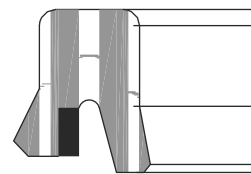


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SEALS FOR HYDRAULICS & PNEUMATICS

PISTON SEAL

PS040



Features:

Piston seal profile PS040 is a single acting U cup type seal which have very good static and dynamic tightness. The seal can be used for double acting applications by fitting back to back in separate grooves. The outer dynamic lip is more robust to provide improved sealing and compression set characteristics. The seal is manufactured in two different material, PUET93 Polyurethane and FPM80 Fluorocarbon Rubber for different application temperature range.

Composition:

Seal Profile type	PS040-U	PS040-F
Material	Polyurethane	Fluorocarbon Rubber
Code	PUAB94	FPM80
Hardness	94° Shore A	80° Shore A

Properties:

- 1 High resistance to abrasion
- 1 Easy installation

Application:

- Ø Mobile Hydraulics
- Ø Injection molding machines
- Ø Machine tools
- Ø Agricultural equipment
- Ø Standard cylinders

General Technical Data:

Seal Profile	PS040-U	PS040-F
Temperature range	-30°C to +110°C	-20°C to +200°C
Working Pressure(max.)	400 bar	160 bar
Surface Speed(max.)	0.5 m/s	0.5 m/s

Maximum working pressure can be extended for PS040-U up to 400 bar and for PS040-F up to 320 bar with the use of a back up ring. If this option is required ask SHREENATHJI.

Surface finish:

Roughness depth	R(max.)	Ra
Sliding surface	Ø 2,5 µm	0,05-0,3 µm
Bottom of groove	Ø 6,3 µm	Ø 1,6 µm
Sides of groove	Ø 15 µm	Ø 3 µm

Gap dimension:

The largest gap dimension appearing in operation on the non-pressurized side of the seal is decisive for sealing function. Figures show the maximum permissible gap all on one side using the minimum clearance Ø and max bore Ø.

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Profile Type	Maximum permissible gap (S)				
	160 bar	260 bar	320 bar	400 bar	
PS040-U	0.5	0.4	0.35	Ask	
PS040-F	0.4	Ask Us	Ask Us	Ask Us	

Fitting:

PS040 is very easy to fit. Careful fitting of the seal is a prerequisite for it's perfect functioning.

Ordering format:

Please mention SHREENATHJI order code in your order. Example: Size 16 X 8 X 6.3

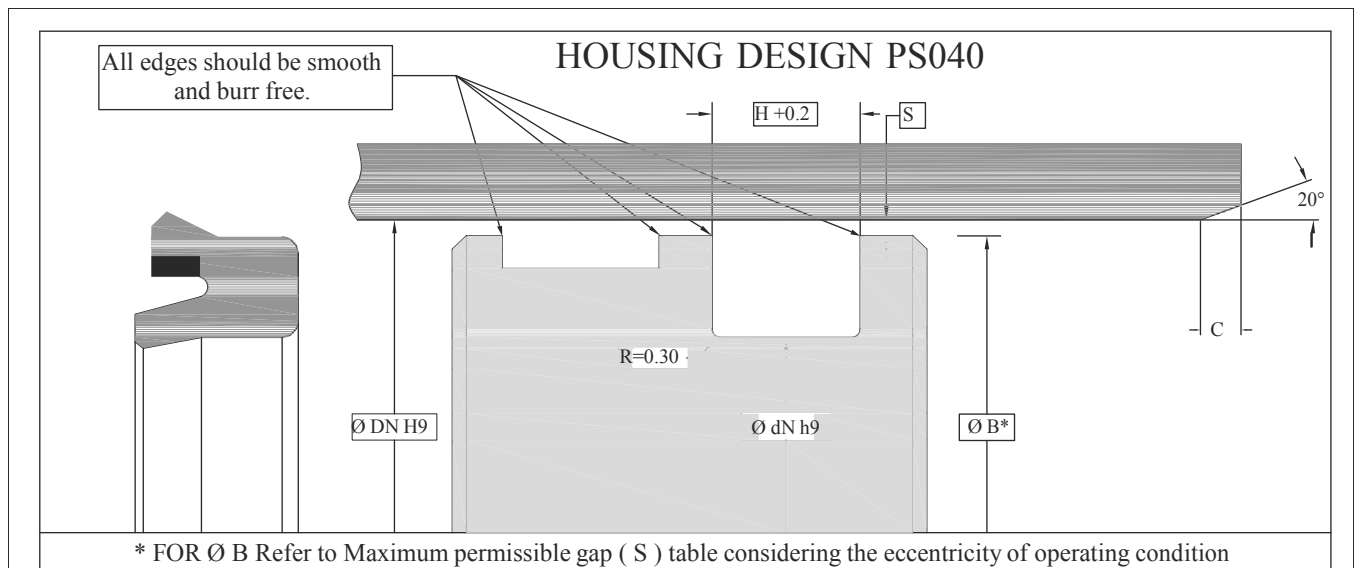
For Temp range: -30°C to +110°C Order code is PS040-U-0160-0080-063

