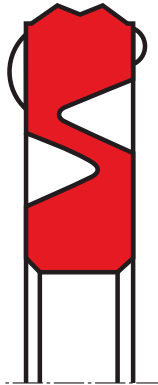


piston seal K75

seal spec



description

the profile K75 pneumatic cylinder seal has been developed for use in pneumatic cylinders and in valves. the double-acting cylinder seal requires only small housing dimensions. low friction cylinder seal with two micro sealing edges and grease deposit in between.

- good sealing performance in small installation grooves
- smooth running thanks to optimum lubricant-retaining sealing lip geometry.
- low static and dynamic friction thanks to smallest possible sections.
- for use in dry air and oil-free air. initial lubrication on assembly is essential for long service life.
- easily assembly in simple grooves.

application



category of profile

machined or molded/standard/trade product.

double acting

the K75 seal is designed for use as a piston seal.

area of application: pneumatic

medium: lubricated air as well as dry air and oil-free air (after initial lubrication on assembly).

operating parameters & material

material	temperature	max. surface speed	max. pressure ¹
s-mart NBR (71 Shore A)	-20°C ... + 100°C	1 m/s	12 bar (1,2 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)
sliding surface	≤2,5	≤ 0,28-0,6
bottom of groove	≤6,3	≤1,59
groove face	≤15	≤4

tolerance recommendation

seal housing tolerances	
Ød	h9
ØD	H11

fitting & installation

the profile K75 pneumatic piston seals can be easily mounted into the grooves by simply pulling them over the piston.

to avoid damaging the seal, sharp edges should be removed from the piston and the cylinder tube.

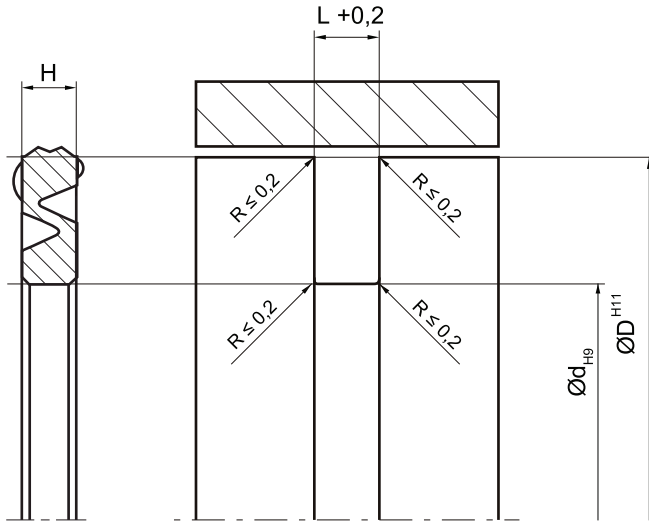
for non-lubricated conditions, it is important to obtain a full lubrication film inside the cylinder tube prior to assembly to ensure long service life of the seal.

for piston guidance, we recommend our profile F01 piston guidance tape. for dimensions of pistons and clearances, please refer to our profile F01.



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.