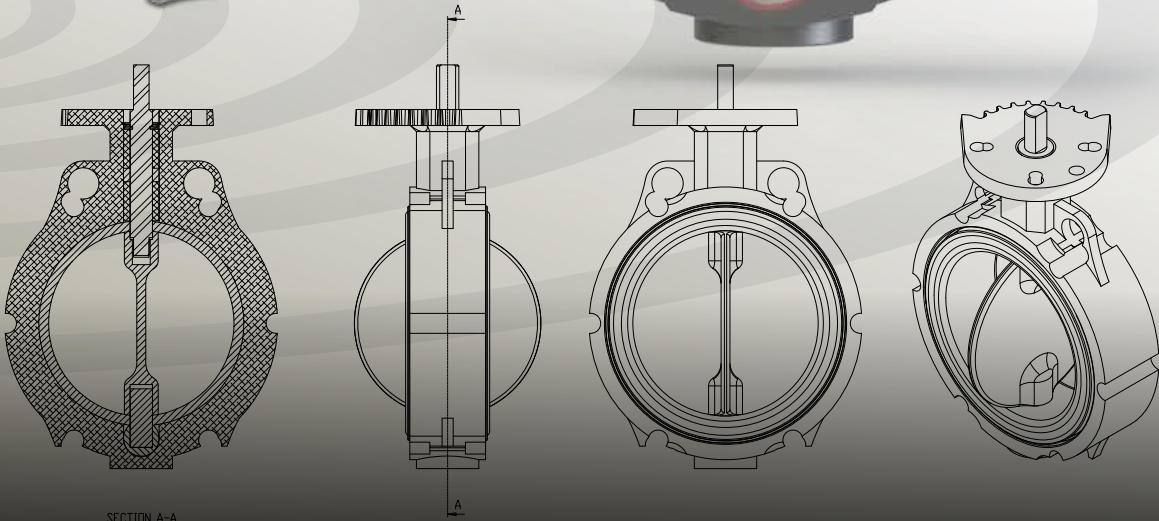
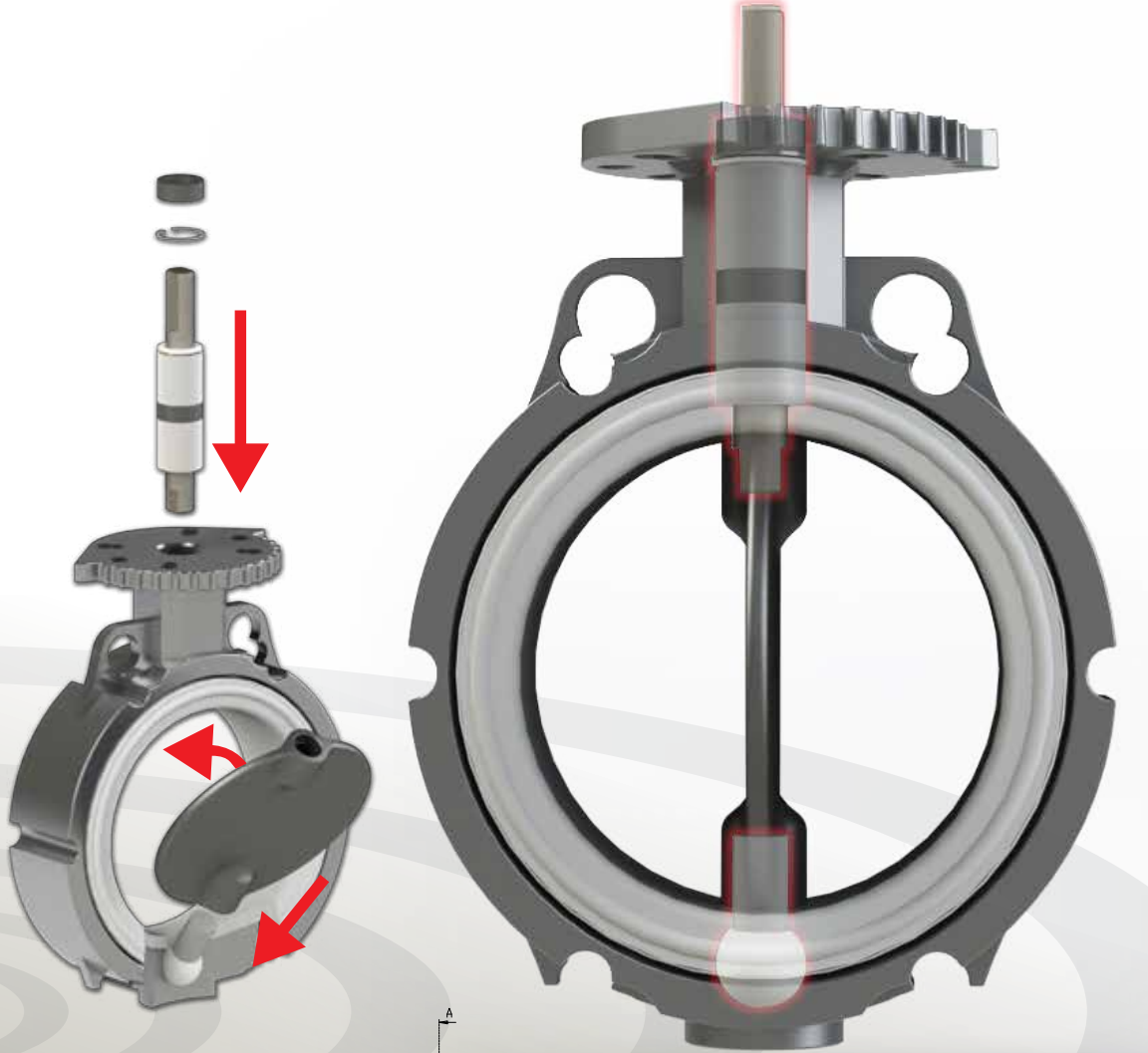




