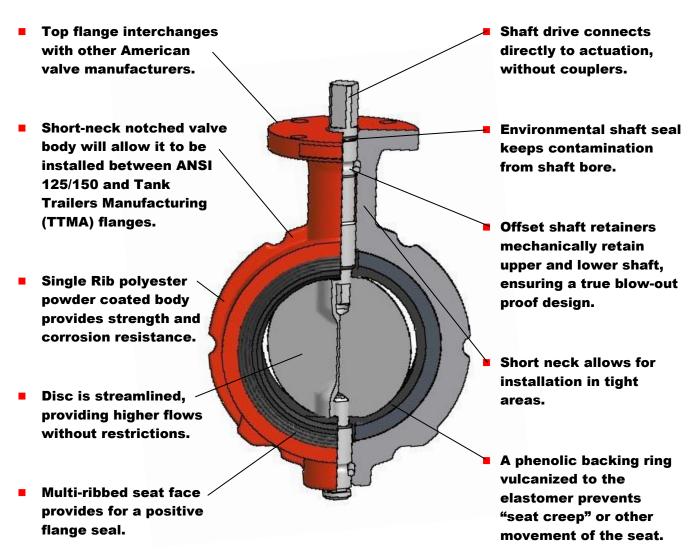
FlowLine Series 70W



FEATURES

The **Series 70W** Wafer Style Butterfly Valve is a purpose-built valve made for harsh and demanding working environments. It incorporates a standard body material of ductile iron, shortened-neck, and 30% larger shaft diameter. The Series 70W will mount between ANSI 125/150 slip-on, weld-neck, screwed-end, and TTMA light weight flanges. All valves are bi-directionally tested to 200 psi. The top mounting plate and upper shaft connection interchanges with other existing valve manufacturers.



COMPONENTS

| Qty | Description | | | | | | | |
|-----|--------------------|--|--|--|--|--|--|--|
| 1 | Body | | | | | | | |
| 1 | Disc | | | | | | | |
| 1 | Seat Upper Stem | | | | | | | |
| 1 | | | | | | | | |
| 1 | Lower Stem | | | | | | | |
| 3 | O-Rings | | | | | | | |
| 2 | Retainer Pins | | | | | | | |

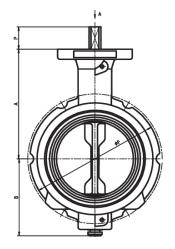
COATINGS

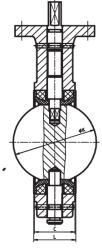
Flow Line Series 70W Butterfly Valve bodies are polyester coated, as standard. Polyester Is a significant upgrade to paint or two-part epoxy coatings. Our standard polyester coating offers outstanding protection against abrasion and corrosion. The Flow Line Polyester coating is not affected by outdoor exposure and maintains excellent resistance to UV rays.

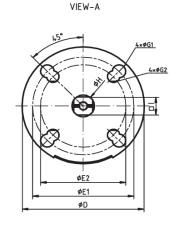
| TEST | RESULT |
|------------------------------|---|
| Salty Fog Test | No change in excess of 2000 hours |
| Outdoor Weathering (UV Rays) | No noticeable change in excess of 12 months |
| 50% Sulfuric Acid Test | No change for 48 hours |

ENGINEERING

DIMENSIONS







| 0.625 | A | В | С | D | E1 | E2 | F | G1 | G2 | н | K | L | 1 | P | Wgt |
|--------|-------|------|------|------|------|------|-------|------|------|------|-------|------|-------|------|-----|
| 2" | 3.94 | 2.99 | 1.63 | 4.02 | 3.25 | 2.76 | 4.08 | 0.41 | 0.39 | 0.75 | 2.11 | 1.72 | 0.625 | 0.98 | 5 |
| 2 1/2" | 4.53 | 3.33 | 1.75 | 4.02 | 3.25 | 2.76 | 4.88 | 0.41 | 0.39 | 0.75 | 2.54 | 1.85 | 0.625 | 1.02 | 6 |
| 3" | 4.88 | 3.58 | 1.74 | 4.02 | 3.25 | 2.76 | 5.35 | 0.41 | 0.39 | 0.75 | 3.11 | 1.85 | 0.625 | 0.98 | 7 |
| 4" | 6.02 | 4.21 | 2.0 | 4.02 | 3.25 | 2.76 | 6.85 | 0.41 | 0.39 | 0.75 | 4.11 | 2.09 | 0.625 | 1.26 | 10 |
| 5" | 5.98 | 4.8 | 2.13 | 4.02 | 3.25 | 2.76 | 7.84 | 0.41 | 0.39 | 0.94 | 5.12 | 2.23 | 0.625 | 1.26 | 13 |
| 6" | 6.52 | 5.3 | 2.13 | 4.02 | 3.25 | 2.76 | 8.74 | 0.41 | 0.39 | 0.94 | 6.12 | 2.23 | 0.625 | 1.22 | 13 |
| 8" | 8.14 | 6.98 | 2.5 | 6.02 | 5.0 | 4.02 | 10.98 | 0.53 | 0.47 | 1.25 | 8.14 | 2.61 | 0.875 | 1.22 | 30 |
| 10" | 9.37 | 8.21 | 2.5 | 6.02 | 5.0 | 4.02 | 13.39 | 0.53 | 0.47 | 1.25 | 10.08 | 2.61 | 0.875 | 1.22 | 42 |
| 12" | 10.89 | 9.76 | 3 | 6.02 | 5.0 | 4.02 | 16.07 | 0.53 | 0.47 | 1.56 | 12.08 | 3.1 | 1.125 | 1.26 | 68 |

