



Function

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features

- ⇒ Symmetrical, single acting piston/rod seal, no interference on the ID or OD.
- ⇒ Special design for small cross sections where lips would be too thin.
- ⇒ Excellent static and dynamic sealing performance.
- ⇒ Excellent performance over all pressure ranges.
- ⇒ Used for short pulsating strokes.
- ⇒ No reverse leakage when changing direction.
- ⇒ Recommended for positioning or holding under pressure.
- ⇒ Particularly suitable for high viscosity media.

Application

Reciprocating pistons/rods in hydraulic cylinders, push rods, fittings etc.
 Switching or clamping functions.
 Replacement for rubber fabric seals.
 Max. pressure 400 bar, max. speed 0.3 m/s.

Installation

Snap-in installation.

Seal housing recommendation

Tolerances	[mm]	
L < 10mm	+ 0.2	
L ≥ 10mm	+ 0.3	
∅ NA (rod groove)	H10	
∅ NI (rod diam.)	f8	
∅ NA (cylinder diam.)	H9	
∅ NI (piston groove)	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

