

Piston-/Rod Seal

XSPRS18

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 piston/rod seal, no interference on the ID or OD.
- Increased preload due to an additional O-Ring.
- Sharp lips for use in high viscosity media.
- Excellent static and dynamic sealing performance.
- Good performance in all pressure ranges.
- Used for short pulsating strokes.
- No reverse leakage when changing direction.
- Recommended for positioning or holding under pressure.

Application:

Reciprocating pistons/rods in hydraulic cylinders, plungers etc.

Switching or clamping functions.

Replacement for rubber fabric seals.

max. speed	max. pressure	material
0.5 m/s	400 bar (40 MPa)	all HPU typen
0.7 m/s	400 bar (40 MPa)	HPU94 GM
0.5 m/s	160 bar (16 MPa)	all Elastomer types

For higher speed or pressure please ask our technical department.

Seal housing recommendation:

Tolerances	[mm]
L < 10 mm	+ 0.2
L ≥ 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	≤ 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.

