POLYPROPYLENE BUTTERFLY VALVES

High Performance, Low Profile Design
With Spears® Advanced Sealing Technology
100% Made in the USA!

Spears® patented Butterfly Valve Seat departs from traditional liner-seat type valves for improved performance, ease of operation and superior sealing. Engineered for high volume flow control or throttling, this high performance valve is ideally suited for use in applications requiring Polypropylene’s broad range of chemical resistance, such as Industrial & Chemical Processing, Mining, Pulp & Paper, Water Parks, Aquariums & Aquaculture, and Municipal Water & Waste Water Treatment. Manufactured from UV stabilized Polypropylene in IPS sizes 1-1/2" – 24" with custom produced 30"- 60" valves available.

Patented Limited Contact Seat Design
Sealing contact between disc and seat takes place only at close of valve, allowing free travel through full range of valve opening. Eliminates seat creep, extrusion, and wear typically associated with conventional liner-type seats. Exclusive design interlocks seat and body to prevent washout or blowout while maintaining a leak-tight seal.

UV Stabilized, Polypropylene Construction
Chemical and Corrosion Resistant Polypropylene Body and Disc are produced from UV stabilized material, beige in color. Serviceable to 180° F.

Solid Type 316L Stainless Steel Stem - Fully Isolated
Heavy blow-out proof 316 stainless steel stem is standard on all valves. Fully isolated (dry stem) eliminates contact with process fluid.

High Impact Polypropylene Lever Handle
Available on 1-1/2" through 8" sizes, provides quick selection from any one of seven stop positions, with built-in lockout capability. Reversible 180° for either right or left side operation.

Low Profile Gear Operator
Standard on 10" and larger sizes, utilizes high efficiency worm gear drive, with high impact polypropylene hand wheel, built-in position indicator, and epoxy coated housing. Available as an option on smaller valves.

Field Replaceable Seat - Choice of Buna-N, EPDM, or Viton®
High-grade elastomer compounds provide a broad range of chemical resistance. Abrasion resistant Buna-N, EPDM and Viton®.

ANSI Class 150/125 Bolt Pattern
Provides compatibility with system applications.

Factory Actuated Valve Availability
Factory installed electric or pneumatic actuation options and custom accessories available.

Large Diameter (30"- 60") Availability
Produced to order from UV stabilized Polypropylene, beige in color, in IPS sizes 30", 36", 42", 48", 54" and up to 60". Can be custom produced to virtually any size or standard.

PROGRESSIVE PRODUCTS FROM SPEARS® INNOVATION & TECHNOLOGY

Visit our web site: www.spearsmfg.com
Sample Engineering Specification

All thermoplastic valves shall be Butterfly type constructed from Polypropylene, ASTM D 4101. All valve seats and O-rings shall be Buna-N, EPDM or Viton®. Seat shall be a non-liner type interlocked to valve body. Bolt hole pattern shall conform to ANSI/ASME B16.5 Class 150. Disc shall be offset design with fully isolated, Type 316L stainless steel stem and Type 316 stainless steel hardware. Lever operated valves shall be equipped with high impact polypropylene handle having built-in lockout capability. Gear operated valves shall be equipped with position indicator and high impact polypropylene handwheel. Valves shall be pressure rated at [see table] for water at 73°F, as manufactured by Spears® Manufacturing Company.

### Materials:
- **Body**: Polypropylene³
- **Disc**: Polypropylene³
- **Stem**: 316L Stainless Steel
- **Handle (Lever)**: Polypropylene
- **Gear Operator**: Aluminum/Cast Iron
- **Gear Op Hand Wheel**: Polypropylene/Steel
- **Seat/Seals**: Buna-N, EPDM or Viton®

### Accessories:
- **Gear Operator Kits**
- **2" Square/T-style Gear Operator Nuts**
- **Chain Wheel Operators**
- **Stem Extensions (PVC housed SS 316 shaft)**
- **Seat & Seal Replacement Kits**
- **Electric & Pneumatic Actuation**

3 — Pigmented (beige)

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### Dimensions

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³ — Pigmented (beige)

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Contact Spears® for 30" to 60" Valve Dimensions

1: Maximum Internal Pressure Rating @ 73°F
2: Additional pressure rating is possible with attention to flow direction.

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