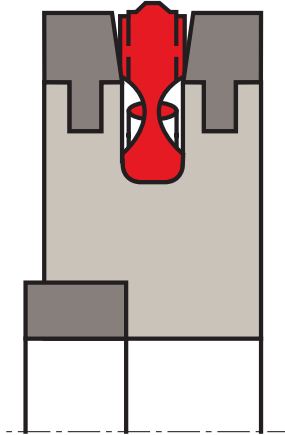


piston seal K72

seal spec



description

the piston K72 with light alloy/polyamide body, snap-action seal and integrated guide.

application



not bolded symbols; please consult our technical for application limitations

category of profile

molded/standard/trade product only.

double acting

the K72 seal is designed for use as a piston seal.

area of application: pneumatic

pneumatic cylinder without request, frequent special cylinder.

advantages

- ready to fit merkel complete piston with very low height to which pressure can be applied on both sides.
- easily fastened to the piston rod.
- integrated static seal on the inside diameter.

operating parameters & material

material				temperature	max. surface speed	max. pressure ¹
sealing element	base plate	guide ring	static seal			
s-mart NBR (72 Shore A)	s-mart POM	s-mart PA	NBR 72 Shore A	-20 °C ... +100 °C	1,0 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 pressure ratings are dependent on the size of the extrusion gap.

surface quality

surface roughness	Rtmax (µm)	Ra (µm)
cylinder bore	≤ 4.0	≤ 0.5

tolerance recommendation

seal housing tolerances	
Ød	f8
ØD	H11



fitting & installation

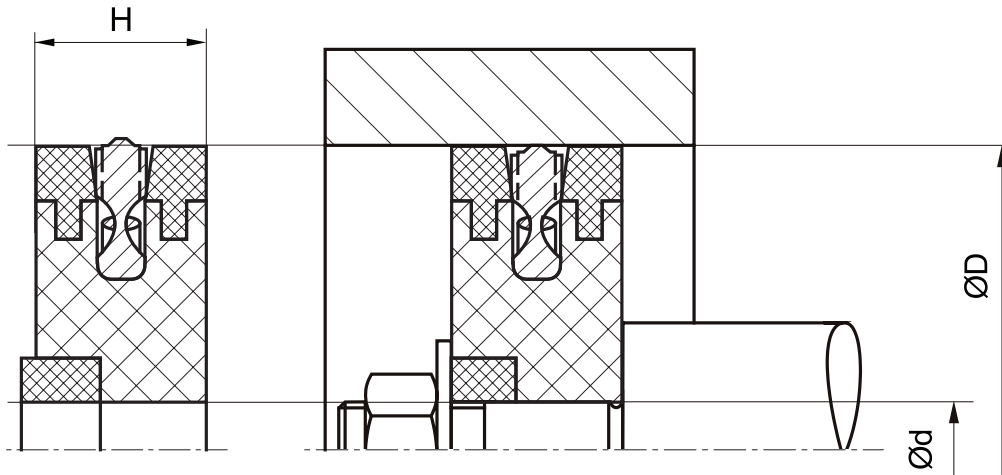
prior to installation in the cylinder, grease all cylinder contact surfaces evenly. do not introduce any grease into the piston groove.

design notes

careful fitting is a prerequisite for the correct function of the seal. the complete piston is fitted to shouldered end of the piston rod and fastened with washers (up to and including $\varnothing 25$ DIN 125 \geq $\varnothing 25$ DIN 1440) and a nut. the threaded fitting is to be protected against loosening.

seal & housing recommendations

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.