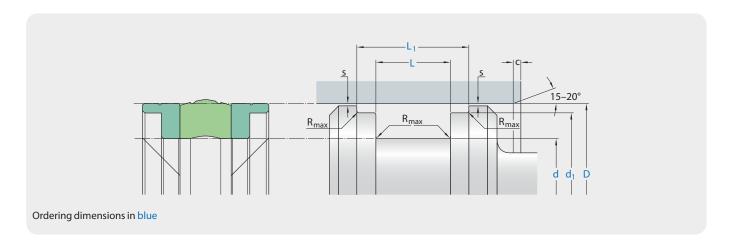


K17-R



Surface roughness	R _{tmax}	R _a		
Sliding surface	\leq 2,5 μm	0,05-0,2 μm		
Bottom of groove	≤ 6,3 µm	≤ 1,6 µm		
Groove face	≤ 15 µm	\leq 3 μm		
Bearing area: 50–95% and a cutting depth of 0,5 R $_{\rm z}$ based on $\rm C_{ref}\!=\!0\%$				

ncl.	d h9	d ₁ h8	+ 0,2	L ₁	R _{max}	С	s*
0 0 20	D-8 D-10 D-15	D-3 D-3 D-4	10 10 15	18 18 23	0,4 0,4 0,4	4 4 5	0,39 0,39 0,52
00 00 00	D – 20 D – 25 D – 30	D-5 D-6 D-8	20 25 30	33 39 44	0,4 0,4 0,4	6 8,5 10	0,65 0,78 1,00
	0 0 20 00 00	0 D-8 0 D-10 20 D-15 00 D-20 00 D-25	0 D-8 D-3 0 D-10 D-3 20 D-15 D-4 00 D-20 D-5 00 D-25 D-6	0 D-8 D-3 10 0 D-10 D-3 10 20 D-15 D-4 15 00 D-20 D-5 20 00 D-25 D-6 25	0 D-8 D-3 10 18 0 D-10 D-3 10 18 20 D-15 D-4 15 23 00 D-20 D-5 20 33 00 D-25 D-6 25 39	0 D-8 D-3 10 18 0,4 0 D-10 D-3 10 18 0,4 20 D-15 D-4 15 23 0,4 00 D-20 D-5 20 33 0,4 00 D-25 D-6 25 39 0,4	0 D-8 D-3 10 18 0,4 4 0 D-10 D-3 10 18 0,4 4 20 D-15 D-4 15 23 0,4 5 00 D-20 D-5 20 33 0,4 6 00 D-25 D-6 25 39 0,4 8,5

application





not bolded symbols; please consult our technical for application limitations

material		max. surface	may process 1	budrolucio	drumpaina	oor rosistopso	
sealing element	back-up ring	temperature	speed	max. pressure ¹	hydrolysis	dry running	wear resistance
Ecorubber 1	Ecotal/Ecomid ²	-30 °C +100 °C	0,5 m/s	250 bar (25 MPa)	-	-	Ο
Ecorubber 2	Ecoflon 2	-20 °C +200 °C	0,5 m/s	250 bar (25 MPa)	-	-	0
Ecorubber 2	Ecopaek	-20 °C +200 °C	0,5 m/s	250 bar (25 MPa)	-	-	0

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 Ecotal up to Ø260 mm, Ecomid above Ø260 mm.
- ++ ... particularly suitable o ... conditional suitable
- + ... suitable ... not suitable

for detailed information regarding chemical resistance please refer to our "list of resistance". for increased wear resistance and higher pressure range polyurethane materials are to be preferred, attention should be paid to restrictions in chemical and thermal resistance. for higher gliding speeds another sealing system should be used (e.g. PTFE materials).

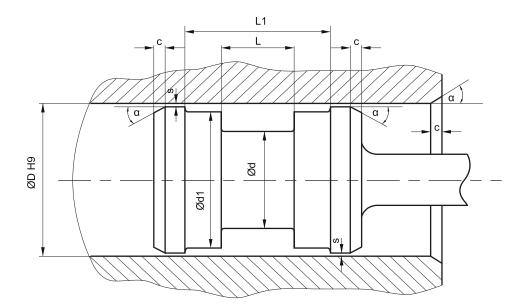
note on special materials:

the temperature limits are determined by the guide- and support parts, using special materials can expand the temperature limits.

mode of installation

the first guiding and backup element should be placed into the groove, then the sealing element should be slipped over the piston and snapped into the groove, then the second guiding and backup element should be placed into the groove. for inside diameters of 25mm and more, the seal can generally be slipped over the piston and snapped into closed grooves. due to occurring deformation force at installation, assembly aid tools are to be used for large cross sections. the material deformation should not exceed the value of 30%, otherwise the permanent deformation would be too large.

recommended mounting space:



insertion chamfer:

in order to avoid damage to the piston seal during installation, the piston and the housing is to be chamfered and rounded as shown in the "recommended mounting space" drawing. the size of chamfer depends on the seal type and profile width.

()	c (mm)			
cs (mm)	$\alpha = 15^{\circ} 20^{\circ}$	$\alpha = 20^{\circ} 30^{\circ}$		
5	4	2,5		
7,5	5	4		
10	6	5		
12,5	8,5	6,5		
15	10	7,5		
20	13	10		

instead of a chamfer, the piston can also be designed with a radius. Recommended size of the radius is equal to size of chamfer (R=c).