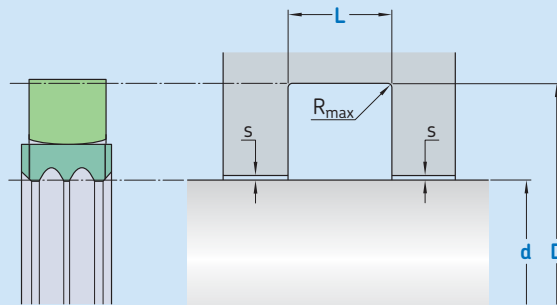


R09-FS



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.