

Piston Seal

XSPS19

Function:

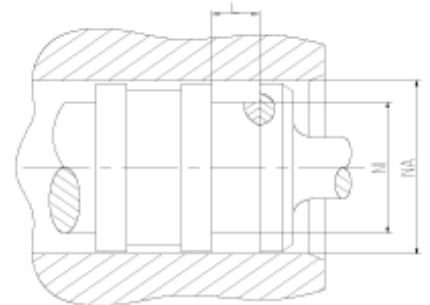
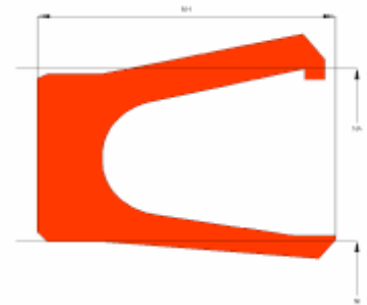
Piston seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Asymmetrical, single acting piston seal, designed with no interference on the static sealing diameter.
- Preload effected through V-spring.
- Dynamic sealing lip shorter than static lip to avoid drag pressure.
- Excellent static and dynamic sealing performance.
- Useable for short and long stroke lengths.
- Low friction in dry running or poor lubrication conditions.
- Negligible tendency to “stick-slip” effect, small break away loads.

Application:

Reciprocating and swivelling pistons in hydraulic cylinders, plungers. Chemical and pharmaceutical industry, aggressive fluids and high temp. Max. dyn. pressure 450 bar, speed 1 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:

Installation in open housing, snap-in installation possible in special designed housings.