For Temp range: -20°C to +200°C Order code is PS040-F-0160-0080-063

We have given all metric(mm) sizes here. For Imperial (inch) sizes please contact SHREENATHJI at info@shreenathjiandco.com

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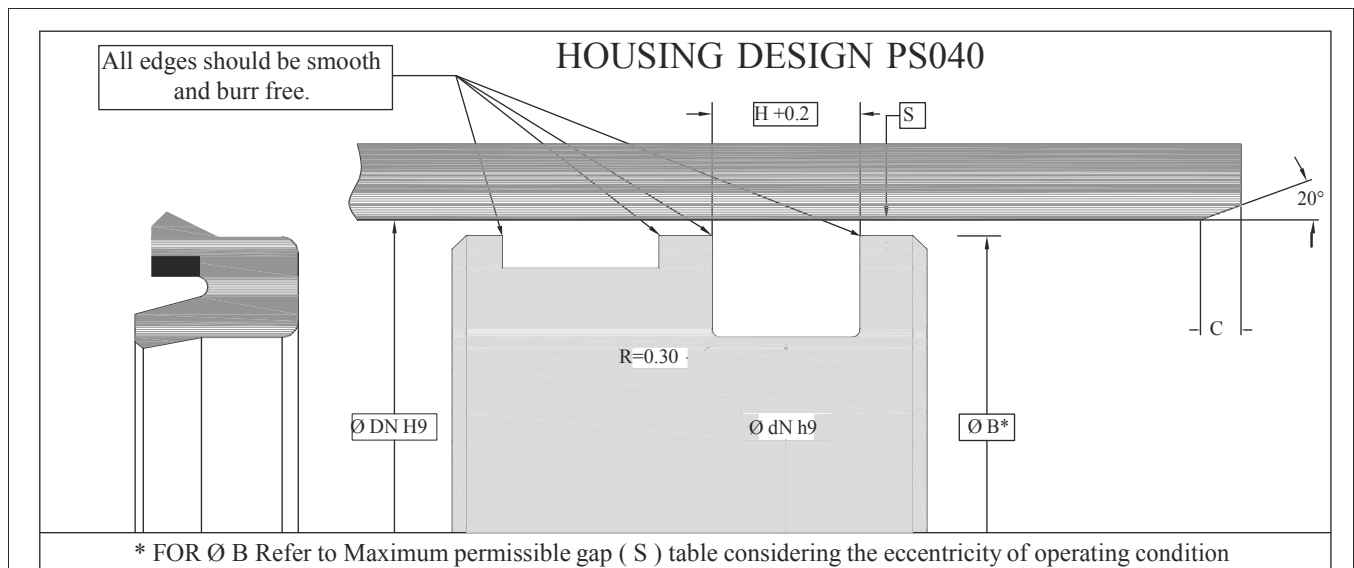


