

SERIES 44 FOOD GRADE PRESSURE SENSOR

Specification #RV-44

PART 1 GENERAL1.01 SUBMITTALS

- A. Submit product literature that includes information on the performance and operation of the sensor, materials of construction, dimensions and weights, elastomer characteristics, and pressure rating.
- B. Upon request, provide shop drawings that clearly identify the sensor dimensions including all supplied accessories.

1.02 QUALITY ASSURANCE

- A. Supplier shall have at least ten (10) years experience in the manufacture of pressure sensor rings utilizing an elastomer sensing element, and shall provide references and a list of installations upon request.

PART 2 PRODUCTS

2.01 PRESSURE SENSORS

- A. Sensor body shall be constructed of Type 316 Stainless Steel. Pressure Sensors are to be furnished with Tri-Clover Ferrules on each end for quick disconnects. There shall be no dead ends or crevices and flow passage shall make the sensor self-cleaning. The pressure-sensing ring shall measure pressure for 360° around the full inside circumference of the pipeline. The sensing ring shall also be clamped into the body of the sensor.
- B. The pressure-sensing ring shall be constructed of an FDA approved food grade elastomer. Pressure shall be transmitted to the gauge by a locked and sealed fluid such as mineral oil. The sensor shall have an auxiliary tapped and plugged port to allow connection of other equipment. Sensor shall be manufactured in the USA.

2.02 FUNCTION

- A. Line pressure pushes against an elastomer ring inside the sensor. The deflection of the ring displaces a fluid fill inside the body of the sensor, forcing the fluid into a pressure-measuring device.

2.03 MANUFACTURER

- A. All Sensors shall be of the Series 44 as manufactured by the Red Valve Co., Inc. of Carnegie, PA 15106 or approved equal.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Valve shall be installed in accordance with manufacturer's written Installation and Operation Manual and approved submittals.

3.02 MANUFACTURER'S CUSTOMER SERVICE

- A. Manufacturer's authorized representative shall be available for customer service during installation and start-up, and to train personnel in the operation, maintenance and troubleshooting of the sensor.
- B. Manufacturer shall also make customer service available directly from the factory in addition to authorized representatives for assistance during installation and start-up, and to train personnel in the operation, maintenance and troubleshooting of the sensor.