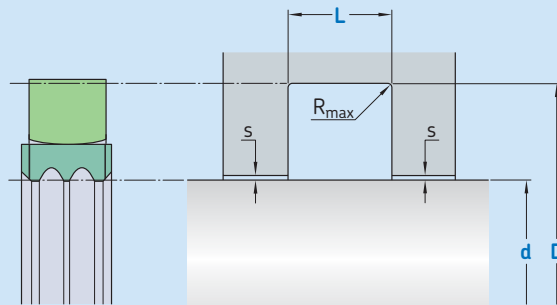


R09-FS



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	f8	D	L	R_{max}	s^*		
over	incl.	H9	+ 0,2		100 bar	200 bar	350 bar
mm					mm		
5	50	d + 10	5	0,4	0,25	0,2	0,10
50	60	d + 15	7,5	0,4	0,3	0,25	0,10
60	200	d + 20	10	0,4	0,3	0,25	0,15
200	300	d + 25	12,5	0,4	0,3	0,25	0,15
300	530	d + 30	15	0,4	0,45	0,3	0,2
530	650	d + 35	17,5	0,4	0,45	0,3	0,2
650	1 000	d + 40	20	0,4	0,5	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
d x D x L [mm]
Sealing material / Energizer

Rotary seal R09-FS
100 x 120 x 10
SKF Ecoflon 4 / SKF Ecorubber-1

Operating parameters

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

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.