



PISTON SEAL

PS120

Features:

Piston seal profile PS 120 consists of two piece seal set for sealing pistons with one seal ring and one square/ rectangular energizer ring.

Composition:

SEAL COMBINATION	SEAL RING COMPOUND	ENERGIZER	TEMP. RANGE	WORKING PRESSURE (Max.)	SURFACE SPEED (Max.)
PS120-01	PT06	NB03	-35 to 100°C	400 Bar	4 m/s

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

Properties:

- Low friction, free of stick slip
- High abrasion resistance
- Wide temperature Range
- Good thermal conductivity
- Wide fluid application range

Application:

- Mobile Hydraulics
- Injection moulding machines
- Machine tools
- Material Handling Equipments
- Control and regulating apparatus

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 one side using the minimum piston OD and max bore Ø considering respective tolerances.

Profile dimension H	Maximum permissible gap (S) for Imperial Size (inch)			
	160 bar	260 bar	320 bar	400 bar
0.118 - 0.192	0.010	0.008	0.006	ASK ROYAL
0.252 - 0.284	0.012	0.010	0.008	ASK ROYAL
0.320 - 0.440	0.014	0.012	0.010	ASK ROYAL

Installation :

PS120 piston seals can be fitted on single-piece pistons. First insert the rubber Square/ rectangular Ring into the housing carefully to avoid twisting of Ring. Install the PTFE part carefully with fixture.

Ordering format :

Please Follow ROYAL order code to place your order.

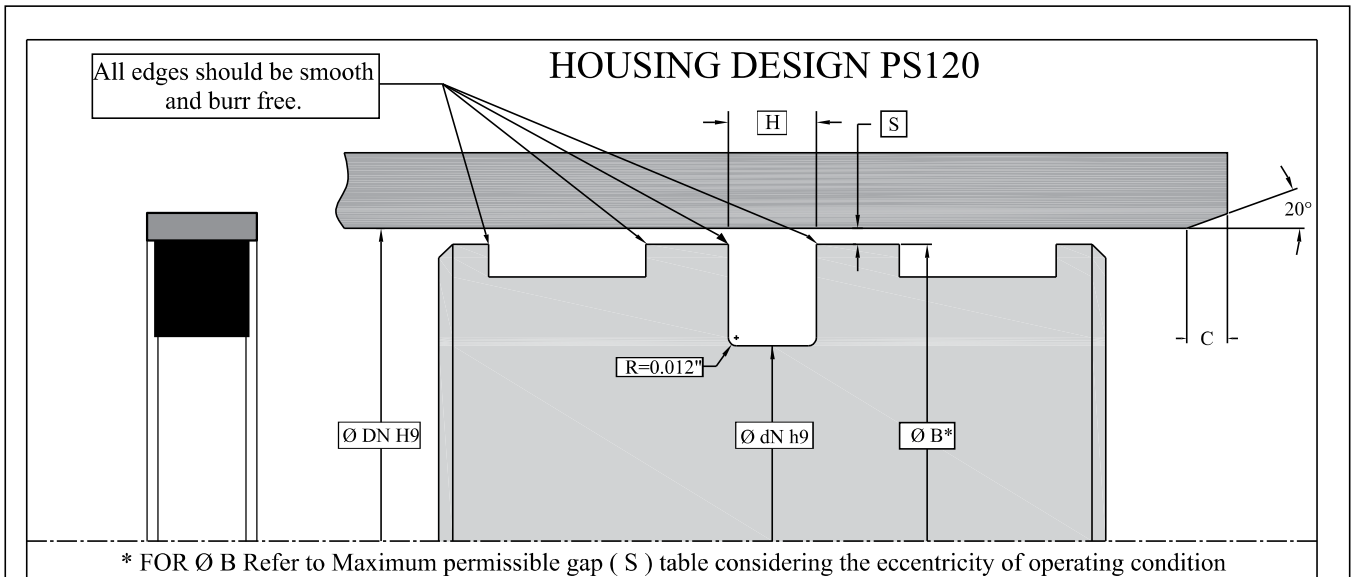
Example : for Size 1.000 X 0.691 X 0.129 order code is **PS120-I-01-01.000 X 00.691 X 0.129**

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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SEALS FOR HYDRAULICS & PNEUMATICS



