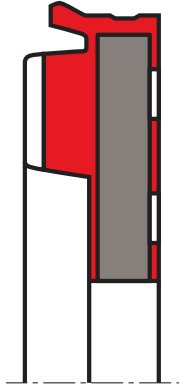


# piston seal K71

## seal spec



### description

the profile K71 is a complete pneumatic piston with a cup seal and a vulcanized metal disc support.  
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.

### single acting

the K71 seal is designed for use as a piston seal.

complete piston for single-acting pneumatic cylinders with end cushioning, 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

- 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 thanks 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 <sup>1</sup>
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.

<sup>1</sup> 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
bottom of groove	≤ 10.0	≤ 0.5



#### tolerance recommendation

##### seal housing tolerances

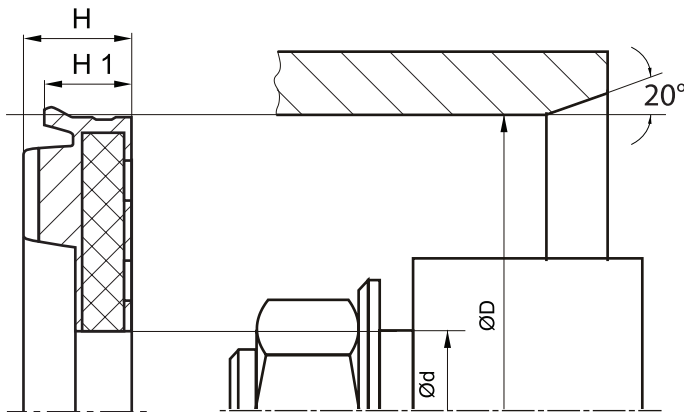
$\varnothing d$	h10
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#### fitting & installation

the profile K71 complete piston is 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.