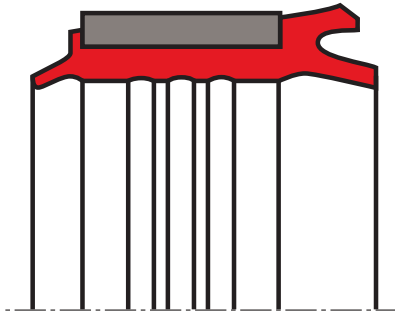


wiper A67

seal spec



description

the profile A67 pneumatic rod seal, wiper and guidance system is used for rods in pneumatic cylinders. it combines the following functional features: sealing, wiping, fixing.

application



category of profile

molded/standard/trade product only.

double acting

area of application: pneumatic

medium:

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

advantages

- economical to manufacture, no recess required.
- low storage costs, only one part required instead of three as with conventional designs.
- easy installation (simple assembly tool).
- low friction coefficients and long working life is achieved with the special geometry of the sealing and scraping lip. the bearing area of the guiding part is equipped with grooves which can store a large amount of grease for initial lubrication.
- to be used with dry air and air free from oil after initial lubrication on assembly.

operating parameters & material

material		temperature	running surface speed	max. pressure
sealing element	energizer			
s-mart PU	aluminium	-35°C ... + 80°C	≤ 1.0 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 pressure ratings are dependent on the size of the extrusion gap.

surface quality

surface roughness	Rtmax (µm)	Ra (µm)
sliding surface	according to seal data	
bottom of groove	≤6,3	≤1,6
groove face	≤15	≤ 4.0

**tolerance recommendation****seal housing tolerances**

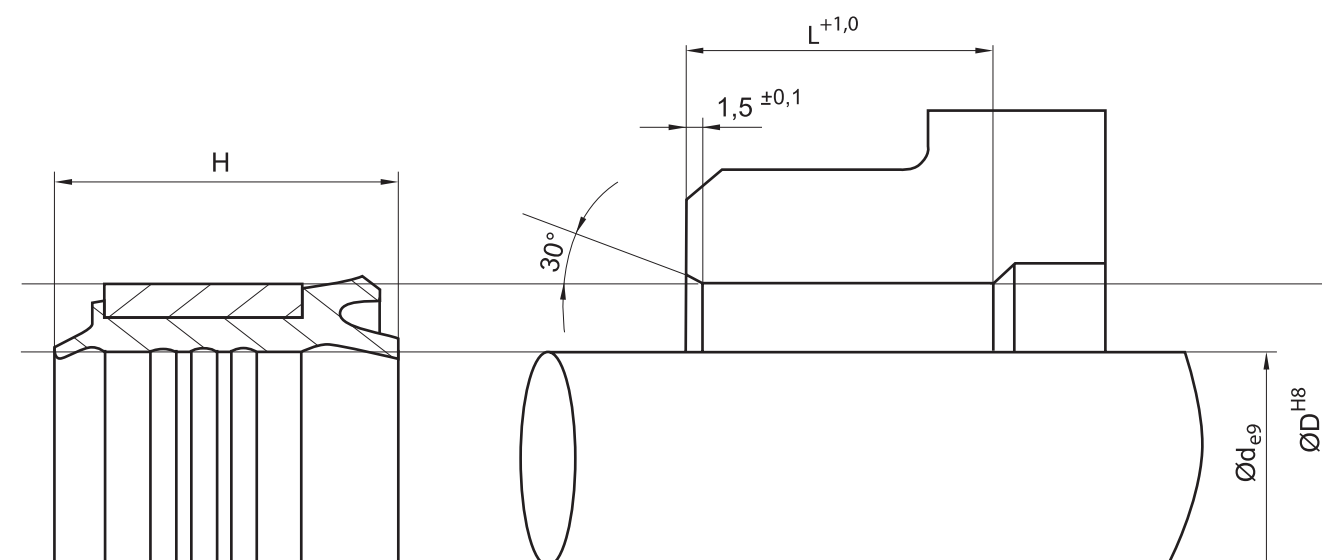
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fitting & installation

profile A67 is pressed into the bore and retained by a press fit between cylinder housing and an aluminum ring. care should be taken that neither the scraper nor the sealing lips are damaged by sharp edges during installation. when pressing the sealing element into the groove, pressure should only be put upon the metal part. during a normal cylinder life span, replacement is not necessary. however, disassembly is possible after dismounting the cylinder head and forcing out the seal.

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.