

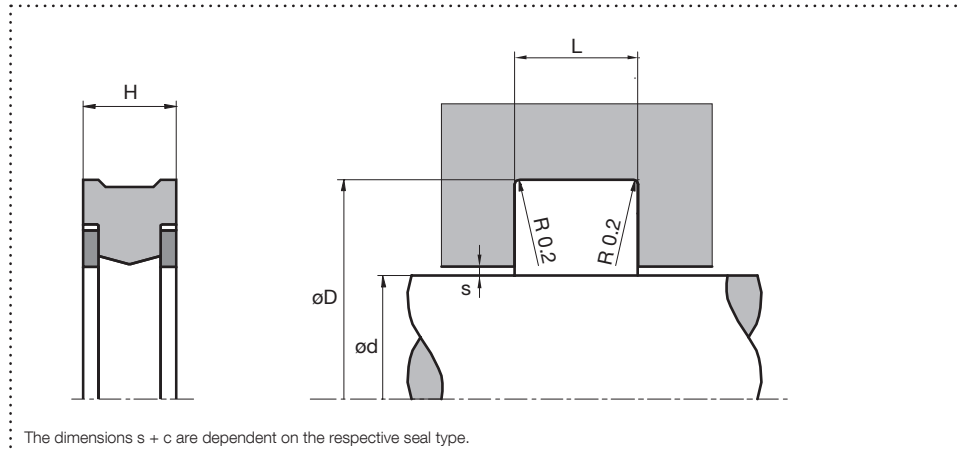


trygonal

Rotary Seal TR03P

single acting

Housing design



Surface finish

| Roughness | Rtmax (µm) | Ra (µm) | Material portion |
|-----------------|------------|-----------|--|
| Sliding surface | ≤ 2,5 | 0,1 – 0,5 | Hardness: min. 45 HRC (55 HRC recommended), insert depth > 0.3mm Contact area: 50 - 95% at a cutting depth of 0.5xRz starting from Cref = 0%. |
| Groove base | ≤ 6,3 | ≤ 1,6 | |
| Groove flanks | ≤ 15 | ≤ 3 | |

Standard dimensions

| ød (mm) | øD H9 (mm) | L + 0,2 (mm) | H (mm) | s (mm) |
|---------------|------------|--------------|--------|--------|
| ≥ 21 – ≤ 22 | d + 8 | 6,5 | 5,9 | e8/H9 |
| > 22 – ≤ 36 | d + 10 | 8 | 7,2 | e8/H9 |
| > 36 – ≤ 56 | d + 12 | 8 | 7,1 | e8/H9 |
| > 56 – ≤ 85 | d + 15 | 11 | 9,8 | f7/H7 |
| > 85 – ≤ 140 | d + 20 | 13 | 11,5 | f7/H7 |
| > 140 – ≤ 200 | d + 25 | 16 | 14,1 | f7/H7 |
| > 200 – ≤ 300 | d + 30 | 19 | 16,7 | f7/H7 |
| > 300 | d + 40 | 26 | 23,0 | f7/H7 |

Material and application parameters

| Sealing element | Support ring | Temp. (°C) | max. sliding speed (m/s) | max. pressure ¹ |
|-----------------|-----------------------|------------|--------------------------|----------------------------|
| HPU premium | POM/PA6G ² | -30 – +100 | 0,2 | 400 bar (40 MPa) |
| HPU diet | POM/PA6G ² | -20 – +100 | 0,2 | 400 bar (40 MPa) |
| HPU lubric | POM/PA6G ² | -40 – +100 | 0,3 | 400 bar (40 MPa) |
| HPU taiga | POM/PA6G ² | -20 – +100 | 0,2 | 400 bar (40 MPa) |

¹ Pressure values as a function of the gap dimension. ² ≤ ø280mm: POM ; > ø280mm: PA6G

The specified application parameters are generally valid values and must not be used simultaneously with the application. An order can be placed by specifying the profile type, material and specified housing design dimensions.

Design

- Rotary seal made of polyurethane with backup rings
- Tight fit on outer diameter
- Backup rings allow larger gap dimensions
- Mainly used in mobile hydraulics and in rotary distributors

Application



rotating



oscillating



screwing

Brightened symbols:
Seal only for limited use.
Please contact us.