

Piston Seal

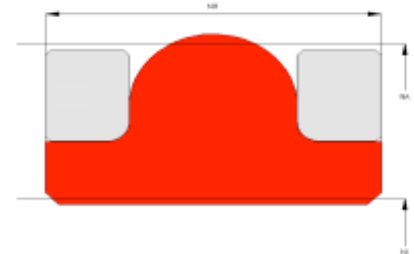
XSPS20

Function:

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

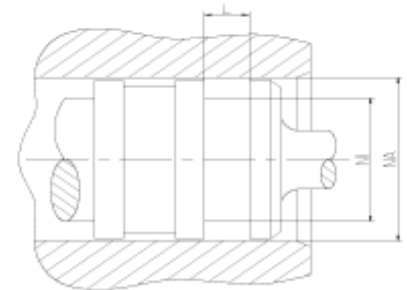
Features:

- Asymmetrical, double acting compact piston seal, designed with interference on the ID which provides a good static fit in the groove.
- Excellent static and dynamic sealing performance.
- Excellent performance in low pressure conditions.
- Negligible tendency to “stick-slip” effect.
- High break-away load after long standstills.
- Activated back-up rings reduce gap extrusion and prevent twisting of the seal in the groove.



Application:

Reciprocating pistons in hydraulic cylinders, plungers.
 Static and dynamic seals in hydraulic systems, replacement for O-Rings (no twisting or pumping).
 Max. pressure 700 bar, max. speed 0.5 m/s



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

Installation:

Snap-in installation.