



PISTON SEAL

PS112

Features:

Piston seal profile PS112 consists of three piece seal set for sealing pistons with one seal ring having a NBR quad ring installed on face groove and one energizer O-ring.

Composition:

SEAL COMBINATION	SEAL RING COMPOUND	SQUARE ENEGIZER	QUAD RING COMPOUND	TEMP. RANGE	WORKING PRESSURE (Max.)	SURFACE SPEED (Max.)
PS112-01	PT02	NB03	NB02	-35 to 100°C	400 Bar	1 m/s

For compound detail please refer Royal seal compounds. (Section - III)

Properties:

- Low friction, free of stick slip
- Low wear and high extrusion resistance
- Wide fluid application range
- Suitable for dual media like nitrogen on one side and hydraulic oil on another side

Application:

- Piston Accumulators
- Dampers
- Control and regulating apparatus
- For Hydro pneumatic cylinders

Extrusion gap dimension :

The gap dimension on the non-pressurised side of the seal is decisive for sealing function. Figures show the maximum radial clearance on each side using maximum gland bush groove inner dia and minimum rod dia considering respective tolerances.

Profile dimension	Maximum permissible gap (S) for Imperial Size (inch)			
	160 bar	260 bar	320 bar	400 bar
H				
0.210	0.010	0.008	0.006	ASK ROYAL
0.288	0.012	0.010	0.008	ASK ROYAL
0.375	0.012	0.010	0.008	ASK ROYAL

Installation :

PS112 piston seals can be fitted on single-piece pistons. First insert the rubber O / Square Ring into the housing carefully to avoid twisting of Ring. Install the PTFE part carefully with fixture and then place the quad ring on the groove over PTFE part.

Ordering format :

Please Follow ROYAL order code to place your order.

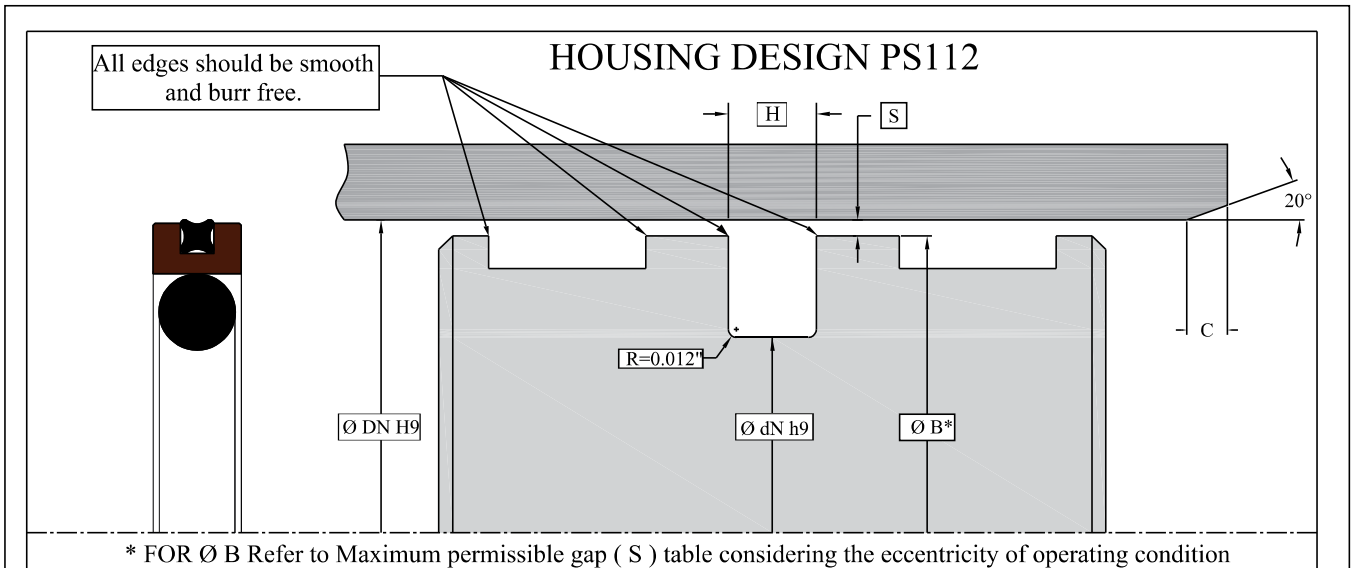
Example : For Imperial Size 1.000"X 0.576"X 0.210" Order Code is **PS112-I-01-01.000 X 00.576 X 0.210**

