

HLR 7970

Stick Pilot / Pressure Sensor

Design Features:

Dimensions:
1.750" Dia. X 8.000" L.

Working Pressure:
Sensed Inlet -
10 - 10,000 PSIMax

Connections:
Sensed Inlet -
1/2"-14 MNPT
1/8"-27 FNPT
Control -
1/4"-18 FNPT

Weight:
3.5 lbs.

Panel Mount Detail:
1 5/8" diameter
hole required

Well suited for applications where small deadband - near immediate reset are required

Can be configured in either 3-way block and bleed or 2-way bleed service.

The HLR 7970 Pressure Sensor is a pressure balance spool control valve used to respond to a predetermined pressure setting. In the Pressure Safety Low (PSL) mode, the valve functions as a 3-way, normally closed, block and bleed control. When used in the Pressure Safety High (PSH) mode, it functions as a 3-way, normally open, block and bleed control.

The HLR 7970 is a unique self-contained control device capable of responding to set pressure points from 10 to 10,000 PSI (0.69-689.50 Bar) and can be used in control circuits with 30-125 PSI pneumatic or hydraulic instrument supply pressure.

Requires no additional springs or pistons for any setpoint from 10 - 10,000 psig



Designed for use as either a High Pressure Sensor (PSH) or a Low Pressure Sensor (PSL), each with an adjustment range of 10-10,000 psi.

The HLR/Moncus pressure sensors are commonly referred to as 'Stick Pilots'. They have field proven dependability and are especially well suited for use in harsh environments.



Call for information regarding the 7970LPR set. Hi/Lo pressure shutdown with manual LPSP bypass for startup.

Peterson Instruments

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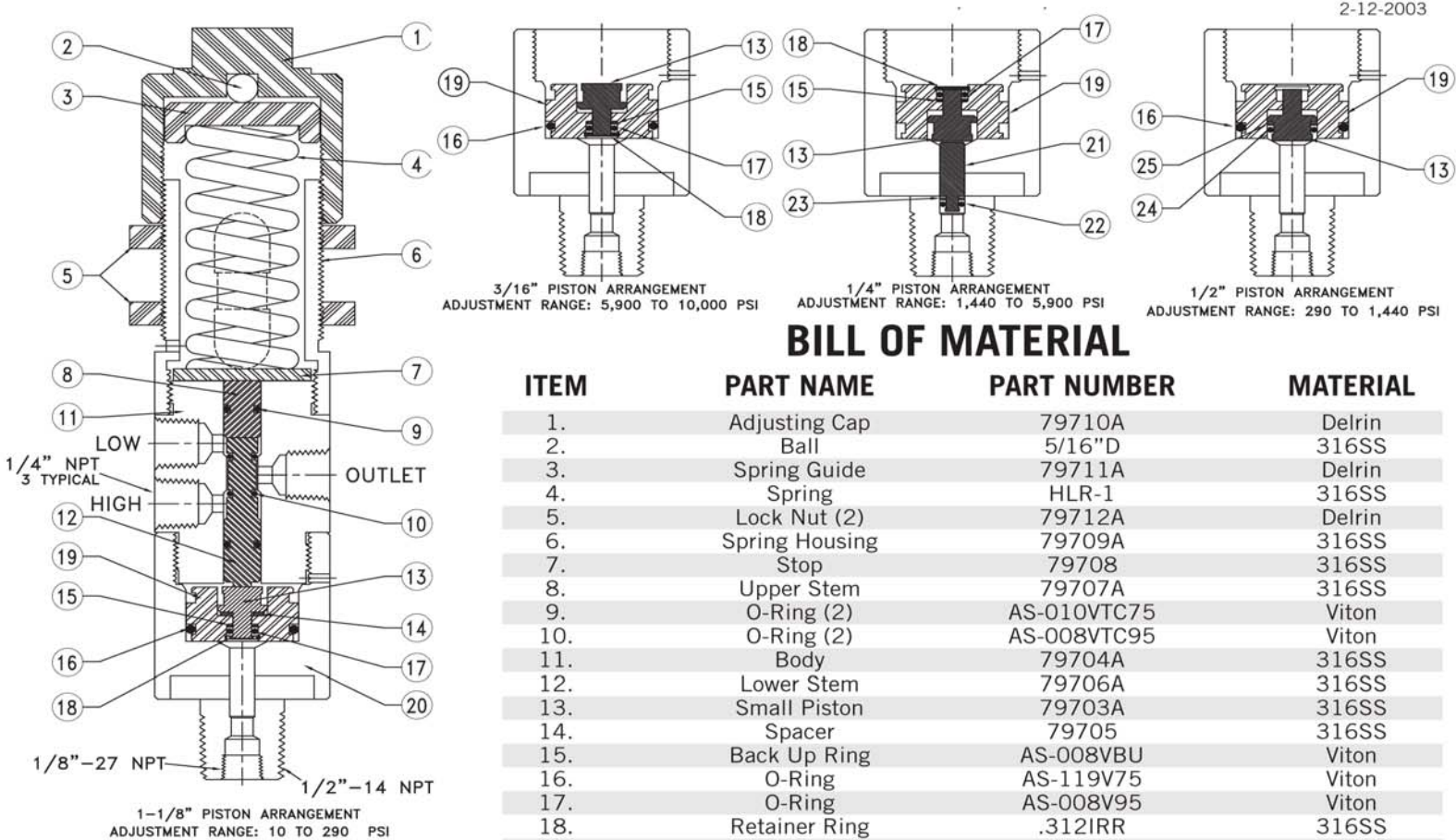
HLR 7970

