

Seal data sheet

Piston seals

K22-R

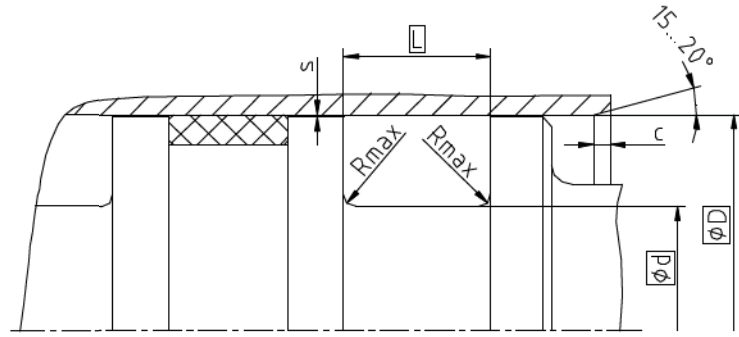
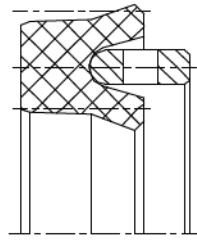
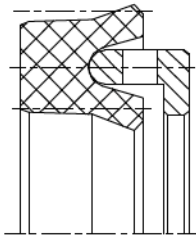


2008-09

Seal housing

Type 1

Type 2



| Surface roughness | Rtmax | Ra |
|-------------------|----------|--------------|
| Sliding Surface | ≤ 2,5 µm | 0,1...0,5 µm |
| Bottom of groove | ≤ 6,3 µm | ≤ 1,6 µm |
| Groove face | ≤ 15 µm | ≤ 3 µm |

Ordering dimensions...□

Bearing area: 50...95% and a cutting depth of 0,5xRz based on Cref = 0%

Standard dimensions

| ØD H9 | Ød h10 | L +0,2 | Rmax | c | max. radial extrusion gap s* | | |
|-----------------|--------|--------|------|------|------------------------------|---------|---------|
| | | | | | 20 bar | 100 bar | 160 bar |
| ≥ 14 ... ≤ 25 | D - 8 | 6,0 | 0,4 | 3,5 | 0,23 | 0,16 | 0,14 |
| > 25 ... ≤ 50 | D - 10 | 7,0 | 0,4 | 4,0 | 0,26 | 0,19 | 0,17 |
| > 50 ... ≤ 75 | D - 12 | 8,0 | 0,4 | 4,5 | 0,29 | 0,22 | 0,20 |
| > 75 ... ≤ 150 | D - 15 | 10,0 | 0,4 | 5,0 | 0,31 | 0,24 | 0,22 |
| > 150 ... ≤ 300 | D - 20 | 12,0 | 0,4 | 6,0 | 0,34 | 0,27 | 0,25 |
| > 300 ... ≤ 500 | D - 25 | 18,0 | 0,4 | 8,5 | 0,37 | 0,30 | 0,29 |
| > 500 ... ≤ 600 | D - 30 | 20,0 | 0,4 | 10,0 | 0,40 | 0,34 | 0,32 |

* Extrusion gap applies to a temperature of 70 °C, higher temperatures require lower values.
Standard: Type 2

Operating parameters

| Sealing material | Support ring | Temperature | max. speed | max. pressure ¹ |
|------------------------|--|-------------------------|----------------|----------------------------|
| SKF ECORUBBER-1 | SKF ECOTAL SKF ECOMID ² | -30 °C...+100 °C | 0,5 m/s | 160 bar (16 Mpa) |
| SKF ECORUBBER-2 | SKF ECOFLON 2 | -20 °C...+100 °C | | |
| SKF ECORUBBER-3 | SKF ECOTAL SKF ECOMID ² | -40 °C...+100 °C | | |
| | SKF ECOFLON 2 | -50 °C...+150 °C | | |
| SKF ECORUBBER-H | SKF ECOTAL SKF ECOMID ² | -25 °C...+100 °C | | |
| | SKF ECOFLON 2 | -25 °C...+150 °C | | |
| SKF ECOFLAS | | -10 °C...+200 °C | | |

The stated operation conditions represent general indications. It is recommended not to use all maximum values simultaneously. Surface speed limits apply only to the presence of adequate lubrication film.

¹ Pressure ratings depend on the size of the extrusion gap.

² ≤ Ø260mm: SKF ECOTAL ; > Ø260mm: SKF ECOMID

Ordering example

K22-P, D=100mm, d=85mm, L=10mm, SKF ECORUBBER-1 / SKF ECOTAL

Piston Seal K22-P
Profile

100 x 85 x 10
D x d x L

SKF ECORUBBER-1 / SKF ECOTAL
Sealing material / Support ring

ECONOMOS

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