399/392 **SERIES**

Ideal for Sanitary, Chemical and Corrosive Applications The 300

Series is one of the true sanitary butterfly valves on the market today. The two-piece split body allows for a one-piece investment cast disc/stem with a smooth finish free of porosity, voids or cracks. This design provides complete protection from particle entrapment. A variety of coatings are available for chemical and abrasive service as well as sanitary applications.

All sizes of Cast Iron, Nodular Iron and Aluminum bodies and 8"-12" Stainless Steel bodies have a CNC machined *Top Plate* (J) with standardized drilling for total actuator and operator interchangeability. A handle notch plate is supplied with the manual handle kit.

2"-6" Stainless Steel valve bodies feature an integrally cast *Throttling Top Plate* with a self draining recess ensuring complete drainage of wash-down media.



For high corrosive and sanitary applications, discs/stems are offered in high polish or satin finish 316 Stainless Steel, PTFE encapsulated and a variety of other coatings. Bodies are offered in investment cast 316 Stainless Steel for these demanding applications.

Seats are available as standard in PTFE, Nitrile, EPDM, Buna and FKM. All compounds other than FKM are FDA approved.

All Ultraflo valves are tested to 110% of pressure rating for bubble tight shut off before shipment.

All 399/392 Series valves are designed to meet MSS SP67 dimensional standards.

Components

Item	Description	Qty.
1	Split Body	1
2	Seat	1
3	Disc	1
4	Upper Bushing	1
5	Stem Packing	1
6	Lower Bushing	1
7	Body Bolt	2
8	Lock Washer	2

Materials of Construction

Bodies: Cast Iron, Nodular Iron and Investment Cast 316 Stainless Steel in both wafer and lug style split bodies. Aluminum bodies are available in wafer only.

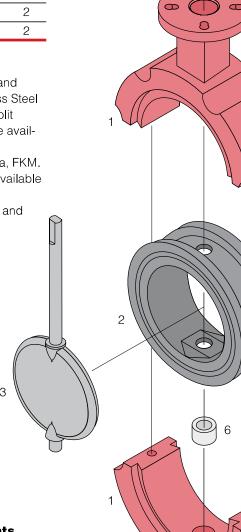
Seats: PTFE, EPDM, Nitrile, Buna, FKM. Nitrile and EPDM seats are available in FDA food grade white.

Disc/Stems: 17-4 Stainless Steel and Investment Cast 316 Stainless Steel, available with satin or high polish finish. PTFE encapsulated and other custom disc coatings are available.

Upper and Lower Bushings:

Thermoplastic Polymer **Stem Packing:** Buna-N **Body Bolts and Lock Washers:**

Zinc Plated Carbon Steel or Stainless Steel



399 Series Cast Iron Wafer Style Body

Temperature Range of Seats

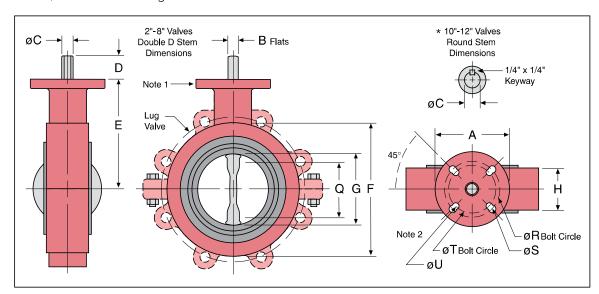
Туре	Minimum	Maximum
EPDM	-40°F	+250°F
Buna	0°F	+212°F
Nitrile	-20°F	+275°F
PTFE	-20°F	+300°F
FKM	0°F	+400°F

399/392 SERIES

Dimensions

Valve ins	e Size mm	A	В	C	D	E	F	G	Н	Q	R	S	Т	U	Lug BC	Data Tap
2	50	4.00	.375	.563	1.250	4.063	4.125	2.00	1.625	1.313	3.250	.438	2.760	.375	4.750	.625-11
3	75	4.00	.375	.563	1.250	5.00	5.375	3.00	1.750	2.563	3.250	.438	2.760	.375	6.00	.625-11
4	100	4.00	.438	.625	1.250	6.00	6.875	4.00	2.00	3.563	3.250	.438	2.760	.375	7.50	.625-11
5	125	4.00	.438	.625	1.250	6.00	7.750	5.00	2.125	4.531	3.250	.438	2.760	.375	8.50	.750-10
6	150	4.00	.500	.750	1.250	6.625	8.750	5.750	2.125	5.438	3.250	.438	2.760	.375	9.50	.750-10
8	200	6.00	.625	.875	1.250	8.313	11.00	7.750	2.50	7.438	5.00	.563	4.020	.438	11.750	.750-10
10	250	6.00	_	1.125*	2.00	9.125	13.375	9.750	2.50	9.531	5.00	.563	4.020	.438	14.250	.875 -9
12	300	6.00	_	1.125*	2.00	10.645	16.125	11.750	3.00	11.50	5.00	.563	4.020	.438	17.00	.875 -9

All 399/392 Series are designed to meet MSS SP67 dimensional standards.



Notes:

- 1, 2"-6" Stainless Steel Valve Bodies have an integral Throttling Top Plate. 8", 10" and 12" SS Valves, and all sizes Cast Iron, Nodular Iron & Aluminum Valves have standard Top Flanges, notch plates are supplied with handle.
- 2. Bolt Circle T and Hole Diameter U meet ISO 5211 standards for Top Flange Drilling: 2"-6" = F78"-12" = F12 Not applicable to Aluminum bodies.



