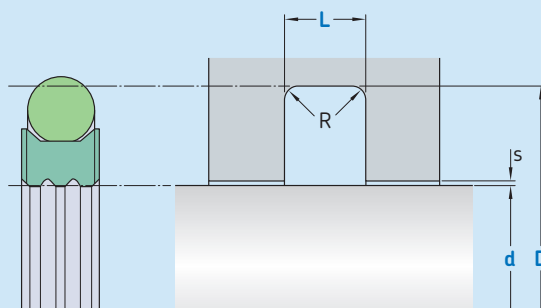


R09-F



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	s^*		
over	incl.	H9	+ 0,2		100 bar	200 bar	350 bar
mm					mm		
5	19	$d + 4,9$	2,2	0,3	0,15	0,10	0,10
19	38	$d + 7,5$	3,2	0,5	0,20	0,15	0,10
38	200	$d + 11$	4,2	0,7	0,25	0,20	0,10
200	256	$d + 15,5$	6,3	1,2	0,30	0,25	0,10
256	650	$d + 21$	8,1	1,5	0,30	0,25	0,15
650	1 000	$d + 28$	9,5	2,0	0,45	0,30	0,20

* 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-F
100 x 111 x 4,2
SKF Ecoflon 4 / NBR70



Operating parameters

Material Seal	Energizer	Temperature		Speed ¹⁾	Pressure ²⁾
		from	to	max	max
–		°C		m/s	bar (MPa)
■ SKF Ecoflon 4	NBR70	–30	+100	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.