OUR STANDARD SIZE LIST

DN	TOL.H9	dN	TOL.h9	H+0.2	C	ORDER CODE For temp. range -30 to +110°C use PS040-U -20 to +200°C use PS040-F
16	+0.000 +0.043	8	-0.000 -0.036	6.3	4.5	PS040-U-0160-0080-063
20	+0.000 +0.052	12	-0.000 -0.043	6.3	4.5	PS040-U-0200-0120-063
20	+0.000 +0.052	12	-0.000 -0.043	8.7	5.5	PS040-U-0200-0120-087
22	+0.000 +0.052	14	-0.000 -0.043	6.3	4.5	PS040-U-0220-0140-063
22	+0.000 +0.052	14	-0.000 -0.043	10	6	PS040-U-0220-0140-100
25	+0.000 +0.052	17	-0.000 -0.043	6.3	4.5	PS040-U-0250-0170-063
26	+0.000 +0.052	18	-0.000 -0.043	6.3	4.5	PS040-U-0260-0180-063
28	+0.000 +0.052	22	-0.000 -0.043	4	3	PS040-U-0280-220-040
28	+0.000 +0.052	20	-0.000 -0.043	6.3	4.5	PS040-U-0280-200-063
32	+0.000 +0.062	24	-0.000 -0.052	6.3	5.5	PS040-U-0320-0240-063
35	+0.000 +0.062	20	-0.000 -0.052	7.5	5.5	PS040-U-0350-0200-075
35	+0.000 +0.062	25	-0.000 -0.052	8	5.5	PS040-U-0350-0250-080
36	+0.000 +0.062	26	-0.000 -0.052	8	5.5	PS040-U-0360-0260-080
40	+0.000 +0.062	25	-0.000 -0.062	11	6	PS040-U-0400-0250-110
40	+0.000 +0.062	28	-0.000 -0.062	11	6	PS040-U-0400-0280-110

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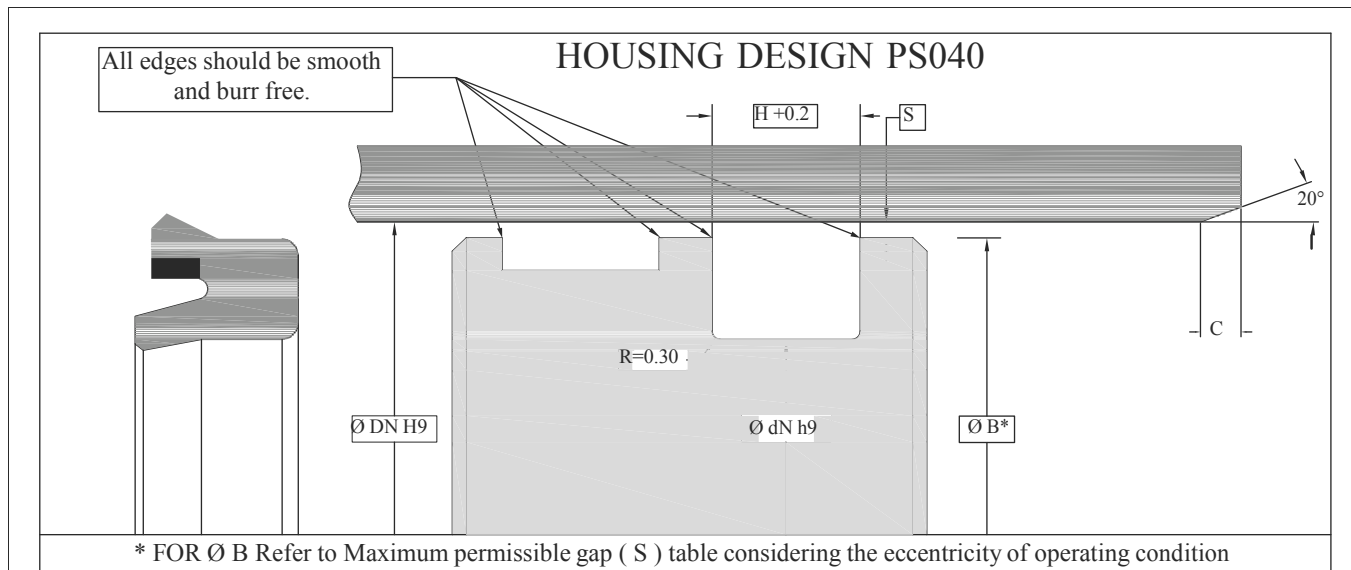


