Dimension ØA x ØB x F
20.00 x 15.50 x 3.60

O-Ring Size Ø 13.94 x CS 2.62

22.00

Part No PED 0220 0175 036

Groove Dimension ØA x ØB x F
22.00 x 17.50 x 3.60

O-Ring Size Ø 17.12 x CS 2.62

24.00

Part No PED 0240 0195 036

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
24.00 x 19.50 x 3.60

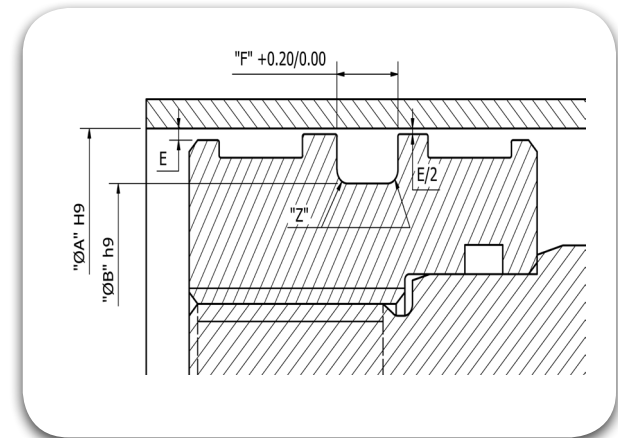
O-Ring Size \varnothing 18.72 x \varnothing 2.62

25.00

Part No PED 0250 0188 048

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
25.00 x 18.80 x 4.80

O-Ring Size \varnothing 18.00 x \varnothing 3.55



25.00

Part No PED 0250 0192 048

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
25.00 x 19.20 x 4.80

O-Ring Size \varnothing 18.54 x \varnothing 3.55

27.00

Part No PED 0270 0208 048

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
27.00 x 20.80 x 4.80

O-Ring Size \varnothing 20.22 x \varnothing 3.55

28.00

Part No PED 0280 0218 048

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
28.00 x 21.80 x 4.80

O-Ring Size \varnothing 20.22 x \varnothing 3.55

30.00

Part No PED 0300 0238 048

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
30.00 x 23.80 x 4.80

O-Ring Size \varnothing 23.40 x \varnothing 3.55

32.00

Part No PED 0320 0258 048

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
32.00 x 25.80 x 4.80

O-Ring Size \varnothing 25.00 x \varnothing 3.55

35.00

Part No PED 0350 0288 048

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
35.00 x 28.80 x 4.80

O-Ring Size \varnothing 28.17 x \varnothing 3.55

40.00

Part No PED 0400 0338 048

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
40.00 x 33.80 x 4.80

O-Ring Size \varnothing 32.92 x \varnothing 3.55

42.00

Part No PED 0420 0358 048

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
42.00 x 35.80 x 4.80

O-Ring Size \varnothing 34.52 x \varnothing 3.55

45.00

Part No PED 0450 0388 048

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
45.00 x 38.80 x 4.80

O-Ring Size \varnothing 37.70 x \varnothing 3.55

48.00

Part No PED 0480 0386 071

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
48.00 x 38.60 x 7.10

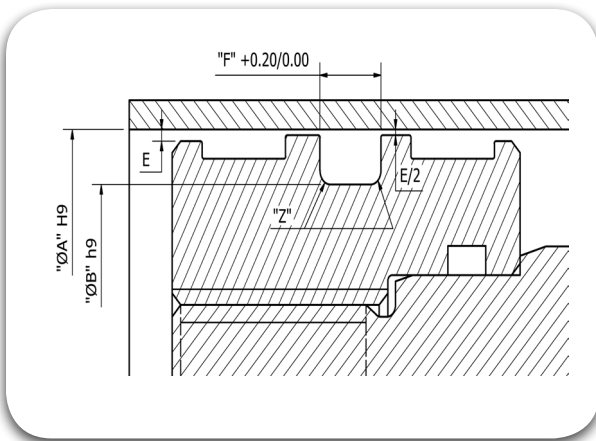
O-Ring Size \varnothing 37.47 x \varnothing 5.33

50.00

Part No PED 0500 0406 071

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 40.60 x 7.10

O-Ring Size \varnothing 40.00 x \varnothing 5.33



50.00

Part No PED 0500 0414 071

Groove Dimension ØA x ØB x F
50.00 x 41.40 x 7.10

O-Ring Size Ø 40.64 x CS 5.33

52.00

Part No PED 0520 0426 071

Groove Dimension ØA x ØB x F
52.00 x 42.60 x 7.10

O-Ring Size Ø 40.64 x CS 5.33

55.00

Part No PED 0550 0456 071

Groove Dimension ØA x ØB x F
55.00 x 45.60 x 7.10

O-Ring Size Ø 43.82 x CS 5.33

56.00

Part No PED 0560 0466 071

Groove Dimension ØA x ØB x F
56.00 x 46.60 x 7.10

O-Ring Size Ø 43.82 x CS 5.33

60.00

Part No PED 0600 0506 071

Groove Dimension ØA x ØB x F
60.00 x 50.60 x 7.10

O-Ring Size Ø 50.17 x CS 5.33

63.00

Part No PED 0630 0536 071

Groove Dimension ØA x ØB x F
63.00 x 53.60 x 7.10

O-Ring Size Ø 53.34 x CS 5.33

65.00

Part No PED 0650 0556 071

Groove Dimension ØA x ØB x F
65.00 x 55.60 x 7.10

O-Ring Size Ø 53.34 x CS 5.33

70.00

Part No PED 0700 0606 071

Groove Dimension ØA x ØB x F
70.00 x 60.60 x 7.10

O-Ring Size Ø 59.69 x CS 5.33

75.00

Part No PED 0750 0656 071

Groove Dimension ØA x ØB x F
75.00 x 65.60 x 7.10

O-Ring Size Ø 62.87 x CS 5.33

80.00

Part No PED 0800 0706 071

Groove Dimension ØA x ØB x F
80.00 x 70.60 x 7.10

O-Ring Size Ø 69.22 x CS 5.33

85.00

Part No PED 0850 0756 071

Groove Dimension ØA x ØB x F
85.00 x 75.60 x 7.10

O-Ring Size Ø 72.39 x CS 5.33

90.00

Part No PED 0900 0806 071

Groove Dimension ØA x ØB x F
90.00 x 80.60 x 7.10

O-Ring Size Ø 78.74 x CS 5.33

95.00

Part No PED 0950 0856 071

Groove Dimension ØA x ØB x F
95.00 x 85.60 x 7.10

O-Ring Size Ø 81.92 x CS 5.33

100.00

Part No

PED 1000 0906 071

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
100.00 x 90.60 x 7.10

O-Ring Size

\varnothing 88.27 x \varnothing 5.33

105.00

Part No

PED 1050 1006 071

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
105.00 x 100.60 x 7.10

O-Ring Size

\varnothing 97.79 x \varnothing 5.33

110.00

Part No

PED 1100 1056 071

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
110.00 x 105.60 x 7.10

O-Ring Size

\varnothing 104.14 x \varnothing 5.33

115.00

Part No

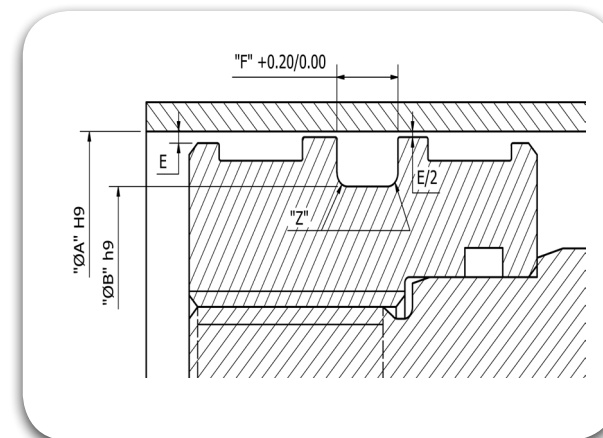
PED 1150 1106 071

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
115.00 x 110.60 x 7.10

O-Ring Size

\varnothing 107.32 x \varnothing 5.33



120.00

Part No

PED 1200 1128 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 112.80 x 9.50

O-Ring Size

\varnothing 113.67 x \varnothing 7.00

125.00

Part No

PED 1250 1178 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
125.00 x 117.80 x 9.50

O-Ring Size

\varnothing 116.84 x \varnothing 7.00

130.00

Part No

PED 1300 1228 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 122.80 x 9.50

O-Ring Size

\varnothing 120.02 x \varnothing 7.00

135.00

Part No

PED 1350 1278 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
135.00 x 127.80 x 9.50

O-Ring Size

\varnothing 126.37 x \varnothing 7.00

140.00

Part No

PED 1400 1378 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 137.80 x 9.50

O-Ring Size

\varnothing 135.89 x \varnothing 7.00

150.00

Part No

PED 1500 1478 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
150.00 x 147.80 x 9.50

O-Ring Size

\varnothing 145.42 x \varnothing 7.00

160.00

Part No

PED 1600 1578 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
160.00 x 157.80 x 9.50

O-Ring Size

\varnothing 151.77 x \varnothing 7.00

170.00

Part No

PED 1700 1678 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
170.00 x 167.80 x 9.50

O-Ring Size

\varnothing 164.47 x \varnothing 7.00

180.00

Part No

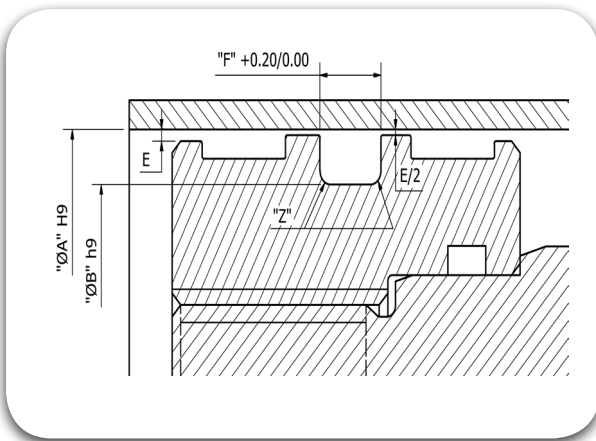
PED 1800 1778 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
180.00 x 177.80 x 9.50

O-Ring Size

\varnothing 177.17 x \varnothing 7.00



190.00

Part No	PED 1900 1878 095		
Groove Dimension	ØA	ØB	F
	190.00	187.80	9.50
O-Ring Size	Ø	CS	
	183.52	7.00	

200.00

Part No	PED 2000 1978 095		
Groove Dimension	ØA	ØB	F
	200.00	197.80	9.50
O-Ring Size	Ø	CS	
	196.22	7.00	

210.00

Part No	PED 2100 2078 095		
Groove Dimension	ØA	ØB	F
	210.00	207.80	9.50
O-Ring Size	Ø	CS	
	202.57	7.00	

220.00

Part No	PED 2200 2178 095		
Groove Dimension	ØA	ØB	F
	220.00	217.80	9.50
O-Ring Size	Ø	CS	
	215.27	7.00	

230.00

Part No	PED 2300 2278 095		
Groove Dimension	ØA	ØB	F
	230.00	227.80	9.50
O-Ring Size	Ø	CS	
	227.97	7.00	

240.00

Part No	PED 2400 2378 095		
Groove Dimension	ØA	ØB	F
	240.00	237.80	9.50
O-Ring Size	Ø	CS	
	236.00	7.00	

250.00

Part No	PED 2500 2678 095		
Groove Dimension	ØA	ØB	F
	250.00	267.80	9.50
O-Ring Size	Ø	CS	
	266.07	7.00	

280.00

Part No	PED 2800 2870 095		
Groove Dimension	ØA	ØB	F
	280.00	287.80	9.50
O-Ring Size	Ø	CS	
	278.77	7.00	

300.00

Part No	PED 3000 3078 095		
Groove Dimension	ØA	ØB	F
	300.00	307.80	9.50
O-Ring Size	Ø	CS	
	304.17	7.00	

320.00

Part No	PED 3200 3378 095		
Groove Dimension	ØA	ØB	F
	320.00	337.80	9.50
O-Ring Size	Ø	CS	
	329.57	7.00	

350.00

Part No	PED 3500 3878 095		
Groove Dimension	ØA	ØB	F
	350.00	387.80	9.50
O-Ring Size	Ø	CS	
	380.37	7.00	

400.00

Part No	PED 4000 4078 095		
Groove Dimension	ØA	ØB	F
	400.00	407.80	9.50
O-Ring Size	Ø	CS	
	405.26	7.00	

450.00

Part No	PED 4500 4378 095		
Groove Dimension	ØA	ØB	F
	450.00	437.80	9.50
O-Ring Size	Ø	CS	
	430.66	7.00	

480.00

Part No

PED 4800 4678 095

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F
480.00		467.80		9.50

O-Ring Size

\varnothing	456.06	x	\varnothing	7.00
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500.00

Part No

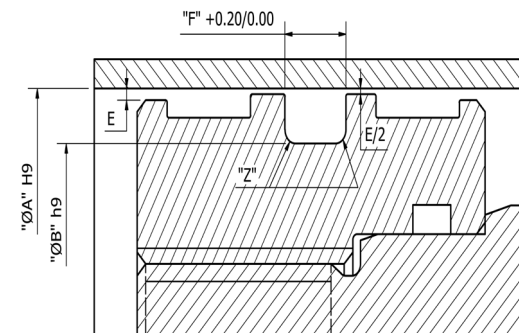
PED 5000 4878 095

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F
500.00		487.80		9.50

O-Ring Size

\varnothing	481.46	x	\varnothing	7.00
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Piston Seals

PES



TRIADA
TECHNOLOGIES







#SealingExcellence



Description

The PES Seal is a unidirectional seal and composed of two elements. The U-Shaped dynamic seal is a ring in TRIALON[®] (filled PTFE) while the energizer is a cantilever or helical or slant coil spring. Depending on the application, media, cycle speed etc., the PTFE compound is selected. Lesser area of contact offers reduced wear, thus increasing the life of the Seal.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø6.00 – Ø1500.00
 Standard material	TRIALON [®] T415 (Bronze Filled PTFE) with Stainless Steel Cantilever Spring.
 Temperature(°C)	-70°C to 260°C
 Speed	≤ 15.0 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air, Chemical & Gases etc depending on Seal Compounds selected.
 Pressure	≤ 2000 bar

Material Details

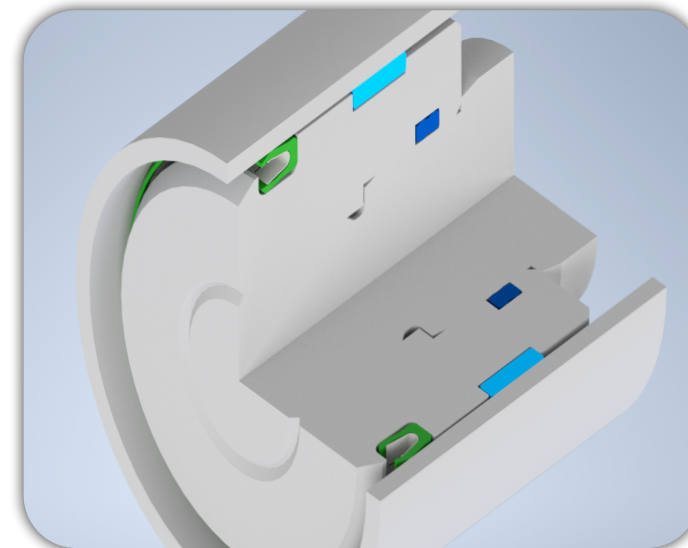
Seal Material	Seal Material Code	Spring Material Code	Spring Type Code
TRIALON® Bronze Filled PTFE	T415	S Stainless Steel	C Cantilever
TRIALON® Carbon Filled PTFE	T417	H Hastelloy	H Helical
		E Elgiloy	S Slant coil

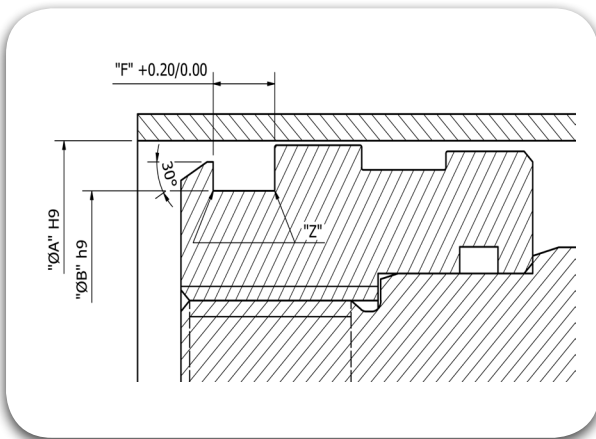
Nomenclature

Part No	PES	0480	0386	071	T415	S	H
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	Spring Material Code	Spring Type Code	

Groove Details

Bore Diameter "A" H9	Radial Clearance "E" max			
	<20 bar	<100 bar	<200 bar	<400 bar
Standard Range				
6.00 - 13.90	0.20	0.10	0.08	0.05
14.00 - 24.90	0.25	0.15	0.10	0.07
25.00 - 45.90	0.35	0.20	0.15	0.08
46.00 - 124.90	0.50	0.25	0.20	0.10
125.00 - 999.90	0.60	0.30	0.25	0.12
1000.00 - 2700.00	0.90	0.50	0.40	0.20





6.00

Part No PES 0060 0031 024

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
6.00 x 3.10 x 2.40

8.00

Part No PES 0080 0051 024

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
8.00 x 5.10 x 2.40

10.00

Part No PES 0100 0071 024

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
10.00 x 7.10 x 2.40

12.00

Part No PES 0120 0091 024

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
12.00 x 9.10 x 2.40

14.00

Part No PES 0140 0095 036

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
14.00 x 9.50 x 3.60

15.00

Part No PES 0150 0105 036

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
15.00 x 10.50 x 3.60

16.00

Part No PES 0160 0115 036

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
16.00 x 11.50 x 3.60

18.00

Part No PES 0180 0135 036

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
18.00 x 13.50 x 3.60

20.00

Part No PES 0200 0155 036

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
20.00 x 15.50 x 3.60

22.00

Part No PES 0220 0175 036

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
22.00 x 17.50 x 3.60

25.00

Part No PES 0250 0188 048

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 18.80 x 4.80

28.00

Part No PES 0280 0218 048

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
28.00 x 21.80 x 4.80

30.00

Part No PES 0300 0238 048

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
30.00 x 23.80 x 4.80

32.00

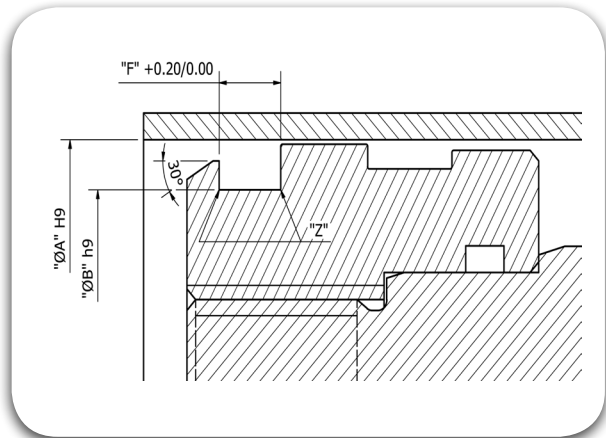
Part No PES 0320 0258 048

Groove Dimension $\varnothing A \times \varnothing B \times F$
32.00 x 25.80 x 4.80

35.00

Part No PES 0350 0288 048

Groove Dimension $\varnothing A \times \varnothing B \times F$
35.00 x 28.80 x 4.80



40.00

Part No PES 0400 0338 048

Groove Dimension $\varnothing A \times \varnothing B \times F$
40.00 x 33.80 x 4.80

42.00

Part No PES 0420 0358 048

Groove Dimension $\varnothing A \times \varnothing B \times F$
42.00 x 35.80 x 4.80

45.00

Part No PES 0450 0388 048

Groove Dimension $\varnothing A \times \varnothing B \times F$
45.00 x 38.80 x 4.80

48.00

Part No PES 0480 0386 071

Groove Dimension $\varnothing A \times \varnothing B \times F$
48.00 x 38.60 x 7.10

50.00

Part No PES 0500 0406 071

Groove Dimension $\varnothing A \times \varnothing B \times F$
50.00 x 40.60 x 7.10

52.00

Part No PES 0520 0426 071

Groove Dimension $\varnothing A \times \varnothing B \times F$
52.00 x 42.60 x 7.10

55.00

Part No PES 0550 0456 071

Groove Dimension $\varnothing A \times \varnothing B \times F$
55.00 x 45.60 x 7.10

56.00

Part No PES 0560 0466 071

Groove Dimension $\varnothing A \times \varnothing B \times F$
56.00 x 46.60 x 7.10

60.00

Part No PES 0600 0506 071

Groove Dimension $\varnothing A \times \varnothing B \times F$
60.00 x 50.60 x 7.10

63.00

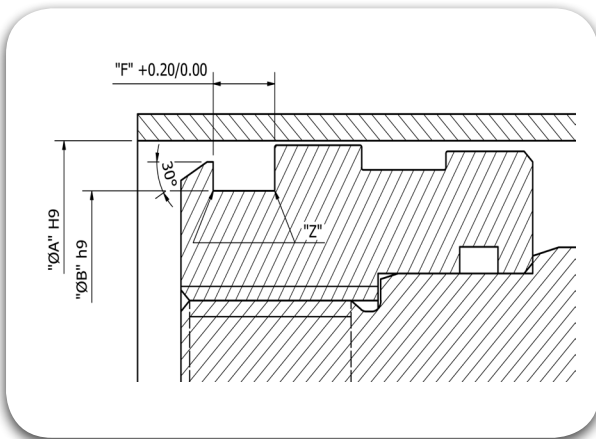
Part No PES 0630 0536 071

Groove Dimension $\varnothing A \times \varnothing B \times F$
63.00 x 53.60 x 7.10

65.00

Part No PES 0650 0556 071

Groove Dimension $\varnothing A \times \varnothing B \times F$
65.00 x 55.60 x 7.10



70.00

Part No PES 0700 0606 071

Groove Dimension $\frac{\text{ØA}}{70.00} \times \frac{\text{ØB}}{60.60} \times \frac{\text{F}}{7.10}$

75.00

Part No PES 0750 0656 071

Groove Dimension $\frac{\text{ØA}}{75.00} \times \frac{\text{ØB}}{65.60} \times \frac{\text{F}}{7.10}$

80.00

Part No PES 0800 0706 071

Groove Dimension $\frac{\text{ØA}}{80.00} \times \frac{\text{ØB}}{70.60} \times \frac{\text{F}}{7.10}$

85.00

Part No PES 0850 0756 071

Groove Dimension $\frac{\text{ØA}}{85.00} \times \frac{\text{ØB}}{75.60} \times \frac{\text{F}}{7.10}$

90.00

Part No PES 0900 0806 071

Groove Dimension $\frac{\text{ØA}}{90.00} \times \frac{\text{ØB}}{80.60} \times \frac{\text{F}}{7.10}$

95.00

Part No PES 0950 0856 071

Groove Dimension $\frac{\text{ØA}}{95.00} \times \frac{\text{ØB}}{85.60} \times \frac{\text{F}}{7.10}$

100.00

Part No PES 1000 0906 071

Groove Dimension $\frac{\text{ØA}}{100.00} \times \frac{\text{ØB}}{90.60} \times \frac{\text{F}}{7.10}$

105.00

Part No PES 1050 1006 071

Groove Dimension $\frac{\text{ØA}}{105.00} \times \frac{\text{ØB}}{100.60} \times \frac{\text{F}}{7.10}$

110.00

Part No PES 1100 1056 071

Groove Dimension $\frac{\text{ØA}}{110.00} \times \frac{\text{ØB}}{105.60} \times \frac{\text{F}}{7.10}$

115.00

Part No PES 1150 1106 071

Groove Dimension $\frac{\text{ØA}}{115.00} \times \frac{\text{ØB}}{110.60} \times \frac{\text{F}}{7.10}$

120.00

Part No PES 1200 1128 095

Groove Dimension $\frac{\text{ØA}}{120.00} \times \frac{\text{ØB}}{112.80} \times \frac{\text{F}}{9.50}$

125.00

Part No PES 1250 1178 095

Groove Dimension $\frac{\text{ØA}}{125.00} \times \frac{\text{ØB}}{117.80} \times \frac{\text{F}}{9.50}$

130.00

Part No PES 1300 1228 095

Groove Dimension $\frac{\text{ØA}}{130.00} \times \frac{\text{ØB}}{122.80} \times \frac{\text{F}}{9.50}$

135.00

Part No

PES 1350 1278 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
135.00 x 127.80 x 9.50

140.00

Part No

PES 1400 1378 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 137.80 x 9.50

150.00

Part No

PES 1500 1478 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
150.00 x 147.80 x 9.50

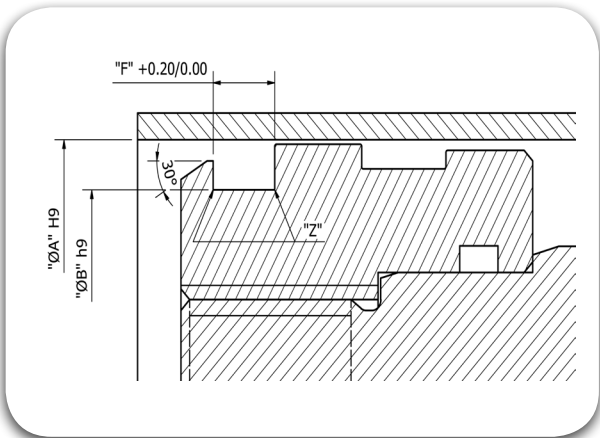
160.00

Part No

PES 1600 1578 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
160.00 x 157.80 x 9.50



170.00

Part No

PES 1700 1678 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
170.00 x 167.80 x 9.50

180.00

Part No

PES 1800 1778 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
180.00 x 177.80 x 9.50

190.00

Part No

PES 1900 1878 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
190.00 x 187.80 x 9.50

200.00

Part No

PES 2000 1978 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
200.00 x 197.80 x 9.50

210.00

Part No

PES 2100 2078 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
210.00 x 207.80 x 9.50

220.00

Part No

PES 2200 2178 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
220.00 x 217.80 x 9.50

230.00

Part No

PES 2300 2278 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
230.00 x 227.80 x 9.50

240.00

Part No

PES 2400 2378 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
240.00 x 237.80 x 9.50

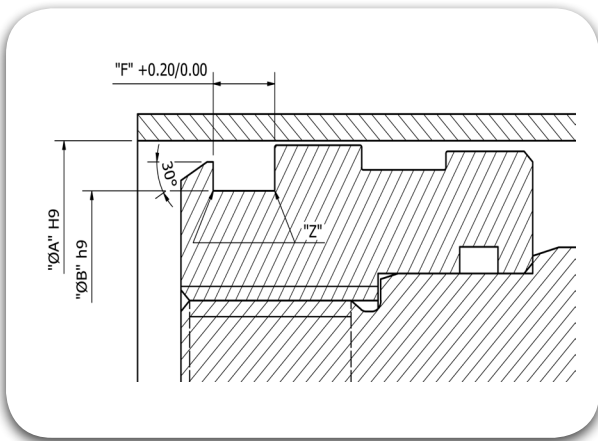
280.00

Part No

PES 2800 2678 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
280.00 x 267.80 x 9.50



300.00

Part No PES 3000 2878 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

300.00 x 287.80 x 9.50

320.00

Part No PES 3200 3078 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

320.00 x 307.80 x 9.50

350.00

Part No PES 3500 3378 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

350.00 x 337.80 x 9.50

400.00

Part No PES 4000 3878 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

400.00 x 387.80 x 9.50

420.00

Part No PES 4200 4078 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

420.00 x 407.80 x 9.50

450.00

Part No PES 4500 4378 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

450.00 x 437.80 x 9.50

480.00

Part No PES 4800 4678 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

480.00 x 467.80 x 9.50

500.00

Part No PES 5000 4878 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

500.00 x 487.80 x 9.50

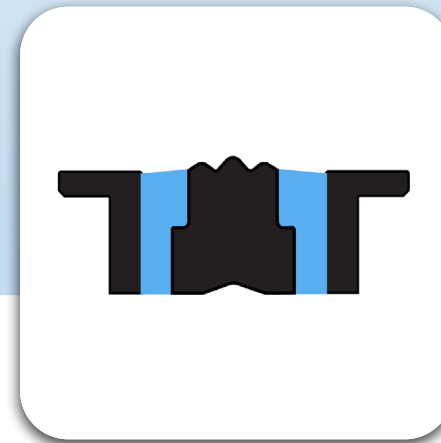


Piston Seals

PCT









#SealingExcellence



Description

The PCT Compact Seal consists of a rugged central element in TRIAFLEX[®], performing the main sealing function and supported by two slit Back-Up Rings and two slit Wear Rings, which positions the Piston centrally within the Cylinder bore. These Back-Up Rings limits the extrusion of the TRIAFLEX[®] Sealing Element and the Wear Rings takes the responsibility of the radial loads. In other way, the PCB type Piston Seal, simplifies the Piston Seal Groove machining and also minimizes the length of the Piston to a large extent.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø32.00 – Ø160.00
 Standard material	TRIAMIDE [®] T485(Acetal Resin) Wear Ring/ TRIAFLEX [®] T571(NBR) Sealing Element / TRIALEX [®] T451(Polyester Resin) Anti-extrusion Ring.
 Temperature(°C)	-30°C to 130°C
 Speed	≤ 0.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based).
 Pressure	≤ 250 bar

Material Details

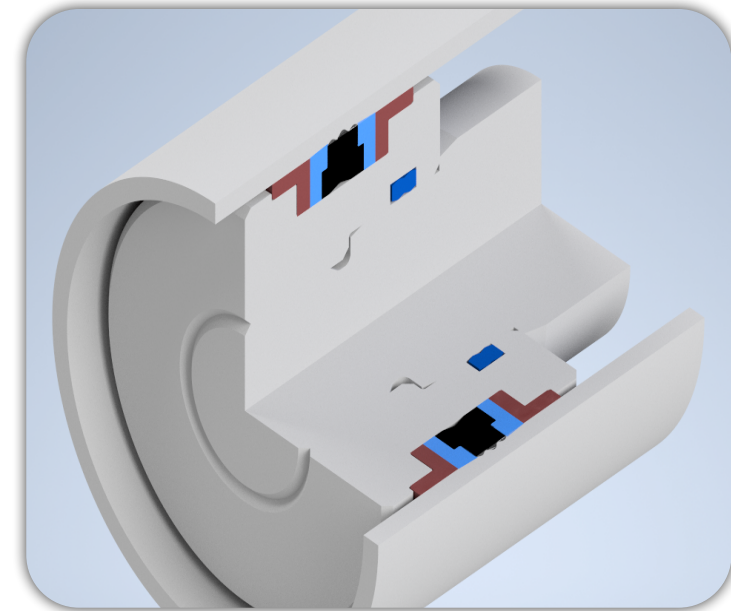
Seal Material	Seal Material Code	BackUp Ring Material	WearRing Material
TRIAFLEX® T571 NBR	CXN	TRIAFLEX® T451 Polyester Elastomer	TRIAMIDE® T485 Poly-Oxy Methylene
TRIAFLEX® T675 FKM	CXF	TRIAFLEX® T451 Polyester Elastomer	TRIAMIDE® T485 Poly-Oxy Methylene

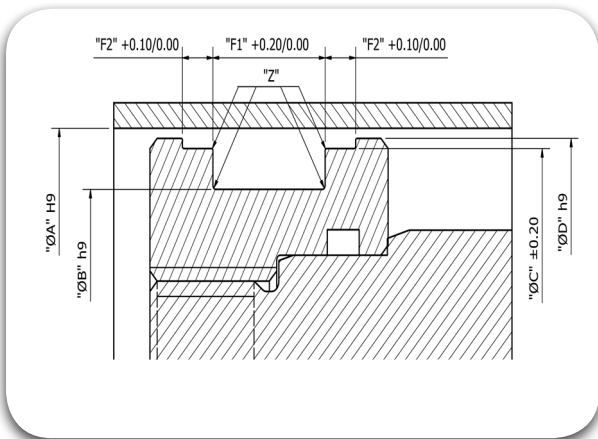
Nomenclature

Part No	PCT	0320	0240	155	CXN
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	

Groove Details

Bore Diameter "A" H9	Radius
Standard Range	"Z" max
20.00 - 120.00	0.40
120.10 - 250.00	0.80





32.00

Part No

PCT 0320 0240 155

Groove Dimension

ØA	x	ØB	x	ØC		
32.00		24.00		28.00		
F1	x	ØD	x	F2	x	Z
15.50		31.40		3.20		0.40

40.00

Part No

PCT 0400 0360 155

Groove Dimension

ØA	x	ØB	x	ØC		
40.00		32.00		36.00		
F1	x	ØD	x	F2	x	Z
15.50		39.40		3.20		0.40

50.00

Part No

PCT 0500 0460 205

Groove Dimension

ØA	x	ØB	x	ØC		
50.00		38.00		46.00		
F1	x	ØD	x	F2	x	Z
20.50		49.40		4.20		0.40

60.00

Part No

PCT 0600 0560 205

Groove Dimension

ØA	x	ØB	x	ØC		
60.00		48.00		56.00		
F1	x	ØD	x	F2	x	Z
20.50		59.40		4.20		0.40

63.00

Part No

PCT 0630 0590 205

Groove Dimension

ØA	x	ØB	x	ØC		
63.00		51.00		59.00		
F1	x	ØD	x	F2	x	Z
20.50		63.40		4.20		0.40

70.00

Part No

PCT 0700 0660 205

Groove Dimension

ØA	x	ØB	x	ØC		
70.00		58.00		66.00		
F1	x	ØD	x	F2	x	Z
20.50		69.40		4.20		0.40

80.00

Part No

PCT 0800 0760 225

Groove Dimension

ØA	x	ØB	x	ØC		
80.00		66.00		76.00		
F1	x	ØD	x	F2	x	Z
22.50		79.40		5.20		0.40

90.00

Part No

PCT 0900 0860 225

Groove Dimension

ØA	x	ØB	x	ØC		
90.00		76.00		86.00		
F1	x	ØD	x	F2	x	Z
22.50		89.40		5.20		0.40

100.00

Part No

PCT 1000 0960 225

Groove Dimension

ØA	x	ØB	x	ØC		
100.00		86.00		96.00		
F1	x	ØD	x	F2	x	Z
22.50		99.40		5.20		0.40

110.00

Part No

PCT 1100 1060 225

Groove Dimension

ØA	x	ØB	x	ØC		
110.00		96.00		106.00		
F1	x	ØD	x	F2	x	Z
22.50		109.40		5.20		0.40

120.00

Part No

PCT 1200 1160 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
120.00		106.00		116.00
F1	x	$\varnothing D$	x	F2 x Z
22.50		119.40		5.20 x 0.40

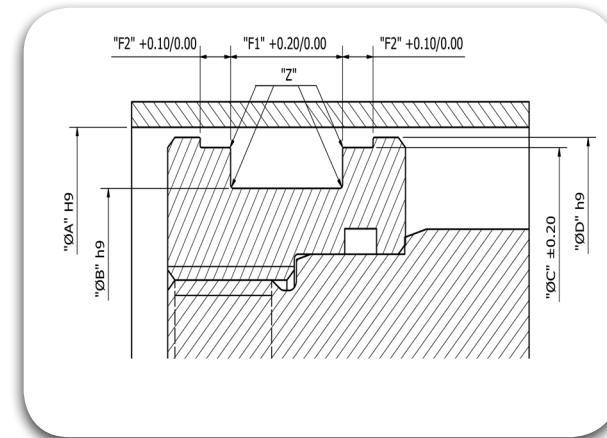
125.00

Part No

PCT 1250 1210 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
125.00		108.00		121.00
F1	x	$\varnothing D$	x	F2 x Z
26.50		124.40		7.20 x 0.80



130.00

Part No

PCT 1300 1260 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
130.00		113.00		126.00
F1	x	$\varnothing D$	x	F2 x Z
26.50		129.40		7.20 x 0.80

140.00

Part No

PCT 1400 1360 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
140.00		123.00		136.00
F1	x	$\varnothing D$	x	F2 x Z
26.50		139.40		7.20 x 0.80

150.00

Part No

PCT 1500 1460 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
150.00		133.00		146.00
F1	x	$\varnothing D$	x	F2 x Z
26.50		149.40		7.20 x 0.80

160.00

Part No

PCT 1600 1560 265

Groove Dimension

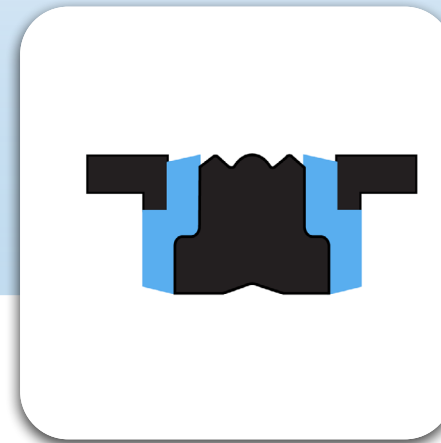
$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
160.00		143.00		156.00
F1	x	$\varnothing D$	x	F2 x Z
26.50		159.40		7.20 x 0.80



Piston Seals PCB









#SealingExcellence



Description

The PCB Compact Seal, similar to PBM Seals, consists of a rugged central element in TRIAFLEX[®], performing the main sealing function and supported by two slit Back-Up Rings and two slit Wear Rings, which positions the Piston centrally within the Cylinder bore. These Back-Up Rings limits the extrusion of the TRIAFLEX[®] Sealing Element and the Wear Rings takes the responsibility of the radial loads. In other way, the PCB type Piston Seal, simplifies the Piston Seal Groove machining and also minimizes the length of the Piston to a large extent.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø20.00 – Ø320.00
 Standard material	TRIAMIDE [®] T485(Acetal Resin) Wear Ring/ TRIAFLEX [®] T571(NBR) Sealing Element / TRIALEX [®] T451(Polyester Resin) Anti-extrusion Ring.
 Temperature(°C)	-30°C to 130°C
 Speed	≤ 0.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based).
 Pressure	≤ 400 bar

Material Details

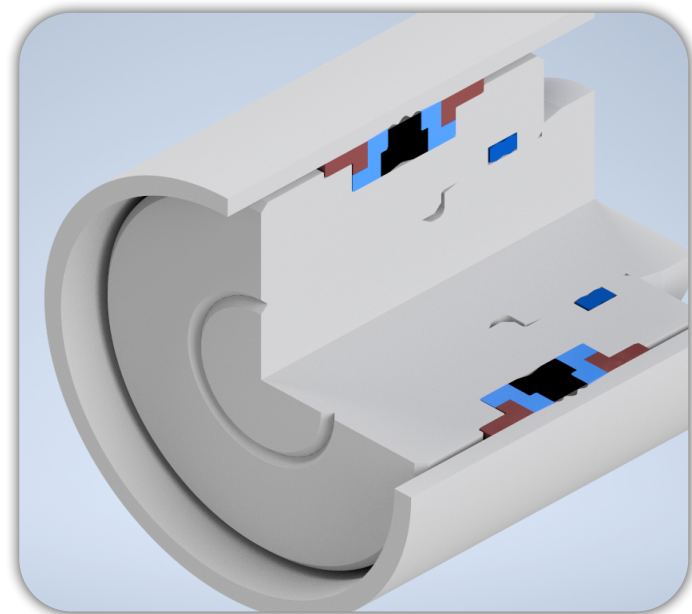
Seal Material	Seal Material Code	BackUp Ring Material	WearRing Material
TRIAFLEX® T571 NBR	CXN	TRIALEX® T451 Polyester Elastomer	TRIAMIDE® T485 Poly-Oxy Methylene
TRIAFLEX® T675 FKM	CXF	TRIALEX® T451 Polyester Elastomer	TRIAMIDE® T485 Poly-Oxy Methylene

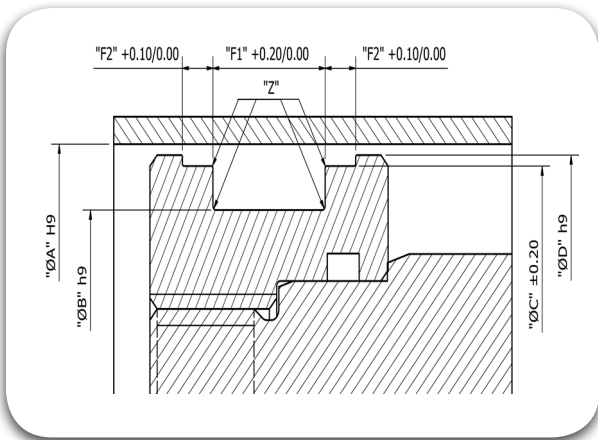
Nomenclature

Part No	PCB	0320	0240	155	CXN
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	

Groove Details

Bore Diameter "A" H9	Radius
Standard Range	"Z" max
20.00 - 115.00	0.40
115.10 - 250.00	0.80





20.00

Part No

PCB 0200 0110 135

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
20.00		11.00		13.50
F1	x	$\text{Ø}D$	x	F2
17.00		19.00		2.10
			x	Z
				0.40

22.00

Part No

PCB 0220 0130 135

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
22.00		13.00		13.50
F1	x	$\text{Ø}D$	x	F2
19.00		21.00		2.10
			x	Z
				0.40

25.00

Part No

PCB 0250 0150 120

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
25.00		15.00		12.00
F1	x	$\text{Ø}D$	x	F2
21.00		23.00		4.00
			x	Z
				0.40

25.00

Part No

PCB 0250 0150 125

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
25.00		15.00		12.50
F1	x	$\text{Ø}D$	x	F2
22.00		24.00		4.00
			x	Z
				0.40

25.00

Part No

PCB 0250 0150 164

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
25.00		15.00		16.40
F1	x	$\text{Ø}D$	x	F2
21.45		23.50		6.35
			x	Z
				0.40

25.00

Part No

PCB 0250 0160 135

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
25.00		16.00		13.50
F1	x	$\text{Ø}D$	x	F2
22.00		24.00		2.10
			x	Z
				0.40

28.00

Part No

PCB 0280 0190 135

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
28.00		19.00		13.50
F1	x	$\text{Ø}D$	x	F2
25.00		27.00		2.10
			x	Z
				0.40

30.00

Part No

PCB 0300 0210 135

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
30.00		21.00		13.50
F1	x	$\text{Ø}D$	x	F2
27.00		29.00		2.10
			x	Z
				0.40

32.00

Part No

PCB 0320 0220 155

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
32.00		22.00		15.50
F1	x	$\text{Ø}D$	x	F2
28.00		30.00		2.60
			x	Z
				0.40

32.00

Part No

PCB 0320 0220 164

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
32.00		22.00		16.40
F1	x	$\text{Ø}D$	x	F2
28.50		30.50		6.35
			x	Z
				0.40

35.00

Part No PCB 0350 0250 155

Groove Dimension

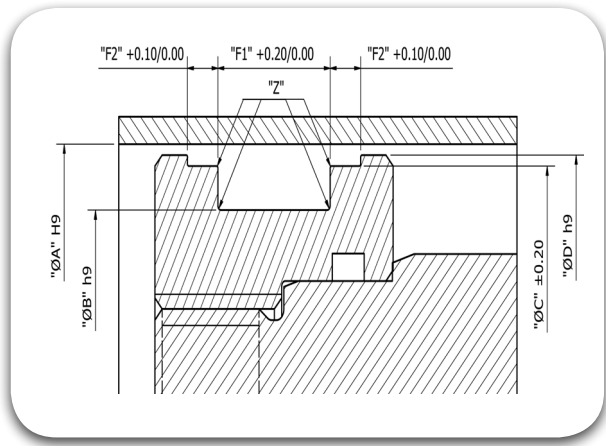
$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
35.00		25.00		15.50
F1	x	$\varnothing D$	x	F2 x Z
31.00		34.00		2.60 x 0.40

35.00

Part No PCB 0350 0250 164

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
35.00		25.00		16.40
F1	x	$\varnothing D$	x	F2 x Z
31.40		33.50		6.35 x 0.40



40.00

Part No PCB 0400 0240 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
40.00		24.00		18.40
F1	x	$\varnothing D$	x	F2 x Z
35.40		38.50		6.35 x 0.40

40.00

Part No PCB 0400 0260 155

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
40.00		26.00		15.50
F1	x	$\varnothing D$	x	F2 x Z
36.00		39.00		2.60 x 0.40

40.00

Part No PCB 0400 0300 125

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
40.00		30.00		12.50
F1	x	$\varnothing D$	x	F2 x Z
36.00		38.00		4.00 x 0.40

40.00

Part No PCB 0400 0300 164

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
40.00		30.00		16.40
F1	x	$\varnothing D$	x	F2 x Z
35.40		38.50		6.35 x 0.40

42.00

Part No PCB 0420 0280 155

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
42.00		28.00		15.50
F1	x	$\varnothing D$	x	F2 x Z
38.00		41.00		2.60 x 0.40

45.00

Part No PCB 0450 0290 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
45.00		29.00		18.40
F1	x	$\varnothing D$	x	F2 x Z
40.40		43.50		6.35 x 0.40

45.00

Part No PCB 0450 0310 155

Groove Dimension

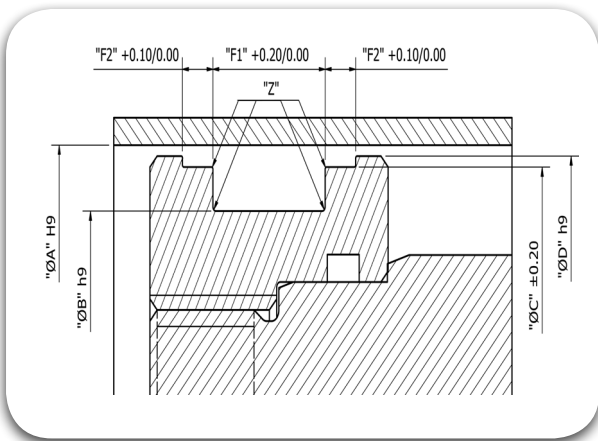
$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
45.00		31.00		15.50
F1	x	$\varnothing D$	x	F2 x Z
41.00		44.00		2.60 x 0.40

45.00

Part No PCB 0450 0350 164

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
45.00		35.00		16.40
F1	x	$\varnothing D$	x	F2 x Z
40.40		43.50		6.35 x 0.40



50.00

Part No

PCB 0500 0340 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
50.00		34.00		18.40
F1	x	$\varnothing D$	x	F2
45.40		48.50		6.35
			x	Z
				0.40

50.00

Part No

PCB 0500 0340 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
50.00		34.00		20.50
F1	x	$\varnothing D$	x	F2
46.00		49.00		3.10
			x	Z
				0.40

55.00

Part No

PCB 0550 0390 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
55.00		39.00		18.40
F1	x	$\varnothing D$	x	F2
50.36		53.50		6.35
			x	Z
				0.40

55.00

Part No

PCB 0550 0390 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
55.00		39.00		20.50
F1	x	$\varnothing D$	x	F2
51.00		54.00		3.10
			x	Z
				0.40

56.00

Part No

PCB 0560 0400 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
56.00		40.00		20.50
F1	x	$\varnothing D$	x	F2
52.00		55.00		3.10
			x	Z
				0.40

60.00

Part No

PCB 0600 0440 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
60.00		44.00		18.40
F1	x	$\varnothing D$	x	F2
55.40		58.50		6.35
			x	Z
				0.40

60.00

Part No

PCB 0600 0440 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
60.00		44.00		20.50
F1	x	$\varnothing D$	x	F2
56.00		59.00		3.10
			x	Z
				0.40

63.00

Part No

PCB 0630 0470 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
63.00		47.00		18.40
F1	x	$\varnothing D$	x	F2
58.40		61.50		6.35
			x	Z
				0.40

63.00

Part No

PCB 0630 0470 194

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
63.00		47.00		19.40
F1	x	$\varnothing D$	x	F2
58.40		61.50		6.35
			x	Z
				0.40

63.00

Part No

PCB 0630 0470 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
63.00		47.00		20.50
F1	x	$\varnothing D$	x	F2
59.00		62.00		3.10
			x	Z
				0.40

65.00

Part No PCB 0650 0490 205

Groove Dimension

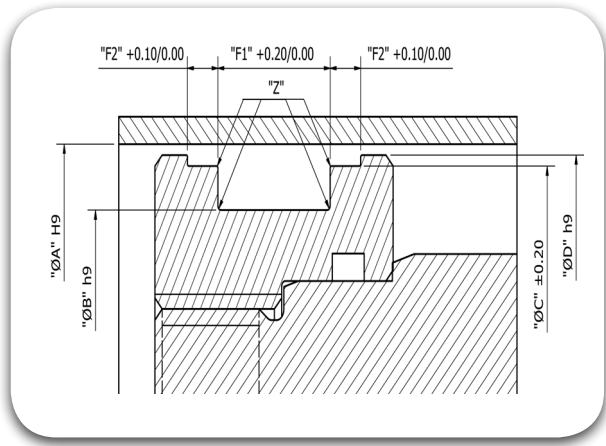
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65.00		49.00		20.50
F1	x	$\varnothing D$	x	F2 x Z
61.00		64.00		3.10 x 0.40

65.00

Part No PCB 0650 0500 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
65.00		50.00		18.40
F1	x	$\varnothing D$	x	F2 x Z
60.40		63.50		6.35 x 0.40



70.00

Part No PCB 0700 0500 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
70.00		50.00		22.40
F1	x	$\varnothing D$	x	F2 x Z
64.20		68.30		6.35 x 0.40

70.00

Part No PCB 0700 0540 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
70.00		54.00		20.50
F1	x	$\varnothing D$	x	F2 x Z
66.00		69.00		3.10 x 0.40

75.00

Part No PCB 0750 0550 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
75.00		55.00		22.40
F1	x	$\varnothing D$	x	F2 x Z
69.20		73.30		6.35 x 0.40

75.00

Part No PCB 0750 0590 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
75.00		59.00		20.50
F1	x	$\varnothing D$	x	F2 x Z
71.00		74.00		3.10 x 0.40

