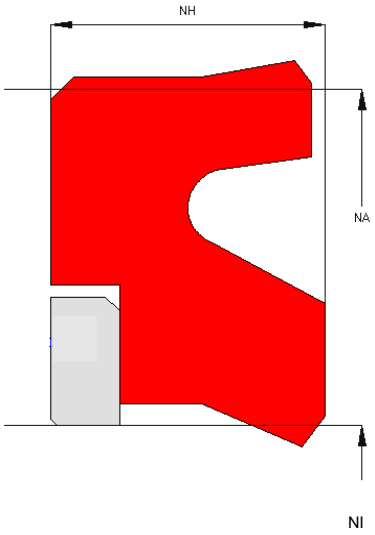

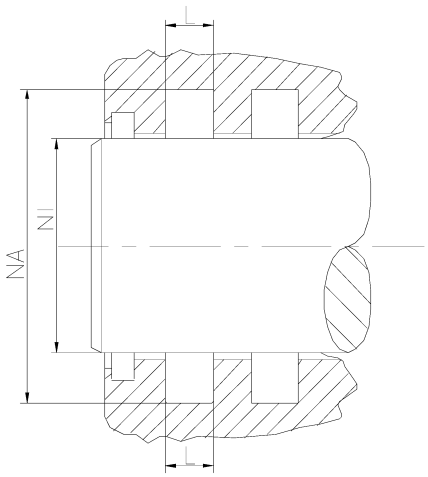

Function

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 with anti extrusion ring, designed with interference on the OD which provides a good static fit in the groove.
- ⇨ Primary seal in tandem arrangements of heavy duty applications.
- ⇨ Thin and flexible static lip to enable pressure relief, built up between primary and secondary seal.
- ⇨ Replacement for the primary O-Ring energised rod seals in tandem arrangements.
- ⇨ Not recommended as single/main seal in sealing systems.
- ⇨ Suitable for high pressure peaks at about 700 bar.
- ⇨ Radial grooves on the sealing lip recommended to reduce any risk of „blow-by“.
- ⇨ Useable for long stroke lengths.

Application

Primary seal in tandem arrangements in hydraulic cylinders for construction machines, draulic excavators or earthmoving equippment.
Max. regular pressure 400 bar (peaks up to 700bar), max. speed 1 m/s, depending on material selection.

Installation

Snap-in 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

RS02C

May 14th, 2014