

HLR 7970 High/Low Pressure Sensor

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 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.



Design Features:

Dimensions: 1.750" Dia. X 8.000" L.

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

Connections: Sensed Inlet - 1/2"-14 NPT"M"

1/8"-27 NPT "F"

Control 1/4"-18 NPT "F"

Weight: 3.5 lbs.

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

High / Low Pressure Sensor

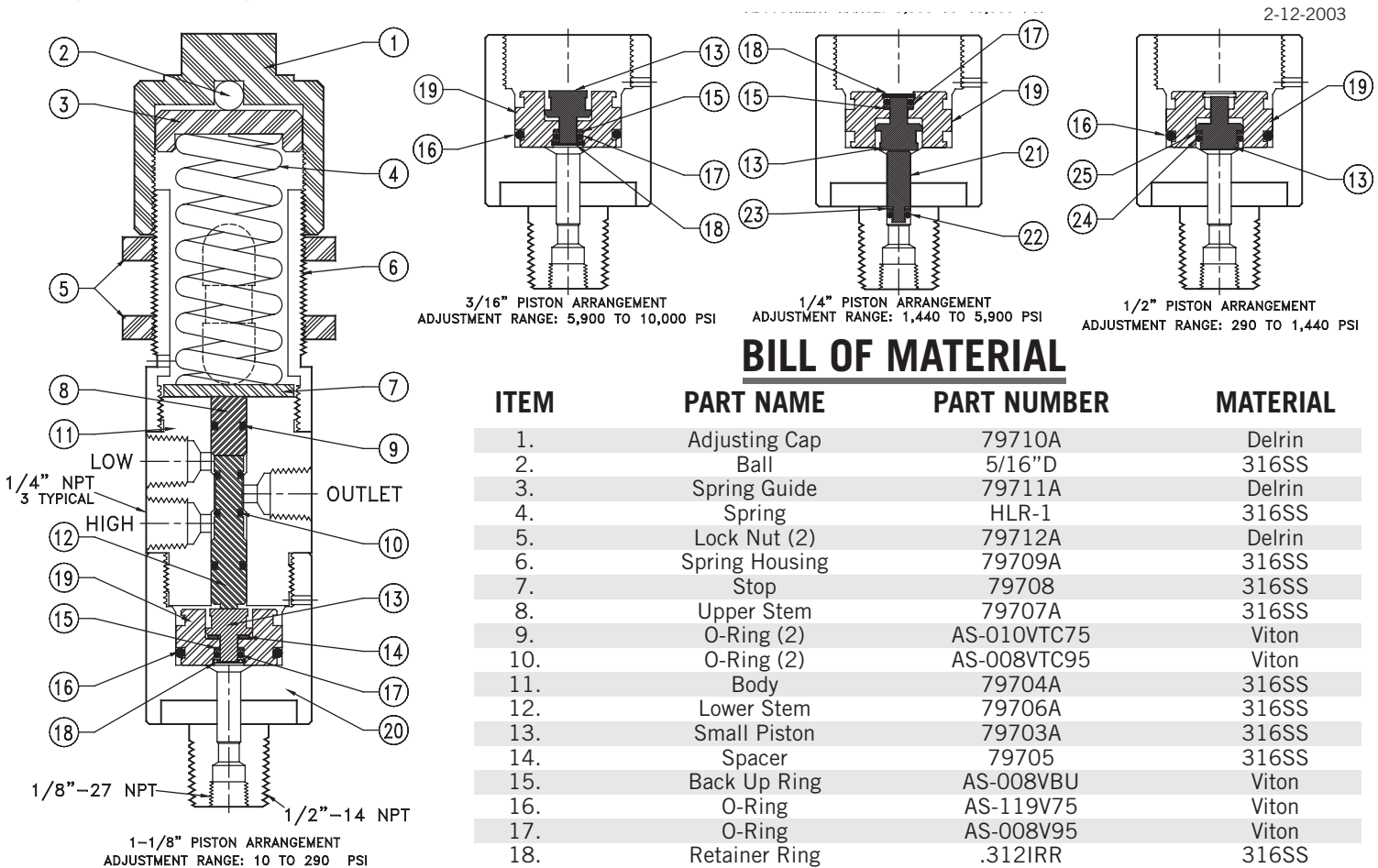
HLR 7970

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.



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

1. Do not disassemble while under pressure.
2. Remove spring tension to assemble or disassemble spring housing from body.
3. 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) "LOW" Application (PSH)
 (Pressure Increasing/Rising) (Pressure Decreasing/Falling)

Connection - Function

H - Supply INlet

L - Exhaust

0 - Outlet (Output)

Connection - Function

L - Supply INlet

H - Exhaust

0 - Outlet (Output)