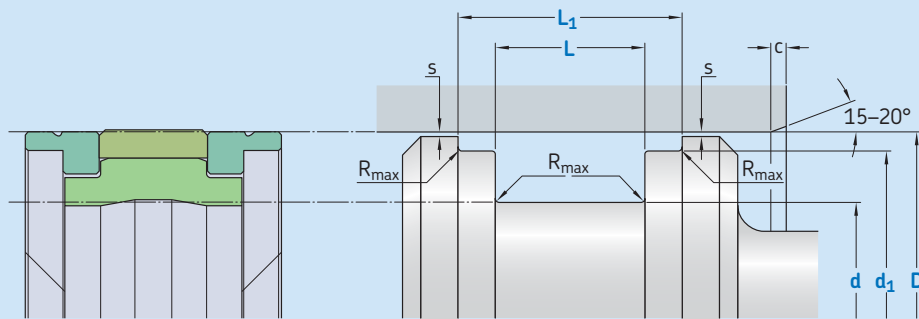


K09-F



Ordering dimensions in **blue**

| Surface roughness | R_{tmax} | R_a |
|-------------------------|------------------|------------------|
| Sliding surface | $\leq 2,5 \mu m$ | $0,05-0,2 \mu m$ |
| 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

| D | H9 | d | d ₁ | L | L ₁ | R _{max} | c | s* |
|------|-------|--------|----------------|-------|----------------|------------------|-----|------|
| over | incl. | h9 | h8 | + 0,2 | | | | |
| 20 | 50 | D - 10 | D - 3 | 12,5 | 20,5 | 0,4 | 4 | 0,35 |
| 50 | 80 | D - 15 | D - 4 | 20 | 28 | 0,4 | 5 | 0,50 |
| 80 | 150 | D - 20 | D - 5 | 25 | 36 | 0,4 | 6 | 0,65 |
| 150 | 400 | D - 25 | D - 6 | 32 | 46 | 0,4 | 8,5 | 0,78 |
| 400 | 650 | D - 30 | D - 8 | 36 | 50 | 0,4 | 10 | 1,00 |

* Extrusion gap values shown above are valid for a temperature of 70 °C, higher temperatures require lower values.

Ordering example

Profile
D x d/d₁ x L/L₁ [mm]
Sealing material / Energizer / Backup ring

Piston seal K09-F
100 x 80/95 x 25/36
SKF Ecoflon 3 / SKF Ecorubber-1 / SKF Ecotal

Operating parameters

| Material Seal | Energizer | Backup ring | Temperature | | Speed ¹⁾ | Pressure ²⁾ |
|-----------------|-------------------|--|-------------|------|---------------------|------------------------|
| | | | from | to | max | max |
| | | | °C | | m/s | bar (MPa) |
| ■ X-ECOPUR | | | | | 1 | |
| ■ X-ECOPUR H | | | | | 1,2 | 400 (40) |
| ■ X-ECOPUR S | ■ SKF Ecorubber-1 | ■ SKF Ecotal ³⁾ ■ SKF Ecomid ³⁾ | -30 | +100 | 1,5 | |
| ■ SKF Ecoflon 2 | | | | | | |
| ■ SKF Ecoflon 3 | | | | | | |
| ■ SKF Ecoflon 4 | ■ SKF Ecorubber-2 | ■ SKF Ecopaek | -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.

³⁾ D ≤ 260 mm → SKF Ecotal, D > 260 mm → SKF Ecomid.