



**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 of the O-Ring on the OD and slight interference of the PTFE glide ring on the ID.
- ⇒ Excellent sealing performance in low and high speeds.
- ⇒ Suitable for positioning functions.
- ⇒ Negligible tendency to “stick-slip” effect, good sliding properties.
- ⇒ Low break-away load after long standstills.
- ⇒ Excellent gap extrusion resistance due to the free space on the trailing side.

**Application**

Reciprocating rods in hydraulic cylinders, plungers.  
 Dynamic seals in hydraulic systems.  
 Max. pressure 400 bar, max. speed 10 m/s.  
 Tandem arrangement possible.

**Installation**

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

**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  
 RS09***