# UltraSphere™

780 Series Butterfly Valves



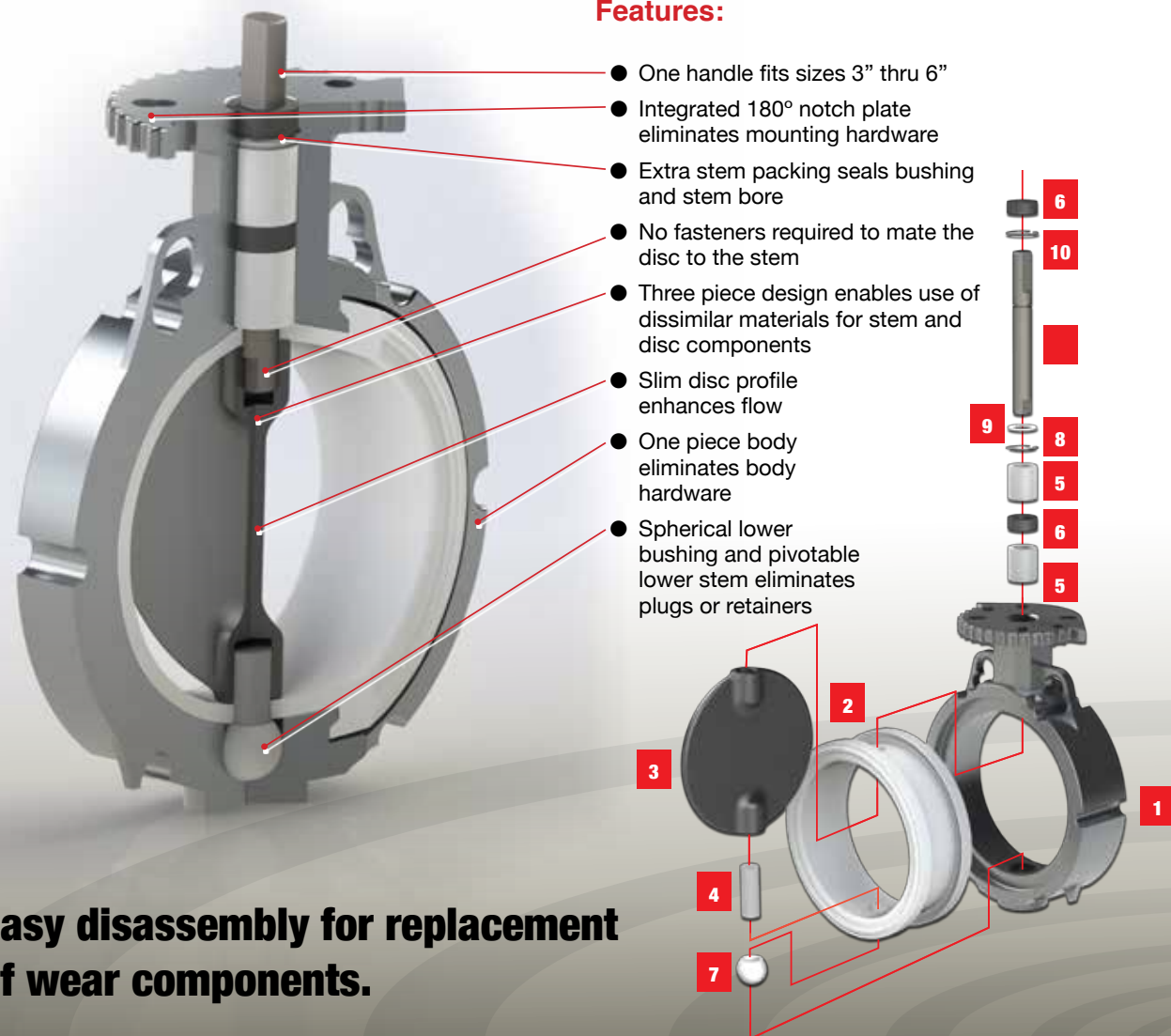


# UltraSphere™ 780 Series Butterfly Valves

## Better