



PISTON SEAL

PS024

Features:

Piston seal profile PS024 consists of five piece seal set for sealing pistons with one elastomer seal ring, two back-up support rings and two L-shape guide rings.

Composition:

SEAL COMBINATION	SEAL RING COMPOUND	BACKUP-RING COMPOUND	L-RING COMPOUND	TEMP. RANGE	WORKING PRESSURE (Max.)	SURFACE SPEED (Max.)
PS024-01	NB03	PU 07	PA01	-35 to 100°C	315 Bar	0.5 m/s

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

Properties:

- Less space required for seal and guide elements.
- Prevents distortion inside the groove.
- Single Piece Piston with one groove.
- No extrusion into the radial sealing gap
- Suitable for rapid energisation.
- Sealing component protected against twisting.
- Zero leakage.

Application:

- Mobile Hydraulics
- Injection moulding machines
- Machine tools
- Piston Accumulator.
- Agricultural equipment
- Standard cylinders

Fitting:

PS024 is very easy to fit. Careful fitting of the seal is a prerequisite for it's perfect functioning.

Surface finish:

Roughness depth	R(max)	Ra
Sliding surface	≤ 2.5 µm	0.05-0.3 µm
Bottom of groove	≤ 6.3 µm	≤ 1.6 µm
Side of groove	≤ 15 µm	≤ 3µm

Ordering format:

Please mention ROYAL Order Code in your order.

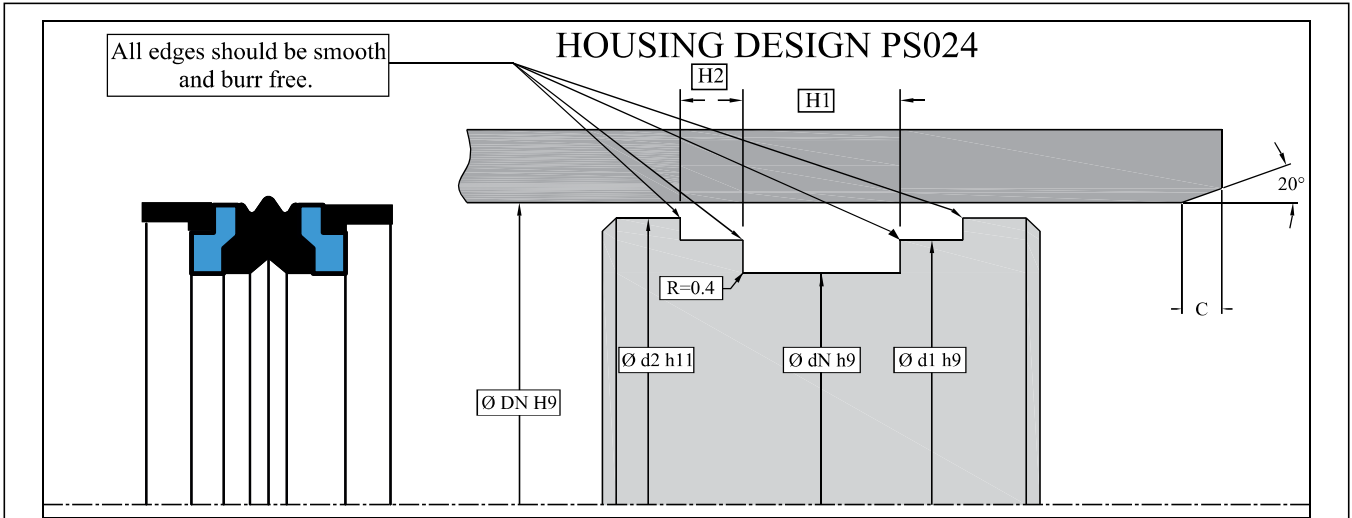
Example: Size 25 X 15 X 12 Order Code is **PS024-M-01-025.00 X 015.00 X 12.00/20.00**

Please contact ROYAL at info@royalcomposites.co.in / info@royalseals.co.in if your required size is not mentioned in Royal standard size list or if you need a different combination.