Please contact ROYAL at info@royalcomposites.co.in / info@royalseals.co.in if your required size is not mentioned in Royal standard size list



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ROYAL STANDARD SIZE LIST

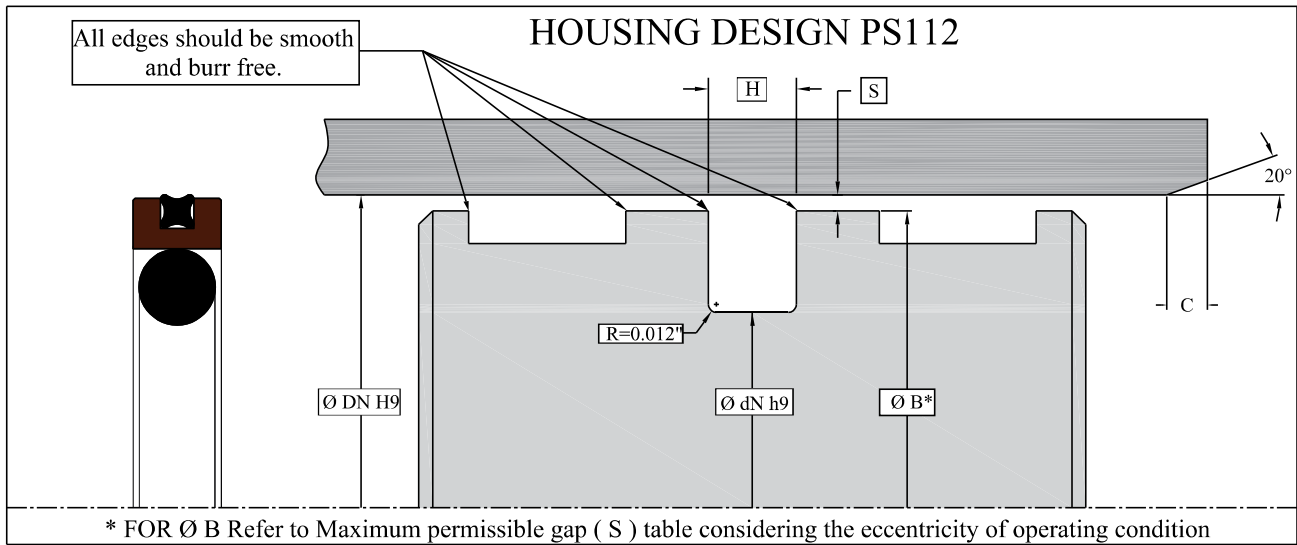
IMPERIAL SIZES

DN (H9)	dN (h9)	H (+0.008")	C	ORDER CODE
1.000	0.576	0.210		PS112-I-01-01.000 X 00.576 X 0.210
1.125	0.701	0.210		PS112-I-01-01.125 X 00.701 X 0.210
1.250	0.826	0.210		PS112-I-01-01.250 X 00.826 X 0.210
1.375	0.951	0.210		PS112-I-01-01.375 X 00.951 X 0.210
1.500	1.076	0.210		PS112-I-01-01.500 X 01.076 X 0.210
1.625	1.201	0.210		PS112-I-01-01.625 X 01.201 X 0.210
1.750	1.326	0.210		PS112-I-01-01.750 X 01.326 X 0.210
1.875	1.451	0.210		PS112-I-01-01.875 X 01.451 X 0.210
2.000	1.384	0.288		PS112-I-01-02.000 X 01.384 X 0.288
2.125	1.509	0.288		PS112-I-01-02.125 X 01.509 X 0.288
2.250	1.634	0.288		PS112-I-01-02.250 X 01.634 X 0.288
2.375	1.759	0.288		PS112-I-01-02.375 X 01.759 X 0.288
2.500	1.884	0.288		PS112-I-01-02.500 X 01.884 X 0.288
2.625	2.009	0.288		PS112-I-01-02.625 X 02.009 X 0.288
2.750	2.134	0.288		PS112-I-01-02.750 X 02.134 X 0.288
2.875	2.259	0.288		PS112-I-01-02.875 X 02.259 X 0.288
3.000	2.384	0.288		PS112-I-01-03.000 X 02.384 X 0.288
3.125	2.509	0.288		PS112-I-01-03.125 X 02.509 X 0.288
3.250	2.634	0.288		PS112-I-01-03.250 X 02.634 X 0.288
3.375	2.759	0.288		PS112-I-01-03.375 X 02.759 X 0.288
3.500	2.884	0.288		PS112-I-01-03.500 X 02.884 X 0.288
3.625	3.009	0.288		PS112-I-01-03.625 X 03.009 X 0.288
3.750	3.134	0.288		PS112-I-01-03.750 X 03.134 X 0.288
3.875	3.259	0.288		PS112-I-01-03.875 X 03.259 X 0.288
4.000	3.384	0.288		PS112-I-01-04.000 X 03.384 X 0.288
4.125	3.509	0.288		PS112-I-01-04.125 X 03.509 X 0.288
4.250	3.634	0.288		PS112-I-01-04.250 X 03.634 X 0.288
4.375	3.759	0.288		PS112-I-01-04.375 X 03.759 X 0.288
4.500	3.884	0.288		PS112-I-01-04.500 X 03.884 X 0.288



