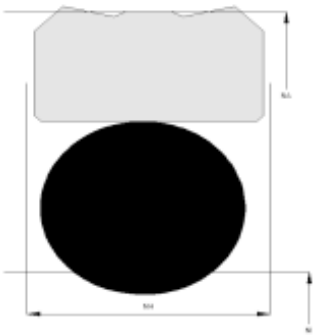
Piston Seal

XSPS08A

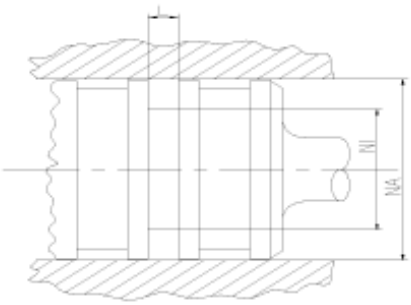
Function:

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.
- Two external sealing edges working as a primary seal and reducing the risk of the blow-by effect.
- Central back-up and sealing bulge.
- Glide ring in very wear resistent hard grade polyurethane (PU-D57).
- 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

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