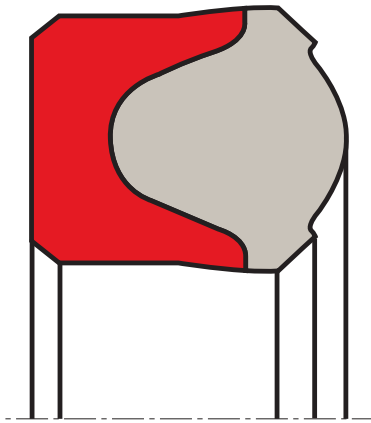


rod seal S70

seal spec



description

single-piece rod seal with a rubber head set in the fabric part.

application



not bolded symbols; please consult our technical for application limitations

category of profile

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

single acting

the S70 seal is designed for use as a rod seal.

area of application: hydraulics

standard cylinders, telescopic cylinders, machine tools, spindle seals.

advantages

compact rod seal, also for standardised housings according to ISO 5597

- easy to fit
- excellent sealing effect also in the
- lower pressure range
- low friction due to the fabric part

operating parameters & material

material		temperature	max. surface speed	max. pressure ¹
sealing element	back-up ring			
s-mart NBR (70 Shore A)	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.

¹ pressure ratings are dependent on the size of the extrusion gap.

surface quality

surface roughness	Rtmax [µm]	Ra [µm]
sliding surface	≤2,5	0,05-0,3
bottom of groove	≤6,3	≤1,6
groove face	≤15	≤3

**gap dimension**

profile ($\varnothing D - \varnothing d$)/2 mm	max. permissible gap dimension	
	16 Mpa	25 Mpa
≤ 6	0,20	0,10
$>6 \dots 10$	0,20	0,10
$>10 \dots 15$	0,20	0,10

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.

tolerance recommendation**seal housing tolerances**

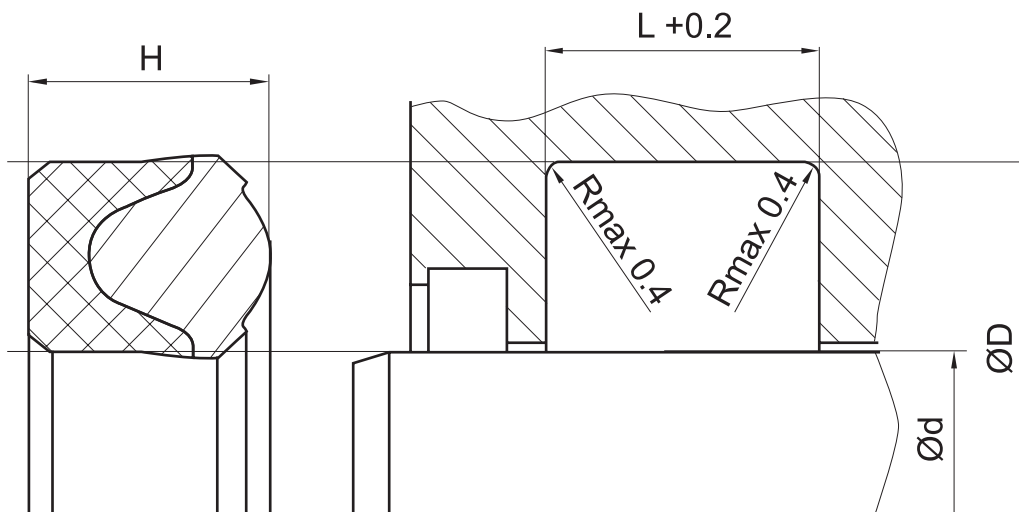
$\varnothing d$	f8
$\varnothing D$	H11

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.