

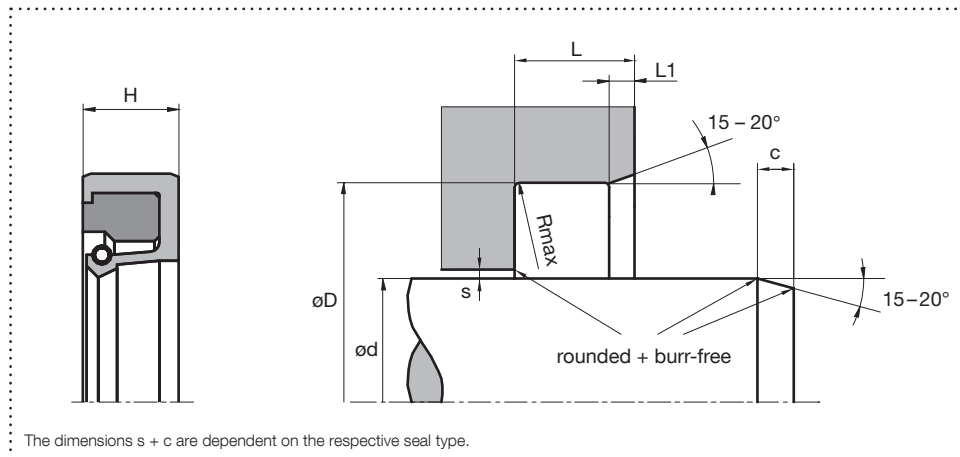


trygonal

Rotary Seal TR01R

single acting

Housing design



Design

- Spring supported rubber shaft sealing ring
- Can be pressed into open installation spaces
- Various application possibilities

Application



rotating



oscillating

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

Surface finish

| Roughness | R _{tmax} (µm) | R _a (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 0.5xR _z starting from C _{ref} = 0%. |
| Groove base | ≤ 6,3 | ≤ 1,6 | |
| Groove flanks | ≤ 15 | ≤ 3 | |

Standard dimensions

| ød h11 (mm) | øD H8 (mm) | H (mm) | L1 (mm) | L (mm) | c (mm) | R _{max} (mm) |
|---------------|------------|--------|---------|--------|--------|-----------------------|
| ≥ 5 – < 60 | d + 12 | 7,0 | 1,35 | 7,3 | 5 | 0,4 |
| ≥ 60 – < 140 | d + 15 | 8,0 | 1,5 | 8,3 | 6 | 0,4 |
| ≥ 140 – < 300 | d + 20 | 10,0 | 1,8 | 10,3 | 9 | 0,4 |
| ≥ 300 – < 500 | d + 30 | 12,0 | 2,0 | 12,3 | 11 | 0,8 |
| ≥ 500 – ≤ 800 | d + 40 | 20,0 | 3,3 | 20,3 | 13 | 0,8 |
| > 800 | d + 50 | 22,0 | 3,6 | 22,3 | 16 | 0,8 |

Material and application parameters

| Sealing element | Klemmring | Spring | Temp. (°C) | max. sliding speed (m/s) ¹ | max. pressure |
|-----------------|-----------------------|--------|------------|---------------------------------------|--------------------|
| NBR standard | POM/PA6G ² | 1.4310 | -30 – +80 | 10 | 0,5 bar (0,05 MPa) |
| FPM diet br | POM/PA6G ² | 1.4310 | -20 – +80 | 15 | 0,5 bar (0,05 MPa) |
| EPDM spring | POM/PA6G ² | 1.4310 | -50 – +80 | 10 | 0,5 bar (0,05 MPa) |
| HNBR diet | POM/PA6G ² | 1.4310 | -25 – +80 | 10 | 0,5 bar (0,05 MPa) |
| AFLAS® standard | POM/PA6G ² | 1.4310 | -10 – +80 | 10 | 0,5 bar (0,05 MPa) |
| MVQ diet we | POM/PA6G ² | 1.4310 | -60 – +80 | 5 | – |
| NBR standard | Peek nature diet | 1.4310 | -30 – +100 | 10 | 0,5 bar (0,05 MPa) |
| FPM diet br | Peek nature diet | 1.4310 | -20 – +200 | 15 | 0,5 bar (0,05 MPa) |
| EPDM spring | Peek nature diet | 1.4310 | -50 – +150 | 10 | 0,5 bar (0,05 MPa) |
| HNBR diet | Peek nature diet | 1.4310 | -25 – +150 | 10 | 0,5 bar (0,05 MPa) |
| AFLAS® standard | Peek nature diet | 1.4310 | -10 – +200 | 10 | 0,5 bar (0,05 MPa) |
| MVQ diet we | Peek nature diet | 1.4310 | -60 – +200 | 5 | – |

¹ Depending on the shaft diameter. 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.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party, and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.