SUGGESTED SPECIFICATIONS

BUTTERFLY VALVES, RUBBER-SEATED 24” AND LARGER CAST CONSTRUCTION

PRATT®

General
All butterfly valves shall be of the tight closing, rubber seated type and fully comply with the latest revision of AWWA Standard C504/C516 and NSF61, where applicable. Valves shall be bubble-tight at rated pressures in either direction, and shall be satisfactory for applications involving throttling service and for applications requiring valve actuation after long periods of inactivity. Valve discs shall rotate 90˚ from the full open position to the tight shut position. Regardless of valve size, angular mis-position of disc can be up to 1˚ off center without leakage. The manufacturer shall have manufactured tight closing, rubber seated butterfly valves for a period of at least ten years. All valves from 24" through 144" shall be the Triton XR-70 as manufactured by Henry Pratt Company.

Valve Body
All valve bodies shall be cast iron ASTM A126, Class B, narrow body design. Flange drilling shall be in accordance with ANSI B16.1 for cast iron flanges. Body thickness shall be in strict accordance with AWWA C504 where applicable.

Valve Disc
All valve discs shall be constructed of ductile iron ASTM A536 with a stainless steel seating edge. The disc shall not have any hollow chambers that can entrap water. All surfaces shall be visually inspected and measurable to assure all structural members are at full disc strength. Disc and shaft connection shall be made with stainless steel pins.

Valve Shaft
All shafts shall be turned, ground, polished and constructed of ASTM A-276 Type 304 or Type 316 stainless steel. Shafts shall be two-piece, stub type and keyed for actuator connection. Shaft diameters shall meet minimum requirements established by the latest revision of AWWA Standard C504 for their class, where applicable.

Valve Seat
All seats shall be constructed of synthetic rubber compound such as Buna N or EPDM and suitable for bidirectional shutoff at rated pressure. Seats shall be retained in the valve body by mechanical means without retaining rings, segments, screws or hardware of any kind in the flow stream. Seats shall be a full 360˚ without interruption and have a plurality of grooves mating with a spherical disc edge seating surface. Valve seats shall be field adjustable around full 360˚ circumference and replaceable without dismantling actuator, disc or shaft and without removing valve from the line.

Valve Bearings
All butterfly valves shall be fitted with sleeve-type bearings. Bearings shall be corrosion resistant and self-lubricating. Bearing load shall not exceed 1⁄5 of the compressible strength of the bearing or shaft material.

Valve Actuator
Valve actuators shall conform to AWWA Standard C504 and shall be designed to hold the valve in any intermediate position between full open and fully closed without creeping or fluttering.

Painting
All surfaces of the valve shall be clean, dry and free from grease before applying paint or coating. The valve interior and exterior surfaces, except for the seating surfaces, shall be provided with the manufacturer’s standard coating unless otherwise specified by contract.

Testing
Hydrostatic and leakage tests shall be conducted in strict accordance with AWWA Standard C504.

Proof of Design
The manufacturer furnishing the valves under the specification shall be prepared to show proof that the valves provided meet the design requirements of AWWA Standard C504.

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