

# **SERIES TF-1 SLIP-ON FLAT BOTTOM CHECK VALVES**

## **Specification #RV-TF-1**

### **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, headloss data, and pressure ratings.
- B. Upon request, provide shop drawings that clearly identify the valve dimensions.

#### **1.02 QUALITY ASSURANCE**

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

### **PART 2 PRODUCTS**

#### **2.01 "DUCKBILL" ELASTOMERIC CHECK VALVES**

- A. Check Valves are to be all rubber of the flow operated check type with a slip-on connection. The Check Valve is designed to slip over the specified pipe outside diameter and attached by means of vendor furnished stainless steel clamps. The port area shall contour down to a duckbill, which shall allow passage of flow in one direction while preventing reverse flow. The valve shall be one piece rubber construction with nylon reinforcement. The duckbill shall be offset so that the bottom line of the valve is flat, keeping the invert of the pipe parallel with the invert of the valve. The top of the valve shall rise to form the duckbill shape. In sizes 20" and larger, the bill portion shall be thinner and more flexible than the valve body, and formed into a curve of 180°.
- B. Manufacturer must have available flow test data from an accredited hydraulics laboratory to confirm pressure drop data. Company name, plant location, valve size and serial number shall be bonded to the check valve. Valves shall be manufactured in the USA.

#### **2.02 FUNCTION**

- A. When line pressure inside the valve exceeds the backpressure outside the valve by a certain amount, the line pressure forces the bills of the valve open, allowing flow to pass. When backpressure exceeds the line pressure by at the same amount, the bills of the valve are forced closed. The flat bottom allows the valve to be installed where minimal bottom clearance exists.

#### **2.03 MANUFACTURER**

- A. All valves shall be of the Series TF-1 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.