A SELF CONTAINED UNIT

For Pressures From 10 to 10,000 PSI (0.69 - 689.50 Bar)

30-125 PSI Pneumatic or Hydraulic Instrument Supply

The piston arrangement and pressure range may be obtained through a combination of rearranging the components in the current piston assembly and utilizing components in the storage tube.



BILL OF MATERIAL

ITEM	PART NAME	PART NUMBER	MATERIAL
1.	Adjusting Cap	79710A	Delrin
2.	Ball	5/16"D	316SS
3.	Spring Guide	79711A	Delrin
4.	Spring	HLR-1	316SS
5.	Lock Nut (2)	79712A	Delrin
6.	Spring Housing	79709A	316SS
7.	Stop	79708	316SS
8.	Upper Stem	79707A	316SS
9.	O-Ring (2)	AS-010VTC75	Viton
10.	O-Ring (2)	AS-008VTC95	Viton
11.	Body	79704A	316SS
12.	Lower Stem	79706A	316SS
13.	Small Piston	79703A	316SS
14.	Spacer	79705	316SS
15.	Back Up Ring	AS-008VBU	Viton
16.	O-Ring	AS-119V75	Viton
17.	O-Ring	AS-008V95	Viton
18.	Retainer Ring	.312IRR	316SS
19.	Large Piston	79702MSG	316SS
20.	Piston Housing	79701A	316SS
21.	1/4" Piston	79713A	316SS
22.	O-Ring	AS-006V95	Viton
23.	Back Up Ring	AS-006VBU	Viton
24.	O-Ring	AS-012V75	Viton
25.	Back Up Ring	AS-012VBU	Viton

Other 7970 Series Models available:

- 7970-20M - 2,000-20,000 PSI Adjustment Range with 9/16 Medium Pressure Conn
- 7970-20H - 2,000-20,000 PSI Adjustment Range with 9/16 High Pressure Conn
- 7970T - Teflon "wetted" O-rings, NACE Certified
- 7970LP - Low Pressure, 2-50 PSI adjustment range
- 7970H-A - Offset instrument controls ports for 3/8 tubing
- 7970SS - All stainless steel (316SS)
- 7970DSS - Duplex stainless steel "wetted" parts

CAUTION

- Do not disassemble while under pressure.
- Remove spring tension to assemble or disassemble spring housing from body.
- Do not plug control ports.

NOTE: A. Instrument Supply pressure 30-125 PSI Pneumatic or Hydraulic.
B. Extra parts for changing piston arrangements are stored in tube.

- Instrument CV Factor: 0.35
Dead Band: 3-5% of Pressure Setting.

- Pressure Setting Repeatability Factor:
within 1% of Pressure Setting.

"HIGH" Application (PSH) (Pressure Increasing/Rising) | "LOW" Application (PSH) (Pressure Decreasing/Falling)

Connection - Function

H - Supply INlet
L - Exhaust
O - Outlet (Output)

Connection - Function

L - Supply INlet
H - Exhaust
O - Outlet (Output)