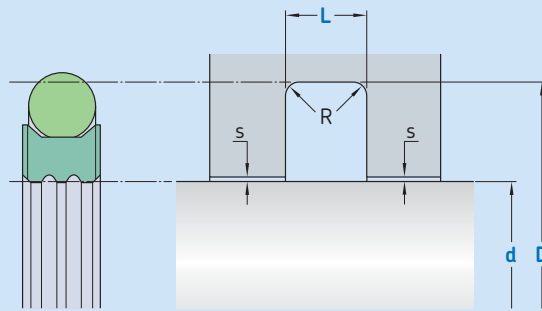


# R09-F



Ordering dimensions in **blue**

Surface roughness	$R_{tmax}$	$R_a$
<b>Sliding surface</b>	$\leq 2 \mu m$	$0,05-0,3 \mu m$
<b>Bottom of groove</b>	$\leq 6,3 \mu m$	$\leq 1,6 \mu m$
<b>Groove face</b>	$\leq 15 \mu m$	$\leq 3 \mu m$

Hardness: On the surface min 55 HRC, hardened depth  $> 0,3 \text{ mm}$ .  
Bearing area: 50–95% and a cutting depth of  $0,5 R_z$  based on  $C_{ref} = 0\%$

Standard dimensions					Maximal radial extrusion gap $s^*$		
d	f8	D	L	R			
over	incl.	H9	+ 0,2		100 bar	200 bar	350 bar
mm					mm		
<b>5</b>	<b>19</b>	$d + 4,9$	2,2	0,3	0,15	0,10	0,10
<b>19</b>	<b>38</b>	$d + 7,5$	3,2	0,5	0,20	0,15	0,10
<b>38</b>	<b>200</b>	$d + 11$	4,2	0,7	0,25	0,20	0,10
<b>200</b>	<b>256</b>	$d + 15,5$	6,3	1,2	0,30	0,25	0,10
<b>256</b>	<b>650</b>	$d + 21$	8,1	1,5	0,30	0,25	0,15
<b>650</b>	<b>1 000</b>	$d + 28$	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 <sup>1)</sup>	Pressure <sup>2)</sup>
		from	to	max	max
		°C		m/s	bar (MPa)
–					
■ SKF Ecoflon 4	FPM75	–20	+200	0,4	350 (35)
	NBR70	–30	+100		

IMPORTANT NOTE: The stated operating conditions represent general indications. It is recommended not to use all maximum values simultaneously.

<sup>1)</sup> Surface speed limit values are valid only in the presence of a lubrication film.

<sup>2)</sup> Pressure ratings depend on the size of the extrusion gap.