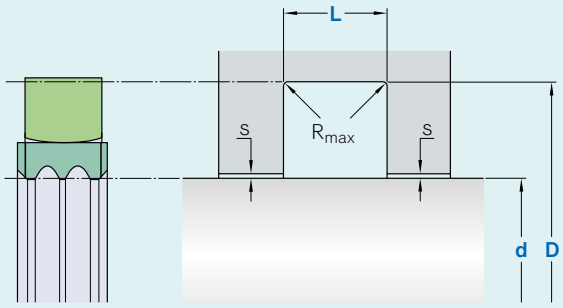
R09-FS



Ordering dimensions in **blue**

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

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 d f8 over	incl.	D H9	L + 0,2	R_{max}	**Maximal radial extrusion gap** s* 100 bar	200 bar	350 bar
mm					mm		
5	**50**	d + 10	5,0	0,4	0,25	0,20	0,10
50	**60**	d + 15	7,5	0,4	0,30	0,25	0,10
60	**200**	d + 20	10,0	0,4	0,30	0,25	0,15
200	**300**	d + 25	12,5	0,4	0,30	0,25	0,15
300	**530**	d + 30	15,0	0,4	0,45	0,30	0,20
530	**650**	d + 35	17,5	0,4	0,45	0,30	0,20
650	**1 000**	d + 40	20,0	0,4	0,50	0,35	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 R09-FS**
d x D x L [mm]	**100 x 120 x 10**
Sealing material / Energizer	**SKF Ecoflon 4 / SKF Ecorubber-1**

Operating parameters

Material		Temperature		Speed[1]	Pressure[2]
Seal	Energizer	from	to	max	max
		°C		m/s	bar *(MPa)*
■ SKF Ecoflon 4	■ SKF Ecorubber-1	–30	+100	0,4	350 *(35)*
■ SKF Ecoflon 4	■ SKF Ecorubber-2	–20	+200	0,4	350 *(35)*

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.

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