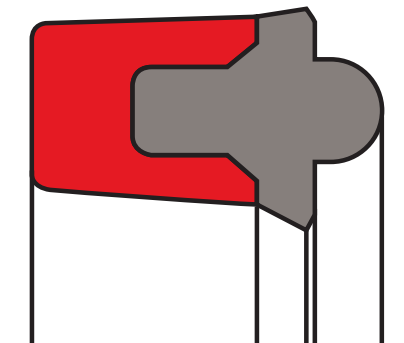


## rod seal S68

## seal spec



### description

the profile S68 rod seal is a compact seal consisting of a fabric reinforced „U“-ring with an integral rubber sealing part. the sealing edges at the rubber part wipes off the film of liquid on the rod surface due to their radial preload. therefore an excellent sealing performance will be achieved, even at low pressures or in case of zero pressure movements of the rod. higher pressures will be transferred to the fabric reinforced „U“-ring, which, due to its stability, will prevent extrusion.

### application



### category of profile

molded/standard/trade product or machined with minor design change.

### single acting

the S68 seal is designed for use as a rod seal.

### area of application: hydraulics

mainly for the sealing of plungers, piston rods, valve slides. also suitable for valve spools and rotating oil conducts.

### operating parameters & material

material		temperature	max. surface speed	max. pressure <sup>1</sup>
sealing element	back-up ring			
s-mart NBR	NBR (fabric)	-30°C ... + 100°C	0,5 m/s	250 bar (25 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.

### gap dimension

cs = (ØD - Ød)/2 [mm]	max. permissible gap dimension		
	10 Mpa	20 Mpa	25 Mpa
< 7,5	0,3	0,25	0,2
≥ 7,5	0,4	0,3	0,25

### 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	≤ 0,6
bottom of groove	≤ 6,3	≤ 1,6
side of groove	≤ 15	≤ 4,0

### tolerance recommendation

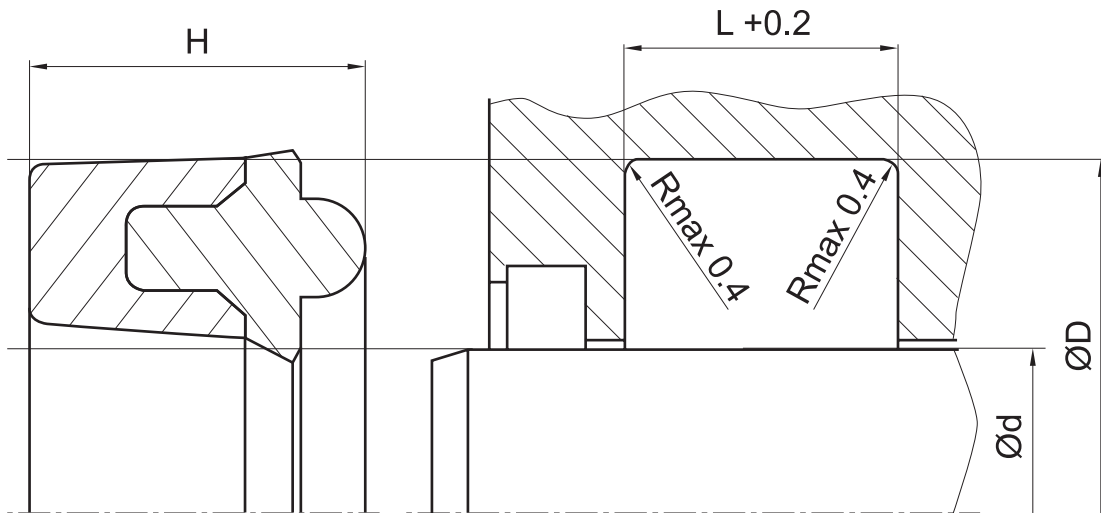
seal housing tolerances	
Ød	f7
ØD	H9

**fitting & installation**

when specifying the sealing area, it must be taken into consideration that the pressure can fully act upon the seal. therefore, there must be some clearance in the axial direction. to avoid damage to the sealing edges, care should be taken that the seals are not drawn over sharp edges during installation.

**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.*