OUR STANDARD SIZE LIST

DN	TOL.H9	dN	TOL.h9	H+0.2	C	ORDER CODE For temp. range -30°C to +110°C use PS040-U -20°C to +200°C use PS040-F
40	+0.000 +0.062	30	-0.000 -0.062	8	5.5	PS040-U-0400-0300-080
40	+0.000 +0.062	32	-0.000 -0.062	8	5.5	PS040-U-0400-0320-080
45	+0.000 +0.062	30	-0.000 -0.062	11	6	PS040-U-0450-0300-110
45	+0.000 +0.062	35	-0.000 -0.062	8	5.5	PS040-U-0450-0350-080
50	+0.000 +0.062	35	-0.000 -0.062	10	6.0	PS040-U-0500-0350-100
50	+0.000 +0.062	40	-0.000 -0.062	8	5.5	PS040-U-0500-0400-080
50	+0.000 +0.062	38	-0.000 -0.062	8	5.5	PS040-U-0500-0380-080
50	+0.000 +0.062	36	-0.000 -0.062	11	6.0	PS040-U-0500-0360-110
50.80	+0.000 +0.062	28.57	-0.000 -0.062	12.7	6.0	PS040-U-0508-0285-127
60	+0.000 +0.074	40	-0.000 -0.062	10	6.0	PS040-U-0600-0400-100
60	+0.000 +0.074	45	-0.000 -0.062	11	6.0	PS040-U-0600-0450-110
60	+0.000 +0.074	50	-0.000 -0.062	8	5.5	PS040-U-0600-0500-080
63	+0.000 +0.074	43	-0.000 -0.062	13	6.0	PS040-U-0630-0430-130
63	+0.000 +0.074	45	-0.000 -0.062	11	6.0	PS040-U-0630-0450-110
63	+0.000 +0.074	48	-0.000 -0.062	12.5	6.0	PS040-U-0630-0480-125

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SEALS FOR HYDRAULICS & PNEUMATICS

