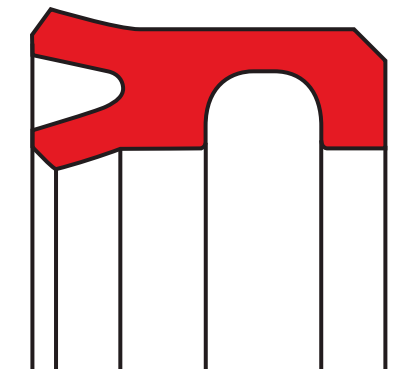


piston seal K74

seal spec



description

the profile K74 pneumatic piston seal is a U-ring with an integral guiding surface for single acting pistons.

application



category of profile

molded/standard/trade product only.

single acting

the K74 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).

advantages

- no metallic contact between piston and cylinder which prevents scoring, especially in the case of light metal and plastic cylinders.
- smooth running thanks to optimized sealing lip geometry retaining the lubrication film, and the proper choice of elastomer compounds.
- for use in dry and oil-free air. initial lubrication on assembly is essential for long service life.
- the profile K74 piston seal can also be mounted on double-acting pistons using the same housings as profile K73. however, for optimum utilization of the full length of the stroke, the piston design should conform to our illustration (left-hand).
- easy assembly on one piece piston.

because of its geometry, exposure of this seal profile to side loads must be avoided.

operating parameters & material

material	temperature	max. surface speed	max. pressure ¹
s-mart NBR (78 Shore A)	-30°C ... + 80°C	1 m/s	16 bar (1,6 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

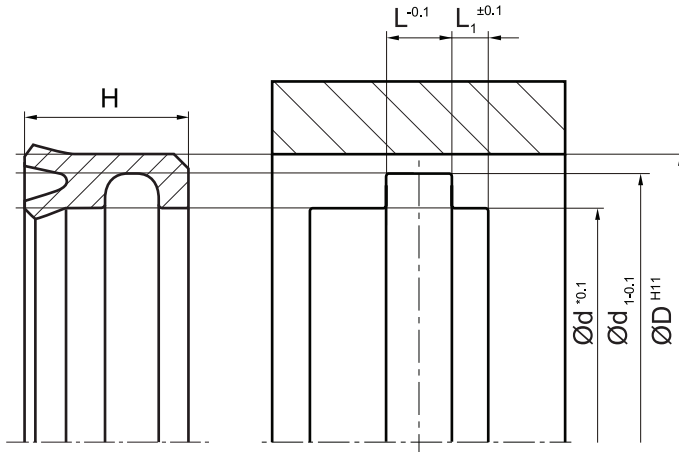


fitting & installation

the profile K74 pneumatic cylinder seals can be easily mounted by pulling them over the one-piece piston. care should be taken that all edges are chamfered to avoid seal damage.

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.