



Function

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

Features

- ⇒ Asymmetrical, single acting rod seal, designed with interference of the additional stabilizing lip on the OD which provides a good static fit in the groove.
- ⇒ Increased preload due to an additional O-Ring.
- ⇒ Secondary lip on the ID for stabilising at large seal heights and reducing the residual oil film.
- ⇒ Excellent static and dynamic sealing performance.
- ⇒ Excellent performance in all pressure ranges.
- ⇒ No reverse leakage when changing direction.
- ⇒ Recommended for positioning or holding under pressure.

Application

Reciprocating rods in hydraulic cylinders, plungers, push rods, telescopic cylinders, fittings, mining cylinders, etc.

Switching or clamping functions.

Max. pressure 400 bar, max. speed 0.5 m/s.

Installation

Snap-in installation.

Seal housing recommendation

| Tolerances | [mm] | |
|-------------------|-----------|------------|
| L < 10mm | + 0.2 | |
| L ≥ 10mm | + 0.3 | |
| ∅ NA | H10 | |
| ∅ NI | f 8 | |
| | | |
| 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

***Mining Seal
R51***