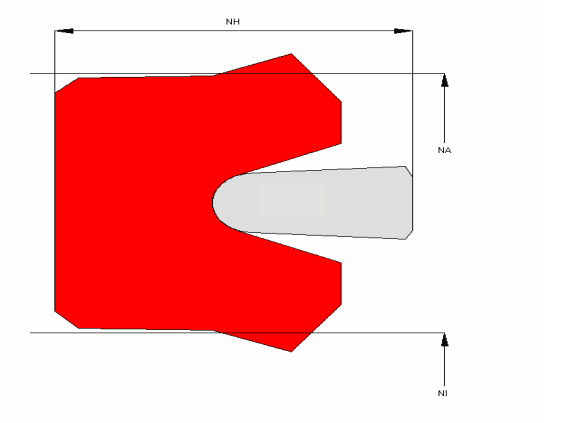

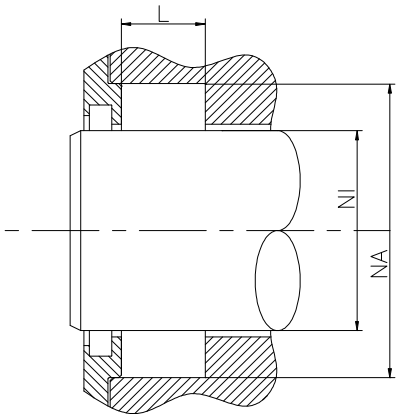

Function

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

Features

- ⇨ Symmetrical, single acting piston/rod seal, no interference on the ID or OD.
- ⇨ Stabilisation of the sealing ring by an additional retainer ring.
- ⇨ Excellent static and dynamic sealing performance.
- ⇨ Excellent performance in low pressure conditions.
- ⇨ Useable for long stroke lengths.
- ⇨ Negligible tendency to “stick-slip” effect above a speed of 0.15 m/s.

Application

Reciprocating pistons/rods in hydraulic cylinders, plungers etc.
Replacement for rubber fabric seals of older machineries.
Max. pressure 400 bar, max. speed 0.5 m/s.

Installation

Installation in open housings

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
Sliding surface	**Rtmax [µ]**	**Ra [µ]**
PU, elastomeres	≤ 2.5	≤ 0.1-0.5
PTFE	≤ 2	≤ 0.05-0.3

DS22