

Piston Seal XSPS35

Function:

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

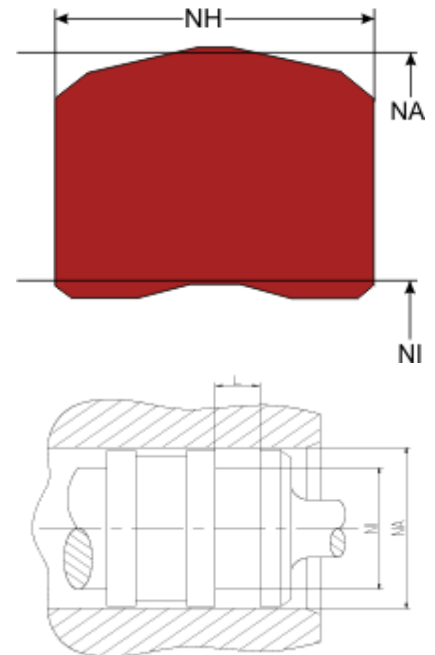
Features:

- Asymmetrical, double acting compact piston seal, designed with interference on the ID which provides a good static fit in the groove.
- Excellent static and dynamic sealing performance.
- Excellent performance in low pressure conditions.
- For rotary applications the interference on the ID has to be increased (better static fit to reduce the danger of the seal rotating in the housing), the preload has to be reduced (lower friction).

Application:

Reciprocating pistons in hydraulic cylinders, plungers.

Static and dynamic seals in hydraulic systems, replacement for O-Rings (no twisting or pumping), alternative design for composite piston seals (PTFE + O-Ring energizer).



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	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	≤ 0.1 - 0.5
PTFE	≤ 2	≤ 0.05 - 0.3

Installation:

Snap-in installation.