

piston seal K77

seal spec



description

the piston seal K77 can be pressurised on both sides with grooves on the front side for pressure activation.

application



category of profile

machined or molded/standard/trade product.

double acting

the K77 seal is designed for use as a piston seal.

area of application: pneumatic

short-stroke cylinders

advantages

- the compact design permits short piston designs.
- the rounded sealing profile and the flexible centre part give good tightness with low friction and maintain an effective lubricating film.

operating parameters & material

material	temperature	max. surface speed	max. pressure ¹
s-mart NBR (72 Shore A)	-20°C ... + 100°C	1 m/s	10 bar (1,0 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 attention: not suitable for mineral oils!

surface quality

surface roughness	Rtmax (µm)	Ra (µm)
cylinder barrel	≤ 4.0	≤ 0.5
bottom of groove	≤ 10.0	≤ 0.5

tolerance recommendation

seal housing tolerances	
Ød	h10
ØD	H11

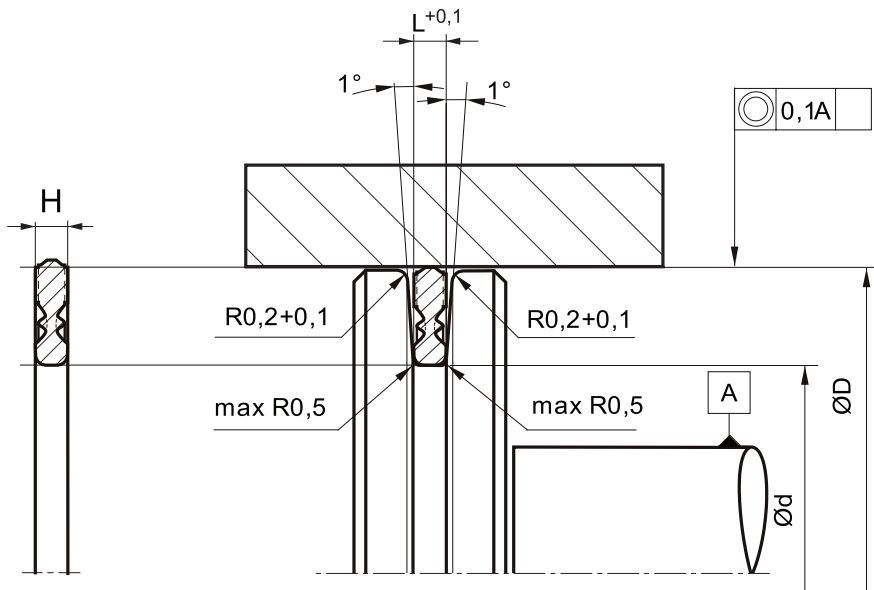
fitting & installation

careful fitting is a prerequisite for the correct function of the seal. the K77 is snapped over the de-burred housing edge into the housing groove.



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.