

Series 4700 AIR OPERATED PINCH VALVES
Specification #RV-4700

PART 1 GENERAL

1.01 SUBMITTALS

- A. Submit product literature that includes information on the performance and operation of the valve, materials of construction, dimensions and weights, sleeve trim design, elastomer characteristics, flow data, and pressure ratings.
- B. Upon request, provide shop drawings that clearly identify the valve dimensions including all supplied accessories.

1.02 QUALITY ASSURANCE

- A. Supplier shall have at least ten (10) years experience in the manufacture of pinch style valves, and shall provide references and a list of installations upon request.

PART 2 PRODUCTS

2.01 AIR OPERATED PINCH VALVES

- A. Valves are to be of the pneumatically operated jacket pinch type with flanged joint ends. Port area shall be 100% of the mating pipe port area through the entire valve length.
- B. Valve body shall be a single piece of lightweight spun aluminum, with an integral aluminum stem that is drilled and tapped to NPT standards for airline connection. The flanges shall have an ANSI 125/150# standard hole pattern, and shall be provided with galvanized steel back-up rings. Through bolts will be used for installation.
- C. The valve body shall be completely protected from the process fluid by a flexible elastomer pinch tube. The elastomer pinch sleeve shall be one piece construction with flanges drilled to be retained by the flange bolts. The pinch tube shall also be Nylon reinforced with an exterior wrapping of 1/8" thick Neoprene. Valve shall be manufactured in the USA.

2.02 FUNCTION

- A. To close the valve, air or hydraulic pressure is applied to the outside of the sleeve via the NPT connection tapped into the valve body. Required pressure is calculated as follows: $\text{Line Pressure} + 25 \text{ psi} = \text{Total Closing Pressure Required}$. With no pressure applied, valve will return to full open position.

2.03 MANUFACTURER

- A. All valves shall be of the Series 4700 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 valve.
- 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 valve.