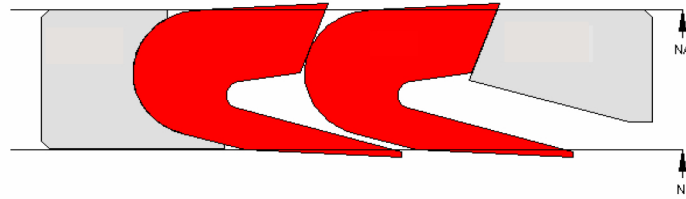


# Profile Data

## Rod Seal RS31-33



### **Function**

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

### **Features**

- ⇒ Asymmetrical, single acting rod seal, combined with pressure ring and support ring.
- ⇒ By adjusting the number of packings friction and leakage characteristics can be influenced.
- ⇒ Excellent dynamic and good static sealing performance.
- ⇒ Excellent performance in high pressure conditions.
- ⇒ Especially used for long stroke lengths.
- ⇒ Low friction due to flexible lip design.

### **Application**

Reciprocating rods in hydraulic cylinders, plungers, cylinders with very long strokes etc. as a replacement of fabric reinforced rubber seals.

Used in heavy duty applications (presses) with return stroke by equipment weight.

Max. pressure 500 bar, max. speed 0.5 m/s.

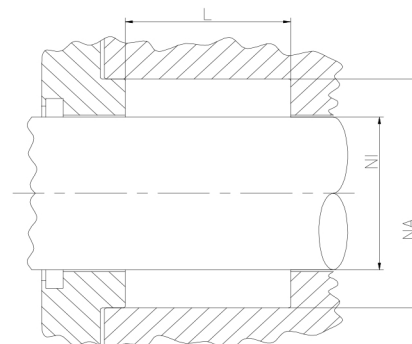
### **Installation**

Installation normally in open housings.

At closed housings the parts need to be split. In this case the seal must be done slightly larger (approx. 1% in diameter)

### **Seal housing recommendation**

<b>Tolerances</b>	<b>[mm]</b>	
L < 10mm	+ 0.2	
L ≥ 10mm	+ 0.3	
∅ NA	H10	
∅ NI	f8	
<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, elastomer	≤ 2.5	≤ 0.1-0.5
PTFE	≤ 2	≤ 0.05-0.3



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