80.00

Part No PCB 0800 0600 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
80.00		60.00		22.40
F1	x	$\varnothing D$	x	F2 x Z
74.15		78.30		6.35 x 0.40

80.00

Part No PCB 0800 0620 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
80.00		62.00		22.50
F1	x	$\varnothing D$	x	F2 x Z
76.00		79.00		3.60 x 0.40

85.00

Part No PCB 0850 0650 224

Groove Dimension

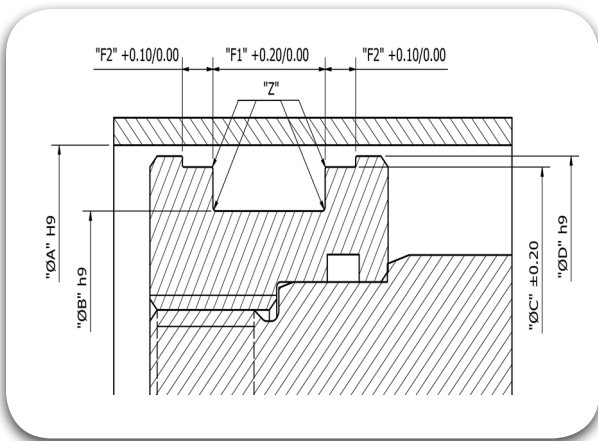
$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
85.00		65.00		22.40
F1	x	$\varnothing D$	x	F2 x Z
79.15		83.30		6.35 x 0.40

90.00

Part No PCB 0900 0700 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
90.00		70.00		22.40
F1	x	$\varnothing D$	x	F2 x Z
84.15		88.30		6.35 x 0.40



90.00

Part No

PCB 0900 0720 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
90.00		72.00		22.50
F1	x	$\varnothing D$	x	F2
86.00		89.00		3.60
				Z
				0.40

95.00

Part No

PCB 0950 0750 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
95.00		75.00		22.40
F1	x	$\varnothing D$	x	F2
89.15		93.30		6.35
				Z
				0.40

100.00

Part No

PCB 1000 0750 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
100.00		75.00		22.40
F1	x	$\varnothing D$	x	F2
93.15		98.00		6.35
				Z
				0.40

100.00

Part No

PCB 1000 0820 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
100.00		82.00		22.50
F1	x	$\varnothing D$	x	F2
96.00		99.00		3.60
				Z
				0.40

105.00

Part No

PCB 1050 0800 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
105.00		80.00		22.40
F1	x	$\varnothing D$	x	F2
98.10		103.00		6.35
				Z
				0.40

110.00

Part No

PCB 1100 0850 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
110.00		85.00		22.40
F1	x	$\varnothing D$	x	F2
103.10		108.00		6.35
				Z
				0.40

110.00

Part No

PCB 1100 0920 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
110.00		92.00		22.50
F1	x	$\varnothing D$	x	F2
106.00		109.00		3.60
				Z
				0.40

115.00

Part No

PCB 1150 0900 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
115.00		90.00		22.40
F1	x	$\varnothing D$	x	F2
108.10		113.00		6.35
				Z
				0.40

115.00

Part No

PCB 1150 0970 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
115.00		97.00		22.50
F1	x	$\varnothing D$	x	F2
111.00		114.00		3.60
				Z
				0.40

120.00

Part No

PCB 1200 0950 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
120.00		95.00		22.40
F1	x	$\varnothing D$	x	F2
113.10		118.10		6.35
				Z
				0.80

125.00

Part No

PCB 1250 1000 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
125.00		100.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
118.10		123.00		6.35 x 0.80

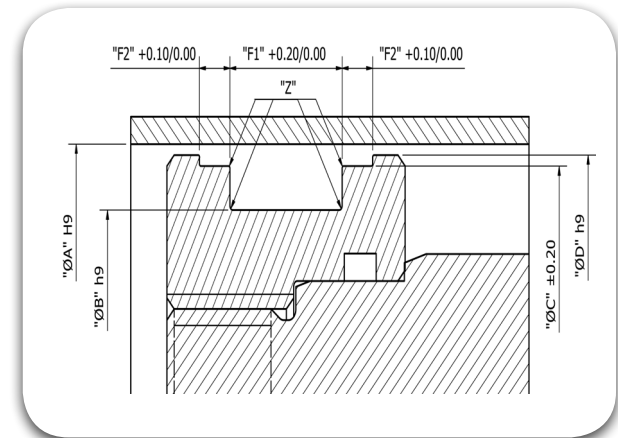
125.00

Part No

PCB 1250 1030 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
125.00		103.00		26.50
F1	x	$\varnothing D$	x	F2 x Z
121.00		124.00		5.10 x 0.80



130.00

Part No

PCB 1300 1050 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
130.00		105.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
122.60		127.50		9.50 x 0.80

130.00

Part No

PCB 1300 1050 254 /1

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
130.00		105.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
123.10		128.00		6.35 x 0.80

135.00

Part No

PCB 1350 1100 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
135.00		110.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
127.60		132.50		9.50 x 0.80

135.00

Part No

PCB 1350 1100 254 /1

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
135.00		110.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
128.10		133.00		6.35 x 0.80

140.00

Part No

PCB 1400 1150 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
140.00		115.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
132.60		137.50		9.50 x 0.80

140.00

Part No

PCB 1400 1150 254 /1

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
140.00		115.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
133.00		138.00		6.35 x 0.80

140.00

Part No

PCB 1400 1180 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
140.00		118.00		26.50
F1	x	$\varnothing D$	x	F2 x Z
136.00		139.00		5.10 x 0.80

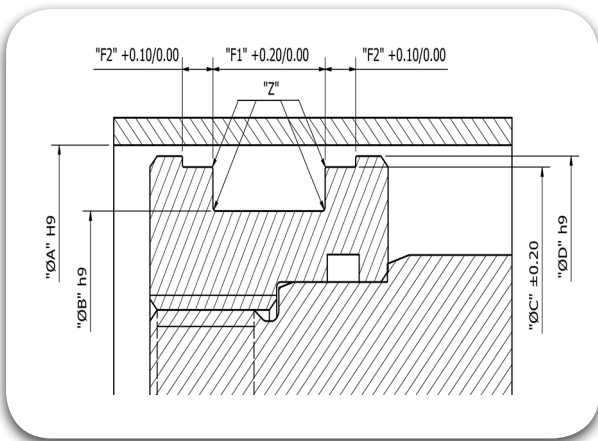
145.00

Part No

PCB 1450 1200 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
145.00		120.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
137.60		142.50		9.50 x 0.80



145.00

Part No

PCB 1450 1200 254 /1

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
145.00		120.00		25.40
F1	x	$\varnothing D$	x	F2
138.30		143.00		6.35
			x	Z
				0.80

150.00

Part No

PCB 1500 1250 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
150.00		125.00		25.40
F1	x	$\varnothing D$	x	F2
142.60		147.50		9.50
			x	Z
				0.80

150.00

Part No

PCB 1500 1250 254 /1

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
150.00		125.00		25.40
F1	x	$\varnothing D$	x	F2
143.00		148.00		6.35
			x	Z
				0.80

150.00

Part No

PCB 1500 1280 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
150.00		128.00		26.50
F1	x	$\varnothing D$	x	F2
146.00		149.00		5.10
			x	Z
				0.80

155.00

Part No

PCB 1550 1300 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
155.00		130.00		25.40
F1	x	$\varnothing D$	x	F2
147.60		152.50		9.50
			x	Z
				0.80

155.00

Part No

PCB 1550 1300 254 /1

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
155.00		130.00		25.40
F1	x	$\varnothing D$	x	F2
148.00		153.00		6.35
			x	Z
				0.80

160.00

Part No

PCB 1600 1300 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
160.00		130.00		25.40
F1	x	$\varnothing D$	x	F2
153.00		157.50		6.35
			x	Z
				0.80

160.00

Part No

PCB 1600 1300 254 /1

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
160.00		130.00		25.40
F1	x	$\varnothing D$	x	F2
152.60		157.50		9.50
			x	Z
				0.80

160.00

Part No

PCB 1600 1350 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
160.00		135.00		25.40
F1	x	$\varnothing D$	x	F2
152.60		157.50		9.50
			x	Z
				0.80

160.00

Part No

PCB 1600 1380 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
160.00		138.00		26.50
F1	x	$\varnothing D$	x	F2
156.00		159.00		5.10
			x	Z
				0.80

165.00

Part No

PCB 1650 1400 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
165.00		140.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
157.60		162.50		9.50 x 0.80

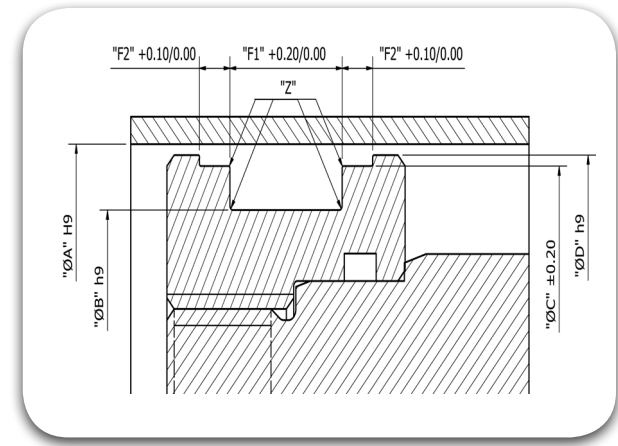
170.00

Part No

PCB 1700 1450 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
170.00		145.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
161.70		167.10		12.70 x 0.80



170.00

Part No

PCB 1700 1480 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
170.00		148.00		26.50
F1	x	$\varnothing D$	x	F2 x Z
166.00		169.00		5.10 x 0.80

175.00

Part No

PCB 1750 1500 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
175.00		150.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
166.70		172.10		12.70 x 0.80

180.00

Part No

PCB 1800 1500 354

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
180.00		150.00		35.40
F1	x	$\varnothing D$	x	F2 x Z
172.95		177.90		6.35 x 0.80

180.00

Part No

PCB 1800 1550 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
180.00		155.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
171.70		177.10		12.70 x 0.80

185.00

Part No

PCB 1850 1600 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
185.00		160.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
176.70		182.10		12.70 x 0.80

190.00

Part No

PCB 1900 1650 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
190.00		165.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
181.70		187.00		12.70 x 0.80

195.00

Part No

PCB 1950 1700 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
195.00		170.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
186.70		192.00		12.70 x 0.80

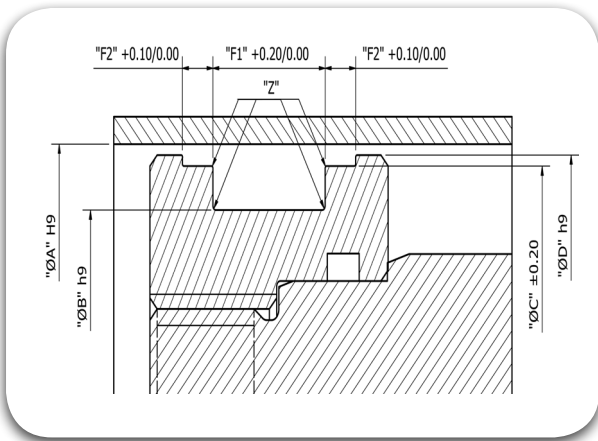
200.00

Part No

PCB 2000 1750 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
200.00		175.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
191.60		197.00		12.70 x 0.80



210.00

Part No

PCB 2100 1850 254

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
210.00		185.00		25.40
F1	x	$\text{Ø}D$	x	F2
201.60		207.00		12.70
			x	Z
				0.80

220.00

Part No

PCB 2200 1900 354

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
220.00		190.00		35.40
F1	x	$\text{Ø}D$	x	F2
212.70		217.90		6.35
			x	Z
				0.80

220.00

Part No

PCB 2200 1950 254

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
220.00		195.00		25.40
F1	x	$\text{Ø}D$	x	F2
211.60		217.00		12.70
			x	Z
				0.80

230.00

Part No

PCB 2300 2050 254

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
230.00		205.00		25.40
F1	x	$\text{Ø}D$	x	F2
221.60		217.00		12.70
			x	Z
				0.80

240.00

Part No

PCB 2400 2150 254

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
240.00		215.00		25.40
F1	x	$\text{Ø}D$	x	F2
231.60		237.00		12.70
			x	Z
				0.80

250.00

Part No

PCB 2500 2200 354

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
250.00		220.00		35.40
F1	x	$\text{Ø}D$	x	F2
242.90		247.90		6.35
			x	Z
				0.80

250.00

Part No

PCB 2500 2250 254

Groove Dimension

$\text{Ø}A$	x	$\text{Ø}B$	x	$\text{Ø}C$
250.00		225.00		25.40
F1	x	$\text{Ø}D$	x	F2
241.60		247.00		12.70
			x	Z
				0.80

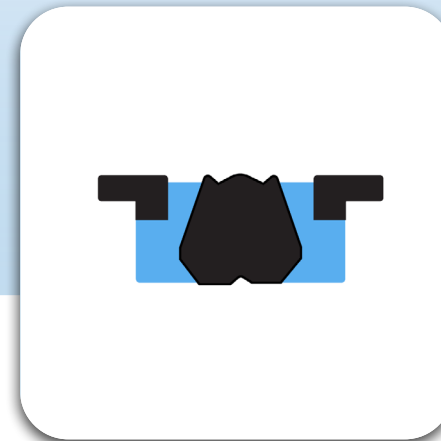


Piston Seals

PBM









#SealingExcellence



Description

The PBM Compact Seal consists of an energizing rugged central element in TRIAFLEX[®], performing the main sealing function and supported by two slit Back-Up Rings and two slit Wear Rings, which positions the Piston centrally within the Cylinder bore. These concave shaped Back-Up Rings limits the extrusion of the TRIAFLEX[®] Sealing Element and the Wear Rings takes the responsibility of the radial loads. In other way, the PBM type Piston Seal, simplifies the Piston Seal Groove machining and also minimizes the length of the Piston to a large extent.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø20.00 – Ø320.00
 Standard material	TRIAMIDE [®] T485(Acetal Resin) Wear Ring/ TRIAFLEX [®] T571(NBR) Sealing Element / TRIATEX [®] T451(Polyester Resin) Anti-extrusion Ring.
 Temperature(°C)	-30°C to 130°C
 Speed	≤ 0.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based).
 Pressure	≤ 400 bar

Material Details

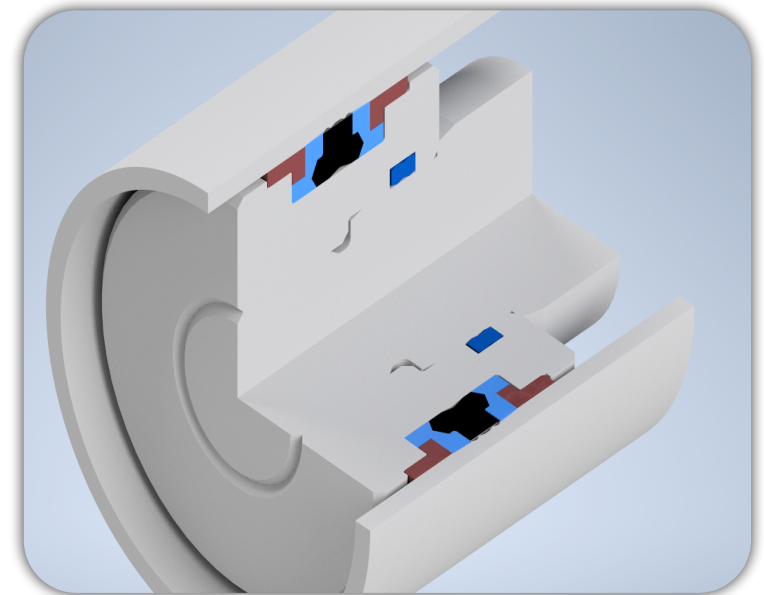
Seal Material	Seal Material Code	BackUp Ring Material	WearRing Material
TRIAFLEX® NBR	CX	TRIALEX® Polyester Elastomer	TRIAMIDE® Poly-Oxy Methylene

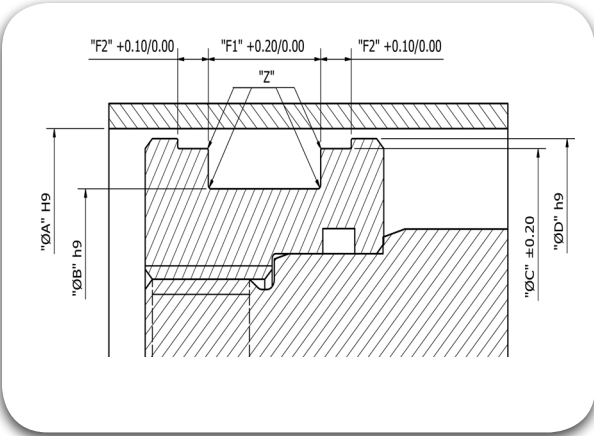
Nomenclature

Part No	PBM	0200	0110	135	CX
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	

Groove Details

Bore Diameter "A" H9	Radius
Standard Range	"Z" max
20.00 - 115.00	0.40
115.10 - 250.00	0.80





20.00

Part No PBM 0200 0110 135

Groove Dimension

ØA	x	ØB	x	ØC		
20.00		11.00		13.50		
F1	x	ØD	x	F2	x	Z
2.10		17.00		19.00		0.40

22.00

Part No PBM 0220 0130 135

Groove Dimension

ØA	x	ØB	x	ØC		
22.00		13.00		13.50		
F1	x	ØD	x	F2	x	Z
2.10		19.00		21.00		0.40

25.00

Part No PBM 0250 0150 120

Groove Dimension

ØA	x	ØB	x	ØC		
25.00		15.00		12.00		
F1	x	ØD	x	F2	x	Z
4.00		21.00		23.00		0.40

25.00

Part No PBM 0250 0150 125

Groove Dimension

ØA	x	ØB	x	ØC		
25.00		15.00		12.50		
F1	x	ØD	x	F2	x	Z
4.00		22.00		24.00		0.40

25.00

Part No PBM 0250 0150 164

Groove Dimension

ØA	x	ØB	x	ØC		
25.00		15.00		16.40		
F1	x	ØD	x	F2	x	Z
6.35		21.00		23.00		0.40

25.00

Part No PBM 0250 0160 135

Groove Dimension

ØA	x	ØB	x	ØC		
25.00		16.00		13.50		
F1	x	ØD	x	F2	x	Z
2.10		22.00		24.00		0.40

28.00

Part No PBM 0280 0190 135

Groove Dimension

ØA	x	ØB	x	ØC		
28.00		19.00		13.50		
F1	x	ØD	x	F2	x	Z
2.10		25.00		27.00		0.40

30.00

Part No PBM 0300 0170 154

Groove Dimension

ØA	x	ØB	x	ØC		
30.00		17.00		15.40		
F1	x	ØD	x	F2	x	Z
6.35		26.50		28.00		0.40

30.00

Part No PBM 0300 0210 135

Groove Dimension

ØA	x	ØB	x	ØC		
30.00		21.00		13.50		
F1	x	ØD	x	F2	x	Z
2.10		27.00		29.00		0.40

32.00

Part No PBM 0320 0220 155

Groove Dimension

ØA	x	ØB	x	ØC		
32.00		22.00		15.50		
F1	x	ØD	x	F2	x	Z
2.60		28.00		31.00		0.40

32.00

Part No

PBM 0320 0220 164

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
32.00		22.00		16.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		28.00		30.00 x 0.40

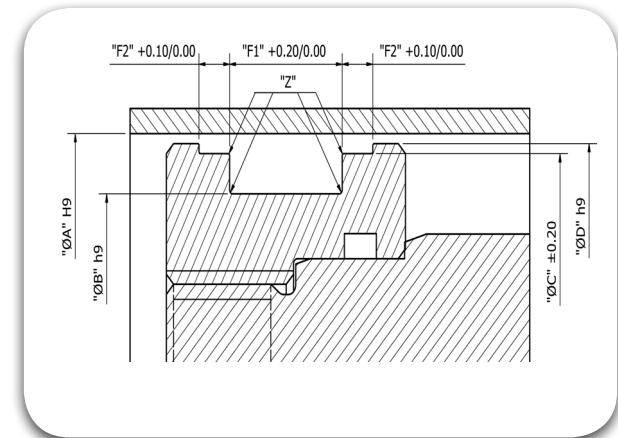
35.00

Part No

PBM 0350 0250 155

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
35.00		25.00		15.50
F1	x	$\varnothing D$	x	F2 x Z
2.60		31.00		34.00 x 0.40



35.00

Part No

PBM 0350 0250 164

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
35.00		25.00		16.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		31.40		33.50 x 0.40

40.00

Part No

PBM 0400 0240 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
40.00		24.00		18.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		35.40		38.50 x 0.40

40.00

Part No

PBM 0400 0260 155

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
40.00		26.00		15.50
F1	x	$\varnothing D$	x	F2 x Z
2.60		36.00		30.00 x 0.40

40.00

Part No

PBM 0400 0300 125

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
40.00		30.00		12.50
F1	x	$\varnothing D$	x	F2 x Z
4.00		36.00		38.00 x 0.40

40.00

Part No

PBM 0400 0300 125 /1

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
40.00		30.00		12.50
F1	x	$\varnothing D$	x	F2 x Z
4.00		37.00		39.00 x 0.40

40.00

Part No

PBM 0400 0300 164

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
40.00		30.00		16.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		35.40		38.00 x 0.40

42.00

Part No

PBM 0420 0280 155

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
42.00		28.00		15.50
F1	x	$\varnothing D$	x	F2 x Z
2.60		38.50		41.00 x 0.40

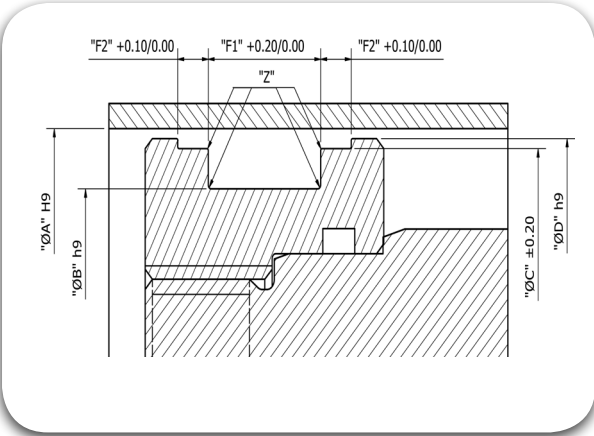
45.00

Part No

PBM 0450 0290 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
45.00		29.00		18.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		40.40		43.50 x 0.40



45.00

Part No PBM 0450 0310 155

Groove Dimension

ØA	x	ØB	x	ØC		
45.00		31.00		15.50		
F1	x	ØD	x	F2	x	Z
2.60		41.00		44.00		0.40

45.00

Part No PBM 0450 0350 164

Groove Dimension

ØA	x	ØB	x	ØC		
45.00		35.00		16.40		
F1	x	ØD	x	F2	x	Z
6.35		40.40		43.50		0.40

50.00

Part No PBM 0500 0340 184

Groove Dimension

ØA	x	ØB	x	ØC		
50.00		34.00		18.40		
F1	x	ØD	x	F2	x	Z
6.35		45.40		48.50		0.40

50.00

Part No PBM 0500 0340 205

Groove Dimension

ØA	x	ØB	x	ØC		
50.00		34.00		20.50		
F1	x	ØD	x	F2	x	Z
3.10		46.00		49.00		0.40

55.00

Part No PBM 0550 0390 184

Groove Dimension

ØA	x	ØB	x	ØC		
55.00		39.00		18.40		
F1	x	ØD	x	F2	x	Z
6.35		50.36		53.50		0.40

55.00

Part No PBM 0550 0390 205

Groove Dimension

ØA	x	ØB	x	ØC		
55.00		39.00		20.50		
F1	x	ØD	x	F2	x	Z
3.10		51.00		54.00		0.40

56.00

Part No PBM 0560 0400 205

Groove Dimension

ØA	x	ØB	x	ØC		
56.00		40.00		20.50		
F1	x	ØD	x	F2	x	Z
3.10		52.00		55.00		0.40

60.00

Part No PBM 0600 0440 184

Groove Dimension

ØA	x	ØB	x	ØC		
60.00		44.00		18.40		
F1	x	ØD	x	F2	x	Z
6.35		55.40		58.50		0.40

60.00

Part No PBM 0600 0440 205

Groove Dimension

ØA	x	ØB	x	ØC		
60.00		44.00		20.50		
F1	x	ØD	x	F2	x	Z
3.10		56.00		59.00		0.40

63.00

Part No PBM 0630 0470 184

Groove Dimension

ØA	x	ØB	x	ØC		
63.00		47.00		18.40		
F1	x	ØD	x	F2	x	Z
6.35		58.00		61.50		0.40

63.00

Part No

PBM 0630 0470 194

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
63.00		47.00		19.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		58.00		61.50 x 0.40

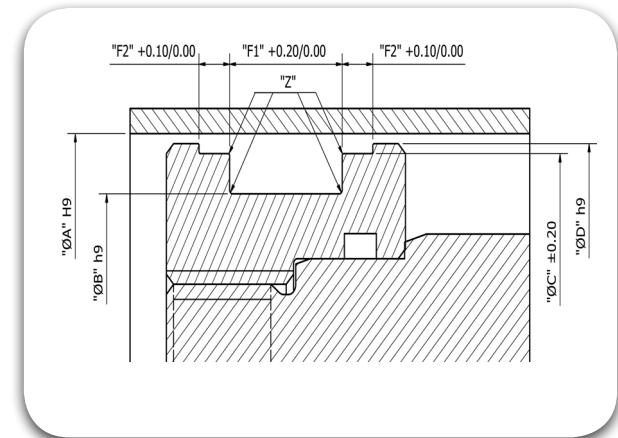
63.00

Part No

PBM 0630 0470 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
63.00		47.00		20.50
F1	x	$\varnothing D$	x	F2 x Z
3.10		59.00		62.00 x 0.40



65.00

Part No

PBM 0650 0490 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
65.00		49.00		20.50
F1	x	$\varnothing D$	x	F2 x Z
3.10		61.00		64.00 x 0.40

65.00

Part No

PBM 0650 0500 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
65.00		50.00		18.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		60.40		63.50 x 0.40

70.00

Part No

PBM 0700 0500 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
70.00		50.00		22.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		64.20		68.30 x 0.40

70.00

Part No

PBM 0700 0540 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
70.00		54.00		20.50
F1	x	$\varnothing D$	x	F2 x Z
3.10		66.00		69.00 x 0.40

75.00

Part No

PBM 0750 0550 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
75.00		55.00		22.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		69.20		73.30 x 0.40

75.00

Part No

PBM 0750 0590 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
75.00		59.00		20.50
F1	x	$\varnothing D$	x	F2 x Z
3.10		71.00		74.00 x 0.40

80.00

Part No

PBM 0800 0600 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
80.00		60.00		22.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		74.15		78.30 x 0.40

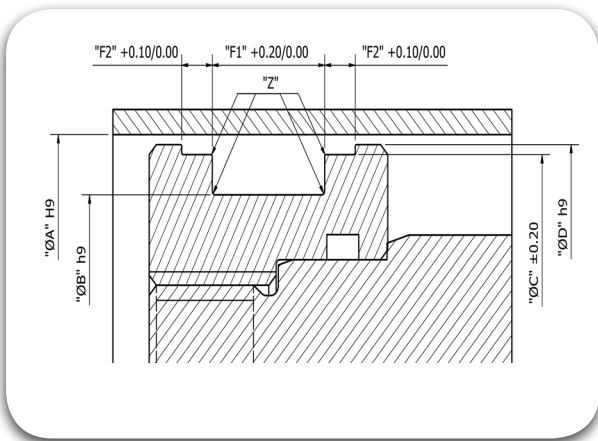
80.00

Part No

PBM 0800 0620 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
80.00		62.00		22.50
F1	x	$\varnothing D$	x	F2 x Z
3.60		76.00		79.00 x 0.40



85.00

Part No PBM 0850 0650 224

Groove Dimension

ØA	x	ØB	x	ØC		
85.00		65.00		22.40		
F1	x	ØD	x	F2	x	Z
6.35		79.15		83.30		0.40

90.00

Part No PBM 0900 0700 224

Groove Dimension

ØA	x	ØB	x	ØC		
90.00		70.00		22.40		
F1	x	ØD	x	F2	x	Z
6.35		84.15		88.30		0.40

90.00

Part No PBM 0900 0720 225

Groove Dimension

ØA	x	ØB	x	ØC		
90.00		72.00		22.50		
F1	x	ØD	x	F2	x	Z
3.60		86.00		89.00		0.40

95.00

Part No PBM 0950 0750 224

Groove Dimension

ØA	x	ØB	x	ØC		
95.00		75.00		22.40		
F1	x	ØD	x	F2	x	Z
6.35		89.15		93.30		0.40

100.00

Part No PBM 1000 0750 224

Groove Dimension

ØA	x	ØB	x	ØC		
100.00		75.00		22.40		
F1	x	ØD	x	F2	x	Z
6.35		93.15		98.00		0.40

100.00

Part No PBM 1000 0820 225

Groove Dimension

ØA	x	ØB	x	ØC		
100.00		82.00		22.50		
F1	x	ØD	x	F2	x	Z
3.60		96.00		99.00		0.40

105.00

Part No PBM 1050 0800 224

Groove Dimension

ØA	x	ØB	x	ØC		
105.00		80.00		22.40		
F1	x	ØD	x	F2	x	Z
6.35		98.10		103.00		0.40

110.00

Part No PBM 1100 0850 224

Groove Dimension

ØA	x	ØB	x	ØC		
110.00		85.00		22.40		
F1	x	ØD	x	F2	x	Z
6.35		103.10		108.00		0.40

110.00

Part No PBM 1100 0920 225

Groove Dimension

ØA	x	ØB	x	ØC		
110.00		92.00		22.50		
F1	x	ØD	x	F2	x	Z
3.60		106.00		109.00		0.40

115.00

Part No PBM 1150 0900 224

Groove Dimension

ØA	x	ØB	x	ØC		
115.00		90.00		22.40		
F1	x	ØD	x	F2	x	Z
6.35		108.10		113.00		0.40

115.00

Part No

PBM 1150 0970 225

Groove Dimension

$\varnothing A$ x $\varnothing B$ x $\varnothing C$
115.00 x 97.00 x 22.50

F1 x $\varnothing D$ x F2 x Z
3.60 x 111.00 x 114.00 x 0.40

120.00

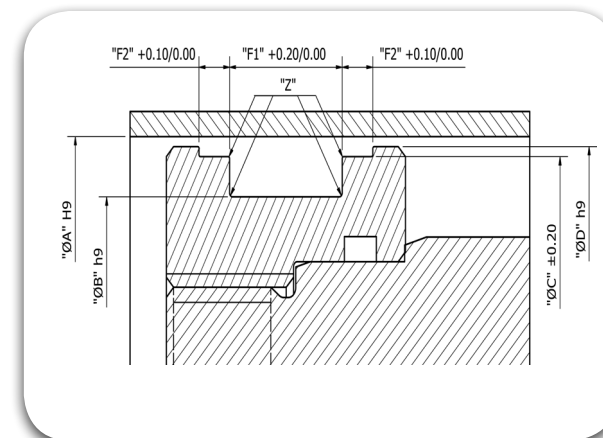
Part No

PBM 1200 0950 224

Groove Dimension

$\varnothing A$ x $\varnothing B$ x $\varnothing C$
120.00 x 95.00 x 22.40

F1 x $\varnothing D$ x F2 x Z
6.35 x 113.10 x 118.10 x 0.80



125.00

Part No

PBM 1250 1000 254

Groove Dimension

$\varnothing A$ x $\varnothing B$ x $\varnothing C$
125.00 x 100.00 x 25.40

F1 x $\varnothing D$ x F2 x Z
6.35 x 118.10 x 123.00 x 0.80

125.00

Part No

PBM 1250 1030 265

Groove Dimension

$\varnothing A$ x $\varnothing B$ x $\varnothing C$
125.00 x 103.00 x 26.50

F1 x $\varnothing D$ x F2 x Z
5.10 x 121.00 x 124.00 x 0.80

130.00

Part No

PBM 1300 1050 254

Groove Dimension

$\varnothing A$ x $\varnothing B$ x $\varnothing C$
130.00 x 105.00 x 25.40

F1 x $\varnothing D$ x F2 x Z
9.50 x 122.60 x 127.00 x 0.80

130.00

Part No

PBM 1300 1050 265

Groove Dimension

$\varnothing A$ x $\varnothing B$ x $\varnothing C$
130.00 x 105.00 x 26.50

F1 x $\varnothing D$ x F2 x Z
6.35 x 123.10 x 128.00 x 0.80

133.00

Part No

PBM 1330 1150 224

Groove Dimension

$\varnothing A$ x $\varnothing B$ x $\varnothing C$
133.00 x 115.00 x 22.40

F1 x $\varnothing D$ x F2 x Z
9.52 x 125.60 x 130.50 x 0.80

135.00

Part No

PBM 1350 1100 254

Groove Dimension

$\varnothing A$ x $\varnothing B$ x $\varnothing C$
135.00 x 110.00 x 25.40

F1 x $\varnothing D$ x F2 x Z
9.50 x 127.60 x 132.50 x 0.80

135.00

Part No

PBM 1350 1100 254 /1

Groove Dimension

$\varnothing A$ x $\varnothing B$ x $\varnothing C$
135.00 x 110.00 x 25.40

F1 x $\varnothing D$ x F2 x Z
6.35 x 128.10 x 133.00 x 0.80

140.00

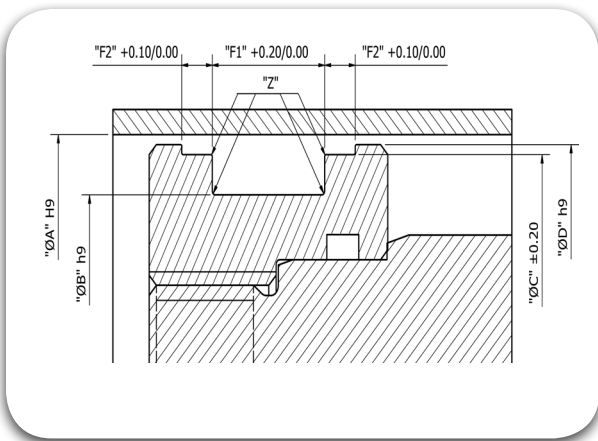
Part No

PBM 1400 1150 254

Groove Dimension

$\varnothing A$ x $\varnothing B$ x $\varnothing C$
140.00 x 115.00 x 25.40

F1 x $\varnothing D$ x F2 x Z
9.50 x 132.60 x 137.50 x 0.80



140.00

Part No

PBM 1400 1150 254 /1

Groove Dimension

ØA	x	ØB	x	ØC
140.00		115.00		25.40
F1	x	ØD	x	F2
6.35		133.00		138.00
			x	Z
				0.80

140.00

Part No

PBM 1400 1180 265

Groove Dimension

ØA	x	ØB	x	ØC
140.00		118.00		26.50
F1	x	ØD	x	F2
5.10		136.00		139.00
			x	Z
				0.80

145.00

Part No

PBM 1450 1200 254

Groove Dimension

ØA	x	ØB	x	ØC
145.00		120.00		25.40
F1	x	ØD	x	F2
9.50		137.60		142.50
			x	Z
				0.80

145.00

Part No

PBM 1450 1200 254 /1

Groove Dimension

ØA	x	ØB	x	ØC
145.00		120.00		25.40
F1	x	ØD	x	F2
6.35		138.30		142.95
			x	Z
				0.80

150.00

Part No

PBM 1500 1250 254

Groove Dimension

ØA	x	ØB	x	ØC
150.00		125.00		25.40
F1	x	ØD	x	F2
9.50		142.60		147.50
			x	Z
				0.80

150.00

Part No

PBM 1500 1250 254 /1

Groove Dimension

ØA	x	ØB	x	ØC
150.00		125.00		25.40
F1	x	ØD	x	F2
6.35		143.00		148.00
			x	Z
				0.80

150.00

Part No

PBM 1500 1280 265

Groove Dimension

ØA	x	ØB	x	ØC
150.00		128.00		26.50
F1	x	ØD	x	F2
5.10		146.00		149.00
			x	Z
				0.80

152.40

Part No

PBM 1520 1270 317

Groove Dimension

ØA	x	ØB	x	ØC
152.40		127.00		31.75
F1	x	ØD	x	F2
9.50		145.00		149.91
			x	Z
				0.80

155.00

Part No

PBM 1550 1300 254

Groove Dimension

ØA	x	ØB	x	ØC
155.00		130.00		25.40
F1	x	ØD	x	F2
9.50		147.00		152.50
			x	Z
				0.80

155.00

Part No

PBM 1550 1300 254 /1

Groove Dimension

ØA	x	ØB	x	ØC
155.00		130.00		25.40
F1	x	ØD	x	F2
6.35		148.00		153.00
			x	Z
				0.80

160.00

Part No

PBM 1600 1300 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
160.00		130.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		153.00		157.50 x 0.80

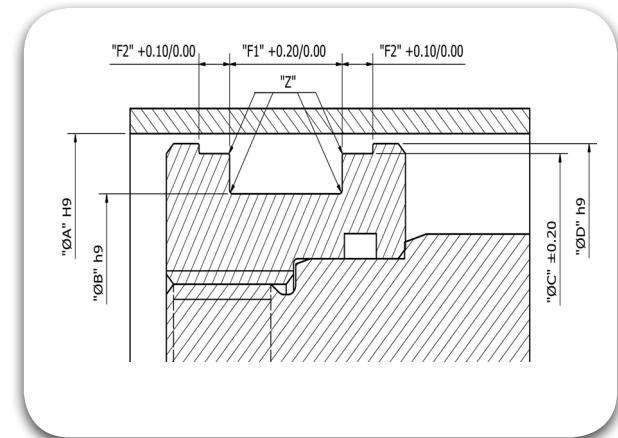
160.00

Part No

PBM 1600 1300 254 /1

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
160.00		130.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
9.50		152.60		157.50 x 0.80



160.00

Part No

PBM 1600 1350 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
160.00		135.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
9.50		152.60		157.50 x 0.80

160.00

Part No

PBM 1600 1380 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
160.00		138.00		26.50
F1	x	$\varnothing D$	x	F2 x Z
5.10		156.00		159.00 x 0.80

165.00

Part No

PBM 1650 1400 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
165.00		140.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
9.50		157.60		162.50 x 0.80

170.00

Part No

PBM 1700 1450 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
170.00		145.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
12.70		161.70		167.10 x 0.80

170.00

Part No

PBM 1700 1480 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
170.00		148.00		26.50
F1	x	$\varnothing D$	x	F2 x Z
5.10		166.00		169.00 x 0.80

175.00

Part No

PBM 1750 1500 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
175.00		150.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
12.70		166.70		172.10 x 0.80

180.00

Part No

PBM 1800 1500 354

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
180.00		150.00		35.40
F1	x	$\varnothing D$	x	F2 x Z
6.35		172.95		177.87 x 0.80

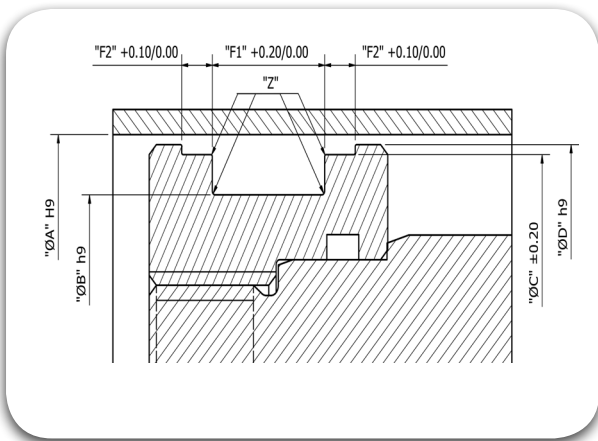
180.00

Part No

PBM 1800 1550 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$
180.00		155.00		25.40
F1	x	$\varnothing D$	x	F2 x Z
12.70		171.70		177.10 x 0.80



185.00

Part No

PBM 1850 1600 254

Groove Dimension

ØA	x	ØB	x	ØC		
185.00		160.00		25.40		
F1	x	ØD	x	F2	x	Z
12.70		176.70		182.10		0.80

190.00

Part No

PBM 1900 1650 254

Groove Dimension

ØA	x	ØB	x	ØC		
190.00		165.00		25.40		
F1	x	ØD	x	F2	x	Z
12.70		181.70		187.00		0.80

195.00

Part No

PBM 1950 1700 254

Groove Dimension

ØA	x	ØB	x	ØC		
195.00		170.00		25.40		
F1	x	ØD	x	F2	x	Z
12.70		186.70		192.00		0.80

200.00

Part No

PBM 2000 1750 254

Groove Dimension

ØA	x	ØB	x	ØC		
200.00		175.00		25.40		
F1	x	ØD	x	F2	x	Z
12.70		191.60		197.00		0.80

200.00

Part No

PBM 2000 1750 315

Groove Dimension

ØA	x	ØB	x	ØC		
200.00		175.00		31.50		
F1	x	ØD	x	F2	x	Z
6.60		196.00		199.00		0.80

210.00

Part No

PBM 2100 1850 254

Groove Dimension

ØA	x	ØB	x	ØC		
210.00		185.00		25.40		
F1	x	ØD	x	F2	x	Z
12.70		201.60		207.00		0.80

220.00

Part No

PBM 2200 1900 354

Groove Dimension

ØA	x	ØB	x	ØC		
220.00		190.00		35.40		
F1	x	ØD	x	F2	x	Z
6.35		212.70		217.90		0.80

220.00

Part No

PBM 2200 1950 254

Groove Dimension

ØA	x	ØB	x	ØC		
220.00		195.00		25.40		
F1	x	ØD	x	F2	x	Z
12.70		211.60		217.00		0.80

230.00

Part No

PBM 2300 2050 254

Groove Dimension

ØA	x	ØB	x	ØC		
230.00		205.00		25.40		
F1	x	ØD	x	F2	x	Z
12.70		221.60		227.00		0.80

240.00

Part No

PBM 2400 2150 254

Groove Dimension

ØA	x	ØB	x	ØC		
240.00		215.00		25.40		
F1	x	ØD	x	F2	x	Z
12.70		231.60		237.00		0.80

250.00

Part No

PBM 2500 2200 354

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$		
250.00		220.00		35.40		
F1	x	$\varnothing D$	x	F2	x	Z
6.35		242.90		247.85		0.80

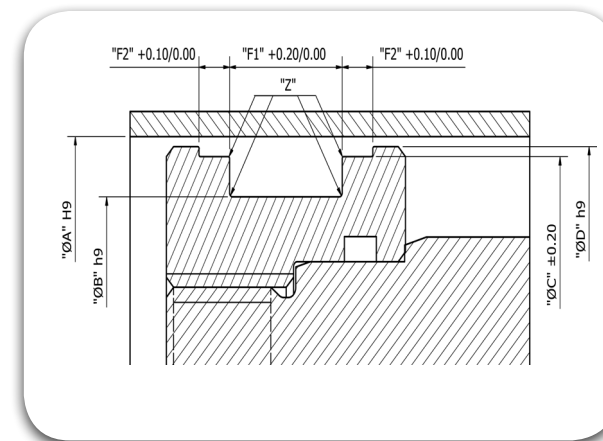
250.00

Part No

PBM 2500 2250 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$		
250.00		225.00		25.40		
F1	x	$\varnothing D$	x	F2	x	Z
12.70		241.60		247.00		0.80





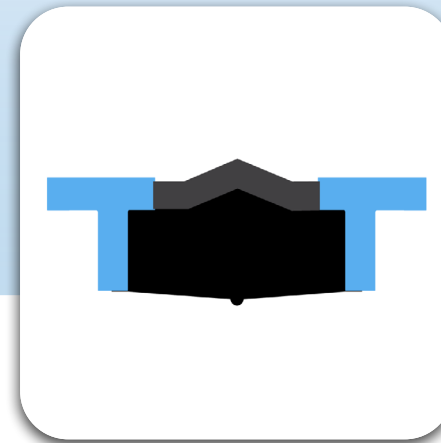
Piston Seals

PSP



TRIADA
TECHNOLOGIES

#SealingExcellence



Description

The PSP Compact Seal is a double acting piston seal which is similar to PPC but the groove dimensions has been changed to have the necessary deformation when installed in the closed groove. This seal consists of a rugged central element in TRIAFLEX[®] with fabric reinforcement, performing the main sealing function and supported by two slit Wear Rings, which positions the Piston centrally within the Cylinder bore. These wear rings limits the extrusion of the TRIAFLEX[®] Sealing Element and takes the responsibility of the radial loads and also resists the dynamic and static friction.



Reciprocating



Oscillating



Rotary



Helix



Static



Single Acting



Double Acting



Diameter Range

Ø25.00 – Ø250.00



Standard material

TRIAMIDE[®] (Acetal Resin+PTFE + Glass Fibre)
Wear Rings /Fabric Reinforced TRIAFLEX[®]
(NBR) Sealing Element.



Temperature(°C)

-30°C to 130°C



Speed

≤ 0.50 m/s



Fluids

Hydraulic fluids (Mineral Oil based).