Operator and Actuator Mounting

Ultraflo has designed the 300 Series operator mounting Top Flange to ISO 5211 specifications for direct mounting of manual operators and actuators. Designed to recognized industrial standards, the Double D stem connection provides a secure connection with most actuators eliminating the need for brackets.

Ultraflo offers a wide range of automation products including handles, gear operators, rack and pinion pneumatic actuators, pneumatic cylinder and wrench arm assemblies, electric actuators, pneumatic and electro-pneumatic positioners, solenoids, valve position indicators, proximity and limit switches.

Flange Requirements

The valve O.D. and flange bolt circle must share a common center line. The valve is designed to be placed between ASME/ANSI 125 or 150 lb. flanges.

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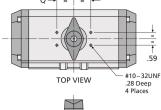
8 Trautman Industrial Drive Ste. Genevieve MO 63670 800.950.1762 Fax 573.883.8882 www.ultraflovalve.com

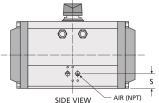
100 SERIES

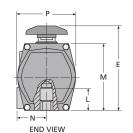
Dimensions

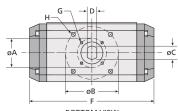
Size	06	08	09	12	13	16*	21	26 [‡]
AIR NPT	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
A ISO "F"†	1.97 F 05	1.97 F 05	_	3.25	3.25	_	4.92 F 12	6.50 F 16
B ISO "F"†	2.76 F 07	2.76 F 07	3.25	5.00	5.00	5.00	6.50 F 16	7.87 x 4.72 Rect.
С	.563	.75	.75	1.125	1.125	1.125	1.97	2.50
D**	.375	.50	.50	.25	.25	.25	.47	.62
Е	4.53	5.43	5.78	7.28	8.09	9.36	11.45	13.35
F	5.58	7.40	8.59	11.90	12.31	15.54	17.80	26.70
G (UNC)	1/4-20 x .32	1/4-20 x .32	3/8-16 x .40	3/8-16 x .40	3/8-16 x .40	_	1/2-13 x .78	M20x2.5 x 30mm
H (UNC)	5/16-18 x .40	5/16-18 x .40		1/2-13 x .69	1/2-13 x .69	1/2-13 x .75	5/8-11 x 1.11	M20x2.5 x 30mm
J	.38	.50	.50	1.12	1.12	1.12	1.12	1.12
L	1.38	1.46	1.46	2.20	2.20	2.20	2.76	4.25
M	3.46	4.27	4.61	5.52	6.32	7.80	10.04	11.89
N	1.72	2.02	2.18	2.53	2.72	3.07	4.25	4.75
Р	3.11	3.83	4.17	4.91	5.44	6.82	8.83	10.75
Q	3.15	3.15	3.15	3.15	3.15	5.12	5.12	5.12
S	.89	.89	.94	1.36	1.36	1.39	1.44	1.50
Т	.79	.79	.79	.79	.79	1.18	1.18	1.18
U	.47	.47	.47	.47	.47	.75	.75	.75

Special Note: Sizes 21 and 26 actuators have endcap travel stops not bi-directional travel stops. Please consult factory for production release date of bi-directional stops for these size 100S actuators.



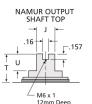






BOTTOM VIEW ISO 5211 ACTUATOR MOUNTING PATTERN

		Т				
STE	M	BOR	E D	ET/	ΑIL	
SIZES	12	13	16	21	г,	26



NAMUR S MOUN	
.47 Typ.→	63 1 63
- .94	→ #10 – 32UNF (M5 x .8 on Size 4 Places

Note: Double Acting and Spring Return actuators have the same overall dimensions.

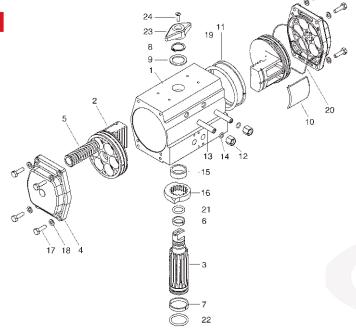
† ISO "F" means mounting flange-drilling pattern.

* Dimensions for Size 16A in table. Size 16B (keyed stem version) has C dimension of 1.38 and D dimension of .39.

‡ Sizes for 100 Series 26A in table. The 26B actuator has a C dimension of 3.00 and D dimension of .75.

** "D" dimension is for key size.

Components Item Qty. **Description** Body 2 Piston 2 3 Pinion 1 4 2 End Cap 5 * 12 max Spring Cartridge **Upper Bearing** 6 1 Lower Bearing 1 8 Retaining Ring Washer 9 1 Bearing Pad 10 2 11 2 Guide Ring 2 12 Stop Nut 13 2 Travel Stop Screw 14 2 Travel Stop O-Ring 15 Acetal Spacer 16 Travel Stop 1 Hex Head Cap Screw 17 8 18 8 Washer Piston O-Ring 19 2 End Cap O-Ring 20 2 21 2 Shaft Top O-Ring 2 22 Shaft Bottom O-Ring 23 Indicator Pointer Indicator Pointer Screw 24



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