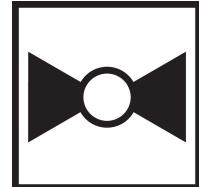


Butterfly Valve with Grooved types

- Disc electroless nickel coated ductile iron
- Bubble tight shut-off
- Resilient seat
- Valve face-to-face dimensions comply with AWWA (c606) & MSS-SP-67
- Completely assembled and tested, ready for installation
- VIC-300 Masterseal is manufactured by the Victaulic Company.



5-year warranty



Type overview

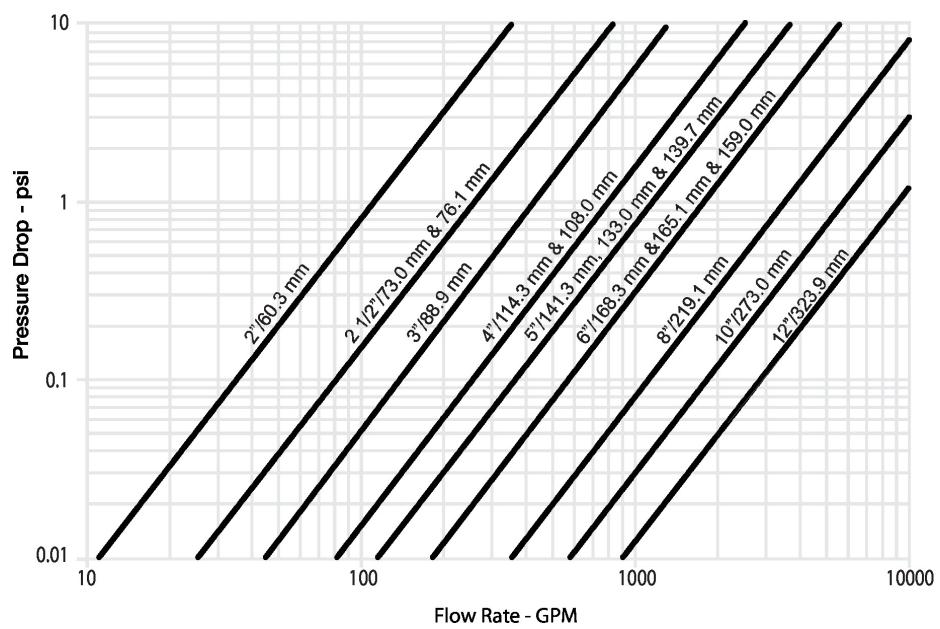
Type	DN
F680VIC	80

Technical data

Functional data		Valve size [mm]	3" [80]
Fluid		chilled or hot water, up to 60% glycol	
Fluid Temp Range (water)		-30...120°C [-22...250°F]	
Body Pressure Rating		ANSI Class Grooved AWWA, 300 psi	
Flow characteristic		modified equal percentage	
Leakage rate		0%	
Pipe connection		Grooved ANSI/AWWA (c606)	
Servicing		maintenance-free	
Flow Pattern		2-way	
Controllable flow range		90° rotation	
Cv		440	
Maximum Velocity		20 FPS	
Materials		Valve body	Ductile cast iron ASTM A536
		Body finish	black alkyd enamel
		Stem	416 stainless steel
		Stem seal	fiberglass with TFE lining
		Seat	EPDM
		Disc	electroless nickel coated ductile iron
Suitable actuators		Non Fail-Safe	GMB(X) GRCB(X) PRB(X)
		Spring	2*AFB(X)
		Electrical fail-safe	GKB(X)

