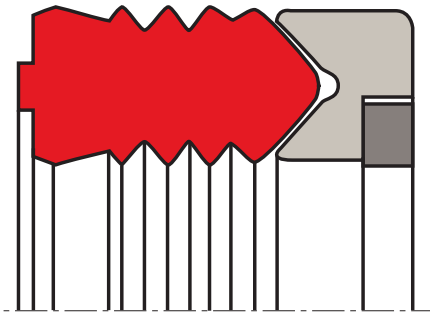


## rod seal S60

## seal spec



### description

the rod seal range has been designed to meet the needs of hydraulic equipments operating at high pressures and subjected to severe loading and vibration conditions. the main sealing element is manufactured in a highly compression set resistant nitrile. the most important quality of this element is the design of the multiple sealing lips for maximum sealing efficiency and end face configuration, which ensures that the S60 can tolerate vibrations and severe misalignment.

the support ring is made in cotton fabric reinforced nitrile elastomer; the "U" shape is energised when pressure is applied.

the last element is the anti-extrusion ring manufactured in POM.

### application



*not bolded symbols; please consult our technical for application limitations*

### category of profile

machined or molded/standard/trade product.

### single acting

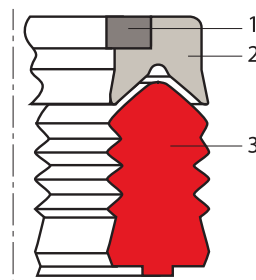
the S60 seal is designed for use as a rod seal.

### area of application: hydraulics

- media: hydraulic fluids, mineral oil-based hydraulic fluids, water and water/glycol emulsions
- earth-moving machines
- excavators
- lift platforms

### design

- 1) POM anti-extrusion ring.
- 2) support ring in cotton fabric reinforced nitrile, NBR 80 Shore A.
- 3) sealing element in nitrile, NBR 80 Shore A.



### advantages

- high sealing efficiency.
- effective sealing during vibration and shock loading.
- extrusion resistance at high pressure.

**operating parameters & material**

material			temperature	max. surface speed	max. pressure <sup>1</sup>
sealing element	support ring	back-up ring			
s-mart NBR (80 shore A)	NBR (fabric) 80 shore A	s-mart POM/PA <sup>2</sup>	-40 °C ... +130 °C	0,5 m/s	700 bar (70 MPa)

*the stated operation conditions represent general indications. it is recommended not to use all maximum values simultaneously. surface speed limits apply only to the presence of adequate lubrication film.*

<sup>1</sup> pressure ratings are dependent on the size of the extrusion gap.

<sup>2</sup> POM up to ø260 mm, PA above ø260 mm

**surface quality**

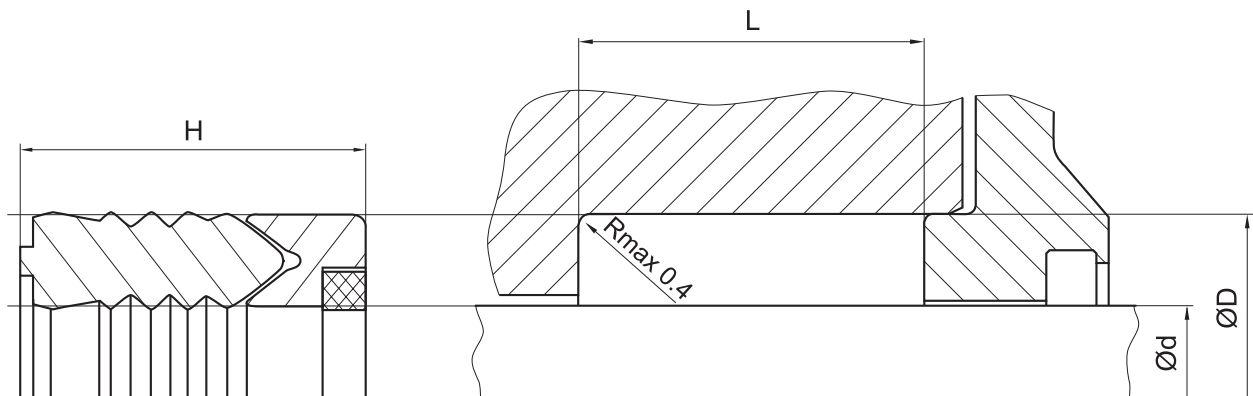
surface roughness	material	Rtmax [µm]	Rz DIN [µm]	Ra [µm]
mating surface	PTFE + .....	0.63 - 2.50	0.40 - 1.60	0.05 - 0.20
	PU & Rubber	1.00 - 4.00	0.63 - 2.50	0.10 - 0.40
groove surface		< 16	< 10.0	< 1.6

**tolerance recommendation**

seal housing tolerances	
Ød	h9
ØD	H10

**seal & housing recommendations**

*please note that we are able to produce those profiles to your specific need or any non standard housing. for detail measurements, please see seal-mart catalog...*



*don't hesitate to contact our technical department for further information or for special requirements (temperature, speed etc.), so that suitable materials and/or designs can be recommended.*