



### **Function**

Rotary seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

### **Features**

- ⇒ Asymmetrical, single acting rotary seal with clamping flange.
- ⇒ Preload effected through V-spring.
- ⇒ Dynamic sealing lip shorter than static lip to avoid drag pressure.
- ⇒ Excellent static and dynamic sealing performance.
- ⇒ Useable for short and long stroke lengths.
- ⇒ Low friction in dry running or poor lubrication conditions, no stick-slip effect.

### **Application**

Reciprocating and swivelling shafts.  
 Chemical and pharmaceutical industry, aggressive fluids and high temp.  
 Max. pressure 150 bar, max. speed 2 m/s.

### **Installation**

Installation in open housing.

#### **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**

***Rotary Seal***  
***RS19A***