

Recommended Specifications

KEYSTONE



Figure AR1 Resilient Seated Butterfly Valve

General Specification

The valve shall be capable of bi-directional, drop-tight service to 175 psi (2" - 12") and 150 psi (14" - 36").

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 dovetail seat shall ensure drop-tight, bi-directional shutoff and shall be field replaceable. 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. Outside diameter of disc shall be such that, when opened, it will not interfere with adjacent piping.

Stem

The stem shall be one piece.

Disc-Stem Connection

The disc and stem shall be connected by a 316 stainless steel torque plug (2" - 12"), stainless steel disc screws (14" - 20"), and stainless steel taper pins (24" - 36"). These connections shall provide positive engagement, preventing blow-out of the one piece stem, 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.

Upper Stem Bushing/Stem Packing

2" - 12" valves shall have upper and lower inboard stem bearings isolated from the line medium. All valves shall have a heavy-duty upper stem bushing and bi-directional stem packing.

Materials of Construction

| | |
|----------------------------|--|
| Body: | Cast Iron Ductile Iron |
| Seat: | NBR Foodgrade EPDM Foodgrade Other |
| Disc: | Aluminum-Bronze 316 Stainless Steel Ductile Iron |
| Stem: | 316 Stainless Steel (2" - 12") 18-8 Stainless Steel (14" - 20") 17-4 Stainless Steel (24" - 36") |
| Upper Stem Bushing: | Acetal |
| Stem Packing: | BUNA-N |
| Size Range: | 2" - 36" |

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