

SPS - Series 40 Pressure Sensor



- Protects and isolates instrumentation
- Full 360° pressure reading
- Self-cleaning, flexing action
- Won't clog like traditional diaphragm seals
- Accommodates both positive and negative pressures

Materials of Construction

- **Body:** Carbon Steel, 316 Stainless Steel.
- **Sleeves:** Pure Gum Rubber (PGR), Ethylene Propylene Diene Terpolymer (EPDM)*, Acrylonitrile-Butadiene (NBR), Fluoroelastomer (FKM)*, Chloroprene (CR)*, Chlorosulfonated Polyethylene (CSM), Chloro-Isobutylene-Isoprene (CIIR).
* White food grade options available.
- **Drilled Flanges:** ASME 150 in Carbon Steel, 316 Stainless Steel or Polytetrafluoroethylene (PTFE)-Coated Carbon Steel.
- **Fill Fluids:** Silicone Oil (400° F), Ethylene Glycol and Water (200° F), Vegetable Oil (230° F).

SERIES 40

SIZE D	DIMENSIONS in/mm		
	OUTSIDE DIAMETER A	LENGTH F TO F	WEIGHT lbs/kg
1" 25mm	4.50 114	1.88 48	6 3
1.5" 40mm	5.00 127	1.88 48	8 4
2" 50mm	6.00 152	1.88 48	12 5
2.5" 65mm	7.00 178	1.88 48	16 7
3" 80mm	7.50 191	1.88 48	18 8
4" 100mm	9.00 229	2.13 54	27 12
5" 125mm	10.00 254	2.25 57	32 15
6" 150mm	11.00 279	2.25 57	37 17
8" 200mm	13.50 343	2.50 64	58 26

Product pressure ratings are consistent with the pressure ratings of the 150# flanges to which they are mated. Contact Red Valve for use with other flange classes.

Contact Red Valve for sizes 10" through 36".

Red Valve's Series 40 Pressure Sensor is the industry standard for protecting instrumentation and assuring accurate, dependable pressure measurement of slurry and corrosive fluids.

The 360° flexible rubber sleeve senses the line pressure. The captive fluid is displaced through the pressure sensor body to the instrument's Bourdon Tube. All instruments are isolated and protected from the process, ensuring positive and accurate readings.

The full-faced, thru-bolted Series 40 installs directly in-line. Costly installation and maintenance of pipe stands and saddle welds, which are required when installing antiquated diaphragm seals, are eliminated. The thru-bolted Series 40 can be mounted in any flow direction, submerged in a tank, or mounted with a blind flange as a dead end to monitor tank levels.

The Red Valve standard gauge is bottom mounted, with a 2.5" diameter steel case. Accuracy of this gauge is 1% of the gauge reading. Standard gauge is 0-100 psi gauge, unless otherwise specified. Optional gauge ranges are available.

All Red Valve Pressure Sensors and Gauges are tested and calibrated through the mid-range to assure the highest level of accuracy. Pressure gauges, transmitters, transducers, recorders, differential pressure or vacuum switches are factory filled and mounted to the Series 40.

