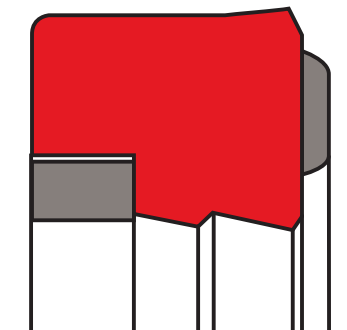


rod seal S69

seal spec



description

the profile S69 rod seal is a sealing element of compact design with a special anti-extrusion ring.

the main advantages of this combination are smooth running, excellent sealing performance and high wear resistance, even under exceptionally hard working conditions. these rod seals guarantee a leakfree performance even at low pressures or when rod movement occurs without pressure.

application



not bolded symbols; please consult our technical for application limitations

category of profile

molded/standard/trade product only.

single acting

the S69 seal is designed for use as a rod seal.

area of application: hydraulics

operating parameters & material

material		temperature	max. surface speed	max. pressure ¹
sealing element	back-up ring			
s-mart NBR (88 Shore A)	s-mart PTFE virgin	-30°C ... + 110°C	0.5 m/s	315 bar (31,5 MPa)

gap dimension

Ød	max. permissible gap dimension	
	26 Mpa	32 Mpa
< 80	0,55	0,5
≥ 80	0,6	0,55

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]
sliding surface	≤ 2.5	≤ 0.6
bottom of groove	≤ 6.3	≤ 1.6
groove face	≤ 15	≤ 4.0

tolerance recommendation

seal housing tolerances	
Ød	f7
ØD	H9

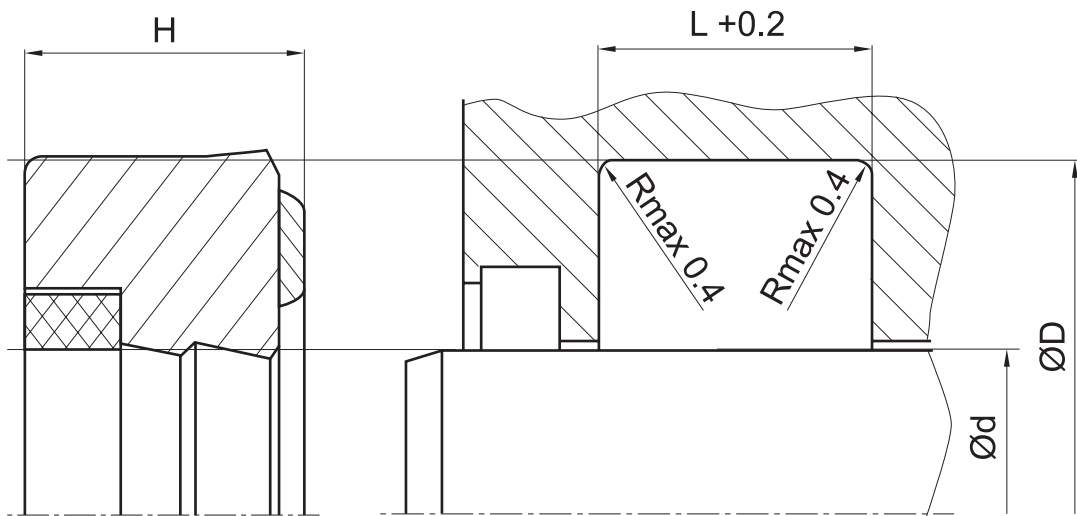
fitting & installation

this rod seal profile R69 is manufactured with a slightly oversized outer diameter, thus ensuring a tight fit in the groove. the preload at the inner diameter necessary for the functioning of the seal will only be generated after installation. the working life of the seal is mainly influenced by the max. gap at the pressure-opposite of the sealing element.



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.