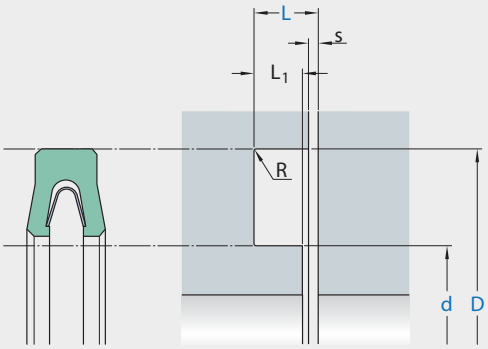
R12-F



Ordering dimensions in blue

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

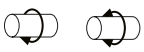
Bearing area: 50–95% and a cutting depth of 0,5 R_z based on C_{ref} = 0%

Standard dimensions

D H8 over	D H8 incl.	d	L	L_1 min	R	s_{max} [1]
mm						
39,6	46	D – 9,6	3,1 +0,08	1,5	0,4	0,15
46	125	D – 14,2	4,7 +0,10	2,4	0,4	0,2
125	600	D – 19	6,1 +0,15	3,1	0,4	0,25

[1] The extrusion gap is valid for the side opposite to the pressure side.

application



operating parameters & materials

diameter range: up to 600 mm

material		temperature	max. Speed	max. pressure [1]
sealing element	spring			
Ecoflon 2	14.310	-200 °C ... +260 °C	15 m/s	300 bar (30 MPa)
Ecoflon 3	14.310	-200 °C ... +260 °C	15 m/s	300 bar (30 MPa)
Ecoflon 3	14.310	-200 °C ... +260 °C	15 m/s	300 bar (30 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.

L [mm]	spring
3 ... 4,6	6,35 x 0,15
> 4,6 ... 6	9,8 x 0,18
> 6 ... 8	14,1 x 0,22

surface quality

	static		rotating	
surface roughness	Rtmax (µm)	Ra (µm)	Rtmax (µm)	Ra (µm)
sea surface	≤ 1,2 - 2,4	≤ 0,3 - 0,5	≤ 0,4 - 0,8	≤ 0,1 - 0,2
groove face	≤ 6,3 - 10	≤ 0,8 - 2,2	≤ 6,3 - 10	≤ 0,8 - 2,2