HIGH FLOW RESILIENT SEATED BUTTERFLY VALVES

SERIES 1300

SIZES 2"-24"

LUG & WAFER
Features

1. High Strength Stem: Stem connection available in standard VALTORC sizes.

2. Top plate drilled to fit ISO 5211 dimensions. All handles, gear operators, pneumatic and electric VALTORC actuators are designed to mount directly to VALTORC Valves.

3. Four flange locating ribs 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.

4. Unique stem retention system to provide blow-out proof stem and easy assembly and disassembly of valve.

5. Unique “integral rubber rich seat” in various elastomeric materials provides ultimate sealing in a wide variety of applications. Integral rubber rich seat offers all the advantages of a cartridge seat and the integrity of one-piece body/seat design. This construction allows easy installation between tightly spaced flanges without using flange spreader. Offers 100% bi-directional sealing against vacuum and dead end service to full rated pressure without the use of a downstream flange.

6. Heavy duty one-piece body. Standard coating is two coats of hard, zinc-rich epoxy for excellent corrosion resistance.

7. Heavy duty acetal bushing absorbs the forces acting on the stem/disc assembly due to line pressure.

8. The secondary sealing is achieved through double integrally molded ‘O’ rings which are compressed around the stem.

9. Positive disc stem engagement by a precision machined square drive, eliminating potential leak path and failure of stem joint.

10. 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.

11. High flow disc design provides a streamlined flow passage, enhanced flow characteristics and reduced resistance to flow especially for control applications.

12. 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 food grade applications.

13. Flange gasket (‘O’ ring) is integral to the body lining which eliminates the need of separate gasket.
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 + Epoxy coated
- 316 Stainless Steel ASTM A351 Grade CF8M

Stem
- 410 Stainless Steel ASTM A479 Type 410
- 316 Stainless Steel ASTM A276 Type 316
- Carbon steel BS 970

Seat
- EPDM - Food Grade
- Buna-N - Food Grade
- Viton® / FKM - Food Grade
- Silicone

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>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>
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</tbody>
</table>

Viton® is registered trademark of E.I. DuPont.

Testing Standard: API 598 / BS EN 12266-1

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>
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</thead>
<tbody>
<tr>
<td>2”-24”</td>
<td>50-600</td>
<td>50</td>
<td>3.5</td>
</tr>
<tr>
<td>2”-24”</td>
<td>50-600</td>
<td>150</td>
<td>10</td>
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<tr>
<td>2”-24”</td>
<td>50-600</td>
<td>230</td>
<td>16</td>
</tr>
</tbody>
</table>

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

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 direct 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 direct 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.