

# 11269.8 SERIES WF-3 WATERFLEX CHECK VALVES

## 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, headloss and flow 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 (15) years experience in the manufacture of "duckbill" style elastomeric check valves.

## PART 2 PRODUCTS

### 2.01 WATERFLEX WF-3 CHECK VALVES

- A. The perforated disc shall be fabricated of stainless steel plate with welded support gussets. The disc shall be flanged and drilled to mate with ANSI B16.1, Class 125/ ANSI B16.5 Class 150 flanges. The disc shall have three (3) tapped holes used for fastening the membrane and support rod to the disc with stainless steel bolts, nuts, and lock washers. The top of the disc shall be tapped and supplied with lifting eyebolt for installation.
- B. The Waterflex membrane shall be circular, one piece rubber construction with fabric reinforcement. The diameter of the membrane shall allow adequate clearance between the membrane O.D. and the pipe I.D. The membrane shall be vulcanized with a specified convex radius to produce a compression set to allow the membrane to seal against the perforated disc at low reverse differential pressure.
- C. The support rod shall be stainless steel and drilled with three (3) longitudinal holes to allow fastening of rod to membrane and perforated disc.
- D. Manufacturer must have available flow test data from an accredited hydraulics laboratory to confirm pressure drop data. Company name and location shall be vulcanized on the membrane. Valves are to be manufactured in the USA.

### 2.02 FUNCTION

- A. When line pressure inside the valve exceeds the backpressure outside the valve, the line pressure forces the membrane to open, allowing flow to pass thru the perforations in the disc. When backpressure exceeds the line pressure, the membrane seats on the perforated disc preventing backflow.

### 2.03 MANUFACTURER

- A. All valves shall be of the Series WF-3 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.