Series BFV Butterfly Valves are bi-directional allowing control of fluid flow and sealing in either direction, and are designed for installation between the faces of 125#/150# ANSI flanges. They do not require gaskets; the integral seat serves as the gasket. The wafer and lug bodies have bolt hole locations for alignment and attachment with mating flanges.

Prior to installation, close the valve. Spread the flanges apart far enough to allow the valve to slip easily between the flanges. Insert the valve between the flanges. Be sure to center the valve and not damage the liner. Allow the flanges to return to their un-separated state. Install and hand-tighten all flange bolts. Slowly open the valve, checking for free movement of the disc. If no obstruction is encountered, leave valve in the open position and tighten all flange bolts. Be certain to keep flange faces as parallel as possible during and after tightening bolts or studs. After final tightening, again check the valve for full opening and closing.

Lug style bodies used for dead end service must be installed as marked valve for full opening and closing.

### 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.

**Wetted Materials:**

- **Body Material:** Ductile iron.
- **Disc:** 316 SS.
- **Seal and O-ring:** EPDM or PTFE.
- **Temperature Limits:** Disc: EPDM: -50°F to 250°F (-46 to 121°C); PTFE: 0 to 300°F (-18 to 149°C).
- **Bearings:** Nylatron.
- **Flow Rate:** See Cv chart.
- **Operator:** 2 to 6: 10-position locking hand lever. 8 to 12’: manual geared.

### Dimensions (in mm)

<table>
<thead>
<tr>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>D1</th>
<th>n, WF</th>
<th>n, LT</th>
<th>M</th>
<th>E</th>
<th>d</th>
<th>h</th>
<th>L</th>
<th>P</th>
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**Notes:**

- **B:** Flange, to be used with flanges that are ANSI Class 125 (B16.1) and ANSI Class 150 (B16.5) dimensions.
- **M:** Pressure Limit: 150 (B16.5) dimensions.
- **n, WF, n, LT:** See Cv chart.
- **E:** See Cv chart.
- **d:** See Cv chart.
- **h:** See Cv chart.
- **L:** See Cv chart.
- **P:** See Cv chart.
- **ISO 5211:** See Cv chart.

**Contact Information:**

W.E. ANDERSON DIV., DWYER INSTRUMENTS, INC.
P.O. BOX 358 • MICHIGAN CITY, INDIANA 46361 U.S.A.

Phone: 219/879-8000
Fax: 219/872-9057

e-mail: info@dwyer-inst.com

www.dwyer-inst.com
VALVE DISASSEMBLY
1. After removal of valve from the piping system, open the valve fully;
2. Remove the handle or actuator;
3. Remove the stem retaining pins;
4. Pull out the upper stem;
5. Pull out the bottom stem;
6. Remove the disc from the liner. Do not damage the disc edge;
7. Remove the liner;
8. If the valve has bushings and o-rings, remove by tapping with blunt instrument;
9. Inspect all components for wear and replace as required.

VALVE ASSEMBLY
1. Clean all reusable parts;
2. If valve has bushings and o-rings, tap them carefully;
3. Apply a lubricant or soapy solution compatible with elastomers to facilitate assembly;
4. Insert liner into body by pressing it into the body evenly;
5. Coat the upper stem with a general purpose lubricant & install into body;
6. Install bottom stem;
7. Install the operator;
8. Install retaining pins to both stems;
9. Check assembly by opening & closing the valve several times;
10. Follow installation instructions for reinstalling the valve in the piping system.

MAINTENANCE
No regular maintenance or lubrication is required.

WARRANTY
The Series BFV Butterfly Valve is warranted from defects in materials and workmanship for (1) year from the date of purchase. In the unlikely event the valve should fail, the unit can be returned to the factory for warranty repair if the warranty period has not expired. Contact our customer service department for an RGA number and to set up the return.

HAND LEVER "HL"

HAND LEVER DIMENSIONS [in (mm)]

<table>
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<th>Size</th>
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<tr>
<td>150 psi</td>
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<tr>
<td>200 psi</td>
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</table>

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P.O. BOX 358 • MICHIGAN CITY, INDIANA 46361 U.S.A.

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