

# Butterfly Valves / Operators / Actuators / Accessories

Ultraflo's Complete Product Line



## Butterfly Valves Resilient Seated



**Ultraflo Corporation** is a premier manufacturer of resilient seated butterfly valves and accessories. Since 1986, Ultraflo has been committed to providing the highest quality products at competitive prices. A focus on customer service and the ability to provide engineered turnkey solutions makes Ultraflo the best choice in handling your flow control needs.

### **410/412 Series 24"-48"**

Ultraflo's large diameter valve includes the 410 model, a wafer version in sizes 24"-36", and the 412 model, a double flanged version in sizes 24"-48". Both models have a bubble tight shut off pressure rating of 150 psi. 410 model valves have a V-cup self-adjusting stem seal. 412 model valves feature an adjustable packing stem seal.



### **400/422 Series 2"-24"**

Ultraflo's general purpose valve has a high strength through-stem design. The resilient seat incorporates a dovetail retention system to ensure complete isolation of line media from the body, positive alignment and ease of assembly. The CNC machined and hand polished disc edge produces bubble-tight shut off, minimum torque and longer seat life. The 400 model, a wafer version, and the 422 model, the companion lug, are rated 150 psi for 2"-24" valves. Dead end service ratings are 75 psi for 2"-12" bodies, and 50 psi for 14"-24" bodies.

### **390/393 Series 2"-12"**

The 390/393 Series valve has been designed specifically for pneumatic conveying and abrasive applications. The seat is designed for schedule 40 piping, moving the seat ID towards the inside diameter of the pipe wall. This results in smooth product flow and less wear from abrasion. Both the model 390 wafer and model 393 lug have a pressure rating of 150 psi with stainless steel disc/stems and 100 psi with encapsulated disc/stems. Valves installed in dead end service are rated at 75 psi.



### **399/392 Series 2"-12"**

Ultraflo's sanitary/chemical valve, the 399/392 Series has been designed for applications requiring high flow, minimal product entrapment and complete protection of the valve body from line media. To meet the requirements of demanding applications, a variety of seat materials, disc stem coatings and encapsulations are offered. Bodies are available in stainless steel, cast and ductile iron and aluminum. The model 399 wafer and the model 392 lug versions provide bi-directional pressure ratings of 150 psi with stainless steel disc/stems and 100 psi with encapsulated disc/stems. Dead end service ratings are at 75 psi.



### **500/522 Series 2"-20"**

Ultraflo's economical high pressure butterfly valve, the Series 500, features an elastomer seat which is bonded to the valve body by permanent adhesive. The seat is designed to seal with slip-on or weld neck flanges. These valves have a bidirectional dead end service pressure rating of 250 psi. Wafer and lug body styles are offered.

## Specialty Valves



### Fly Ash Series 4"-12"

Specially designed for low pressure, high heat and highly abrasive applications where immediate and bubble tight shut off is not required, the Fly Ash Series is ideal for fly ash collection systems. These valves feature minimal operating torque, ANSI Class 150 dimensional standards and a Schedule 40 bore. Available in wafer style body only.

### Railcar Series 2"-12"

Designed exclusively for the railcar industry, this line of butterfly valves offers the advantages of our standard 400 Series valves with additional features to meet the special requirements associated with pneumatic railcars. Specialty features include riveted disc, roll-pin handle to resist vibration, and pad lockable handle. Available in a wide variety of body disc and seat materials. Wafer and lug style bodies offered.



## Manual Operators

### Handles & Notch Plates

For manual operation, on-off and throttling service of 2"-12" valves. The quarter turn handle has a locking lever that engages the bolted notch plate providing positive disc position control and disc position indication. Stainless steel handles are offered for highly corrosive and sanitary applications. Notch plates are offered with 10 position slots as standard, 180° and infinite position plates are available. All notch plates offer open and closed stops, to prevent over rotation of the valve. Ultraflo's standard 2" - 6" valve handles can be padlocked in any position to prevent operation. They also include a locking tab that can be locked to a properly drilled valve top plate.



