



Function

Rotary seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment or to transfer liquids and/or gases from a stationary part into or out of rotating machinery.

Features

- ⇒ Asymmetrical, double acting rotary seal for outside sealing, designed with interference of the O-Ring on the ID and no interference of the PTFE glide ring on the OD.
- ⇒ Excellent sealing performance at low speeds with high pressure.
- ⇒ No tendency to “stick-slip” effect.
- ⇒ Low break-away load after long standstills.
- ⇒ Good gap extrusion resistance.

Application

Slow moving shafts, pivoting movements, revolving distributors, swivel joints.
 Max. pressure 350 bar, max. speed 0.4 m/s.

Installation

Snap-in installation.
 Attention: PTFE glide rings need calibration after installation!

Seal housing recommendation

| Tolerances | [mm] | |
|--------------------------|------------------|---------------|
| L < 10mm | + 0.2 | |
| L ≥ 10mm | + 0.3 | |
| ∅ NA | H8 | |
| ∅ NI | f8 | |
| | | |
| Surface roughness | Rtmax [μ] | Ra [μ] |
| Bottom of groove | ≤ 6.3 | ≤ 1.6 |
| Face of groove | ≤ 15 | ≤ 3 |
| | | |
| Sliding surface | Rtmax [μ] | Ra [μ] |
| PU, elastomeres | ≤ 2.5 | ≤ 0.1-0.5 |
| PTFE | ≤ 2 | ≤ 0.05-0.3 |

Profile description

***Rotary Seal
R11***