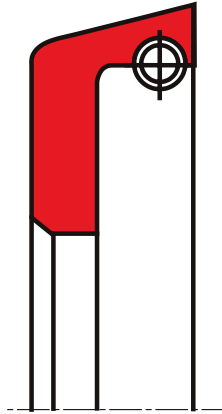


piston seal K16-SA

seal spec



description

spring-loaded lip seal. clamping flange for axial fixing in the housing.

application



category of profile

molded/standard/trade product only.

double acting

the K16-SA 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

single-acting piston seal for secondary applications and for spare parts requirement.

operating parameters & material

material		temperature	max. surface speed	max. pressure ¹
sealing element	spring			
NBR 88 Shore A	spring	-30°C ... + 100°C	1,0 m/s	10 bar (1 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.

¹ pressure ratings are dependent on the size of the extrusion gap.

gap dimension

the largest gap dimension occurring on the non-pressurised side of the seal in operation is of vital importance for the function of the seal. (x2 ≤0,5).

surface quality

surface roughness	Rtmax (µm)	Ra (µm)
sliding surface	≤2,5	≤0,1-0,5
bottom of groove	≤6,3	≤1,6
groove face	≤15	≤3

**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 $\varnothing D \leq 550$

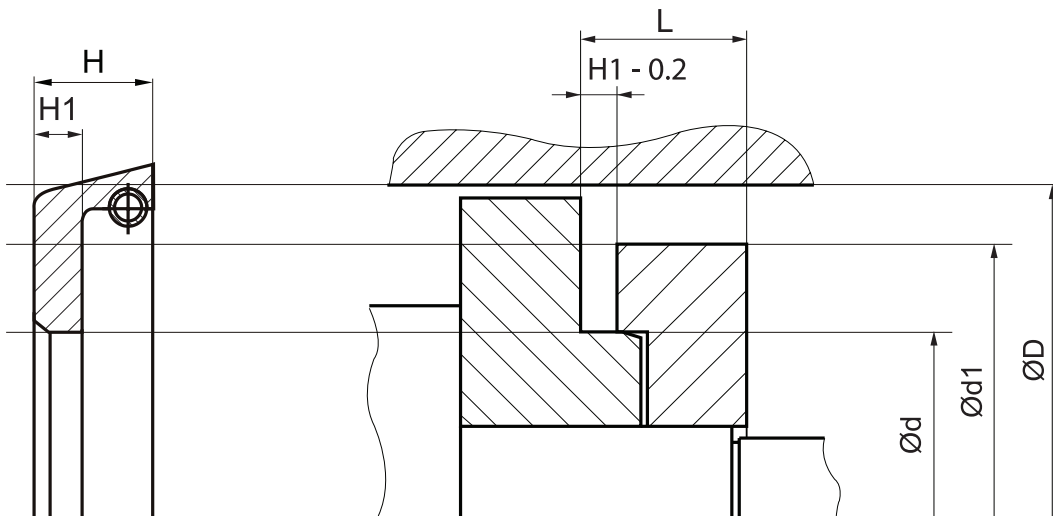
$\varnothing d$	h10
$\varnothing D$	H11

fitting & installation

the axial compression of the flange should be max. 10% of its thickness. torque limiting is to be used. the metal clamping parts must not apply any force to the transition zone from clamping flange to sealing lip. to improve the fixing of the cup packing and sealing effect on the flat clamping side, the turning of one or two sealing grooves is recommended.

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.