

Series 48R

Rubber Coated Wafer Sensor



- ▶ Protects and isolates instrumentation from process line
- ▶ Wafer design reduces costs
- ▶ Designed for Class 150 or 300 systems
- ▶ Light weight design



Materials of Construction

- ▶ Carbon Steel Body encapsulated entirely with elastomer
- ▶ Carbon Steel Flanges elastomer encapsulated. Optional 304 or 316 stainless steel
- ▶ Sleeves Available in Pure Gum Rubber, Neoprene, Chlorobutyl, Buna-N, Hypalon, Viton, and EPDM
- ▶ Fill Fluid Ethylene Glycol & Water 200° F, Vegetable Oil 230° F, Silicone Oil 400° F

Red Valve's Series 48R Pressure Sensor protects and isolates instrumentation, eliminating plugging and fouling that can occur in slurry and hard-to-gauge liquid applications. The economical Series 48R is designed to fit inside the bolt pattern of the pipe flanges, allowing for ease of installation and reducing the size of the unit. Series 48R sensors are designed to fit Class 150 and 300 flange drilling, DIN, or BS NP10 piping systems.

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 48R 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 48R Pressure Sensor body to the instrument's Bourdon tube. All instrumentation is protected from the process, which assures accurate, repeatable pressure readings.

Encapsulated entirely by your choice of elastomer material, all metal parts of this sensor and the instrumentation are completely isolated from the process. Therefore less expensive metals like Carbon Steel are used as the standard base material for the Sensor flanges.

DIMENSIONS SERIES 48R

Size D	Outside Diameter A	Length F to F	100°F Working Pressure (psi)*	Weight (lbs)
2"	4"	1 ⁷ / ₈ "	720	3
2 ¹ / ₂ "	4 ³ / ₄ "	1 ⁷ / ₈ "	720	5
3"	5 ¹ / ₄ "	1 ⁷ / ₈ "	720	6
4"	6 ³ / ₄ "	2 ¹ / ₈ "	720	9
6"	8 ⁵ / ₈ "	2 ¹ / ₄ "	720	12
8"	10 ⁷ / ₈ "	2 ¹ / ₂ "	720	16
10"	13 ¹ / ₄ "	2 ³ / ₄ "	720	22
12"	16"	3"	720	25
14"	17 ⁵ / ₈ "	3"	720	50
16"	20"	3"	720	60
18"	21 ¹ / ₂ "	3"	720	70
20"	23 ³ / ₄ "	3"	720	80
24"	28 ¹ / ₈ "	3"	720	115
30"	34 ⁵ / ₈ "	3"	720	150
36"	41 ¹ / ₈ "	4"	720	248
42"	47 ¹ / ₈ "	4"	720	319
48"	54 ³ / ₈ "	4"	720	392

PVC Unit has a working pressure of 200 psi.

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