



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.
- ⇒ Long sealing lip compensates for radial inaccuracy or excentricity.
- ⇒ Useable for long stroke lengths.
- ⇒ Low break-away load after long standstills.
- ⇒ Seal design tends to “stick-slip” effect.

Application

Reciprocating pistons in hydraulic and pneumatic cylinders.
 Replacement for seal designs (leather seals etc.) used in old cylinders.
 Max. pressure 160 bar, max. speed 0.5 m/s.

Installation

Clamped by flange.

Seal housing recommendation

Tolerances	[mm]	
NL	+ 0.2	
NH	+ 0.2	
∅ NA	H9	
∅ 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

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