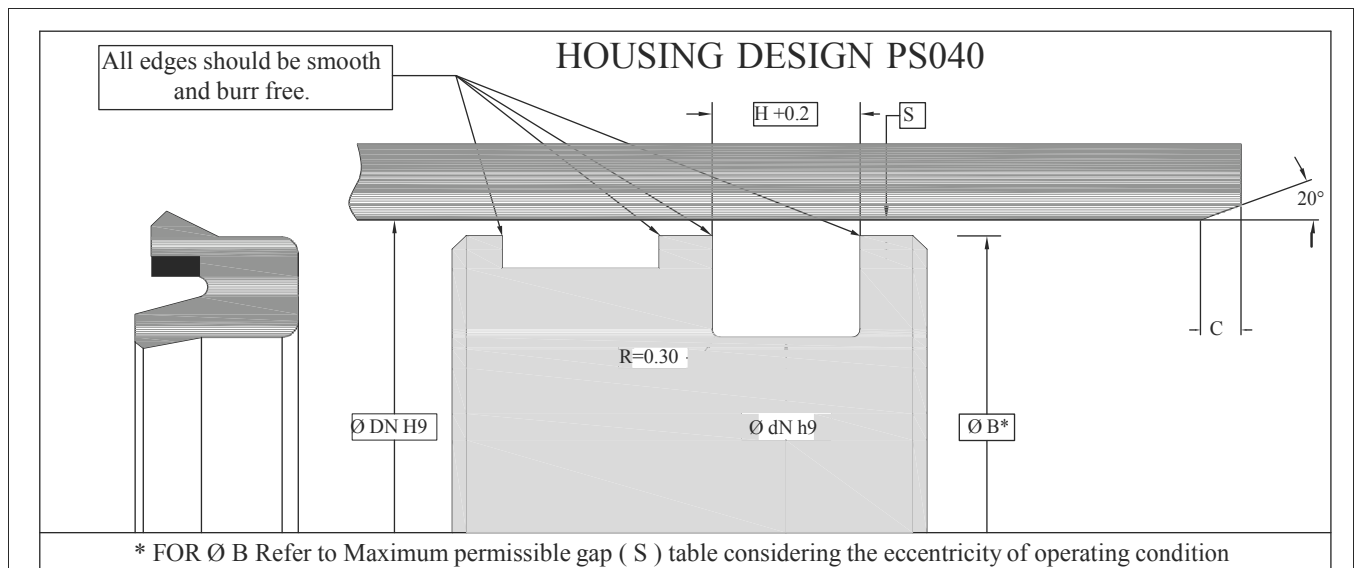


OUR STANDARD SIZE LIST

DN	TOL.H9	dN	TOL.h9	H+0.2	C	ORDER CODE For temp. range -30°C to +110°C use PS040-U -20°C to +200°C use PS040-F
63	+0.000 +0.074	50	-0.000 -0.074	8	5.5	PS040-U-0630-0500-080
63	+0.000 +0.074	53	-0.000 -0.074	8	5.5	PS040-U-0630-0530-080
63	+0.000 +0.074	53	-0.000 -0.074	10	6.0	PS040-U-0630-0530-100
70	+0.000 +0.074	50	-0.000 -0.062	13	6.0	PS040-U-0700-0500-130
70	+0.000 +0.074	55	-0.000 -0.074	11	6.0	PS040-U-0700-0550-110
75	+0.000 +0.074	63	-0.000 -0.074	9	6.0	PS040-U-0750-0630-090
75	+0.000 +0.074	55	-0.000 -0.074	12.5	6.0	PS040-U-0750-0550-125
76.2	+0.000 +0.074	60.53	-0.000 -0.074	13.5	6.0	PS040-U-0762-0605-135
80	+0.000 +0.074	72	-0.000 -0.074	12	6.0	PS040-U-0800-0720-120
80	+0.000 +0.074	60	-0.000 -0.074	13	6.0	PS040-U-0800-0600-130
80	+0.000 +0.074	70	-0.000 -0.074	8	5.5	PS040-U-0800-0700-080
80	+0.000 +0.074	68	-0.000 -0.074	9.5	6.0	PS040-U-0800-0680-095
80	+0.000 +0.074	65	-0.000 -0.074	9	6.0	PS040-U-0800-0650-090
80	+0.000 +0.074	65	-0.000 -0.074	13	6.0	PS040-U-0800-0650-130
85	+0.000 +0.074	65	-0.000 -0.074	10	6.0	PS040-U-0850-0650-100

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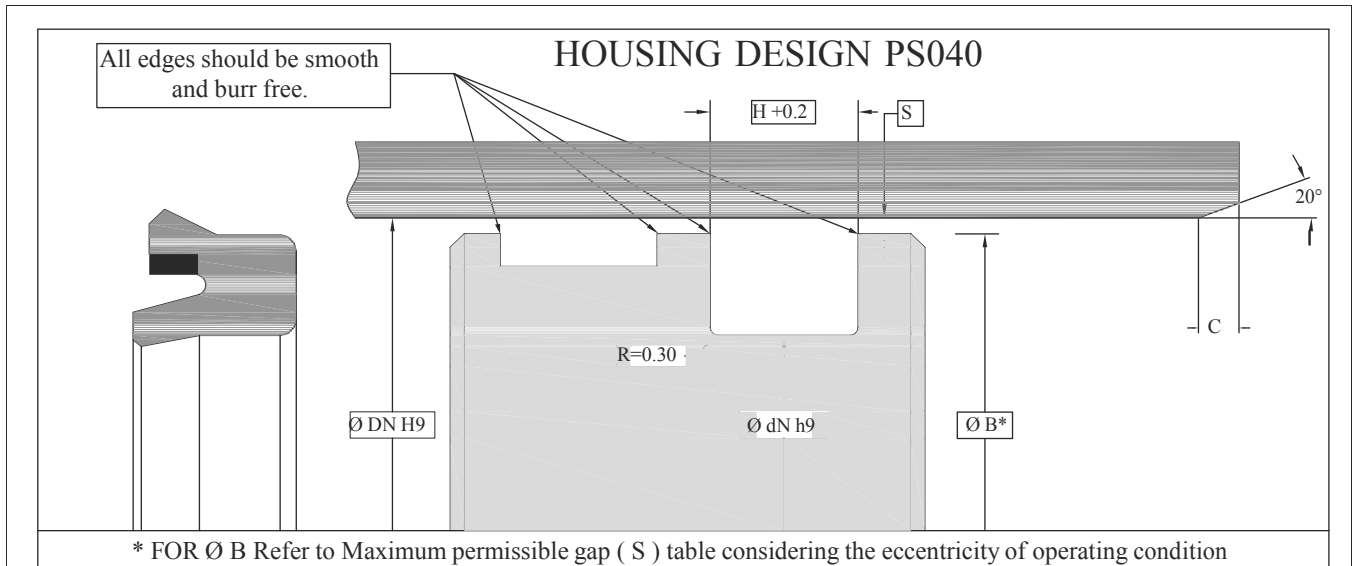


