

# **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, no interference on the ID or OD.
- ⇒ Preload effected through Helicoil-spring which ensures high pressure on the rounded sealing lips..
- ⇒ Excellent static and dynamic sealing performance.
- ⇒ Excellent sealing performance in low and high pressure ranges.
- ⇒ Useable for short and long stroke lengths.
- ⇒ Low friction in dry running or poor lubrication conditions.
- ⇒ Also used for gas applications.
- ⇒ Negligible tendency to "stick-slip" effect, small break away loads.

# **Application**

Reciprocating and swivelling pistons in hydraulic cylinders, plungers. Chemical and pharmaceutical industry, aggressive fluids and high temp. Max. pressure 160 bar, max. speed 5 m/s linear; 0,1m/s rotating.

#### Installation

Installation in open housing, snap-in installation possible in special designed housings.

We recommend to maintain a nominal width/seal height ration (CS/NH) above 1/1,5.

### Seal housing recommendation

Tolerances	[mm]	
L < 10mm	+ 0.2	
L ≥10mm	+ 0.3	
Ø NA (rod groove)	H10	
Ø NI (rod diam.)	f8	
Ø NA (cylinder diam.)	H9	
Ø NI (piston groove)	h10	
Surface roughness	Rtmax [µ]	Ra [µ]
D - H	,	- 1 0
Bottom of groove	≤ 6.3	≤ 1.6
Face of groove	≤ 6.3 ≤ 15	≤ 1.6 ≤ 3
Face of groove	≤ 15	≤ 3

