

Engineering Specifications

Butterfly Valves

Model 2873.81

PART 1: GENERAL

1.1 SUMMARY

- A. General duty semi-lug butterfly valve for hot and cold water distribution systems, general utility and chilled water systems.

1.2 REFERENCES

- A. ASME B16.1 Pipe Flanges and Flanged Fittings
- B. ASME B16.5 Pipe Flanges and Flanged Fittings
- C. MSS SP67 Butterfly Valves
- D. AWWA C504-6 Rubber Sealed Butterfly Valves
- E. IAPMO Uniform Plumbing Code
- F. IAPMO Uniform Mechanical Code
- G. ICC International Plumbing Code
- H. ICC International Mechanical Code

1.3 QUALITY ASSURANCE

- A. The installer shall be a qualified installer, licensed within the jurisdiction and familiar with the installation of butterfly valves.
- B. The installation of butterfly valves for hot and cold water distribution systems shall conform to the requirements of the ICC International Plumbing Code or IAPMO Uniform Plumbing Code.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Prepare valves for shipping as follows:
 - 1. Set butterfly valve in closed position
 - 2. Remove valve handle and ship non assembled
 - 3. Protect valve and handle from corrosion
- B. Use the following precautions during storage:
 - 1. Store valves indoors and maintain at higher than ambient dew-point temperature. If outdoor storage is necessary, store valves off the ground in watertight enclosure.

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1.5 WARRANTY

- A. The manufacturer shall warrant the valve to be free from defects in material or workmanship. The manufacturer shall warrant the functionality of valve for approved applications, installed according to manufacturer installation instructions.
- B. The manufacturer of the valve shall not be responsible for the improper use, handling or installation of the product.

PART 2: PRODUCTS

2.1 MANUFACTURES

- A. Butterfly Valve: Viega, 301 N. Main, 9th Floor, Wichita, KS
Telephone: (316) 425-7400, Website: www.viega.com.

2.2 MATERIAL

- A. Butterfly Valves: Butterfly valves 2-1/2" thru 4" shall conform to ASME B16.5, ASME B16.1, MSS SP67 and AWWA C504-6
- B. Butterfly valve body shall be semi lug, polyurethane coated, spheroidal cast iron with ISO 5211 flange and EPDM liner.
- C. Butterfly stem and disc shall be 316 stainless steel. Stem shall be anti-blowout.
- D. Butterfly handle shall be spring locked 10 position.

PART 3: EXECUTION

3.1 EXAMINATION

- A. Examine butterfly valve for compliance with requirements for installation tolerances, imperfections and other conditions affecting performance. Proceed with installation only after unsatisfactory conditions have been corrected.
- B. The contractor shall examine valve interior for cleanliness, freedom from foreign matter and corrosion. Remove special packing materials, such as blocks, used to prevent movement during shipping and handling
- C. Operate valve in positions from fully opened to fully closed. Examine guides and seats made accessible by such operations.

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3.2 PREPARATION

- A. Butterfly valve should be inspected to assure seal is clean and in place and that flanged surfaces are clean and free from debris.
- B. Butterfly valve handle should be installed on the valve stem and checked for proper operation.

3.3 VALVE INSTALLATION

- A. Install butterfly valves at each piece of equipment arranged to allow service, maintenance and equipment removal without system shutdown.
- B. Locate valves for easy access
- C. Install valves in position to allow full stem movement
- D. Butterfly valves that are remotely located shall have a metal tag indicating the section of pipe that it isolates

3.4 BUTTERFLY VALVE APPLICATIONS

- A. Domestic Water Systems: 2-1/2" thru 4", 200 psi maximum
- B. Chilled Water Systems: 2-1/2" thru 4", 200 psi maximum
- C. Condenser Water Systems: 2-1/2" thru 4", 200 psi maximum
- D. Heating Water Systems: 2-1/2" thru 4", 200 psi maximum