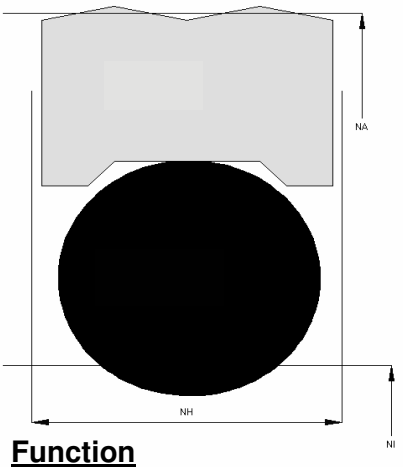

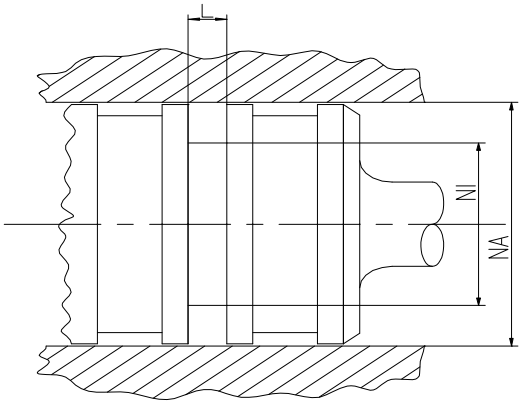

Function

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

Features

- ⇨ Asymmetrical, double acting piston seal, designed with interference of the O-Ring on the ID and slight interference of the glide ring on the OD.
- ⇨ Glide ring in very wear resistent hard grade polyurethane (PU-D57).
- ⇨ Excellent sealing performance in low and high speeds.
- ⇨ Suitable for positioning and holding functions.
- ⇨ Negligible tendency to “stick-slip” effect.
- ⇨ Low break-away load after long standstills.
- ⇨ Good gap extrusion resistance.

Application

Reciprocating pistons in hydraulic cylinders, plungers.
Dynamic seals in hydraulic systems.
Max. pressure 250 bar, max. speed 1 m/s

Installation

Snap-in installation.

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

PS8F