

Piston Seal

XSPS08C

Function:

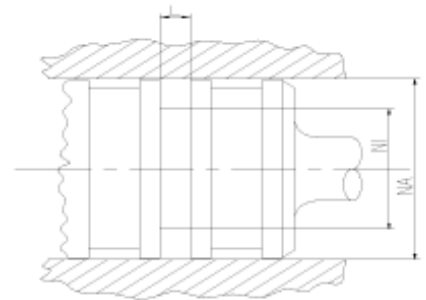
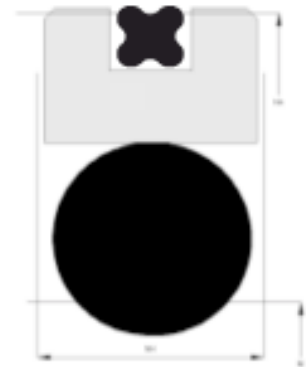
Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Asymmetrical, double acting piston seal, designed with interference of the O-Ring on the ID and slight interference of the PTFE glide ring on the OD.
- Quad ring[®] on the outside diameter ensures additional sealing especially at holding and positioning functions.
- Good sealing function at medium separation.
- Negligible tendency to “stick-slip” effect, good sliding properties.
- Low break-away load after long standstills.
- Excellent gap extrusion resistance.

Application:

Reciprocating pistons in hydraulic cylinders, plungers.
Dynamic seals in hydraulic systems.
Max. pressure 400 bar, max. speed 2 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 need calibration after installation!