The Flomatic Model 45 butterfly valves shall be manufactured in accordance with the latest version of AWWA C504. The butterfly valves shall be a tight closing, rubber seated design providing bi-directional bubble tightness. The valve shall be suitable for throttling service and/or operation after long periods of inactivity.

**GENERAL**

The valve bodies shall be constructed of ductile iron ASTM A536, for valve class 150B and 250B pressure ratings. Cast iron bodies are not acceptable. Flanges shall be in conformance with ANSI Standard B16.1, Class 125 drilling.

**BODY**

Suggested Specification

The shaft bearings shall be sleeve type constructed of a self lubricating, corrosion-resistant material. The bearings shall be designed to support horizontal and/or vertical shaft loading.

**BEARINGS**

**VALVE DISC**

The valve disc shall be constructed of cast ductile iron ASTM A536 with 316 stainless steel edges, with the exception of 3” and 4” sizes, which shall be constructed of cast 316 stainless steel per ASTM A351. The valve disc shall be a center positioned, concentric design without ribs or obstructions for improved flow and low head loss.

The valve shaft shall be a one piece through disc design constructed of stainless steel ASTM A276 type 316. The shaft shall be fastened to the disc utilizing taper pins providing leak-proof connection between the shaft and disc.

**SHAFT**

The valve seat and interior waterway shall be bonded and vulcanized with rubber. The seat shall cover the entire interior waterway and flange surface.

**SEAT**

**PACKING**

The packing shall be a rubber, V-type design that is self adjusting and wear compensating. The valve packing arrangement shall allow for removal of the actuator without failure of the packing seal.

**PAINT**

The butterfly valves shall be coated with a fusion bonded NSF 61 epoxy powder.

**TESTING**

The butterfly valves shall be hydrostatic and leak tested in accordance with AWWA C504.
AZURE® AWWA Flanged Butterfly Valves

Model 45 Flanged Size Range 3” - 24”

**Body**
Ductile iron ASTM A536 for greater strength and higher pressure rating, AWWA Class 150B and 250B short body design.

**Shaft**
Keyed one piece ASTM A276 type 316 stainless steel through shaft design providing minimal deflection. Slotted shaft top indicates position.

**Paint**
Fusion bonded epoxy powder conforming to NSF 61 and AWWA Standard C550.

**Packing**
V-type Packing design. Buna-N packing is self adjusting and wear compensating.

**Disc / Shaft Connection**
Two (2), taper pins providing a positive leak-proof connection between the shaft and disc.

**Standard ISO Mounting Pad**
- Insures actuator compatibility

**Pressure:** Class 150B and AWWA Standard C504

**Seat**
Standard NBR (Buna-N)(other materials available) seat bonded and vulcanized to the body of the valve in compliance with AWWA standard C504. Resilient seat fully encapsulates the body, providing further corrosion protection and longer life.

**Bearings**
Nylatron GSM Shaft Bearing, self lubricating, corrosion-resistant material. Bearings are designed for horizontal and vertical shaft loading.

**Disc Edge**
Stainless Steel Type 316

**Thrust Bearing**
Fusion bonded epoxy conforming to NSF 61 and AWWA Standard C550. (acetal delrin® dupont)

**Valve Disc**
Center positioned for higher flow capability. Cast Ductile Iron ASTM A356 with stainless steel type 316 edges for strength longer life. Rounded machined edge for lower torque. 3” and 4” sizes, all cast ASTM A351 type 316 stainless steel.

**Features:**
- Sizes 3”, 4”, 6”, 8”, 10”, 12”, 14”, 16”, 18”, 20”, 24”
- Flanged body style
- Ductile Iron Body and Disc
- Bonded seat in body
- Symmetrical lens shaped disc
- Nylatron GSM nonmetallic self lubricating bearings
- V-type packing
- Fusion epoxy paint

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Part numbers above with Gear Operator, for bare stem add B after part #

Contact our factory for larger models or other types of butterfly valves.
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Suggested Specification

BODY
The valve bodies shall be constructed of ductile iron ASTM A536, for valve class 150B and 250B pressure ratings. Cast iron bodies are not acceptable. Flanges shall be in conformance with ANSI Standard B16.1, Class 125 drilling.

BEARINGS
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The valve seat and interior waterway shall be bonded and vulcanized with rubber. The seat shall cover the entire interior water way and flange surface.

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The packing shall be a rubber, V-type design that is self adjusting and wear compensating. The valve packing arrangement shall allow for removal of the actuator without failure of the packing seal.

PAINT
The butterfly valves shall be coated with a fusion bonded NSF 61 epoxy powder.

TESTING
The butterfly valves shall be hydrostatic and leak tested in accordance with AWWA C504.