



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. pressure 400bar, max. speed 0,5 m/s.

Installation

Snap-in installation.

Seal housing recommendation

Tolerances	[mm]	
L	+ 0.2	
ø NA	H 9	
ø NI	h10	
Surface Rouges	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

Profile description

***Piston Seal
PS01C***