OUR STANDARD SIZE LIST

DN	TOL.H9	dN	TOL.h9	H+0.2	C	ORDER CODE For temp. range -30°C to +110°C use PS040-U -20°C to +200°C use PS040-F
90	+0.000 +0.074	80	-0.000 -0.074	14	6.5	PS040-U-0900-0800-140
90	+0.000 +0.074	78	-0.000 -0.074	9.5	6.0	PS040-U-0900-0780-095
90	+0.000 +0.074	75	-0.000 -0.074	13	6.5	PS040-U-0900-0750-130
90	+0.000 +0.074	70	-0.000 -0.074	13	6.5	PS040-U-0900-0700-130
100	+0.000 +0.087	90	-0.000 -0.074	10.5	6.5	PS040-U-1000-0900-105
100	+0.000 +0.087	88	-0.000 -0.074	9.5	6.0	PS040-U-1000-0880-095
100	+0.000 +0.087	80	-0.000 -0.074	13	6.5	PS040-U-1000-0800-130
100	+0.000 +0.087	80	-0.000 -0.074	14	6.5	PS040-U-1000-0800-140
100	+0.000 +0.087	75	-0.000 -0.074	20	8	PS040-U-1000-0750-200
107.95	+0.000 +0.087	92.46	-0.000 -0.074	13.5	6.5	PS040-U-1079-9246-135
110	+0.000 +0.087	85	-0.000 -0.074	20	8	PS040-U-1100-0850-200
120	+0.000 +0.100	100	-0.000 -0.087	13	6.5	PS040-U-1200-1000-130
125	+0.000 +0.100	100	-0.000 -0.087	13	6.5	PS040-U-1250-1000-130
125	+0.000 +0.100	100	-0.000 -0.087	16	7.5	PS040-U-1250-1000-160
125	+0.000 +0.100	105	-0.000 -0.087	16	7.5	PS040-U-1250-1050-160

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SEALS FOR HYDRAULICS & PNEUMATICS



OUR STANDARD SIZE LIST

DN	TOL.H9	dN	TOL.h9	H+0.2	C	ORDER CODE For temp. range -30°C to +110°C use PS040-U -20°C to +200°C use PS040-F
140	+0.000 +0.100	115	-0.000 -0.100	16	7.5	PS040-U-1400-1150-160
140	+0.000 +0.100	120	-0.000 -0.100	16	7.5	PS040-U-1400-1200-160
150	+0.000 +0.100	125	-0.000 -0.100	13	6.5	PS040-U-1500-1250-130
150	+0.000 +0.100	125	-0.000 -0.100	16	7.5	PS040-U-1500-1250-160
150	+0.000 +0.100	130	-0.000 -0.100	16	7.5	PS040-U-1500-1300-160
160	+0.000 +0.100	140	-0.000 -0.100	16	7.5	PS040-U-1600-1400-160
180	+0.000 +0.100	160	-0.000 -0.100	16	7.5	PS040-U-1800-1600-160
200	+0.000 +0.115	180	-0.000 -0.100	16	7.5	PS040-U-2000-1800-160
200	+0.000 +0.115	170	-0.000 -0.100	20	8	PS040-U-2000-1700-200