

## **Technical data sheet**

# F665VIC

#### 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.







#### Type overview

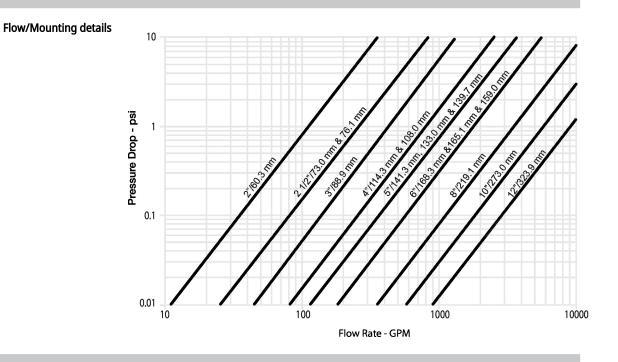
Туре	DN
F665VIC	65

#### **Technical data**

Functional data	Valve size [mm]	2.5" [65]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	-30120°C [-22250°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	260
	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	AMB(X) GRCB(X) GMB(X)
	Spring	AFB(X)

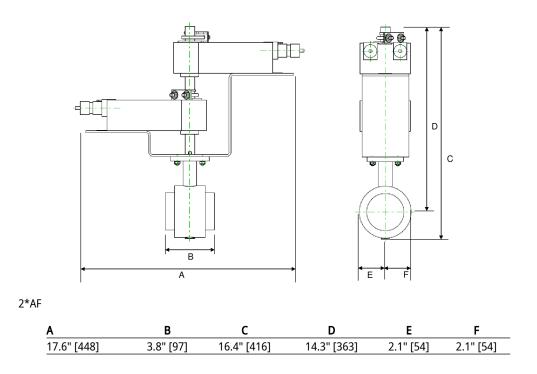


#### **Product features**

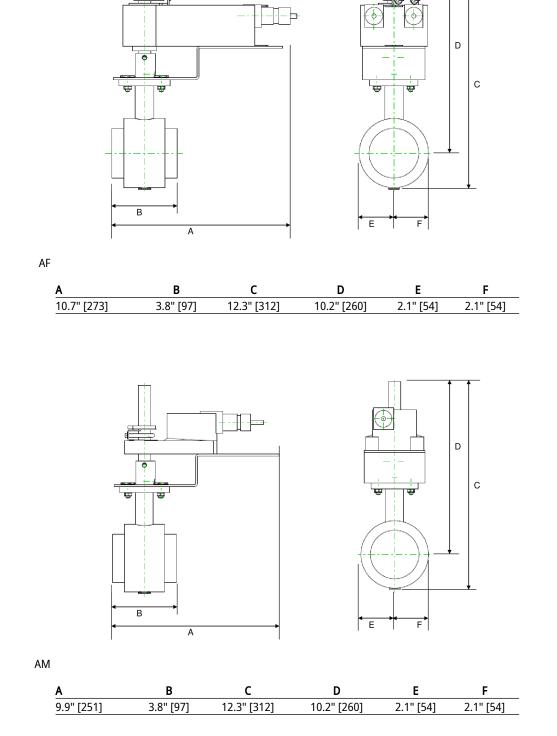


# Dimensions

Туре	DN	Weight	
F665VIC	65	6.4 lb [2.9 kg]	

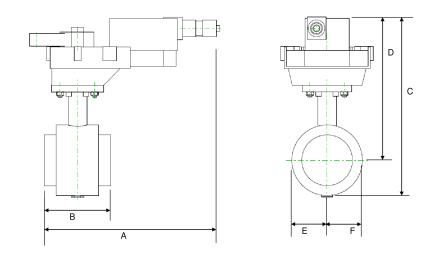




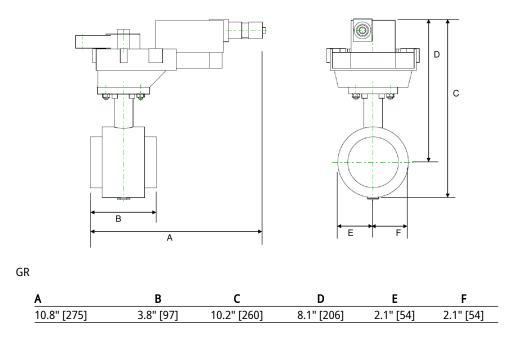


GM





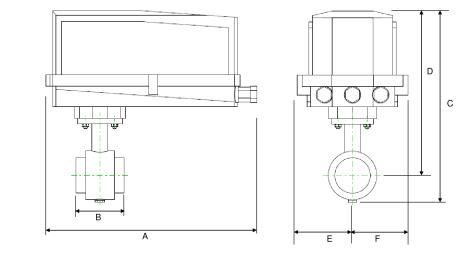
A	В	с	D	E	F
9.9" [251]	3.8" [97]	12.3" [312]	10.2" [260]	2.1" [54]	2.1" [54]







F665VIC





Α	В	С	D	E	F
14.1" [358]	3.8" [97]	13.6" [345]	11.5" [292]	2.1" [54]	2.1" [54]



### MFT/programmable, Spring return, 24 V





### **Technical data**

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	7.5 W
	Power consumption in rest position	3 W
	Transformer sizing	10 VA
	Electrical Connection	18 GA appliance cable, 1 m, 3 m, or 5 m with 1/2" NPT conduit connector, degree of protection NEMA 2 / IP54
	Overload Protection	electronic throughout 095° rotation
Functional data	Torque motor	20 Nm
	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Operating range Y variable	Start point 0.530 V End point 2.532 V
	Operating modes optional	variable (VDC, PWM, on/off, floating point)
	Position feedback U	210 V
	Position feedback U note	Max. 0.5 mA
	Position feedback U variable	VDC variable
	Direction of motion motor	selectable with switch 0/1
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Angle of rotation	95°
	Angle of rotation note	adjustable with mechanical end stop, 3595°
	Running Time (Motor)	150 s / 90°
	Running time motor variable	70220 s
	Running time fail-safe	<20 s
	Override control	MIN (minimum position) = 0% MID (intermediate position) = 50% MAX (maximum position) = 100%
	Noise level, motor	40 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2



	Safety data	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	-22122°F [-3050°C]
		Storage temperature	-40176°F [-4080°C]
		Servicing	maintenance-free
	Weight	Weight	4.6 lb [2.1 kg]
	Materials	Housing material	Galvanized steel and plastic housing
	Footnotes	*Variable when configured with M	FT options.
Accessories			
	Electrical accessories	Description	Туре
		Service tool, with ZIP-USB function communicative Belimo actuators, devices	, for programmable and ZTH US VAV controller and HVAC performance
Electrical installation			
		o work with live electrical compone	<b>:!</b> g and troubleshooting of this product, it may be necessar nts. Have a qualified licensed electrician or other individu indling live electrical components perform these tasks.
	•	Failure to follow all electrical safety could result in death or serious inju	precautions when exposed to live electrical components y. the need of an electrical ground connection.

Actuators may be controlled in parallel. Current draw and input impedance must be observed. Master-Slave wiring required for piggy-back applications. Feedback from Master to control input(s) of Slave(s).



**Technical data sheet** 

AFX24-MFT-X1

#### **Electrical installation**

