

Piston-/Rod Seal XSPRS19

Function:

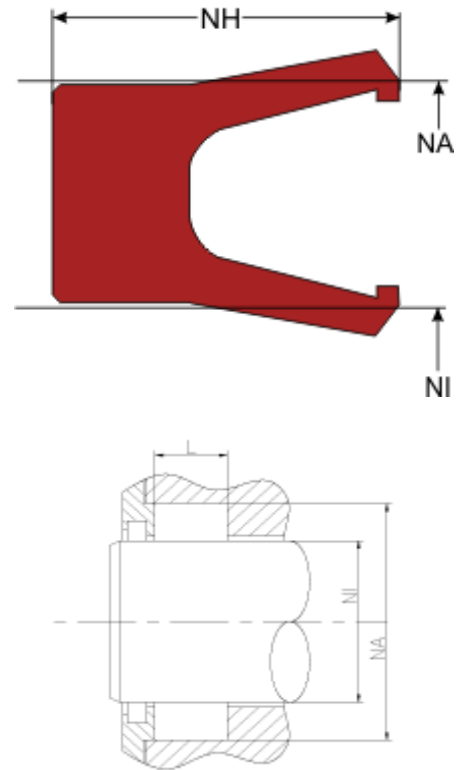
Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features:

- Symmetrical, single acting seal, no interference on the ID or OD.
- For use as rod or piston seal
- Preload effected through V-spring which ensures the continious pressure on the sealing lips.
- Retainer nose on inside and outside lip.
- Excellent static and dynamic sealing performance.
- Excellent sealing performance in low and high pressure ranges.
- 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 < 10 mm	+ 0,2	
L e 10 mm	+ 0,3	
Ø NA (rod groove)	H10	
Ø NI (rod diam.)	f 8	
Ø NA (cylinder diam.)	H9	
Ø NI (piston groove)	h10	

Surface roughness	Rtmax [μ]	Ra [μ]
Bottom of groove	d 6,3	d 1,6
Face of groove	d 15	d 3

Sliding surface	Rtmax [μ]	Ra [μ]
PU, elastomeres	d 2,5	d 0,1 – 0,5
PTFE	d 2	d 0,05 – 0,3

Installation:

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

We recommend to maintain a nominal width/seal height ration (CS/NH) above 1/1,5