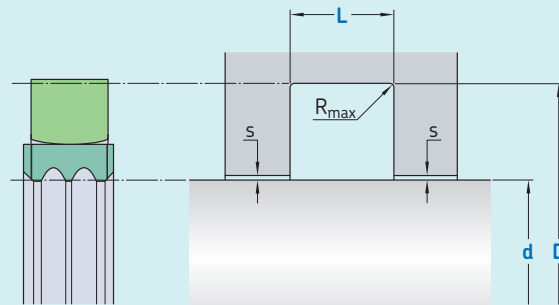


R09-FS



Ordering dimensions in **blue**

Surface roughness	R_{tmax}	R_a
	μm	
Sliding surface	≤ 2	0,05–0,2
Bottom of groove	$\leq 6,3$	$\leq 1,6$
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					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	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
 $d \times D \times L$ [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 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.