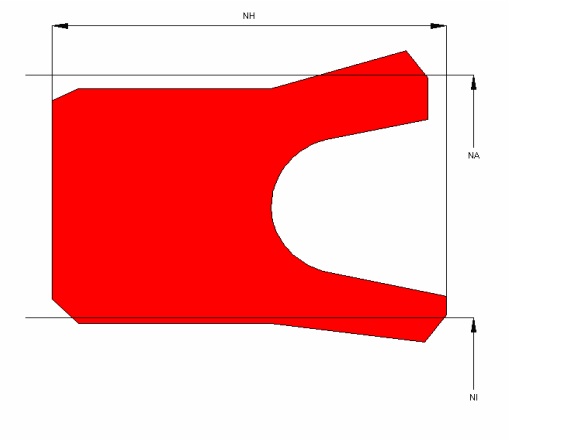

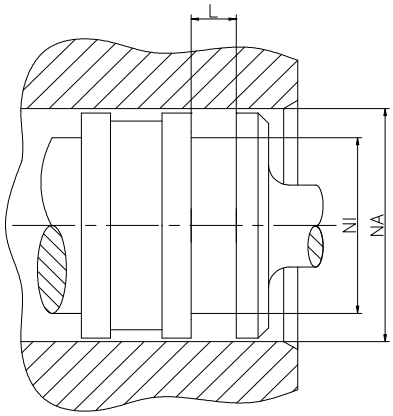

Function

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

Features

- ⇨ Asymmetrical, single acting piston seal, designed with interference on the ID which provides a good static fit in the groove.
- ⇨ Dynamic sealing lip shorter than static lip to avoid drag pressure.
- ⇨ Wider groove and softer lips compared to PS01.
- ⇨ Excellent static and dynamic sealing performance.
- ⇨ Useable for long stroke lengths.
- ⇨ Negligible tendency to “stick-slip” effect above a speed of 0.15 m/s.

Application

Reciprocating pistons in hydraulic cylinders, plungers where low friction is required
Universal piston seal for small extrusion gaps and minor load impacts.
Max. pressure 160 bar, max. speed 0.5 m/s.

Installation

Snap-in installation.

Seal housing recommendation

Tolerances	**[mm]**	
L < 10mm	+ 0.2	
L ≥10mm	+ 0.3	
ø NA	H9	
ø NI	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

Profile description

Piston Seal

PS01A

21.Feb.2008