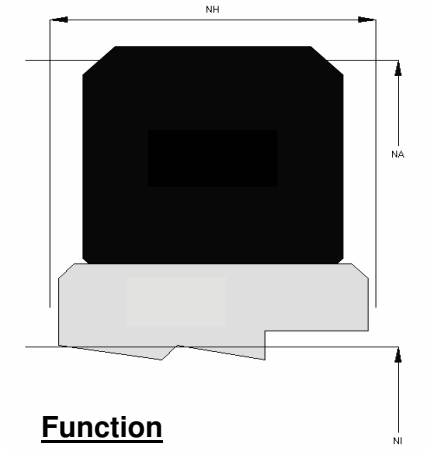

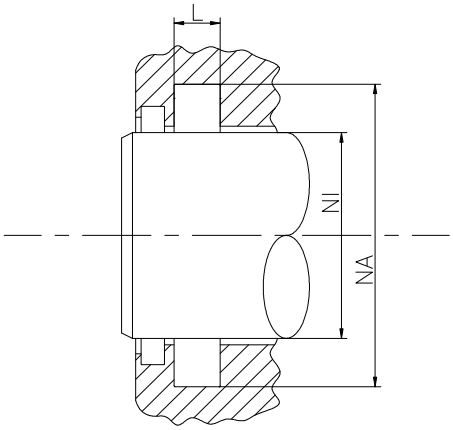

Function

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 preload element on the OD and slight interference of the PTFE glide ring on the ID.
- ⇨ High pressure force because of a machined rubber preload element. Less relative movement of the rubber part compared to an O-Ring giving the seal a higher wear resistance.
- ⇨ 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.
- ⇨ Can be used in grooves where no O-Ring is possible.

Application

Reciprocating rods in hydraulic cylinders, plungers in heavy-duty applications.
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

Tolerances	**[mm]**	
L < 10mm	+ 0.2	
L ≥10mm	+ 0.3	
ø NA	H10	
ø NI	f 8	
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

RS91

05.Mar.2008