Flex-Valve®

Pressure Isolation Rings
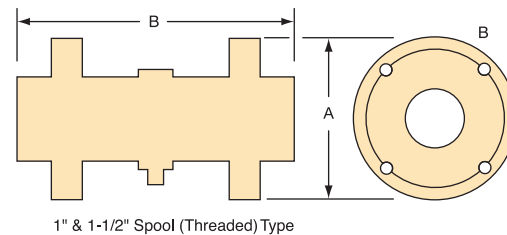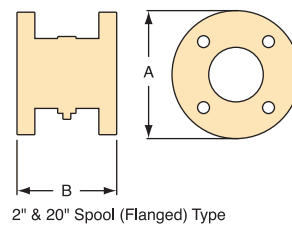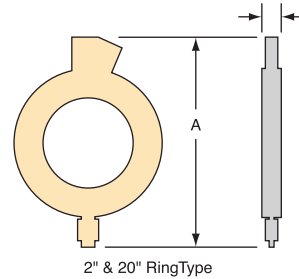
Series 5500-PIR

Features:

- No clogging, plugging or fouling of gauges, pressure switches or transmitters
- Excellent for slurries, abrasive fluids and fluids with high percent solids
- Inside diameter matches adjacent pipe for self cleaning or pigging of system
- Gauges can be removed/replaced without interrupting the process or vacuum filled fluid through the use of an integral isolation valve
- Gauges are liquid filled, 2-1/2" diameter, with stainless steel housing and brass bourdon tube

Instrument Connection

Housing

Access Chamber

Flange Assembly

Needle Valve (Instrumentation Removal Devise)

Captive Liquid

Flexible Cylinder

Series 5500-PIR
Pressure Isolation Ring

2" & 20" RingType

2" & 20" Spool (Flanged) Type

1" & 1-1/2" Spool (Threaded) Type
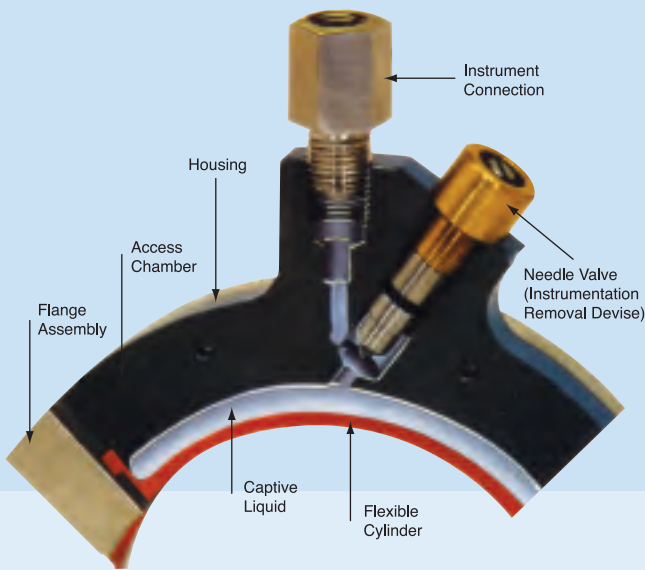
The Series 5500-PIR Pressure Isolation Ring is ideally suited for reliable and accurate pressure reading of abrasive, corrosive, viscous or scaling fluids. The 360º sensing sleeve isolates the gauge or pressure transmitter from the process fluid to prevent clogging. The 5500-PIR isolates and protects gauges, pressure switches, transmitters and recorders. It can be used for monitoring tank levels, monitoring pressures on long pipe lines to detect breakage, monitoring pressure drops across a filter or pump, measuring the output pressure of a pump, and sending a signal to stop the pump or open a bypass valve.

SERIES 5500-PIR VALVE SIZE	DIMENSIONS													
	1	1-1/2	2	3	4	5	6	8	10	12	14	16	18	20
A	4-1/2	5	6-15/16	8-3/16	9	10-1/4	11-3/16	13-3/8	15-9/16	17-9/16	19-15/16	21-15/16	24-3/16	26-1/16
B	5-3/8	5-3/8	2	2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-3/4	1-3/4	2	2	2
Weight (Lbs.)	8	10	3	6	8	10	12	16	20	25	50	60	70	80

Notes: 1) When using a pressure switch, please specify pressure range, desired set point, and increasing or decreasing for switch contact. 2) Use flange gaskets suitable for the system temperature and fluid media. 3) Gauge and instruments can be removed from unit only while at zero line pressure to prevent permanent displacement of sensing fluid. 4) 1" and 1-1/2" sizes are full 150 lb. flanged spool type; 300 lb. flanged or NPT threaded units are available. Spool type units do not have an integral isolation valve. 5) Gauge and pressure switch shown above are optional. 6) For full product specifications and installation instructions, see SPEC5500-1 and ININ5500-1, respectively.