SPS - Series 48 Pressure Sensor

- Wafer design reduces costs
- Protects and isolates instrumentation
- Fits ASME 150 flanges
- Lightweight design
- Accomodates both positive and negative pressures

Red Valve's Series 48 Pressure Sensor protects and isolates instrumentation, eliminating plugging and fouling that can occur in slurry and hard-to-gauge liquid applications. The economical Series 48 is designed to fit inside the bolt pattern of the pipe flanges, allowing for ease of installation and reducing the size of the unit.

Reliable, accurate instrument readings are often difficult or even impossible to obtain in pipelines carrying slurry, solids or chemical process. Standard diaphragm seals are vulnerable to plugging by debris or deposits and only give a pressure reading from one small area. With the Series 48 Pressure Sensor, these problems are eliminated.

The principle of operation is that line pressure is sensed through a flexible rubber sleeve which is a full 360° circumference of the pipe I.D. The captive fluid is displaced through the Series 48 Pressure Sensor body to the instrument's Bourdon Tube. All instrumentation is protected from the process which ensures accurate, repeatable readings.

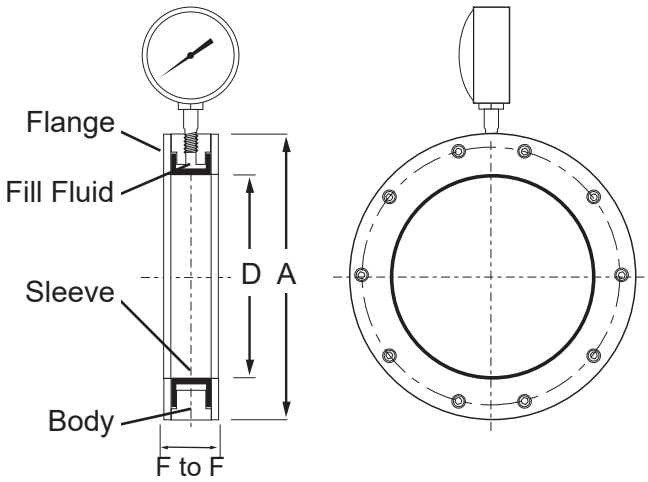
Materials of Construction

- **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.
- **Flanges:** Carbon Steel, 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 48

	DIMENSIONS in/mm		
SIZE D	OUTSIDE DIAMETER A	LENGTH F TO F	WEIGHT lbs/kg
2" 50mm	4.00 102mm	1.88 48mm	3 1
2.5" 65mm	4.5 114mm	1.88 48mm	5 2
3" 80mm	5.25 133mm	1.88 48mm	6 3
4" 100mm	6.75 171mm	2.13 54mm	9 4
6" 150mm	8.63 219mm	2.25 57mm	12 5
8" 200mm	10.88 276mm	642.50 mm	16 7
10" 250mm	13.25 337mm	2.75 70mm	22 10
12" 300mm	16.00 406mm	3.00 76mm	25 11
14" 350mm	17.63 448mm	3.00 76mm	50 23
16" 400mm	20.00 508mm	3.00 76mm	60 27
18" 450mm	21.50 546mm	3.00 76mm	70 32
20" 500mm	23.75 603mm	3.00 76mm	80 36
24" 600mm	28.13 715mm	3.0 76mm	115 52

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.



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