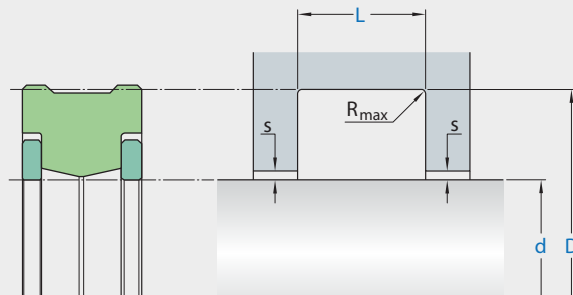


R03-P



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 | L | R_{max} | s |
|---------------------|-------|--------|------|-----------|-------|
| d* | | H9 | +0,2 | | |
| over | incl. | | | | |
| mm | | | | | |
| 21 | 22 | d + 8 | 6,5 | 0,2 | e8/H9 |
| 22 | 36 | d + 10 | 8 | 0,2 | e8/H9 |
| 36 | 56 | d + 12 | 8 | 0,2 | e8/H9 |
| 56 | 85 | d + 15 | 11 | 0,2 | f7/H7 |
| 85 | 140 | d + 20 | 13 | 0,2 | f7/H7 |
| 140 | 200 | d + 25 | 16 | 0,2 | f7/H7 |
| 200 | 300 | d + 30 | 19 | 0,2 | f7/H7 |
| 300 | | d + 40 | 26 | 0,2 | f7/H7 |

* Tolerance area shaft $\leq 56 \text{ mm} \pm e8$, $> 56 \text{ mm} \pm f7$

application



not bolded symbols; please consult our technical for application limitations

operating parameters & material

diameter range: up to 600 mm

| material | | temperature | max. surface speed | max. pressure ¹ |
|-----------------|----------------------------|--------------------|--------------------|----------------------------|
| sealing element | back-up ring | | | |
| ECOPUR | Ecotal/Ecomid ² | -30 °C ... +100 °C | 0,2 m/s | 400 bar (5800 psi) |
| H-ECOPUR | Ecotal/Ecomid ² | -20 °C ... +100 °C | 0,2 m/s | 400 bar (5800 psi) |
| S-ECOPUR | Ecotal/Ecomid ² | -20 °C ... +100 °C | 0,3 m/s | 400 bar (5800 psi) |
| T-ECOPUR | Ecotal/Ecomid ² | -40 °C ... +100 °C | 0,2 m/s | 400 bar (5800 psi) |
| G-ECOPUR | Ecotal/Ecomid ² | -30 °C ... +100 °C | 0,2 m/s | 400 bar (5800 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) |
|-------------------|---------------|------------|
| sliding surface | ≤3 | ≤0,3 |
| bottom of groove | ≤10 | ≤1,8 |
| groove face | ≤16 | ≤3 |

tolerance recommendation

| seal housing tolerances | |
|-------------------------|----|
| Ød | f7 |
| ØD | H8 |