Ultraflo is proud to offer a line of economical, high pressure butterfly valves that meet today’s industrial process requirements.

**FEATURES**
- 500 Series Wafer and 522 Series Lug style cast iron bodies are offered. Lug bodies are drilled and tapped to meet ANSI Class 125/150 flanges.
- Disc is spherically machined and hand polished to provide a bubble tight shut-off, with minimum torque and extended life.
- Stem to disc connection features a taper pin design for high pressure requirements.
- Unique “tongue and groove” seat design is designed to seal with slip-on or weld-neck flanges. Seat totally encases the valve interior to isolate the body from the line media. In addition, all 500 Series seats are bonded for increased pressure rating.
- Molded seat O-ring provides seal between valve and pipe flanges. Flange gaskets should not be used with this valve.
- Primary and secondary seals are interference fits between seat and disc hub, and stem and seat stem hole respectively.
- Corrosion resistant, heavy duty acetal bushing absorbs side thrusts.
- Stem packing gland is a self-adjusting double “U” cup design and gives positive sealing in both directions, preventing external substances from entering the stem bore.
- Mounting flange meets ISO 5211 and allows direct mounting of Ultraflo manual operators and power actuators.
Dimensions

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<th>Valve Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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Materials of Construction

- **Bodies:** Polyester coated Cast Iron, A126 Class B
- **Seats:** Food Grade EPDM & Buna N
- **Discs:**
  - 316 Stainless Steel, A351 Gr. CF8M
  - Aluminum Bronze, B148-953
  - Ductile Iron (Phosphate Coated), A536 Gr. 65-45-12
- **Stems:** Type 416 Stainless Steel, A582 Cond.T
- **Taper Pins:** 17-4 PH, A564 Type 630, HT 1075

Pressure Ratings

- For bidirectional and dead end service, bubble-tight shut off, disc in closed position, 500 & 522 Series: 2"-20" 250 psi Tested to 110% of pressure rating.

Velocity Limits

- For On/Off Services:
  - Fluids – 30 ft/sec
  - Gases – 175 ft/sec

Temperature Range of Seats

- Aerospace-Bonded Food Grade EPDM: -40°F to 250°F
- Buna N: 0°F to 212°F

Cv Values–Valve Sizing Coefficient

- Cv is defined as the volume of water in U.S.G.P.M. that will flow through a given restriction or valve opening with a pressure drop of one (1) p.s.i. at room temperature. Recommended control angles are between 25°–70° open. Preferred angle for control valve sizing is 60°–65° open.

The data represented in this brochure is for general information only. Manufacturer is not responsible for acceptability of these products in relation to system requirements. Consult your Ultraflo representative for specific performance data and proper materials selection for your particular application.

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