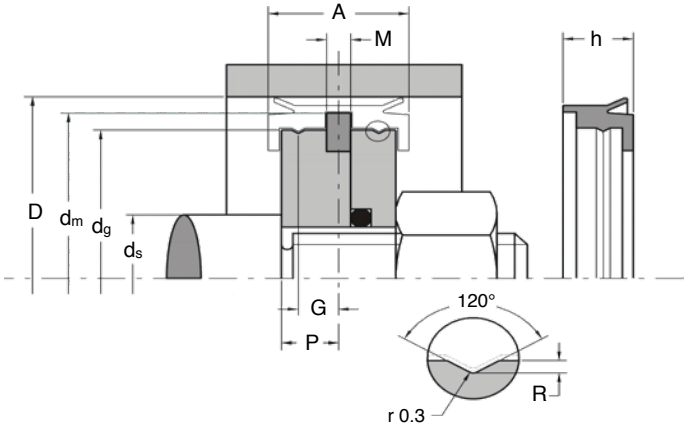
GPM

PISTON SEAL WITH MECHANICAL CUSHIONING



DESCRIPTION

Piston seal with mechanical cushioning for pneumatic cylinders

MATERIAL

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

MAIN FEATURES

The GPM is a single acting piston seal with guiding element and buffer for mechanical cushioning integrated. It is particularly suitable for short stroke cylinders and magnetic piston. Two GPM can be mounted “back to back” to get the double acting effect and the magnet is protected between them.
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.
Thanks to its design, the seal type GPM offers the following advantages:

- The guiding element of the piston is integrated
- Radial and axial slots ensure the retention of grease
- Inside the seal there is the space for magnet in case of “back to back” double acting assembly
- Low friction at all usage pressure
- Excellent wear-resistance
- Extended service life
- Geometry of the sealing lips is designed to operate with air lubricated and dry

FIELD OF APPLICATION

Pressure	≤ 20 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}	Angle
	•less 20	3 mm	15°÷20°
	20÷50	4 mm	15°÷20°
	51÷150	5 mm	15°÷20°
	•over 150	6 mm	15°÷20°

- 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

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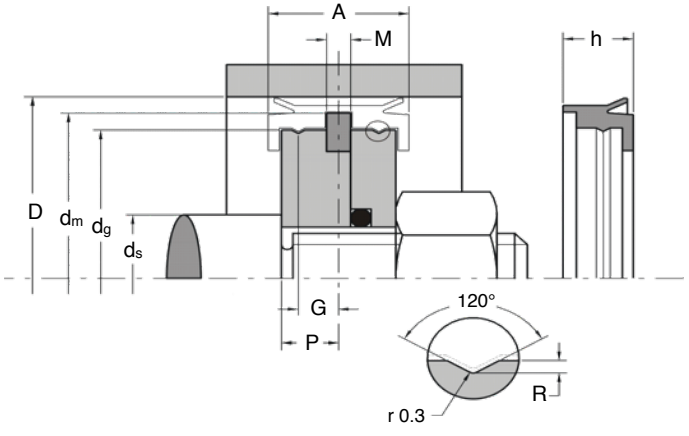

Part.	D H10	A	M	dm	G	dg h7	R	ds	h	P -0.1
GPM 32 26 7	32	14	5	29.5	4	26	0.5	12	7	5.4
GPM 40 34 7.25	40	14.5	5	37.5	4.25	34	0.5	12	7.25	6.0
GPM 50 43 7.25	50	14.5	5	46.5	4.25	43	0.6	16	7.25	5.9
GPM 63 55 10	63	20	5	59.5	6	55	0.8	16	10	8.4
GPM 80 72 11	80	22	5	76.5	6.5	72	0.8	20	11	9.4
GPM 100 90 13	100	26	5	96.5	7.5	90	0.8	25	13	10.9