TORQUE

2" 4" 6" Shutoff Pressure 2 3" 5" 8" 10" 12" 130 200 350 535 770 1350 2100 3000 90 50 psi 3800 100 psi 94 138 212 382 597 876 1600 2580 150 230 430 690 1035 1975 3300 5000 175 psi

CV VALUES

| Degrees | 2" | 2 | 3" | 4" | 5" | 6" | 8" | 10" | 12" |
|---------|----|-----|-----|-----|-----|-----|-----|-----|------|
| 30° | 14 | 21 | 31 | 55 | 86 | 123 | 217 | 334 | 451 |
| 50° | 45 | 63 | 98 | 173 | 268 | 384 | 679 | 104 | 1500 |
| 90° | 15 | 266 | 457 | 860 | 132 | 202 | 354 | 558 | 8080 |

MATERIALS OF CONSTRUCTION

Body

■ Ductile Iron ASTM A-395

Disc

- Coated Ductile Iron ASTM A-536 (65-45-12)
- 316 Stainless Steel ASTM A-251 (CF8M)

Stem

- 416 Stainless Steel ASTM A-582 Type 416
- 316 Stainless Steel ASTM A-276 Type 316

Seat

- Buna N-FDA Food Grade 0° to +180°
- EPDM FDA Food Grade -30° to +275°
- Viton® FDA Food Grade 0° to +375°
- Hypalon 0° to -180°
- Red Rubber 0° to -275°

Viton® is a registered trademark of the E.I. DuPont De Nemours Company. FKM is the ASTM D1418 designation for Fluorinated Hydrocarbon elastomers, such as Viton® (DuPont) and Flourel® (3M).

RECOMMENDED SPECIFICATIONS

- One-piece ribbed ductile iron body provides strength.
- Versatile body design allows a choice of ANSI 125/150 or TTMA light-weight flanges.
- Streamline disc design with no eternal fasteners allows higher Cv with lower pressure-drop seals, as standard.
- Upper and lower shaft to be 30% greater diameter for added strength.
- A 360° radial shaft seal between the seat and disc journals, that is pressure responsive for positive sealing.
- Valve to be Flow Line Series 70W.

Notes:

- Torque chart is to be used as a guide only.
- These torque ratings do not apply to every possible service criteria, which may affect seating and unseating torque.
- ♦ Torque vales are applicable to Flow Line Series 70W.
- Dynamic Torque should always be a consideration when sizing valves with high differential pressures.
- For 3-Way tee assembly, multiply the above torques by 1.5.
- ♦ Valve is to be operated a minimum of once each month.
- Temperature is well within resilient seat limits.
- ♦ Line media is self lubricating. (Aqueous liquids)
- Minor chemical attacks on seat.
- ♦ Disc corrosion and media deposits to be mild.

ACTUATION







Applicable Standards

ANSI B16.1 Conforms to ANSI Class 125 flange drilling.

ANSI B16.5 Conforms to ANSI 150 flange drilling.

■ ANSI B16.42 Conforms to ANSI Class 150 flange drilling, body-wall thickness, and pressure-temperature

ratings.

ANSI B16.104 Exceeds Class VI shutoff requirements.

API 609 Butterfly Valve Category A.

AWWA C504 Diameter of stainless steel shaft exceeds AWWA Class 75B standard. Body-wall thickness

exceeds the AWWA Class 150B standard for butterfly valves.

MSS SP-25 Markings and identification conform to requirements.

MSS SP-67 Butterfly valves

■ ISO 5211 Actuator Mounting

USCG Category "A" Title 46, CFR, Part 56

ABS American Bureau of Shipping

MRO 175 NACE

Warranty

All products manufactured by Flow Line Valve and Controls, LLC. Are warranted against defects in material and workmanship for a period of 2 years following the date of purchase.

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