

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

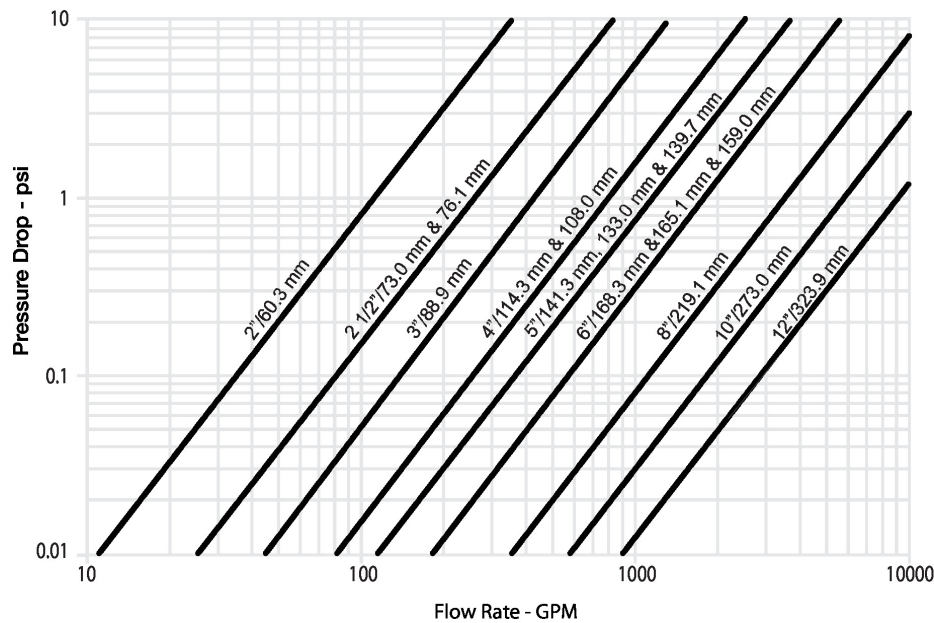
Type	DN
F780VIC	80

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
	Close-off pressure Δps	200 psi
	Flow characteristic	modified linear
	Leakage rate	0%
	Pipe connection	Grooved ANSI/AWWA (c606)
	Servicing	maintenance-free
	Flow Pattern	3-way Mixing/Diverting
	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	2*GMB(X) PRB(X)
	Electrical fail-safe	2*GKB(X) PKRB(X)