Valves For The Tough Transportation Industry

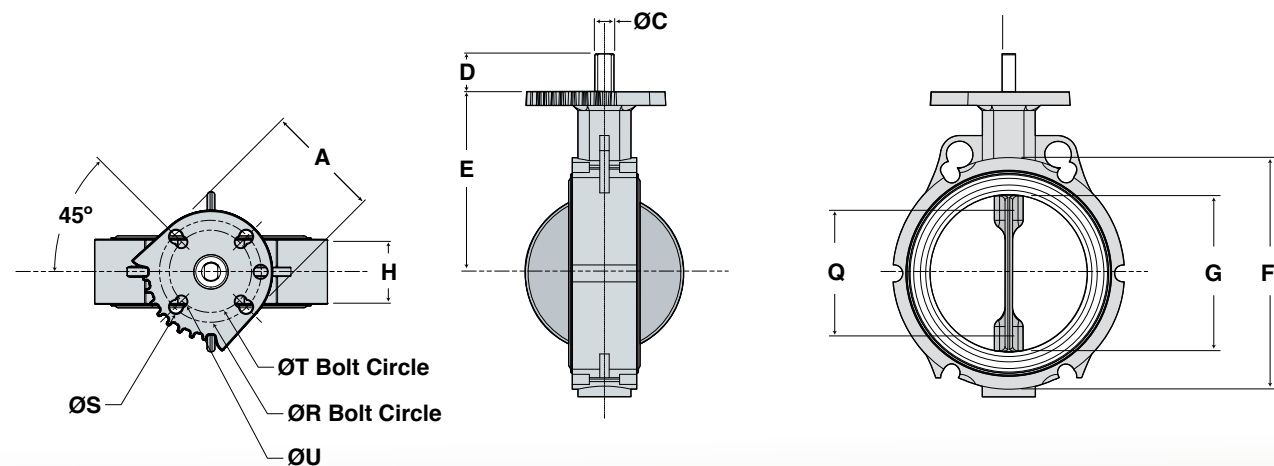
### UltraSphere 780 Series Dimensions 3" Thru 6" Valves

