

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

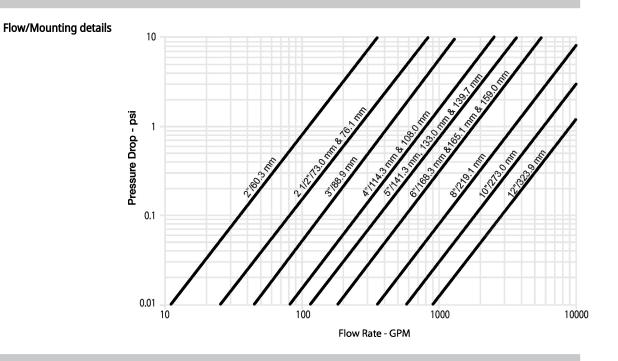
Туре	DN
F6125VIC	125

Technical data

Functional data	Valve size [mm]	5" [125]
	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	1200
	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	DRB(X) PKRB(X)
	Electrical fail-safe	PKRB(X)

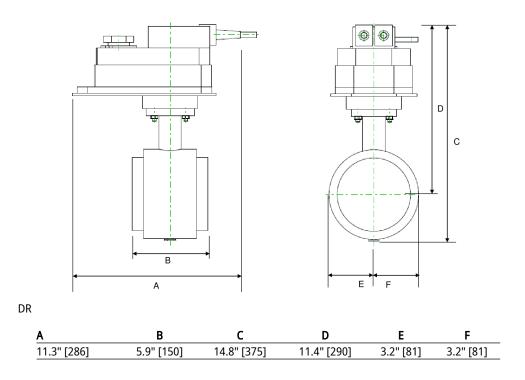


Product features

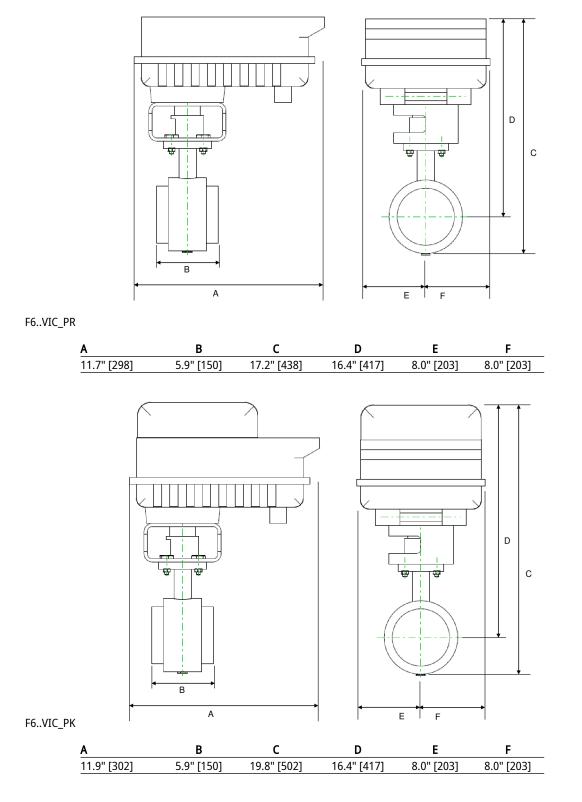


Dimensions

Туре	DN	Weight
F6125VIC	125	16 lb [7.5 kg]









MFT/programmable, Non fail-safe, 24...240 V



Technical data sheet







Technical data

Electrical data	Nominal voltage	AC 24240 V / DC 24125 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2264 V / DC 19.2137.5 V
	Power consumption in operation	20 W
	Power consumption in rest position	7 W
	Transformer sizing	with 24 V 20 VA / with 240 V 52 VA
	Auxiliary switch	2x SPDT, 1 mA3 A (0.5 A inductive), DC 5 VAC 250 V (II, reinforced insulation), 1x 10° / 1x 090° (default setting 85°)
	Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), DC 5 VAC 250 V (II, reinforced insulation)
	Electrical Connection	Terminal blocks, (PE) Ground-Screw
	Overload Protection	electronic thoughout 090° rotation
Data bus communication	Communicative control	BACnet MS/TP Modbus RTU MP-Bus
Functional data	Operating range Y	210 V
	Operating range Y note	420 mA
	Input impedance	100 kΩ for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for On/Off
	Operating range Y variable	Start point 0.530 V End point 2.532 V
	Operating modes optional	variable (VDC, 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	reversible with app
	Direction of motion motor	reversible with app
	Direction of motion motor Manual override Angle of rotation Running Time (Motor)	reversible with app 7 mm hex crank, supplied
	Direction of motion motor Manual override Angle of rotation Running Time (Motor) Running time motor variable	reversible with app 7 mm hex crank, supplied 90°
	Direction of motion motor Manual override Angle of rotation Running Time (Motor)	reversible with app 7 mm hex crank, supplied 90° 35 s / 90°



fety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP66/67
	Degree of protection NEMA/UL	NEMA 4X
	Enclosure	UL Enclosure Type 4X
	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
	Ambient humidity	Max. 100% RH
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	13 lb [6.1 kg]
/laterials	Housing material	Die cast aluminium and plastic casing

Safety notes

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For maintenance work, the correct valve position must be set via the control signal. Additionally, the actuator must be disconnected from the power source. The hand crank and manual override shall not be used as a safety measure to maintain the valve position.

