



Function

Symmetrical piston/rod seals are designed to seal the pressurized hydraulic fluid against the atmosphere or between two pressurized spaces.

Features

- ⇒ Symmetrical, single acting piston/rod seal, combined with pressure ring and supporting ring.
- ⇒ Special lip geometry for packings out of PTFE or other non elastic materials.
- ⇒ By adjusting the number of packings friction and leakage characteristics can be influenced.
- ⇒ Designed for low pressure ranges up to 100bar.
- ⇒ Excellent static and dynamic sealing performance.
- ⇒ Useable for short and long stroke lengths.
- ⇒ High wear resistance.

Application

Reciprocating pistons/rods in hydraulic cylinders, plungers, etc. in the pharma, chemical or food industry, high temperature applications.
Max. pressure 100 bar, max. speed 1.5 m/s.

Installation

Open housings are recommended, the axial contact force on the individual parts usually is generated by a spring element.

Seal housing recommendation

Tolerances	[mm]	
L < 10mm	+ 0.2	
L ≥ 10mm	+ 0.3	
∅ NA (rod groove)	H10	
∅ NI (rod diam.)	f 8	
∅ NA (cylinder diam.)	H9	
∅ NI (piston groove)	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, elastomers	≤ 2.5	≤ 0.1-0.5
PTFE	≤ 2	≤ 0.05-0.3

Profile description

Piston-/Rod Seal
PRS25-27