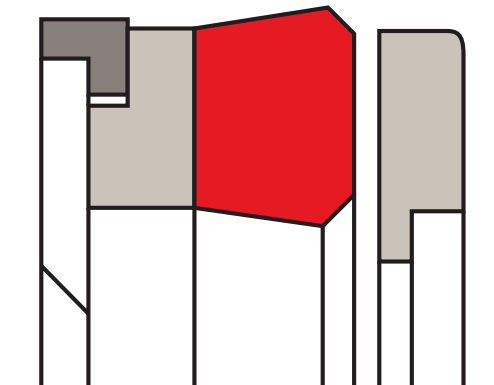


## piston seal K80

## seal spec



### description

asymmetric piston seal for standard applications.

### 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 K80 seal is designed for use as a piston seal - either single or double acting where two seals are used 'back to back'

### operating parameters & material

material			temperature	max. surface speed	max. pressure <sup>1</sup>
sealing element	energizer	back-up ring			
s-mart NBR	NBR-inpregn. fabric	s-mart POM	-30 °C ... +100 °C	0,5 m/s	400 bar (40 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.

### surface quality

surface roughness	Rtmax (µm)	Ra (µm)
sliding surface	≤ 3.0	≤ 0.3
bottom of groove	≤ 10.0	≤ 1.8
groove face	≤ 16	≤ 3.0

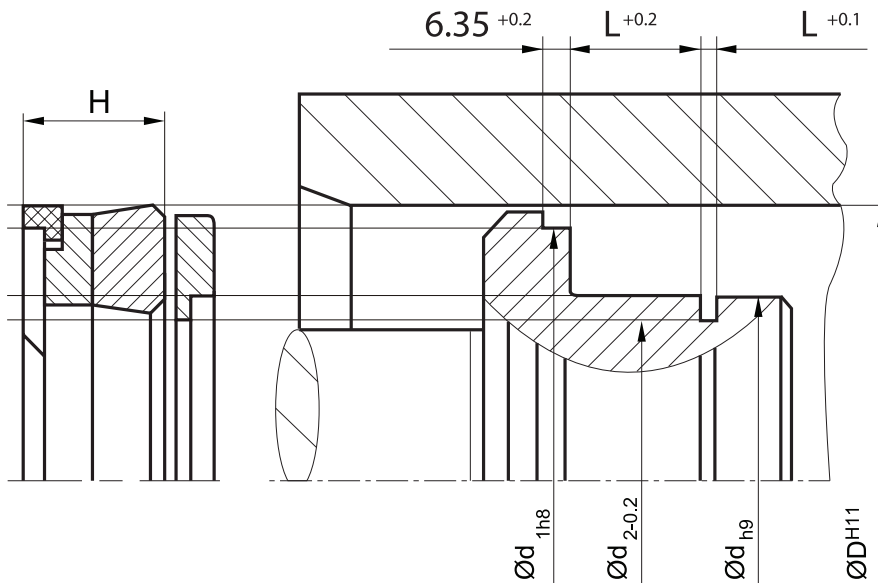
### tolerance recommendation

seal housing tolerances	
Ød	h9
Ød1	h8
ØD	H11



**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.*