



Function

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

Features

- ⇒ Symmetrical, double acting piston seal, designed with interference of the O-Rings on the ID and slight interference of the PTFE glide ring on the OD.
- ⇒ Quad ring® on the outside diameter ensures additional sealing especially at holding and positioning functions.
- ⇒ The use of two O-Rings ensures better pressure distribution on the sealing edges.
- ⇒ Good sealing function at medium separation.
- ⇒ Negligible tendency to “stick-slip” effect, good sliding properties.
- ⇒ Low break-away load after long standstills.
- ⇒ Excellent gap extrusion resistance.

Application

Reciprocating pistons in hydraulic cylinders, plungers.
 Dynamic seals in hydraulic systems.
 Max. pressure 400 bar, max. speed 3 m/s

Installation

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

Seal housing recommendation

Tolerances	[mm]	
L < 10mm	+ 0.2	
L ≥ 10mm	+ 0.3	
∅ NA	H8	
∅ NI	h8	
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
PS08D