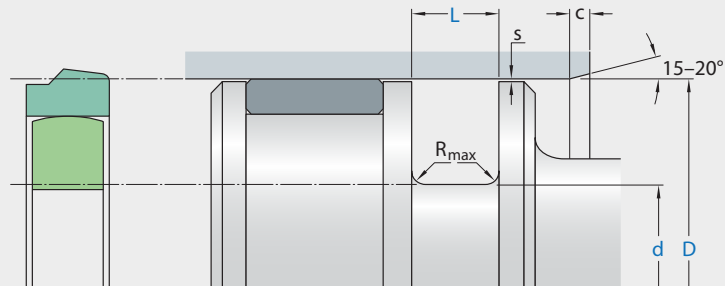


K08-ES



Ordering dimensions in blue

Surface roughness	R_{tmax}	R_a
Sliding surface	$\leq 2 \mu m$	0,05–0,2 μm
Bottom of groove	$\leq 6,3 \mu m$	$\leq 1,6 \mu m$
Groove face	$\leq 15 \mu m$	$\leq 3 \mu m$

Bearing area: 50–95% and a cutting depth of 0,5 R_z based on $C_{ref} = 0\%$

Standard dimensions						Maximal radial extrusion gap			
D	H9	d	L	R_{max}	c	s^*			
over	incl.	h10	+0,2			100 bar	200 bar	400 bar	600 bar
mm						mm			
15	50	D – 10	5,0	0,3	4,0	0,40	0,30	0,20	0,10
50	60	D – 15	7,5	0,4	5,0	0,50	0,30	0,20	0,10
60	200	D – 20	10,0	0,4	6,0	0,60	0,40	0,25	0,15
200	300	D – 25	12,5	0,4	8,5	0,60	0,40	0,25	0,15
300	530	D – 30	15,0	0,8	10,0	0,70	0,50	0,30	0,20
530	680	D – 35	17,5	1,2	13,0	0,80	0,60	0,50	0,20
680	1 500	D – 40	20,0	1,2	15,0	1,00	0,70	0,60	0,30

application



not bolded symbols; please consult our technical for application limitations

* The extrusion gap referred to is valid up to 80 °C and valid for the side opposite to the pressure side; higher temperatures require lower values.

operating parameters & material

diameter range: up to 600 mm

material		temperature	max. surface speed	max. pressure ¹	hydrolysis	dry running	wear resistance
sealing element	energizer						
Ecoflon 2	Ecorubber 1	-30 °C ... +100 °C	10 m/s	400 bar (40 MPa)	-	++	+
Ecoflon 3	Ecorubber 1	-30 °C ... +100 °C	10 m/s	400 bar (40 MPa)	-	++	+
Ecoflon 4	Ecorubber 1	-30 °C ... +100 °C	10 m/s	400 bar (40 MPa)	-	++	+
Ecoflon 2	Ecorubber 2	-20 °C ... +200 °C	10 m/s	400 bar (40 MPa)	-	++	+
Ecoflon 3	Ecorubber 2	-20 °C ... +200 °C	10 m/s	400 bar (40 MPa)	-	++	+
Ecoflon 4	Ecorubber 2	-20 °C ... +200 °C	10 m/s	400 bar (40 MPa)	-	++	+
Ecoflon 2	Ecorubber 3 ²	-50 °C ... +150 °C	10 m/s	400 bar (40 MPa)	++	++	+
Ecoflon 3	Ecorubber 3 ²	-50 °C ... +150 °C	10 m/s	400 bar (40 MPa)	++	++	+
Ecoflon 4	Ecorubber 3 ²	-50 °C ... +150 °C	10 m/s	400 bar (40 MPa)	++	++	+
Ecoflon 2	Ecorubber H	-25 °C ... +150 °C	10 m/s	400 bar (40 MPa)	+	++	+
Ecoflon 3	Ecorubber H	-25 °C ... +150 °C	10 m/s	400 bar (40 MPa)	+	++	+
Ecoflon 4	Ecorubber H	-25 °C ... +150 °C	10 m/s	400 bar (40 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 attention: not suitable for mineral oils!

++ ... particularly suitable

o ... conditional suitable

+ ... suitable

- ... not suitable

for detailed information regarding chemical resistance please refer to our "list of resistance". for decreased leakage rates elastomer materials (polyurethane or rubber) in other sealing systems are to be preferred.

mode of installation

in case of closed grooves, it is not recommended to slip the seal over the piston by hand (uneven material deformation in the sealing part). after the O-Ring is placed into the groove, the sealing part should be stretched over a installation cone by using a sleeve (assembly aid tools).

a recovery of the sealing part with a calibrating sleeve is advisable, however, a special shaped insertion chamfer on the cylinder barrel can also be designed (danger of tilting).

values for "c" see insertion chamfer.