### Gear Operators

Self-locking for heavy duty service. Manual operation for on-off and throttling use for 2"-48" valves. Completely weatherproof and self lubricated with position indicator and adjustable travel stop. A Stainless Steel version of the operator is available for valve sizes through 12". A Chainwheel accessory is also available.



## Pneumatic Actuators

### 100 Series

100 Series pneumatic actuators are rack and pinion, opposed-piston actuators available in two versions: double acting and spring return. These actuators are suitable for both On-Off and Throttling applications and offer a torque range from 300 - 29,000 lb-ins at 80 psi. They have a maximum pressure rating of 140 psi and a temperature range of -40°F to +200°F. To save both cost and space, the spring return units are designed to use the same body as the double acting units. A spring



cartridge system makes the spring return units inherently safe. Other features include external travel stops and valve position indicator. 100 Series pneumatic actuators are available with an ENI (Electroless Nickel Impregnated) body which is ideal for corrosive and sanitary applications. Stainless Steel bodies are also available. All 100 Series actuators comply with NAMUR (VDI/VDE 3845) dimensions for accessory mounting.

## Accessories for Pneumatic Actuators



### 4 & 3-Way Solenoid Valves

For electrical operation of pneumatic actuator on-off functions, Ultraflo 4-Way Solenoids are direct mounted to the actuator by NAMUR interface, with no external tubing required. Both waterproof (NEMA 4) and explosion proof (NEMA 4,7,9) housings are standard. NPT and IP65 DIN connections are offered with both single and dual coils. A 3-Way Solenoid is also available.

### Valve Status Monitor

Ultraflo's Valve Status Monitor signals actuator and valve position to local and remote stations. Features include finger-touch control cams, captive cover bolts, local position indicator and two conduit entries for easy wiring. Rated for 15 amps at 125 or 250 volts AC, the Monitor is provided with internal travel switches that are prewired to a terminal block. Standard switches are two single pole double throw (SPDT) micro switches. Available switch options are 4 micro switches, 2 proximity switches, 2 pneumatic switches or potentiometer for continuous read out. The housing is available in waterproof (NEMA 4,4X) or explosion proof (NEMA 4,4X,7,9).



### Proximity Position Indicator

The Efactor Proximity Switch Valve Position Indicator provides two solid state inductive proximity switches in a self-contained, fully sealed enclosure. The NEMA 6 (IP 67) rated unit features a high visibility pointer and LED output for local position indication, nonmagnetic targets and a multi-pin electrical cable connector. AC and DC units are available. AC units operate on 20-140 VAC with a maximum load current of 200 mA. DC units operate on 10-36 VDC with a maximum load current of 250 mA.



### Electro-Pneumatic & Pneumatic Positioners

BLX's Electro-Pneumatic Positioner can be used with either single or double acting actuators, and can operate in standard or reverse modes. Zero and range adjustments can be set separately. Electro-Pneumatic units accept a 4-20 mA input signal and function as an integrated I/P converter. The Pneumatic Positioner automatically positions the output shaft to precise valve angles between 0° and 90° using a standard input signal of 3-15 psi. Waterproof and intrinsically safe housings are available.

## Electric Actuators



### 200 Series

Ultraflo's 200 Series Electric Actuators are built for rugged reliability. All units are waterproof to NEMA 4, 4x and are CE and CSA certified. Standard features include a manual override handwheel, visual position indicator, an extended duty induction motor with thermal overload cutoff, and a factory lubricated high alloy steel gear train. The 200 Series offer torque output from 800 to 31,000 lb-in. Actuators meet ISO 5211 dimensions. Popular options include a heater, 2 additional mechanical switches for remote position indication, local/remote on-off, torque switches and a 4-20 mA modulating controller.

*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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