



### **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.
- ⇒ Long sealing lip compensates for radial inaccuracy or excentricity.
- ⇒ Useable for long stroke lengths.
- ⇒ Low break-away load after long standstills.
- ⇒ Seal design tends to “stick-slip” effect.

### **Application**

Reciprocating pistons in hydraulic and pneumatic cylinders.  
 Replacement for seal designs (leather seals etc.) used in old cylinders.  
 Max. pressure 160 bar, max. speed 0.5 m/s.

### **Installation**

Clamped by flange.

#### **Seal housing recommendation**

<b>Tolerances</b>	<b>[mm]</b>	
NL	+ 0.2	
NH	+ 0.2	
∅ 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**

***Piston Seal***  
***PS16***