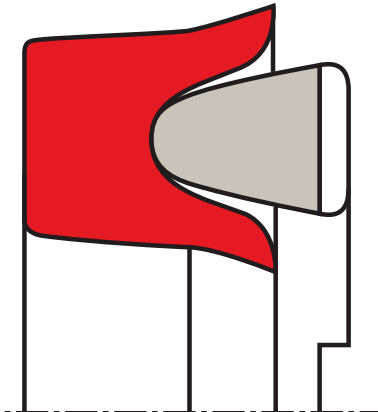


# piston seal K66

## seal spec



### description

the profile K66 piston sealing set is particularly suitable for double-acting pistons because of its low height.

### application



not bolded symbols; please consult our technical for application limitations

### category of profile

molded/standard/trade product or machined with minor design change.

### single acting

the K66 seal is designed for use as a piston seal - either single or double acting where two seals are used 'back to back'

### area of application: hydraulics

### advantages

- simple installation in split pistons
- cylinder diameter dimensions according to ISO 3320. non-standard sizes are found on the following pages.
- suitable for commercially available mineral oils; other compounds are also available for synthetic media, emulsions and brake fluids.
- with a rubber header use as a rod seal is also possible.

### operating parameters & material

diameter range: up to 400 mm

material		temperature	max. surface speed	max. pressure <sup>1</sup>
sealing element	back up ring			
NBR-based hard fabric reinforced rubber (NBR (fabric))	NBR or POM	-40°C ... + 100°C	0,5 m/s	250 bar (25 MPa)

### important note:

the above data are maximum values and cannot be used at the same time. e.g. the maximum operating speed depends on material type, pressure, temperature and gap value. temperature range also dependent on medium.

<sup>1</sup> pressure ratings are dependent on the size of the extrusion gap.

### surface quality

surface roughness	Rtmax (µm)	Ra (µm)
sliding surface	≤2,5	≤ 0.6
bottom of groove	≤6,3	≤ 1.6
groove face	≤15	≤ 4.0



#### tolerance recommendation

##### seal housing tolerances

$\varnothing d$	h11
$\varnothing D$	H9

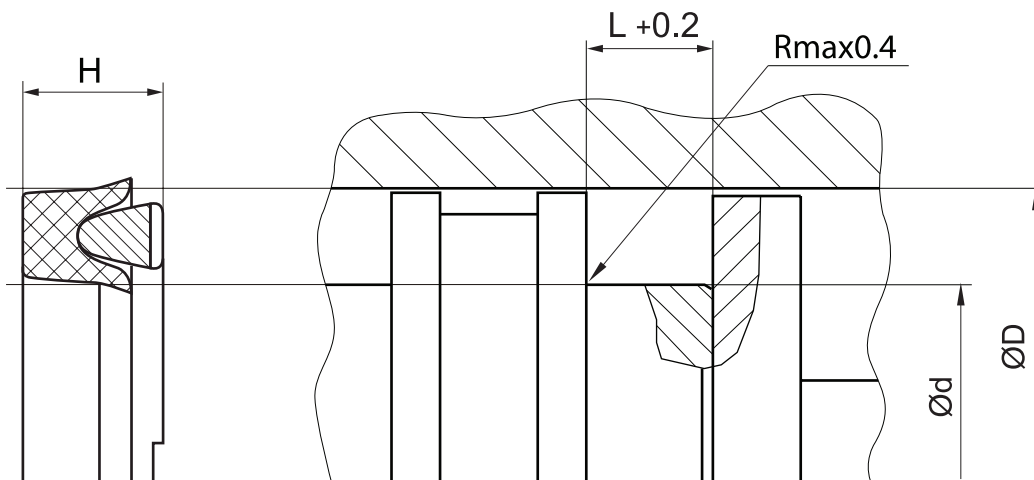
#### fitting & installation

the profile K66 piston sealing set is normally delivered with a flexible header ring. this header ring is fitted as a complete NBR-ring or open, cut to the required length. we reserve the right to supply plastic header rings instead of rubber. in special cases, round cord may be fitted instead of header rings. a split piston is necessary for the assembly.

to avoid free movement of the seal the groove length must correspond to the seal set's height. an axial preload suited to the particular application may be applied.

#### 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.*