

DESCRIPTION

Bi-directional rod wiper with shoulder for pneumatic cylinders

MATERIAL

Type: Polyurethane
Designation: SEALPUR 93
Hardness: 93 °ShA

MAIN FEATURES

The functions of the RBP bi-directional rod wiper are:

- to prevent introduction of dust, dirt and foreign matter into the system; this is achieved by a special wiper lip which produces a very effective cleaning action, prevents the development of scores, protects the guiding parts and extends the service life of the axial moving rod seals.
- to prevent the release of air from the cylinder ensuring a perfect seal; the asymmetric lips are designed to differentiate the behavior of the lips on the static and dynamic surfaces: the dynamic lip is rounded, flexible and more sensitive to pressure fluctuations; the static lip is longer and stronger to concentrate load against the static surface.

The material used to produce this seal is a polyurethane compound, specifically developed for the production of pneumatic seals, that ensures excellent properties on wear-resistance, extended service life and low permanent deformation.

- Simple groove design
- Geometry of the sealing lips is designed to operate with air lubricated and dry

- Low friction at all usage pressure
- Easy installation without expensive auxiliaries
- Excellent wear-resistance
- Extended service life

FIELD OF APPLICATION

Pressure	≤ 16 bar
Speed	≤ 1 m/s
Temperature	-35°C ÷ +80°C
Fluids	Air with or without lubrication, grease, mineral oils, non-aggressive gases, etc.

SURFACE ROUGHNESS

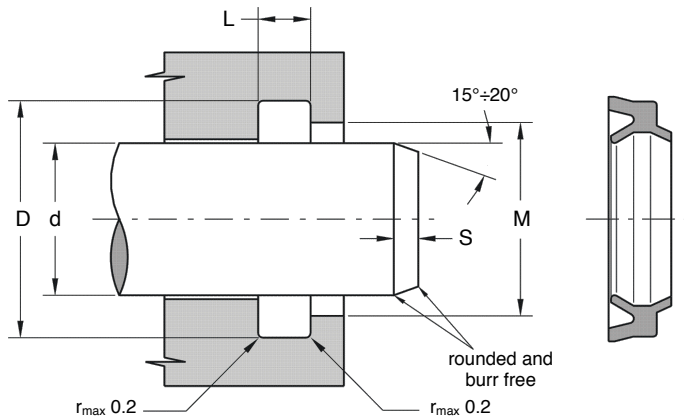
Dynamic surface	Ra ≤ 0.25 μm	Rt ≤ 2.5 μm
Static surface	Ra ≤ 0.8 μm	Rt ≤ 6.3 μm

LEAD-IN CHAMFERS

d	S _{MIN}
• less 20	3 mm
• 20÷50	4 mm
• 51÷150	5 mm
• over 150	6 mm

- to avoid damaging the sealing lips during installation, housing must have rounded chamfers. Sharp edges and burrs within the installation area of the seal must be removed

Part.	d ^{f7}	D ^{H10}	L ^{+0.2}	M
RBP 4 8.8 4	4	8.8	4.5	6
RBP 6 9.2 2.6	6	9.2	3	7.2
RBP 6 10.8 4	6	10.8	4.5	8
RBP 8 14 4	8	14	4.5	11
RBP 8 11.5 2.5	8	11.5	2.9	9.2
RBP 8 12.8 4	8	12.8	4.5	10



Part.	d ^{f7}	D ^{H10}	L ^{+0.2}	M
RBP 10 14 2.8	10	14	3.2	11.4
RBP 10 18 4.5	10	18	5	14
RBP 10 16.8 4	10	16.8	4.5	13
RBP 12 18 3.6	12	18	4	14.5
RBP 12 20 4.5	12	20	5	16
RBP 12 16.5 3.2	12	16.5	3.7	13.7
RBP 12 22 5	12	22	6	16
RBP 12 18.6 3.4	12	18.6	3.8	15
RBP 14 20 3.6	14	20	4	16.5
RBP 14 24 5	14	24	6	18
RBP 15 22 3.6	15	22	4	19
RBP 16 22 3.6	16	22	4	18.5
RBP 16 24 4.5	16	24	5	19
RBP 16 26 5	16	26	6	20
RBP 18 26 4.5	18	26	5	21
RBP 18 28 5	18	28	6	22
RBP 20 25 3.6	20	25	4	23
RBP 20 26 3.6	20	26	4	22.5
RBP 20 30 6	20	30	7	24

Part.	d ^{f7}	D ^{H10}	L ^{+0.2}	M
RBP 20 28.6 4.9	20	28.6	5.3	23
RBP 22 32 6	22	32	7	26
RBP 25 31 3.6	25	31	4	27.5
RBP 25 35 6	25	35	7	29
RBP 25 33.6 4.8	25	33.6	5.3	28
RBP 30 38 4.5	30	38	5	33
RBP 30 40 6	30	40	7	34
RBP 30 38.6 4.9	30	38.6	5.3	33
RBP 32 42 6	32	42	7	36
RBP 40 50 6	40	50	7	44
RBP 45 55 6	45	55	7	49
RBP 189 198.4 6.4	189	198.4	7	193