Pressure

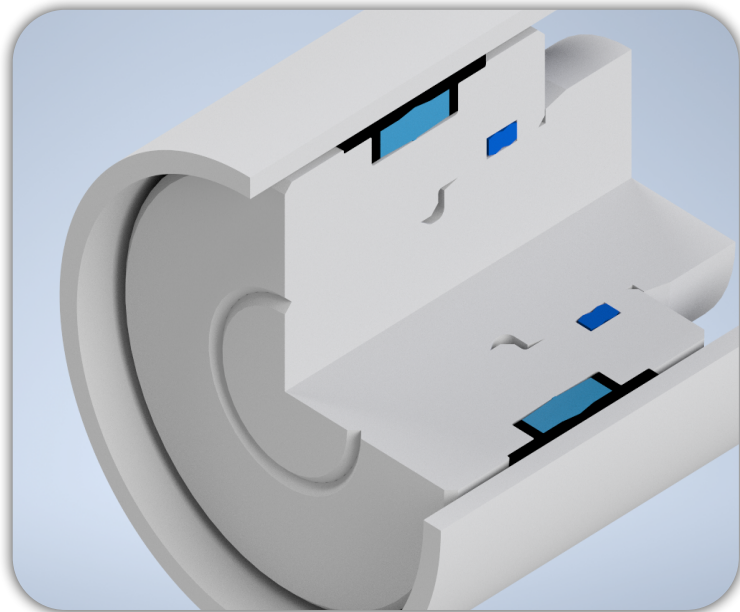
≤ 350 bar

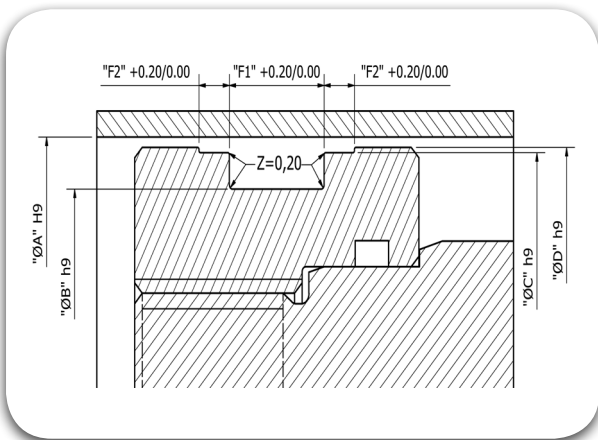
Material Details

Seal Material	Seal Material Code	WearRing Material
TRIAFLEX® NBR	CX	TRIAMIDE® Poly-Oxy Methylene

Nomenclature

Part No	PSP	0250	0170	100	CX
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	





25.00

Part No

PSP 0250 0170 100

Groove Dimension

ØA	x	ØB	x	F1
25.00		17.00		10.00
F2	x	ØC	x	ØD
4.00		22.00		24.00

32.00

Part No

PSP 0320 0240 155

Groove Dimension

ØA	x	ØB	x	F1
32.00		24.00		15.50
F2	x	ØC	x	ØD
3.20		28.00		31.40

32.00

Part No

PSP 0320 0240 100

Groove Dimension

ØA	x	ØB	x	F1
32.00		24.00		10.00
F2	x	ØC	x	ØD
4.00		29.00		31.00

35.00

Part No

PSP 0350 0270 155

Groove Dimension

ØA	x	ØB	x	F1
35.00		27.00		15.50
F2	x	ØC	x	ØD
3.20		31.00		34.40

40.00

Part No

PSP 0400 0320 155

Groove Dimension

ØA	x	ØB	x	F1
40.00		32.00		15.50
F2	x	ØC	x	ØD
3.20		36.00		39.40

40.00

Part No

PSP 0400 0320 100

Groove Dimension

ØA	x	ØB	x	F1
40.00		32.00		10.00
F2	x	ØC	x	ØD
4.00		37.00		39.00

45.00

Part No

PSP 0450 0370 155

Groove Dimension

ØA	x	ØB	x	F1
45.00		37.00		15.50
F2	x	ØC	x	ØD
3.20		41.00		44.40

50.00

Part No

PSP 0500 0380 205

Groove Dimension

ØA	x	ØB	x	F1
50.00		38.00		20.50
F2	x	ØC	x	ØD
4.20		46.00		49.40

50.00

Part No

PSP 0500 0400 125

Groove Dimension

ØA	x	ØB	x	F1
50.00		40.00		12.50
F2	x	ØC	x	ØD
4.00		47.00		49.00

55.00

Part No

PSP 0550 0430 205

Groove Dimension

ØA	x	ØB	x	F1
55.00		43.00		20.50
F2	x	ØC	x	ØD
4.20		51.00		54.40

60.00

Part No

PSP 0600 0480 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
60.00		48.00		20.50
F2	x	$\varnothing C$	x	$\varnothing D$
4.20		56.00		59.40

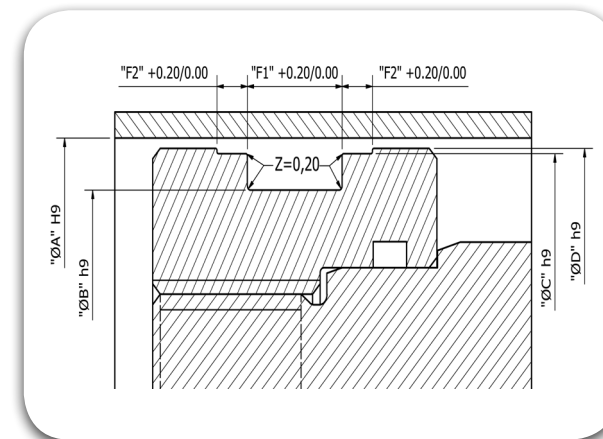
63.00

Part No

PSP 0630 0510 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
63.00		51.00		20.50
F2	x	$\varnothing C$	x	$\varnothing D$
4.20		59.00		62.40



63.00

Part No

PSP 0630 0530 125

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
63.00		53.00		12.50
F2	x	$\varnothing C$	x	$\varnothing D$
4.00		60.00		62.00

65.00

Part No

PSP 0650 0530 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
65.00		53.00		20.50
F2	x	$\varnothing C$	x	$\varnothing D$
4.20		61.00		64.40

70.00

Part No

PSP 0700 0580 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
70.00		58.00		20.50
F2	x	$\varnothing C$	x	$\varnothing D$
4.20		66.00		69.40

75.00

Part No

PSP 0750 0630 205

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
75.00		63.00		20.50
F2	x	$\varnothing C$	x	$\varnothing D$
4.20		71.00		74.40

80.00

Part No

PSP 0800 0650 200

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
80.00		65.00		20.00
F2	x	$\varnothing C$	x	$\varnothing D$
5.00		76.00		78.50

80.00

Part No

PSP 0800 0660 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
80.00		66.00		22.50
F2	x	$\varnothing C$	x	$\varnothing D$
5.20		76.00		79.40

85.00

Part No

PSP 0850 0710 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
85.00		71.00		22.50
F2	x	$\varnothing C$	x	$\varnothing D$
5.20		81.00		84.40

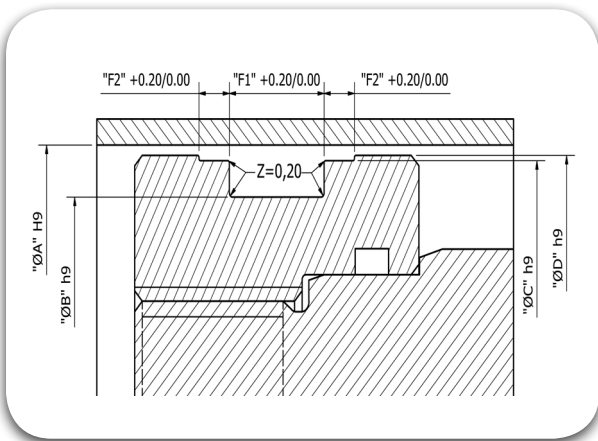
90.00

Part No

PSP 0900 0760 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
90.00		76.00		22.50
F2	x	$\varnothing C$	x	$\varnothing D$
5.20		86.00		89.40



100.00

Part No

PSP 1000 0850 200

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
100.00		85.00		20.00
F2	x	$\varnothing C$	x	$\varnothing D$
5.00		96.00		98.50

100.00

Part No

PSP 1000 0860 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
100.00		86.00		22.50
F2	x	$\varnothing C$	x	$\varnothing D$
5.20		96.00		99.40

110.00

Part No

PSP 1100 0960 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
110.00		96.00		22.50
F2	x	$\varnothing C$	x	$\varnothing D$
5.20		106.00		109.40

120.00

Part No

PSP 1200 1060 225

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
120.00		106.00		22.50
F2	x	$\varnothing C$	x	$\varnothing D$
5.20		116.00		119.40

125.00

Part No

PSP 1250 1050 250

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
125.00		105.00		25.00
F2	x	$\varnothing C$	x	$\varnothing D$
6.30		120.00		123.00

125.00

Part No

PSP 1250 1080 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
125.00		108.00		26.50
F2	x	$\varnothing C$	x	$\varnothing D$
7.20		121.00		124.40

140.00

Part No

PSP 1400 1200 250

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
140.00		120.00		25.00
F2	x	$\varnothing C$	x	$\varnothing D$
6.30		135.00		138.00

140.00

Part No

PSP 1400 1230 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
140.00		123.00		26.50
F2	x	$\varnothing C$	x	$\varnothing D$
7.20		136.00		139.40

150.00

Part No

PSP 1500 1330 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
150.00		133.00		26.50
F2	x	$\varnothing C$	x	$\varnothing D$
7.20		146.00		149.40

160.00

Part No

PSP 1600 1400 250

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
160.00		140.00		25.00
F2	x	$\varnothing C$	x	$\varnothing D$
6.30		155.00		158.00

160.00

Part No

PSP 1600 1430 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
160.00		143.00		26.50
F2	x	$\varnothing C$	x	$\varnothing D$
7.20		156.00		159.40

180.00

Part No

PSP 1800 1630 265

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
180.00		163.00		26.50
F2	x	$\varnothing C$	x	$\varnothing D$
7.20		176.00		179.40

200.00

Part No

PSP 2000 1700 360

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
200.00		170.00		36.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.50		192.00		197.00

200.00

Part No

PSP 2000 1800 315

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
200.00		180.00		31.50
F2	x	$\varnothing C$	x	$\varnothing D$
9.20		196.00		199.40

220.00

Part No

PSP 2200 2000 315

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
220.00		200.00		31.50
F2	x	$\varnothing C$	x	$\varnothing D$
9.20		216.00		219.40

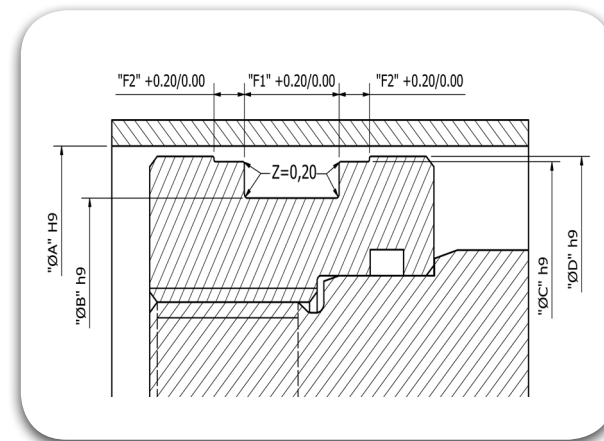
250.00

Part No

PSP 2500 2300 315

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
250.00		230.00		31.50
F2	x	$\varnothing C$	x	$\varnothing D$
9.20		246.00		249.40

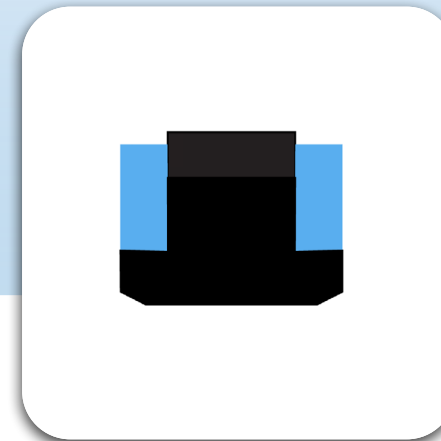
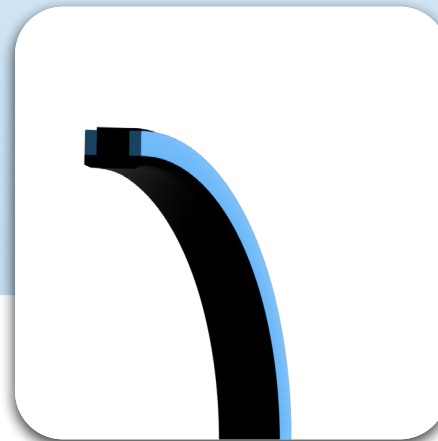




Piston Seals PTC









#SealingExcellence



Description

The PTC Compact Seal is a double acting piston seal consisting of a TRIALON® (filled or unfilled PTFE) element, performing the main sealing function and energized by an elastomer in TRIAFLEX® (NBR material), supported by two slit Back-Up Rings, which positions the Piston centrally within the Cylinder bore. These Back-Up Rings limits the extrusion of the Sealing Element and thus enhances the life of the seal.

 Diameter Range	Ø20.00 – Ø500.00
 Standard material	TRIAMIDE® (PA) Anti-extrusion Rings / TRIALON® (Bronze Filled PTFE) Sealing Element / Energiser in TRIAFLEX®(HNBR) .
 Temperature(°C)	-30°C to 130°C
 Speed	≤ 1.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based).
 Pressure	≤ 800 bar

-  Reciprocating
-  Oscillating
-  Rotary
-  Helix
-  Static
-  Single Acting
-  Double Acting

Material Details

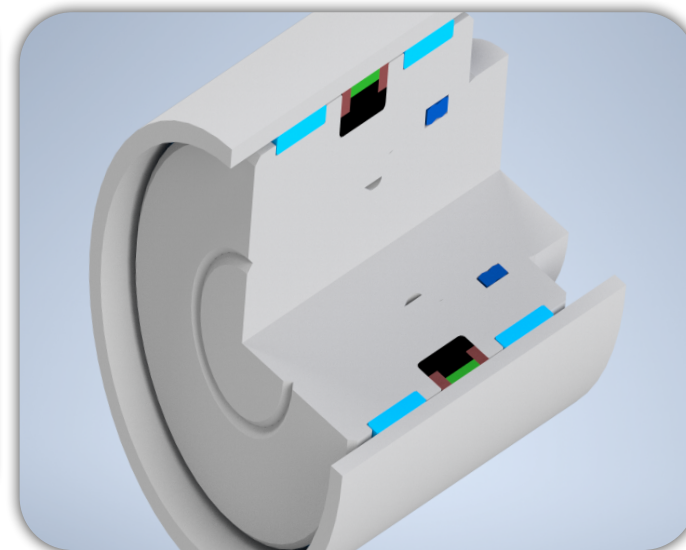
Seal Material	Seal Material Code	O-Ring Material	O-Ring Material / Code
TRIALON® Bronze Filled PTFE	T415	TRIAFLEX® NBR	N (T571)
TRIALON® Carbon Filled PTFE	T417	TRIAFLEX® FKM	F (T675)
		TRIAFLEX® EPDM	E (T771)
		TRIAFLEX® HNBR	H (T531)

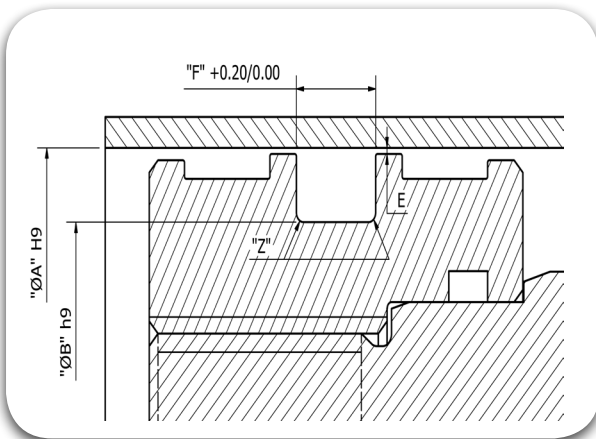
Nomenclature

Part No	PTC	1000	0845	063	T415	N
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	O-Ring Material Code	

Groove Details

Bore Diameter "A" H9 Standard Range	Radius "Z" max	Radial Clearance "E" max			
		<20 bar	<100 bar	<200 bar	<400 bar
6.00 - 13.90	0.20	0.20	0.10	0.08	0.05
14.00 - 24.90	0.20	0.25	0.15	0.10	0.07
25.00 - 45.90	0.20	0.35	0.20	0.15	0.08
46.00 - 124.90	0.40	0.50	0.25	0.20	0.10
125.00 - 180.00	0.60	0.60	0.30	0.25	0.12





50.00

Part No PTC 0500 0360 090

Groove Dimension ØA x ØB x F
50.00 x 36.00 x 9.00

55.00

Part No PTC 0550 0410 090

Groove Dimension ØA x ØB x F
55.00 x 41.00 x 9.00

60.00

Part No PTC 0600 0460 090

Groove Dimension ØA x ØB x F
60.00 x 46.00 x 9.00

63.00

Part No PTC 0630 0480 110

Groove Dimension ØA x ØB x F
63.00 x 48.00 x 11.00

65.00

Part No PTC 0650 0500 110

Groove Dimension ØA x ØB x F
65.00 x 50.00 x 11.00

70.00

Part No PTC 0700 0550 110

Groove Dimension ØA x ØB x F
70.00 x 55.00 x 11.00

75.00

Part No PTC 0750 0600 110

Groove Dimension ØA x ØB x F
75.00 x 60.00 x 11.00

80.00

Part No PTC 0800 0650 110

Groove Dimension ØA x ØB x F
80.00 x 65.00 x 11.00

85.00

Part No PTC 0850 0700 110

Groove Dimension ØA x ØB x F
85.00 x 70.00 x 11.00

90.00

Part No PTC 0900 0750 110

Groove Dimension ØA x ØB x F
90.00 x 75.00 x 11.00

95.00

Part No PTC 0950 0800 125

Groove Dimension ØA x ØB x F
95.00 x 80.00 x 12.50

100.00

Part No PTC 1000 0850 125

Groove Dimension ØA x ØB x F
100.00 x 85.00 x 12.50

105.00

Part No PTC 1050 0900 125

Groove Dimension ØA x ØB x F
105.00 x 90.00 x 12.50

110.00

Part No

PTC 1100 0950 125

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
110.00 x 95.00 x 12.50

115.00

Part No

PTC 1150 1000 125

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
115.00 x 100.00 x 12.50

120.00

Part No

PTC 1200 1050 125

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 105.00 x 12.50

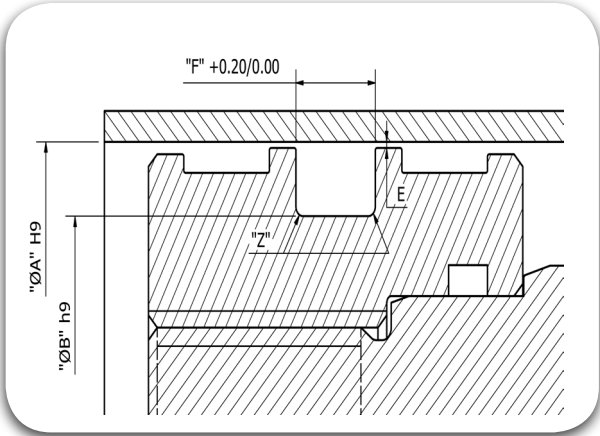
125.00

Part No

PTC 1250 1020 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
125.00 x 102.00 x 16.00



130.00

Part No

PTC 1300 1070 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 107.00 x 16.00

135.00

Part No

PTC 1350 1120 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
135.00 x 112.00 x 16.00

140.00

Part No

PTC 1400 1170 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 117.00 x 16.00

145.00

Part No

PTC 1450 1220 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
145.00 x 122.00 x 16.00

150.00

Part No

PTC 1500 1270 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
150.00 x 127.00 x 16.00

155.00

Part No

PTC 1550 1320 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
155.00 x 132.00 x 16.00

160.00

Part No

PTC 1600 1370 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
160.00 x 137.00 x 16.00

165.00

Part No

PTC 1650 1420 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
165.00 x 142.00 x 16.00

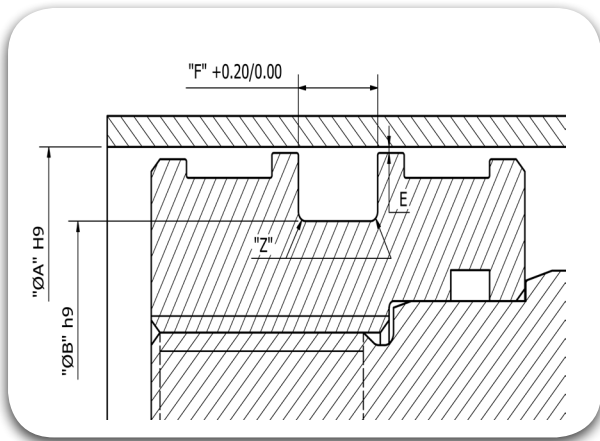
170.00

Part No

PTC 1700 1470 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
170.00 x 147.00 x 16.00



180.00

Part No	PTC 1800 1570 160				
Groove Dimension	ØA	x	ØB	x	F
	180.00		157.00		16.00

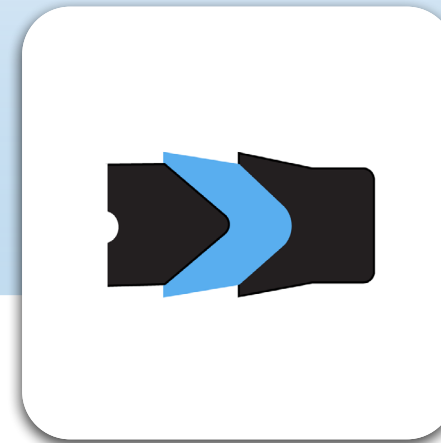
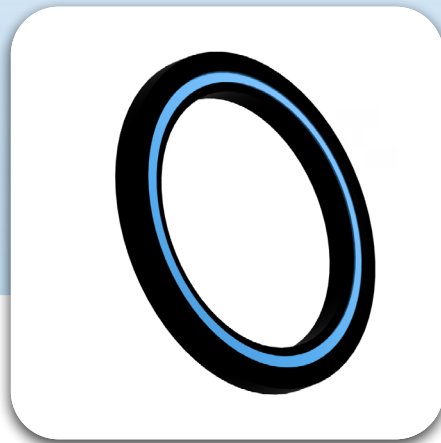
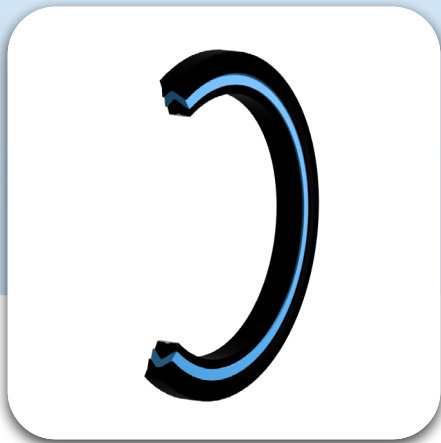


Piston Seals PHC









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Description

The PHC Seal is a single acting piston seal consists of a rugged central element in TRIAFLEX[®] with fabric reinforcement, performing the main sealing function and to avoid the extrusion it is again supported by cotton fabric reinforced TRIAFLEX[®] Ring. To ensure a uniform preload of the seal the energizer made of TRIAMIDE[®] (POM) is being used at the front.

 Diameter Range	Ø8.00 – Ø250.00
 Standard material	Sealing element TRIAFLEX [®] (NBR), Support Ring is of TRIAFLEX [®] (compounded with cotton fabric), Energiser are TRIAMIDE [®] (POM)
 Temperature(°C)	-40°C to 200°C (Based on Elastomer Material).
 Speed	≤ 0.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air etc, depending on Seal Compounds selected. Conditions).
 Pressure	≤ 400 bar

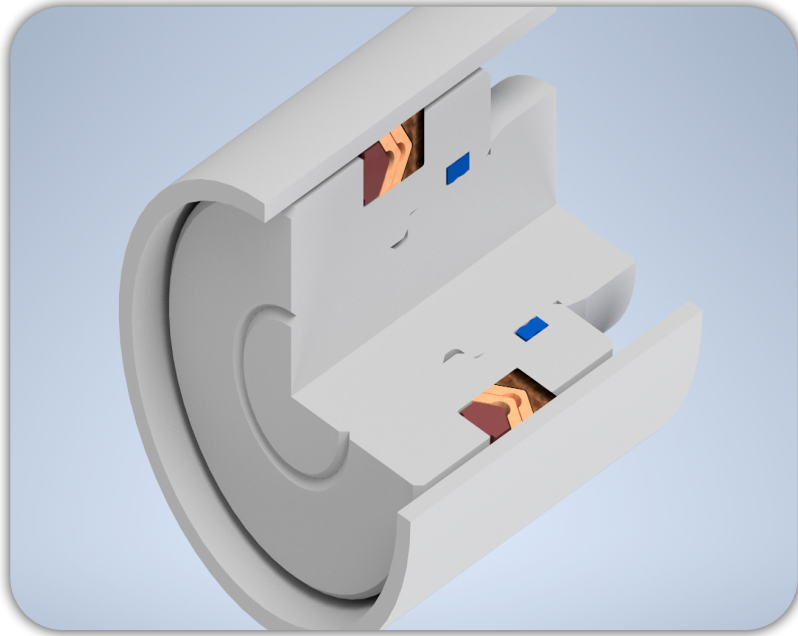
-  Reciprocating
-  Oscillating
-  Rotary
-  Helix
-  Static
-  Single Acting
-  Double Acting

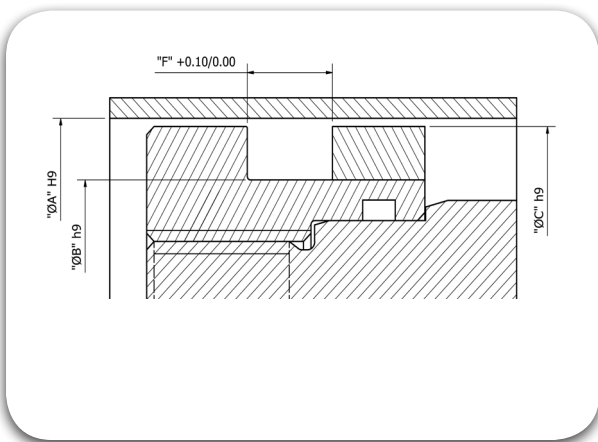
Material Details

Seal Material	Seal Material Code	Back-Up Ring Material	WearRing Material
TRIAFLEX® NBR	CX	TRIALEX® Polyester Elastomer	TRIAMIDE® Poly-Oxy Methylene

Nomenclature

Part No	PHC	0500	0350	115	CX
Seal profile		Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code





40.00

Part No PHC 0400 0250 115

Groove Dimension

ØA	ØB	ØC	F
40.00	25.00	39.00	11.50

50.00

Part No PHC 0500 0350 115

Groove Dimension

ØA	ØB	ØC	F
50.00	35.00	49.00	11.50

55.00

Part No PHC 0550 0400 115

Groove Dimension

ØA	ØB	ØC	F
55.00	40.00	54.00	11.50

63.00

Part No PHC 0630 0480 130

Groove Dimension

ØA	ØB	ØC	F
63.00	48.00	62.00	13.00

65.00

Part No PHC 0650 0500 115

Groove Dimension

ØA	ØB	ØC	F
65.00	50.00	64.00	11.50

80.00

Part No PHC 0800 0600 152

Groove Dimension

ØA	ØB	ØC	F
80.00	60.00	79.00	15.20

100.00

Part No PHC 1000 0800 212

Groove Dimension

ØA	ØB	ØC	F
100.00	80.00	99.00	21.20

125.00

Part No PHC 1250 1000 258

Groove Dimension

ØA	ØB	ØC	F
125.00	100.00	124.00	25.80

140.00

Part No PHC 1400 1150 258

Groove Dimension

ØA	ØB	ØC	F
140.00	115.00	139.00	25.80

160.00

Part No PHC 1600 1300 290

Groove Dimension

ØA	ØB	ØC	F
160.00	130.00	158.50	29.00

180.00

Part No PHC 1800 1500 315

Groove Dimension

ØA	ØB	ØC	F
180.00	150.00	178.50	31.50

200.00

Part No PHC 2000 1700 335

Groove Dimension

ØA	ØB	ØC	F
200.00	170.00	198.50	33.50

240.00

Part No PHC 2400 2100 335

Groove Dimension

ØA	ØB	ØC	F
240.00	210.00	238.40	33.50

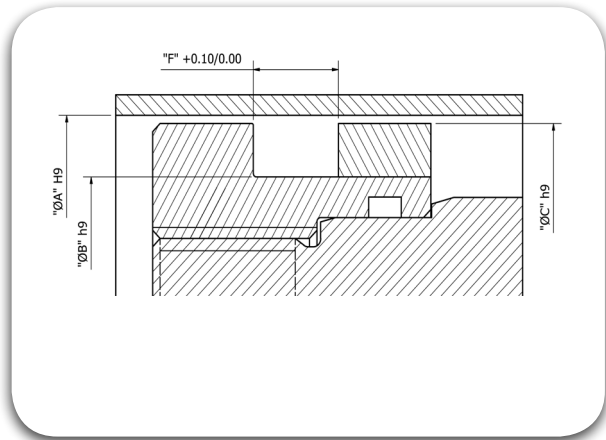
250.00

Part No

PHC 2500 2200 335

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
250.00		220.00		248.50		33.50

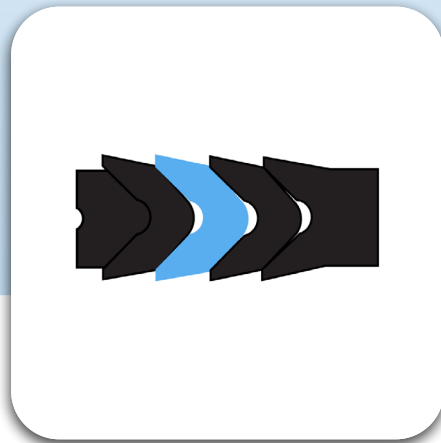




Piston Seals PHC3









#SealingExcellence



Description

The PHC3 Seal is similar to PHC seal and it is also a single acting piston seal consists of a rugged central element in TRIAFLEX[®] with fabric reinforcement, performing the main sealing function and to avoid the extrusion it is again supported by two cotton fabric reinforced TRIAFLEX[®] Ring. To ensure a uniform preload of the seal the energizer made of TRIAMIDE[®] (POM) is being used at the front which is again supported by TRIAFLEX[®] material.

 Diameter Range	Ø20.00 – Ø280.00
 Standard material	Sealing element TRIAFLEX [®] (NBR), Support Ring is of TRIAFLEX [®] (compounded with cotton fabric), Energiser are TRIAMIDE [®] (POM)
 Temperature(°C)	-40°C to 200°C (Based on Elastomer Material)
 Speed	≤ 0.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based).
 Pressure	≤ 400 bar

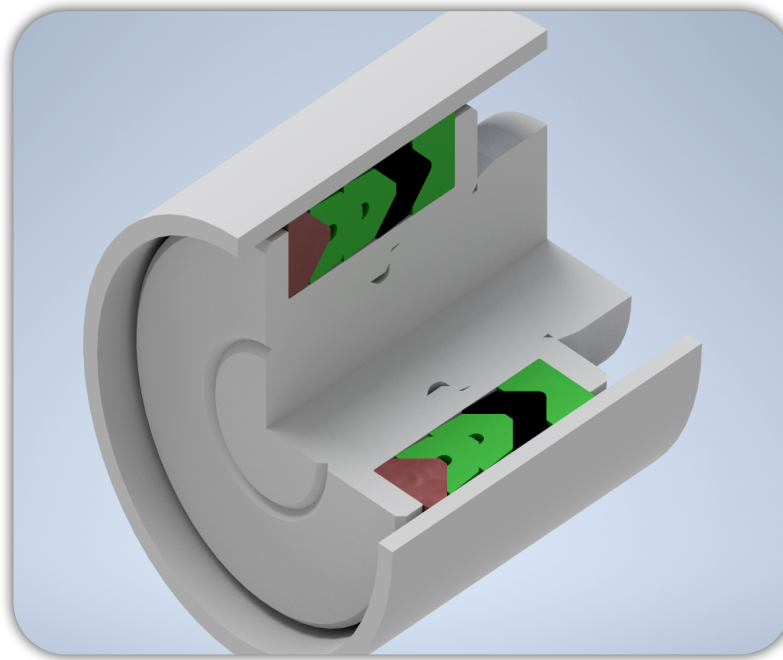
-  Reciprocating
-  Oscillating
-  Rotary
-  Helix
-  Static
-  Single Acting
-  Double Acting

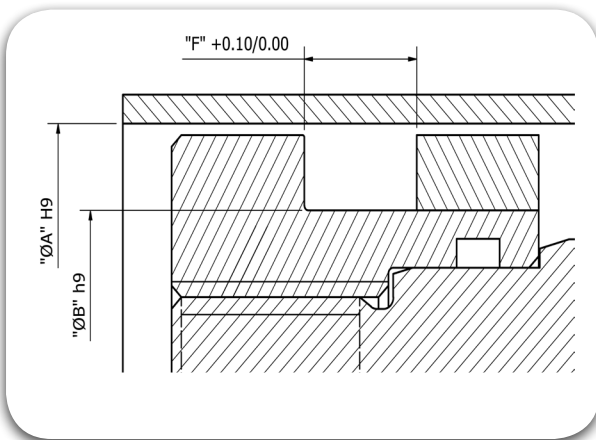
Material Details

Seal Material	Seal Material Code	BackUp Ring Material	WearRing Material
TRIAFLEX® NBR	CX	TRIALEX® Polyester Elastomer	TRIAMIDE® Poly-Oxy Methylene

Nomenclature

Part No	PHC3	0500	0350	115	CX
Seal profile		Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code





95.25

Part No PHC3 0952 0825 217

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 95.25 x 82.55 x 21.72

107.95

Part No PHC3 1079 0889 310

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 107.95 x 88.90 x 31.00

114.30

Part No PHC3 1143 0889 353

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 114.30 x 88.90 x 35.32

114.30

Part No PHC3 1143 0952 254

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 114.30 x 95.25 x 25.40

114.30

Part No PHC3 1143 0984 265

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 114.30 x 98.42 x 26.59

127.00

Part No PHC3 1270 1016 321

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 127.00 x 101.60 x 32.15

127.00

Part No PHC3 1270 1079 300

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 127.00 x 107.95 x 30.00

150.00

Part No PHC3 1500 1200 440

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 150.00 x 120.00 x 44.00

152.40

Part No PHC3 1524 1270 386

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 152.40 x 127.00 x 38.63

210.00

Part No PHC3 2100 1800 329

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 210.00 x 180.00 x 32.97

222.25

Part No PHC3 2222 1900 500

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 222.25 x 190.00 x 50.00

280.00

Part No PHC3 2800 2500 329

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
 280.00 x 250.00 x 32.97



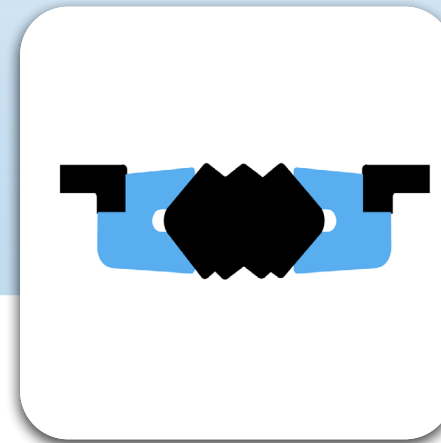
Piston Seals

PSM









TRIADA
TECHNOLOGIES

#SealingExcellence



Description

The PSM Compact Seal is a double acting piston seal consists of a rugged central element in TRIAFLEX[®], performing the main sealing function and supported by two slit U-cup Rings and two slit Wear Rings, which positions the Piston centrally within the Cylinder bore. These Back-Up Rings limits the extrusion of the TRIAFLEX[®] Sealing Element and the Wear Rings takes the responsibility of the radial loads.

 Diameter Range	Ø45.00 – Ø360.00
 Standard material	TRIAMIDE [®] (Acetal Resin) Wear Rings/ TRIAFLEX [®] T571 (NBR) Sealing Element / TRIAFLEX [®] T543 (Fabric Reinforced Nitrile) Support Rings.
 Temperature(°C)	-30° C to 130° C
 Speed	≤ 0.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air etc. depending on Seal Compounds selected.
 Pressure	≤ 400 bar

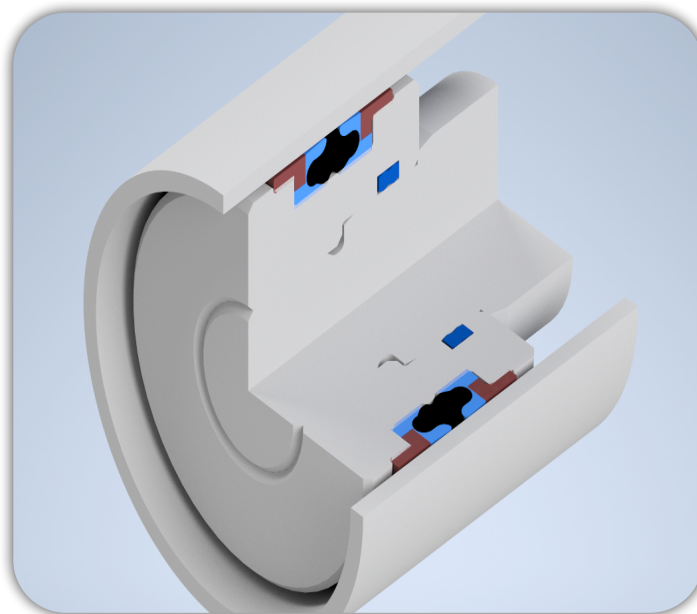
-  Reciprocating
-  Oscillating
-  Rotary
-  Helix
-  Static
-  Single Acting
-  Double Acting

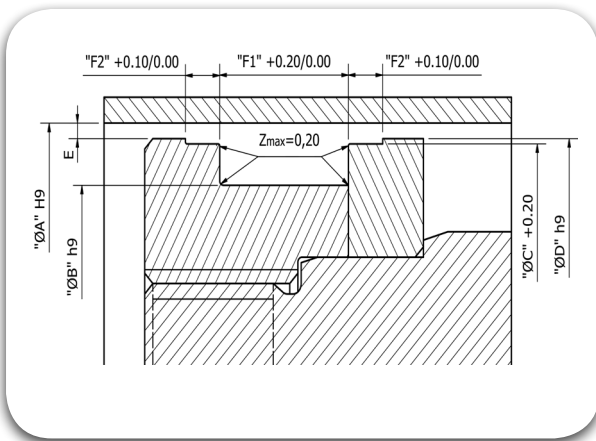
Material Details

Seal Material	Seal Material Code	Support Ring Material	WearRing Material
TRIAFLEX® T571 NBR 70	CXN	TRIALEX® T543 Fabric Reinforced Nitrile	TRIAMIDE® T485 Poly-Oxy Methylene

Nomenclature

Part No	PSM	0500	0350	115	CXN
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	





45.00

Part No

PSM 0450 0290 320

Groove Dimension

ØA	x	ØB	x	F1
45.00		29.00		32.00
F2	x	ØC	x	ØD
6.35		38.80		42.80

50.00

Part No

PSM 0500 0340 320

Groove Dimension

ØA	x	ØB	x	F1
50.00		34.00		32.00
F2	x	ØC	x	ØD
6.35		43.77		47.80

55.00

Part No

PSM 0550 0400 320

Groove Dimension

ØA	x	ØB	x	F1
55.00		40.00		32.00
F2	x	ØC	x	ØD
6.35		48.77		52.80

60.00

Part No

PSM 0600 0440 320

Groove Dimension

ØA	x	ØB	x	F1
60.00		44.00		32.00
F2	x	ØC	x	ØD
6.35		53.80		57.80

63.00

Part No

PSM 0630 0470 320

Groove Dimension

ØA	x	ØB	x	F1
63.00		47.00		32.00
F2	x	ØC	x	ØD
6.35		56.74		60.80

63.50

Part No

PSM 0635 0476 317

Groove Dimension

ØA	x	ØB	x	F1
63.50		47.62		31.75
F2	x	ØC	x	ØD
6.35		57.25		61.30

65.00

Part No

PSM 0650 0490 320

Groove Dimension

ØA	x	ØB	x	F1
65.00		49.00		32.00
F2	x	ØC	x	ØD
6.35		58.70		62.80

70.00

Part No

PSM 0700 0500 350

Groove Dimension

ØA	x	ØB	x	F1
70.00		50.00		35.00
F2	x	ØC	x	ØD
9.52		62.62		67.50

75.00

Part No

PSM 0750 0550 350

Groove Dimension

ØA	x	ØB	x	F1
75.00		55.00		35.00
F2	x	ØC	x	ØD
9.52		67.70		72.50

80.00

Part No

PSM 0800 0600 350

Groove Dimension

ØA	x	ØB	x	F1
80.00		60.00		35.00
F2	x	ØC	x	ØD
9.52		72.62		77.50

80.00

Part No

PSM 0800 0640 320

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
80.00		64.00		32.00
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		72.62		77.50

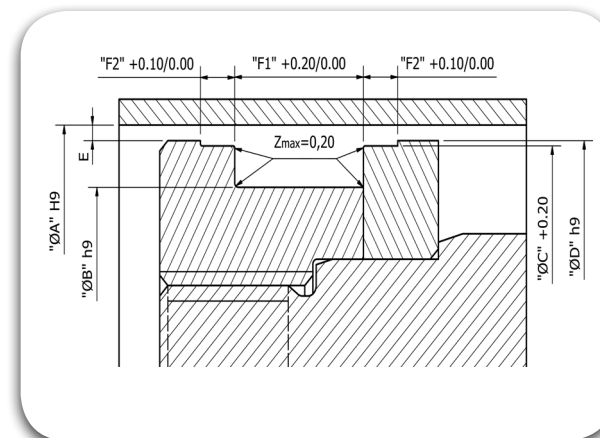
85.00

Part No

PSM 0850 0650 350

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
85.00		65.00		35.00
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		77.62		82.50



90.00

Part No

PSM 0900 0700 350

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
90.00		70.00		35.00
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		82.58		87.80

90.00

Part No

PSM 0900 0740 320

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
90.00		74.00		32.00
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		82.87		87.80

92.07

Part No

PSM 0920 0730 349

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
92.07		73.02		34.92
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		84.66		89.60

95.25

Part No

PSM 0952 0762 349

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
95.25		76.20		34.92
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		87.86		92.80

95.00

Part No

PSM 0950 0750 350

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
95.00		75.00		35.00
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		87.60		92.50

100.00

Part No

PSM 1000 0800 350

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
100.00		80.00		35.00
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		92.60		97.50

101.60

Part No

PSM 1016 0825 349

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
101.60		82.55		34.92
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		94.20		99.10

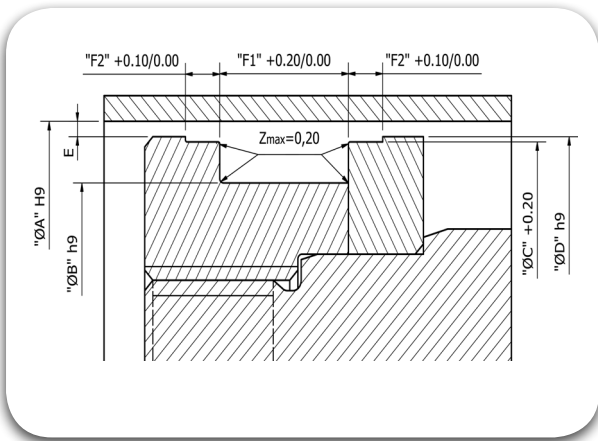
105.00

Part No

PSM 1050 0850 350

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
105.00		85.00		35.00
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		97.60		102.50



110.00

Part No

PSM 1100 0850 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
110.00		85.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		101.82		107.30

110.00

Part No

PSM 1100 0900 350

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
110.00		90.00		35.00
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		102.70		107.50

114.30

Part No

PSM 1143 0889 444

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
114.30		88.90		44.45
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		106.12		111.60

115.00

Part No

PSM 1150 0900 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
115.00		90.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		106.82		112.30

120.00

Part No

PSM 1200 0950 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
120.00		95.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		111.82		117.30

120.00

Part No

PSM 1200 1000 350

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
120.00		100.00		35.00
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		112.80		117.50

125.00

Part No

PSM 1250 1000 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
125.00		100.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		116.82		122.30

127.00

Part No

PSM 1270 1016 444

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
127.00		101.60		44.45
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		118.80		124.30

130.00

Part No

PSM 1300 1050 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
130.00		105.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		121.82		127.30

130.00

Part No

PSM 1300 1100 350

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
130.00		110.00		35.00
F2	x	$\varnothing C$	x	$\varnothing D$
9.52		122.70		127.30

135.00

Part No

PSM 1350 1100 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
135.00		110.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		126.82		132.30

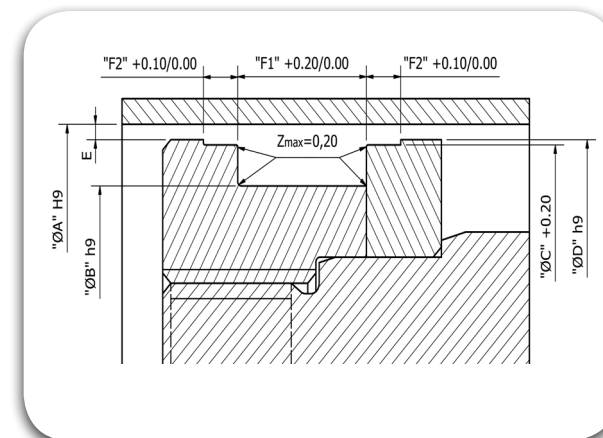
139.70

Part No

PSM 1397 1143 444

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
139.70		114.30		44.45
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		131.47		137.00



140.00

Part No

PSM 1400 1150 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
140.00		115.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		131.72		137.30

140.00

Part No

PSM 1400 1200 350

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
140.00		120.00		35.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		132.70		137.30

145.00

Part No

PSM 1450 1200 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
145.00		120.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		136.72		142.30

150.00

Part No

PSM 1500 1250 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
150.00		125.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		141.72		147.30

152.40

Part No

PSM 1524 1270 444

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
152.40		127.00		44.45
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		144.15		149.70

160.00

Part No

PSM 1600 1350 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
160.00		135.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		151.72		157.10

165.00

Part No

PSM 1650 1350 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
165.00		135.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		158.00		162.10

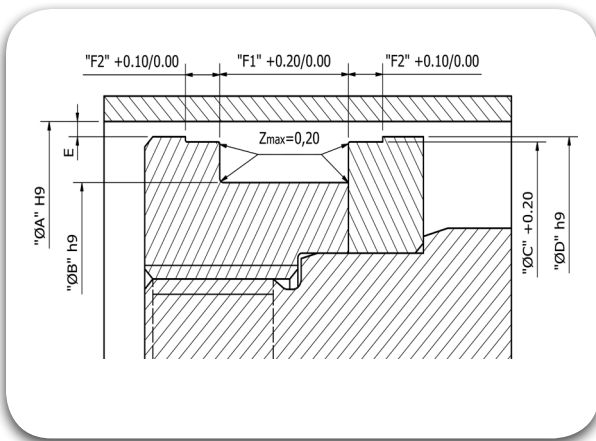
170.00

Part No

PSM 1700 1400 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
170.00		140.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		163.00		167.90



177.80

Part No

PSM 1778 1524 444

Groove Dimension

ØA	x	ØB	x	F1
177.80		152.40		44.45
F2	x	ØC	x	ØD
12.70		169.55		175.10

180.00

Part No

PSM 1800 1550 450

Groove Dimension

ØA	x	ØB	x	F1
180.00		155.00		45.00
F2	x	ØC	x	ØD
12.70		171.60		177.10

185.00

Part No

PSM 1850 1600 450

Groove Dimension

ØA	x	ØB	x	F1
185.00		160.00		45.00
F2	x	ØC	x	ØD
12.70		176.72		182.10

190.00

Part No

PSM 1900 1650 450

Groove Dimension

ØA	x	ØB	x	F1
190.00		165.00		45.00
F2	x	ØC	x	ØD
12.70		181.72		187.10

200.00

Part No

PSM 2000 1750 450

Groove Dimension

ØA	x	ØB	x	F1
200.00		175.00		45.00
F2	x	ØC	x	ØD
12.70		191.72		197.10

210.00

Part No

PSM 2100 1850 450

Groove Dimension

ØA	x	ØB	x	F1
210.00		185.00		45.00
F2	x	ØC	x	ØD
12.70		201.72		207.10

220.00

Part No

PSM 2200 1950 450

Groove Dimension

ØA	x	ØB	x	F1
220.00		195.00		45.00
F2	x	ØC	x	ØD
12.70		211.72		217.10

230.00

Part No

PSM 2300 2050 450

Groove Dimension

ØA	x	ØB	x	F1
230.00		205.00		45.00
F2	x	ØC	x	ØD
12.70		221.72		227.10

240.00

Part No

PSM 2400 2150 450

Groove Dimension

ØA	x	ØB	x	F1
240.00		215.00		45.00
F2	x	ØC	x	ØD
12.70		231.72		237.10

250.00

Part No

PSM 2500 2250 450

Groove Dimension

ØA	x	ØB	x	F1
250.00		225.00		45.00
F2	x	ØC	x	ØD
12.70		241.72		247.10

260.00

Part No

PSM 2600 2350 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
260.00		235.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		251.72		257.10

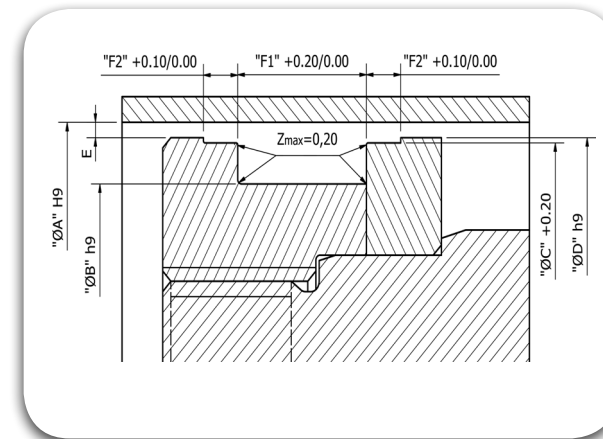
270.00

Part No

PSM 2700 2450 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
270.00		245.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		261.72		267.10



280.00

Part No

PSM 2800 2550 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
280.00		255.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		271.72		277.10

290.00

Part No

PSM 2900 2650 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
290.00		265.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		281.72		287.10

300.00

Part No

PSM 3000 2750 450

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
300.00		275.00		45.00
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		291.72		297.10

360.00

Part No

PSM 3600 3350 444

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
360.00		335.00		44.45
F2	x	$\varnothing C$	x	$\varnothing D$
12.70		351.76		357.30

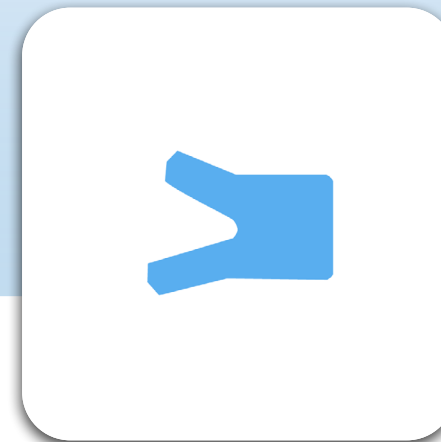


Piston Seals

PUA









#SealingExcellence



Description

The PUA is a single acting Piston U-Cup, the trimmed sealing lip provides an excellent static and dynamic tightness, the taper behind the lip reduces friction at the dynamic surface.

