

Piston Seal XSC2

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 for hydraulic applications, designed with interference on the ID which provides a good static fit in the groove.
- Shortened sealing lip decreases contact area to the sealing surface thus resulting in reduced friction.
- Use in applications with lubricated air is possible.
- Small and compact housings possible.
- Useable for long stroke lengths.
- Negligible tendency to “stick-slip”, small break-away loads after long standstill.

Application:

Reciprocating pistons in hydraulic cylinders.

Universal piston seal for small extrusion gaps and minor load impacts.

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	+0.2
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	$\leq 0.1 - 0.5$
PTFE	≤ 2	$\leq 0.05 - 0.3$

Installation:

Snap-in installation.

