

Recommended Specifications

KEYSTONE



Figure 221 Resilient Seated Butterfly Valve

General Specification

The valve shall be capable of bi-directional, drop-tight service to 250 psig [16 bar] and vacuum.

Flange Mating

Valve body shall be wafer style and meet ANSI Class 125/150 flange standards. Valve neck length shall be sufficient to allow for flange clearance and piping insulation.

Actuation

Valve body shall have an integrally cast top plate for direct flush-mounting of manual or power actuators without use of brackets or adaptors. Valves 8" and larger shall be provided with manual gear or power actuators.

Seat

The seat shall be molded in and ensure drop-tight, bi-directional shutoff. The seat shall fully isolate the valve body, stem and journal areas from the flowing media. A molded in O-ring shall be used on the flange face to eliminate the need for flange gaskets.

Disc

The disc edges and hubs shall be hand polished to reduce frictional torque.

Stem

The stem shall be one piece.

Disc-Stem Connection

The disc and stem shall be connected by a torque plug, which shall provide positive engagement, preventing blow-out of the one piece stem. The torque plug shall maintain a leak-proof and shake-proof connection and allow for quick, easy disassembly. Loose or slip fit connections between disc and stem are not allowed.

Inboard Bearings/Upper Stem Bushing/Stem Packing

The valve shall have upper and lower bronze inboard stem bearings, isolated from the line medium, and a heavy-duty upper stem bushing. Bi-directional stem packing shall be made of NBR and shall ensure a dry stem design.

Materials of Construction

- Body:** Cast Iron ASTM 126 Class B
- Seat:** EPDM
NBR
- Disc:** Aluminum-Bronze
Stainless Steel
- Stem:** 416 Stainless Steel
- Upper Stem Bushing:** Acetal
- Inboard Stem Bearings:** Bronze
- Stem Packing:** NBR
- Torque Plug Disc-Stem Connection:** 316 Stainless Steel

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