Series BFV Butterfly Valves

- Phenolic backed cartridge seat design for extended service and ease of replacement.
- Can be used for vacuum service.
- Extended neck for insulation - no fabricated extensions required.
- Machined flats attach disc/stem - no pins.
- Valve features a retainer lip for dead end service.
- Triple seal reduces possibility of external leakage.
- Silicone free from the factory - no aftermarket cleaning required.

The most critical aspect of the Series BFV Butterfly Valves is the cartridge seat design, which alleviates installation problems associated with common "dove tail design" seats. Valve torque is lower and more consistent because the seat dynamics do not rely on being mated between two flanges. Precision machining of the disc and body allow the cartridge design to maintain a tighter disc seat tolerance, providing a perfect low torque seal each and every time the valve is cycled. Seat to disc seal is independent of flange support and capable of full rated dead end service. Select from wafer or lug patterns with either a 10-position locking handle lever or manual gear operator. Standard valves provide bubble tight sealing to 225 psi (15.5 bar) and are designed with MSS-SP-67 and API 609.

### Cv Values

<table>
<thead>
<tr>
<th>Size</th>
<th>10°</th>
<th>20°</th>
<th>30°</th>
<th>40°</th>
<th>50°</th>
<th>60°</th>
<th>70°</th>
<th>80°</th>
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</table>

### Specifications

**Valve Body**

- Service: Compatible liquids, gases, and steam.
- Line Size: 2" to 12".
- Body Style: 2-way, wafer or lug butterfly.
- End Connections: Flange, to be used with flanges that are ANSI Class 125 (B16.1) and ANSI Class 150 (B16.5) dimensions.
- Pressure Limit: 225 psi (15.5 bar) WOG.

**Operating Torque Valves (inch lb)**

<table>
<thead>
<tr>
<th>Service Pressure</th>
<th>EPDM Seats</th>
<th>PTFE Seats</th>
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<tr>
<td>200 psi</td>
<td>2&quot;-2 1/2&quot;</td>
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<tr>
<td>150 psi</td>
<td>3&quot;</td>
<td>4&quot;</td>
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<tr>
<td>50 psi</td>
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</table>

**Weight**

- 2": 3.5 lbs
- 2 1/2": 5.3 lbs
- 3": 6.8 lbs
- 4": 8.8 lbs
- 5": 10.7 lbs
- 6": 12.7 lbs
- 8": 18.0 lbs
- 10": 25.3 lbs

Wetted Materials:

- Body Material: Ductile iron
- Disc: 316 SS
- Seat and O-ring: EPDM or PTFE
- Stem: 410 SS

Temperature Limits:

- Disc: EPDM: -50°F (-46°C); PTFE: 0 to 250°F (-18 to 149°C)
- Bearings: Nylatron

Flow Rate: See Cv chart.

Operator:

- 2 to 6": 10-position locking handle lever
- 8 to 12": manual gear

### Applications

- Perfect for on-off or throttling service
- Ideal for shut-off of water in chillers, cooling towers, and thermal storage systems
- Irrigation systems
- Tank trucks
- Sewage systems, waste water treatment