



### **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).
- ⇒ Activated back-up rings prevent and reduce gap extrusion.

# **Application**

Reciprocating pistons in hydraulic cylinders, plungers.

Universal piston seal for small extrusion gaps and minor load impacts.

Max. pressure 700 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
. acc c. g. cc. c	2 13	≥ 3
. acc c. g. cc. c	1 10	10
Sliding surface	Rtmax [µ]	Ra [μ]
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