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SEALS FOR HYDRAULICS & PNEUMATICS



ROYAL STANDARD SIZE LIST

DN (H9)	dN (h9)	H (+0.008")	C	ORDER CODE
4.625	4.009	0.288		PS112-I-01-04.625 X 04.009 X 0.288
4.750	4.134	0.288		PS112-I-01-04.750 X 04.134 X 0.288
4.875	4.259	0.288		PS112-I-01-04.875 X 04.259 X 0.288
5.000	4.384	0.288		PS112-I-01-05.000 X 04.384 X 0.288
5.125	4.509	0.288		PS112-I-01-05.125 X 04.509 X 0.288
5.250	4.634	0.288		PS112-I-01-05.250 X 04.634 X 0.288
5.375	4.535	0.375		PS112-I-01-05.375 X 04.535 X 0.375
5.500	4.660	0.375		PS112-I-01-05.500 X 04.660 X 0.375
5.625	4.785	0.375		PS112-I-01-05.625 X 04.785 X 0.375
5.750	4.910	0.375		PS112-I-01-05.750 X 04.910 X 0.375
5.875	5.035	0.375		PS112-I-01-05.875 X 05.035 X 0.375
6.000	5.160	0.375		PS112-I-01-06.000 X 05.160 X 0.375
6.125	5.285	0.375		PS112-I-01-06.125 X 05.285 X 0.375
6.250	5.415	0.375		PS112-I-01-06.250 X 05.415 X 0.375
6.375	5.540	0.375		PS112-I-01-06.375 X 05.540 X 0.375
6.500	5.665	0.375		PS112-I-01-06.500 X 05.665 X 0.375
6.625	5.795	0.375		PS112-I-01-06.625 X 05.795 X 0.375
6.750	5.920	0.375		PS112-I-01-06.750 X 05.920 X 0.375
6.875	6.045	0.375		PS112-I-01-06.875 X 06.045 X 0.375
7.000	6.170	0.375		PS112-I-01-07.000 X 06.170 X 0.375
7.250	6.420	0.375		PS112-I-01-07.250 X 06.420 X 0.375
7.500	6.670	0.375		PS112-I-01-07.500 X 06.670 X 0.375
7.750	6.915	0.375		PS112-I-01-07.750 X 06.915 X 0.375
8.000	7.170	0.375		PS112-I-01-08.000 X 07.170 X 0.375
8.250	7.415	0.375		PS112-I-01-08.250 X 07.415 X 0.375
8.500	7.665	0.375		PS112-I-01-08.500 X 07.665 X 0.375
8.750	7.915	0.375		PS112-I-01-08.750 X 07.915 X 0.375
9.000	8.165	0.375		PS112-I-01-09.000 X 08.165 X 0.375
9.250	8.420	0.375		PS112-I-01-09.250 X 08.420 X 0.375
9.500	8.665	0.375		PS112-I-01-09.500 X 08.665 X 0.375
9.750	8.920	0.375		PS112-I-01-09.750 X 08.920 X 0.375

