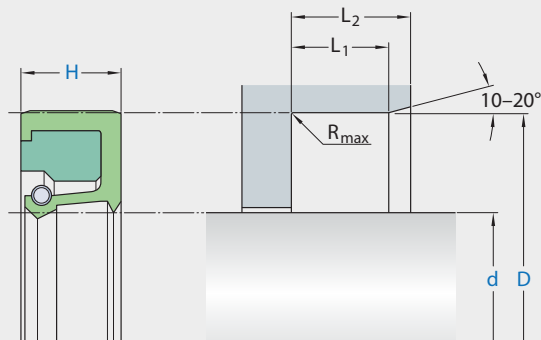


R02-R



Ordering dimensions in blue

| Surface roughness | R_{tmax} | R_a |
|-------------------|------------------|------------------|
| Sliding surface | $\leq 2,5 \mu m$ | $0,1-0,5 \mu m$ |
| Bottom of groove | $\leq 6,3 \mu m$ | $\leq 1,6 \mu m$ |
| Groove face | $\leq 15 \mu m$ | $\leq 3 \mu m$ |

Hardness: Min 45 HRC (55 HRC recommended), hardened depth $> 0,3 \text{ mm}$.
 Bearing area: 50-95% and a cutting depth of $0,5 R_z$ based on $C_{ref} = 0\%$

| Standard dimensions | | D | H | L ₁ | L ₂ | R _{max} |
|---------------------|-------|--------|------|----------------|----------------|------------------|
| d | h11 | H8 | | | | |
| over | incl. | | | | | |
| mm | | | | | | |
| 5 | 60 | d + 12 | 7,0 | 5,95 | 7,3 | 0,4 |
| 60 | 140 | d + 15 | 8,0 | 6,8 | 8,3 | 0,4 |
| 140 | 300 | d + 20 | 10,0 | 8,5 | 10,3 | 0,4 |
| 300 | 500 | d + 30 | 12,0 | 10,3 | 12,3 | 0,8 |
| 500 | 800 | d + 40 | 20,0 | 17 | 20,3 | 0,8 |
| 800 | | d + 50 | 22,0 | 18,7 | 22,3 | 0,8 |

application



operating parameters & material

diameter range: up to 600 mm

| material | | temperature | max. surface speed | max. pressure ¹ |
|--------------------------|----------------------------------|--------------------|--------------------|----------------------------|
| sealing element | back-up ring | | | |
| Ecorubber 1 | Ecotal/Ecomid/Metal ² | -30 °C ... +80 °C | 10 m/s | 0,5 bar (7 psi) |
| Ecorubber H | Ecotal/Ecomid/Metal ² | -25 °C ... +80 °C | 10 m/s | 0,5 bar (7 psi) |
| Ecorubber 2 | Metal | -20 °C ... +200 °C | 15 m/s | 0,5 bar (7 psi) |
| Ecorubber 3 ³ | Ecotal/Ecomid ² | -50 °C ... +80 °C | 10 m/s | 0,5 bar (7 psi) |
| Ecorubber 3 ³ | Metal | -50 °C ... +150 °C | 10 m/s | 0,5 bar (7 psi) |
| Ecosil | Ecotal/Ecomid ² | -50 °C ... +80 °C | 5 m/s | 0,2 bar (3 psi) |
| Ecosil | Metal | -60 °C ... +200 °C | 5 m/s | 0,2 bar (3 psi) |

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 are dependent on the size of the extrusion gap.

² Ecotal up to ø260 mm, Ecomid above ø260 mm.

surface quality

| surface roughness | Rtmax [µm] | Ra [µm] |
|-------------------|------------|----------|
| shaft | ≤6,3 | ≤0,2-0,8 |
| bottom of groove | ≤25 | ≤1,6-6,3 |

tolerance recommendation

| seal housing tolerances | |
|-------------------------|-----|
| Ød | f8 |
| ØD | H8 |
| ØD1 | H11 |