

## **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 preload element on the ID and slight interference of the PTFE glide ring on the OD.
- ➡ High pressure force because of a machined rubber preload element. Less relative movement of the rubber part compared to an O-Ring giving the seal a higher wear resistance.
- ⇒ Excellent sealing performance in low and high speeds.
- $\Rightarrow$  Suitable for positioning functions.
- ⇒ Negligible tendency to "stick-slip" effect, good sliding properties.
- ⇒ Low break-away load after long standstills.
- ⇒ Excellent gap extrusion resistance.
- $\Rightarrow$  Can be used in grooves where no O-Ring is possible.

## **Application**

Reciprocating pistons in hydraulic cylinders, plungers in heavy-duty applications. Max. pressure 400 bar, max. speed 10 m/s.

## **Installation**

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

Seal housing recommendation			Profile description
Tolerances	[mm]		
L < 10mm	+ 0.2		
L ≥10mm	+ 0.3		
ø NA	H8		Piston Seal
ø NI	h8		
Surface roughness	Rtmax [µ]	Ra [µ]	
Bottom of groove	≤ 6.3	≤ 1.6	<b>PS81</b>
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	
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