

SPLIT BODY PTFE SEATED BUTTERFLY VALVE

The figure 761/762 series valve is a split body boot seated butterfly valve designed for bubble tight service on corrosive applications. The PTFE lined seat and stainless steel disc/stem provide superior corrosion resistance, but with the economy of a cast iron body.

Features:

- Rated to 150 PSI
- Designed for 125/150 Lbs Flanges
- Locating Flange Holes on All Wafer Models (Fig. 761)
- Split Body for Easy Maintenance
- Heavy-duty Square Groove Boot Seat
- Lockable Lever Handle
- Lug Bodies for Dead-End Service Rated to 75 PSI Without Downstream Flange*
- Vacuum Rated to 29.92"Hg (0.00075 Torr)**
- Shell Tested to 150% & Seat Tested to 110% of Maximum Working Pressure
- Two Layer Epoxy/Polyurethane Body Coating
- Low Maintenance Design
- Sizes 2" to 12"

Standards:

- Design: API 609
- Flange Connection: ANSI B16.5
- Testing: API 598
- Mounting Pad: ISO 5211



Fig. 762

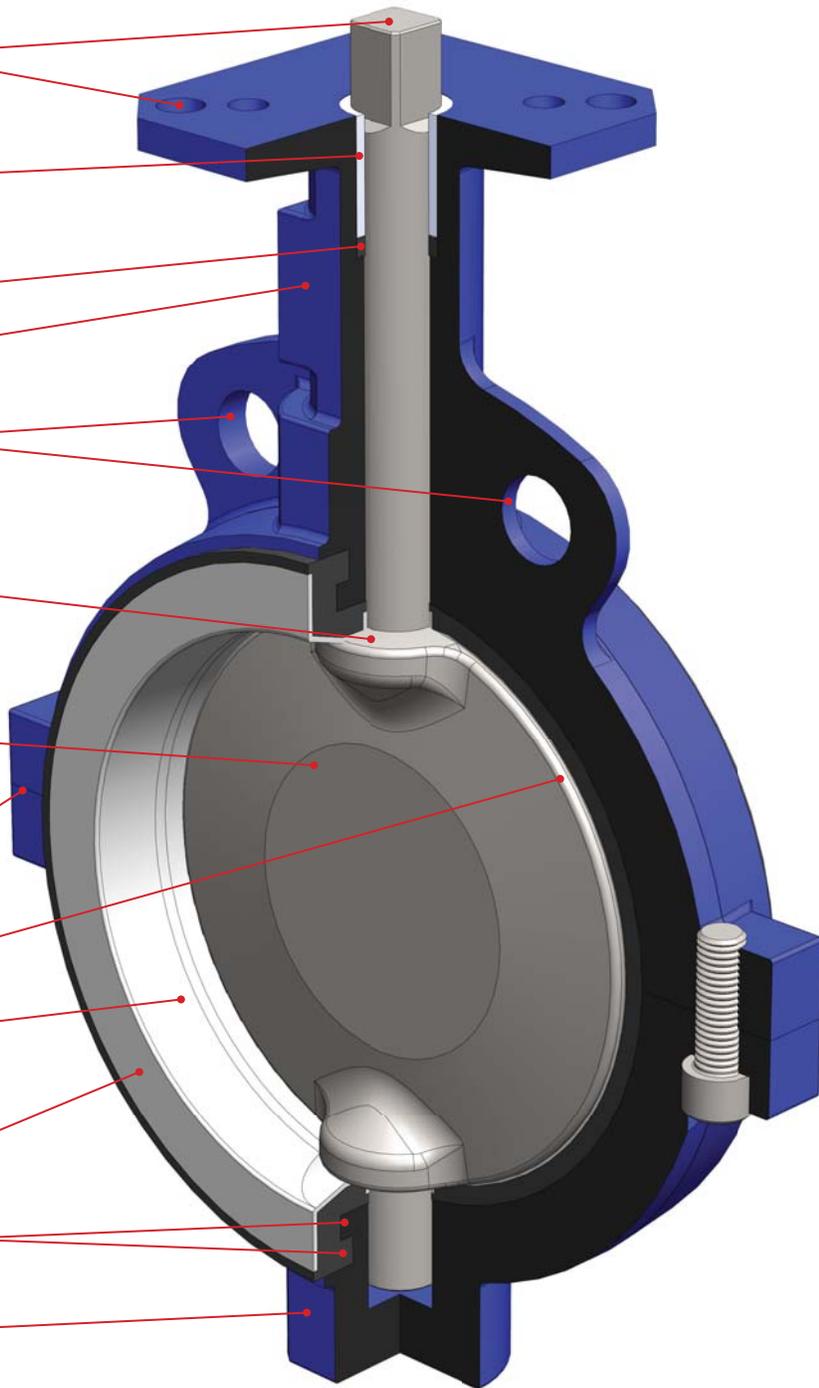
Fig. 761

* Dead-end service with downstream flange is rated to the valve's full 150 PSI capacity.

** Leakage rate not exceeding 1×10^{-6} cc/sec. Vacuum measurements are often made in inches of mercury below atmospheric pressure. The values calculated here assume standard atmospheric pressure of 29.92 inches of mercury.

