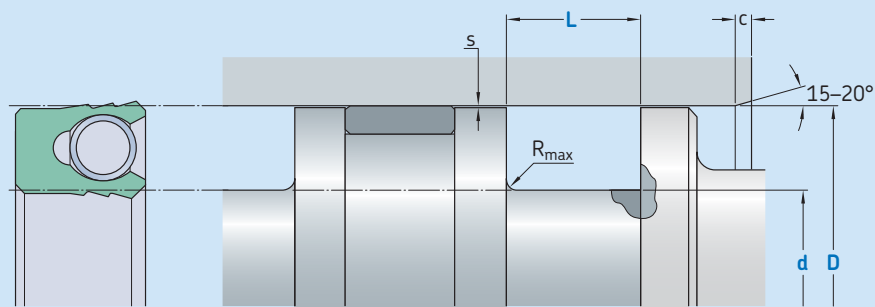


# K03-S



Ordering dimensions in **blue**

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

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                   | H9          | d      | L     | $R_{max}$ | c    | $s^*$                        |         |         |         |
| over                | incl.       | h10    | + 0,2 |           |      | 20 bar                       | 100 bar | 200 bar | 400 bar |
| mm                  |             |        |       |           |      | mm                           |         |         |         |
| <b>9</b>            | <b>15</b>   | D - 4  | 3,5   | 0,4       | 2,0  | 0,25                         | 0,12    | 0,10    | 0,07    |
| <b>15</b>           | <b>30</b>   | D - 6  | 5,0   | 0,4       | 3,0  | 0,35                         | 0,17    | 0,12    | 0,08    |
| <b>30</b>           | <b>120</b>  | D - 10 | 8,0   | 0,4       | 4,0  | 0,45                         | 0,22    | 0,17    | 0,10    |
| <b>120</b>          | <b>200</b>  | D - 15 | 11,5  | 0,4       | 5,0  | 0,75                         | 0,40    | 0,33    | 0,18    |
| <b>200</b>          | <b>250</b>  | D - 20 | 13,0  | 0,4       | 6,0  | 0,87                         | 0,48    | 0,38    | 0,20    |
| <b>250</b>          | <b>500</b>  | D - 25 | 18,5  | 0,4       | 8,5  | 0,87                         | 0,48    | 0,38    | 0,20    |
| <b>500</b>          | <b>1600</b> | D - 30 | 23,0  | 0,4       | 10,0 | 0,87                         | 0,48    | 0,38    | 0,20    |

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

## Ordering example

Profile  
D x d x L [mm]  
Sealing material / Spring

Piston seal K03-S  
103 x 90 x 9,5  
SKF Ecoflon 3 / 1.4310

## Operating parameters

| Material Seal    | Spring                                       | Temperature |      | Speed <sup>1)</sup> | Pressure <sup>2)</sup> |
|------------------|--|-------------|------|---------------------|------------------------|
|                  |  | from        | to   | max                 | max                    |
|                  |  | °C          |      | m/s                 | bar (MPa)              |
| SKF Ecoflon 1    |  |             |      |                     | 200 (20)               |
| SKF Ecoflon 2    | 1.4310 <sup>3)</sup><br>2.4711 <sup>4)</sup> | -200        | +260 | 1                   | 400 (40)               |
| SKF Ecoflon 3    |  |             |      |                     |                        |
| SKF Ecoflon 4    |  |             |      |                     |                        |
| SKF Ecowear 1000 |  |             | +90  | 0,5                 | 200 (20)               |

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.

<sup>3)</sup> Available for standard and x00 spring versions.

<sup>4)</sup> Available for x00 spring versions.