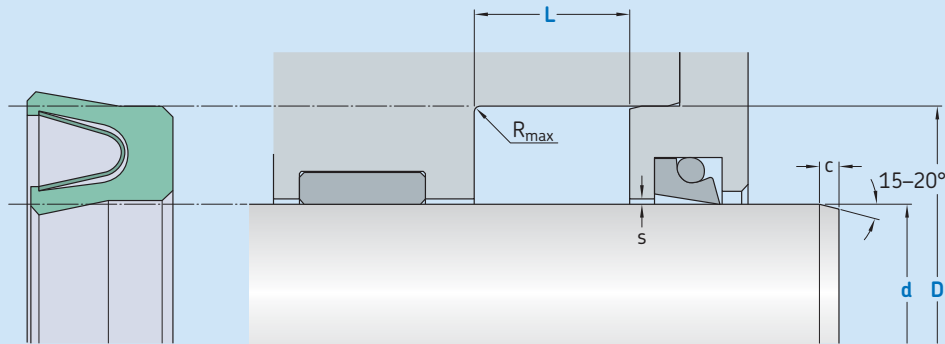


S19-F



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 | $\leq 15 \mu m$ | $\leq 3 \mu m$ |

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 | D | L | R_{max} | c | s^* | | | | | |
| f8 | H10 | + 0,2 | | | | 20 bar | 100 bar | 200 bar | 300 bar | 400 bar |
| over | incl. | | | | | mm | | | | |
| mm | | | | | | mm | | | | |
| 5 | 18 | $d + 4,5$ | 3,6 | 0,4 | 2,0 | 0,25 | 0,12 | 0,10 | 0,08 | 0,07 |
| 18 | 50 | $d + 6,2$ | 4,8 | 0,4 | 3,0 | 0,35 | 0,17 | 0,12 | 0,10 | 0,08 |
| 50 | 120 | $d + 9,4$ | 7,1 | 0,4 | 4,0 | 0,45 | 0,22 | 0,17 | 0,12 | 0,10 |
| 120 | 630 | $d + 12,2$ | 9,5 | 0,4 | 5,0 | 0,60 | 0,31 | 0,25 | 0,15 | 0,12 |
| 630 | 1 600 | $d + 19,0$ | 15,0 | 0,4 | 6,0 | 0,87 | 0,48 | 0,38 | 0,28 | 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 / Spring

Rod Seal S19-F
100 x 109,4 x 7,1
SKF Ecoflon 3 / 1.4310

Operating parameters

| Material Seal | Spring | Temperature | | Speed ¹⁾ | Pressure ²⁾ |
|------------------|--|-------------|------|---------------------|------------------------|
| | | from | to | max | max |
| | | °C | | m/s | bar (MPa) |
| SKF Ecoflon 1 | | | | | 200 (20) |
| SKF Ecoflon 2 | | | | | |
| SKF Ecoflon 3 | 1.4310 ³⁾ 2.4711 ⁴⁾ | -200 | +260 | 15 | 400 (40) |
| SKF Ecoflon 4 | | | | | |
| SKF Ecowear 1000 | | | +90 | | 200 (20) |

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.

³⁾ Available for standard and x00 spring versions.

⁴⁾ Available for x00 spring versions.