

Function

Compact piston seal set, designed to seal the hydraulic fluid between two pressurized spaces, preventing the flow of the fluid to the other side and transforming the pressure force into the movement.

Features

- Double acting piston seal, designed with interference on the ID which provides a good static fit in the groove.
- ⇒ Consisting of one gliding, energizing, two back-up and two gide elements.
- □ Useable for short and long stroke lengths.
- ⇒ Compact piston design possible
- ⇒ Good static and dynamic sealing performance.
- ⇒ Good positioning control.

Application

Reciprocating pistons in hydraulic cylinders.

Universal piston seal for double-acting cylinders.

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

Installation

Snap-in installation.

The deformation of the energizing element during installation should not exceed 30% - risk of permanent deformation!

Seal housing recommendation

| Tolerances | [mm] | |
|-------------------|-----------|------------|
| L1 | d10 | |
| L2 | D10 | |
| NH | D10 | |
| ø NA | H8 | |
| ø NI | h9 | |
| | | |
| 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

Piston Seal **PS09A**

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