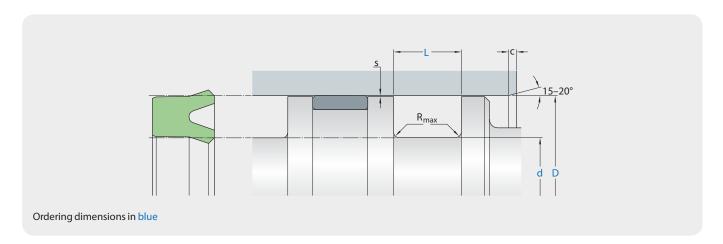


K06-R



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

Standa D H9	rd dimens	ions d h10	L + 0,2	R_{max}	С	Maximal s*	radial extru	ısion gap
over	incl.	1110	+ 0,2	0,2		20 bar	100 bar	160 bar
mm						mm		
14	25	D - 8	6,0	0,4	3,5	0,23	0,16	0,14
25	50	D - 10	7,0	0,4	4,0	0,26	0,19	0,17
50	75	D - 12	8,0	0,4	4,5	0,29	0,22	0,20
75	150	D – 15	10,0	0,4	5,0	0,31	0,24	0,22
150	300	D – 20	12,0	0,4	6,0	0,34	0,27	0,25
300	500	D – 25	18,0	0,4	8,5	0,37	0,30	0,29
500	750	D-30	20,0	0,4	10,0	0,40	0,34	0,32
750		D-40	26,0	0,4	13,0	0,40	0,34	0,32

application





not bolded symbols; please consult our technical for application limitations

 $[*] Extrusion gap values shown above are valid for a temperature of 70\,^{\circ}\text{C}, higher temperatures require lower values.}$

material	temperature	max. surface speed	max. pressure 1	hydrolysis	dry running	wear resistance
Ecorubber 1	-30 °C +100 °C	0,5 m/s	160 bar (16 MPa)	-	-	0
Ecorubber 2	-20 °C +200 °C	0,5 m/s	160 bar (16 MPa)	-	-	0
Ecorubber 3 ²	-50 °C +150 °C	0,5 m/s	160 bar (16 MPa)	++	-	0
Ecorubber H	-25 °C +150 °C	0,5 m/s	160 bar (16 MPa)	+	0	+
Ecosil	-60 °C +200 °C	-	160 bar (16 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.

++ ... particularly suitable o ... conditional suitable

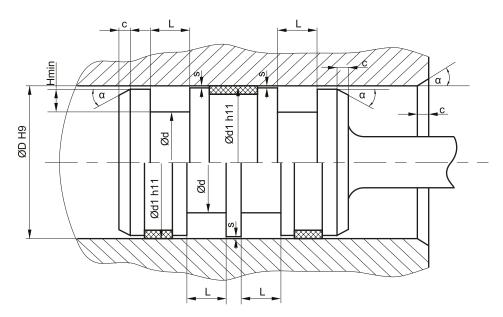
+ ... suitable - ... not suitable

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).

mode of installation

for inside diameters of 25mm and more, the seal can generally be slipped over the piston and snapped into closed grooves. due to occuring 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:



plastic guiderings (wearbands) have to feature a adequate cutting gap (recommendation: 2-5% of D). if metalic guides are used, spiral grooves shall be provided. smaller values for Hmin will ease the installation (reduced elongation and mounting force) but the height of the retaining collar has to be sufficient to assure a stable fit in the housing (larger than cs/2, smaller retaining collars will increase the danger of eversion of the profile in case of occuring drag pressure).

in order to avoid drag pressure built up in case of back-to-back arrangement, the distance between the seals should be as small as possible.

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.

ss (mm)	c (mm)			
cs (mm)	$\alpha = 15^{\circ} 20^{\circ}$	$\alpha = 20^{\circ} 30^{\circ}$		
4	3.5	2		
5	4	2.5		
6	4.5	3		
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).

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

² attention: not suitable for mineral oils!