Product features	
Application	PR Series valve actuators are designed with an integrated linkage and visual position indicators. For outdoor applications, the installed valve must be mounted with the actuator at or above horizontal. For indoor applications the actuator can be in any location including directly under the valve.
Operation	The PR series actuator provides 90° of rotation and a visual indicator shows the position of the valve. The PR Series actuator uses a low power consumption brushless DC motor and is electronically protected against overload. A universal power supply is furnished to connect supply voltage in the range of AC 24240 V and DC 24125 V. Included is a smart heater with thermostat to eliminate condensation. Two auxiliary switches are provided; one set at 10° open and the other is field adjustable. Running time is field adjustable from 30120 seconds by using the Near Field Communication (NFC) app and a smart phone.
	[†] Use 60°C/75°C copper wire size range 1228 AWG, stranded or solid. Use flexible metal conduit. Push the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 4000 V. Type of action 1. Control pollution degree 3.
Accessories	

Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to Modbus RTU	UK24MOD
	Gateway MP to LonWorks	UK24LON
lectrical accessories	Description	Туре
	Service tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US



01DT-5ET



Accessories

Mechan	ical accessories	Description	Туре
		Hand crank for PR, PKR, PM	ZG-HND PR
	Tools	Description	Туре
		Connecting cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection Service tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZK4-GEN ZTH US
	Sensors	Description	Туре
		Duct/Immersion sensor Temperature 6" [150 mm] x 0.24" [6 mm] Pt1000	01DT-5BN
		Duct/Immersion sensor Temperature 2" [50 mm] x 0.24" [6 mm] Pt1000	01DT-5BH
		Duct/Immersion sensor Temperature 4" [100 mm] x 0.24" [6 mm] Pt1000	01DT-5BL
		Duct/Immersion sensor Temperature 8" [200 mm] x 0.24" [6 mm] Pt1000	01DT-5BP
		Duct/Immersion sensor Temperature 18" [450 mm] x 0.24" [6 mm] Pt1000	01DT-5BT
		Duct/Immersion sensor Temperature 2" [50 mm] x 0.24" [6 mm] Ni1000 (JCI)	01DT-5EH
		Duct/Immersion sensor Temperature 4" [100 mm] x 0.24" [6 mm] Ni1000 (JCI)	01DT-5EL
		Duct/Immersion sensor Temperature 6" [150 mm] x 0.24" [6 mm] Ni1000 (JCI)	01DT-5EN
		Duct/Immersion sensor Temperature 8" [200 mm] x 0.24" [6 mm] Ni1000 (JCI)	01DT-5EP
		Duct/Immersion sensor Temperature 12" [300 mm] x 0.24" [6 mm] Pt1000	01DT-5BR
		Duct/Immersion sensor Temperature 12" [300 mm] x 0.24" [6 mm] Ni1000 (JCI)	01DT-5ER

Electrical installation

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

(UP) Universal Power Supply (UP) models can be supplied with 24...240 V.

Duct/Immersion sensor Temperature 18" [450 mm] x 0.24" [6 mm]

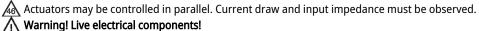
Disconnect power.

Ni1000 (JCI)

Provide overload protection and disconnect as required.

A Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

\Lambda Only connect common to negative (-) leg of control circuits.

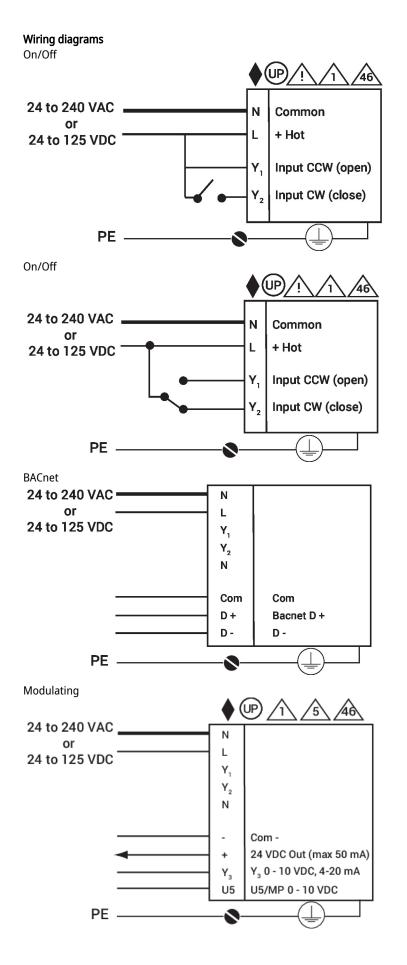


During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a gualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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



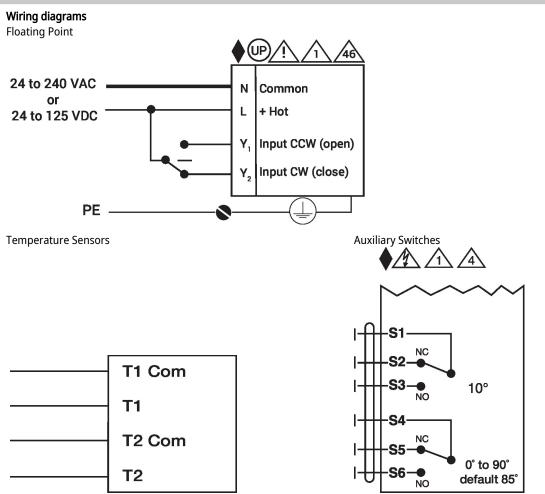








Electrical installation





Dimensions

