



### **Function**

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

#### **Features**

- ⇒ friction optimized asymmetrical, single acting rod seal, combined with pressure ring and support ring.
- special vee design to assure a sufficient lubrication for the whole packing. Additional groove on the dynamic lip to reduce the contact surface and also working as a grease depot.
- ⇒ By adjusting the number of vee's friction characteristics can be influenced recommendation max. 4 vee's.
- ⇒ Excellent static and dynamic sealing performance.
- ⇒ Useable for short and long stroke lengths.
- ⇒ High wear resistance.

# **Application**

Reciprocating rods in hydraulic cylinders, plungers etc.

Used in heavy duty applications (presses) with return stroke by equipment weight. Max. pressure 400 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**

Tolerances	[mm]	
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	
Surface roughness	Rtmax [µ]	Ra [µ]
Bottom of groove	≤ 6.3	≤ 1.6
Face of groove	≤ 15	≤ 3
Face of groove	≤ 15	≤ 3
Face of groove  Sliding surface	≤ 15 <b>Rtmax [μ]</b>	≤ 3 <b>Ra [µ]</b>
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# **Profile description**

Rod Seal **RS10\_12B** 

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