 Diameter Range	Ø10.00 – Ø2500.00
 Standard material	TRIATHANE® T479 (Polyurethane)
 Temperature(°C)	-35°C to 110°C
 Speed	≤ 0.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air etc depending on Seal Compounds selected.
 Pressure	≤ 400 bar

-  Reciprocating
-  Oscillating
-  Rotary
-  Helix
-  Static
-  Single Acting
-  Double Acting

Material Details

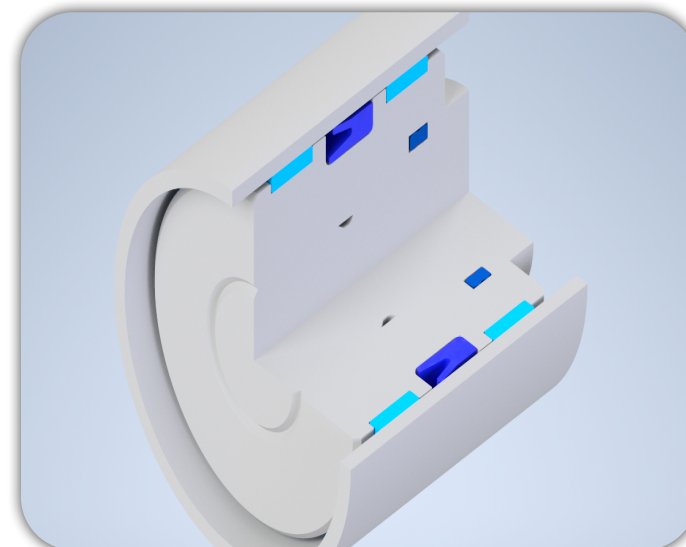
Seal Material	Seal Material Code
TRIATHANE® Polyurethane	T479
TRIAFLEX® NBR 90 Shore A	T591

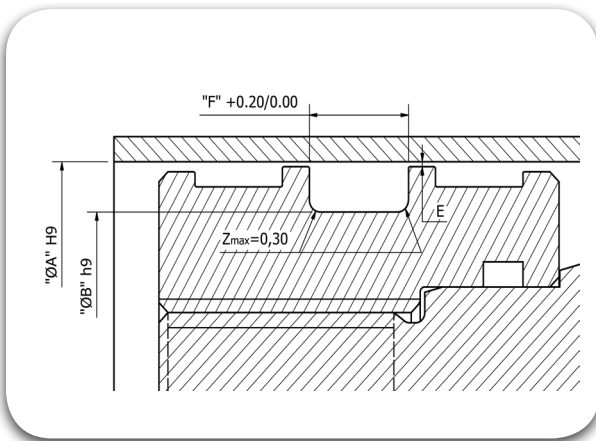
Nomenclature

Part No	PUA	0120	0050	060	T479
Seal profile					
Bore Dia x 10					
Groove Dia x 10					
Groove Width x 10					
Seal Material Code					

Groove Details

Operating Pressure Bar	Radial Clearance "E" max	
	ØA < 60mm	ØA > 60mm
50	0.40	0.50
100	0.30	0.40
200	0.20	0.30
300	0.15	0.20
400	0.10	0.15





12.00

Part No PUA 0120 0050 060

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
12.00		5.00		8.00		6.00

14.00

Part No PUA 0140 0080 068

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
14.00		8.00		11.00		6.80

16.00

Part No PUA 0160 0100 065

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
16.00		10.00		13.00		6.50

16.00

Part No PUA 0160 0100 090

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
16.00		10.00		13.00		9.00

20.00

Part No PUA 0200 0120 075

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
20.00		12.00		15.00		7.50

20.00

Part No PUA 2000 0140 060

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
20.00		14.00		17.00		6.00

22.00

Part No PUA 0220 0120 090

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
22.00		12.00		16.00		9.00

25.00

Part No PUA 0250 0100 110

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
25.00		10.00		14.00		11.00

25.00

Part No PUA 0250 0150 090

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
25.00		15.00		19.00		9.00

30.00

Part No PUA 0300 0150 105

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
30.00		15.00		19.00		10.50

30.00

Part No PUA 0300 0150 110

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
30.00		15.00		19.00		11.00

30.00

Part No PUA 0300 0200 090

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
30.00		20.00		24.00		9.00

30.00

Part No PUA 0300 0220 070

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
30.00		22.00		26.00		7.00

32.00

Part No PUA 0320 0220 090

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 32.00 x 22.00 x 26.00 x 9.00

32.00

Part No PUA 0320 0220 100

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 32.00 x 22.00 x 26.00 x 10.00

32.00

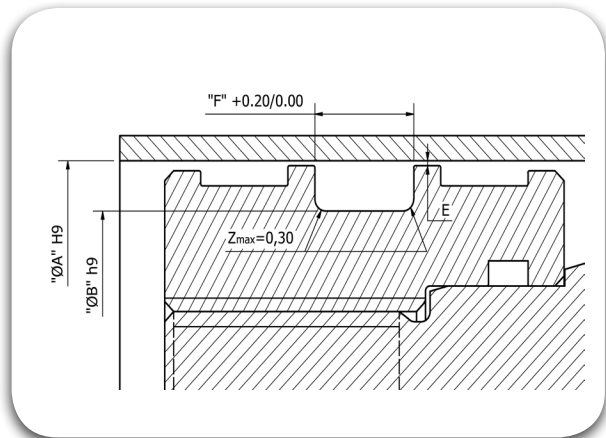
Part No PUA 0320 0260 060

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 32.00 x 26.00 x 28.00 x 6.00

34.00

Part No PUA 0340 0220 094

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 34.00 x 22.00 x 26.00 x 9.40



34.00

Part No PUA 0340 0220 100

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 34.00 x 22.00 x 26.00 x 10.00

34.00

Part No PUA 0340 0280 040

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 34.00 x 28.00 x 31.00 x 4.00

35.00

Part No PUA 0350 0200 110

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 35.00 x 20.00 x 25.00 x 11.00

35.00

Part No PUA 0350 0250 090

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 35.00 x 25.00 x 29.00 x 9.00

35.00

Part No PUA 0350 0270 110

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 35.00 x 27.00 x 31.00 x 11.00

36.00

Part No PUA 0360 0240 070

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 36.00 x 24.00 x 28.00 x 7.00

37.00

Part No PUA 0370 0210 130

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 37.00 x 21.00 x 25.00 x 13.00

38.00

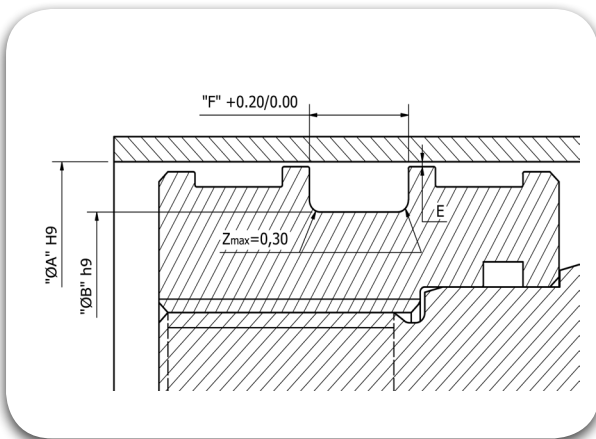
Part No PUA 0380 0310 052

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 38.00 x 31.00 x 34.00 x 5.20

40.00

Part No PUA 0400 0250 110

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
 40.00 x 25.00 x 30.00 x 11.00



40.00

Part No PUA 0400 0300 075

Groove Dimension

ØA	ØB	ØC	F
40.00	30.00	34.00	7.50

40.00

Part No PUA 0400 0300 110

Groove Dimension

ØA	ØB	ØC	F
40.00	30.00	34.00	11.00

40.00

Part No PUA 0400 0320 065

Groove Dimension

ØA	ØB	ØC	F
40.00	32.00	36.00	6.50

40.00

Part No PUA 0400 0320 090

Groove Dimension

ØA	ØB	ØC	F
40.00	32.00	36.00	9.00

40.00

Part No PUA 0400 0330 090

Groove Dimension

ØA	ØB	ØC	F
40.00	33.00	36.00	9.00

42.00

Part No PUA 0420 0320 110

Groove Dimension

ØA	ØB	ØC	F
42.00	32.00	36.00	11.00

42.00

Part No PUA 0420 0345 047

Groove Dimension

ØA	ØB	ØC	F
42.00	34.50	38.00	4.70

43.00

Part No PUA 0430 0250 100

Groove Dimension

ØA	ØB	ØC	F
43.00	25.00	29.00	10.00

44.00

Part No PUA 0440 0200 120

Groove Dimension

ØA	ØB	ØC	F
44.00	20.00	25.00	12.00

44.00

Part No PUA 0440 0250 120

Groove Dimension

ØA	ØB	ØC	F
44.00	25.00	30.00	12.00

45.00

Part No PUA 0450 0285 130

Groove Dimension

ØA	ØB	ØC	F
45.00	28.50	33.00	13.00

45.00

Part No PUA 0450 0300 110

Groove Dimension

ØA	ØB	ØC	F
45.00	30.00	35.00	11.00

50.00

Part No PUA 0500 0300 120

Groove Dimension

ØA	ØB	ØC	F
50.00	30.00	35.00	13.00

50.00

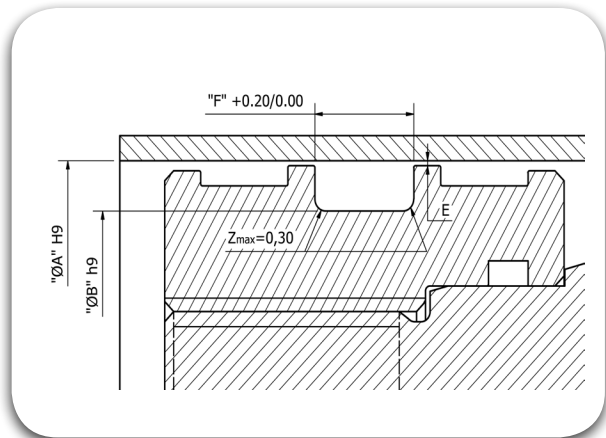
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Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
50.00 x 32.00 x 37.00 x 11.00

50.00

Part No PUA 0500 0350 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
50.00 x 35.00 x 40.00 x 9.50



50.00

Part No PUA 0500 0350 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
50.00 x 35.00 x 40.00 x 11.00

50.00

Part No PUA 0500 0400 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
50.00 x 40.00 x 44.00 x 5.50

50.00

Part No PUA 0500 0400 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
50.00 x 40.00 x 44.00 x 9.00

50.00

Part No PUA 0500 0400 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
50.00 x 40.00 x 44.00 x 11.00

50.00

Part No PUA 0500 0420 060

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
50.00 x 42.00 x 45.00 x 6.00

50.00

Part No PUA 0500 0420 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
50.00 x 42.00 x 45.00 x 9.00

50.00

Part No PUA 0500 0420 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
50.00 x 42.00 x 45.00 x 11.00

50.80

Part No PUA 0508 0408 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
50.80 x 40.80 x 45.00 x 8.00

52.00

Part No PUA 0520 0420 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
52.00 x 42.00 x 46.00 x 6.50

52.00

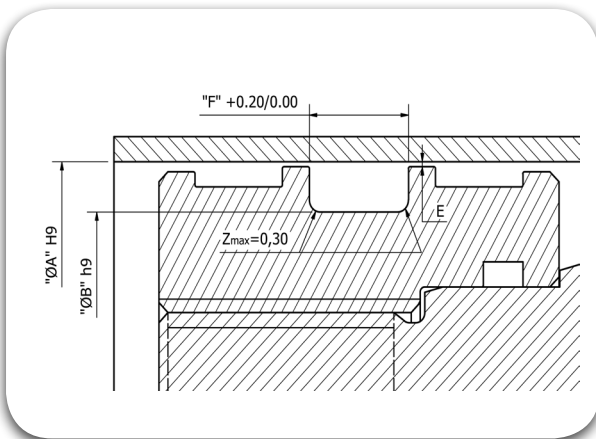
Part No PUA 0520 0420 106

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
52.00 x 42.00 x 46.00 x 10.60

55.00

Part No PUA 0550 0400 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
55.00 x 40.00 x 45.00 x 11.00



55.00

Part No PUA 0550 0450 110

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
55.00		45.00		48.00		11.00

55.00

Part No PUA 0550 0470 063

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
55.00		47.00		50.00		6.30

60.00

Part No PUA 0600 0400 110

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
60.00		40.00		45.00		11.00

60.00

Part No PUA 0600 0400 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
60.00		40.00		45.00		13.00

60.00

Part No PUA 0600 0400 145

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
60.00		40.00		45.00		14.50

60.00

Part No PUA 0600 0450 110

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
60.00		45.00		50.00		11.00

60.00

Part No PUA 0600 0500 055

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
60.00		50.00		54.00		5.50

60.00

Part No PUA 0600 0500 080

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
60.00		50.00		54.00		8.00

60.00

Part No PUA 0600 0500 110

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
60.00		50.00		54.00		11.00

60.00

Part No PUA 0600 0520 080

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
60.00		52.00		55.00		9.00

63.00

Part No PUA 0630 0430 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
63.00		43.00		47.00		13.00

63.00

Part No PUA 0630 0450 110

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
63.00		45.00		50.00		11.00

63.00

Part No PUA 0630 0450 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
63.00		45.00		50.00		13.00

63.00

Part No PUA 0630 0480 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
63.00 x 48.00 x 53.00 x 9.50

63.00

Part No PUA 0630 0480 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
63.00 x 48.00 x 53.00 x 11.00

63.00

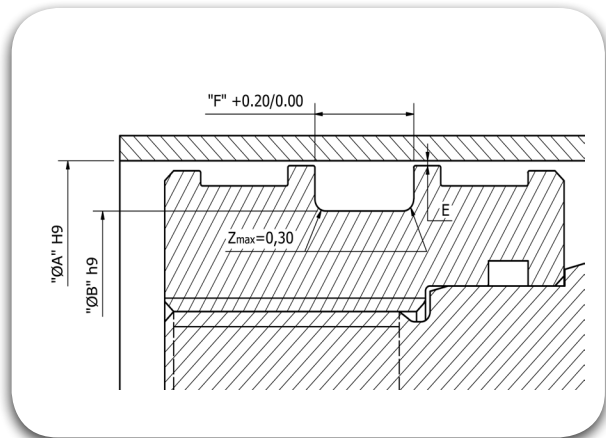
Part No PUA 0630 0480 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
63.00 x 48.00 x 53.00 x 13.00

63.00

Part No PUA 0630 0530 070

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
63.00 x 53.00 x 57.00 x 7.00



63.00

Part No PUA 0630 0530 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
63.00 x 53.00 x 57.00 x 8.00

63.00

Part No PUA 0630 0530 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
63.00 x 53.00 x 57.00 x 13.00

65.00

Part No PUA 0650 0450 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
65.00 x 45.00 x 50.00 x 13.00

65.00

Part No PUA 0650 0450 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
65.00 x 45.00 x 50.00 x 14.50

65.00

Part No PUA 0650 0500 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
65.00 x 50.00 x 55.00 x 11.00

65.00

Part No PUA 0650 0500 125

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
65.00 x 50.00 x 55.00 x 12.50

65.00

Part No PUA 0650 0550 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
65.00 x 55.00 x 59.00 x 11.00

65.00

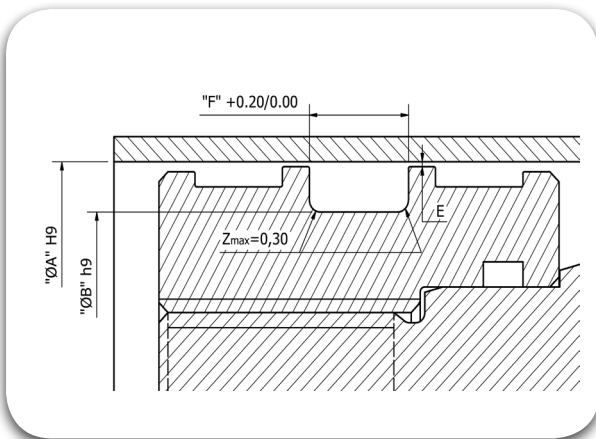
Part No PUA 0650 0550 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
65.00 x 55.00 x 59.00 x 14.50

68.00

Part No PUA 0680 0480 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
68.00 x 48.00 x 53.00 x 11.00



70.00

Part No PUA 0700 0500 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
70.00		50.00		55.00		13.00

70.00

Part No PUA 0700 0500 145

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
70.00		50.00		55.00		14.50

70.00

Part No PUA 0700 0500 160

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
70.00		50.00		55.00		16.00

70.00

Part No PUA 0700 0550 105

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
70.00		55.00		60.00		10.50

70.00

Part No PUA 0700 0550 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
70.00		55.00		60.00		13.00

70.00

Part No PUA 0700 0600 080

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
70.00		60.00		64.00		8.00

70.00

Part No PUA 0700 0600 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
70.00		60.00		64.00		13.00

70.00

Part No PUA 0700 0600 145

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
70.00		60.00		64.00		14.50

70.00

Part No PUA 0700 0620 085

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
70.00		62.00		65.00		8.50

72.00

Part No PUA 0720 0580 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
72.00		58.00		62.00		13.00

75.00

Part No PUA 0750 0500 150

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
75.00		50.00		55.00		15.00

75.00

Part No PUA 0750 0550 145

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
75.00		55.00		60.00		14.50

75.00

Part No PUA 0750 0650 055

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
75.00		65.00		69.00		5.50

75.00

Part No PUA 0750 0650 075

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
75.00 x 65.00 x 69.00 x 7.50

75.00

Part No PUA 0750 0650 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
75.00 x 65.00 x 69.00 x 11.00

75.00

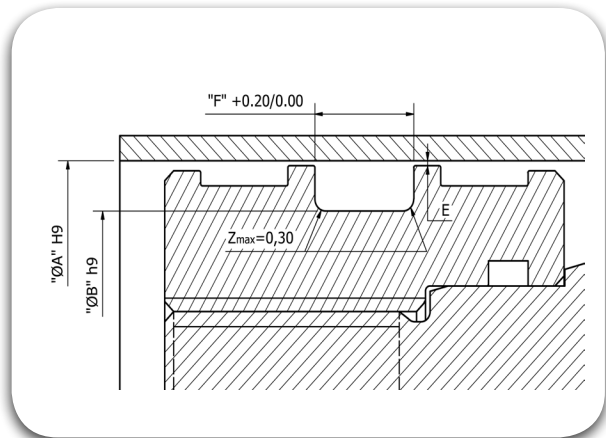
Part No PUA 0750 0650 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
75.00 x 65.00 x 69.00 x 8.00

75.00

Part No PUA 0750 0650 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
75.00 x 65.00 x 69.00 x 14.50



76.00

Part No PUA 0760 0560 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
76.00 x 56.00 x 61.00 x 13.00

80.00

Part No PUA 0800 0600 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
80.00 x 60.00 x 65.00 x 11.00

80.00

Part No PUA 0800 0600 125

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
80.00 x 60.00 x 65.00 x 12.50

80.00

Part No PUA 0800 0600 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
80.00 x 60.00 x 65.00 x 13.00

80.00

Part No PUA 0800 0600 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
80.00 x 60.00 x 65.00 x 14.50

80.00

Part No PUA 0800 0650 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
80.00 x 65.00 x 70.00 x 13.00

80.00

Part No PUA 0800 0680 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
80.00 x 68.00 x 72.00 x 9.50

80.00

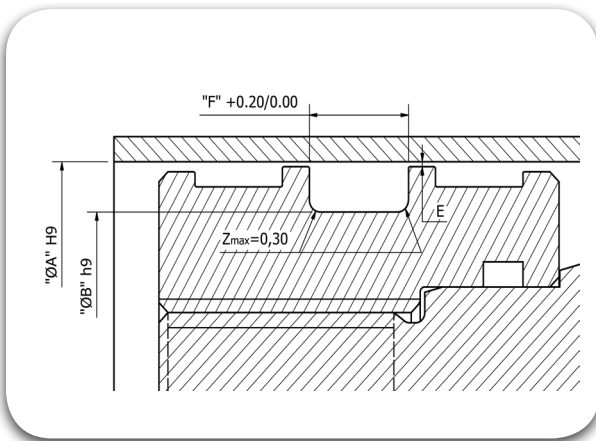
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Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
80.00 x 70.00 x 74.00 x 13.00

80.00

Part No PUA 0800 0700 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
80.00 x 70.00 x 74.00 x 8.00



80.00

Part No PUA 0800 0720 130

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
80.00 x 72.00 x 75.00 x 13.00

85.00

Part No PUA 0850 0650 130

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
85.00 x 65.00 x 70.00 x 13.00

85.00

Part No PUA 0850 0650 145

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
85.00 x 65.00 x 70.00 x 14.50

85.00

Part No PUA 0850 0700 130

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
85.00 x 70.00 x 75.00 x 13.00

85.00

Part No PUA 0850 0750 110

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
85.00 x 75.00 x 79.00 x 11.00

85.00

Part No PUA 0850 0750 130

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
85.00 x 75.00 x 79.00 x 13.00

90.00

Part No PUA 0900 0700 130

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
90.00 x 70.00 x 75.00 x 13.00

90.00

Part No PUA 0900 0700 145

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
90.00 x 70.00 x 75.00 x 14.50

90.00

Part No PUA 0900 0750 130

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
90.00 x 75.00 x 80.00 x 13.00

90.00

Part No PUA 0900 0800 055

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
90.00 x 80.00 x 84.00 x 5.50

90.00

Part No PUA 0900 0800 110

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
90.00 x 80.00 x 84.00 x 11.00

90.00

Part No PUA 0900 0800 140

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
90.00 x 80.00 x 84.00 x 14.00

95.00

Part No PUA 0950 0750 145

Groove Dimension $\varnothing A \times \varnothing B \times \varnothing C \times F$
95.00 x 75.00 x 80.00 x 14.50

95.00

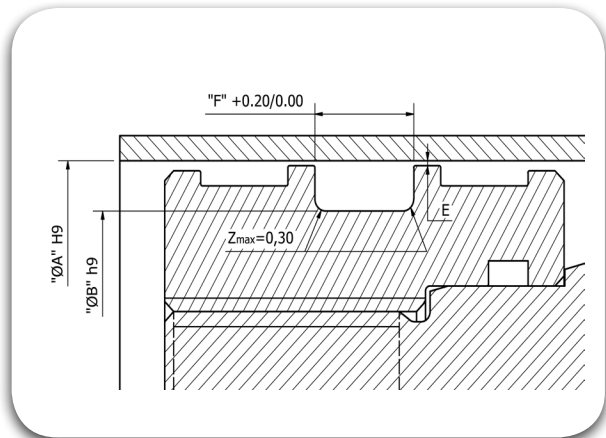
Part No PUA 0950 0800 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
95.00 x 80.00 x 85.00 x 13.00

95.00

Part No PUA 0950 0850 075

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
95.00 x 85.00 x 89.00 x 7.50



95.00

Part No PUA 0950 0850 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
95.00 x 85.00 x 89.00 x 8.00

95.00

Part No PUA 0950 0850 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
95.00 x 85.00 x 89.00 x 9.50

95.00

Part No PUA 0950 0850 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
95.00 x 85.00 x 89.00 x 14.50

100.00

Part No PUA 1000 0800 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
100.00 x 80.00 x 85.00 x 11.00

100.00

Part No PUA 1000 0800 125

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
100.00 x 80.00 x 85.00 x 12.50

100.00

Part No PUA 1000 0800 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
100.00 x 80.00 x 85.00 x 13.00

100.00

Part No PUA 1000 0800 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
100.00 x 80.00 x 85.00 x 14.50

100.00

Part No PUA 1000 0850 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
100.00 x 85.00 x 90.00 x 9.50

100.00

Part No PUA 1000 0850 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
100.00 x 85.00 x 90.00 x 13.00

100.00

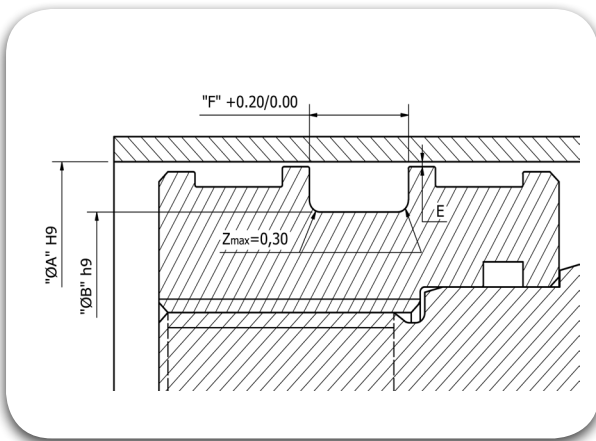
Part No PUA 1000 0860 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
100.00 x 86.00 x 90.00 x 13.00

100.00

Part No PUA 1000 0880 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x $\varnothing C$ x F
100.00 x 88.00 x 93.00 x 9.50



100.00

Part No PUA 1000 0900 080

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
100.00		90.00		94.00		8.00

100.00

Part No PUA 1000 0900 115

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
100.00		90.00		94.00		11.50

101.60

Part No PUA 1016 0800 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
101.60		80.00		85.00		13.00

105.00

Part No PUA 1050 0900 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
105.00		90.00		95.00		13.00

110.00

Part No PUA 1100 0900 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
110.00		90.00		95.00		13.00

110.00

Part No PUA 1100 0950 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
110.00		95.00		100.00		13.00

110.00

Part No PUA 1100 1000 080

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
110.00		100.00		104.00		8.00

110.00

Part No PUA 1100 1000 145

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
110.00		100.00		104.00		14.50

115.00

Part No PUA 1150 1000 115

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
115.00		100.00		105.00		11.50

115.00

Part No PUA 1150 1000 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
115.00		100.00		105.00		13.00

115.00

Part No PUA 1150 1050 145

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
115.00		105.00		109.00		14.50

120.00

Part No PUA 1200 0950 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
120.00		95.00		100.00		13.00

120.00

Part No PUA 1200 1000 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
120.00		100.00		105.00		13.00

120.00

Part No

PUA 1200 1000 145

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
120.00		100.00		105.00		14.50

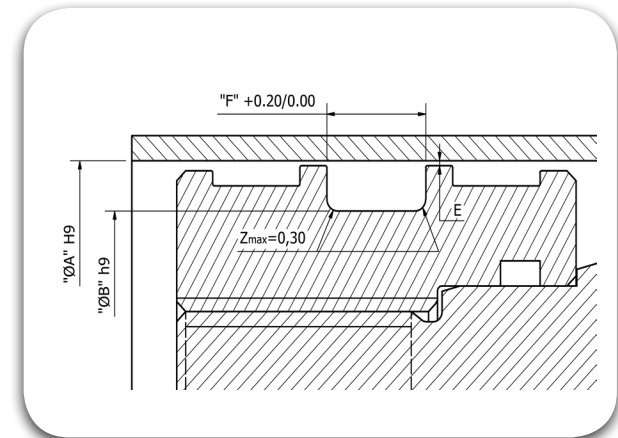
120.00

Part No

PUA 1200 1030 170

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
120.00		103.00		108.00		17.00



120.00

Part No

PUA 1200 1050 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
120.00		105.00		110.00		13.00

125.00

Part No

PUA 1250 1000 160

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
125.00		100.00		105.00		16.00

125.00

Part No

PUA 1250 1050 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
125.00		105.00		110.00		13.00

125.00

Part No

PUA 1250 1050 160

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
125.00		105.00		110.00		16.00

125.00

Part No

PUA 1250 1100 110

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
125.00		110.00		115.00		11.00

125.00

Part No

PUA 1250 1100 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
125.00		110.00		115.00		13.00

125.00

Part No

PUA 1250 1150 080

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
125.00		115.00		119.00		8.00

125.00

Part No

PUA 1250 1150 160

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
125.00		115.00		119.00		16.00

130.00

Part No

PUA 1300 1100 160

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
130.00		110.00		115.00		16.00

140.00

Part No

PUA 1400 1200 130

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
140.00		120.00		125.00		13.00

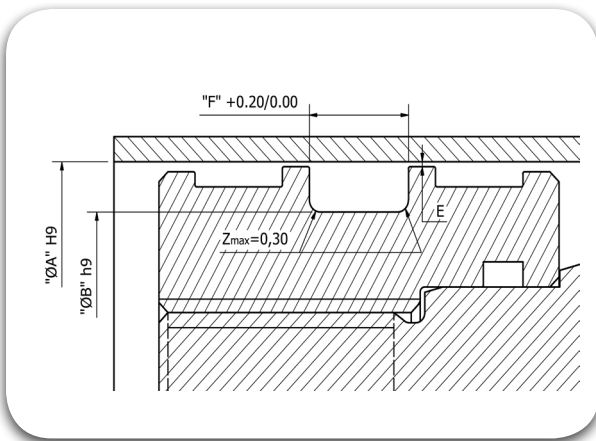
150.00

Part No

PUA 1500 1300 160

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
150.00		130.00		135.00		16.00



160.00

Part No

PUA 1600 1400 125

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
160.00		140.00		145.00		12.50

165.00

Part No

PUA 1650 1450 160

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
165.00		145.00		150.00		16.00

180.00

Part No

PUA 1800 1600 125

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
180.00		160.00		165.00		12.50

200.00

Part No

PUA 2000 1700 200

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
200.00		170.00		175.00		20.00

200.00

Part No

PUA 2000 1750 160

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
200.00		175.00		180.00		16.00

250.00

Part No

PUA 2500 2200 200

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
250.00		220.00		225.00		20.00

250.00

Part No

PUA 2500 2250 160

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	$\varnothing C$	x	F
250.00		225.00		230.00		16.00



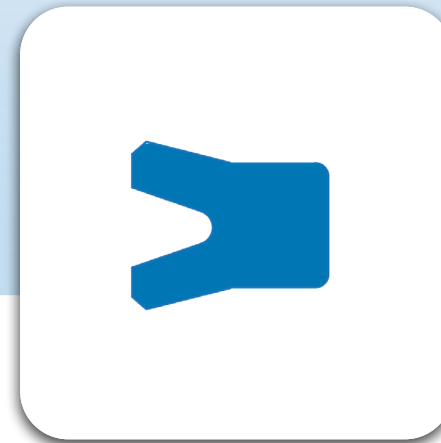
Piston Seals

PPS



TRIADA
TECHNOLOGIES







#SealingExcellence



Description

The PPS is a single acting Symmetrical U-Cup, the TRIATHANE[®] (polyurethane) material used in this U-Cup provides high wear resistance, the taper behind the lip reduces friction at the dynamic surface.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø10.00 – Ø2500.00
 Standard material	TRIATHANE [®] T479 (Polyurethane)
 Temperature(°C)	-30°C to 130°C
 Speed	≤ 0.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air etc, depending on Seal Compounds selected. depending on Seal Compounds selected.
 Pressure	≤ 400 bar

Material Details

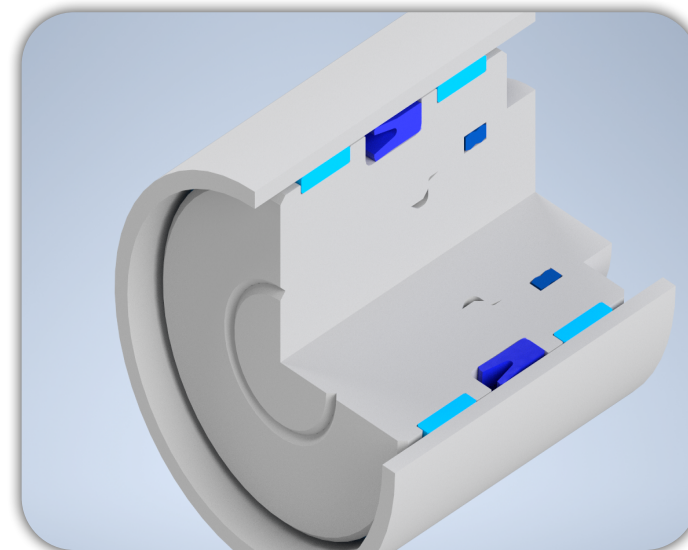
Seal Material	Seal Material Code
TRIATHANE® Polyurethane	T479
TRIAFLEX® NBR 90 Shore A	T591

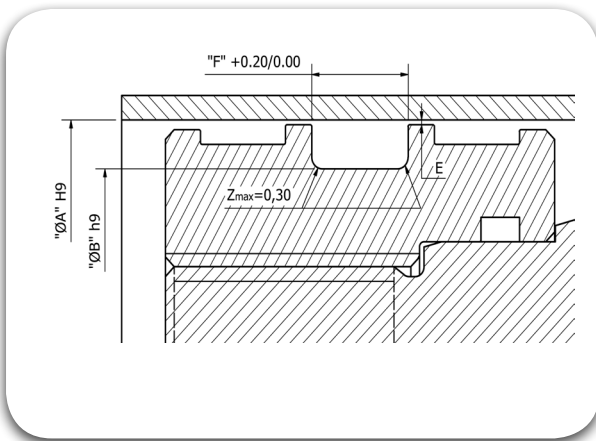
Nomenclature

Part No	PPS	0120	0050	060	T479
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	

Groove Details

Operating Pressure Bar	Radial Clearance "E" max	
	ØA < 60mm	ØA > 60mm
50	0.40	0.50
100	0.30	0.40
200	0.20	0.30
300	0.15	0.20
400	0.10	0.15





9.00

Part No PPS 0090 0030 050

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
9.00 x 3.00 x 5.00

9.00

Part No PPS 0090 0040 045

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
9.00 x 4.00 x 4.50

10.00

Part No PPS 0100 0040 045

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
10.00 x 4.00 x 4.50

10.00

Part No PPS 0100 0040 050

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
10.00 x 4.00 x 5.00

11.00

Part No PPS 0110 0045 055

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
11.00 x 4.50 x 5.50

12.00

Part No PPS 0120 0040 045

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
12.00 x 4.00 x 4.50

12.00

Part No PPS 0120 0050 050

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
12.00 x 5.00 x 5.00

12.00

Part No PPS 0120 0050 055

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
12.00 x 5.00 x 5.50

12.00

Part No PPS 0120 0050 065

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
12.00 x 5.00 x 6.50

12.00

Part No PPS 0120 0050 070

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
12.00 x 5.00 x 7.00

12.00

Part No PPS 0120 0060 045

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
12.00 x 6.00 x 4.50

12.00

Part No PPS 0120 0060 060

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
12.00 x 6.00 x 6.00

12.00

Part No PPS 0120 0060 065

Groove Dimension $\text{ØA} \times \text{ØB} \times F$
12.00 x 6.00 x 6.50

12.00

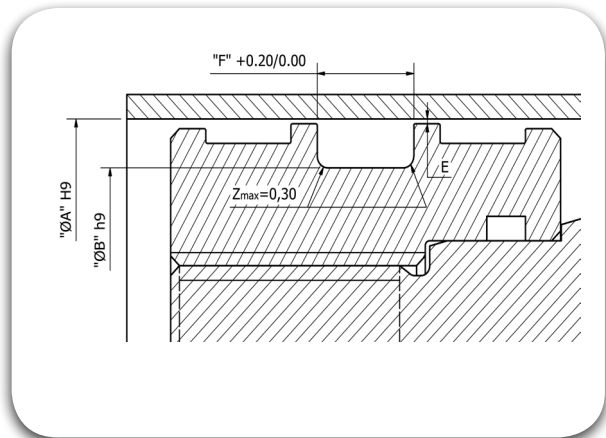
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
12.00 x 6.00 x 9.00

12.00

Part No PPS 0120 0080 035

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
12.00 x 8.00 x 3.50



12.00

Part No PPS 0120 0080 060

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
12.00 x 8.00 x 6.00

12.50

Part No PPS 0125 0045 050

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
12.50 x 4.50 x 5.00

12.70

Part No PPS 0127 0050 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
12.70 x 5.00 x 9.00

12.70

Part No PPS 0127 0060 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
12.70 x 6.00 x 6.50

12.70

Part No PPS 0127 0063 045

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
12.70 x 6.30 x 4.50

13.00

Part No PPS 0130 0050 045

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
13.00 x 5.00 x 4.50

13.50

Part No PPS 0135 0090 050

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
13.50 x 9.00 x 5.00

14.00

Part No PPS 0140 0070 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
14.00 x 7.00 x 4.20

14.00

Part No PPS 0140 0080 070

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
14.00 x 8.00 x 7.00

15.00

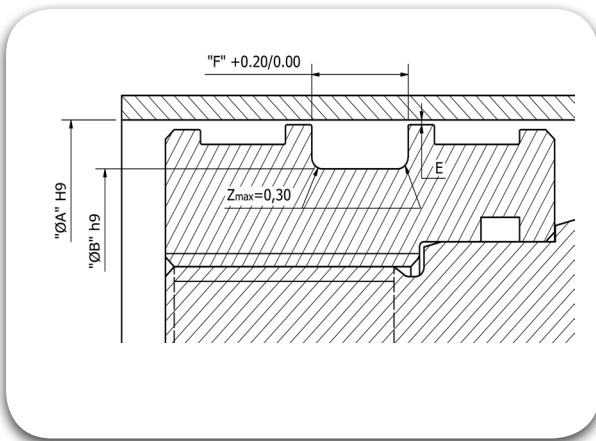
Part No PPS 0150 0060 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
15.00 x 6.00 x 9.00

15.00

Part No PPS 0150 0070 045

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
15.00 x 7.00 x 4.50



15.00

Part No PPS 0150 0070 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
15.00 x 7.00 x 8.00

15.00

Part No PPS 0150 0080 063

Groove Dimension $\varnothing A \times \varnothing B \times F$
15.00 x 8.00 x 6.30

15.00

Part No PPS 0150 0080 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
15.00 x 8.00 x 9.00

15.00

Part No PPS 0150 0090 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
15.00 x 9.00 x 9.00

16.00

Part No PPS 0160 0060 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
16.00 x 6.00 x 5.50

16.00

Part No PPS 0160 0080 045

Groove Dimension $\varnothing A \times \varnothing B \times F$
16.00 x 8.00 x 4.50

16.00

Part No PPS 0160 0080 063

Groove Dimension $\varnothing A \times \varnothing B \times F$
16.00 x 8.00 x 6.30

16.00

Part No PPS 0160 0080 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
16.00 x 8.00 x 8.00

16.00

Part No PPS 0160 0100 045

Groove Dimension $\varnothing A \times \varnothing B \times F$
16.00 x 10.00 x 4.50

16.00

Part No PPS 0160 0100 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
16.00 x 10.00 x 6.50

17.00

Part No PPS 0170 0110 050

Groove Dimension $\varnothing A \times \varnothing B \times F$
17.00 x 11.00 x 5.00

18.00

Part No PPS 0180 0080 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
18.00 x 8.00 x 5.50

18.00

Part No PPS 0180 0080 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
18.00 x 8.00 x 8.00

18.00

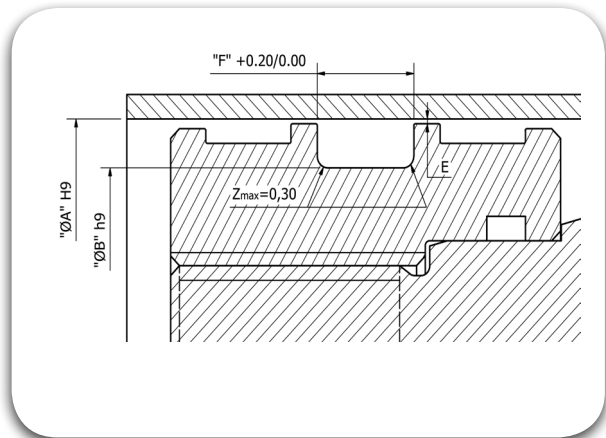
Part No PPS 0180 0100 045

Groove Dimension $\varnothing A \times \varnothing B \times F$
18.00 x 10.00 x 4.50

18.00

Part No PPS 0180 0100 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
18.00 x 10.00 x 7.00



18.00

Part No PPS 0180 0100 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
18.00 x 10.00 x 9.00

18.00

Part No PPS 0180 0120 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
18.00 x 12.00 x 5.50

18.00

Part No PPS 0180 0120 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
18.00 x 12.00 x 7.00

19.00

Part No PPS 0190 0090 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
19.00 x 9.00 x 7.00

19.00

Part No PPS 0190 0120 060

Groove Dimension $\varnothing A \times \varnothing B \times F$
19.00 x 12.00 x 6.00

20.00

Part No PPS 0200 0080 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
20.00 x 8.00 x 7.00

20.00

Part No PPS 0200 0100 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
20.00 x 10.00 x 5.50

20.00

Part No PPS 0200 0100 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
20.00 x 10.00 x 8.00

20.00

Part No PPS 0200 0120 045

Groove Dimension $\varnothing A \times \varnothing B \times F$
20.00 x 12.00 x 4.50

20.00

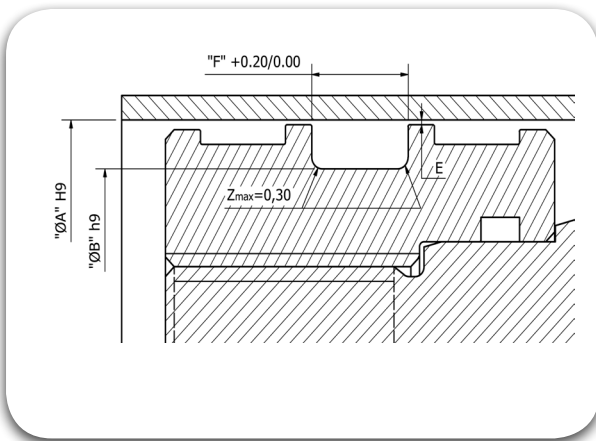
Part No PPS 0200 0120 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
20.00 x 12.00 x 8.00

20.00

Part No PPS 0200 0120 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
20.00 x 12.00 x 9.00



20.00

Part No PPS 0200 0130 070

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
20.00 x 13.00 x 7.00

20.00

Part No PPS 0200 0140 053

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
20.00 x 14.00 x 5.30

20.50

Part No PPS 0205 0110 070

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
20.50 x 11.00 x 7.00

20.60

Part No PPS 0206 0143 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
20.60 x 14.30 x 5.50

21.00

Part No PPS 0210 0130 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
21.00 x 13.00 x 6.50

21.00

Part No PPS 0210 0147 070

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
21.00 x 14.70 x 7.00

22.00

Part No PPS 0220 0080 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
22.00 x 8.00 x 9.00

22.00

Part No PPS 0220 0090 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
22.00 x 9.00 x 9.00

22.00

Part No PPS 0220 0100 070

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
22.00 x 10.00 x 7.00

22.00

Part No PPS 0220 0140 045

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
22.00 x 14.00 x 4.50

22.00

Part No PPS 0220 0140 070

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
22.00 x 14.00 x 7.00

22.00

Part No PPS 0220 0140 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
22.00 x 14.00 x 9.00

22.00

Part No PPS 0220 0140 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
22.00 x 14.00 x 12.00

22.00

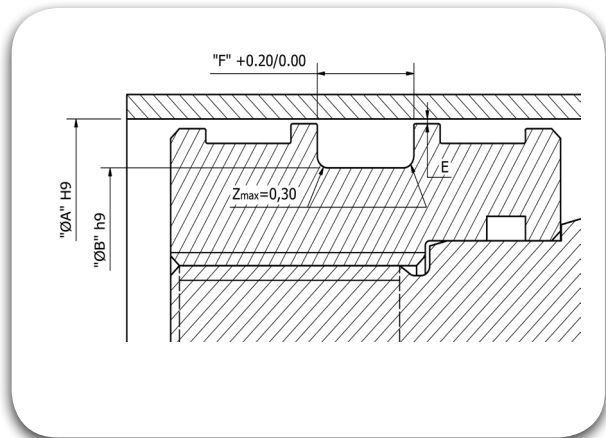
Part No PPS 0220 0160 045

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
22.00 x 16.00 x 4.50

22.00

Part No PPS 0220 0160 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
22.00 x 16.00 x 5.50



23.00

Part No PPS 0230 0150 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
23.00 x 15.00 x 6.30

24.00

Part No PPS 0240 0120 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
24.00 x 12.00 x 6.50

24.00

Part No PPS 0240 0120 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
24.00 x 12.00 x 10.00

24.00

Part No PPS 0240 0140 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
24.00 x 14.00 x 5.50

24.00

Part No PPS 0240 0160 045

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
24.00 x 16.00 x 4.50

24.00

Part No PPS 0240 0160 060

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
24.00 x 16.00 x 6.00

24.00

Part No PPS 0240 0160 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
24.00 x 16.00 x 9.00

24.00

Part No PPS 0240 0160 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
24.00 x 16.00 x 10.00

25.00

Part No PPS 0250 0100 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
25.00 x 10.00 x 8.00

25.00

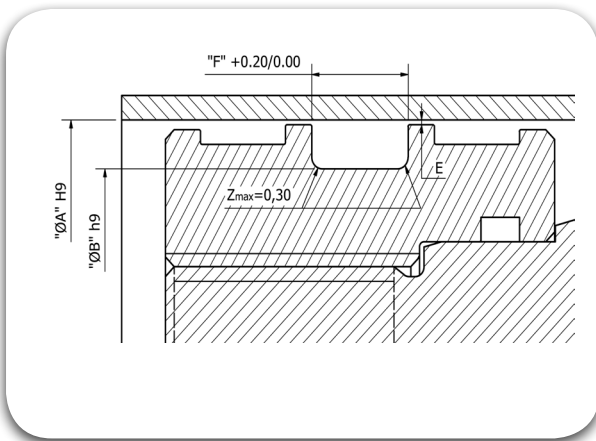
Part No PPS 0250 0120 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
25.00 x 12.00 x 9.00

25.00

Part No PPS 0250 0120 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
25.00 x 12.00 x 11.00



25.00

Part No PPS 0250 0130 065

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 13.00 x 6.50

25.00

Part No PPS 0250 0130 100

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 13.00 x 10.00

25.00

Part No PPS 0250 0150 055

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 15.00 x 5.50

25.00

Part No PPS 0250 0160 090

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 16.00 x 9.00

25.00

Part No PPS 0250 0170 045

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 17.00 x 4.50

25.00

Part No PPS 0250 0170 065

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 17.00 x 6.50

25.00

Part No PPS 0250 0170 110

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 17.00 x 11.00

25.00

Part No PPS 0250 0180 055

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 18.00 x 5.50

25.00

Part No PPS 0250 0180 070

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 18.00 x 7.00

25.00

Part No PPS 0250 0190 035

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 19.00 x 3.50

25.00

Part No PPS 0250 0190 070

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.00 x 19.00 x 7.00

25.40

Part No PPS 0254 0159 070

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
25.40 x 15.90 x 7.00

26.00

Part No PPS 0260 0160 110

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
26.00 x 16.00 x 11.00

26.00

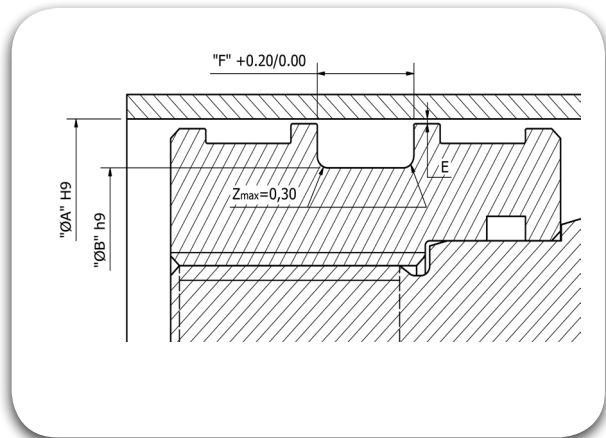
Part No PPS 0260 0180 045

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
26.00 x 18.00 x 4.50

26.00

Part No PPS 0260 0180 075

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
26.00 x 18.00 x 7.50



26.00

Part No PPS 0260 0180 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
26.00 x 18.00 x 9.00

26.00

Part No PPS 0260 0200 038

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
26.00 x 20.00 x 3.80

26.00

Part No PPS 0260 0200 060

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
26.00 x 20.00 x 6.00

27.00

Part No PPS 0270 0150 070

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
27.00 x 15.00 x 7.00

27.00

Part No PPS 0270 0150 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
27.00 x 15.00 x 10.00

27.00

Part No PPS 0270 0170 075

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
27.00 x 17.00 x 7.50

28.00

Part No PPS 0280 0180 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
28.00 x 18.00 x 5.50

28.00

Part No PPS 0280 0180 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
28.00 x 18.00 x 6.30

28.00

Part No PPS 0280 0200 050

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
28.00 x 20.00 x 5.00

28.00

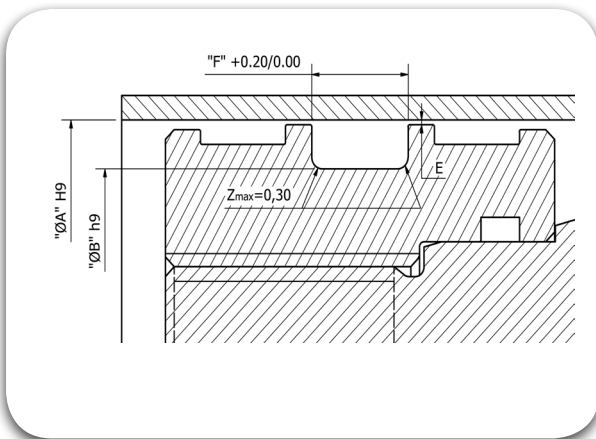
Part No PPS 0280 0200 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
28.00 x 20.00 x 5.50

28.00

Part No PPS 0280 0200 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
28.00 x 20.00 x 8.00



28.00

Part No PPS 0280 0200 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
28.00 x 20.00 x 9.00

28.00

Part No PPS 0280 0220 050

Groove Dimension $\varnothing A \times \varnothing B \times F$
28.00 x 22.00 x 5.00

28.00

Part No PPS 0280 0220 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
28.00 x 22.00 x 9.00

30.00

Part No PPS 0300 0150 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 15.00 x 8.00

30.00

Part No PPS 0300 0180 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 18.00 x 6.50

30.00

Part No PPS 0300 0180 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 18.00 x 9.00

30.00

Part No PPS 0300 0200 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 20.00 x 5.50

30.00

Part No PPS 0300 0200 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 20.00 x 8.00

30.00

Part No PPS 0300 0200 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 20.00 x 9.00

30.00

Part No PPS 0300 0220 045

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 22.00 x 4.50

30.00

Part No PPS 0300 0220 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 22.00 x 7.00

30.00

Part No PPS 0300 0220 075

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 22.00 x 7.50

30.00

Part No PPS 0300 0220 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 22.00 x 11.00

30.00

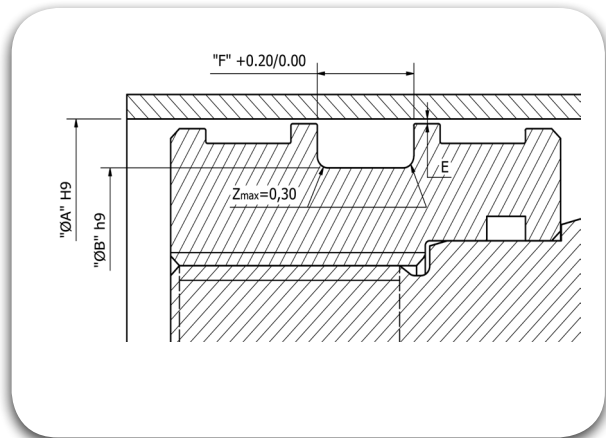
Part No PPS 0300 0225 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 22.50 x 5.50

30.00

Part No PPS 0300 0230 075

Groove Dimension $\varnothing A \times \varnothing B \times F$
30.00 x 23.00 x 7.50



32.00

Part No PPS 0320 0160 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
32.00 x 16.00 x 9.00

32.00

Part No PPS 0320 0200 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
32.00 x 20.00 x 6.50

32.00

Part No PPS 0320 0200 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
32.00 x 20.00 x 10.00

32.00

Part No PPS 0320 0220 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
32.00 x 22.00 x 5.50

32.00

Part No PPS 0320 0240 045

Groove Dimension $\varnothing A \times \varnothing B \times F$
32.00 x 24.00 x 4.50

32.00

Part No PPS 0320 0240 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
32.00 x 24.00 x 6.50

32.00

Part No PPS 0320 0240 075

Groove Dimension $\varnothing A \times \varnothing B \times F$
32.00 x 24.00 x 7.50

32.00

Part No PPS 0320 0240 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
32.00 x 24.00 x 8.00

33.00

Part No PPS 0330 0230 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
33.00 x 23.00 x 8.00

