

# TYPE A DOUBLE WALL AIR OPERATED PINCH VALVES

## Specification #RV-DW

### 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 integral flanged joint ends. Port area shall be 100% of the mating pipe port area through the entire valve length. Flanges shall be of one size larger than pipeline size to allow extra thickness of rubber. Mating pipeline flanges shall be standard reducing flange with I.D. to exactly match valve I.D.
- B. Valve body shall be drilled and tapped for a pressure connection on top and on bottom of the housing. Valve shall be two piece split body constructions. The two halves shall be sealed by diamond shaped cross section rubber gasket permanently locked by a groove in the valve body. Company name and location shall be cast onto the valve body. Valve shall be manufactured in the USA.
- C. All internal valve metal parts are to be completely protected from the process fluid by a flexible elastomer pinch tube. The elastomer pinch sleeve shall be one piece construction with integral 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.

#### 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:  $\text{Line Pressure} + 35 \text{ psi} = \text{Total Closing Pressure Required}$ . With no pressure applied, valve will return to full open position.

#### 2.03 MANUFACTURER

- A. All valves shall be of the Type "DW" 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.