Valve Size		A	B	C	D	E	F	G	H	Q	Top Plate Drilling Dimensions				
In.	mm										R	S	T	U	Holes
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



#### Features:

- One handle fits sizes 3" thru 6"
- Integrated 180° notch plate eliminates mounting hardware
- Extra stem packing seals bushing and stem bore
- No fasteners required to mate the disc to the stem
- Three piece design enables use of dissimilar materials for stem and disc components
- Slim disc profile enhances flow
- One piece body eliminates body hardware
- Spherical lower bushing and pivotable lower stem eliminates plugs or retainers



#### UltraSphere Series Components

Item	Description	Qty.
1	Body	1
2	Seat	1
3	Disc	1
4	Stems	2
5	Upper Bushings	2
6	Stem Packings	2
7	Lower Bushing	1
8	External Retaining Ring	1
9	Bearing	1
10	Internal Retaining Ring	1

#### Technical Data:

##### Materials of Construction

###### Body:

Cast Aluminum

###### Resilient Seat:

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

###### Disc:

316SS, Ductile Iron and Nylon 11 Coated Ductile Iron

###### Stems:

17-4PH Stainless

###### Stem Bushings:

Upper & Lower - Thermoplastic Polymer

##### Manual Operator Components

###### Handle:

High strength aluminum alloy, Nodular Iron or Stainless Steel.

###### Throttling Plates:

5 Position High strength aluminum alloy  
10 Position High strength aluminum alloy  
10 Position Stamped Steel

##### Bidirectional Pressure Ratings

Disc Type	Rating
Standard Under Cut Disc	50 psi

780 Series bidirectional pressure ratings, disc in closed position.

##### Dimension & Flanging Notes

H dimension is the installed width.  
Q dimension is the minimum allowable inside diameter of the pipe or mating flange.  
3"- 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 **UltraSphere** aluminum valves are designed to fit lightweight and ASME 125/150 flanges. 4", 5", and 6" valves require additional machining to fit TTMA flanges and require an "A" following the size indication in the part number. 2" **UltraSphere** and all 3" aluminum bodied Ultraflo valves fit TTMA flanges as standard.

### Easy disassembly for replacement of wear components.

#### UltraSphere's 1 Piece Body Design

This economical, resilient seat valve is available in a wide variety of high quality materials including FDA approved blends and components for High Abrasion applications. Components precision machined to tight tolerances, **UltraSphere** delivers long service life, ease of operation and maintenance, and reduced cost.

**UltraSphere** is also ideal for abrasive applications due to the thin profile disc which increases flow capacity and reduces erosion of valve components.

**UltraSphere Features** Our Unique 180 degree Integrated notch plate. 180 degree notch plate allows both streetside and curbside installation. Integrated design eliminates hardware and galvanic corrosion.

#### Reduces Inventory Requirements

No separate Notch Plates  
No mounting hardware  
One handle size fits all 780 Series valves

#### Stronger Design

Allows use of stronger 5 position handles for all throttling requirements

Integrated travel stops and notches are twice as strong



#### Resilient Seat

Ultraflo's resilient **Seat** design is the heart of the **UltraSphere** valves. The seats incorporate a dovetail retention system to ensure positive installation alignment and ease of assembly. All Ultraflo seats include an integral flange face seal ring molded into the seat providing a positive tank seal. Additionally, the seat completely isolates the line media from the valve body, reducing wear and increasing service life.

**Ultraflo Corporation is ISO 9001:2000 certified.**

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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