



72 Series Compact Pressure Sensors

Block & Bleed Universally Ported Pilots

The **72KS Series Pressure Sensors** are a two position, three-way block and bleed (universally ported) pressure monitoring Flow Line Pilot. It can be connected to respond as either a High (rising/ increasing) or Low (falling/ decreasing) pressure sensing device. In the **Pressure Safety High (PSH)** application, the Pilot is designed to lose instrument supply output whenever the high-pressure setting is exceeded. Employed in the **Pressure Safety Low (PSL)** mode of operation, the pressure sensor will gain instrument supply output whenever the low-pressure setting is surpassed.

Three-way Block & Bleed Pilots are used to initiate safety valve closure and safeguard facilities upon detection of either an abnormal high or low process pressure. In other applications, they are used to start/stop control sequences within particular pressure range limits.

Product Specifications

Flow Control Application: Low Pilot (PSL) Normally Closed, High Pilot (PSH) Normally Open

Control Function: Three-Way (Block & Bleed)

Piston Sensor Size: .187" to 1.25"

Adjustment Range Capability: Per Spring charts

Panel Mount: 1-1/2 Diameter

Control Ports Pressure: 150 PSI (10.34 bar) maximum

Flow Line: 6,000 PSI (413 bar) maximum

Seal Material: Viton

Instrument Supply Media (Control Ports): Pneumatic, Hydraulic

Instrument Supply Media (Flow Line): Process Fluids, Natural Gas, Hydraulic or Pneumatic

Connection Size: 1/4-18 Female N.P.T. Control Ports, 1/2-14 Male N.P.T. Flow Line connection

Component Material (Metal): 316 Stainless Steel

Weight: 5.5 Lbs.

Operating Temperature: -20° F to +250° F (-29° C to +121° C)

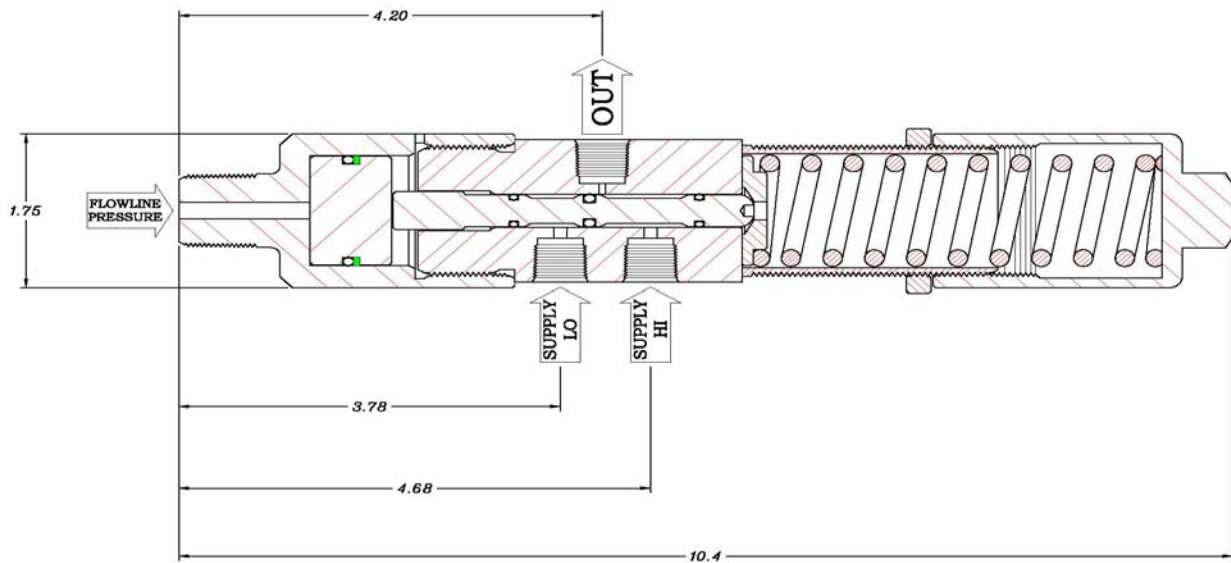
Overall Dimensions: 10.4 Height (Max.at lowest setting) x 1.75" Diameter





72 Series Available Pressure Ranges

Sensor Size	Spring Pressure Ranges Set Pressures			
	72K27		72K37	
	Minimum	Maximum	Minimum	Maximum
3/16 (.187)	n/a	n/a	5000	10000
1/4 (.250)	800	5700	n/a	n/a
3/8 (.375)	360	2540	n/a	n/a
7/16 (.437)	260	1880	n/a	n/a
1/2 (.500)	200	1400	n/a	n/a
5/8 (.625)	130	900	n/a	n/a
3/4 (.750)	90	630	n/a	n/a
7/8 (.875)	66	465	n/a	n/a
1.0"	50	350	n/a	n/a
1.25"	30	230	n/a	n/a



While this information is presented in good faith and believed to be accurate, Sigma Valves does not guarantee satisfactory results from reliance upon such information. Nothing contained herein is to be constructed as a warranty or guarantee, expressed or implied, regarding the performance, merchantability, and fitness with respect to the products. Sigma Valves reserves the right, without notice, to alter or improve the designs or specifications of the products described herein.