33.00

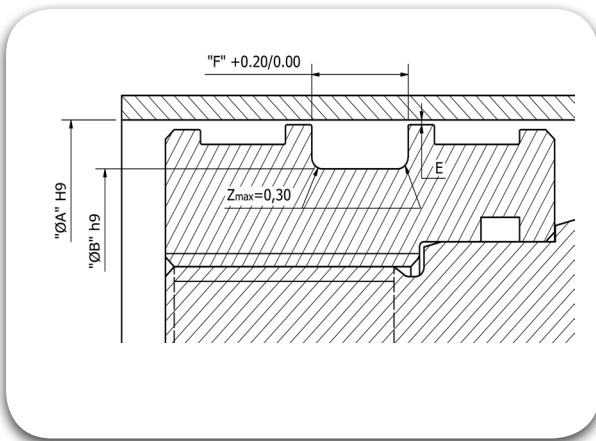
Part No PPS 0330 0250 045

Groove Dimension $\varnothing A \times \varnothing B \times F$
33.00 x 25.00 x 4.50

33.00

Part No PPS 0330 0250 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
33.00 x 25.00 x 5.50



33.00

Part No PPS 0330 0250 075

Groove Dimension $\begin{matrix} \text{ØA} \\ 33.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 25.00 \end{matrix} \times \begin{matrix} \text{F} \\ 7.50 \end{matrix}$

34.00

Part No PPS 0340 0220 065

Groove Dimension $\begin{matrix} \text{ØA} \\ 34.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 22.00 \end{matrix} \times \begin{matrix} \text{F} \\ 6.50 \end{matrix}$

34.00

Part No PPS 0340 0240 055

Groove Dimension $\begin{matrix} \text{ØA} \\ 34.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 24.00 \end{matrix} \times \begin{matrix} \text{F} \\ 5.50 \end{matrix}$

34.00

Part No PPS 0340 0260 045

Groove Dimension $\begin{matrix} \text{ØA} \\ 34.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 26.00 \end{matrix} \times \begin{matrix} \text{F} \\ 4.50 \end{matrix}$

35.00

Part No PPS 0350 0150 110

Groove Dimension $\begin{matrix} \text{ØA} \\ 35.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 15.00 \end{matrix} \times \begin{matrix} \text{F} \\ 11.00 \end{matrix}$

35.00

Part No PPS 0350 0200 100

Groove Dimension $\begin{matrix} \text{ØA} \\ 35.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 20.00 \end{matrix} \times \begin{matrix} \text{F} \\ 10.00 \end{matrix}$

35.00

Part No PPS 0350 0200 130

Groove Dimension $\begin{matrix} \text{ØA} \\ 35.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 20.00 \end{matrix} \times \begin{matrix} \text{F} \\ 13.00 \end{matrix}$

35.00

Part No PPS 0350 0220 060

Groove Dimension $\begin{matrix} \text{ØA} \\ 35.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 22.00 \end{matrix} \times \begin{matrix} \text{F} \\ 6.00 \end{matrix}$

35.00

Part No PPS 0350 0230 065

Groove Dimension $\begin{matrix} \text{ØA} \\ 35.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 23.00 \end{matrix} \times \begin{matrix} \text{F} \\ 6.50 \end{matrix}$

35.00

Part No PPS 0350 0250 080

Groove Dimension $\begin{matrix} \text{ØA} \\ 35.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 25.00 \end{matrix} \times \begin{matrix} \text{F} \\ 8.00 \end{matrix}$

35.00

Part No PPS 0350 0270 065

Groove Dimension $\begin{matrix} \text{ØA} \\ 35.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 27.00 \end{matrix} \times \begin{matrix} \text{F} \\ 6.50 \end{matrix}$

35.00

Part No PPS 0350 0280 055

Groove Dimension $\begin{matrix} \text{ØA} \\ 35.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 28.00 \end{matrix} \times \begin{matrix} \text{F} \\ 5.50 \end{matrix}$

36.00

Part No PPS 0360 0220 110

Groove Dimension $\begin{matrix} \text{ØA} \\ 36.00 \end{matrix} \times \begin{matrix} \text{ØB} \\ 22.00 \end{matrix} \times \begin{matrix} \text{F} \\ 11.00 \end{matrix}$

36.00

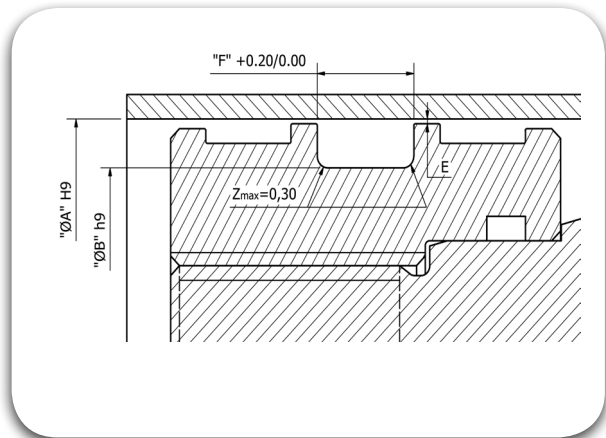
Part No PPS 0360 0240 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
36.00 x 24.00 x 6.50

36.00

Part No PPS 0360 0240 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
36.00 x 24.00 x 10.00



36.00

Part No PPS 0360 0260 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
36.00 x 26.00 x 8.00

36.00

Part No PPS 0360 0280 075

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
36.00 x 28.00 x 7.50

36.00

Part No PPS 0360 0300 045

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
36.00 x 30.00 x 4.50

37.00

Part No PPS 0370 0250 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
37.00 x 25.00 x 6.50

37.00

Part No PPS 0370 0250 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
37.00 x 25.00 x 10.00

37.00

Part No PPS 0370 0290 045

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
37.00 x 29.00 x 4.50

37.00

Part No PPS 0370 0300 070

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
37.00 x 30.00 x 7.00

38.00

Part No PPS 0380 0180 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
38.00 x 18.00 x 11.00

38.00

Part No PPS 0380 0260 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
38.00 x 26.00 x 6.50

38.00

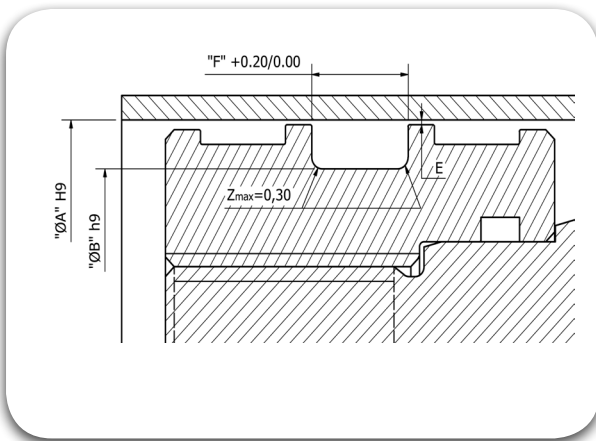
Part No PPS 0380 0300 045

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
38.00 x 30.00 x 4.50

38.00

Part No PPS 0380 0300 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
38.00 x 30.00 x 6.50



38.00

Part No PPS 0380 0300 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
38.00 x 30.00 x 8.00

38.10

Part No PPS 0381 0250 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
38.10 x 25.00 x 7.00

39.00

Part No PPS 0390 0200 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
39.00 x 20.00 x 11.00

40.00

Part No PPS 0400 0200 120

Groove Dimension $\varnothing A \times \varnothing B \times F$
40.00 x 20.00 x 12.00

40.00

Part No PPS 0400 0200 130

Groove Dimension $\varnothing A \times \varnothing B \times F$
40.00 x 20.00 x 13.00

40.00

Part No PPS 0400 0240 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
40.00 x 24.00 x 9.00

40.00

Part No PPS 0400 0250 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
40.00 x 25.00 x 8.00

40.00

Part No PPS 0400 0280 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
40.00 x 28.00 x 6.50

40.00

Part No PPS 0400 0300 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
40.00 x 30.00 x 8.00

40.00

Part No PPS 0400 0300 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
40.00 x 30.00 x 9.00

40.00

Part No PPS 0400 0300 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
40.00 x 30.00 x 11.00

40.00

Part No PPS 0400 0320 045

Groove Dimension $\varnothing A \times \varnothing B \times F$
40.00 x 32.00 x 4.50

41.30

Part No PPS 0413 0286 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
41.30 x 28.60 x 9.00

42.00

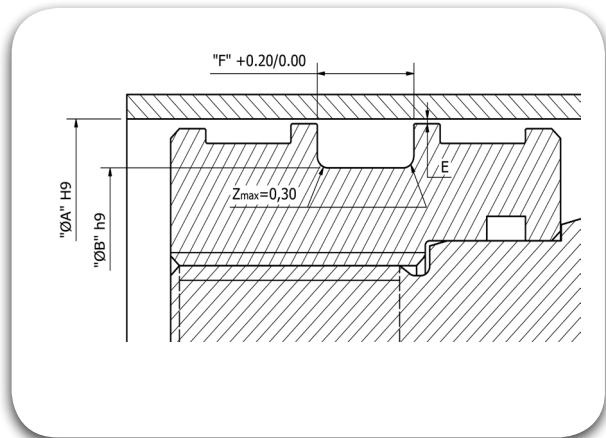
Part No PPS 0420 0300 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
42.00 x 30.00 x 6.50

42.00

Part No PPS 0420 0320 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
42.00 x 32.00 x 5.50



42.00

Part No PPS 0420 0320 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
42.00 x 32.00 x 8.00

42.00

Part No PPS 0420 0340 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
42.00 x 34.00 x 6.50

43.00

Part No PPS 0430 0330 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
43.00 x 33.00 x 5.50

43.00

Part No PPS 0430 0350 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
43.00 x 35.00 x 9.00

44.00

Part No PPS 0440 0320 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
44.00 x 32.00 x 6.50

44.00

Part No PPS 0440 0320 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
44.00 x 32.00 x 10.00

44.00

Part No PPS 0440 0340 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
44.00 x 34.00 x 8.00

45.00

Part No PPS 0450 0250 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
45.00 x 25.00 x 11.00

45.00

Part No PPS 0450 0300 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
45.00 x 30.00 x 10.00

45.00

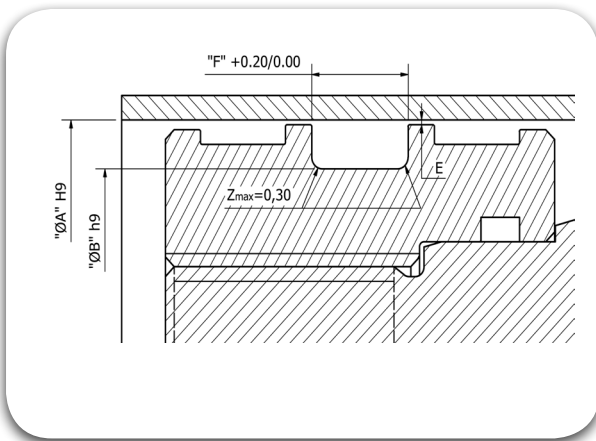
Part No PPS 0450 0330 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
45.00 x 33.00 x 6.50

45.00

Part No PPS 0450 0350 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
45.00 x 35.00 x 5.50



45.00

Part No PPS 0450 0355 075

Groove Dimension $\varnothing A \times \varnothing B \times F$
45.00 x 35.50 x 7.50

45.00

Part No PPS 0450 0370 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
45.00 x 37.00 x 6.50

45.00

Part No PPS 0450 0380 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
45.00 x 38.00 x 5.50

46.00

Part No PPS 0460 0360 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
46.00 x 36.00 x 5.50

46.00

Part No PPS 0460 0380 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
46.00 x 38.00 x 6.50

47.00

Part No PPS 0470 0350 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
47.00 x 35.00 x 10.00

48.00

Part No PPS 0480 0320 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
48.00 x 32.00 x 11.00

48.00

Part No PPS 0480 0360 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
48.00 x 36.00 x 6.50

48.00

Part No PPS 0480 0360 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
48.00 x 36.00 x 9.00

48.00

Part No PPS 0480 0380 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
48.00 x 38.00 x 5.50

48.00

Part No PPS 0480 0400 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
48.00 x 40.00 x 6.50

48.00

Part No PPS 0480 0400 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
48.00 x 40.00 x 7.00

48.00

Part No PPS 0480 0400 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
48.00 x 40.00 x 9.00

48.00

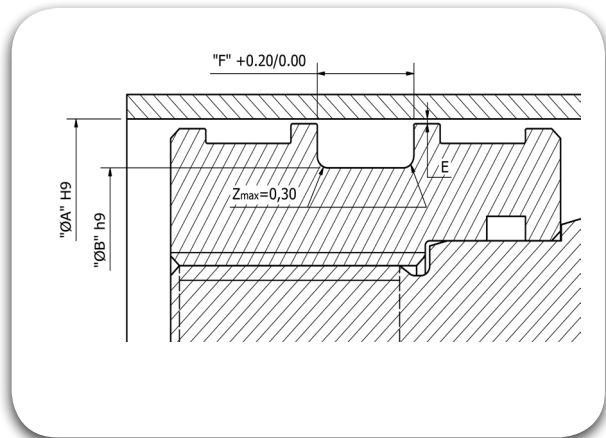
Part No PPS 0480 0400 120

Groove Dimension $\varnothing A \times \varnothing B \times F$
48.00 x 40.00 x 12.00

50.00

Part No PPS 0500 0320 130

Groove Dimension $\varnothing A \times \varnothing B \times F$
50.00 x 32.00 x 13.00



50.00

Part No PPS 0500 0340 150

Groove Dimension $\varnothing A \times \varnothing B \times F$
50.00 x 34.00 x 15.00

50.00

Part No PPS 0500 0350 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
50.00 x 35.00 x 8.00

50.00

Part No PPS 0500 0380 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
50.00 x 38.00 x 6.50

50.00

Part No PPS 0500 0380 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
50.00 x 38.00 x 10.00

50.00

Part No PPS 0500 0380 120

Groove Dimension $\varnothing A \times \varnothing B \times F$
50.00 x 38.00 x 12.00

50.00

Part No PPS 0500 0400 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
50.00 x 40.00 x 7.00

50.00

Part No PPS 0500 0440 095

Groove Dimension $\varnothing A \times \varnothing B \times F$
50.00 x 44.00 x 9.50

50.80

Part No PPS 0508 0408 077

Groove Dimension $\varnothing A \times \varnothing B \times F$
50.80 x 40.80 x 7.70

50.80

Part No PPS 0508 0413 060

Groove Dimension $\varnothing A \times \varnothing B \times F$
50.80 x 41.30 x 6.00

51.00

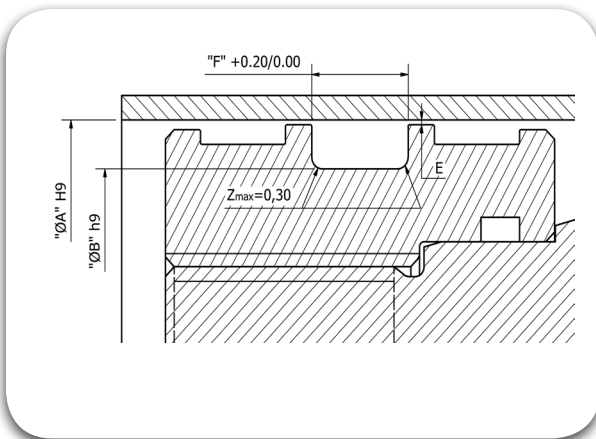
Part No PPS 0510 0360 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
51.00 x 36.00 x 11.00

52.00

Part No PPS 0520 0320 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
52.00 x 32.00 x 11.00



52.00

Part No PPS 0520 0360 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

52.00 x 36.00 x 13.00

52.00

Part No PPS 0520 0400 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

52.00 x 40.00 x 6.50

52.00

Part No PPS 0520 0400 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

52.00 x 40.00 x 9.00

52.00

Part No PPS 0520 0400 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

52.00 x 40.00 x 11.00

52.00

Part No PPS 0520 0420 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

52.00 x 42.00 x 5.50

52.00

Part No PPS 0520 0420 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

52.00 x 42.00 x 10.00

53.00

Part No PPS 0530 0380 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

53.00 x 38.00 x 9.00

53.00

Part No PPS 0530 0430 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

53.00 x 43.00 x 8.00

53.00

Part No PPS 0530 0450 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

53.00 x 45.00 x 11.00

53.00

Part No PPS 0530 0450 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

53.00 x 45.00 x 13.00

54.00

Part No PPS 0540 0420 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

54.00 x 42.00 x 6.50

54.00

Part No PPS 0540 0440 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

54.00 x 44.00 x 5.50

54.00

Part No PPS 0540 0440 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

54.00 x 44.00 x 8.00

55.00

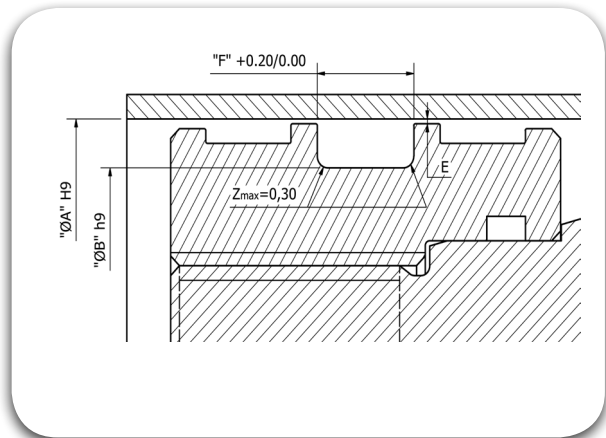
Part No PPS 0550 0350 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.00 x 35.00 x 13.00

55.00

Part No PPS 0550 0400 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.00 x 40.00 x 8.00



55.00

Part No PPS 0550 0400 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.00 x 40.00 x 11.00

55.00

Part No PPS 0550 0450 070

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.00 x 45.00 x 7.00

55.00

Part No PPS 0550 0450 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.00 x 45.00 x 9.00

55.00

Part No PPS 0550 0450 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.00 x 45.00 x 13.00

56.00

Part No PPS 0560 0400 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
56.00 x 40.00 x 11.00

56.00

Part No PPS 0560 0440 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
56.00 x 44.00 x 6.50

56.00

Part No PPS 0560 0460 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
56.00 x 46.00 x 5.50

56.00

Part No PPS 0560 0460 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
56.00 x 46.00 x 8.00

58.00

Part No PPS 0580 0380 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
58.00 x 38.00 x 11.00

58.00

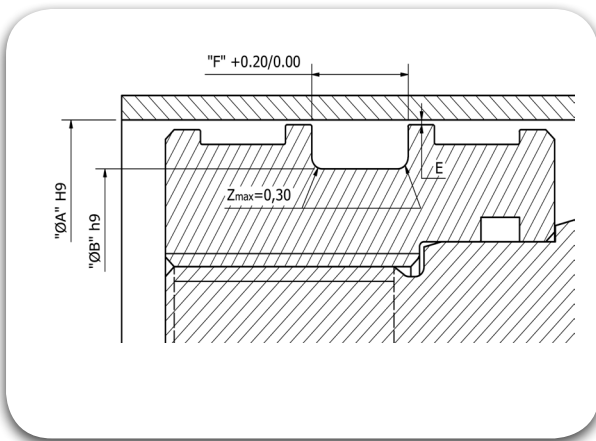
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
58.00 x 45.00 x 11.00

58.00

Part No PPS 0580 0460 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
58.00 x 46.00 x 6.50



58.00

Part No PPS 0580 0500 055

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
58.00 x 50.00 x 5.50

60.00

Part No PPS 0600 0350 130

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
60.00 x 35.00 x 13.00

60.00

Part No PPS 0600 0400 130

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
60.00 x 40.00 x 13.00

60.00

Part No PPS 0600 0400 190

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
60.00 x 40.00 x 19.00

60.00

Part No PPS 0600 0450 080

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
60.00 x 45.00 x 8.00

60.00

Part No PPS 0600 0450 130

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
60.00 x 45.00 x 13.00

60.00

Part No PPS 0600 0480 065

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
60.00 x 48.00 x 6.50

60.00

Part No PPS 0600 0480 100

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
60.00 x 48.00 x 10.00

60.00

Part No PPS 0600 0500 055

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
60.00 x 50.00 x 5.50

60.00

Part No PPS 0600 0500 090

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
60.00 x 50.00 x 9.00

60.00

Part No PPS 0600 0500 120

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
60.00 x 50.00 x 12.00

60.00

Part No PPS 0600 0520 065

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
60.00 x 52.00 x 6.50

62.00

Part No PPS 0620 0520 130

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
62.00 x 52.00 x 13.00

63.00

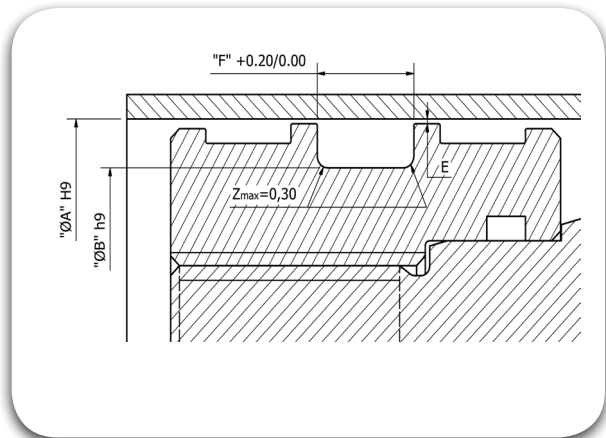
Part No PPS 0630 0480 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.00 x 48.00 x 11.00

63.00

Part No PPS 0630 0510 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.00 x 51.00 x 6.50



63.00

Part No PPS 0630 0510 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.00 x 51.00 x 10.00

63.00

Part No PPS 0630 0530 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.00 x 53.00 x 5.50

63.00

Part No PPS 0630 0530 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.00 x 53.00 x 8.00

63.00

Part No PPS 0630 0530 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.00 x 53.00 x 13.00

64.00

Part No PPS 0640 0463 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
64.00 x 46.30 x 9.50

64.00

Part No PPS 0640 0520 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
64.00 x 52.00 x 6.50

65.00

Part No PPS 0650 0400 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
65.00 x 40.00 x 13.00

65.00

Part No PPS 0650 0500 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
65.00 x 50.00 x 8.00

65.00

Part No PPS 0650 0530 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
65.00 x 53.00 x 6.50

65.00

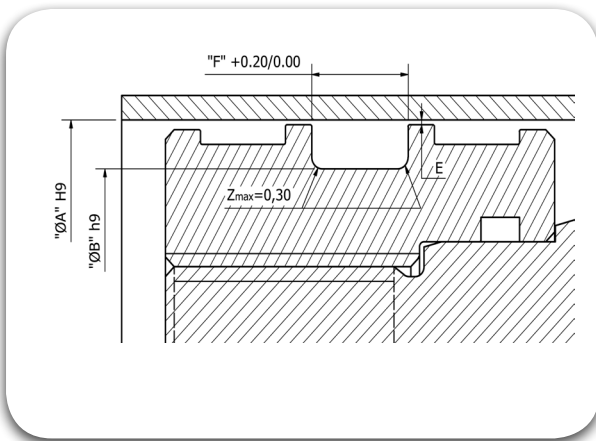
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
65.00 x 55.00 x 5.50

65.00

Part No PPS 0650 0550 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
65.00 x 55.00 x 13.00



66.00

Part No PPS 0660 0560 080

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
66.00 x 56.00 x 8.00

66.00

Part No PPS 0660 0560 110

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
66.00 x 56.00 x 11.00

66.00

Part No PPS 0660 0560 120

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
66.00 x 56.00 x 12.00

68.00

Part No PPS 0680 0500 110

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
68.00 x 50.00 x 11.00

70.00

Part No PPS 0700 0370 110

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
70.00 x 37.00 x 11.00

70.00

Part No PPS 0700 0400 160

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
70.00 x 40.00 x 16.00

70.00

Part No PPS 0700 0450 130

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
70.00 x 45.00 x 13.00

70.00

Part No PPS 0700 0500 160

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
70.00 x 50.00 x 16.00

70.00

Part No PPS 0700 0500 190

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
70.00 x 50.00 x 19.00

70.00

Part No PPS 0700 0540 130

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
70.00 x 54.00 x 13.00

70.00

Part No PPS 0700 0550 080

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
70.00 x 55.00 x 8.00

70.00

Part No PPS 0700 0550 110

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
70.00 x 55.00 x 11.00

70.00

Part No PPS 0700 0550 120

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
70.00 x 55.00 x 12.00

72.00

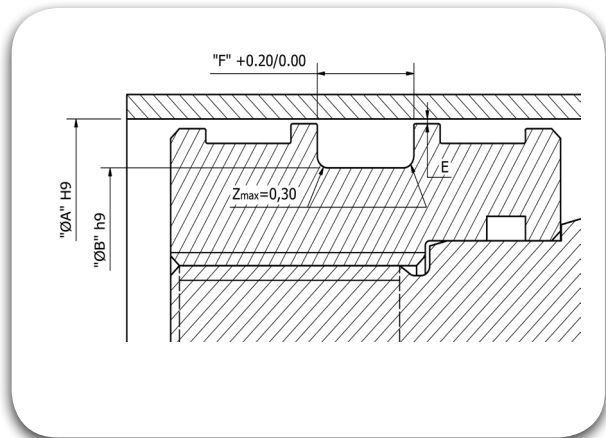
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
72.00 x 50.00 x 13.00

72.00

Part No PPS 0720 0520 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
72.00 x 52.00 x 13.00



72.00

Part No PPS 0720 0620 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
72.00 x 62.00 x 12.00

73.00

Part No PPS 0730 0570 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
73.00 x 57.00 x 12.00

73.00

Part No PPS 0730 0630 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
73.00 x 63.00 x 5.50

73.00

Part No PPS 0730 0630 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
73.00 x 63.00 x 8.00

73.00

Part No PPS 0730 0630 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
73.00 x 63.00 x 11.00

74.00

Part No PPS 0740 0340 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
74.00 x 34.00 x 11.00

75.00

Part No PPS 0750 0400 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 40.00 x 11.00

75.00

Part No PPS 0750 0500 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 50.00 x 13.00

75.00

Part No PPS 0750 0550 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 55.00 x 11.00

75.00

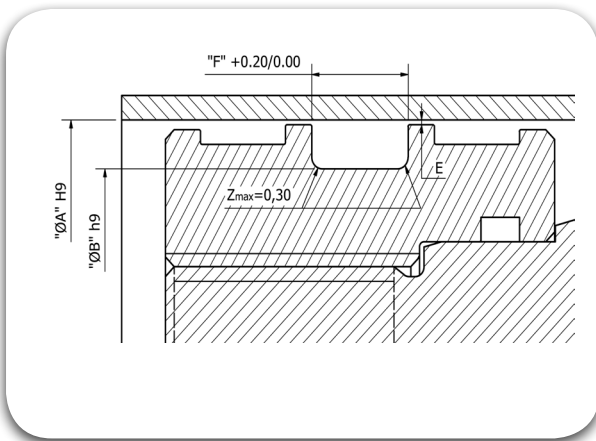
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 60.00 x 8.00

75.00

Part No PPS 0750 0630 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 63.00 x 10.00



75.00

Part No PPS 0750 0630 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

75.00 x 63.00 x 13.00

75.00

Part No PPS 0750 0650 055

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

75.00 x 65.00 x 5.50

75.00

Part No PPS 0750 0650 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

75.00 x 65.00 x 8.00

75.00

Part No PPS 0750 0650 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

75.00 x 65.00 x 10.00

75.00

Part No PPS 0750 0650 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

75.00 x 65.00 x 11.00

76.00

Part No PPS 0760 0560 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

76.00 x 56.00 x 13.00

76.00

Part No PPS 0760 0600 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

76.00 x 60.00 x 13.00

76.00

Part No PPS 0760 0660 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

76.00 x 66.00 x 9.00

77.00

Part No PPS 0770 0670 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

77.00 x 67.00 x 13.00

78.00

Part No PPS 0780 0630 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

78.00 x 63.00 x 11.00

80.00

Part No PPS 0800 0500 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

80.00 x 50.00 x 11.00

80.00

Part No PPS 0800 0550 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F

80.00 x 55.00 x 11.00

80.00

Part No PPS 0800 0550 130

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80.00 x 55.00 x 13.00

80.00

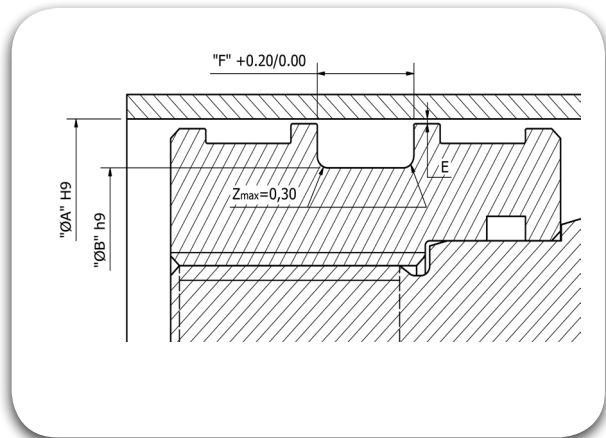
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 55.00 x 15.00

80.00

Part No PPS 0800 0600 160

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 60.00 x 16.00



80.00

Part No PPS 0800 0600 190

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 60.00 x 19.00

80.00

Part No PPS 0800 0640 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 64.00 x 13.00

80.00

Part No PPS 0800 0650 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 65.00 x 8.00

80.00

Part No PPS 0800 0650 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 65.00 x 12.00

80.00

Part No PPS 0800 0660 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 66.00 x 11.00

80.00

Part No PPS 0800 0660 140

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 66.00 x 14.00

80.00

Part No PPS 0800 0700 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 70.00 x 8.00

82.00

Part No PPS 0820 0700 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
82.00 x 70.00 x 10.00

83.00

Part No PPS 0830 0630 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
83.00 x 63.00 x 13.00

83.00

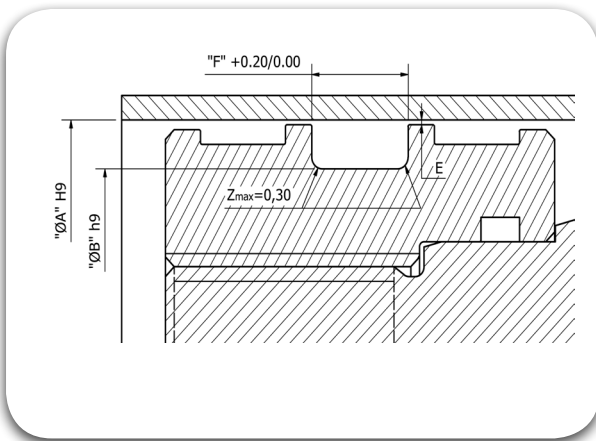
Part No PPS 0830 0630 160

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
83.00 x 63.00 x 16.00

85.00

Part No PPS 0850 0550 160

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
85.00 x 55.00 x 16.00



85.00

Part No PPS 0850 0600 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
85.00 x 60.00 x 11.00

85.00

Part No PPS 0850 0600 135

Groove Dimension $\varnothing A \times \varnothing B \times F$
85.00 x 60.00 x 13.50

85.00

Part No PPS 0850 0650 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
85.00 x 65.00 x 11.00

85.00

Part No PPS 0850 0650 160

Groove Dimension $\varnothing A \times \varnothing B \times F$
85.00 x 65.00 x 16.00

85.00

Part No PPS 0850 0700 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
85.00 x 70.00 x 11.00

85.00

Part No PPS 0850 0700 130

Groove Dimension $\varnothing A \times \varnothing B \times F$
85.00 x 70.00 x 13.00

85.00

Part No PPS 0850 0730 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
85.00 x 73.00 x 10.00

85.00

Part No PPS 0850 0750 055

Groove Dimension $\varnothing A \times \varnothing B \times F$
85.00 x 75.00 x 5.50

85.00

Part No PPS 0850 0750 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
85.00 x 75.00 x 8.00

85.00

Part No PPS 0850 0750 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
85.00 x 75.00 x 11.00

90.00

Part No PPS 0900 0600 160

Groove Dimension $\varnothing A \times \varnothing B \times F$
90.00 x 60.00 x 16.00

90.00

Part No PPS 0900 0700 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
90.00 x 70.00 x 11.00

90.00

Part No PPS 0900 0700 160

Groove Dimension $\varnothing A \times \varnothing B \times F$
90.00 x 70.00 x 16.00

90.00

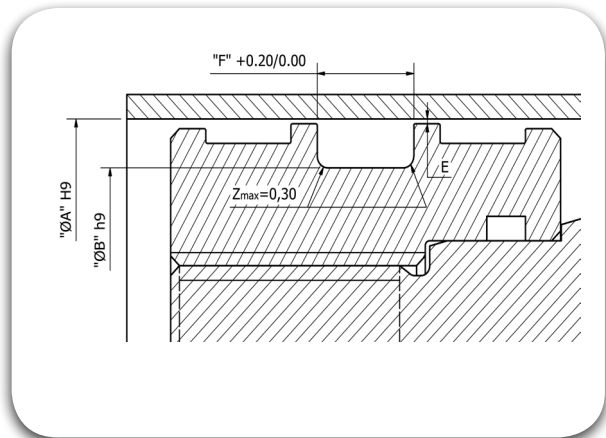
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 70.00 x 19.00

90.00

Part No PPS 0900 0740 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 74.00 x 13.00



90.00

Part No PPS 0900 0800 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 80.00 x 8.00

91.00

Part No PPS 0910 0750 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
91.00 x 75.00 x 13.00

92.00

Part No PPS 0920 0760 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
92.00 x 76.00 x 13.00

92.00

Part No PPS 0920 0820 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
92.00 x 82.00 x 11.00

93.00

Part No PPS 0930 0780 115

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
93.00 x 78.00 x 11.50

95.00

Part No PPS 0950 0700 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 70.00 x 11.00

95.00

Part No PPS 0950 0700 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 70.00 x 13.00

95.00

Part No PPS 0950 0750 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 75.00 x 11.00

95.00

Part No PPS 0950 0750 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 75.00 x 14.50

95.00

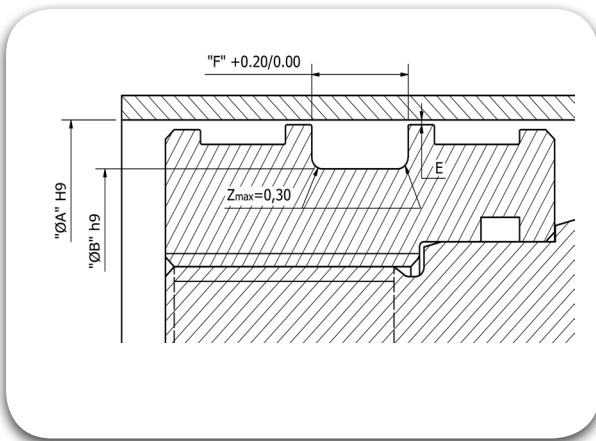
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 80.00 x 8.00

95.00

Part No PPS 0950 0800 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 80.00 x 11.00



95.00

Part No PPS 0950 0830 100
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 95.00 x 83.00 x 10.00

95.00

Part No PPS 0950 0850 055
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 95.00 x 85.00 x 5.50

100.00

Part No PPS 1000 0700 160
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 100.00 x 70.00 x 16.00

100.00

Part No PPS 1000 0750 130
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 100.00 x 75.00 x 13.00

100.00

Part No PPS 1000 0750 200
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 100.00 x 75.00 x 20.00

100.00

Part No PPS 1000 0800 110
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 100.00 x 80.00 x 11.00

100.00

Part No PPS 1000 0800 160
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 100.00 x 80.00 x 16.00

100.00

Part No PPS 1000 0850 080
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 100.00 x 85.00 x 8.00

100.00

Part No PPS 1000 0850 120
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 100.00 x 85.00 x 12.00

100.00

Part No PPS 1000 0880 100
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 100.00 x 88.00 x 10.00

100.00

Part No PPS 1000 0900 055
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 100.00 x 90.00 x 5.50

100.00

Part No PPS 1000 0900 080
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 100.00 x 90.00 x 8.00

100.00

Part No PPS 1000 0900 110
Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 100.00 x 90.00 x 11.00

101.00

Part No

PPS 1010 0850 130

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
101.00 x 85.00 x 13.00

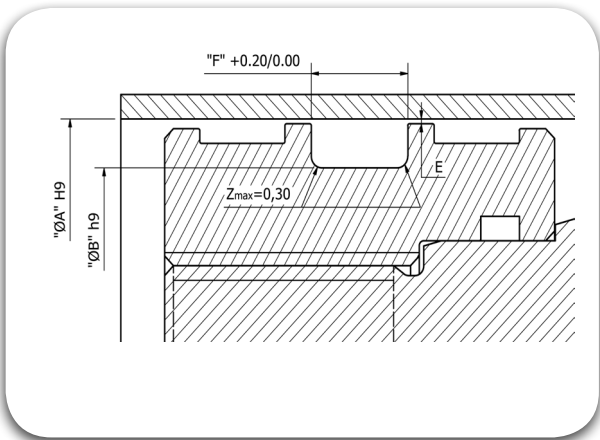
101.00

Part No

PPS 1010 0860 130

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
101.00 x 86.00 x 13.00



105.00

Part No

PPS 1050 0800 130

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
105.00 x 80.00 x 13.00

105.00

Part No

PPS 1050 0800 230

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
105.00 x 80.00 x 23.00

105.00

Part No

PPS 1050 0850 190

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
105.00 x 85.00 x 19.00

105.00

Part No

PPS 1050 0900 080

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
105.00 x 90.00 x 8.00

105.00

Part No

PPS 1050 0950 055

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
105.00 x 95.00 x 5.50

107.00

Part No

PPS 1070 0950 100

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
107.00 x 95.00 x 10.00

109.00

Part No

PPS 1090 0990 150

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
109.00 x 99.00 x 15.00

110.00

Part No

PPS 1100 0800 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
110.00 x 80.00 x 16.00

110.00

Part No

PPS 1100 0850 130

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
110.00 x 85.00 x 13.00

110.00

Part No

PPS 1100 0900 110

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
110.00 x 90.00 x 11.00

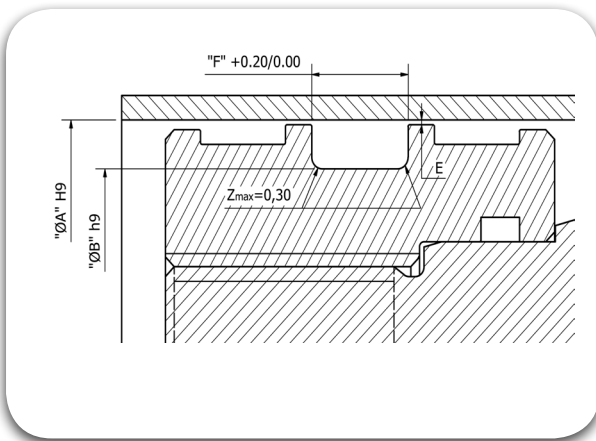
110.00

Part No

PPS 1100 0900 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
110.00 x 90.00 x 16.00



110.00

Part No PPS 1100 0900 190

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
110.00 x 90.00 x 19.00

110.00

Part No PPS 1100 0940 130

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
110.00 x 94.00 x 13.00

110.00

Part No PPS 1100 0950 160

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
110.00 x 95.00 x 16.00

110.00

Part No PPS 1100 1000 055

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
110.00 x 100.00 x 5.50

112.00

Part No PPS 1120 0950 120

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
112.00 x 95.00 x 12.00

112.00

Part No PPS 1120 1000 100

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
112.00 x 100.00 x 10.00

112.00

Part No PPS 1120 1020 120

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
112.00 x 102.00 x 12.00

114.30

Part No PPS 1143 0889 150

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
114.30 x 88.90 x 15.00

115.00

Part No PPS 1150 0850 160

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
115.00 x 85.00 x 16.00

115.00

Part No PPS 1150 0900 130

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
115.00 x 90.00 x 13.00

115.00

Part No PPS 1150 0900 160

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
115.00 x 90.00 x 16.00

115.00

Part No PPS 1150 0900 230

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
115.00 x 90.00 x 23.00

115.00

Part No PPS 1150 0950 160

Groove Dimension $\text{ØA} \times \text{ØB} \times \text{F}$
115.00 x 95.00 x 16.00

115.00

Part No

PPS 1150 0950 190

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
115.00 x 95.00 x 19.00

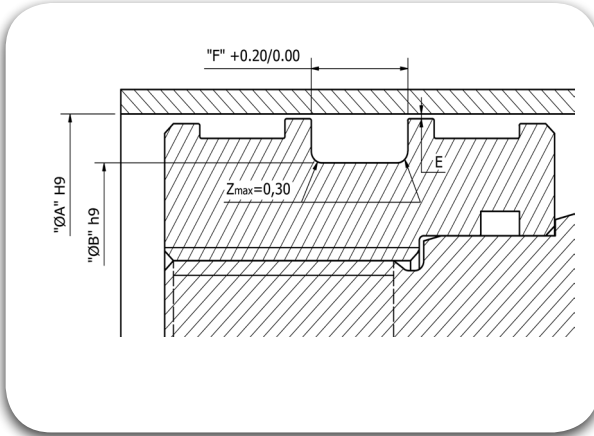
115.00

Part No

PPS 1150 0990 130

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
115.00 x 99.00 x 13.00



115.00

Part No

PPS 1150 1000 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
115.00 x 100.00 x 16.00

115.00

Part No

PPS 1150 1030 100

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
115.00 x 103.00 x 10.00

117.00

Part No

PPS 1170 1050 100

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
117.00 x 105.00 x 10.00

120.00

Part No

PPS 1200 0900 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 90.00 x 16.00

120.00

Part No

PPS 1200 0950 200

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 95.00 x 20.00

120.00

Part No

PPS 1200 1000 110

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 100.00 x 11.00

120.00

Part No

PPS 1200 1000 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 100.00 x 16.00

120.00

Part No

PPS 1200 1000 190

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 100.00 x 19.00

120.00

Part No

PPS 1200 1050 090

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 105.00 x 9.00

120.00

Part No

PPS 1200 1050 120

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 105.00 x 12.00

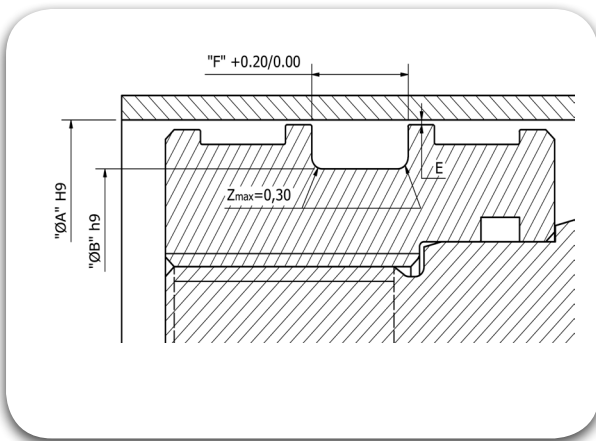
121.00

Part No

PPS 1210 1110 065

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
121.00 x 111.00 x 6.50



125.00

Part No PPS 1250 1000 200

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
125.00 x 100.00 x 20.00

125.00

Part No PPS 1250 1050 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
125.00 x 105.00 x 11.00

125.00

Part No PPS 1250 1130 105

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
125.00 x 113.00 x 10.50

127.00

Part No PPS 1270 1120 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
127.00 x 112.00 x 12.00

130.00

Part No PPS 1300 1000 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
130.00 x 100.00 x 13.00

130.00

Part No PPS 1300 1000 160

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
130.00 x 100.00 x 16.00

130.00

Part No PPS 1300 1050 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
130.00 x 105.00 x 13.00

130.00

Part No PPS 1300 1100 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
130.00 x 110.00 x 11.00

130.00

Part No PPS 1300 1100 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
130.00 x 110.00 x 13.00

130.00

Part No PPS 1300 1100 190

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
130.00 x 110.00 x 19.00

130.00

Part No PPS 1300 1150 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
130.00 x 115.00 x 8.00

130.00

Part No PPS 1300 1150 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
130.00 x 115.00 x 11.00

130.00

Part No PPS 1300 1150 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
130.00 x 115.00 x 12.00

130.00

Part No

PPS 1300 1150 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 115.00 x 16.00

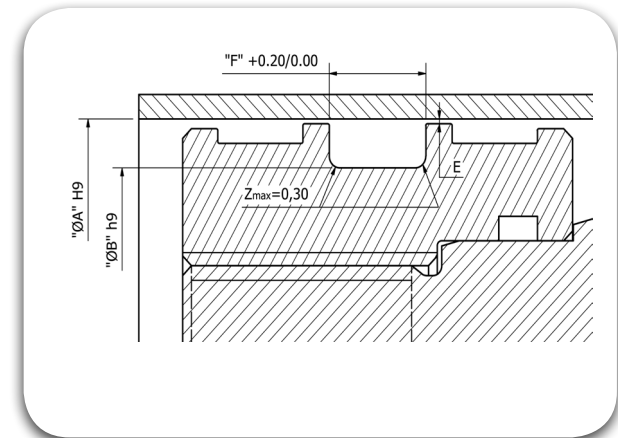
130.00

Part No

PPS 1300 1180 110

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 118.00 x 11.00



130.00

Part No

PPS 1300 1200 150

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 120.00 x 15.00

135.00

Part No

PPS 1350 1100 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
135.00 x 110.00 x 16.00

135.00

Part No

PPS 1350 1200 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
135.00 x 120.00 x 16.00

135.00

Part No

PPS 1350 1230 100

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
135.00 x 123.00 x 10.00

137.00

Part No

PPS 1370 1250 100

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
137.00 x 125.00 x 10.00

140.00

Part No

PPS 1400 1100 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 110.00 x 16.00

140.00

Part No

PPS 1400 1150 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 115.00 x 16.00

140.00

Part No

PPS 1400 1150 230

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 115.00 x 23.00

140.00

Part No

PPS 1400 1200 110

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 120.00 x 11.00

140.00

Part No

PPS 1400 1200 130

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 120.00 x 13.00

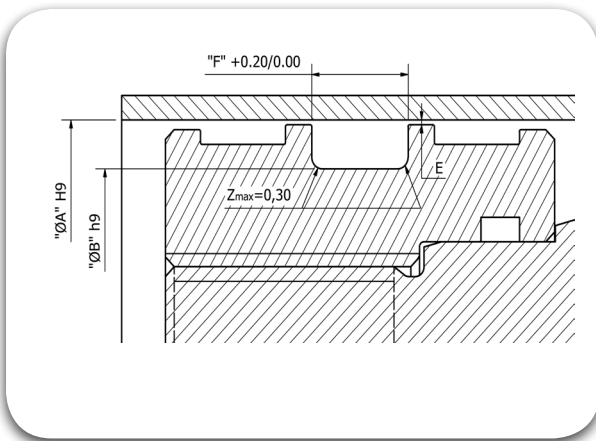
145.00

Part No

PPS 1450 1200 200

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
145.00 x 120.00 x 20.00



145.00

Part No PPS 1450 1250 130

Groove Dimension $\varnothing A \times \varnothing B \times F$
145.00 x 125.00 x 13.00

145.00

Part No PPS 1450 1250 190

Groove Dimension $\varnothing A \times \varnothing B \times F$
145.00 x 125.00 x 19.00

145.00

Part No PPS 1450 1300 120

Groove Dimension $\varnothing A \times \varnothing B \times F$
145.00 x 130.00 x 12.00

145.00

Part No PPS 1450 1300 160

Groove Dimension $\varnothing A \times \varnothing B \times F$
145.00 x 130.00 x 16.00

145.00

Part No PPS 1450 1330 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
145.00 x 133.00 x 10.00

150.00

Part No PPS 1500 1350 160

Groove Dimension $\varnothing A \times \varnothing B \times F$
150.00 x 135.00 x 16.00

150.00

Part No PPS 1500 1380 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
150.00 x 138.00 x 10.00

155.00

Part No PPS 1550 1250 160

Groove Dimension $\varnothing A \times \varnothing B \times F$
155.00 x 125.00 x 16.00

155.00

Part No PPS 1550 1300 200

Groove Dimension $\varnothing A \times \varnothing B \times F$
155.00 x 130.00 x 20.00

155.00

Part No PPS 1550 1350 160

Groove Dimension $\varnothing A \times \varnothing B \times F$
155.00 x 135.00 x 16.00

160.00

Part No PPS 1600 1300 230

Groove Dimension $\varnothing A \times \varnothing B \times F$
160.00 x 130.00 x 23.00

160.00

Part No PPS 1600 1350 130

Groove Dimension $\varnothing A \times \varnothing B \times F$
160.00 x 135.00 x 13.00

160.00

Part No PPS 1600 1350 160

Groove Dimension $\varnothing A \times \varnothing B \times F$
160.00 x 135.00 x 16.00

160.00

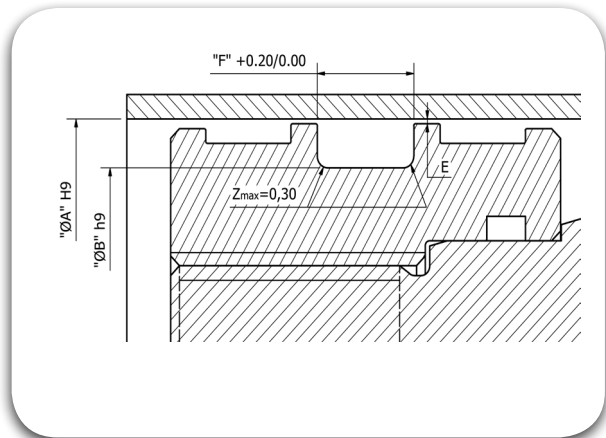
Part No PPS 1600 1400 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
160.00 x 140.00 x 11.00

160.00

Part No PPS 1600 1400 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
160.00 x 140.00 x 13.00



165.00

Part No PPS 1650 1400 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
165.00 x 140.00 x 13.00

165.00

Part No PPS 1650 1400 160

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
165.00 x 140.00 x 16.00

165.00

Part No PPS 1650 1500 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
165.00 x 150.00 x 12.00