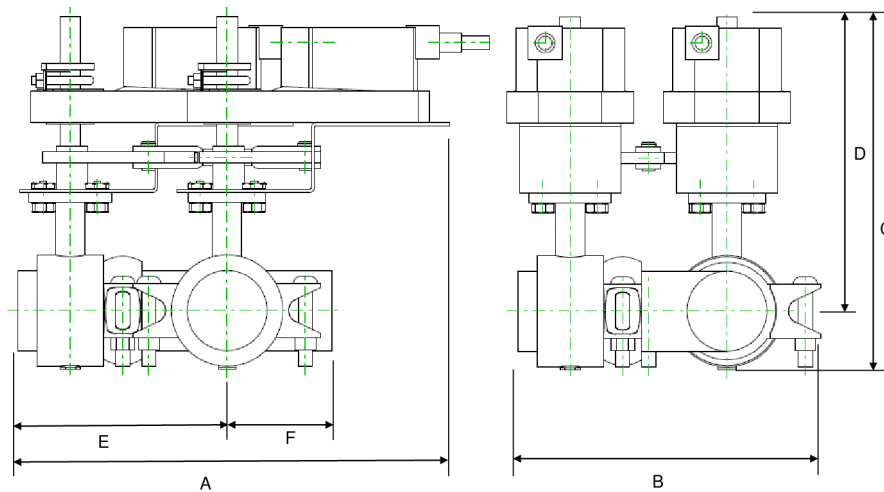
Product features

Flow/Mounting details



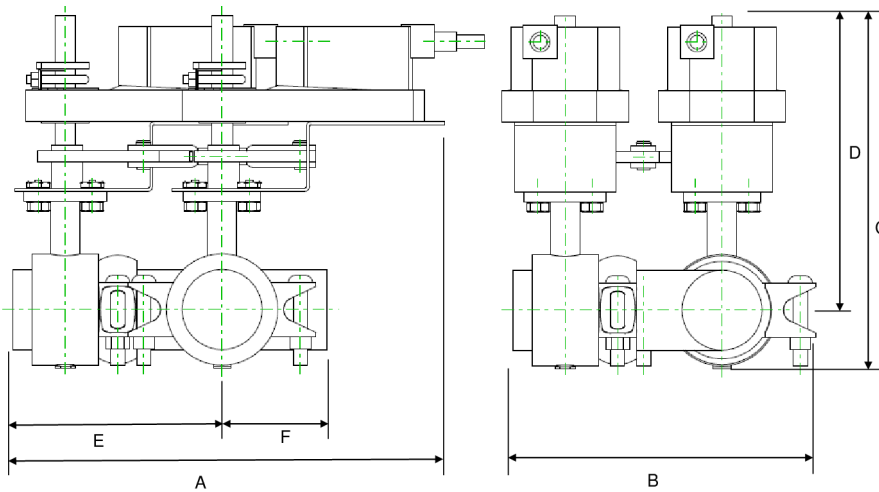
Dimensions

Type	DN	Weight
F780VIC	80	50 lb [23 kg]



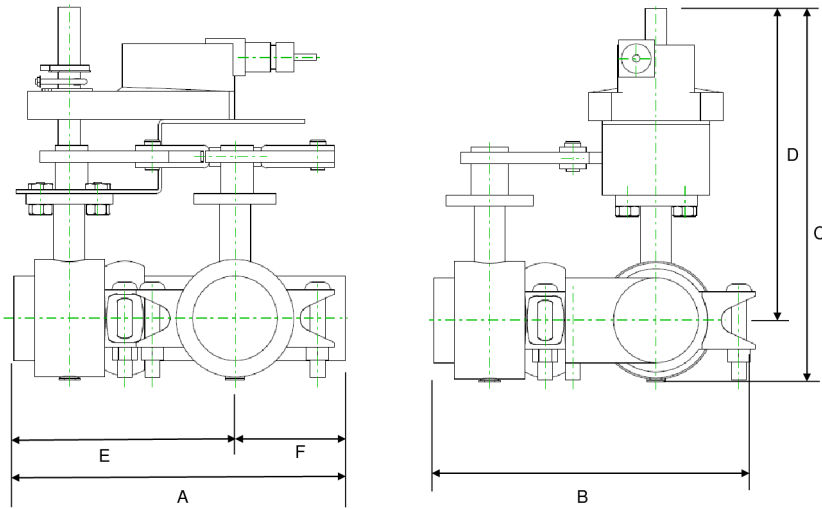
2GK

A	B	C	D	E	F
17.5" [444]	13.9" [353]	13.2" [335]	10.8" [274]	8.0" [203]	4.3" [110]



2GM

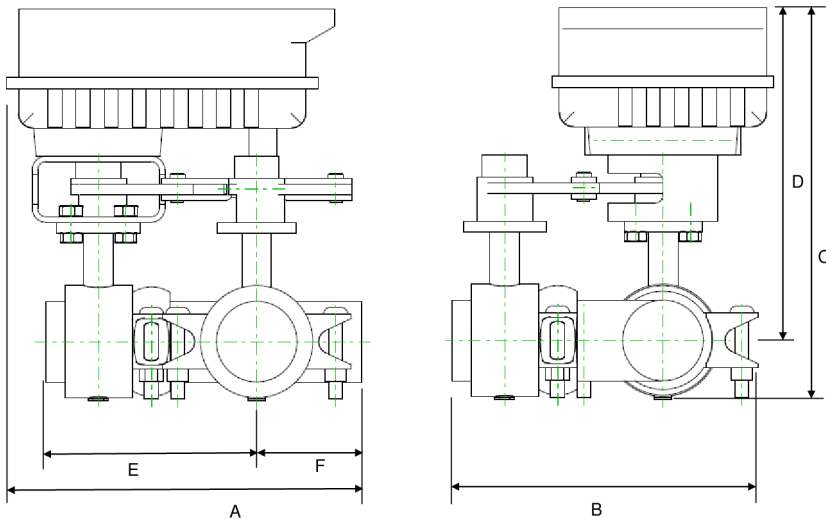
A	B	C	D	E	F
17.5" [444]	13.9" [353]	13.2" [335]	10.9" [276]	8.0" [203]	4.3" [110]