ROYAL STANDARD SIZE LIST

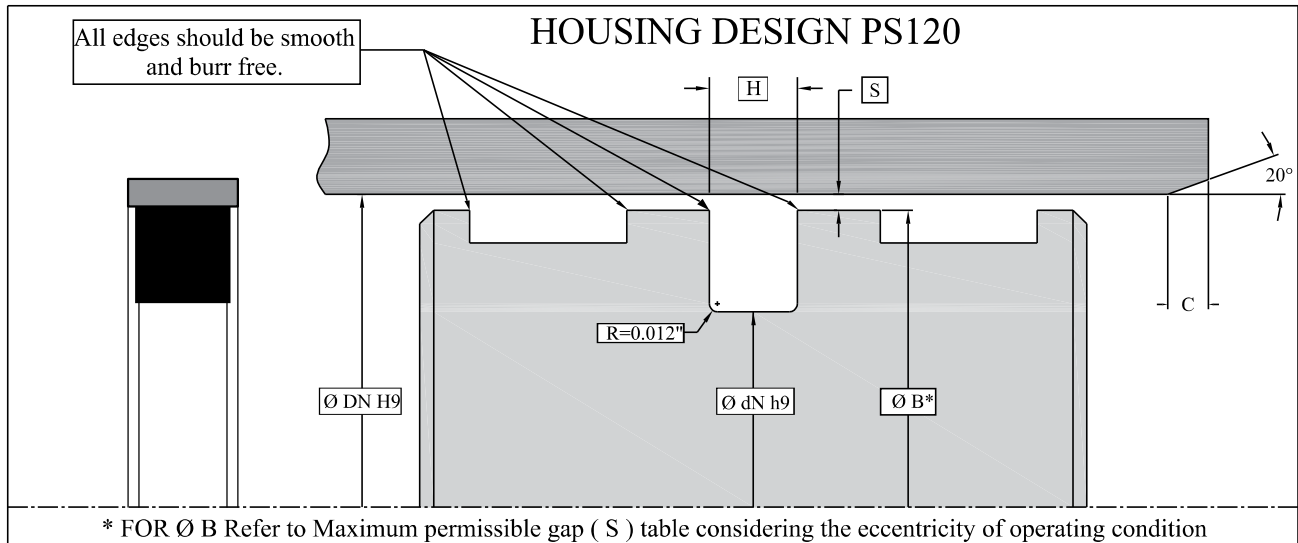
IMPERIAL SIZES

DN (H9)	dN (h9)	H (+0.008")	C	ORDER CODE
1.000	0.691	0.129	0.177	PS120-I-01-01.000 X 00.691 X 0.129
1.250	0.941	0.129	0.177	PS120-I-01-01.250 X 00.941 X 0.129
1.500	1.106	0.118	0.177	PS120-I-01-01.500 X 01.106 X 0.118
1.500	1.190	0.129	0.177	PS120-I-01-01.500 X 01.190 X 0.129
1.750	1.441	0.129	0.177	PS120-I-01-01.750 X 01.441 X 0.129
2.000	1.690	0.129	0.177	PS120-I-01-02.000 X 01.690 X 0.129
2.000	1.625	0.192	0.275	PS120-I-01-02.000 X 01.625 X 0.192
2.250	1.940	0.129	0.177	PS120-I-01-02.250 X 01.940 X 0.129
2.250	1.875	0.192	0.275	PS120-I-01-02.250 X 01.875 X 0.192
2.500	2.190	0.129	0.177	PS120-I-01-02.500 X 02.190 X 0.129
2.500	2.125	0.192	0.275	PS120-I-01-02.500 X 02.125 X 0.192
2.500	1.951	0.255	0.315	PS120-I-01-02.500 X 01.951 X 0.255
2.750	2.440	0.129	0.177	PS120-I-01-02.750 X 02.440 X 0.129
2.750	2.375	0.192	0.275	PS120-I-01-02.750 X 02.375 X 0.192
2.750	2.190	0.284	0.375	PS120-I-01-02.750 X 02.190 X 0.284
3.000	2.460	0.192	0.275	PS120-I-01-03.000 X 02.460 X 0.192
3.000	2.440	0.284	0.375	PS120-I-01-03.000 X 02.440 X 0.284
3.150	2.594	0.284	0.375	PS120-I-01-03.150 X 02.594 X 0.284
3.250	2.860	0.129	0.177	PS120-I-01-03.250 X 02.860 X 0.129
3.250	2.710	0.192	0.275	PS120-I-01-03.250 X 02.710 X 0.192
3.250	2.690	0.284	0.375	PS120-I-01-03.250 X 02.690 X 0.284
3.500	2.960	0.192	0.275	PS120-I-01-03.500 X 02.960 X 0.192
3.500	2.940	0.284	0.375	PS120-I-01-03.500 X 02.940 X 0.284
3.750	3.210	0.192	0.275	PS120-I-01-03.750 X 03.210 X 0.192
3.750	3.190	0.284	0.375	PS120-I-01-03.750 X 03.190 X 0.284
4.000	3.210	0.192	0.275	PS120-I-01-04.000 X 03.210 X 0.192
4.000	3.335	0.252	0.315	PS120-I-01-04.000 X 03.335 X 0.252
4.000	3.482	0.252	0.315	PS120-I-01-04.000 X 03.482 X 0.252
4.000	3.440	0.284	0.375	PS120-I-01-04.000 X 03.440 X 0.284



