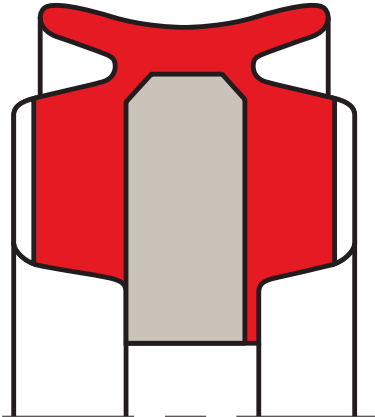


piston seal K70

seal spec



description

the piston K70 with steel base plate, vulcanised buffers and sealing lips with special pneumatic sealing edges. ready to install this piston with integrated guide that can be pressurised on both sides.
it performs three functions: sealing, guiding, and cushioning.

application



not bolded symbols; please consult our technical for application limitations

category of profile

molded/standard/trade product only.

double acting

the K70 seal is designed for use as a piston seal.
complete piston with end cushioning for double-acting pneumatic cylinders, provided that no excessive lateral guidance loads will occur (long strokes and buckling).

area of application: pneumatic

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

advantages

- vulcanised buffers for end-position damping of piston in the cylinder.
- radial venting passages for reliable pressure application at the end of the stroke.
- simple fixing at the piston rod without additional sealing requirements.
- immediate response (full pressure load) thanks to integrated venting channels.
- low friction and smooth running due to sealing lip geometry retaining the lubrication film.
- can be used in lubricated air as well as in oil-free air (after initial lubrication on assembly).

operating parameters & material

material		temperature	max. surface speed	max. pressure ¹
sealing element	base plate			
s-mart NBR (71 Shore A)	metal (mild steel)	-30 °C ... +100 °C	1,0 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 pressure ratings are dependent on the size of the extrusion gap.

surface quality

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



tolerance recommendation

seal housing tolerances

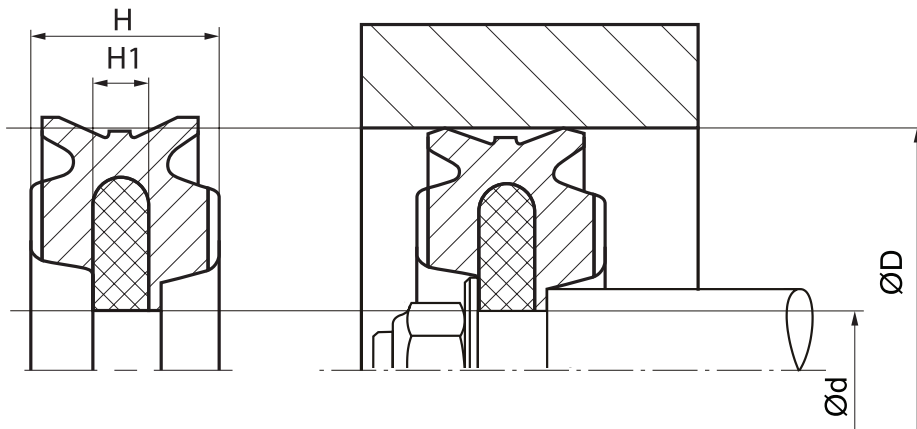
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fitting & installation

the profile K70 pneumatic complete piston should be fixed to the piston rod with a locknut to avoid loosening. for use with dry and oil-free air, the piston and cylinder tube must be prelubricated with a suitable long-life lubricant.

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.