Design Features:

- ISO 5211 actuator mounting pad with square stem for direct mounted actuation
- Heavy-duty polyacetal bushing absorbs side load forces created by pressure on the stem/disc
- Bidirectional "U" cup stem seal
- Extended neck accommodates 2" piping insulation
- Wafer valves include two flange locating holes meeting ANSI B16.5 for 125/150 lbs flanged for easy alignment during installation
- Precision machined wide radius on upper and lower disc hubs provide a superior primary seal between disc and stem
- Single-piece stainless steel disc and stem provides corrosion resistance, strength, and a thin profile to flow
- Heavy-duty cast iron split body for easier maintenance
- Disc edge and hubs are hand polished for improved seal ability
- PTFE seat with EPDM backing provides corrosion resistance and seat resiliency
- A resilient flange face acts as flange gasket for installation
- Heavy-duty square groove locks boot seat in place
- Two layer coating starting with Epoxy Zinc Phosphate Primer followed by a Polyurethane top coat



Standard Materials

| Ref. No. | Description | Material | Qty | Remarks |
|----------|--------------------|--|-----|------------------------|
| 1 | Upper Body | ASTMA126 Gr. B CAST IRON | 1 | |
| 2 | Lower Body | ASTMA126 Gr. B CAST IRON | 1 | |
| 3 | Stem Seal | NITRILE | 1 | |
| 4 | Stem Bushing | POLYACETAL | 1 | |
| 6 | Disc / Stem | ASTMA351 CF8M / SS316 SH STAINLESS STEEL | 1 | |
| 7 | Seat | PTFE LINED EPDM | 1 | |
| 8 | Body Locating Pins | CARBON STEEL En8 | 2 | Zinc Plated, Not Shown |
| 13 | Stop Plate | CARBON STEEL ZINC PLATED | 1 | Zinc Plated |
| 14 | Lever | CARBON STEEL | 1 | 2"-6", Powder Coated |
| 15 | Body Screw | 304SS STAINLESS STEEL | 2 | |
| 16 | Lever Bolt | CARBON STEEL | 1 | Zinc Plated |
| 17 | Gear Operator | CAST IRON | 1 | 8"-12" |
| 18 | Handwheel | CARBON STEEL | 1 | 8"-12", Fabricated |
| 19 | Gear Mtg Bolt | CARBON STEEL | 4 | 8"-12", Zinc Plated |

Options:

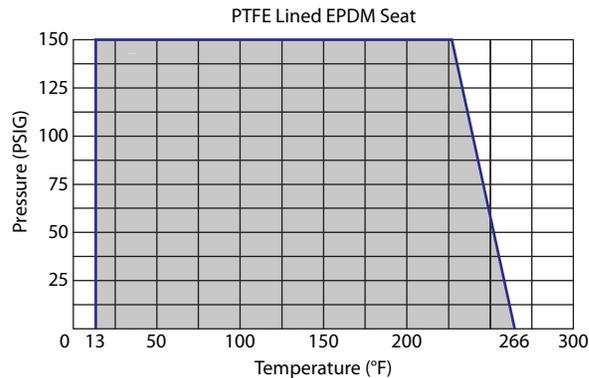
FNW offers many options and modifications for valves. These include, but are not limited to: Actuation including chain wheels, square drive nuts, worm-gear operators, pneumatic and electric operators, control accessories, stem extensions, and custom mounting hardware. Contact FNW with your specific application needs.

SPLIT BODY PTFE SEATED BUTTERFLY VALVE

Cv (Flow Coefficient)

| SIZE | DEGREES of DISC OPENING | | | | | | | | |
|--------|-------------------------|-----|-----|-----|-------|-------|-------|-------|-------|
| | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° |
| 2" | 1 | 4 | 11 | 19 | 34 | 59 | 92 | 120 | 127 |
| 2-1/2" | 2 | 6 | 21 | 38 | 67 | 117 | 181 | 238 | 251 |
| 3" | 2 | 7 | 30 | 58 | 102 | 177 | 275 | 360 | 381 |
| 4" | 3 | 8 | 32 | 73 | 136 | 222 | 348 | 538 | 724 |
| 5" | 4 | 13 | 82 | 142 | 223 | 357 | 646 | 955 | 1,147 |
| 6" | 4 | 19 | 94 | 203 | 340 | 539 | 800 | 1,196 | 1,454 |
| 8" | 10 | 85 | 201 | 351 | 567 | 901 | 1,552 | 2,368 | 2,763 |
| 10" | 16 | 135 | 318 | 556 | 897 | 1,425 | 2,457 | 3,771 | 4,525 |
| 12" | 23 | 196 | 463 | 838 | 1,328 | 2,136 | 3,661 | 5,609 | 6,731 |

Cv is the volume of water in U.S. gallons per minute that passes through the valve at a pressure drop of 1 PSI at 68°F. Butterfly valves used for throttling service is limited to a maximum pressure drop of 20% of the inlet pressure at maximum open position. Recommended control angles are between 25° and 70°. Preferred angle for control valve sizing is 60° to 65° open.



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