

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 of the O-Ring on the ID and slight interference of the PTFE glide ring on the OD.
- 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

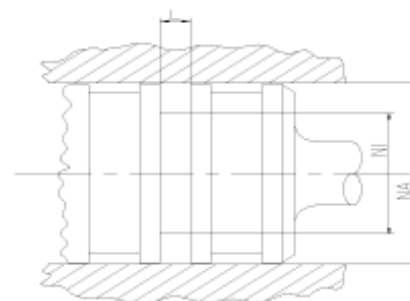
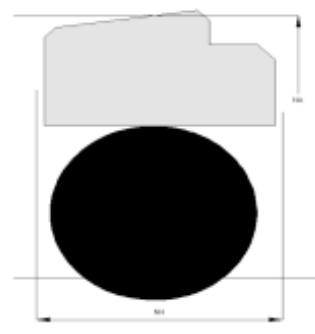
Application:

Reciprocating pistons in hydraulic cylinders, plungers.

Dynamic seals in hydraulic systems.

Tandem arrangement possible.

Max. pressure 400 bar, max. speed 15 m/s.

**Seal housing recommendation:**

Tolerances	[mm]	
L < 10mm	+0.2	
L ≥ 10mm	+0.3	
Ø NA	H8	
Ø NI	h8	

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

Installation:

Snap-in installation

Attention: PTFE glide rings needs calibration after installation!