170.00

Part No PPS 1700 1450 200

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
170.00 x 145.00 x 20.00

170.00

Part No PPS 1700 1500 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
170.00 x 150.00 x 10.00

170.00

Part No PPS 1700 1500 190

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
170.00 x 150.00 x 19.00

170.00

Part No PPS 1700 1550 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
170.00 x 155.00 x 12.00

170.00

Part No PPS 1700 1580 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
170.00 x 158.00 x 10.00

175.00

Part No PPS 1750 1600 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
175.00 x 160.00 x 12.00

180.00

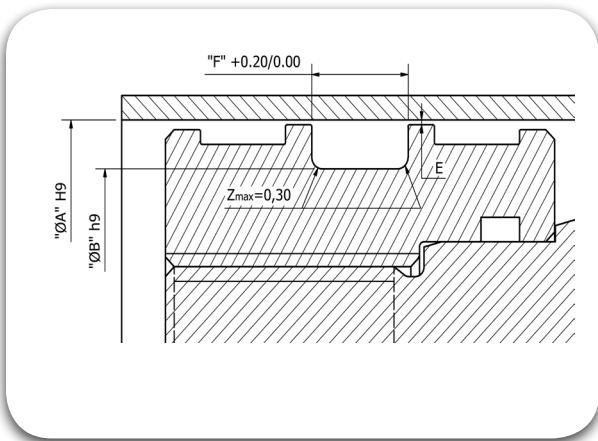
Part No PPS 1800 1650 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
180.00 x 165.00 x 12.00

185.00

Part No PPS 1850 1650 160

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
185.00 x 165.00 x 16.00



185.00

Part No PPS 1850 1700 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
185.00 x 170.00 x 12.00

195.00

Part No PPS 1950 1800 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
195.00 x 180.00 x 12.00

200.00

Part No PPS 2000 1700 160

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
200.00 x 170.00 x 16.00

200.00

Part No PPS 2000 1700 190

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
200.00 x 170.00 x 19.00

200.00

Part No PPS 2000 1800 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
200.00 x 180.00 x 13.00

200.00

Part No PPS 2000 1880 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
200.00 x 188.00 x 10.00

210.00

Part No PPS 2100 1850 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
210.00 x 185.00 x 13.00

220.00

Part No PPS 2200 1800 210

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
220.00 x 180.00 x 21.00

220.00

Part No PPS 2200 1900 230

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
220.00 x 190.00 x 23.00

220.00

Part No PPS 2200 2000 160

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
220.00 x 200.00 x 16.00

240.00

Part No PPS 2400 2100 180

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
240.00 x 210.00 x 18.00

245.00

Part No PPS 2450 2250 160

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
245.00 x 225.00 x 16.00

245.00

Part No PPS 2450 2300 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
245.00 x 230.00 x 12.00

250.00

Part No

PPS 2500 2200 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
250.00 x 220.00 x 16.00

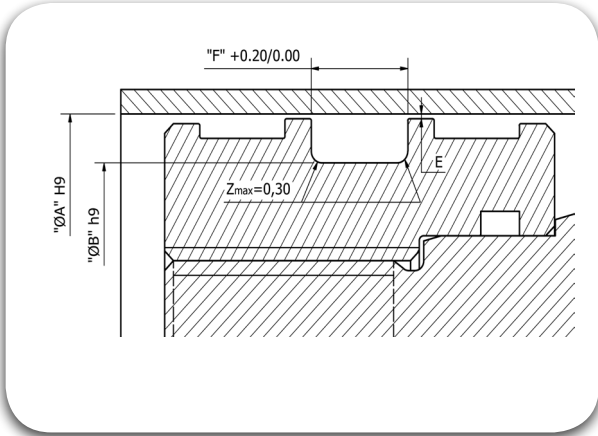
250.00

Part No

PPS 2500 2200 220

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
250.00 x 220.00 x 22.00



250.00

Part No

PPS 2500 2300 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
250.00 x 230.00 x 16.00

270.00

Part No

PPS 2700 2400 230

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
270.00 x 240.00 x 23.00

270.00

Part No

PPS 2700 2500 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
270.00 x 250.00 x 16.00

280.00

Part No

PPS 2800 2500 190

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
280.00 x 250.00 x 19.00

290.00

Part No

PPS 2900 2700 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
290.00 x 270.00 x 16.00

290.00

Part No

PPS 2900 2700 180

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
290.00 x 270.00 x 18.00

300.00

Part No

PPS 3000 2700 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
300.00 x 270.00 x 16.00

300.00

Part No

PPS 3000 2800 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
300.00 x 280.00 x 16.00

320.00

Part No

PPS 3200 2900 190

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
320.00 x 290.00 x 19.00

320.00

Part No

PPS 3200 3000 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
320.00 x 300.00 x 16.00

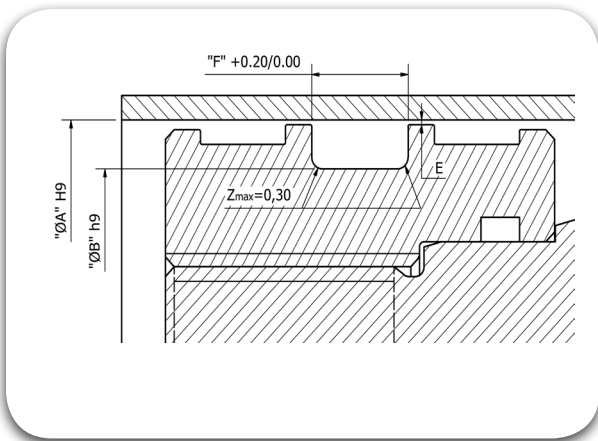
340.00

Part No

PPS 3400 3200 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
340.00 x 320.00 x 16.00



360.00

Part No

PPS 3600 3200 220

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
360.00 x 320.00 x 22.00

360.00

Part No

PPS 3600 3400 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
360.00 x 340.00 x 16.00

370.00

Part No

PPS 3700 3500 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
370.00 x 350.00 x 16.00

380.00

Part No

PPS 3800 3600 160

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
380.00 x 360.00 x 16.00

390.00

Part No

PPS 3900 3600230

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
390.00 x 360.00 x 23.00

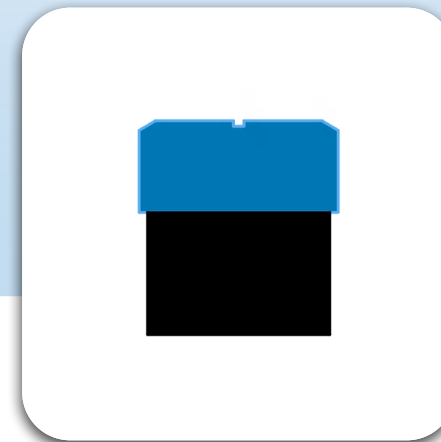
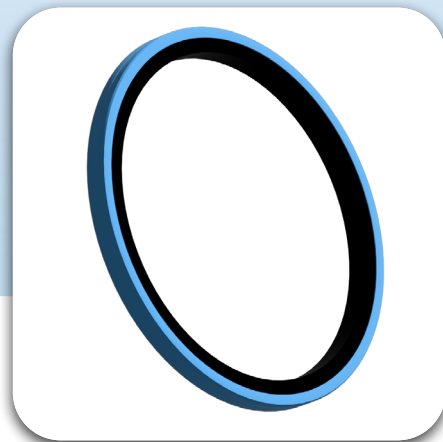
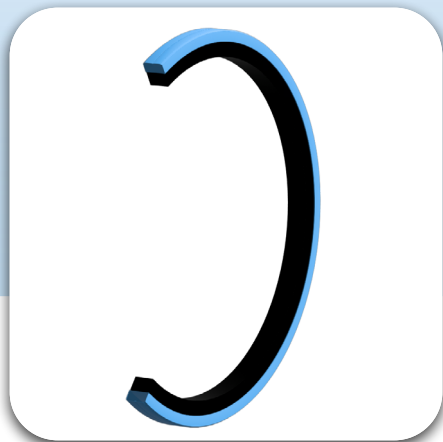


Piston Seals

PPK



#SealingExcellence



Description

The PPK is a bidirectional seal and composed of two elements. The dynamic seal is a ring in TRIATHANE® (Polyurethane) while the static seal is a TRIAFLEX® (Square Ring) also acting as energizer. Depending on the application, media, cycle speed etc., the Polyurethane compound is selected and the Square Ring compound is selected considering the media compatibility, temperature etc.



Reciprocating



Oscillating



Rotary



Helix



Static



Single Acting



Double Acting



Diameter Range

Ø10.00 – Ø320.00



Standard material

TRIATHANE® T479 (Polyurethane) Sealing Element with Energiser in TRIAFLEX® T571 (NBR 70 Shores)



Temperature(°C)

-30°C to 130°C



Speed

≤ 0.50 m/s



Fluids

Hydraulic fluids (Mineral Oil based), Water, Air etc depending on Seal Compounds selected



Pressure

≤ 400 bar

Material Details

Seal Material	Seal Material Code	Square-Ring Material	Square-Ring Material code
TRIATHANE® Poly-Urethane	T479	TRIAFLEX® NBR 70 Shore	N

Nomenclature

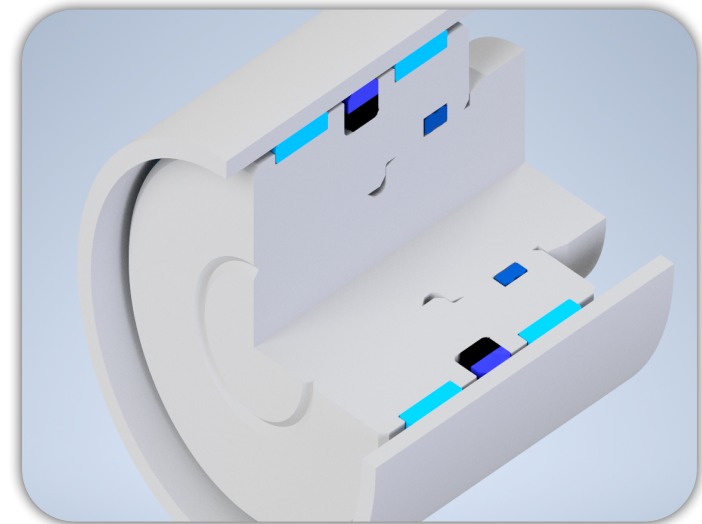
Part No	PPK	0250	0175	032	T479	N
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	Square-Ring Material	

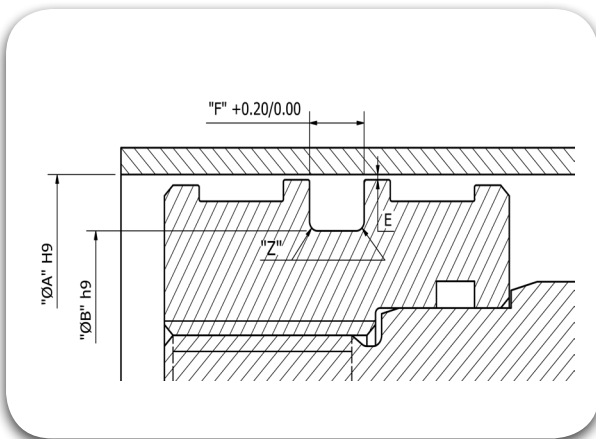
Groove Details

Operating Pressure Bar	Radial Clearance "E" max	
	ØA < 60mm	ØA > 60mm
50	0.40	0.50
100	0.30	0.40
200	0.20	0.30
300	0.15	0.20
400	0.10	0.15

Groove Details

Groove Width	Radius "Z"
0.00 - 3.20	0.20
3.30 - 4.20	0.30
4.30 - 8.10	0.40





25.00

Part No

PPK 0250 0175 032

Groove Dimension

ØA x ØB x F
25.00 x 17.50 x 3.20

32.00

Part No

PPK 0320 0245 032

Groove Dimension

ØA x ØB x F
32.00 x 24.50 x 3.20

40.00

Part No

PPK 0400 0290 042

Groove Dimension

ØA x ØB x F
40.00 x 29.00 x 4.20

45.00

Part No

PPK 0450 0340 042

Groove Dimension

ØA x ØB x F
45.00 x 34.00 x 4.20

50.00

Part No

PPK 0500 0390 042

Groove Dimension

ØA x ØB x F
50.00 x 39.00 x 4.20

50.00

Part No

PPK 0500 0345 063

Groove Dimension

ØA x ØB x F
50.00 x 34.50 x 6.30

50.00

Part No

PPK 0500 0370 063

Groove Dimension

ØA x ØB x F
50.00 x 37.00 x 6.30

55.00

Part No

PPK 0550 0440 042

Groove Dimension

ØA x ØB x F
55.00 x 44.00 x 4.20

60.00

Part No

PPK 0600 0490 042

Groove Dimension

ØA x ØB x F
60.00 x 49.00 x 4.20

60.00

Part No

PPK 0600 0445 063

Groove Dimension

ØA x ØB x F
60.00 x 44.50 x 6.30

63.00

Part No

PPK 0630 0520 042

Groove Dimension

ØA x ØB x F
63.00 x 52.00 x 4.20

63.00

Part No

PPK 0630 0500 063

Groove Dimension

ØA x ØB x F
63.00 x 50.00 x 6.30

65.00

Part No

PPK 0650 0540 042

Groove Dimension

ØA x ØB x F
65.00 x 54.00 x 4.20

70.00

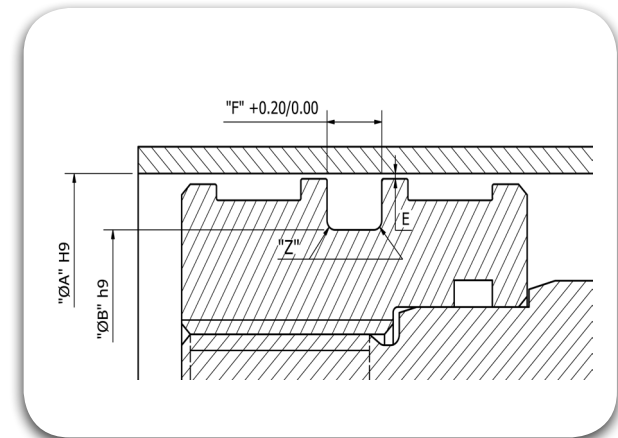
Part No PPK 0700 0590 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
70.00 x 59.00 x 4.20

70.00

Part No PPK 0700 0545 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
70.00 x 54.50 x 6.30



70.00

Part No PPK 0700 0570 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
70.00 x 57.00 x 6.30

75.00

Part No PPK 0750 0640 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 64.00 x 4.20

80.00

Part No PPK 0800 0645 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 64.50 x 6.30

85.00

Part No PPK 0850 0695 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
85.00 x 69.50 x 6.30

90.00

Part No PPK 0900 0745 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 74.50 x 6.30

95.00

Part No PPK 0950 0795 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 79.50 x 6.30

100.00

Part No PPK 1000 0845 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
100.00 x 84.50 x 6.30

100.00

Part No PPK 1000 0790 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
100.00 x 79.00 x 8.10

105.00

Part No PPK 1050 0895 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
105.00 x 89.50 x 6.30

110.00

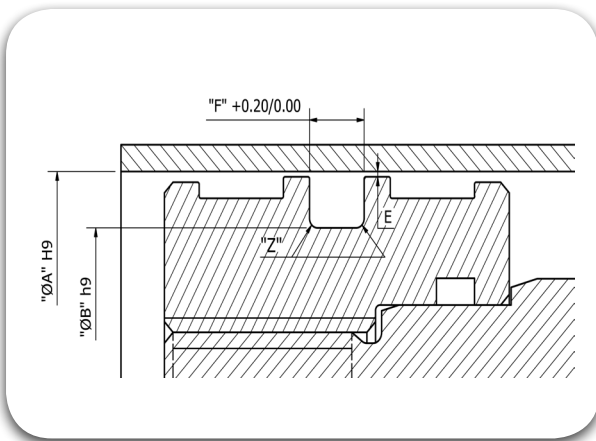
Part No PPK 1100 0945 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
110.00 x 94.50 x 6.30

115.00

Part No PPK 1150 0995 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
115.00 x 99.50 x 6.30



120.00

Part No

PPK 1200 1045 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 104.50 x 6.30

125.00

Part No

PPK 1250 1095 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
125.00 x 109.50 x 6.30

130.00

Part No

PPK 1300 1145 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 114.50 x 6.30

130.00

Part No

PPK 1300 1090 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 109.00 x 8.10

135.00

Part No

PPK 1350 1140 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
135.00 x 114.00 x 8.10

140.00

Part No

PPK 1400 1190 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 119.00 x 8.10

145.00

Part No

PPK 1450 1240 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
145.00 x 124.00 x 8.10

150.00

Part No

PPK 1500 1290 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
150.00 x 129.00 x 8.10

155.00

Part No

PPK 1550 1340 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
155.00 x 134.00 x 8.10

160.00

Part No

PPK 1600 1390 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
160.00 x 139.00 x 8.10

160.00

Part No

PPK 1600 1440 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
160.00 x 144.00 x 6.30

170.00

Part No

PPK 1700 1490 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
170.00 x 149.00 x 8.10

180.00

Part No

PPK 1800 1590 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
180.00 x 159.00 x 8.10

190.00

Part No

PPK 1900 1690 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
190.00 x 169.00 x 8.10

200.00

Part No

PPK 2000 1790 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
200.00 x 179.00 x 8.10

220.00

Part No

PPK 2200 1990 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
220.00 x 199.00 x 8.10

250.00

Part No

PPK 2500 2290 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
250.00 x 229.00 x 8.10

280.00

Part No

PPK 2800 2590 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
280.00 x 259.00 x 8.10

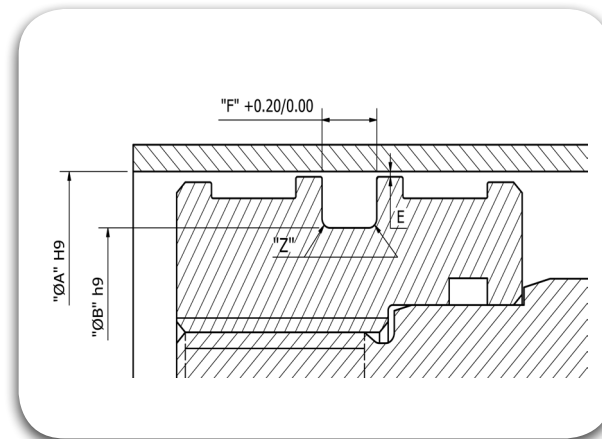
320.00

Part No

PPK 3200 2990 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
320.00 x 299.00 x 8.10

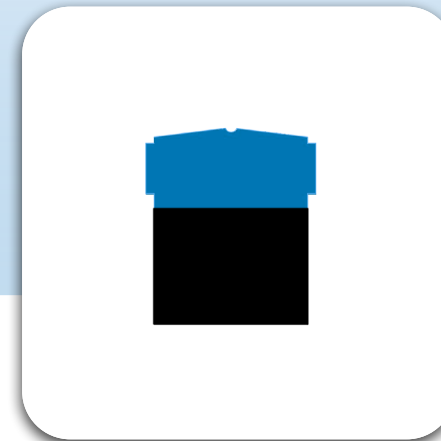




Piston Seals PSK









#SealingExcellence



Description

The PSK is a bidirectional seal and composed of two elements. The dynamic seal is a ring in TRIATHANE® (Polyurethane) while the static seal is a TRIAFLEX® (Square Ring) also acting as energizer. The taper on the seal lip provide wear resistance, and low co-efficient of friction. Depending on the application, media, cycle speed etc., the Polyurethane compound is selected and the Square Ring compound is selected considering the media compatibility, temperature etc.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø10.00 – Ø320.00
 Standard material	TRIATHANE® T479 (Polyurethane) Sealing Element with Energiser in TRIAFLEX® T571 (NBR 70 Shores)
 Temperature(°C)	-30°C to 130°C
 Speed	≤ 0.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based).
 Pressure	≤ 400 bar

Material Details

Seal Material	Seal Material Code	Square-Ring Material	Square-Ring Material code
TRIATHANE® Poly-Urethane	T479	TRIAFLEX® T571 NBR 70 Shore	N

Groove Details

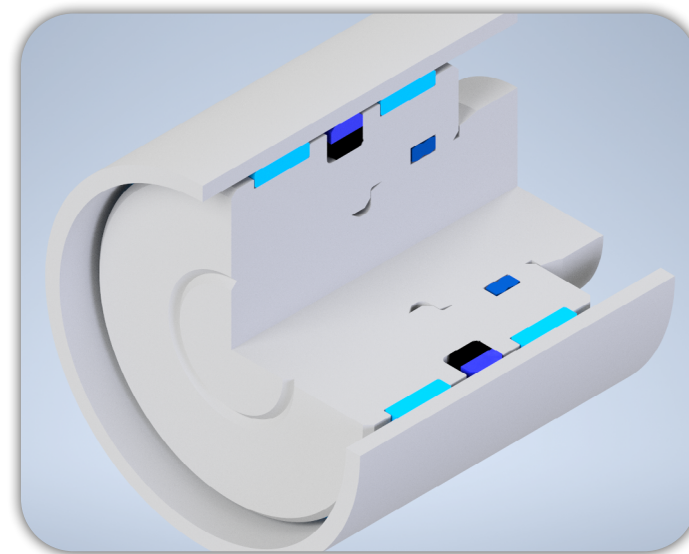
Operating Pressure Bar	Radial Clearance "E" max	
	ØA < 60mm	ØA > 60mm
50	0.40	0.50
100	0.30	0.40
200	0.20	0.30
300	0.15	0.20
400	0.10	0.15

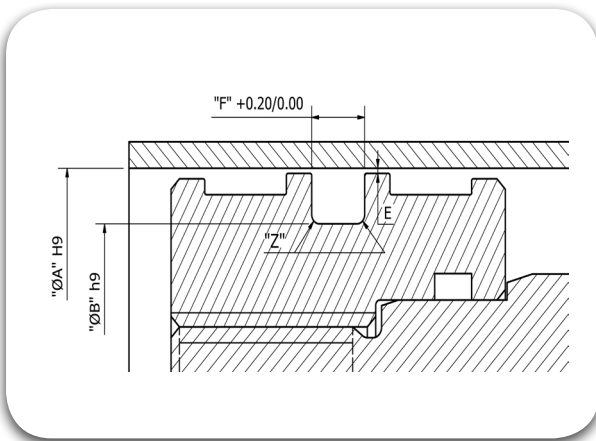
Groove Details

Groove Width	Radius "Z"
0.00 - 4.20	0.30
4.30 - 8.10	0.40

Nomenclature

Part No	PSK	0250	0175	032	T479	N
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	Square-Ring Material	





40.00

Part No PSK 0400 0245 063

Groove Dimension ØA x ØB x F
40.00 x 24.50 x 6.30

40.00

Part No PSK 0400 0290 042

Groove Dimension ØA x ØB x F
40.00 x 29.00 x 4.20

45.00

Part No PSK 0450 0340 042

Groove Dimension ØA x ØB x F
45.00 x 34.00 x 4.20

50.00

Part No PSK 0500 0345 063

Groove Dimension ØA x ØB x F
50.00 x 34.50 x 6.30

50.00

Part No PSK 0500 0390 042

Groove Dimension ØA x ØB x F
50.00 x 39.00 x 4.20

55.00

Part No PSK 0550 0395 063

Groove Dimension ØA x ØB x F
55.00 x 39.50 x 6.30

55.00

Part No PSK 0550 0440 042

Groove Dimension ØA x ØB x F
55.00 x 44.00 x 4.20

60.00

Part No PSK 0600 0445 063

Groove Dimension ØA x ØB x F
60.00 x 44.50 x 6.30

63.00

Part No PSK 0630 0475 063

Groove Dimension ØA x ØB x F
63.00 x 47.50 x 6.30

63.00

Part No PSK 0630 0520 042

Groove Dimension ØA x ØB x F
63.00 x 52.00 x 4.20

65.00

Part No PSK 0650 0495 063

Groove Dimension ØA x ØB x F
65.00 x 49.50 x 6.30

70.00

Part No PSK 0700 0545 063

Groove Dimension ØA x ØB x F
70.00 x 54.50 x 6.30

70.00

Part No PSK 0700 0590 042

Groove Dimension ØA x ØB x F
70.00 x 59.00 x 4.20

75.00

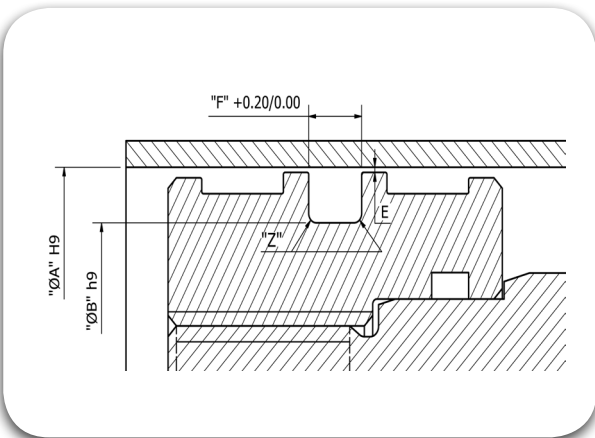
Part No PSK 0750 0595 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 59.50 x 6.30

80.00

Part No PSK 0800 0590 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 59.00 x 8.10



80.00

Part No PSK 0800 0645 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 64.50 x 6.30

85.00

Part No PSK 0850 0695 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
85.00 x 69.50 x 6.30

90.00

Part No PSK 0900 0690 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 69.00 x 8.10

90.00

Part No PSK 0900 0745 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 74.50 x 6.30

95.00

Part No PSK 0950 0795 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 79.50 x 6.30

100.00

Part No PSK 1000 0790 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
100.00 x 79.00 x 8.10

100.00

Part No PSK 1000 0845 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
100.00 x 84.50 x 6.30

120.00

Part No PSK 1200 0990 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
120.00 x 99.00 x 8.10

120.00

Part No PSK 1200 1045 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
120.00 x 104.50 x 6.30

125.00

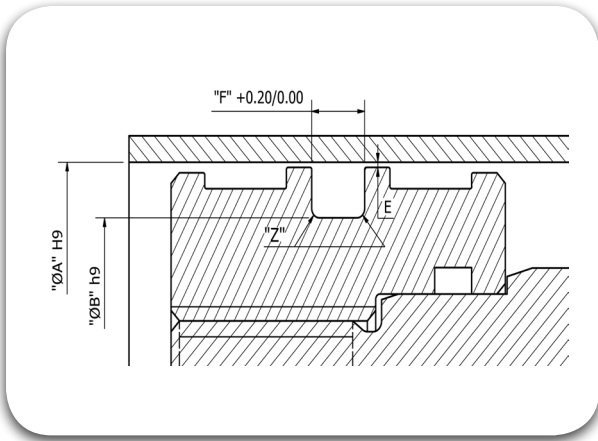
Part No PSK 1250 1040 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
125.00 x 104.00 x 8.10

125.00

Part No PSK 1250 1095 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
125.00 x 109.50 x 6.30



130.00

Part No PSK 1300 1090 081

Groove Dimension

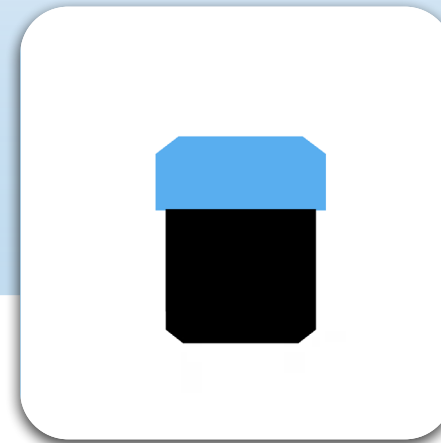
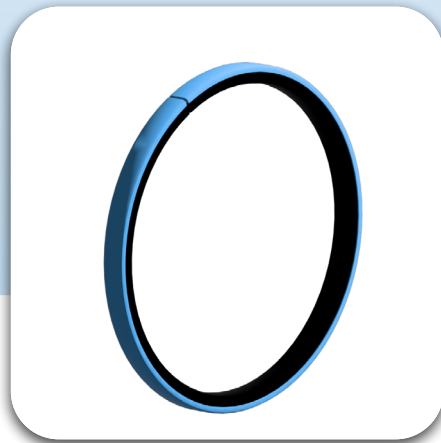
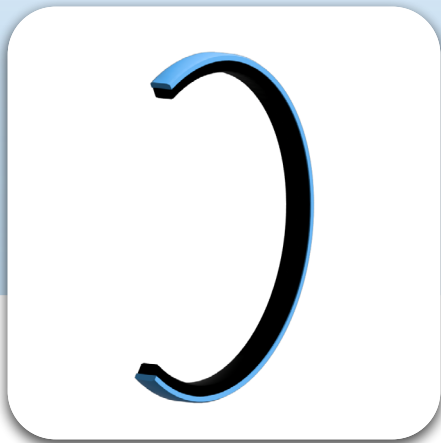
ØA	x	ØB	x	F
130.00		109.00		8.10



Piston Seals PGK









#SealingExcellence



Description

The PGK is a bidirectional seal and composed of two elements. The dynamic seal is a ring in TRIAMIDE® (Glass Filled Polyamide) while the static seal is a TRIAFLEX® (Square Ring) also acting as energizer. The Cut on the seal prevents the seal failure in case of a ballooning or expansion of the Cylinder and it is so designed that the oil does not move from the pressurized chamber to the other. Depending on the application, media, cycle speed etc., the Polyamide compound is selected and the Square Ring compound is selected considering the media compatibility, temperature etc.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø8.00 – Ø320.00
 Standard material	TRIAMIDE® T486 (Glass Filled Polyamide) with the Energizer in TRIAFLEX® T571 (NBR 70 Shores)
 Temperature(°C)	-30°C to 130°C .
 Speed	≤ 1.00 m/s
 Fluids	Mineral oils (for other media please check with Triada® Application Engineering)
 Pressure	≤ 600 bar

Material Details

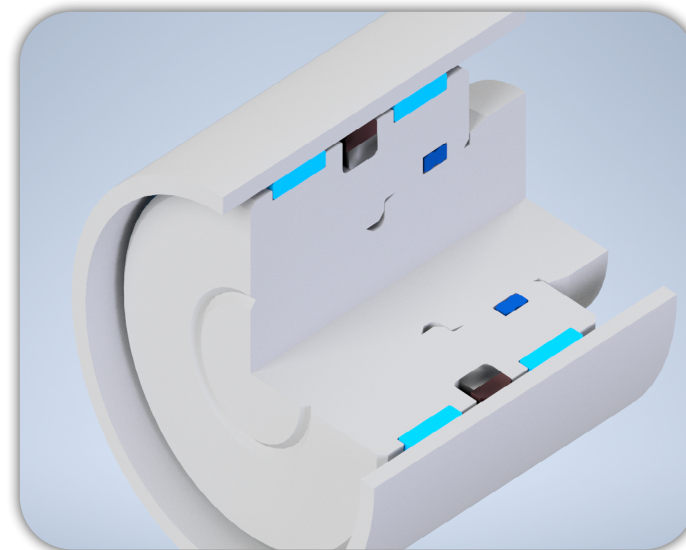
Seal Material	Seal Material Code	Square-Ring Material	Square-Ring Material code
TRIAMIDE® Polyamide + Glass Fillings	T486	TRIAFLEX® T571 NBR 70 Shore	N

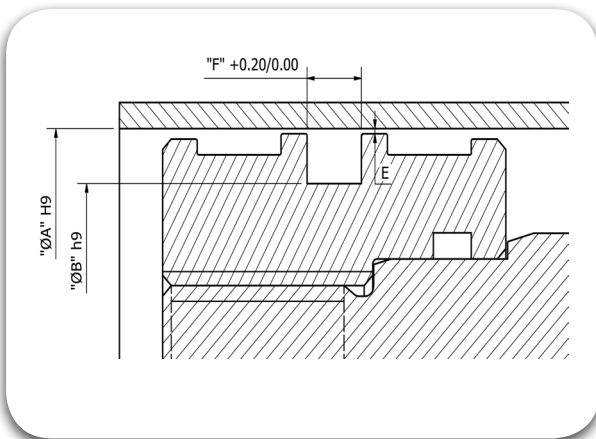
Nomenclature

Part No	PGK	0250	0175	032	T486	N
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	Square-Ring Material	

Groove Details

Operating Pressure Bar	Radial Clearance "E" max		
	F = 4.20	F = 6.30	F = 8.10
0 - 200	0.50	0.70	0.80
200 - 500	0.35	0.50	0.60
500 - 600	H8 / F7	H8 / F7	H8 / F7





60.00

Part No PGK 0600 0490 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
60.00 x 49.00 x 4.20

63.00

Part No PGK 0630 0475 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.00 x 47.50 x 6.30

70.00

Part No PGK 0700 0545 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
70.00 x 54.50 x 6.30

75.00

Part No PGK 0750 0540 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 54.00 x 8.10

80.00

Part No PGK 0800 0590 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 59.00 x 8.10

80.00

Part No PGK 0800 0645 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 64.50 x 6.30

85.00

Part No PGK 0850 0695 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
85.00 x 69.50 x 6.30

90.00

Part No PGK 0900 0690 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 69.00 x 8.10

90.00

Part No PGK 0900 0745 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 74.50 x 6.30

95.00

Part No PGK 0950 0795 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 79.50 x 6.30

100.00

Part No PGK 1000 0790 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
100.00 x 79.00 x 8.10

100.00

Part No PGK 1000 0845 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
100.00 x 84.50 x 6.30

105.00

Part No PGK 1050 0840 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
105.00 x 84.00 x 8.10

110.00

Part No

PGK 1100 0890 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
110.00 x 89.00 x 8.10

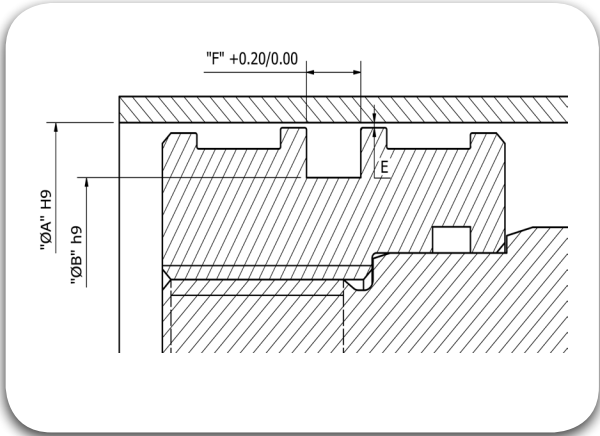
110.00

Part No

PGK 1100 0945 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
110.00 x 94.50 x 6.30



115.00

Part No

PGK 1150 0940 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
115.00 x 94.00 x 8.10

120.00

Part No

PGK 1200 0990 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 99.00 x 8.10

125.00

Part No

PGK 1250 1040 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
125.00 x 104.00 x 8.10

130.00

Part No

PGK 1300 1090 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 109.00 x 8.10

135.00

Part No

PGK 1350 1140 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
135.00 x 114.00 x 8.10

140.00

Part No

PGK 1400 1190 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 119.00 x 8.10

145.00

Part No

PGK 1450 1240 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
145.00 x 124.00 x 8.10

150.00

Part No

PGK 1500 1290 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
150.00 x 129.00 x 8.10

160.00

Part No

PGK 1600 1390 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
160.00 x 139.00 x 8.10

165.00

Part No

PGK 1650 1440 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
165.00 x 144.00 x 8.10

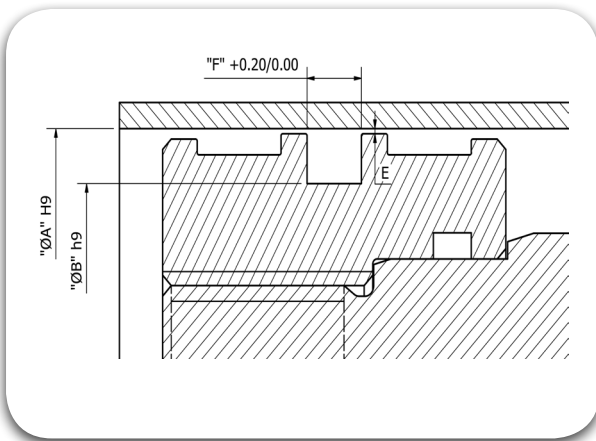
170.00

Part No

PGK 1700 1490 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
170.00 x 149.00 x 8.10



175.00

Part No PGK 1750 1540 081

Groove Dimension $\frac{\text{ØA}}{175.00} \times \frac{\text{ØB}}{154.00} \times \frac{\text{F}}{8.10}$

180.00

Part No PGK 1800 1590 081

Groove Dimension $\frac{\text{ØA}}{180.00} \times \frac{\text{ØB}}{159.00} \times \frac{\text{F}}{8.10}$

190.00

Part No PGK 1900 1690 081

Groove Dimension $\frac{\text{ØA}}{190.00} \times \frac{\text{ØB}}{169.00} \times \frac{\text{F}}{8.10}$

200.00

Part No PGK 2000 1790 081

Groove Dimension $\frac{\text{ØA}}{200.00} \times \frac{\text{ØB}}{179.00} \times \frac{\text{F}}{8.10}$

210.00

Part No PGK 2100 1890 081

Groove Dimension $\frac{\text{ØA}}{210.00} \times \frac{\text{ØB}}{189.00} \times \frac{\text{F}}{8.10}$

220.00

Part No PGK 2200 1990 081

Groove Dimension $\frac{\text{ØA}}{220.00} \times \frac{\text{ØB}}{199.00} \times \frac{\text{F}}{8.10}$

230.00

Part No PGK 2300 2090 081

Groove Dimension $\frac{\text{ØA}}{230.00} \times \frac{\text{ØB}}{209.00} \times \frac{\text{F}}{8.10}$

250.00

Part No PGK 2500 2290 081

Groove Dimension $\frac{\text{ØA}}{250.00} \times \frac{\text{ØB}}{229.00} \times \frac{\text{F}}{8.10}$

260.00

Part No PGK 2600 2390 081

Groove Dimension $\frac{\text{ØA}}{260.00} \times \frac{\text{ØB}}{239.00} \times \frac{\text{F}}{8.10}$

280.00

Part No PGK 2800 2550 081

Groove Dimension $\frac{\text{ØA}}{280.00} \times \frac{\text{ØB}}{255.50} \times \frac{\text{F}}{8.10}$



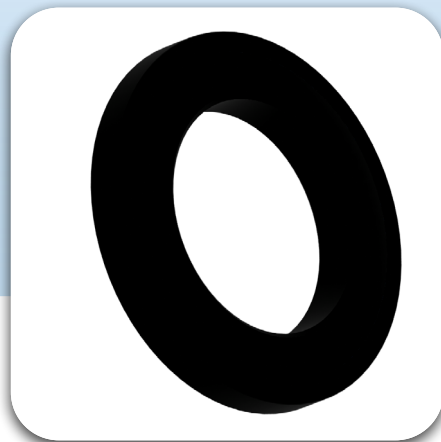
Piston Seals

PAB









TRIADA
TECHNOLOGIES

#SealingExcellence



Description

The PAB type seal is a compact Piston seal which possess an excellent sealing performance even at the low pressure due to the radial preload; the material used for this seal provides high wear resistance and good chemical resistance.

 Diameter Range	Ø30.00 – Ø482.00
 Standard material	TRIAFLEX® T543 (cotton fabric reinforced material)
 Temperature(°C)	-35°C to 130°C
 Speed	≤ 0.50 m/s
 Fluids	Mineral Hydraulic Fluids (for other media, please contact TRIADA® Application Engineering)
 Pressure	≤ 250 bar

-  Reciprocating
-  Oscillating
-  Rotary
-  Helix
-  Static
-  Single Acting
-  Double Acting

Material Details

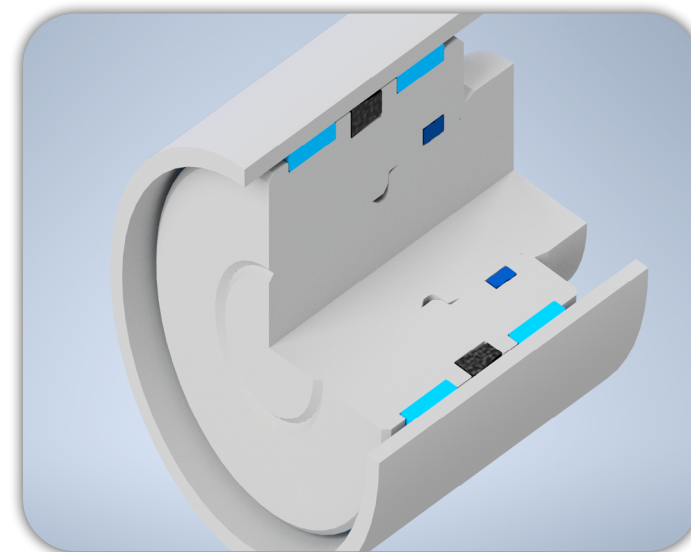
Seal Material	Seal Material Code
TRIAFLEX® cotton fabric reinforced material impregnated with NBR 70 Shores A	T543

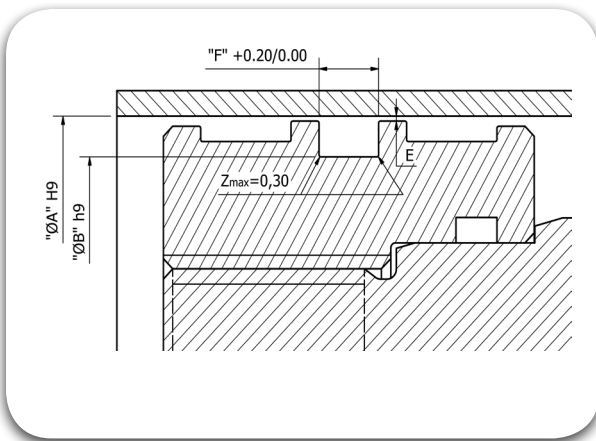
Nomenclature

Part No	PAB	0100	0060	050	T543
Seal profile		Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code

Groove Details

Operating Pressure Bar	Radial Clearance "E" max
160	0.20
250	0.10





10.00

Part No PAB 0100 0060 050

Groove Dimension ØA x ØB x F
 10.00 x 6.00 x 5.00

12.70

Part No PAB 0127 0047 064

Groove Dimension ØA x ØB x F
 12.70 x 4.76 x 6.40

14.00

Part No PAB 0140 0060 064

Groove Dimension ØA x ØB x F
 14.00 x 6.00 x 6.40

14.28

Part No PAB 0142 0063 068

Groove Dimension ØA x ØB x F
 14.28 x 6.35 x 6.85

15.00

Part No PAB 0150 0080 064

Groove Dimension ØA x ØB x F
 15.00 x 8.00 x 6.40

17.00

Part No PAB 0170 0100 064

Groove Dimension ØA x ØB x F
 17.00 x 10.00 x 6.40

18.00

Part No PAB 0180 0100 060

Groove Dimension ØA x ØB x F
 18.00 x 10.00 x 6.00

18.00

Part No PAB 0180 0120 075

Groove Dimension ØA x ØB x F
 18.00 x 12.00 x 7.50

19.00

Part No PAB 0190 0120 063

Groove Dimension ØA x ØB x F
 19.00 x 12.00 x 6.30

19.05

Part No PAB 0190 0127 052

Groove Dimension ØA x ØB x F
 19.05 x 12.70 x 5.25

20.00

Part No PAB 0200 0120 064

Groove Dimension ØA x ØB x F
 20.00 x 12.00 x 6.40

20.63

Part No PAB 0206 0110 076

Groove Dimension ØA x ØB x F
 20.63 x 11.00 x 7.65

20.63

Part No PAB 0206 0127 068

Groove Dimension ØA x ØB x F
 20.63 x 12.70 x 6.85

22.00

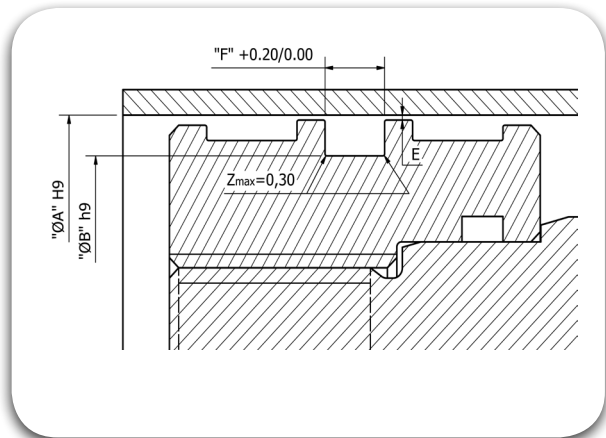
Part No PAB 0220 0140 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
22.00 x 14.00 x 6.50

22.22

Part No PAB 0222 0127 076

Groove Dimension $\varnothing A \times \varnothing B \times F$
22.22 x 12.70 x 7.65



22.22

Part No PAB 0222 0158 052

Groove Dimension $\varnothing A \times \varnothing B \times F$
22.22 x 15.87 x 5.25

23.00

Part No PAB 0230 0150 064

Groove Dimension $\varnothing A \times \varnothing B \times F$
23.00 x 15.00 x 6.40

23.81

Part No PAB 0238 0142 076

Groove Dimension $\varnothing A \times \varnothing B \times F$
23.81 x 14.28 x 7.65

24.00

Part No PAB 0240 0160 064

Groove Dimension $\varnothing A \times \varnothing B \times F$
24.00 x 16.00 x 6.40

24.00

Part No PAB 0240 0160 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
24.00 x 16.00 x 7.00

25.00

Part No PAB 0250 0180 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
25.00 x 18.00 x 8.00

25.40

Part No PAB 0254 0158 076

Groove Dimension $\varnothing A \times \varnothing B \times F$
25.40 x 15.87 x 7.65

26.00

Part No PAB 0260 0180 064

Groove Dimension $\varnothing A \times \varnothing B \times F$
26.00 x 18.00 x 6.40

26.00

Part No PAB 0260 0180 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
26.00 x 18.00 x 7.00

27.00

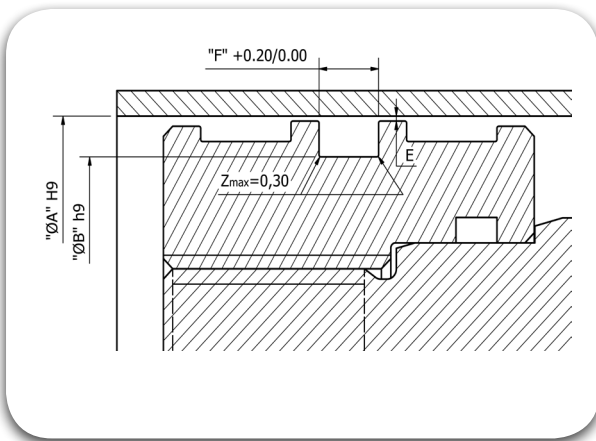
Part No PAB 0270 0200 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
27.00 x 20.00 x 6.50

28.00

Part No PAB 0280 0180 063

Groove Dimension $\varnothing A \times \varnothing B \times F$
28.00 x 18.00 x 6.30



28.00

Part No PAB 0280 0200 063
Groove Dimension ØA x ØB x F
 28.00 x 20.00 x 6.30

28.00

Part No PAB 0280 0200 070
Groove Dimension ØA x ØB x F
 28.00 x 20.00 x 7.00

28.58

Part No PAB 0285 0190 090
Groove Dimension ØA x ØB x F
 28.58 x 19.05 x 9.00

30.00

Part No PAB 0300 0200 085
Groove Dimension ØA x ØB x F
 30.00 x 20.00 x 8.50

30.00

Part No PAB 0300 0220 065
Groove Dimension ØA x ØB x F
 30.00 x 22.00 x 6.50

30.00

Part No PAB 0300 0220 070
Groove Dimension ØA x ØB x F
 30.00 x 22.00 x 7.00

30.16

Part No PAB 0301 0174 100
Groove Dimension ØA x ØB x F
 30.16 x 17.46 x 10.00

31.75

Part No PAB 0317 0190 085
Groove Dimension ØA x ØB x F
 31.75 x 19.05 x 8.50

31.75

Part No PAB 0317 0222 092
Groove Dimension ØA x ØB x F
 31.75 x 22.22 x 9.20

31.75

Part No PAB 0317 0254 052
Groove Dimension ØA x ØB x F
 31.75 x 25.40 x 5.25

32.00

Part No PAB 0320 0240 075
Groove Dimension ØA x ØB x F
 32.00 x 24.00 x 7.50

33.00

Part No PAB 0330 0250 064
Groove Dimension ØA x ØB x F
 33.00 x 25.00 x 6.40

33.33

Part No PAB 0333 0206 100
Groove Dimension ØA x ØB x F
 33.33 x 20.63 x 10.00

34.00

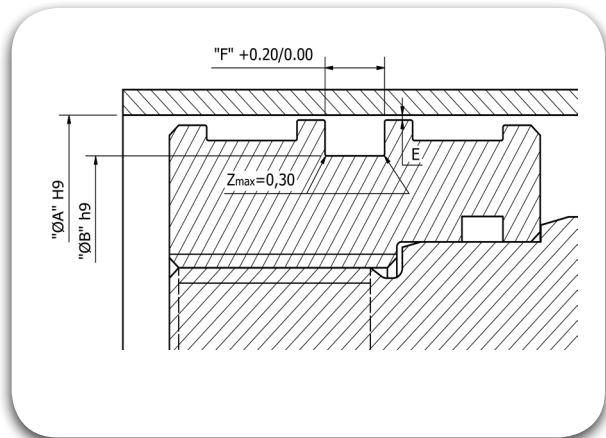
Part No PAB 0340 0240 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
34.00 x 24.00 x 6.50

34.92

Part No PAB 0349 0254 068

Groove Dimension $\varnothing A \times \varnothing B \times F$
34.92 x 25.40 x 6.85



35.00

Part No PAB 0350 0200 115

Groove Dimension $\varnothing A \times \varnothing B \times F$
35.00 x 20.00 x 11.50

35.00

Part No PAB 0350 0220 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
35.00 x 22.00 x 10.00

