



### **Function**

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

### **Features**

- ⇒ Symmetrical, single acting piston/rod seal, combined with pressure ring and support ring.
- ⇒ By adjusting the number of packings friction and leakage characteristics can be influenced.
- ⇒ Excellent static and dynamic sealing performance.
- ⇒ Excellent performance in high pressure conditions.
- ⇒ Useable for short and long stroke lengths.
- ⇒ Reduced friction compared to PRS10-12 profile especially in the high pressure range.

### **Application**

Reciprocating pistons/rods in hydraulic cylinders, plungers and water hydraulics.  
Used in heavy duty applications (presses) with return stroke by equipment weight.  
Max. pressure 500 bar, max. speed 0.5 m/s.

### **Installation**

Installation in open housings.

### **Seal housing recommendation**

<b>Tolerances</b>	<b>[mm]</b>	
L < 10mm	+ 0.2	
L ≥ 10mm	+ 0.3	
Ø NA (rod groove)	H10	
Ø NI (rod diam.)	f8	
Ø NA (cylinder diam.)	H9	
Ø NI (piston groove)	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

# PS13-15