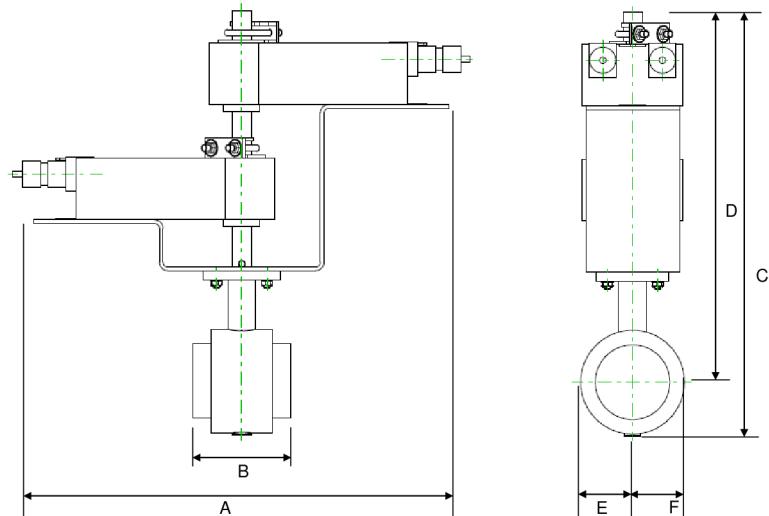
Product features

Flow/Mounting details



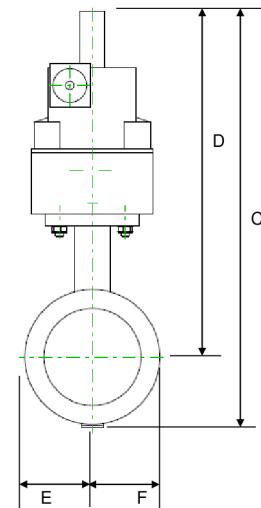
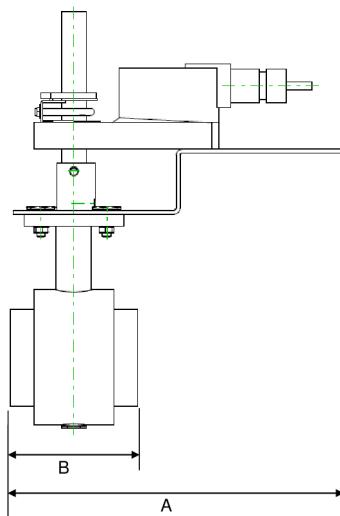
Dimensions

Type	DN	Weight
F680VIC	80	6.9 lb [3.2 kg]



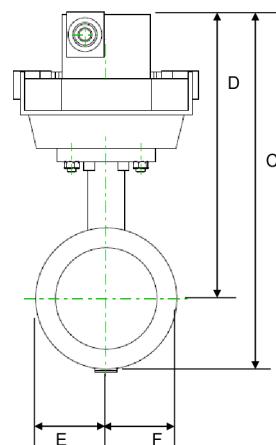
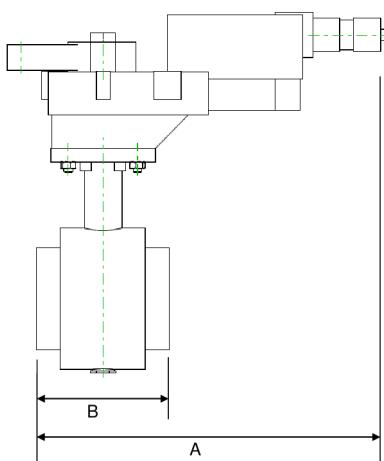
2*AF

A	B	C	D	E	F
17.6" [448]	3.8" [97]	17.8" [451]	14.3" [363]	2.3" [58]	2.3" [58]



GK

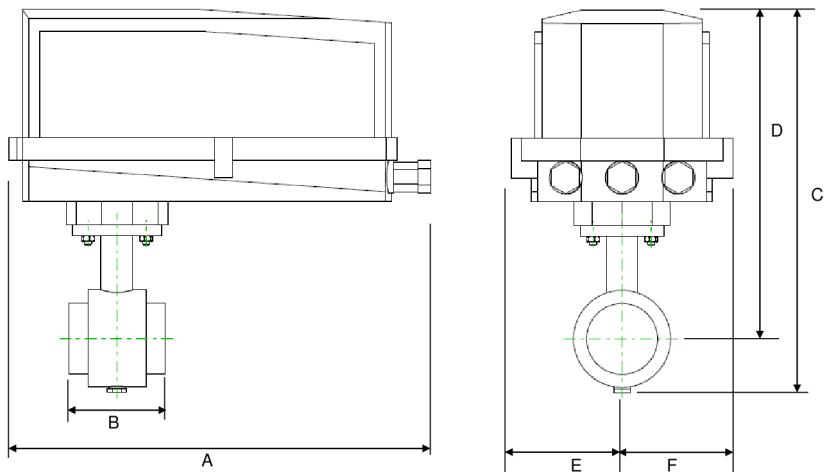
A	B	C	D	E	F
9.9" [251]	3.8" [97]	12.3" [312]	10.5" [267]	2.3" [58]	2.3" [58]



