

DOUBLE DISC CHECK VALVES

PART 1 – GENERAL

1.01 SECTION COVERS

- A. The design, manufacture, and testing of 2” through 24” double door check valves for the purpose of preventing reverse flow and minimizing valve slam in water applications.

1.02 REFERENCES & STANDARDS

- A. AWWA C518 “Double Disc Check Valves for Waterworks Service”
- B. ASTM A536 "Standard Specification for Ductile Iron Castings"
- C. ANSI B16.1 "Pipe Flanges and Flanged Fittings"

1.03 QUALITY ASSURANCE

- A. Valves shall be warranted by the manufacturer for defects in materials and workmanship for a period of one year (12 months) from date of shipment.
- B. Each valve shall be assembled, adjusted and tested as a unit by the valve manufacturer.

PART 2 – PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. McWane Plant & Industrial (MPI)
- B. Kennedy Valve
- C. Clow Valve
- D. M&H Valve Company

2.02 DOUBLE DISC CHECK VALVES

- A. Valve body shall be wafer style of ductile iron construction per ASTM A536 and incorporate a vulcanized resilient EPDM seal.
- B. Discs shall be ASTM A351 – CF8M stainless steel and pivot about a T316 stainless steel hinge pin.
- C. Disc closure shall be assisted by a T316 stainless steel torsion spring.
- D. A T316 stainless steel stop pin shall be provided to stabilize disc movement in the full open position.
- E. Hinge and stops pins shall be stabilized by the inclusion of EPDM stabilization spheres to prevent wear from vibration during operation.
- F. Valves 10” and larger shall be provided with an eyebolt for lifting.
- G. Pressure rating shall be 250 psi. Valves shall be hydrostatically shell tested to 2 times the rated pressure per AWWA C518.
- H. The interior and exterior of the valve shall be coated with an NSF-61 approved fusion bonded epoxy coating.

PART 3 – INSTALLATION

- A. A minimum of 5 pipe diameters of straight pipe are recommended upstream of the check to ensure proper operation.
- B. When installed in a horizontal pipeline, it is recommended that the valve be installed with a vertically orientated hinge pin.