



Function

Rotary seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features

- ⇒ Asymmetrical, single acting rotary seal with clamping flange.
- ⇒ Preload effected through V-spring.
- ⇒ Dynamic sealing lip shorter than static lip to avoid drag pressure.
- ⇒ Excellent static and dynamic sealing performance.
- ⇒ Useable for short and long stroke lengths.
- ⇒ Low friction in dry running or poor lubrication conditions, no stick-slip effect.

Application

Reciprocating and swivelling pistons or housings.
 Chemical and pharmaceutical industry, aggressive fluids and high temp.
 Max. pressure 150 bar, max. speed 2 m/s.

Installation

Installation in open housing.

Seal housing recommendation

| Tolerances | [mm] | |
|--------------------------|------------------|---------------|
| L < 10mm | + 0.2 | |
| L ≥ 10mm | + 0.3 | |
| ∅ NA | H9 | |
| ∅ NI | h10 | |
| | | |
| 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
PS19A