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ROYAL STANDARD SIZE LIST

DN (H9)	dN (h9)	H (+0.008")	C	ORDER CODE
4.000	3.451	0.320	0.430	PS120-I-01-04.000 X 03.451 X 0.320
4.000	3.238	0.379	0.500	PS120-I-01-04.000 X 03.238 X 0.379
4.125	3.460	0.252	0.315	PS120-I-01-04.125 X 03.460 X 0.252
4.250	3.585	0.252	0.315	PS120-I-01-04.250 X 03.585 X 0.252
4.250	3.690	0.284	0.375	PS120-I-01-04.250 X 03.690 X 0.284
4.500	3.835	0.252	0.315	PS120-I-01-04.500 X 03.835 X 0.252
4.500	3.940	0.284	0.375	PS120-I-01-04.500 X 03.940 X 0.284
4.500	3.951	0.320	0.430	PS120-I-01-04.500 X 03.951 X 0.320
4.625	4.078	0.284	0.375	PS120-I-01-04.625 X 04.078 X 0.284
4.750	4.085	0.252	0.315	PS120-I-01-04.750 X 04.085 X 0.252
4.750	4.190	0.284	0.375	PS120-I-01-04.750 X 04.190 X 0.284
5.000	4.440	0.284	0.375	PS120-I-01-05.000 X 04.440 X 0.284
5.000	4.239	0.370	0.500	PS120-I-01-05.000 X 04.239 X 0.370
5.000	4.225	0.379	0.500	PS120-I-01-05.000 X 04.225 X 0.379
5.250	4.475	0.379	0.500	PS120-I-01-05.250 X 04.475 X 0.379
5.250	4.488	0.379	0.500	PS120-I-01-05.250 X 04.488 X 0.379
5.500	4.725	0.379	0.500	PS120-I-01-05.500 X 04.725 X 0.379
5.500	4.738	0.379	0.500	PS120-I-01-05.500 X 04.738 X 0.379
5.625	4.863	0.379	0.500	PS120-I-01-05.625 X 04.863 X 0.379
5.750	4.975	0.379	0.500	PS120-I-01-05.750 X 04.975 X 0.379
5.750	4.988	0.379	0.500	PS120-I-01-05.750 X 04.988 X 0.379
6.000	5.095	0.379	0.500	PS120-I-01-06.000 X 05.095 X 0.379
6.000	5.238	0.379	0.500	PS120-I-01-06.000 X 05.238 X 0.379
6.250	5.345	0.379	0.500	PS120-I-01-06.250 X 05.345 X 0.379
6.250	5.488	0.379	0.500	PS120-I-01-06.250 X 05.488 X 0.379
6.500	5.595	0.379	0.500	PS120-I-01-06.500 X 05.595 X 0.379
6.500	5.738	0.379	0.500	PS120-I-01-06.500 X 05.738 X 0.379
7.000	6.095	0.379	0.500	PS120-I-01-07.000 X 06.095 X 0.379
7.000	6.238	0.379	0.500	PS120-I-01-07.000 X 06.238 X 0.379
7.250	6.345	0.379	0.500	PS120-I-01-07.250 X 06.345 X 0.379