ROYAL

SEALS FOR HYDRAULICS & PNEUMATICS



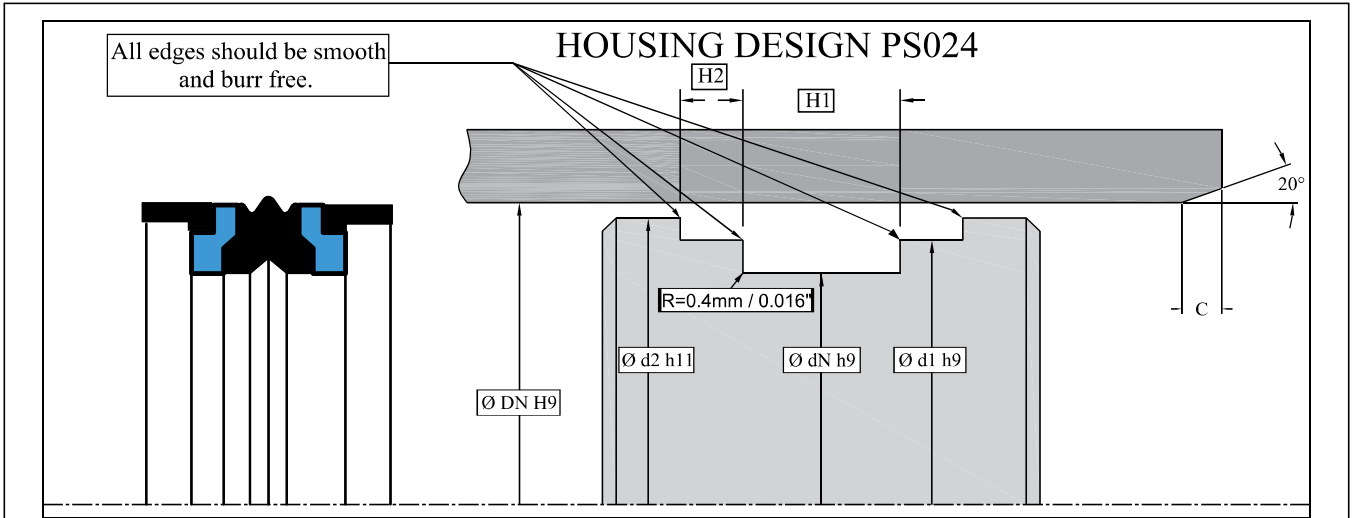
ROYAL STANDARD SIZE LIST

DN (H9)	dN (h9)	d1	d2	H1 (+0.20)	H2 (+0.10)	C	ORDER CODE
25.00	15.00	21.00	23.00	12.00	4.00	4.00	PS024-M-01-025.00 X 015.00 X 12.0/20.0
32.00	22.00	28.50	30.50	16.40	6.40	4.00	PS024-M-01-032.00 X 022.00 X 16.4/29.2
40.00	24.00	35.40	38.70	18.40	6.40	4.00	PS024-M-01-040.00 X 024.00 X 18.4/31.2
40.00	26.00	36.00	39.00	16.40	2.60	4.00	PS024-M-01-040.00 X 026.00 X 16.4/21.6
40.00	30.00	37.00	39.00	12.50	4.00	4.00	PS024-M-01-040.00 X 030.00 X 12.5/20.5
40.00	30.00	35.40	38.50	16.40	6.40	4.00	PS024-M-01-040.00 X 030.00 X 16.4/29.2
50.00	34.00	46.00	49.00	20.50	3.10	4.00	PS024-M-01-050.00 X 034.00 X 20.5/26.7
50.00	34.00	45.40	49.00	18.40	6.40	4.00	PS024-M-01-050.00 X 034.00 X 18.4/31.2
55.00	39.00	50.40	54.00	18.40	6.40	4.00	PS024-M-01-055.00 X 039.00 X 18.4/31.2
60.00	44.00	55.40	58.70	18.40	6.40	4.00	PS024-M-01-060.00 X 044.00 X 18.4/31.2
60.00	44.00	56.00	59.00	20.50	3.10	4.00	PS024-M-01-060.00 X 044.00 X 20.5/26.7
60.00	44.00	56.00	59.00	20.50	3.10	4.00	PS024-M-01-060.00 X 044.00 X 20.5/26.7
63.00	47.00	58.40	61.70	18.40	6.40	4.00	PS024-M-01-063.00 X 047.00 X 18.4/31.2
65.00	49.00	61.00	64.00	20.50	3.10	4.00	PS024-M-01-065.00 X 049.00 X 20.5/26.7
70.00	50.00	64.20	68.30	22.40	6.40	4.00	PS024-M-01-070.00 X 050.00 X 22.4/35.2
70.00	58.00	66.00	69.40	20.50	4.20	4.00	PS024-M-01-070.00 X 058.00 X 20.5/28.9
75.00	55.00	69.20	73.30	22.40	6.40	4.00	PS024-M-01-075.00 X 055.00 X 22.4/35.2
80.00	60.00	74.20	78.30	22.40	6.40	5.00	PS024-M-01-080.00 X 060.00 X 22.4/35.2
80.00	62.00	76.00	79.00	22.50	3.60	5.00	PS024-M-01-080.00 X 062.00 X 22.5/29.7
85.00	65.00	79.20	83.30	22.40	6.40	5.00	PS024-M-01-085.00 X 065.00 X 22.4/35.2
90.00	70.00	84.20	88.30	22.40	6.40	5.00	PS024-M-01-090.00 X 070.00 X 22.4/35.2
90.00	72.00	86.00	89.00	22.50	3.60	5.00	PS024-M-01-090.00 X 072.00 X 22.5/29.7
95.00	75.00	89.20	93.30	22.40	6.40	5.00	PS024-M-01-095.00 X 075.00 X 22.4/35.2
100.00	75.00	93.20	98.00	22.40	6.40	5.00	PS024-M-01-100.00 X 075.00 X 22.4/35.2
100.00	82.00	96.00	99.00	22.50	3.60	5.00	PS024-M-01-100.00 X 082.00 X 22.5/29.7
100.00	86.00	96.00	99.40	22.50	5.20	5.00	PS024-M-01-100.00 X 086.00 X 22.5/32.9
105.00	80.00	98.10	103.00	22.40	6.40	5.00	PS024-M-01-105.00 X 080.00 X 22.4/35.2
110.00	85.00	103.10	108.00	22.40	6.40	5.00	PS024-M-01-110.00 X 085.00 X 22.4/35.2
115.00	90.00	108.10	113.00	22.40	6.40	6.00	PS024-M-01-115.00 X 090.00 X 22.4/35.2
120.00	95.00	113.10	118.00	22.40	6.40	6.00	PS024-M-01-120.00 X 095.00 X 22.4/35.2
125.00	100.00	118.10	123.00	25.40	6.40	6.00	PS024-M-01-125.00 X 100.00 X 25.4/38.2
125.00	103.00	121.00	124.00	26.50	5.10	6.00	PS024-M-01-125.00 X 103.00 X 26.5/36.7
130.00	105.00	123.10	128.00	25.40	6.40	6.00	PS024-M-01-130.00 X 105.00 X 25.4/38.2



