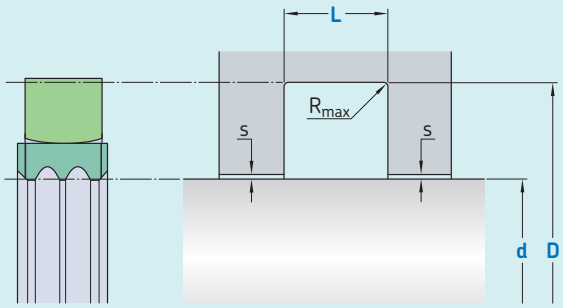
R09-FS



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**

R09-FS

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.

skf.com | skf.com/seals

® SKF is a registered trademark of the SKF Group.

© SKF Group 2019
The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless prior written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use of the information contained herein.

PUB SE/P8 11880/2 EN · November 2019