

Recommended Specifications

KEYSTONE

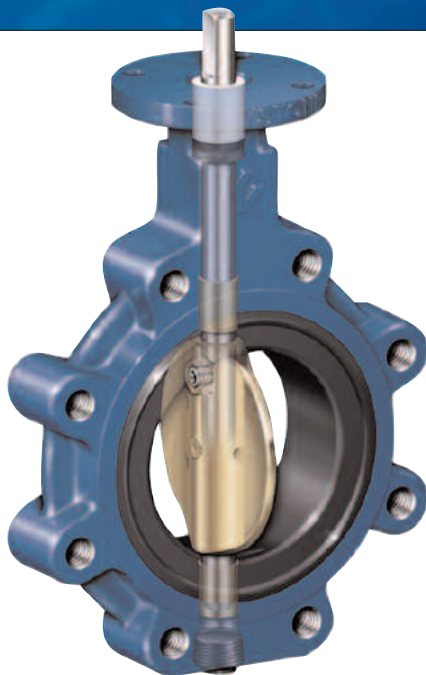


Figure 222 Butterfly Valve

General Specification

The valve shall be capable of drop-tight service to 250 psig [16 bar] and vacuum. Valve shall be fully rated for bi-directional dead end service.

Flange Mating

Valve body shall be wafer lug style and be drilled and tapped to 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 media, and a heavy duty upper stem bushing. Bi-directional stem packing shall be made of NBR and shall ensure a dry stem design.

Field Installation

The valve shall be capable of being installed with the valve disc in the open or closed position, and shall require flange spreading of only $1/16$ " beyond the laying length of the valve.

Materials of Construction

Body: Cast Iron ASTM 126 Class B

Seat: NBR
EPDM

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

Size: 2" - 12"

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