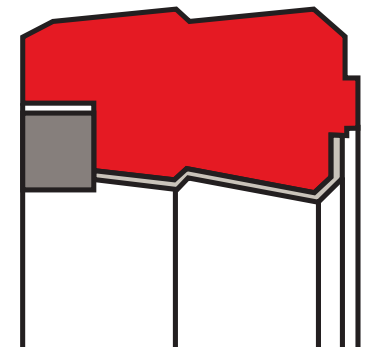


# rod seal S61

## seal spec



### description

S61 with second sealing edge on the dynamic and static sealing side as well as fabric reinforcement on the dynamic sealing side and back-up ring as a gap sealing component.

### application



not bolded symbols; please consult our technical for application limitations

### category of profile

machined or molded/standard/trade product.

### single acting

the S61 seal is designed for use as a rod seal.

### area of application: hydraulics

earth moving equipment, industrial vehicles, presses, mobile hydraulics.

### operating parameters & material

material		temperature	max. surface speed	max. pressure <sup>1</sup>
sealing element	back-up ring			
s-mart NBR (80 shore A)	POM / PA <sup>2</sup>	-20°C ... + 100°C	0,5 m/s	500 bar (50 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

### gap dimension:

Ød	max. permissible gap dimension			
	26 Mpa	32 Mpa	40 Mpa	50 Mpa
≤ 80	0,60	0,55	0,45	0,35
>80	0,65	0,60	0,60	0,40

### important note:

the above data are maximum value and can't be used at the same time. e.g. the maximum operating speed depend on material type, pressure, temperature and gap value. temperature range also dependent on medium.

### surface quality

surface roughness	Rtmax (µm)	Ra (µm)
running surface	≤ 2.5	0.05-0.30
bottom of groove	≤ 10	≤ 2
side of groove	≤ 15	≤ 3.0

### tolerance recommendation

seal housing tolerances nominal Ød ≤ 180	
Ød	f8
ØD	H11

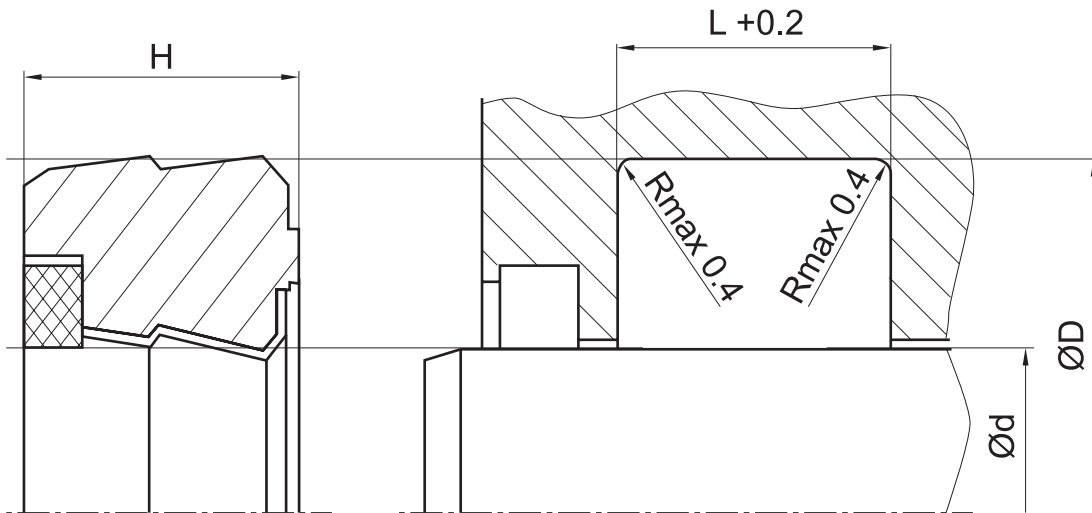


#### fitting & installation

careful fitting is a prerequisite for correct function of the seal.

#### 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.*