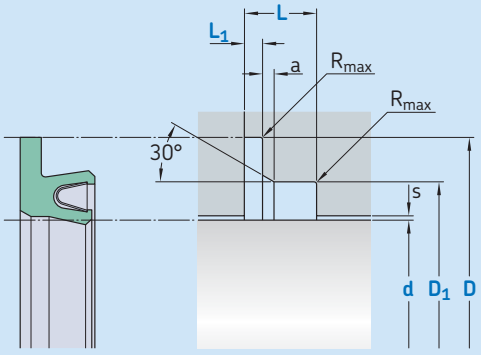
R19-F



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

Hardness: Min 45 HRC (55 HRC recommended), 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 d f8 over	incl.	D H10	D_1 H9	a	L + 0,2	L_1	R_{max}	**Maximal radial extrusion gap** s* 20 bar	100 bar	150 bar
mm								mm		
5	**20**	d + 9,0	d + 5,0	0,8	3,6	0,85 $^{-0,10}$	0,4	0,25	0,15	0,10
20	**40**	d + 12,5	d + 7,0	1,2	4,8	1,35 $^{-0,10}$	0,4	0,35	0,20	0,15
40	**400**	d + 17,5	d + 10,5	1,4	7,1	1,80 $^{-0,15}$	0,4	0,50	0,25	0,20
400		d + 22,0	d + 14,0	1,6	9,5	2,80 $^{-0,20}$	0,4	0,60	0,30	0,25

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

Ordering example

Profile	**Rotary seal R19-F**
d x D/D_1 x L/L_1 [mm]	**100 x 117,5/110,5 x 7,1/1,8**
Sealing material / Spring	**SKF Ecoflon 4 / 1.4310**

Operating parameters

Material		Temperature		Speed[1]	Pressure[2]
Seal	Spring	from	to	max	max
–		°C		m/s	bar *(MPa)*
SKF Ecoflon 1 SKF Ecoflon 2 SKF Ecoflon 3 SKF Ecoflon 4	1.4310[3] 2.4711[4]	–200	+260	2	150 *(15)*

IMPORTANT NOTE: The stated operating conditions represent general indications. It is recommended not to use all maximum values simultaneously.
[1] Surface speed limit values are valid only in the presence of a lubrication film.
[2] Pressure ratings depend on the size of the extrusion gap.
[3] Available for standard and x00 spring versions.
[4] Available for x00 spring versions.

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