

Piston Seal XSPS81C

Function:

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

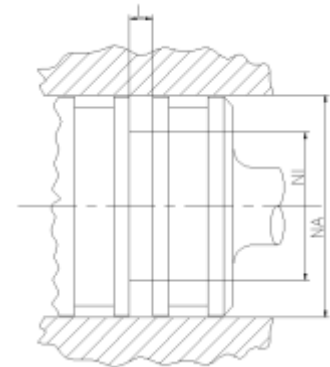
Features:

- Symmetrical, double acting piston seal, designed with two define sealing edges on the profile ring to lower the friction.
- High pressure force because of a machined rubber preload element.
- Less relative movement of the rubber part compared to an O-Ring giving the seal a higher wear resistance.
- Excellent sealing performance also in low pressure range.
- Suitable for positioning functions.
- Almost no tendency to “stick-slip” effect, good sliding properties.
- Low break-away load after long standstills.
- Excellent gap extrusion resistance.
- Can be used in grooves where no O-Ring is possible.



Application:

Reciprocating pistons in hydraulic cylinders, plungers in heavy-duty applications where now PTFE Compound is needed.
Max. pressure 400 bar, max. speed 10 m/s.



Seal housing recommendation:

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

Installation:

Snap-in installation.