

SERIES 400

LIGHT WEIGHT, 1 PIECE BODY DESIGN



NOTE 5" Valves Shown:
Light Weight Designs Available in 5" Valves Only

SERIES 400

STANDARD ALUMINUM 1 PIECE BODY DESIGN



NOTE 5" Valves Shown: ONLY 5" 400 Series Valves are manufactured with alignment ears as shown. Photographs are not representative of all valve sizes

400 Series

- Economical 1 Piece body design
- 2"-12"
- Lightweight, durable construction
- Seat design ensures positive retention and easy replacement
- Low profile neck increases clearance
- Direct mount top plate for easy automation
- Immediate availability

Ultraflo's 400 Series valves have set the standard in bulk trailer applications for both performance and economy. Engineered for long service at a low price, this valve incorporates all the advantages of resilient seated butterfly valves plus the features required in bulk trailer transportation applications. The 400 Series offers rugged, lightweight construction, smooth quarter-turn operation, and ease of installation and maintenance.

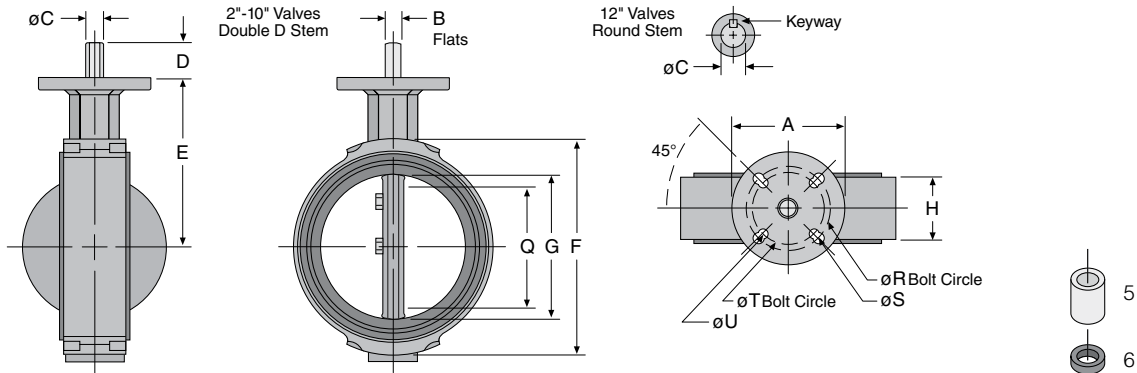
Features Primary and Secondary Seals prevent line media from contacting stem and body components. The primary seal is formed by an interference fit between the disc hub and the seat flat. The secondary seal is an interference fit between the stem and seat stem hole. Ultraflo's **Disc** edge is CNC contoured and hand polished to produce zero leakage shut off, minimum torque and longer seat life. Discs available in 316 Stainless Steel, Aluminum Bronze, Nodular Iron and Nylon Coated Nodular Iron. 400 Series **Stems** are constructed of high strength 17-4 PH Stainless Steel to eliminate twisting and includes industry standard connections for actuator mounting. **Upper and Lower Stem Bushings** are constructed of heavy duty non-corrosive thermoplastic polymer to eliminate galling and reduce torque. The **Upper Bushing** also absorbs operator side thrusts and ensures precision alignment. (The Lower Bushing is offered only on 4" and larger valves.) A **Stem Packing** ensures a positive seal for pressure or vacuum service and prevents external contaminants from entering the stem bore. **Body Recesses** ease installation alignment and accommodate lightweight flanges. The **Top Plate** has industry standardized drilling for total manual operator and actuator interchangeability. 400 Series **Disc Screws** are 316SS as standard and are sealed with Buna-N **O-rings** to prevent corrosive media from contacting the stem.

Tank Truck Service & Sales, Inc Warren, Michigan
800-482-2678 www.tanktruckservice.com

Dimensions **400 SERIES** 2" - 12" Valves

Valve Size		A	B	C	D	E	F	G	H	Q	Top Plate Drilling Dimensions				
In.	mm										R	S	T	U	Holes
2	50	4.00	.375	.563	1.250	3.938	4.025	2.125	1.625	1.531	3.250	.438	2.760	.375	4
2 1/2*	65	4.00	.375	.563	1.250	4.50	4.775	2.50	1.750	1.969	3.250	.438	2.760	.375	4
3	75	4.00	.375	.563	1.250	4.875	5.275	3.125	1.750	2.689	3.250	.438	2.760	.375	4
4	100	4.00	.437	.625	1.250	6.00	6.775	4.125	2.00	3.719	3.250	.438	2.760	.375	4
5	125	4.00	.437	.625	1.250	6.00	7.650	5.188	2.125	4.813	3.250	.438	2.760	.375	4
6	150	4.00	.438	.625	1.250	6.50	8.650	6.125	2.125	5.813	3.250	.438	2.760	.375	4
8	200	6.00	.500	.750	1.250	8.313	10.90	8.125	2.50	7.813	5.00	.563	—	—	4
10	250	6.00	.625	.875	1.250	9.125	13.275	10.125	2.50	9.906	5.00	.563	—	—	4
12	300	6.00	—	1.125	2.00	10.645	16.025	12.093	3.00	11.938	5.00	.563	—	—	4

* 2 1/2" size valves are offered only in cast iron bodies and are not available in aluminum.