GR

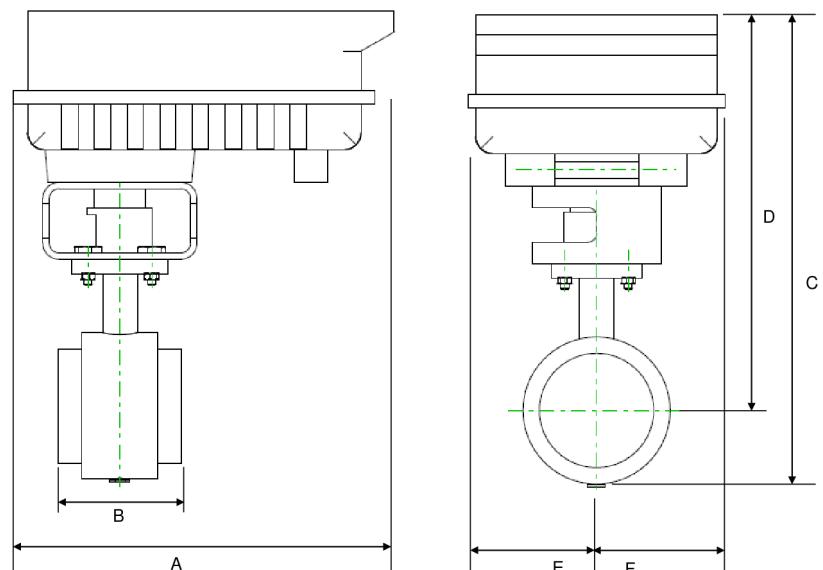
A	B	C	D	E	F
9.9" [251]	3.7" [95]	10.2" [260]	8.1" [206]	2.3" [58]	2.3" [58]

Dimensions



GR N4

A	B	C	D	E	F
14.1" [358]	3.8" [97]	14.0" [356]	11.7" [298]	2.3" [58]	2.3" [58]



F6..VIC_PR

A	B	C	D	E	F
11.7" [298]	3.8" [97]	14.5" [368]	12.1" [307]	8.0" [203]	8.0" [203]

On/Off, Spring return, 24...240 V



5-year warranty



Technical data

Electrical data	Nominal voltage	AC 24...240 V / DC 24...125 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...264 V / DC 21.6...137.5 V
	Power consumption in operation	7 W
	Power consumption in rest position	3.5 W
	Transformer sizing	36 VA
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" NPT conduit connector
	Overload Protection	electronic throughout 0...90° rotation
Functional data	Direction of motion motor	selectable by ccw/cw mounting
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Angle of rotation	95°
	Running Time (Motor)	75 s / 90°
	Running time fail-safe	<20 s
	Noise level, motor	50 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical, 30...65 mm stroke
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Servicing	maintenance-free
Weight	Weight	□
Materials	Housing material	Galvanized steel and plastic housing

Technical data

Footnotes †Rated Impulse Voltage 4kV, Type of action 1.AA, Control Pollution Degree 3.

Electrical installation

**Warning! Live electrical components!**

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.



A Actuators with appliance cables are numbered.



UP Universal Power Supply (UP) models can be supplied with AC 24...240 V, or DC 24...125 V.



⚠ Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches.

Mixed or combined operation of line voltage/safety extra low voltage is not allowed.



Meets cULus requirements without the need of an electrical ground connection.



1 Provide overload protection and disconnect as required.



3 Actuators may also be powered by DC 24 V.



45 Actuators may be powered in parallel. Power consumption must be observed.



48 Parallel wiring required for piggy-back applications.

Wiring diagrams

On/Off

24 to 240 VAC