



# **Function**

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

### **Features**

- ⇒ Asymmetrical, single acting piston seal, designed with interference on the ID which provides a good static fit in the groove.
- ⇒ Dynamic sealing lip shorter than static lip to avoid drag pressure.
- ⇒ Excellent static and dynamic sealing performance.
- ⇒ Useable for long stroke lengths.
- ⇒ Negligible tendency to "stick-slip" effect above a speed of 0.15 m/s. For lower speeds the dynamic lip should be redesigned (shorter, stiffer).

# **Application**

Reciprocating pistons in hydraulic cylinders, plungers. Universal piston seal for small extrusion gaps and minor load impacts. 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	
ø NA	H9	
ø 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