

GA Industries, LLC
SERIES 800 Rubber Seated Butterfly Valve
Flanged and Mechanical Joint End
SUGGESTED SPECIFICATION

DESIGN

- A. Butterfly valves shall be in complete accordance with AWWA C504 (latest revision) for Rubber Seated Butterfly Valves. Valves shall be bubble-tight at rated pressure and be capable of operation after long periods of inactivity.
- B. Valves shall be Pressure Class 150B unless otherwise specified. Flanged valves shall meet the AWWA C504 "short-body" face-to-face dimensions and be faced and drilled per ANSI B16.1. Mechanical joint end valves shall conform to ANSI/AWWA C111/A21.11.
- C. Valve body shall conform to the wall thickness requirements of AWWA C504 and have an integral ISO 5211/MSS SP-101 pad for direct mounting of the actuator.
- D. The nominal size, pressure rating, date of manufacture and manufacturer's name shall be cast onto the body or be on a permanently attached nameplate.

CONSTRUCTION

- A. Sizes 3" to 24" shall be constructed as follows:
 - 1. Valve body shall be ASTM A536 Grade 65-45-12 ductile iron with a permanent rubber seat molded and vulcanized to the body. Flanged valves shall have a completely rubber lined waterway.
 - 2. Valve discs shall be epoxy coated ductile iron and of the concentric design with a 316 stainless steel seat edge.
 - 3. Valve shaft shall be one-piece Type 304 stainless steel shaft extending through the disc. The disc shall be fastened to the shaft with stainless steel pins forming a leak tight joint.
 - 4. The seat shall be made from Buna-N rubber and shall seal against full rated differential pressure. Rubber seats retained by epoxy or adhesive are not acceptable.
 - 5. Valves shall have corrosion-resistant, self-lubricating upper and lower shaft bearings suitably designed for horizontal or vertical shaft orientation with replaceable, self-adjusting Buna-N shaft packing.
- B. Sizes 30" and larger shall be constructed as follows:
 - 1. Valve body shall be ASTM A126 Class B cast iron or ASTM A536 Grade 65-45-12 ductile iron body with a field adjustable and replaceable rubber seat.
 - 2. Valve discs shall offset type and made from ductile iron with a 316 stainless steel seat edge providing full 360 degree uninterrupted seating.
 - 3. Valve shall have upper and lower Type 304 stainless steel shafts. The disc shall be fastened to the shafts with stainless steel pins forming a leak tight joint.
 - 4. The seat shall be Buna-N rubber seat mechanically retained, field adjustable and field replaceable without special tools or equipment. Rubber seats retained by epoxy or not held in place by stainless steel retainers, studs and lock nuts are not acceptable.
 - 5. Valves shall have corrosion-resistant, self-lubricating upper and lower shaft bearings suitably designed for horizontal or vertical shaft orientation with a factory-set lower thrust bearing and a combination impregnated Teflon® V-ring and compression packing with pull-down gland.

COATINGS

- A. Valves shall have internal ferrous surfaces coated with 6-8 mil of NSF-61 certified epoxy per AWWA C550.
- B. External surfaces except flange faces shall be factory primed with 6-8 mil of epoxy.

ACTUATORS

- A. Manually operated valves for above ground service shall be actuated by a worm gear or traveling nut actuator with a handwheel and visual position indicator.
- B. Manually operated valves for buried service shall be actuated by a sealed and grease-packed worm gear or traveling nut actuator with a 2" square nut.
- C. Manual actuators shall conform to AWWA C504 and direct-mount on an integral, pre-drilled ISO 5211/MSS SP-101 pad on the valve body.
- D. When shown on the plans or listed in the valve schedule, the valve shall be operated by an electric motor, pneumatic or hydraulic cylinder actuator.

MANUFACTURER

- A. Rubber-seated butterfly valves shall be Series 800 as manufactured by GA Industries, LLC, Cranberry Township, PA USA

GA Industries, LLC

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SAMPLE SPECIFICATION
SERIES 800
FLANGED AND MJ BUTTERFLY VALVES

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