



### **Function**

Compact piston seal set, designed to seal the hydraulic fluid between two pressurized spaces, preventing the flow of the fluid to the other side and transforming the pressure force into the movement.

### **Features**

- ⇒ Double acting piston seal, designed with interference on the ID which provides a good static fit in the groove.
- ⇒ Consisting of one gliding and energizing and two integrated back-up elements that also have guiding properties.
- ⇒ Useable for short and long stroke lengths.
- ⇒ Good static and dynamic sealing performance.
- ⇒ High frictional force.
- ⇒ No drag pressure build-up.

### **Application**

Reciprocating pistons in hydraulic cylinders.  
 Universal piston seal for double-acting cylinders.  
 Dynamic: Max. pressure 700 bar, max. speed 0.5 m/s.  
 Static: Max. pressure 1500 bar, max. speed 0.2 m/s.\*

### **Installation**

Snap-in installation.

\*) for static application the preload should be increased to 13-15% instead of 10% (dynamic)

#### **Seal housing recommendation**

<b>Tolerances</b>	<b>[mm]</b>	
L < 10mm	+ 0.2	
L > 10mm	+ 0.3	
∅ NA	H9	
∅ NI	h10	
<b>Surface roughness</b>	<b>Rtmax [μ]</b>	<b>Ra [μ]</b>
Bottom of groove	≤ 6.3	≤ 1.6
Face of groove	≤ 15	≤ 3
<b>Sliding surface</b>	<b>Rtmax [μ]</b>	<b>Ra [μ]</b>
PU, elastomeres	≤ 2.5	≤ 0.1-0.5
PTFE	≤ 2	≤ 0.05-0.3

#### **Profile description**

***Mining Seal***  
***P53***