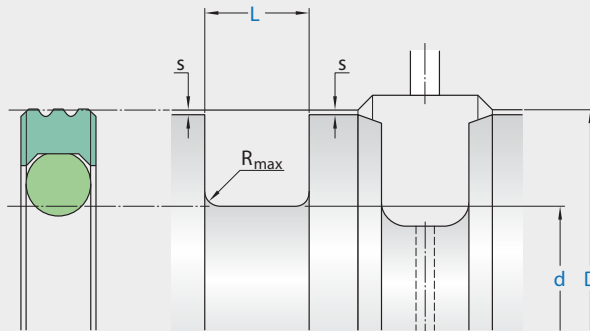


# R10-F



Ordering dimensions in blue

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

Hardness: On the surface min 55 HRC, hardened depth > 0,3 mm.  
 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	H8	d	L	R	$s^*$		
over	incl.	h8	+0,2		100 bar	200 bar	350 bar
mm					mm		
10	19	D – 4,9	2,2	0,3	0,15	0,10	0,10
19	38	D – 7,5	3,2	0,5	0,20	0,15	0,10
38	200	D – 11	4,2	0,7	0,25	0,20	0,10
200	256	D – 15,5	6,3	1,2	0,30	0,25	0,10
256	650	D – 21	8,1	1,5	0,30	0,25	0,15
650	1 000	D – 28	9,5	2,0	0,45	0,30	0,20

\* Extrusion gap values shown above are valid for a temperature of 80 °C, higher temperatures require lower values.

## application



not bolded symbols; please consult our technical for application limitations

**operating parameters & material***diameter range: up to 600 mm*

material		temperature	max. pressure <sup>1</sup>
sealing element	energizer		
Ecoflon 2	Ecorubber 1	-30 °C ... +100 °C	350 bar (35 MPa)
Ecoflon 2	Ecorubber 2	-20 °C ... +200 °C	350 bar (35 MPa)
Ecoflon 3	Ecorubber 1	-30 °C ... +100 °C	350 bar (35 MPa)
Ecoflon 3	Ecorubber 2	-20 °C ... +200 °C	350 bar (35 MPa)
Ecoflon 4	Ecorubber 1	-30 °C ... +100 °C	350 bar (35 MPa)
Ecoflon 4	Ecorubber 2	-20 °C ... +200 °C	350 bar (35 MPa)
Ecowear	Ecorubber 1	-30 °C ... +80 °C	350 bar (35 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.*

<sup>1</sup> pressure ratings are dependent on the size of the extrusion gap.

**surface quality**

surface roughness	Rtmax (µm)	Ra (µm)
sliding surface	≤3	≤0,3
bottom of groove	≤10	≤1,8
groove face	≤16	≤3

**tolerance recommendation**

seal housing tolerances	
Ød	f7
ØD	H8