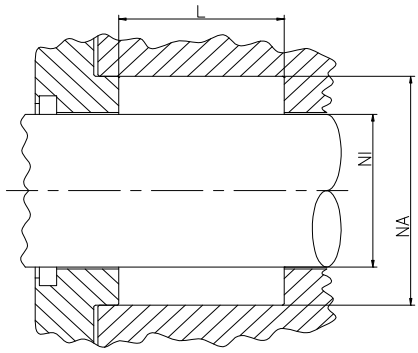

Function

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 flexiple 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

Tolerances	**[mm]**	
L < 10mm	+ 0.2	
L ≥10mm	+ 0.3	
⌀ NA	H10	
⌀ NI	f8	
Surface roughness	**Rtmax [µ]**	**Ra [µ]**
Bottom of groove	≤ 6.3	≤ 1.6
Face of groove	≤ 15	≤ 3
Sliding surface	**Rtmax [µ]**	**Ra [µ]**
PU, elastomeres	≤ 2.5	≤ 0.1-0.5
PTFE	≤ 2	≤ 0.05-0.3

Profile description

Rod Seal

RS31-33

09.April.2009