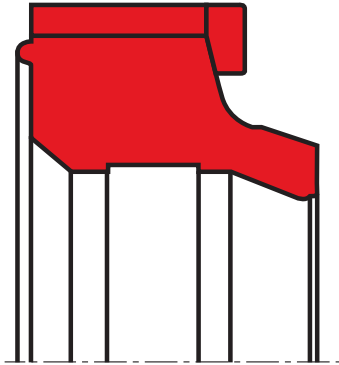


# cushioning A71

## seal spec



### description

the profile A71 pneumatic cushioning/damper seal is specially designed for cushioning spears in pneumatic cylinders.

### application



### category of profile

machined or molded/standard/trade product.

### area of application: pneumatic

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

### advantages

- as the seal functions as a check valve, no separate valve is necessary.
- optimum use of design related cushion travel.
- high cushioning consistency due to automatic of misalignment of the cushioning spear to the cylinder head.
- increased reliability due to two independent sealing systems (flexible sealing lips and axial sealing areas).
- easy manual snap assembly.

### operating parameters & material

material	temperature	max. surface speed	max. operating pressure <sup>1</sup>
s-mart NBR (90 shore A)	-20°C ... + 80°C	≤ 1.0 m/s	16 bar (1,6 Mpa)
s-mart PU (94 shore A)	-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.

<sup>1</sup> 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
side of groove	≤ 15	≤ 4.0

### tolerance recommendation

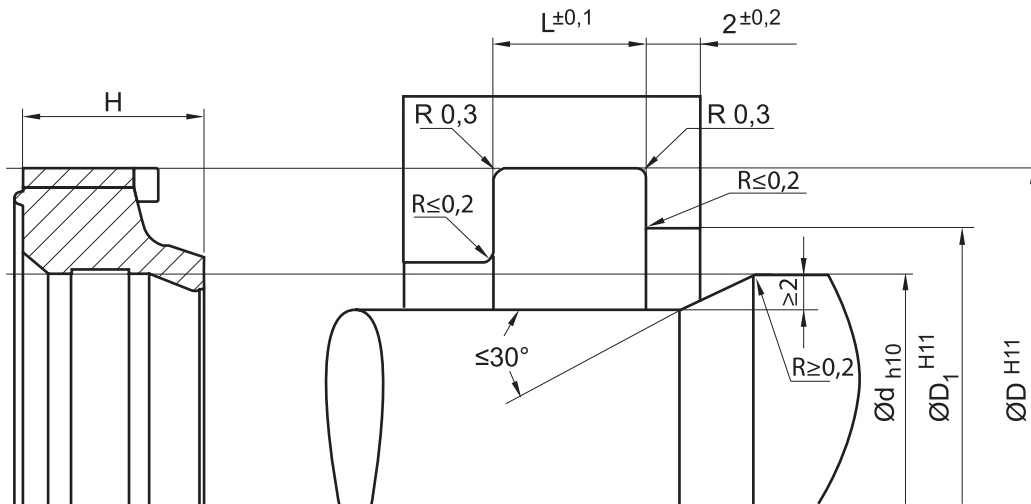
seal housing tolerances	
d	h10
D	H11
D1	H11

**fitting & installation**

the profile A71 cushioning seals are easily snapped into the groove, which should be free of all contaminants and foreign particles before installation. care should be taken that the sealing lips are not damaged by sharp edges during installation. initial lubrication is essential for very long service life.

**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.*