ROYAL

SEALS FOR HYDRAULICS & PNEUMATICS



ROYAL STANDARD SIZE LIST

DN (H9)	dN (h9)	d1	d2	H1 (+0.20)	H2 (+0.10)	C	ORDER CODE
130.00	105.00	122.70	127.50	25.40	9.50	6.00	PS024-M-01-130.00 X 105.00 X 25.4/44.4
135.00	110.00	128.10	133.00	25.40	6.40	6.00	PS024-M-01-135.00 X 110.00 X 25.4/38.2
135.00	110.00	127.60	132.50	25.40	9.50	6.00	PS024-M-01-135.00 X 110.00 X 25.4/44.4
140.00	115.00	133.00	138.00	25.40	6.40	6.00	PS024-M-01-140.00 X 115.00 X 25.4/38.2
140.00	115.00	132.60	137.50	25.40	9.50	6.00	PS024-M-01-140.00 X 115.00 X 25.4/44.4
140.00	118.00	136.00	139.00	26.50	5.10	6.00	PS024-M-01-140.00 X 118.00 X 26.5/36.7
145.00	120.00	138.30	143.00	25.40	6.40	6.00	PS024-M-01-145.00 X 120.00 X 25.4/38.2
145.00	120.00	137.90	142.50	25.40	9.50	6.00	PS024-M-01-145.00 X 120.00 X 25.4/44.4
150.00	125.00	143.00	148.00	25.40	6.40	6.00	PS024-M-01-150.00 X 125.00 X 25.4/38.2
150.00	125.00	142.60	147.50	25.40	9.50	6.00	PS024-M-01-150.00 X 125.00 X 25.4/44.4
160.00	130.00	153.00	157.50	25.40	6.40	6.00	PS024-M-01-160.00 X 130.00 X 25.4/38.2
160.00	135.00	152.60	157.50	25.40	9.50	6.00	PS024-M-01-160.00 X 135.00 X 25.4/44.4
175.00	150.00	166.70	172.10	25.40	12.70	6.00	PS024-M-01-175.00 X 150.00 X 25.4/50.8
180.00	155.00	171.70	177.10	25.40	12.70	6.00	PS024-M-01-180.00 X 155.00 X 25.4/50.8
200.00	175.00	191.60	197.00	25.40	12.70	6.00	PS024-M-01-200.00 X 175.00 X 25.4/50.8
220.00	190.00	212.70	217.90	35.40	6.40	6.00	PS024-M-01-220.00 X 190.00 X 35.4/48.2
225.00	200.00	216.60	222.00	25.40	12.70	6.00	PS024-M-01-225.00 X 200.00 X 25.4/50.8
250.00	225.00	241.60	247.00	25.40	12.70	6.00	PS024-M-01-250.00 X 225.00 X 25.4/50.8

IMPERIAL SIZES

DN (H9)	dN (h9)	d1	d2	H1 (+0.008")	H2 (+0.004")	C	ORDER CODE
2.000	1.375	1.820	1.950	0.750	0.250	0.157	PS024-I-01-02.000X01.375X0.750/1.250
2.500	1.875	2.321	2.450	0.750	0.250	0.157	PS024-I-01-02.500X01.875X0.750/1.250
3.000	2.250	2.774	2.940	0.937	0.250	0.197	PS024-I-01-03.000X02.250X0.937/1.437
3.500	2.750	3.274	3.440	0.937	0.250	0.197	PS024-I-01-03.500X02.750X0.937/1.437
4.000	3.250	3.773	3.940	0.937	0.250	0.197	PS024-I-01-04.000X03.250X0.937/1.437