RESILIENT SEATED BUTTERFLY VALVES

SIZES 2" - 24"

LUG & WAFAER
VALTORC is pleased to offer top-of-the-line products in pipeline flow control. The VALTORC Butterfly Valve (wafer body) and previous series (lug body) Butterfly Valves have been developed with extensive application, design and manufacturing expertise. These products are produced by employing modern manufacturing practices under a robust quality assurance system. These practices ensure consistent product quality and dependable performance. VALTORC Butterfly Valves have been designed to include state-of-the-art features that are described in this bulletin.

Features

- Stem connection available in standard VALTORC sizes or optional sizes to match standard secondary top plate drilling.

- Top plate double drilled to fit ISO 5711 dimensions and standard secondary bolt circle dimensions. All handles, gear operators and pneumatic VALTORC actuators are designed to mount directly to VALTORC Valves.

- Nylon PA 12 coated disc option ensures excellent corrosion resistance to several chemical media. The hard, non-porous sintered polymer has very low hygroscopicity and is suitable for use in drinking water and non-alcoholic foodstuffs.

- One piece stem with close tolerance double D drive eliminates the need for disc screws or taper pins.

- Double O-rings are molded in both upper and lower journals providing a superior secondary seal.

- Unique “Center-Lock” seat design virtually eliminates any seat movement during the seating and un-seating of the disc.

- Heavy duty one-piece body with extended neck for 2” piping insulation. Standard coating is two coats of hard, zinc-rich epoxy for excellent corrosion resistance.

- Two flange locating holes for sizes up to 12” and four flange locating holes from size 14” to 24” for easy alignment of valve during installation. They meet ANSI #125/150 or other world drilling standards.

- High strength disc with hand polished disc edge and hubs.

- Precision machined radius on the upper and lower disc hubs is pressed against upper and lower seat sealing faces for achieving primary sealing between disc and seat.
Material of Construction

**Body**
- Cast Iron ASTM A126 Class B
- Ductile Iron ASTM A536 Grade 65-45-12
- Carbon steel ASTM A 216 WCB

**Disc**
- Nylon 12 Coated Ductile Iron ASTM A536 Grade 65-45-12
- DI ASTM A 536 Grade 65-45-12 + Arcoy coated
- 316 Stainless Steel ASTM A351 Grade CF8M

**General Design and Manufacturing Standard:** API 609 / BS EN -593

**Seat Temperature Range:**

<table>
<thead>
<tr>
<th>Seat Type</th>
<th>Temperature Range</th>
<th>Min.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPDM</td>
<td>-13 °F ( -25 °C)</td>
<td>302 °F (150 °C)</td>
<td></td>
</tr>
<tr>
<td>BUNA-N</td>
<td>-13 °F ( -25 °C)</td>
<td>212 °F (100 °C)</td>
<td></td>
</tr>
<tr>
<td>White BUNA-N</td>
<td>-13 °F ( -25 °C)</td>
<td>212 °F (100 °C)</td>
<td></td>
</tr>
<tr>
<td>Viton / FKM</td>
<td>23 °F ( -5 °C)</td>
<td>392 °F (200 °C)</td>
<td></td>
</tr>
<tr>
<td>Silicone</td>
<td>-58 °F ( -50 °C)</td>
<td>356 °F (180 °C)</td>
<td></td>
</tr>
</tbody>
</table>

Viton is registered trademark of E.I. DuPont.

**Operators**

Valves up to size 12” can be supplied with lever handles for manual operation. Optional accessories for hand-lever operation can be provided for various flow control requirements. Pad locking can also be provided for preventing unauthorized operation.

Valves up to size 24” can be directly mounted with gear operators for manual operation. Gear operators can also be attached with chain-wheel operators for opening or closing valves located on pipelines at high elevations.

All valves can be directly mounted with pneumatic actuators or electric actuators and accessories for complete automation options such as fail open/close & positioner controlled. Valves can be mounted with manual overrides.

**Pressure Rating:**
For bi-directional bubble tight shut-off and full vacuum service with disc in the closed position.

<table>
<thead>
<tr>
<th>Inch</th>
<th>DN</th>
<th>PSIG</th>
<th>BARG</th>
</tr>
</thead>
<tbody>
<tr>
<td>2”- 12”</td>
<td>50-300</td>
<td>175</td>
<td>12</td>
</tr>
<tr>
<td>2”- 24”</td>
<td>50-600</td>
<td>150</td>
<td>10</td>
</tr>
<tr>
<td>2”- 24”</td>
<td>50-600</td>
<td>50</td>
<td>3.5</td>
</tr>
<tr>
<td>2”- 12”</td>
<td>50-300</td>
<td>230</td>
<td>16</td>
</tr>
</tbody>
</table>

*Optional, contact factory for details.

**Dead-End Service:** Without a downstream flange installed, the dead-end pressure ratings are equal to the values stated above.

**Testing Standard:** API 598 / BS EN 12266-1