### Flow Coefficients (Cv)

Cv degrees represent angle of disc opening.

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The flow characteristic of a valve is described as the Cv value. Cv is defined as the maximum flow of 60°F water expressed in GPM (Gallons per minute) which produces a 1 psi pressure drop across the valve.

### Assembly Number

<table>
<thead>
<tr>
<th>Series</th>
<th>Config</th>
<th>Size</th>
<th>Close Off</th>
<th>Disc/Seat</th>
<th>Actuator</th>
<th>Controls</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>BF 2</td>
<td>2 04  V</td>
<td>E</td>
<td>81</td>
<td>E</td>
<td>E</td>
<td>7 8</td>
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</tbody>
</table>

#### 2-Way Valve Assembly

- **Series**: BF = BF Butterfly Valve
- **Config**: 2 = 2-way, 3 = 3-way
- **Size**: 10" - 24"
- **Close Off**: Disc/Seat
- **Actuator**: 81 = Non-Spring Return / Double Acting

#### 3-Way Valve Assembly

- **Series**: BF = BF Butterfly Valve
- **Config**: 2 = 2-way, 3 = 3-way
- **Size**: 10" - 24"
- **Close Off**: Disc/Seat
- **Actuator**: 81 = Non-Spring Return / Double Acting

### Actuator Performance

- **Housing protection corrosion resistant weatherproof with a hard anodized finish**
- **Supply pressure minimum 80 psi, maximum 150 psi**
- **Operating media is clean dry air or non corrosive gas**
- **Compact and efficient and pinion design**
- **Travel stops for stroke adjustment**
- **Linear torque output through 90° stroke**
- **Narrow female input shaft allows for easy field rotation of actuator to conform to tight areas**
- **Operates smoothly with a hard anodized finish**
- **Narrow male input shaft allows for easy field rotation of actuator to conform to tight areas**
- **Class 100 assembly provides accurate and automatic valve positioning for temperature control**

### Valve Performance

- **2-way and 3-way assemblies 2" through 24"**
- **Grooved ends permit installation with couplings**
- **Rounded profile disc design has high flow coefficient**
- **Pressure responsive rubber seat design**
- **Multiple o-ring stem seal prevents leakage of stem**
- **Seal cartridge allows for easy servicing**
- **Upper and lower bearings reduce torque**
- **Rectangular drive eliminates fasteners**
- **Maximum seat temperature EPDM -30°F to 230°F**
- **Maximum valve body rating 300 psi**

### Standard Valve Construction

- **Item**: 1 Disc, 2 Seat, 3 Drive Hub, 4 Stem/O-Ring, 5 Bearing, 6 Stem, 7 ISO Flange, 8 Ends, 9 Body, 10 Cartridge
- **Material**: BRASS, STAINLESS, FIBERGLASS, DUCTILE IRON, STAINLESS, ALUMINUM

**Reducing Tees Available P.O.A.**

**ISO drilling in accordance to ISO 5211**

**Assembly Configurations**

- **Series**: BF = BF Butterfly Valve
- **Config**: 2 = 2-way, 3 = 3-way
- **Size**: 10" - 24"
- **Close Off**: Disc/Seat
- **Actuator**: 81 = Non-Spring Return / Double Acting
- **Accessories**: 7 = 7, 8 = 8, 9 = 9, 10 = 10

**Please specify 3-Way Configuration Located on Front of Brochure**

**Gold Seal Warranty**: 2 Years Limited Warranty