35.00

Part No PAB 0350 0250 090

Groove Dimension $\varnothing A \times \varnothing B \times F$
35.00 x 25.00 x 9.00

35.00

Part No PAB 0350 0270 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
35.00 x 27.00 x 6.50

36.00

Part No PAB 0360 0280 064

Groove Dimension $\varnothing A \times \varnothing B \times F$
36.00 x 28.00 x 6.40

36.51

Part No PAB 0365 0238 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
36.51 x 23.81 x 10.00

37.50

Part No PAB 0375 0300 065

Groove Dimension $\varnothing A \times \varnothing B \times F$
37.50 x 30.00 x 6.50

38.00

Part No PAB 0380 0250 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
38.00 x 25.00 x 10.00

38.00

Part No PAB 0380 0300 064

Groove Dimension $\varnothing A \times \varnothing B \times F$
38.00 x 30.00 x 6.40

38.10

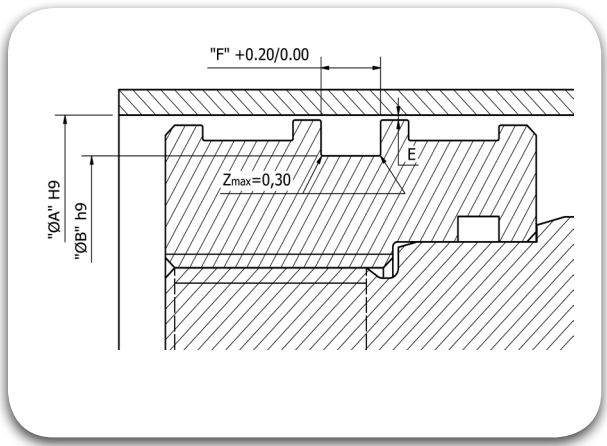
Part No PAB 0381 0254 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
38.10 x 25.40 x 10.00

39.68

Part No PAB 0396 0281 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
39.68 x 28.19 x 8.00



40.00

Part No PAB 0400 0260 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
40.00 x 26.00 x 10.00

40.00

Part No PAB 0400 0300 075

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
40.00 x 30.00 x 7.50

40.00

Part No PAB 0400 0320 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
40.00 x 32.00 x 6.30

40.00

Part No PAB 0400 0320 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
40.00 x 32.00 x 9.00

41.27

Part No PAB 0412 0254 116

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
41.27 x 25.40 x 11.60

41.27

Part No PAB 0412 0285 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
41.27 x 28.57 x 10.00

41.60

Part No PAB 0416 0300 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
41.60 x 30.00 x 8.00

43.00

Part No PAB 0430 0350 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
43.00 x 35.00 x 6.50

43.00

Part No PAB 0430 0360 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
43.00 x 36.00 x 6.50

44.00

Part No PAB 0440 0250 125

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
44.00 x 25.00 x 12.50

44.00

Part No PAB 0440 0360 064

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
44.00 x 36.00 x 6.40

44.45

Part No PAB 0444 0285 116

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
44.45 x 28.57 x 11.60

45.00

Part No PAB 0450 0300 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
45.00 x 30.00 x 9.00

45.00

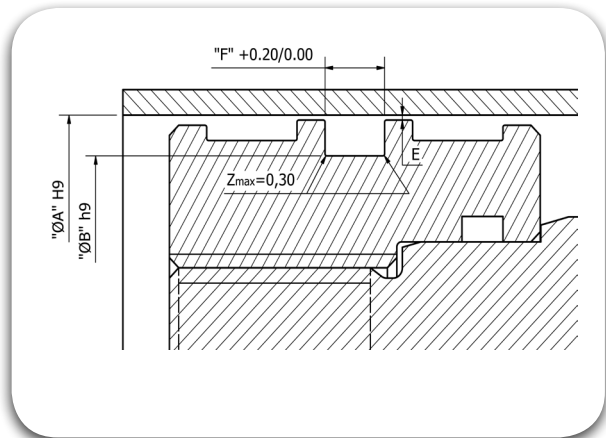
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
45.00 x 35.00 x 8.00

45.00

Part No PAB 0450 0350 135

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
45.00 x 35.00 x 13.50



47.62

Part No PAB 0476 0317 116

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
47.62 x 31.75 x 11.60

47.62

Part No PAB 0476 0381 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
47.62 x 38.10 x 6.35

48.00

Part No PAB 0480 0360 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
48.00 x 36.00 x 9.50

48.00

Part No PAB 0480 0400 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
48.00 x 40.00 x 6.50

50.00

Part No PAB 0500 0300 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 30.00 x 14.50

50.00

Part No PAB 0500 0350 115

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 35.00 x 11.50

50.00

Part No PAB 0500 0380 095

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 38.00 x 9.50

50.00

Part No PAB 0500 0400 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 40.00 x 8.00

50.00

Part No PAB 0500 0400 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 40.00 x 11.00

50.00

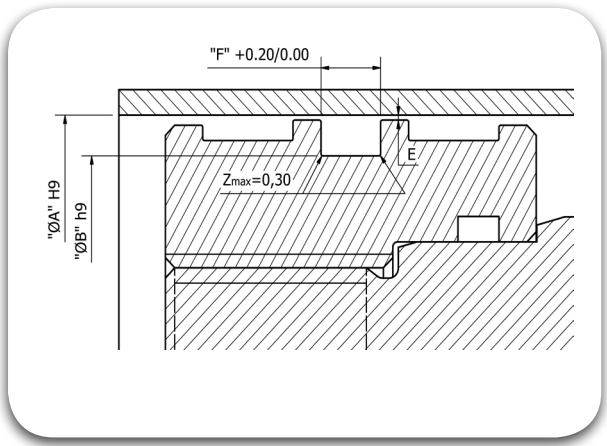
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 40.00 x 13.50

50.00

Part No PAB 0500 0420 064

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 42.00 x 6.40



50.80

Part No PAB 0508 0349 085

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.80 x 34.92 x 8.50

50.80

Part No PAB 0508 0349 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.80 x 34.92 x 10.00

50.80

Part No PAB 0508 0349 116

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.80 x 34.92 x 11.60

50.80

Part No PAB 0508 0377 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.80 x 37.72 x 9.00

50.80

Part No PAB 0508 0381 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.80 x 38.10 x 10.00

50.80

Part No PAB 0508 0381 124

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.80 x 38.10 x 12.40

53.00

Part No PAB 0530 0430 090

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
53.00 x 43.00 x 9.00

53.00

Part No PAB 0530 0440 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
53.00 x 44.00 x 8.00

53.00

Part No PAB 0530 0450 065

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
53.00 x 45.00 x 6.50

53.97

Part No PAB 0539 0381 115

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
53.97 x 38.10 x 11.50

53.97

Part No PAB 0539 0381 128

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
53.97 x 38.10 x 12.83

55.00

Part No PAB 0550 0450 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.00 x 45.00 x 8.00

55.37

Part No PAB 0553 0459 083

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.37 x 45.97 x 8.33

55.50

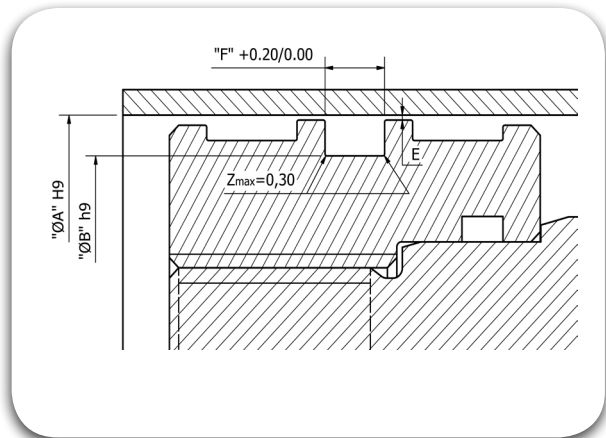
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Groove Dimension $\varnothing A \times \varnothing B \times F$
55.50 x 42.92 x 8.90

56.00

Part No PAB 0560 0460 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
56.00 x 46.00 x 8.00



57.12

Part No PAB 0571 0412 116

Groove Dimension $\varnothing A \times \varnothing B \times F$
57.12 x 41.27 x 11.60

58.00

Part No PAB 0580 0500 125

Groove Dimension $\varnothing A \times \varnothing B \times F$
58.00 x 50.00 x 12.50

60.00

Part No PAB 0600 0400 145

Groove Dimension $\varnothing A \times \varnothing B \times F$
60.00 x 40.00 x 14.50

60.00

Part No PAB 0600 0480 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
60.00 x 48.00 x 7.00

60.00

Part No PAB 0600 0500 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
60.00 x 50.00 x 8.00

60.00

Part No PAB 0600 0500 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
60.00 x 50.00 x 10.00

60.32

Part No PAB 0603 0444 116

Groove Dimension $\varnothing A \times \varnothing B \times F$
60.32 x 44.45 x 11.60

60.32

Part No PAB 0603 0472 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
60.32 x 47.23 x 10.00

60.35

Part No PAB 0603 0508 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
60.35 x 50.80 x 11.00

61.91

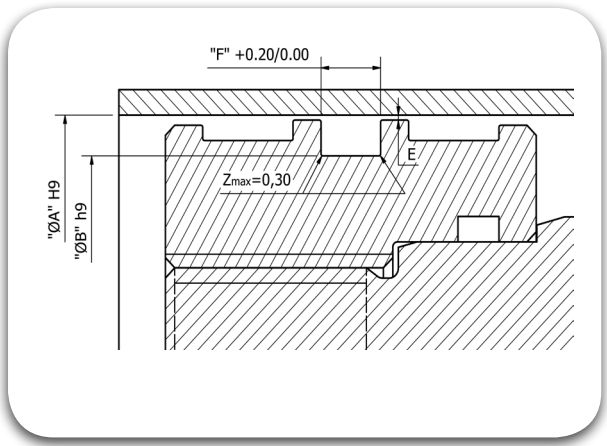
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Groove Dimension $\varnothing A \times \varnothing B \times F$
61.91 x 44.45 x 11.60

62.00

Part No PAB 0620 0500 095

Groove Dimension $\varnothing A \times \varnothing B \times F$
62.00 x 50.00 x 9.50



63.00

Part No PAB 0630 0450 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
63.00 x 45.00 x 11.00

63.50

Part No PAB 0635 0476 115

Groove Dimension $\varnothing A \times \varnothing B \times F$
63.50 x 47.62 x 11.50

64.50

Part No PAB 0645 0500 115

Groove Dimension $\varnothing A \times \varnothing B \times F$
64.50 x 50.00 x 11.50

65.00

Part No PAB 0650 0450 145

Groove Dimension $\varnothing A \times \varnothing B \times F$
65.00 x 45.00 x 14.50

65.00

Part No PAB 0650 0550 110

Groove Dimension $\varnothing A \times \varnothing B \times F$
65.00 x 55.00 x 11.00

66.00

Part No PAB 0660 0560 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
66.00 x 56.00 x 8.00

66.67

Part No PAB 0667 0508 115

Groove Dimension $\varnothing A \times \varnothing B \times F$
66.67 x 50.80 x 11.50

67.00

Part No PAB 0670 0570 080

Groove Dimension $\varnothing A \times \varnothing B \times F$
67.00 x 57.00 x 8.00

69.00

Part No PAB 0690 0610 085

Groove Dimension $\varnothing A \times \varnothing B \times F$
69.00 x 61.00 x 8.50

69.50

Part No PAB 0695 0600 070

Groove Dimension $\varnothing A \times \varnothing B \times F$
69.50 x 60.00 x 7.00

69.85

Part No PAB 0698 0571 100

Groove Dimension $\varnothing A \times \varnothing B \times F$
69.85 x 57.15 x 10.00

70.00

Part No PAB 0700 0500 145

Groove Dimension $\varnothing A \times \varnothing B \times F$
70.00 x 50.00 x 14.50

70.00

Part No PAB 0700 0550 105

Groove Dimension $\varnothing A \times \varnothing B \times F$
70.00 x 55.00 x 10.50

70.00

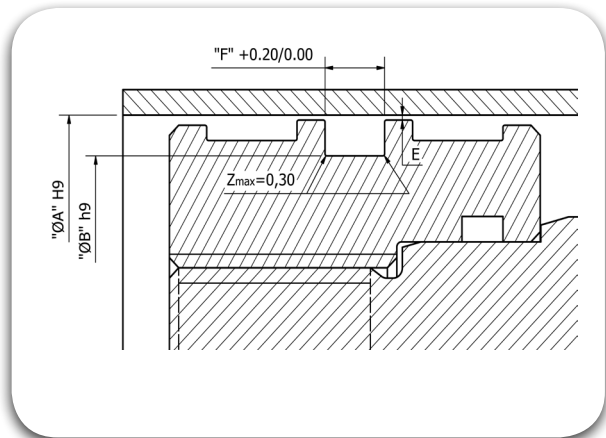
Part No PAB 0700 0600 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
70.00 x 60.00 x 8.00

71.00

Part No PAB 0710 0600 096

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
71.00 x 60.00 x 9.60



72.00

Part No PAB 0720 0600 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
72.00 x 60.00 x 10.00

73.02

Part No PAB 0730 0539 148

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
73.02 x 53.97 x 14.80

73.02

Part No PAB 0730 0571 115

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
73.02 x 57.15 x 11.50

75.00

Part No PAB 0750 0550 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 55.00 x 14.50

75.00

Part No PAB 0750 0600 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 60.00 x 13.00

75.00

Part No PAB 0750 0630 096

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 63.00 x 9.60

75.00

Part No PAB 0750 0650 085

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 65.00 x 8.50

75.00

Part No PAB 0750 0650 135

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 65.00 x 13.50

76.00

Part No PAB 0760 0560 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
76.00 x 56.00 x 14.50

76.00

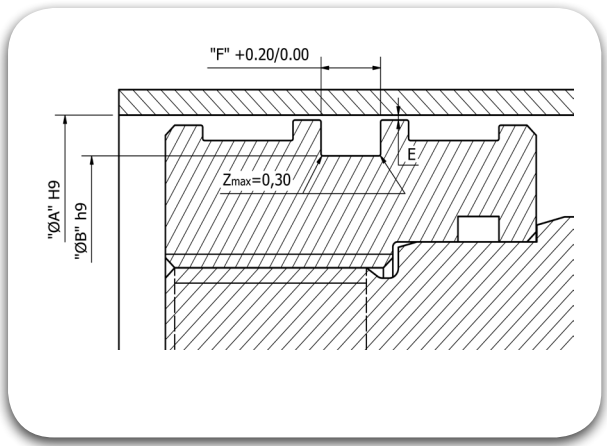
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
76.00 x 68.00 x 8.00

76.20

Part No PAB 0762 0571 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
76.20 x 57.15 x 10.00



76.20

Part No PAB 0762 0571 135

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
76.20 x 57.15 x 13.50

76.20

Part No PAB 0762 0571 142

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
76.20 x 57.15 x 14.28

77.00

Part No PAB 0770 0650 096

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
77.00 x 65.00 x 9.60

77.78

Part No PAB 0777 0635 115

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
77.78 x 63.50 x 11.50

79.37

Part No PAB 0793 0603 148

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
79.37 x 60.32 x 14.80

80.00

Part No PAB 0800 0600 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 60.00 x 14.50

80.00

Part No PAB 0800 0650 115

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 65.00 x 11.50

80.00

Part No PAB 0800 0660 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 66.00 x 11.00

80.00

Part No PAB 0800 0700 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 70.00 x 8.00

82.00

Part No PAB 0820 0700 096

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
82.00 x 70.00 x 9.60

82.55

Part No PAB 0825 0635 142

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
82.55 x 63.50 x 14.28

83.00

Part No PAB 0830 0630 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
83.00 x 63.00 x 14.50

84.00

Part No PAB 0840 0700 125

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
84.00 x 70.00 x 12.50

84.00

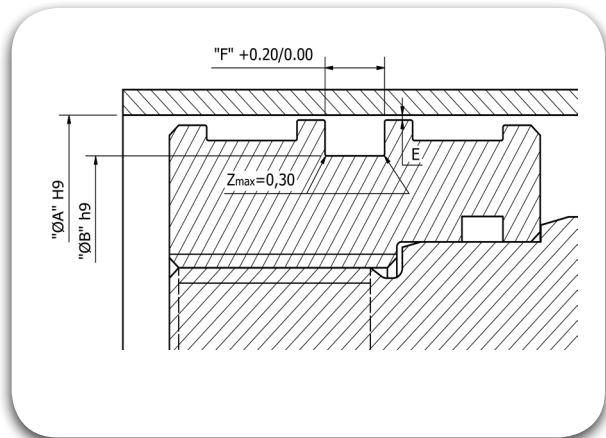
Part No PAB 0840 0760 085

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
84.00 x 76.00 x 8.50

85.00

Part No PAB 0850 0650 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
85.00 x 65.00 x 14.50



85.00

Part No PAB 0850 0700 120

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
85.00 x 70.00 x 12.00

85.00

Part No PAB 0850 0750 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
85.00 x 75.00 x 8.00

85.72

Part No PAB 0857 0666 148

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
85.72 x 66.67 x 14.80

87.00

Part No PAB 0870 0770 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
87.00 x 77.00 x 8.00

88.50

Part No PAB 0885 0790 070

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
88.50 x 79.00 x 7.00

88.90

Part No PAB 0889 0730 125

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
88.90 x 73.02 x 12.50

88.90

Part No PAB 0889 0762 094

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
88.90 x 76.20 x 9.40

89.50

Part No PAB 0895 0750 115

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
89.50 x 75.00 x 11.50

90.00

Part No PAB 0900 0700 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 70.00 x 14.50

90.00

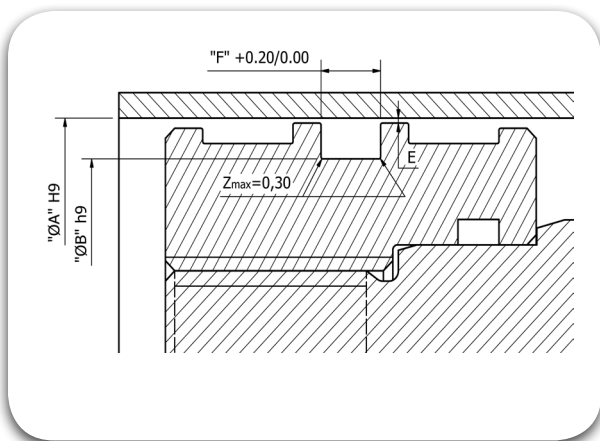
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Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 75.00 x 11.50

90.00

Part No PAB 0900 0800 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 80.00 x 8.00



91.00

Part No PAB 0910 0810 080

Groove Dimension ØA x ØB x F
 91.00 x 81.00 x 8.00

92.00

Part No PAB 0920 0800 096

Groove Dimension ØA x ØB x F
 92.00 x 80.00 x 9.60

94.00

Part No PAB 0940 0840 080

Groove Dimension ØA x ØB x F
 94.00 x 84.00 x 8.00

95.00

Part No PAB 0950 0650 175

Groove Dimension ØA x ØB x F
 95.00 x 65.00 x 17.50

95.00

Part No PAB 0950 0750 110

Groove Dimension ØA x ØB x F
 95.00 x 75.00 x 11.00

95.00

Part No PAB 0950 0850 080

Groove Dimension ØA x ØB x F
 95.00 x 85.00 x 8.00

95.00

Part No PAB 0950 0850 085

Groove Dimension ØA x ØB x F
 95.00 x 85.00 x 8.50

95.25

Part No PAB 0952 0762 148

Groove Dimension ØA x ØB x F
 95.25 x 76.20 x 14.80

96.00

Part No PAB 0960 0800 105

Groove Dimension ØA x ØB x F
 96.00 x 80.00 x 10.50

96.00

Part No PAB 0960 0880 080

Groove Dimension ØA x ØB x F
 96.00 x 88.00 x 8.00

97.00

Part No PAB 0970 0850 096

Groove Dimension ØA x ØB x F
 97.00 x 85.00 x 9.60

99.00

Part No PAB 0990 0910 085

Groove Dimension ØA x ØB x F
 99.00 x 91.00 x 8.50

100.00

Part No PAB 1000 0800 145

Groove Dimension ØA x ØB x F
 100.00 x 80.00 x 14.50

100.00

Part No

PAB 1000 0850 120

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
100.00 x 85.00 x 12.00

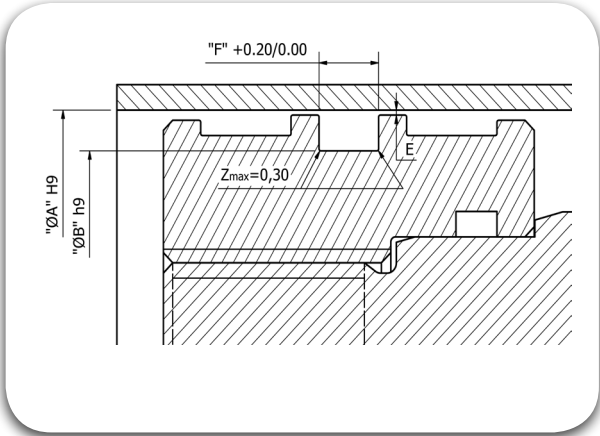
101.60

Part No

PAB 1016 0825 148

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
101.60 x 82.55 x 14.80



101.60

Part No

PAB 1016 0889 100

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
101.60 x 88.90 x 10.00

102.00

Part No

PAB 1020 0900 096

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
102.00 x 90.00 x 9.60

104.77

Part No

PAB 1047 0857 148

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
104.77 x 85.72 x 14.80

105.00

Part No

PAB 1050 0850 145

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
105.00 x 85.00 x 14.50

105.00

Part No

PAB 1050 0950 110

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
105.00 x 95.00 x 11.00

105.00

Part No

PAB 1050 0960 085

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
105.00 x 96.00 x 8.50

107.00

Part No

PAB 1070 0950 125

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
107.00 x 95.00 x 12.50

107.50

Part No

PAB 1075 0980 070

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
107.50 x 98.00 x 7.00

107.95

Part No

PAB 1079 0889 127

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
107.95 x 88.90 x 12.70

108.00

Part No

PAB 1080 0960 125

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
108.00 x 96.00 x 12.50

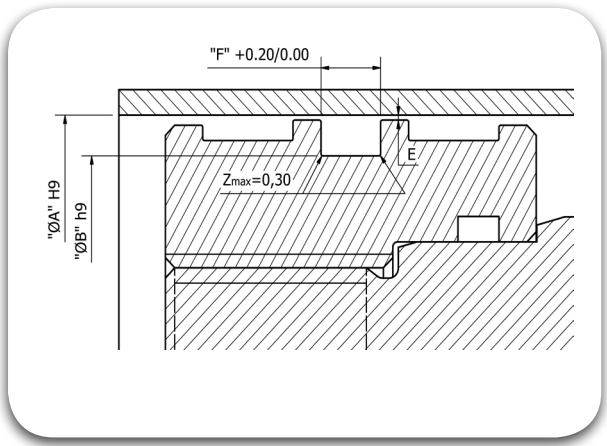
108.00

Part No

PAB 1080 0970 125

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
108.00 x 97.00 x 12.50



110.00

Part No PAB 1100 0850 135

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 110.00 x 85.00 x 13.50

110.00

Part No PAB 1100 0900 125

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 110.00 x 90.00 x 12.50

110.00

Part No PAB 1100 0950 125

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 110.00 x 95.00 x 12.50

111.12

Part No PAB 1111 0857 195

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 111.12 x 85.72 x 19.50

113.00

Part No PAB 1130 1000 135

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 113.00 x 100.00 x 13.50

114.30

Part No PAB 1143 0889 127

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 114.30 x 88.90 x 12.70

114.30

Part No PAB 1143 0952 135

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 114.30 x 95.25 x 13.50

115.00

Part No PAB 1150 1000 115

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 115.00 x 100.00 x 11.50

115.00

Part No PAB 1150 1030 125

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 115.00 x 103.00 x 12.50

115.00

Part No PAB 1150 1050 110

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 115.00 x 105.00 x 11.00

115.00

Part No PAB 1150 1070 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 115.00 x 107.00 x 8.00

116.00

Part No PAB 1160 1060 085

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 116.00 x 106.00 x 8.50

117.00

Part No PAB 1170 1050 125

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
 117.00 x 105.00 x 12.50

117.45

Part No

PAB 1174 0920 132

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
117.45 x 92.07 x 13.20

120.00

Part No

PAB 1200 1000 120

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 100.00 x 12.00

120.00

Part No

PAB 1200 1000 145

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 100.00 x 14.50

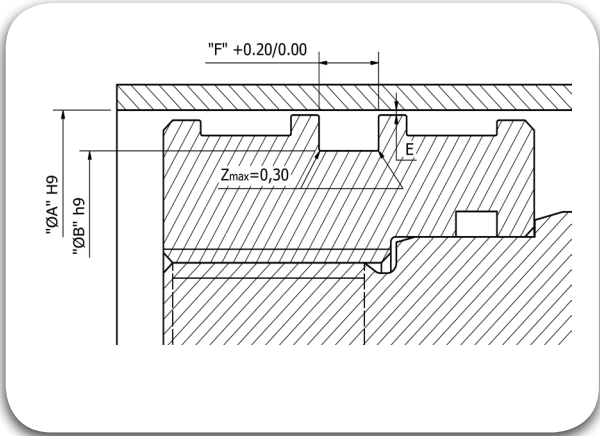
120.00

Part No

PAB 1200 1040 120

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 104.00 x 12.00



120.00

Part No

PAB 1200 1050 120

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 105.00 x 12.00

120.65

Part No

PAB 1206 0952 195

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.65 x 95.25 x 19.50

123.82

Part No

PAB 1238 1015 171

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
123.82 x 101.50 x 17.18

125.00

Part No

PAB 1250 1050 125

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
125.00 x 105.00 x 12.50

125.00

Part No

PAB 1250 1100 120

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
125.00 x 110.00 x 12.00

125.00

Part No

PAB 1250 1150 090

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
125.00 x 115.00 x 9.00

127.00

Part No

PAB 1270 1016 195

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
127.00 x 101.60 x 19.50

130.00

Part No

PAB 1300 1040 195

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 104.00 x 19.50

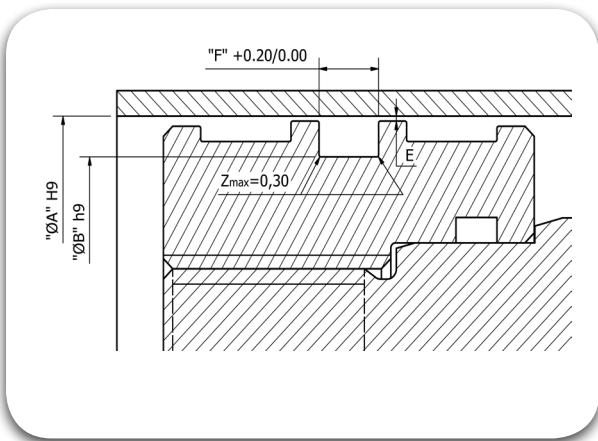
130.00

Part No

PAB 1300 1180 125

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 118.00 x 12.50



130.00

Part No PAB 1300 1200 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
130.00 x 120.00 x 8.00

132.70

Part No PAB 1327 1200 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
132.70 x 120.00 x 10.00

133.00

Part No PAB 1330 1230 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
133.00 x 123.00 x 8.00

133.35

Part No PAB 1333 1070 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
133.35 x 107.95 x 19.00

133.35

Part No PAB 1333 1143 124

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
133.35 x 114.30 x 12.40

134.00

Part No PAB 1340 1260 080

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
134.00 x 126.00 x 8.00

135.00

Part No PAB 1350 1100 155

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
135.00 x 110.00 x 15.50

135.00

Part No PAB 1350 1150 160

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
135.00 x 115.00 x 16.00

135.00

Part No PAB 1350 1250 085

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
135.00 x 125.00 x 8.50

136.00

Part No PAB 1360 1260 085

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
136.00 x 126.00 x 8.50

139.70

Part No PAB 1397 1143 195

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
139.70 x 114.30 x 19.50

139.70

Part No PAB 1397 1270 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
139.70 x 127.00 x 10.00

140.00

Part No PAB 1400 1100 165

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
140.00 x 110.00 x 16.50

140.00

Part No

PAB 1400 1200 125

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 120.00 x 12.50

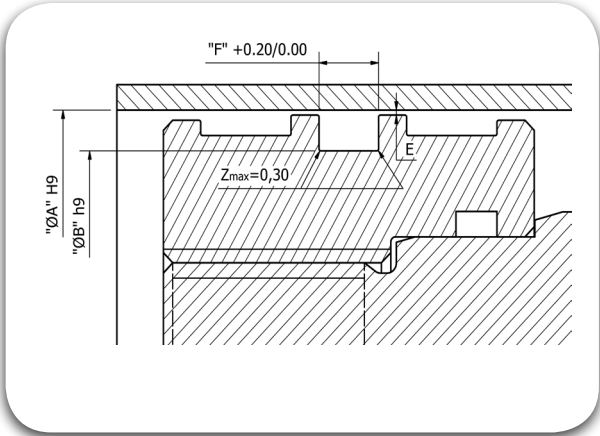
140.00

Part No

PAB 1400 1250 120

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 125.00 x 12.00



140.00

Part No

PAB 1400 1300 080

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 130.00 x 8.00

144.00

Part No

PAB 1440 1310 135

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
144.00 x 131.00 x 13.50

145.00

Part No

PAB 1450 1270 115

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
145.00 x 127.00 x 11.50

145.00

Part No

PAB 1450 1300 130

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
145.00 x 130.00 x 13.00

146.05

Part No

PAB 1460 1206 195

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
146.05 x 120.65 x 19.50

152.40

Part No

PAB 1524 1270 195

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
152.40 x 127.00 x 19.50

155.00

Part No

PAB 1550 1400 130

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
155.00 x 140.00 x 13.00

158.75

Part No

PAB 1587 1333 140

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
158.75 x 133.35 x 14.00

165.10

Part No

PAB 1651 1397 195

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
165.10 x 139.70 x 19.50

170.00

Part No

PAB 1700 1550 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
170.00 x 155.00 x 9.50

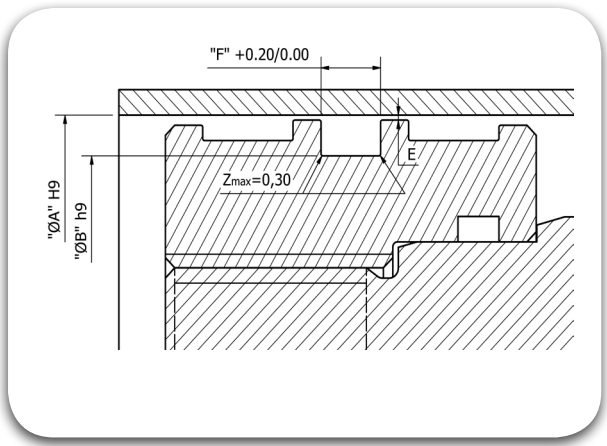
171.45

Part No

PAB 1714 1460 195

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
171.45 x 146.05 x 19.50



174.00

Part No PAB 1740 1600 115

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
174.00 x 160.00 x 11.50

177.80

Part No PAB 1778 1524 195

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
177.80 x 152.40 x 19.50

177.80

Part No PAB 1778 1651 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
177.80 x 165.10 x 10.00

178.00

Part No PAB 1780 1630 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
178.00 x 163.00 x 13.00

182.70

Part No PAB 1827 1700 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
182.70 x 170.00 x 10.00

184.10

Part No PAB 1841 1524 258

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
184.10 x 152.40 x 25.80

190.50

Part No PAB 1950 1587 258

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
190.50 x 158.75 x 25.80

195.00

Part No PAB 1950 1800 125

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
195.00 x 180.00 x 12.50

196.85

Part No PAB 1968 1651 100

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
196.85 x 165.10 x 25.80

200.00

Part No PAB 2000 1750 145

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
200.00 x 175.00 x 14.50

202.00

Part No PAB 2020 1870 115

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
202.00 x 187.00 x 11.50

203.00

Part No PAB 2030 1880 130

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
203.00 x 188.00 x 13.00

203.20

Part No PAB 2032 1714 258

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
203.20 x 171.45 x 25.80

203.20

Part No

PAB 2032 1778 227

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
203.20 x 177.80 x 22.70

208.70

Part No

PAB 2087 1960 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
208.70 x 196.00 x 9.50

215.90

Part No

PAB 2159 1841 258

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
215.90 x 184.15 x 25.80

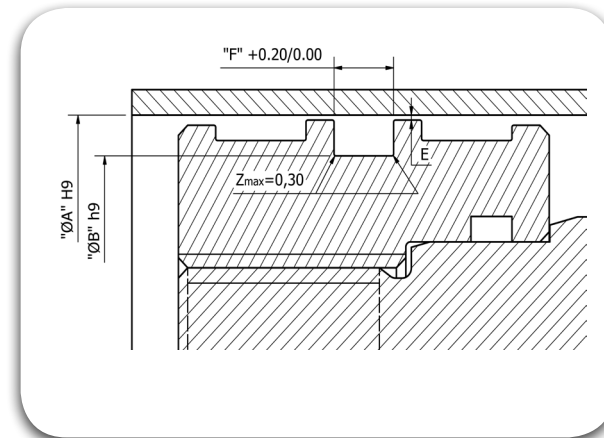
222.25

Part No

PAB 2222 1950 258

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
222.25 x 190.50 x 25.80



228.60

Part No

PAB 2286 1968 258

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
228.60 x 196.85 x 25.80

229.00

Part No

PAB 2290 2140 130

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
229.00 x 214.00 x 13.00

235.00

Part No

PAB 2350 2032 258

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
235.00 x 203.20 x 25.80

236.70

Part No

PAB 2367 2240 095

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
236.70 x 224.00 x 9.50

247.65

Part No

PAB 2476 2159 258

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
247.65 x 215.90 x 25.80

250.00

Part No

PAB 2500 2200 205

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
250.00 x 220.00 x 20.50

254.00

Part No

PAB 2540 2222 258

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
254.00 x 222.25 x 25.80

255.00

Part No

PAB 2550 2400 130

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
255.00 x 240.00 x 13.00

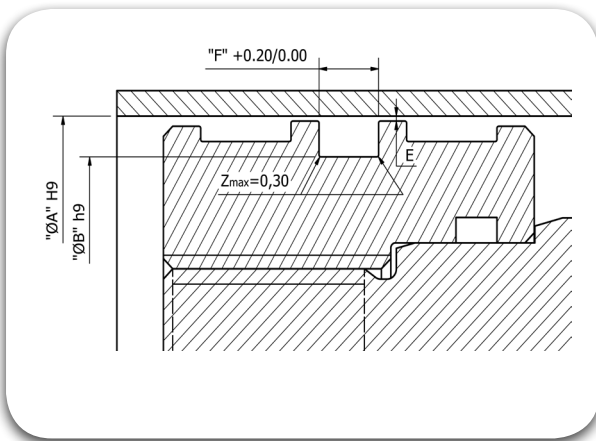
258.00

Part No

PAB 2580 2380 155

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
258.00 x 238.00 x 15.50



260.35

Part No	PAB 2603 2286 258				
Groove Dimension	ØA	x	ØB	x	F
	260.35		228.60		25.80

273.05

Part No	PAB 2730 2413 258				
Groove Dimension	ØA	x	ØB	x	F
	273.05		241.30		25.80

285.75

Part No	PAB 2857 2540 258				
Groove Dimension	ØA	x	ØB	x	F
	285.75		254.00		25.80

290.00

Part No	PAB 2900 2500 254				
Groove Dimension	ØA	x	ØB	x	F
	290.00		250.00		25.40

292.10

Part No	PAB 2921 2603 258				
Groove Dimension	ØA	x	ØB	x	F
	292.10		260.35		25.80

298.45

Part No	PAB 2984 2667 258				
Groove Dimension	ØA	x	ØB	x	F
	298.45		266.70		25.80

304.80

Part No	PAB 3048 2730 258				
Groove Dimension	ØA	x	ØB	x	F
	304.80		273.05		25.80

311.15

Part No	PAB 3111 2794 258				
Groove Dimension	ØA	x	ØB	x	F
	311.15		279.40		25.80

317.50

Part No	PAB 3175 2857 258				
Groove Dimension	ØA	x	ØB	x	F
	317.50		285.75		25.80

320.00

Part No	PAB 3200 2800 225				
Groove Dimension	ØA	x	ØB	x	F
	320.00		280.00		22.50

330.20

Part No	PAB 3302 2984 258				
Groove Dimension	ØA	x	ØB	x	F
	330.20		298.45		25.80

336.55

Part No	PAB 3365 3048 258				
Groove Dimension	ØA	x	ØB	x	F
	336.55		304.80		25.80

355.00

Part No	PAB 3550 3180 130				
Groove Dimension	ØA	x	ØB	x	F
	355.00		318.00		13.00

360.00

Part No

PAB 3600 3200 255

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
360.00 x 320.00 x 25.50

385.00

Part No

PAB 3850 3500 254

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
385.00 x 350.00 x 25.40

415.00

Part No

PAB 4150 3750 254

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
415.00 x 375.00 x 25.40

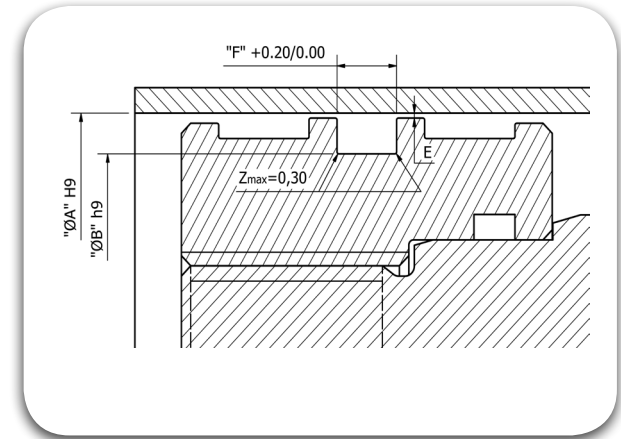
482.00

Part No

PAB 4820 4450 355

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
482.00 x 445.00 x 35.50

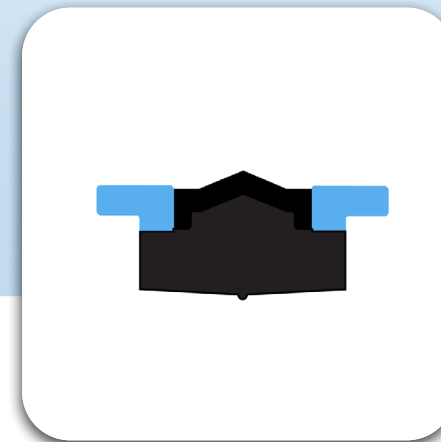




Piston Seals PPC









#SealingExcellence



Description

The PPC Compact Seal is a double acting piston seal consists of a rugged central element in TRIAFLEX[®] with fabric reinforcement, performing the main sealing function and supported by two slit Wear Rings, which positions the Piston centrally within the Cylinder bore. These wear rings limits the extrusion of the TRIAFLEX[®] Sealing Element and takes the responsibility of the radial loads and also resists the dynamic and static friction.

 Diameter Range	Ø25.00 – Ø150.00
 Standard material	Sealing element TRIAFLEX [®] (NBR compounded with cotton fabric), Energiser are TRIAMIDE [®] (POM)
 Temperature(°C)	-30°C to 130°C
 Speed	≤ 0.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based).
 Pressure	≤ 500 bar

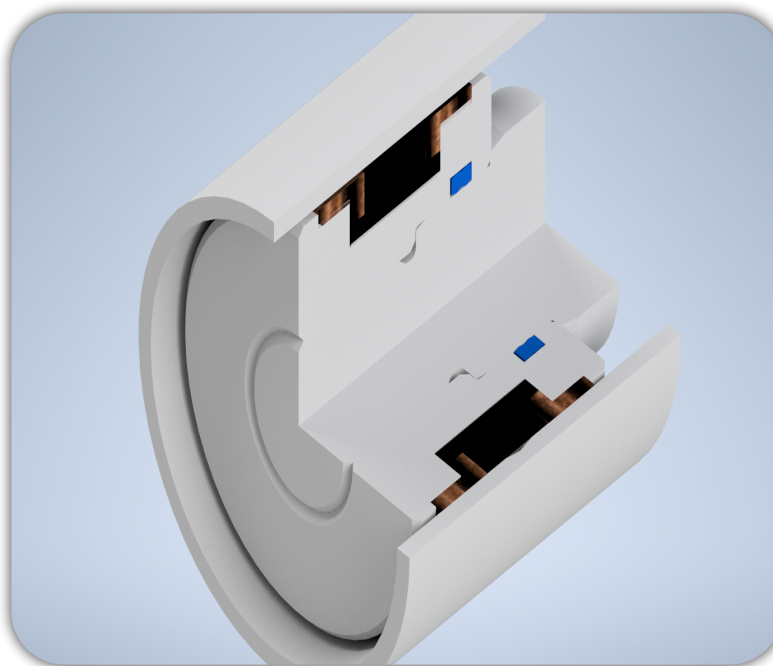
-  Reciprocating
-  Oscillating
-  Rotary
-  Helix
-  Static
-  Single Acting
-  Double Acting

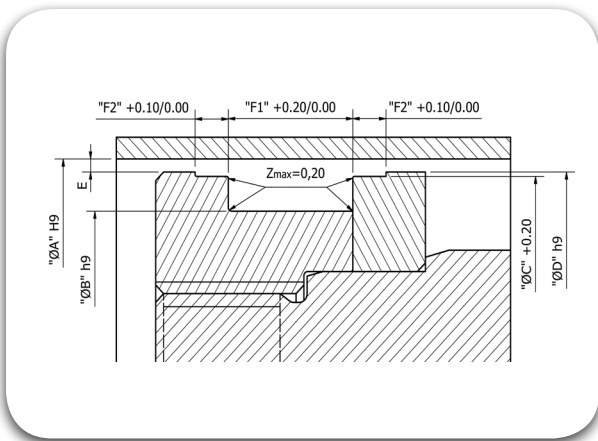
Material Details

Seal Material	Seal Material Code	Wear-Ring Material
TRIAFLEX® NBR compounded with cotton fabric	CX	TRIAMIDE® Poly-Oxy Methylene

Nomenclature

Part No	PPC	1000	0845	063	T415	N
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	Square-Ring Material	





30.00

Part No

PPC 0300 0170 154

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
30.00		17.00		15.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		26.50		29.00

35.00

Part No

PPC 0350 0220 154

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
35.00		22.00		15.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		31.40		33.70

40.00

Part No

PPC 0400 2400 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
40.00		24.00		18.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		35.40		38.70

45.00

Part No

PPC 0450 0290 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
45.00		29.00		18.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		40.40		43.70

50.00

Part No

PPC 0500 0340 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
50.00		34.00		18.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		45.40		48.70

55.00

Part No

PPC 0550 0390 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
55.00		39.00		18.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		50.40		53.70

60.00

Part No

PPC 0600 0440 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
60.00		44.00		18.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		55.40		58.70

65.00

Part No

PPC 0650 0500 184

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
65.00		50.00		18.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		60.40		63.70

70.00

Part No

PPC 0700 0500 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
70.00		50.00		22.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		64.20		68.30

75.00

Part No

PPC 0750 0550 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
75.00		55.00		22.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		69.20		73.30

80.00

Part No

PPC 0800 0600 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
80.00		60.00		22.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		74.20		78.30

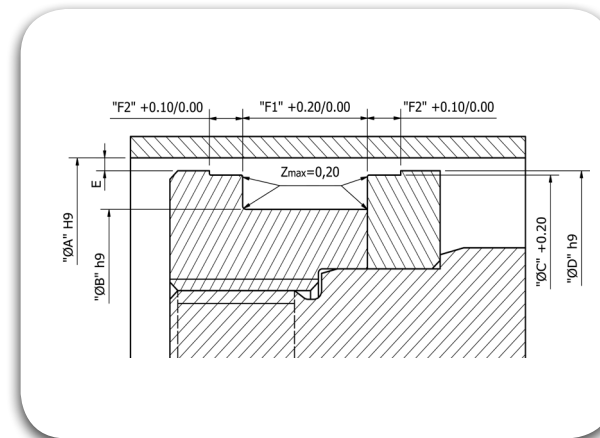
85.00

Part No

PPC 0850 0650 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
85.00		65.00		22.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		79.20		83.30



90.00

Part No

PPC 0900 0700 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
90.00		70.00		22.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		84.15		88.30

95.00

Part No

PPC 0950 0750 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
95.00		75.00		22.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		89.15		93.30

100.00

Part No

PPC 1000 0750 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
100.00		75.00		22.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		93.15		98.05

100.00

Part No

PPC 1000 0800 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
100.00		80.00		22.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		94.15		98.30

105.00

Part No

PPC 1050 0850 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
105.00		85.00		22.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		98.10		103.00

110.00

Part No

PPC 1100 0850 224

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
110.00		85.00		22.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		103.10		108.00

120.00

Part No

PPC 1200 1000 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
120.00		100.00		25.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		114.10		118.00

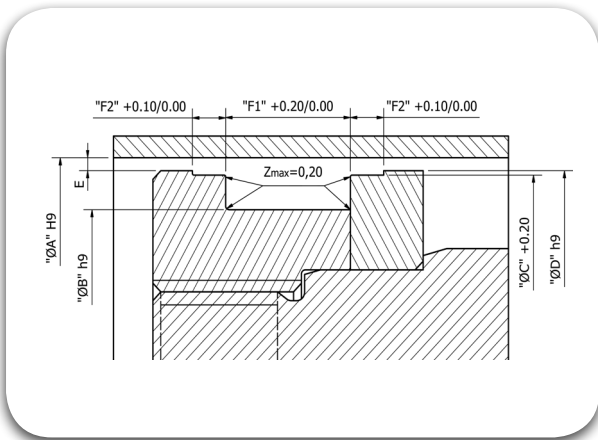
130.00

Part No

PPC 1300 1050 254

Groove Dimension

$\varnothing A$	x	$\varnothing B$	x	F1
130.00		105.00		25.40
F2	x	$\varnothing C$	x	$\varnothing D$
6.35		123.10		128.00



140.00

Part No

PPC 1400 1150 254

Groove Dimension

ØA	x	ØB	x	F1
140.00		115.00		25.40
F2	x	ØC	x	ØD
6.35		133.00		138.00

150.00

Part No

PPC 1500 1250 254

Groove Dimension

ØA	x	ØB	x	F1
150.00		125.00		25.40
F2	x	ØC	x	ØD
6.35		143.00		148.00

160.00

Part No

PPC 1600 1350 330

Groove Dimension

ØA	x	ØB	x	F1
160.00		135.00		33.00
F2	x	ØC	x	ØD
6.35		153.00		158.00



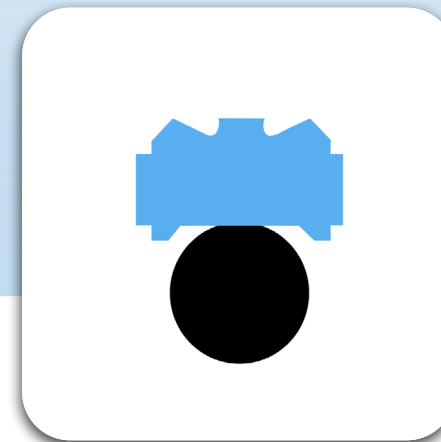
Piston Seals

PWS



TRIADA
TECHNOLOGIES







#SealingExcellence



Description

The PWS is a bidirectional seal and composed of two elements. The dynamic seal is a ring in PolyUrethane (TRIATHANE®) while the static seal is an O-Ring (TRIAFLEX®) also acting as energizer. Depending on the application, media, cycle speed etc., the PolyUrethane compound is selected and the O-Ring compound is selected considering the media compatibility, temperature etc.