Technical Data:

Materials of Construction

Body:

Cast Aluminum or Cast Iron Epoxy Coated

Resilient Seat:

Food Grade - Nitrile (black or white), Buna-N, or EPDM. Non Food Grade - FKM.

Disc (400S):

316SS, Aluminum Bronze, Ductile Iron and Nylon Encapsulated Ductile Iron

Stem:

17-4PH Stainless

Stem Bushing:

Upper & Lower - Thermoplastic Polymer

Body Bolt (400S):

Cadmium Plated Steel

Lock Washer (400S):

Cadmium Plated Steel

Dimension & Flanging Notes

H dimension is the installed width.

Q dimension is the minimum allowable inside diameter of the pipe or mating flange.

2" - 6" Valves are offered with 2 independent Top Plate Drilling patterns: R/S and T/U.

Flange Requirements: The valve O.D. and flange bolt circle must share a common center line.

All 400 Series aluminum valves are designed to fit lightweight and ASME 125/150 flanges. 4", 5", 6" and 8" valves require additional machining to fit TTMA flanges and require an "A" following the size indication in the part number. 2" 400 Series and all 3" Ultraflo valves fit TTMA flanges as standard.

400 Series Components

Item	Description	Qty.
1	Body	1
2	Seat	1
3	Disc	1
4	Stem	1
5	Upper Bushing	1
6	Stem Packing	1
7	Lower Bushing	1
	(4" and larger only)	
8	O-Ring	2
9	Disc Screw	2

Bidirectional Pressure Ratings

Disc Type	Rating
Standard Under-Cut Disc	50 psi
Optional Full Cut Disc	150 psi

400 Series bidirectional pressure ratings, disc in closed position.

Manual Operator Components

Handle:

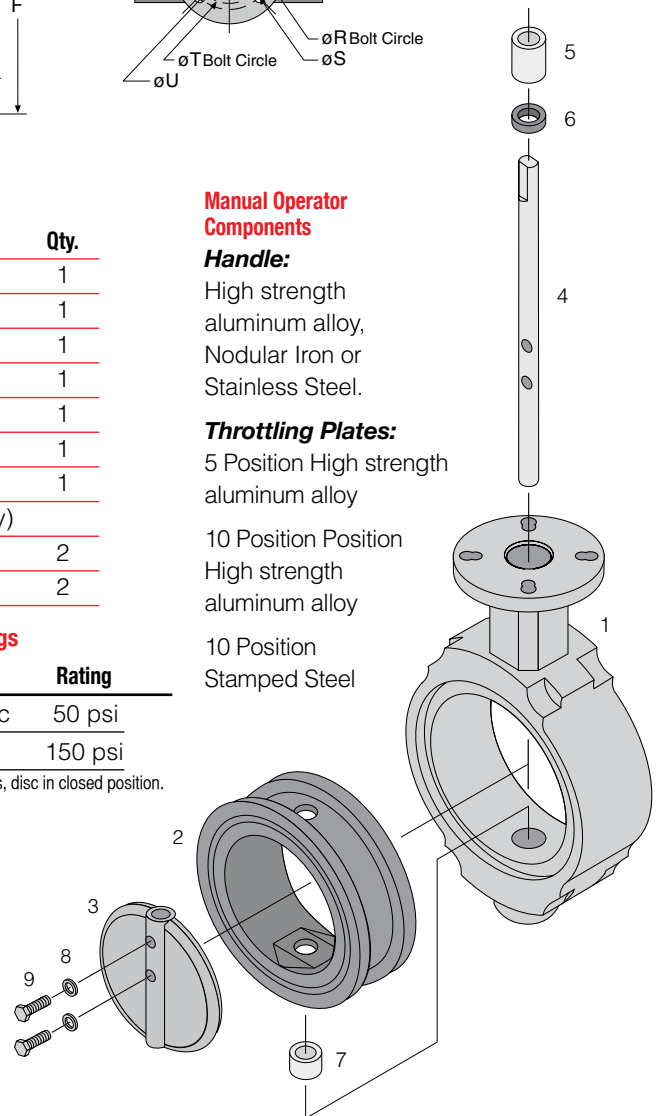
High strength aluminum alloy, Nodular Iron or Stainless Steel.

Throttling Plates:

5 Position High strength aluminum alloy

10 Position Position High strength aluminum alloy

10 Position Stamped Steel



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