

# **SERIES 52H MANUALLY OPERATED CONTROL PINCH VALVES FOR BURIED SERVICE**

## **Specification #RV-52H**

### **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, elastomer characteristics, flow data, and pressure rating.
- 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 MANUALLY OPERATED PINCH VALVES**

- A. Valve shall have a ductile iron body, mechanical pinch type with flange joint ends. The valve length shall be as given in ISA S75.08 or no longer than twice the nominal valve port diameter. The flanges shall be drilled and tapped to mate with ANSI B16.1, Class 125/ANSI B16.5, Class 150 flanges. Body shall be epoxy coated for additional corrosion protection.
- B. The sleeve trim shall be one piece construction with integral flanges drilled to be retained by the flange bolts. The sleeve trim shall be reinforced with calendared nylon or calendared polyester fabric to match service conditions. The sleeve trim shall be connected to the pinch bar by tabs imbedded in the sleeve trim-reinforcing ply. All internal valve metal parts are to be completely isolated from the process fluid by the sleeve trim.
- C. The fixed lower pinch bar shall be set to pre-pinch the sleeve so that there is no reduction to the total flow when the valve is in the open position.
- D. The solid steel mechanism shall be single acting, closing the sleeve trim from the top only. The mechanism shall be supported in the valve body. There shall be no cast parts in the operating mechanism. The pinch mechanism shall be adjustable for stroke without removing the valve from the line. ACME threads shall be used on the valve mechanism.
- E. A torque tube shall be fitted to the body of the valve via a mounting plate. The tube shall extend from the valve to above grade level, providing protection for the operating stem and sealing the opening in the top body half. Valve shall be operated by turning a non-rising stem, contained within the torque tube, and connected to the pinch mechanism. Bevel gear operators shall be provided on all valves over 8" size, and on smaller sizes as specified on the purchase order. Torque tube shall be epoxy coated for additional corrosion protection. Valves shall be manufactured in the USA.
- F. The handwheel shall be constructed of welded, tubular steel and be connected to the bevel gear operator by means of a single retaining bolt. The handwheel shall be fitted with a lubrication fitting to allow lubrication of the stem.

#### **2.02 FUNCTION**

- A. Rotating the handle clockwise lowers a pinch bar above the sleeve. Turning the handle counter-clockwise separates the two pinch bars to open the valve.

#### **2.03 MANUFACTURER**

- A. All valves shall be of the Series 52-H 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 manufacturers 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.