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø12.00 – Ø2500.00
 Standard material	TRIATHANE® (PU) with Energiser in TRIAFLEX® (NBR 70 Shores) (Other Compounds available, so as to suit the Application Conditions).
 Temperature(°C)	-30° C to 130° C
 Speed	≤ 0.50 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air etc depending on Seal Compounds selected.
 Pressure	≤ 400 bar

Material Details

Seal Material	Seal Material Code	O-Ring Material	O-Ring Material code
TRIATHANE® PU	T479	TRIAFLEX® NBR 70 Shore	N

Groove Details

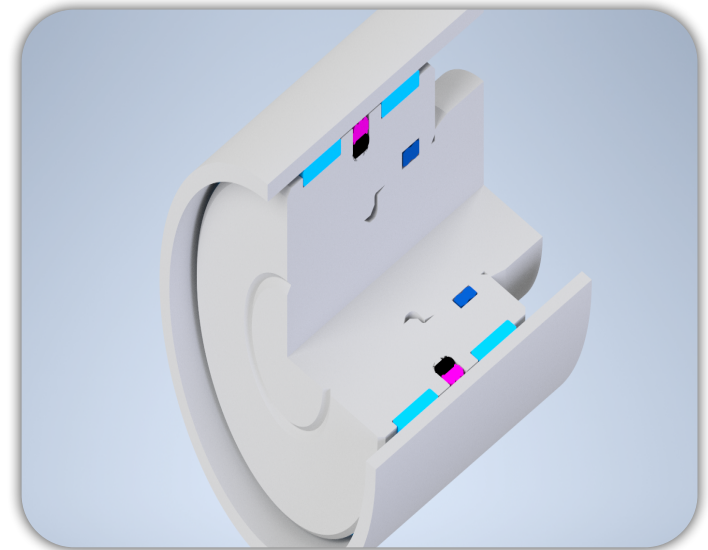
Bore Diameter "A" H9 Standard Range	Radial Clearance "E" max			
	<20 bar	<100 bar	<200 bar	<400 bar
6.00 - 13.90	0.20	0.10	0.08	0.05
14.00 - 24.90	0.25	0.15	0.10	0.07
25.00 - 45.90	0.35	0.20	0.15	0.08
46.00 - 124.90	0.50	0.25	0.20	0.10
125.00 - 999.90	0.60	0.30	0.25	0.12
1000.00 - 2700.00	0.90	0.50	0.40	0.20

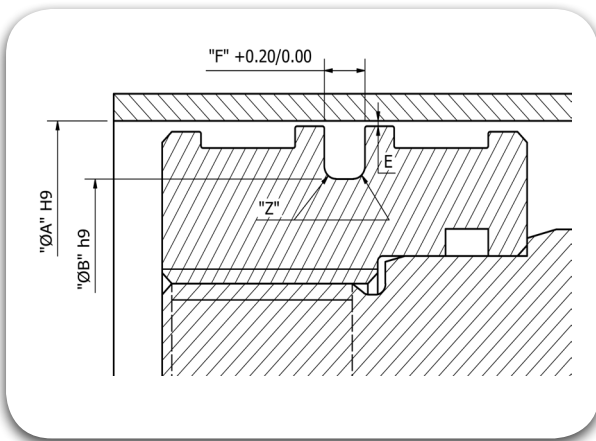
Groove Details

Groove Width	Radius "Z"
0.00 - 2.20	0.40
2.30 - 3.20	0.60
3.30 - 4.20	1.00
4.30 - 6.30	1.30
6.40 - 8.10	1.80

Nomenclature

Part No	PWS	1000	0845	063	T479	N
Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	O-Ring Material Code	





12.00

Part No PWS 0120 0071 022

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
12.00 x 7.10 x 2.20

O-Ring Size \varnothing 7.65 x \varnothing 1.78

12.00

Part No PWS 0120 0045 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
12.00 x 4.50 x 3.20

O-Ring Size \varnothing 4.42 x \varnothing 2.62

15.00

Part No PWS 0150 0075 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
15.00 x 7.50 x 3.20

O-Ring Size \varnothing 7.59 x \varnothing 2.62

16.00

Part No PWS 0160 0085 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
16.00 x 8.50 x 3.20

O-Ring Size \varnothing 7.59 x \varnothing 2.62

20.00

Part No PWS 0200 0125 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
20.00 x 12.50 x 3.20

O-Ring Size \varnothing 12.37 x \varnothing 2.62

22.00

Part No PWS 0220 0145 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
22.00 x 14.50 x 3.20

O-Ring Size \varnothing 13.94 x \varnothing 2.62

24.00

Part No PWS 0240 0165 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
24.00 x 16.50 x 3.20

O-Ring Size \varnothing 15.54 x \varnothing 2.62

25.00

Part No PWS 0250 0175 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
25.00 x 17.50 x 3.20

O-Ring Size \varnothing 17.12 x \varnothing 2.62

25.00

Part No PWS 0250 0140 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
25.00 x 14.00 x 4.20

O-Ring Size \varnothing 13.87 x \varnothing 3.53

28.00

Part No PWS 0280 0205 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
28.00 x 20.50 x 3.20

O-Ring Size \varnothing 20.29 x \varnothing 2.62

30.00

Part No PWS 0300 0225 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
30.00 x 22.50 x 3.20

O-Ring Size \varnothing 21.89 x \varnothing 2.62

32.00

Part No PWS 0320 0245 032

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
32.00 x 24.50 x 3.20

O-Ring Size \varnothing 23.47 x \varnothing 2.62

32.00

Part No PWS 0320 0210 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
32.00 x 21.00 x 4.20

O-Ring Size \varnothing 20.22 x \varnothing 3.53

34.00

Part No	PWS 0340 0265 032		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	34.00 x 26.50 x 3.20		
O-Ring Size	\varnothing 26.64 x \varnothing 2.26		

35.00

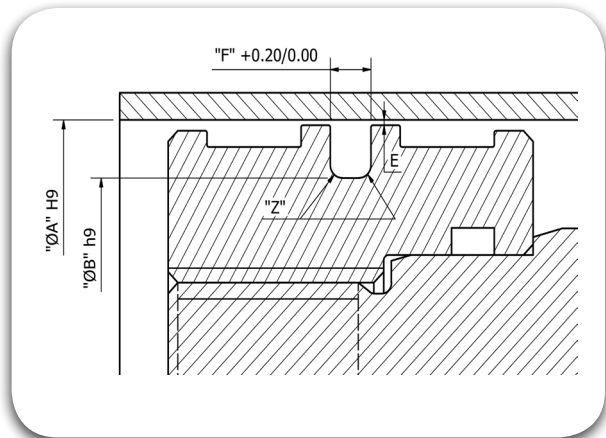
Part No	PWS 0350 0275 032		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	35.00 x 27.50 x 3.20		
O-Ring Size	\varnothing 26.64 x \varnothing 2.26		

35.00

Part No	PWS 0350 0240 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	35.00 x 24.00 x 4.20		
O-Ring Size	\varnothing 23.39 x \varnothing 3.53		

36.00

Part No	PWS 0360 0285 032		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	36.00 x 28.50 x 3.20		
O-Ring Size	\varnothing 28.24 x \varnothing 2.62		



36.00

Part No	PWS 0360 0250 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	36.00 x 25.00 x 4.20		
O-Ring Size	\varnothing 24.99 x \varnothing 3.53		

38.00

Part No	PWS 0380 0305 032		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	38.00 x 30.50 x 3.20		
O-Ring Size	\varnothing 29.82 x \varnothing 2.62		

40.00

Part No	PWS 0400 0290 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	40.00 x 29.00 x 4.20		
O-Ring Size	\varnothing 28.17 x \varnothing 3.53		

40.00

Part No	PWS 0400 0245 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	40.00 x 24.50 x 6.30		
O-Ring Size	\varnothing 23.16 x \varnothing 5.33		

42.00

Part No	PWS 0420 0310 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	42.00 x 31.00 x 4.20		
O-Ring Size	\varnothing 29.74 x \varnothing 3.53		

45.00

Part No	PWS 0450 0295 063		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	45.00 x 29.50 x 6.30		
O-Ring Size	\varnothing 29.51 x \varnothing 5.33		

45.00

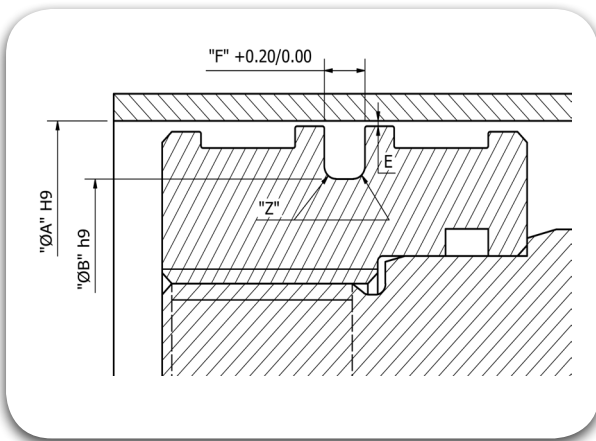
Part No	PWS 0450 0340 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	45.00 x 34.00 x 4.20		
O-Ring Size	\varnothing 32.92 x \varnothing 3.53		

48.00

Part No	PWS 0480 0370 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	48.00 x 37.00 x 4.20		
O-Ring Size	\varnothing 36.09 x \varnothing 3.53		

49.00

Part No	PWS 0490 0380 042		
Groove Dimension	$\varnothing A$ x $\varnothing B$ x F		
	49.00 x 38.00 x 4.20		
O-Ring Size	\varnothing 37.69 x \varnothing 3.53		



50.00

Part No PWS 0500 0345 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 34.50 x 6.30

O-Ring Size \varnothing 34.29 x \varnothing 5.33

50.00

Part No PWS 0500 0390 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 39.00 x 4.20

O-Ring Size \varnothing 37.69 x \varnothing 3.53

50.80

Part No PWS 0508 0398 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.80 x 39.80 x 4.20

O-Ring Size \varnothing 39.70 x \varnothing 3.53

52.00

Part No PWS 0520 0365 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
52.00 x 36.50 x 6.30

O-Ring Size \varnothing 34.29 x \varnothing 5.33

54.00

Part No PWS 0540 0430 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
54.00 x 43.00 x 4.20

O-Ring Size \varnothing 42.86 x \varnothing 3.53

55.00

Part No PWS 0550 0440 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.00 x 44.00 x 4.20

O-Ring Size \varnothing 44.04 x \varnothing 3.53

55.00

Part No PWS 0550 0395 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.00 x 39.50 x 6.30

O-Ring Size \varnothing 37.47 x \varnothing 5.33

56.00

Part No PWS 0560 0450 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
56.00 x 45.00 x 4.20

O-Ring Size \varnothing 44.45 x \varnothing 3.53

57.00

Part No PWS 0570 0460 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
57.00 x 46.00 x 4.20

O-Ring Size \varnothing 46.04 x \varnothing 3.53

60.00

Part No PWS 0600 0445 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
60.00 x 44.50 x 6.30

O-Ring Size \varnothing 43.82 x \varnothing 5.33

60.00

Part No PWS 0600 0490 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
60.00 x 49.00 x 4.20

O-Ring Size \varnothing 47.22 x \varnothing 3.53

63.00

Part No PWS 0630 0520 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.00 x 52.00 x 4.20

O-Ring Size \varnothing 50.39 x \varnothing 3.53

63.00

Part No PWS 0630 0475 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.00 x 47.50 x 6.30

O-Ring Size \varnothing 46.99 x \varnothing 5.33

63.50

Part No PWS 0635 0525 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
63.50 x 52.50 x 4.20

O-Ring Size \varnothing 50.39 x $\varnothing S$ 3.53

65.00

Part No PWS 0650 0540 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
65.00 x 54.00 x 4.20

O-Ring Size \varnothing 53.57 x $\varnothing S$ 3.53

65.00

Part No PWS 0650 0490 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
65.00 x 49.00 x 6.30

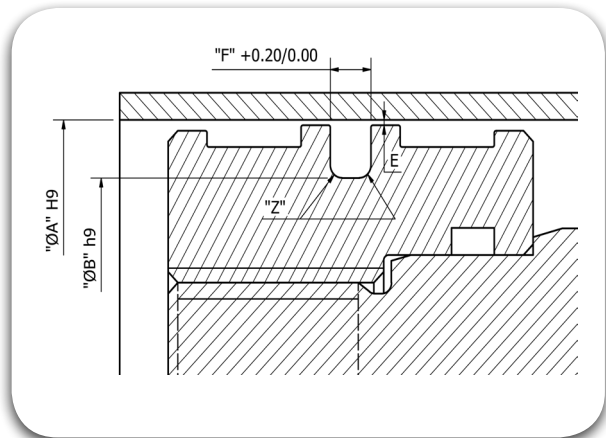
O-Ring Size \varnothing 46.99 x $\varnothing S$ 5.33

70.00

Part No PWS 0700 0590 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
70.00 x 59.00 x 4.20

O-Ring Size \varnothing 58.74 x $\varnothing S$ 3.53



70.00

Part No PWS 0700 0545 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
70.00 x 54.50 x 6.30

O-Ring Size \varnothing 53.34 x $\varnothing S$ 5.33

72.00

Part No PWS 0720 0610 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
72.00 x 61.00 x 4.20

O-Ring Size \varnothing 60.32 x $\varnothing S$ 3.53

74.00

Part No PWS 0740 0585 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
74.00 x 58.50 x 6.30

O-Ring Size \varnothing 56.52 x $\varnothing S$ 5.33

75.00

Part No PWS 0750 0640 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 64.00 x 4.20

O-Ring Size \varnothing 63.09 x $\varnothing S$ 3.53

75.00

Part No PWS 0750 0595 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
75.00 x 59.50 x 6.30

O-Ring Size \varnothing 59.69 x $\varnothing S$ 5.33

76.20

Part No PWS 0762 0652 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
76.20 x 65.20 x 4.20

O-Ring Size \varnothing 63.09 x $\varnothing S$ 3.53

80.00

Part No PWS 0800 0690 042

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 69.00 x 4.20

O-Ring Size \varnothing 68.26 x $\varnothing S$ 3.53

80.00

Part No PWS 0800 0645 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
80.00 x 64.50 x 6.30

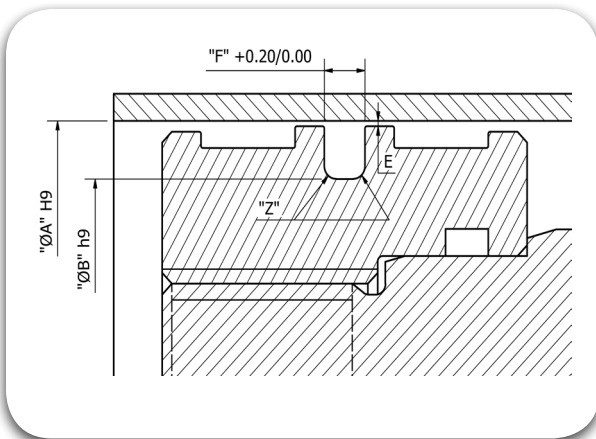
O-Ring Size \varnothing 62.87 x $\varnothing S$ 5.33

82.55

Part No PWS 0825 0675 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
82.55 x 67.50 x 6.30

O-Ring Size \varnothing 66.04 x $\varnothing S$ 5.33



85.00

Part No PWS 0850 0695 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
85.00 x 69.50 x 6.30

O-Ring Size \varnothing 69.22 x \varnothing 5.33

88.90

Part No PWS 0889 0734 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
88.90 x 73.40 x 6.30

O-Ring Size \varnothing 72.39 x \varnothing 5.33

90.00

Part No PWS 0900 0745 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
90.00 x 74.50 x 6.30

O-Ring Size \varnothing 72.39 x \varnothing 5.33

95.00

Part No PWS 0950 0795 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
95.00 x 79.50 x 6.30

O-Ring Size \varnothing 78.74 x \varnothing 5.33

100.00

Part No PWS 1000 0845 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
100.00 x 84.50 x 6.30

O-Ring Size \varnothing 81.92 x \varnothing 5.33

101.60

Part No PWS 1016 0861 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
101.60 x 86.10 x 6.30

O-Ring Size \varnothing 85.09 x \varnothing 5.33

105.00

Part No PWS 1050 0895 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
105.00 x 89.50 x 6.30

O-Ring Size \varnothing 88.27 x \varnothing 5.33

110.00

Part No PWS 1100 0945 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
110.00 x 94.50 x 6.30

O-Ring Size \varnothing 94.62 x \varnothing 5.33

115.00

Part No PWS 1150 0995 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
115.00 x 99.50 x 6.30

O-Ring Size \varnothing 97.79 x \varnothing 5.33

115.00

Part No PWS 1150 0940 081

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
115.00 x 94.00 x 8.10

O-Ring Size \varnothing 94.00 x \varnothing 7.00

118.00

Part No PWS 1180 1025 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
118.00 x 102.50 x 6.30

O-Ring Size \varnothing 100.97 x \varnothing 5.33

120.00

Part No PWS 1200 1045 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
120.00 x 104.50 x 6.30

O-Ring Size \varnothing 104.14 x \varnothing 5.33

125.00

Part No PWS 1250 1095 063

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
125.00 x 109.50 x 6.30

O-Ring Size \varnothing 107.32 x \varnothing 5.33

125.00

Part No

PWS 1250 1040 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
125.00 x 104.00 x 8.10

O-Ring Size

\varnothing x C/S
101.00 x 7.00

127.00

Part No

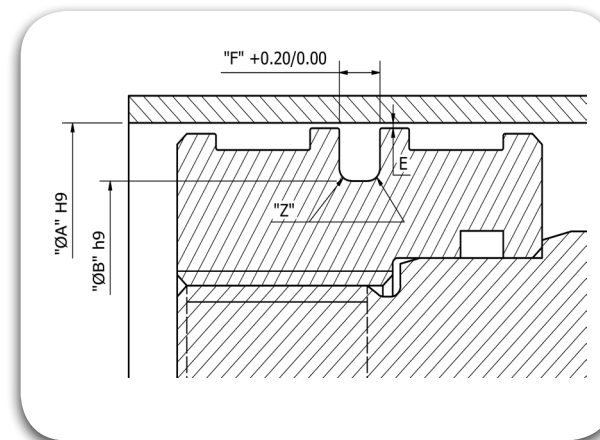
PWS 1270 1115 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
127.00 x 111.50 x 6.30

O-Ring Size

\varnothing x C/S
110.49 x 5.33



130.00

Part No

PWS 1300 1145 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 114.50 x 6.30

O-Ring Size

\varnothing x C/S
113.67 x 5.33

130.00

Part No

PWS 1300 1090 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 109.00 x 8.10

O-Ring Size

\varnothing x C/S
106.00 x 7.00

135.00

Part No

PWS 1350 1195 063

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
135.00 x 119.50 x 6.30

O-Ring Size

\varnothing x C/S
120.02 x 5.33

135.00

Part No

PWS 1350 1140 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
135.00 x 114.00 x 8.10

O-Ring Size

\varnothing x C/S
113.67 x 7.00

140.00

Part No

PWS 1400 1190 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 119.00 x 8.10

O-Ring Size

\varnothing x C/S
116.84 x 7.00

145.00

Part No

PWS 1450 1240 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
145.00 x 124.00 x 8.10

O-Ring Size

\varnothing x C/S
123.19 x 7.00

150.00

Part No

PWS 1500 1290 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
150.00 x 129.00 x 8.10

O-Ring Size

\varnothing x C/S
129.54 x 7.00

152.40

Part No

PWS 1524 1314 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
152.40 x 131.40 x 8.10

O-Ring Size

\varnothing x C/S
129.54 x 7.00

160.00

Part No

PWS 1600 1390 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
160.00 x 139.00 x 8.10

O-Ring Size

\varnothing x C/S
139.07 x 7.00

170.00

Part No

PWS 1700 1490 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
170.00 x 149.00 x 8.10

O-Ring Size

\varnothing x C/S
148.59 x 7.00

177.80

Part No

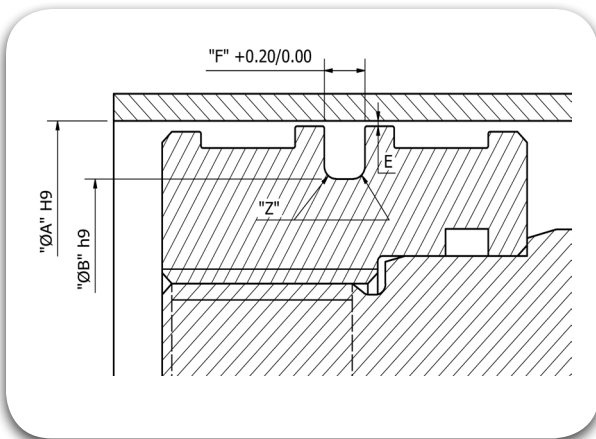
PWS 1778 1568 081

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
177.80 x 156.80 x 8.10

O-Ring Size

\varnothing x C/S
155.60 x 7.00



180.00

Part No	PWS 1800 1590 081				
Groove Dimension	$\text{Ø}A$	\times	$\text{Ø}B$	\times	F
	180.00		159.00		8.10
O-Ring Size	Ø	\times	CS		
	158.12		7.00		

185.00

Part No	PWS 1850 1640 081				
Groove Dimension	$\text{Ø}A$	\times	$\text{Ø}B$	\times	F
	185.00		164.00		8.10
O-Ring Size	Ø	\times	CS		
	183.52		7.00		

190.00

Part No	PWS 1900 1690 081				
Groove Dimension	$\text{Ø}A$	\times	$\text{Ø}B$	\times	F
	190.00		169.00		8.10
O-Ring Size	Ø	\times	CS		
	164.47		7.00		

200.00

Part No	PWS 2000 1790 081				
Groove Dimension	$\text{Ø}A$	\times	$\text{Ø}B$	\times	F
	200.00		179.00		8.10
O-Ring Size	Ø	\times	CS		
	177.17		7.00		

203.20

Part No	PWS 2032 1822 081				
Groove Dimension	$\text{Ø}A$	\times	$\text{Ø}B$	\times	F
	203.20		182.20		8.10
O-Ring Size	Ø	\times	CS		
	181.00		7.00		

210.00

Part No	PWS 2100 1890 081				
Groove Dimension	$\text{Ø}A$	\times	$\text{Ø}B$	\times	F
	210.00		189.00		8.10
O-Ring Size	Ø	\times	CS		
	189.87		7.00		

220.00

Part No	PWS 2200 1990 081				
Groove Dimension	$\text{Ø}A$	\times	$\text{Ø}B$	\times	F
	220.00		199.00		8.10
O-Ring Size	Ø	\times	CS		
	196.22		7.00		

230.00

Part No	PWS 2300 2090 081				
Groove Dimension	$\text{Ø}A$	\times	$\text{Ø}B$	\times	F
	230.00		209.00		8.10
O-Ring Size	Ø	\times	CS		
	202.57		7.00		

240.00

Part No	PWS 2400 2190 081				
Groove Dimension	$\text{Ø}A$	\times	$\text{Ø}B$	\times	F
	240.00		219.00		8.10
O-Ring Size	Ø	\times	CS		
	215.27		7.00		

250.00

Part No	PWS 2500 2290 081				
Groove Dimension	$\text{Ø}A$	\times	$\text{Ø}B$	\times	F
	250.00		229.00		8.10
O-Ring Size	Ø	\times	CS		
	227.97		7.00		

300.00

Part No	PWS 3000 2790 081				
Groove Dimension	$\text{Ø}A$	\times	$\text{Ø}B$	\times	F
	300.00		279.00		8.10
O-Ring Size	Ø	\times	CS		
	278.77		7.00		

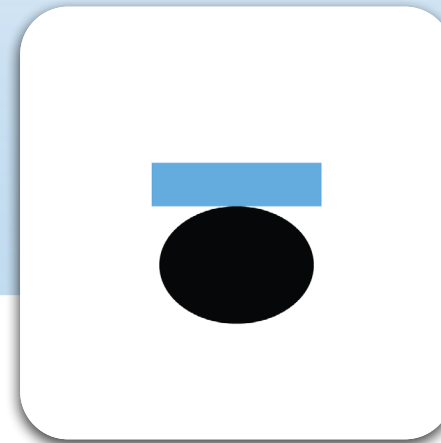


Piston Seals

PTS









#SealingExcellence



Description

The PTS Seal is a bidirectional seal and composed of two elements. The dynamic seal is a ring in filled PTFE (TRIALON®) while the static seal is an O-Ring (TRIAFLEX®) also acting as energizer. Depending on the application, media, cycle speed etc., the PTFE compound is selected and the O-Ring compound is selected considering the media compatibility, temperature etc. PTS is particularly suitable for double acting pneumatic piston e.g. in control cylinders, servo assisted equipment and in quick acting cylinders

- 
Reciprocating
- 
Oscillating
- 
Rotary
- 
Helix
- 
Static
- 
Single Acting
- 
Double Acting

 Diameter Range	Ø7.00 – Ø1000.00
 Standard material	Bronze-filled PTFE (TRIALON® 415) is the standard compound for the Sealing Element with the Energizer in NBR (Nitrile Butadiene Rubber) 70Shore A.
 Temperature(°C)	- 30°C to 130°C
 Speed	< 15.00 m/s
 Fluids	Hydraulic fluids (Mineral Oil based), Water, Air etc depending on Seal Compounds selected.
 Pressure	< 350 bar

Material Details

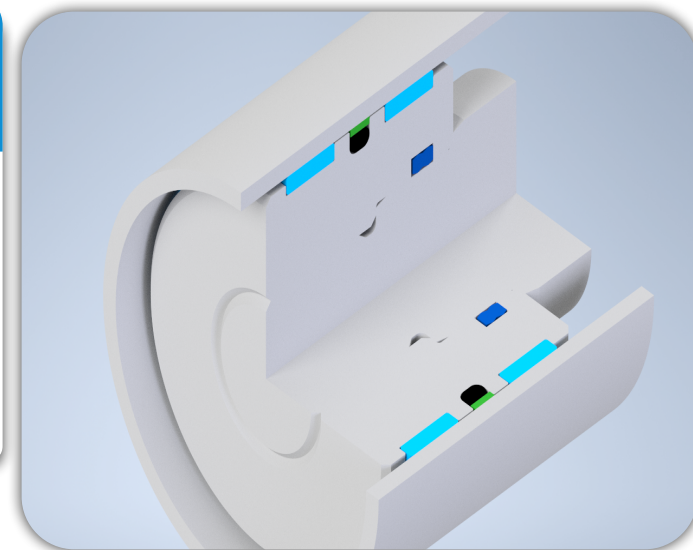
Seal Material	Seal Material Code	O-Ring Material	O-Ring Material / Code
TRIALON® Bronze Filled PTFE	T415	TRIAFLEX® NBR 70	N (T571)
TRIALON® Carbon Filled PTFE	T417	TRIAFLEX® FKM 75	F (T675)

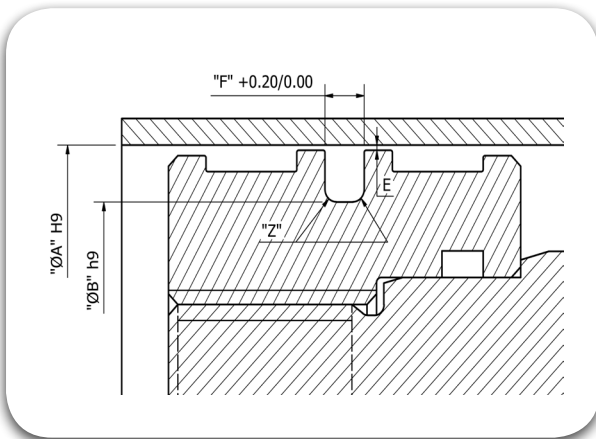
Nomenclature

Part No	PTS	1000	0015	056	T415	N
	Seal profile	Bore Dia x 10	Groove Dia x 10	Groove Width x 10	Seal Material Code	O-Ring Material Code

Groove Details

Bore Diameter "A" H9 Standard Range	Radius "Z" max	Radial Clearance "E" max			
		<20 bar	<100 bar	<200 bar	<400 bar
5.00 - 13.90	0.40	0.10	0.10	0.08	0.05
14.00 - 24.90	0.40	0.15	0.15	0.10	0.07
25.00 - 45.90	0.60	0.25	0.20	0.15	0.08
46.00 - 124.90	0.80	0.35	0.25	0.20	0.10
125.00 - 1000.00	1.00	0.60	0.40	0.30	0.20





7.00

Part No PTS 0070 0030 020

Groove Dimension ØA x ØB x F
7.00 x 3.00 x 2.00

O-Ring Size Ø 2.90 x CS 1.78

8.00

Part No PTS 0080 0040 020

Groove Dimension ØA x ØB x F
8.00 x 4.00 x 2.00

O-Ring Size Ø 3.58 x CS 1.78

9.00

Part No PTS 0090 0050 020

Groove Dimension ØA x ØB x F
9.00 x 5.00 x 2.00

O-Ring Size Ø 4.47 x CS 1.78

10.00

Part No PTS 0100 0060 020

Groove Dimension ØA x ØB x F
10.00 x 6.00 x 2.00

O-Ring Size Ø 6.07 x CS 1.78

11.00

Part No PTS 0110 0070 020

Groove Dimension ØA x ØB x F
11.00 x 7.00 x 2.00

O-Ring Size Ø 6.07 x CS 1.78

12.00

Part No PTS 0120 0080 020

Groove Dimension ØA x ØB x F
12.00 x 8.00 x 2.00

O-Ring Size Ø 7.65 x CS 1.78

14.00

Part No PTS 0140 0100 020

Groove Dimension ØA x ØB x F
14.00 x 10.00 x 2.00

O-Ring Size Ø 9.25 x CS 1.78

16.00

Part No PTS 0160 0100 028

Groove Dimension ØA x ØB x F
16.00 x 10.00 x 2.85

O-Ring Size Ø 9.19 x CS 2.62

18.00

Part No PTS 0180 0120 028

Groove Dimension ØA x ØB x F
18.00 x 12.00 x 2.85

O-Ring Size Ø 12.37 x CS 2.62

19.00

Part No PTS 0190 0130 028

Groove Dimension ØA x ØB x F
19.00 x 13.00 x 2.85

O-Ring Size Ø 12.37 x CS 2.62

20.00

Part No PTS 0200 0140 028

Groove Dimension ØA x ØB x F
20.00 x 14.00 x 2.85

O-Ring Size Ø 13.94 x CS 2.62

22.00

Part No PTS 0220 0160 028

Groove Dimension ØA x ØB x F
22.00 x 16.00 x 2.85

O-Ring Size Ø 15.54 x CS 2.62

25.00

Part No PTS 0250 0190 028

Groove Dimension ØA x ØB x F
25.00 x 19.00 x 2.85

O-Ring Size Ø 18.72 x CS 2.62

28.00

Part No PTS 0280 0205 038

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
28.00 x 20.50 x 3.80

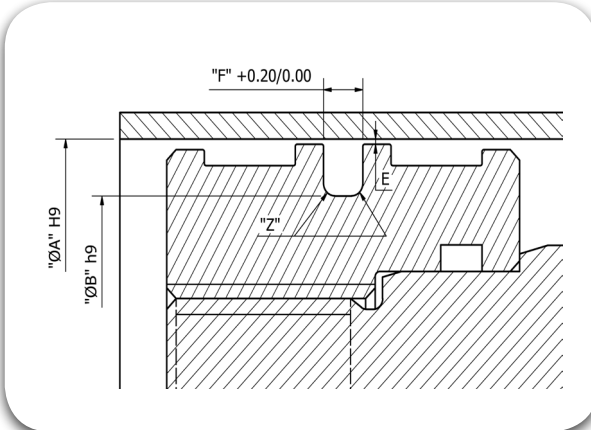
O-Ring Size \varnothing 20.22 x $\frac{C/S}{3.53}$

30.00

Part No PTS 0300 0225 038

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
30.00 x 22.50 x 3.80

O-Ring Size \varnothing 21.82 x $\frac{C/S}{3.53}$



32.00

Part No PTS 0320 0245 038

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
32.00 x 24.50 x 3.80

O-Ring Size \varnothing 24.99 x $\frac{C/S}{3.53}$

35.00

Part No PTS 0350 0275 038

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
35.00 x 27.50 x 3.80

O-Ring Size \varnothing 26.57 x $\frac{C/S}{3.53}$

36.00

Part No PTS 0360 0285 038

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
36.00 x 28.50 x 3.80

O-Ring Size \varnothing 28.17 x $\frac{C/S}{3.53}$

38.00

Part No PTS 0380 0305 038

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
38.00 x 30.50 x 3.80

O-Ring Size \varnothing 29.74 x $\frac{C/S}{3.53}$

40.00

Part No PTS 0400 0325 038

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
40.00 x 32.50 x 3.80

O-Ring Size \varnothing 32.92 x $\frac{C/S}{3.53}$

42.00

Part No PTS 0420 0345 038

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
42.00 x 34.50 x 3.80

O-Ring Size \varnothing 34.52 x $\frac{C/S}{3.53}$

45.00

Part No PTS 0450 0375 038

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
45.00 x 37.50 x 3.80

O-Ring Size \varnothing 37.69 x $\frac{C/S}{3.53}$

48.00

Part No PTS 0480 0405 038

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
48.00 x 40.50 x 3.80

O-Ring Size \varnothing 40.87 x $\frac{C/S}{3.53}$

50.00

Part No PTS 0500 0375 056

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
50.00 x 37.50 x 5.60

O-Ring Size \varnothing 37.47 x $\frac{C/S}{5.33}$

55.00

Part No PTS 0550 0425 056

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
55.00 x 42.50 x 5.60

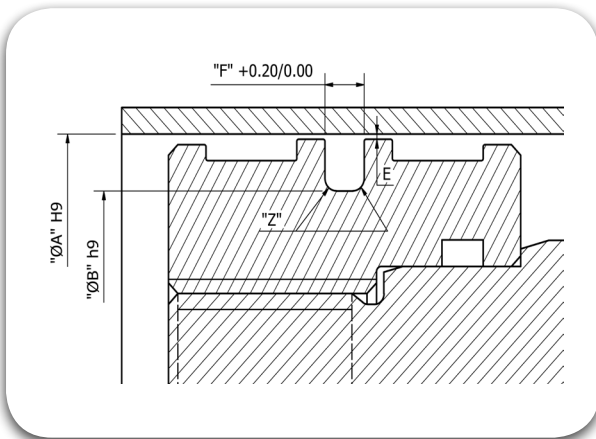
O-Ring Size \varnothing 40.64 x $\frac{C/S}{5.33}$

60.00

Part No PTS 0600 0475 056

Groove Dimension $\varnothing A$ x $\varnothing B$ x F
60.00 x 47.50 x 5.60

O-Ring Size \varnothing 46.99 x $\frac{C/S}{5.33}$



63.00

Part No PTS 0630 0505 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
63.00 x 50.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
50.17 x 5.33

65.00

Part No PTS 0650 0525 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
65.00 x 52.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
50.17 x 5.33

70.00

Part No PTS 0700 0575 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
70.00 x 57.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
56.52 x 5.33

74.00

Part No PTS 0740 0615 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
74.00 x 61.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
59.69 x 5.33

75.00

Part No PTS 0750 0625 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
75.00 x 62.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
62.87 x 5.33

80.00

Part No PTS 0800 0675 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
80.00 x 67.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
66.04 x 5.33

85.00

Part No PTS 0850 0725 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
85.00 x 72.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
72.39 x 5.33

90.00

Part No PTS 0900 0775 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
90.00 x 77.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
75.57 x 5.33

92.00

Part No PTS 0920 0795 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
92.00 x 79.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
78.74 x 5.33

100.00

Part No PTS 1000 0875 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
100.00 x 87.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
85.09 x 5.33

105.00

Part No PTS 1050 0925 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
105.00 x 92.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
91.44 x 5.33

110.00

Part No PTS 1100 0975 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
110.00 x 97.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
97.79 x 5.33

115.00

Part No PTS 1150 1025 056

Groove Dimension $\text{Ø}A \times \text{Ø}B \times F$
115.00 x 102.50 x 5.60

O-Ring Size $\text{Ø} \times \text{CS}$
100.97 x 5.33

120.00

Part No

PTS 1200 1075 056

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
120.00 x 107.50 x 5.60

O-Ring Size

\varnothing x $\varnothing S$
107.32 x 5.33

125.00

Part No

PTS 1250 1125 056

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
125.00 x 112.50 x 5.60

O-Ring Size

\varnothing x $\varnothing S$
110.49 x 5.33

130.00

Part No

PTS 1300 1150 075

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
130.00 x 115.00 x 7.55

O-Ring Size

\varnothing x $\varnothing S$
113.49 x 7.00

140.00

Part No

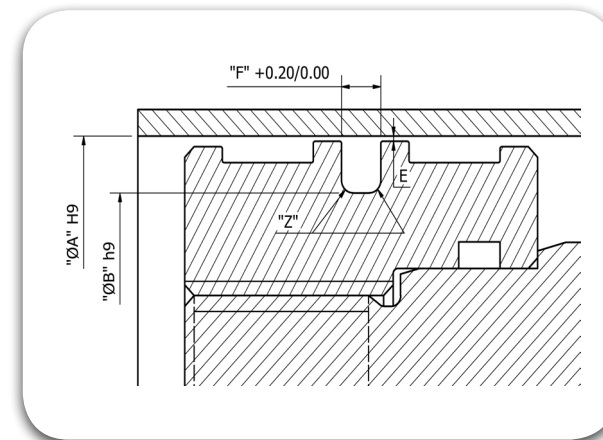
PTS 1400 1250 075

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
140.00 x 125.00 x 7.55

O-Ring Size

\varnothing x $\varnothing S$
123.19 x 7.00



150.00

Part No

PTS 1500 1350 075

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
150.00 x 135.00 x 7.55

O-Ring Size

\varnothing x $\varnothing S$
132.72 x 7.00

160.00

Part No

PTS 1600 1450 075

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
160.00 x 145.00 x 7.55

O-Ring Size

\varnothing x $\varnothing S$
142.24 x 7.00

200.00

Part No

PTS 2000 1820 075

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
200.00 x 182.00 x 7.55

O-Ring Size

\varnothing x $\varnothing S$
177.17 x 7.00

220.00

Part No

PTS 2200 2020 075

Groove Dimension

$\varnothing A$ x $\varnothing B$ x F
220.00 x 202.00 x 7.55

O-Ring Size

\varnothing x $\varnothing S$
196.22 x 7.00

Storage Guidelines

Storage life is the maximum period of time, clocked from the date of manufacture, that an elastomeric component, packed appropriately, may be stored under specific condition, beyond which it is regarded as unserviceable, for the intended purpose it was originally manufactured. The cure date shall be taken as the basis for the thermo-set elastomers and for thermoplastic elastomers, the date of manufacturing of the finished product shall be the basis. Shelf life or storage life shall be different for each compound, even when they are stored under specified conditions. Mostly, longer storage periods are considered for the 10 or 20-year categories of compounds, provided the components are appropriately stored and recommended periodic checks are performed. In general, Polyethylene (PE) bags (UV protected shall be an added advantage) stored in cardboard boxes or PE lined kraft paper bags can insure a decent storage life.

Over the years, the advancements in compounding techniques have helped in improving the storage life of relatively age-sensitive elastomers, even in normal warehousing atmosphere. It has been clearly demonstrated and evident that the storage conditions is the single most critical aspect in determining the useful life of elastomer products, than is the time.

Following parameters/criteria shall assist in ensuring a proper storage condition, which are extracted from ISO 2230:2002 and may be referred for all applications other than related to Aerospace/Military. For Aerospace/ Military, one may refer to SAE-ARP 5361 and MIL-HDBK-695C, for the storage conditions.

Temperature

Preferred storage temperature is below 25°C, away from direct sources of heat. As a thumb rule, it can be stated that a storage temperature 10°C higher than the specified 25°C, can reduce the storage life by at; out 50% and similarly, a storage temperature lower by 10°C from the suggested 25°C, can increase the storage life by about 100%. In case the storage temperature has been lower than 15°C, there is a risk of distortion due to handling of possible stiffened products and in these cases, it is suggested to warm the products, may be to about 30°C or so.

Humidity

Relative humidity of the storage atmosphere should be less 70% in case of elastomers and less than 65%, in case of Polyurethanes. RH should be such that, given in the variations of storage temperatures, condensation should not occur.

Light

Elastomeric Seals should be protected from light sources, in particular direct sunlight or intense artificial light having an ultraviolet content. The individual storage bags offer the best protection as long as they are UV resistant. (Note: It is advisable that the windows of storage rooms where elastomers are stored in bulk be covered with a red or orange coating).

Radiation

Precautions shall be taken to protect stored articles from all sources of ionizing radiation likely to cause damage to stored articles.

Storage Guidelines

Ozone

As Ozone is particularly damaging to certain elastomeric seals, storage rooms shall not contain any equipment that is capable of generating ozone such as mercury vapor lamps, high voltage electrical equipment giving rise to electric sparks or silent electrical discharges.

Combustion gases and organic vapor shall be excluded from storage rooms as they may give rise to ozone via photochemical processes. bond to such an extent that the seal

Deformation

Elastomeric seals shall be stored free from superimposed tensile and compressive stresses or any other causes of deformation. Where articles are stored in strain-free condition, they shall be stored in their original packaging. O-Rings of large inside diameter shall be formed into at least three superimposed loops so as to avoid creasing or twisting. (Note: It is not possible to achieve this condition by forming just two loops, three are minimum required)

Contact with Liquid & Semi-Solid Materials

Certain Metals and their Alloys (in particular Copper, Manganese & Iron) are known to have deleterious effects on elastomers. Elastomeric Seals shall not be stored in contact with such metals (except when bonded to them), but shall be protected by individual packaging.

Contact with Dusting Powder

Dusting Powder shall be used only for packaging of elastomeric seals in order to prevent blocking or sticking. In such instances, the minimum quantity of powder to prevent adhesion shall be used.

Contact between different Elastomers

Contact between different elastomers and elastomers of different seals shall be avoided.

Elastomeric Seals bonded to Metal Parts

The metal parts of bonded seals shall not come in contact with the elastomeric element of another seal. Any presentative used on the metal shall be such that it will not affect the elastomeric element or the bond to such an extent that the seal will not comply with the product specification.

Stock Rotation

Elastomeric Seal stock shall be rotated in FIFO (First In First Out) method.

Storage Guidelines

Initial and Extension Storage Periods for Unassembled components following ISO 2230

Abbreviation	Chemical Name from ISO 1629	Common Name
<u>GROUP A - Initial Storage Period 5 Years, Extension Storage Period 2 Years</u>		
BR	Butadiene Rubber	Polybutadiene
NR	Isoprene Rubber, Natural	Natural Rubber
IR	Isoprene Rubber, Synthetic	Polyisoprene
SBR	Styrene-Butadiene Rubber	SBR
AU	Polyester Urethane Rubber	Polyurethane
EU	Polyether Urethane Rubber	Polyurethane
<u>GROUP B - Initial Storage Period 7 Years, Extension Storage Period 3 Years</u>		
NBR	Acrylonitrile-Butadiene Rubber	Nitrile
XNBR	Carboxylic-Acrylonitrile-Butadiene Rubber	Carboxylated Rubber
HNBR	Hydrogenated NBR (with some unsaturation)	Hydrogenated Nitrile
CO, ECO	Polychloromethyloxiran and Copolymer	Epichlorohydrin
ACM	Copolymer of Ethylacrylate and small amount of Monomer	Acrylic
CR	Chloroprene Rubber	Neoprene
IIR	Isobutene-Isoprene Rubber	Butyl
BIIR	Bromo-Isobutene-Isoprene Rubber	Bromobutyl
CIIR	Chloro-Isobutene-Isoprene Rubber	Chlorobutyl
<u>GROUP C - Initial Storage Period 10 Years, Extension Storage Period 5 Years</u>		
CSM	Chlorosulfonylpolyethylene	Chlorosulfonated Polyethylene
EPDM	Terpolymer of Ethylene, Propylene and Diene (Residual Unsaturated Portion)	EPDM
FKM	Rubber having Fluoro, Perfluoroalkyl or Perfluoroalkoxy Substituent Groups	Fluorocarbon
VMQ	Silicone Rubber having both Methyl and Vinyl Substituent Group	Silicone
<u>GROUP D - Storage Period is Unlimited</u>		
PTFE	Polytetrafluoroethylene	Teflon

Technical Proposal Request

Email: sales@triada.co.in

Note: Only information provided in this TPR will be considered for the recommended solution

Prepared By: _____
 Date Prepared: _____
 Answers Required By: _____

Application Engr: _____
 Sales Engr: _____
 Inside Sales: _____

TTIPL TPR _____
 Cust. _____

CUSTOMER DETAILS

Customer No _____
 Cust. Seg. Code _____

Name _____
 Address _____

Contact _____
 Phone _____
 Mobile _____
 Email _____

APPLICATION DESCRIPTION

Equipment: _____
 Component: _____
 Problem (if any): _____
 Current Seal: _____

System Type
 Rod
 Piston
 System (rod+piston)
 Shaft
 Face

Product
 Seal
 Wiper
 Bearing
 Other

Motion
 Static
 Reciprocating
 Rotary
 Oscillatory

Pressure
 Unidirectional
 Bi-directional
 Pulsating
 Without Pressure

New Design

Demand/Year: _____ Price: _____ @ _____ Pcs.
 Quote Qty: _____ Target _____ @ _____ Pcs.

OPERATING CONDITIONS

	Units	Minimum	Operating	Maximum
Media to Seal:	Temperature	_____	_____	_____
	Pressure	_____	_____	_____
Other Media:	V acuum	_____	_____	_____
	Stroke	_____	_____	_____
Contamination:	Cycle-Rate	_____	_____	_____
	Angle of Rotation	_____	_____	_____
	RPM	_____	_____	_____
	V elocity	_____	_____	_____
	Side Load	_____	_____	_____

PERFORMANCE PRIORITY

Most critical: _____

Planning Test? Yes No

Units	Value	Units	Breakout	Dynamic
Expected Life: _____	_____	Friction: _____	_____	_____
Max Leakage: _____	_____	Torque: _____	_____	_____

HARDWARE

Units Inch Metric
Nominal Tolerance Change

Type Split Open Solid Stepped Recommend
Material Finish Hardness Coating/Treatment

Rod Diameter:			<input type="checkbox"/>
Bore Diameter:			<input type="checkbox"/>
Rod Bore:			<input type="checkbox"/>
Piston Diameter:			<input type="checkbox"/>
Gland/Groove Width:			<input type="checkbox"/>
Gland Depth:			<input type="checkbox"/>
Groove Diameter:			<input type="checkbox"/>
Extrusion Gap:			<input type="checkbox"/>
Runout (TIR):			<input type="checkbox"/>
Step Height:			<input type="checkbox"/>
Bearing length:			<input type="checkbox"/>

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Notes:

Solution Proposed to Customer by TTIPL:

MIL-G-5514 Dash: _____ AS 4716 Dash: _____ B/U Width: _____

Required: Installation Dwg Inspection Dwg Quote
 Other _____

Prototype Qty: _____
Production Qty: _____
Date Proto's _____

SPECIFICATIONS

Automatic installation? Explain details	No <input type="checkbox"/> Yes <input type="checkbox"/>	Spec.	_____
Existing Customer spec?	No <input type="checkbox"/> Yes <input type="checkbox"/>	Ref.	_____
Existing Customer product drawing?	No <input type="checkbox"/> Yes <input type="checkbox"/>	Ref.	_____
Existing Customer material spec?	No <input type="checkbox"/> Yes <input type="checkbox"/>	Ref.	_____

Other requirements if any : _____

QUALITY CHARACTERISTICS

Inspection level

According to TTIPL Specification:

Special Request: _____

(e.g. for O Ring, AQL1.0 for surface defects acc. ISO 3601/3 grade N)

Existing inspection plan, if any?	No <input type="checkbox"/> Yes <input type="checkbox"/>	Ref.	_____
Certificate required? If yes, specify	No <input type="checkbox"/> Yes <input type="checkbox"/>	Ref.	_____
Additional Quality guidelines?	No <input type="checkbox"/> Yes <input type="checkbox"/>	Ref.	_____

ENCLOSURES

_____ Pages – specifications	_____ Samples
_____ Drawings	_____ Others

ADDITIONAL INFORMATION

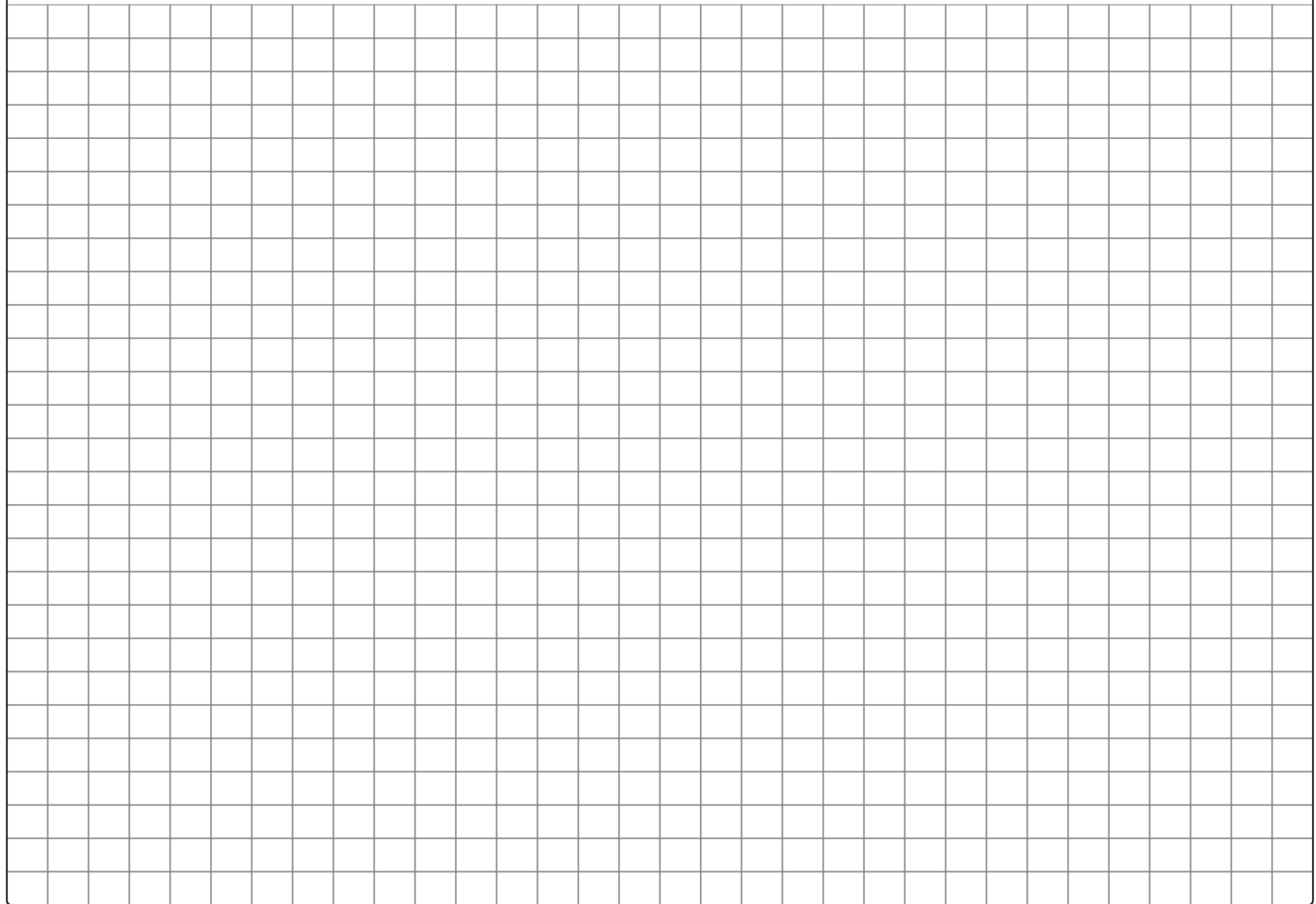
Referring to:

Service Performance (friction, leakage, shelf life, ext/int pollution, etc.):

Use (frequency, cycles, exposure time, etc.):

Logistic / Packaging (any special packaging requirements?):

Sketch/Drawing:





Triada Sealing Guide

#Sealingexcellence

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