GM

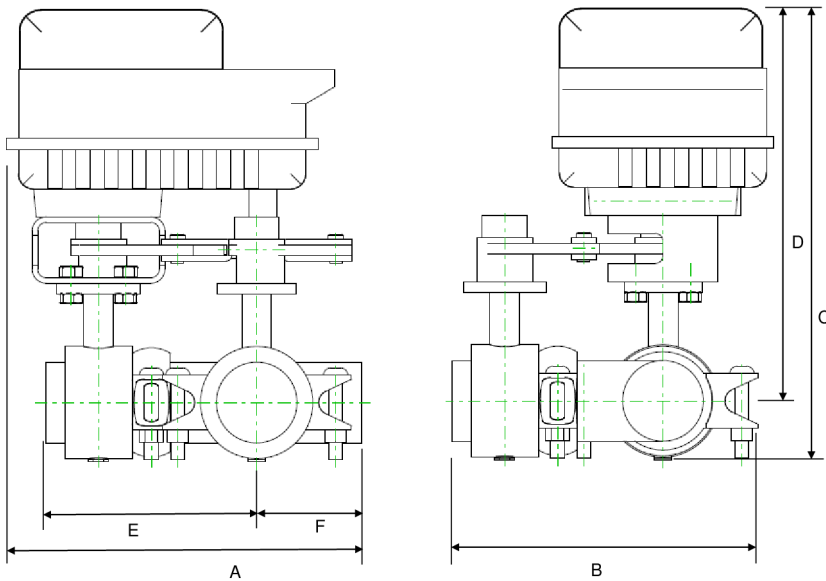
A	B	C	D	E	F
11.3" [286]	11.7" [298]	12.6" [320]	10.5" [267]	8.0" [203]	4.3" [110]

Dimensions



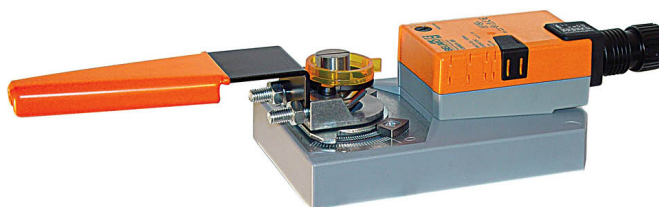
PRB(X)

A	B	C	D	E	F
13.0" [330]	13.9" [353]	14.0" [356]	12.1" [307]	8.0" [203]	4.3" [110]



PK

A	C	D	E
13.0" [330]	16.5" [419]	14.4" [366]	8.0" [203]



5-year warranty



Technical data

Electrical data	Nominal voltage	AC 100...240 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 85...265 V
	Power consumption in operation	6 W
	Power consumption in rest position	2 W
	Electrical Connection	1/2" NPT conduit connector, screw terminals
	Overload Protection	electronic throughout 0...95° rotation
Functional data	Input impedance	500 Ω
	Position feedback U	2...10 V
	Position feedback U note	Max. 0.5 mA
	Direction of motion motor	selectable with switch 0/1
	Manual override	external push button
	Angle of rotation	90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	35 s / 90°
	Running time motor note	constant, independent of load
	Noise level, motor	60 dB(A)
	Position indication	Mechanical, pluggable
Safety data	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 and 2014/35/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	3.4 lb [1.5 kg]
Materials	Housing material	Galvanized steel and plastic housing

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

Electrical installation



-  Provide overload protection and disconnect as required.
-  Actuators may be connected in parallel. Power consumption and input impedance must be observed.
-  Only connect common to negative (-) leg of control circuits.
-  Actuators are provided with a numbered screw terminal strip instead of a cable.
-  Meets cULus requirements without the need of an electrical ground connection.
-  **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.

Wiring diagrams

2...10 V / 4...20 mA Control AC 100...240 V

