



### **Function**

Rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere, preventing leakage and pollution of the environment.

### **Features**

- ⇒ Asymmetrical, single acting rod seal, designed with interference on the OD which provides a good static fit in the groove.
- ⇒ Special design for small cross sections where lips would be too thin.
- ⇒ Secondary lip for stabilising at large seal heights and reducing the residual oil film.
- ⇒ Activated back-up ring prevents and reduces gap extrusion.
- ⇒ Excellent static and dynamic sealing performance.
- ⇒ Excellent performance over all pressure ranges.
- ⇒ Used for short pulsating strokes.
- ⇒ No reverse leakage when changing direction.
- ⇒ Recommended for positioning or holding under pressure.
- ⇒ Particularly suitable for high viscosity media.

### **Application**

Reciprocating pistons/rods in hydraulic cylinders, push rods, fittings etc.  
 Switching or clamping functions.  
 Replacement for rubber fabric seals.  
 Max. pressure 400 bar, max. speed 0.3 m/s.

### **Installation**

Snap-in installation.

We recommend to maintain a nominal width/seal height ration (CS/NH) above 1/1,25.

#### **Seal housing recommendation**

<b>Tolerances</b>	<b>[mm]</b>	
L < 10mm	+ 0.2	
L ≥ 10mm	+ 0.3	
∅ NA	H10	
∅ NI	f 8	
<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**

***Rod Seal  
RS17D***