



Concentric Butterfly Valves Series 816 Sample Specification

1. General.

- A. This specification shall apply to Class 150 and Class 250 butterfly valves
- B. Valves shall be designed, manufactured, and test in accordance with AWWA C504.
- C. Valves shall be certified to the requirements of ANSI/NSF 61.
- D. Valves shall be certified to comply with the low lead requirements of the Safe Drinking Water Act, ANSI/NSF 372.
- E. Manufacturer shall be ISO 9001 and ISO 14001 Certified.

2. General Design.

- A. The butterfly valve shall be of concentric design.
- B. The valve shall seal at the rated pressure in both directions.
- C. The valve body shall be ductile iron, ASTM A536 65-45-12.
- D. The valve disc shall be ductile iron, ASTM A536 65-45-12. The disc shall be designed to minimize head loss.
- E. The valve stems shall be of the stub type design. The materials shall be 17-4PH (ASTM A564, Type 630) stainless steel for Class 150 and Class 250 valves.
- F. All stem seals shall be O-rings. All O-rings shall be replaceable without requiring that the stem be removed from the valve.
- G. The rubber seat shall be EPDM. The rubber seat shall be vulcanized to the valve body.
- H. The resilient seat mating surface shall be a Ni-Cu7 alloy.
- I. The bearings shall be sleeve type, PTFE impregnated copper with steel backing.
- J. Thrust bearings shall be provided on butterfly valves 14-inch and larger and shall be adjustable.

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- K. The valve disc shall be rigidly connected to the driving stem by a hexagonal shape and screw.
- L. All bolting and hardware shall be stainless steel.
- M. There shall be no exposed, uncoated iron in the interior or exterior of the valve.

3. Actuator

- A. The valve actuator shall conform to AWWA C504. It shall be designed to hold the valve in any intermediate position without creep or fluttering.
- B. The actuator shall be able to withstand a 450 ft-lb input torque.

4. Protective Coatings

- A. All exposed ferrous surfaces shall be coated with an epoxy in accordance with AWWA C550.

5. End Connections.

- A. End Connections shall be either Mechanical Joint or Flanged.
- B. Mechanical and Push-On joints shall comply with the requirements of AWWA C111.
- C. Flanged ends shall comply with ASME B16.42, class 150.

7. Warranty

- A. All butterfly valves shall be covered by a Manufacturer's 1 Year Limited Warranty on manufacturers defects and labor costs for replacement.