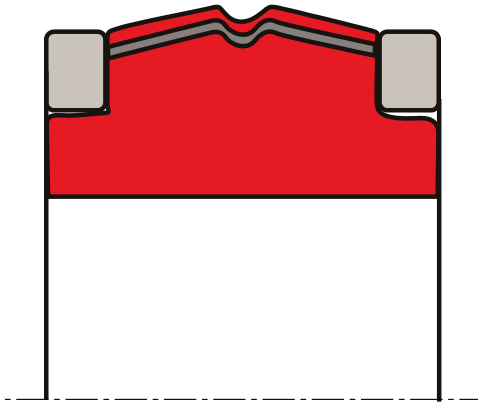


piston seal K23-SB

seal spec



description

three-piece K23-SB consisting of a fabric reinforced elastomeric sealing element and two guide back-up rings as gap sealing component.

application



not bolded symbols; please consult our technical for application limitations

category of profile

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

double acting

double-acting piston seal, preferably for spare parts requirement.

area of application: hydraulics

earth moving equipment, agricultural machinery, cranes, standard cylinders.
we recommend more modern series for new designs.

operating parameters & material

for hydraulic components in mineral oils or medium with good lubricating performance.

material			temperature	max. surface speed	max. pressure ¹
sealing element	energizer	back-up ring			
NBR (fabric)	NBR 80 Shore A	s-mart POM ²	-35 °C ... +100 °C	0,5 m/s	500 bar (50 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.

² POM up to ø260 mm, PA above ø260 mm

surface quality

surface Roughness	Rtmax [µm]	Ra [µm]
running surface	≤ 2.5	0.05-0.30
bottom of groove	≤ 6.3	≤ 1.6
side of groove	≤ 15	≤ 3.0

**gap dimension**

operating pressure (Mpa)	max. permissible gap dimension	
	$\varnothing D \leq 80\text{mm}$	$\varnothing D > 80\text{mm}$
26	0,60	0,65
32	0,55	0,60
40	0,45	0,50
50	0,35	0,40

important note:

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

tolerance recommendation

the admissible gap width, tolerances, guide play and deflection of the guide under load are to be taken into account when designing \varnothing piston.

seal housing tolerances

nominal $\varnothing D \leq 320$

$\varnothing d$ h11

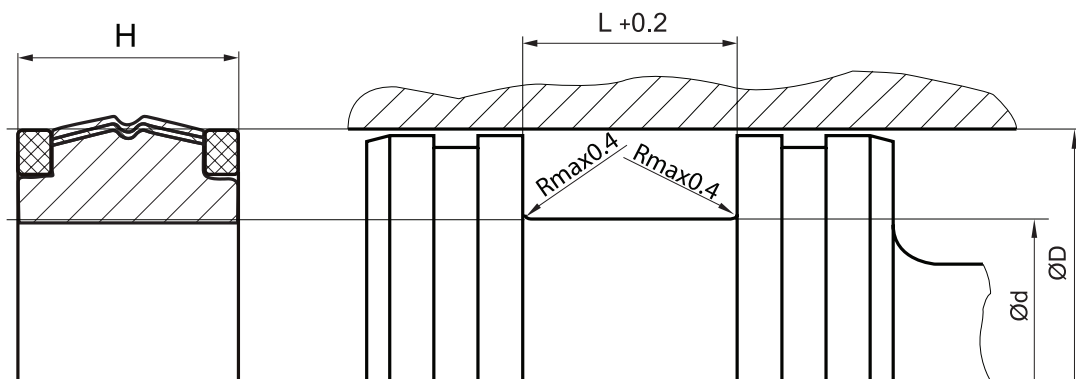
$\varnothing D$ H11

fitting & installation

Careful fitting is a prerequisite for the correct function of 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.