

Butterfly Valve with Lug types

- Disc 304 stainless steel
- Bubble tight shut-off
- Resilient seat
- Valve face-to-face dimensions comply with
- API 609 & MSS-SP-67

• Completely assembled and tested, ready for installation



Technical data sheet



F6300L

Type overview

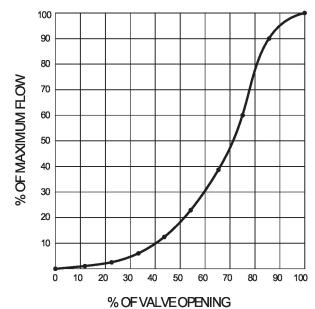
Туре	DN
F6300L	300

Technical data

Functional data	Valve size [mm]	12" [300]		
	Fluid	chilled or hot water, up to 60% glycol		
	Fluid Temp Range (water)	-22250°F [-30120°C]		
	Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP		
	Close-off pressure Δps	200 psi		
	Flow characteristic	modified equal percentage		
	Servicing	maintenance-free		
	Flow Pattern	2-way		
	Leakage rate	0%		
	Controllable flow range	90° rotation		
	Cv	8250		
	Maximum Velocity	12 FPS		
	Lug threads	7/8-9 UNC		
Materials	Valve body	Ductile cast iron ASTM A536		
	Body finish	polyester powder coated		
	Stem	420 stainless steel		
	Seat	EPDM		
	Pipe connection	for use with ANSI class 125/150 flanges		
	Bearing	Steel, PTFE, Bronze		
	Disc	304 stainless steel		
	Gear operator materials	Gears - hardened steel		
Suitable actuators	Non-Spring	PRB(X)		
	Electrical fail-safe	PKRB(X)		

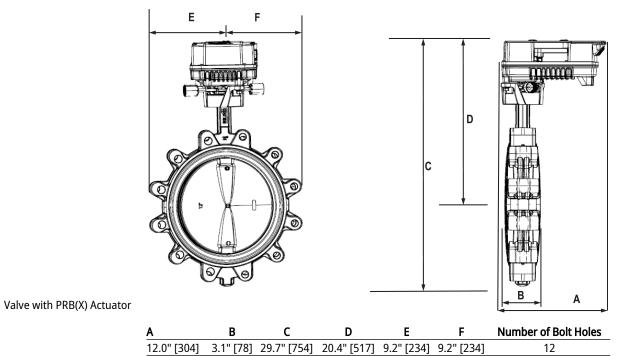


Flow/Mounting details

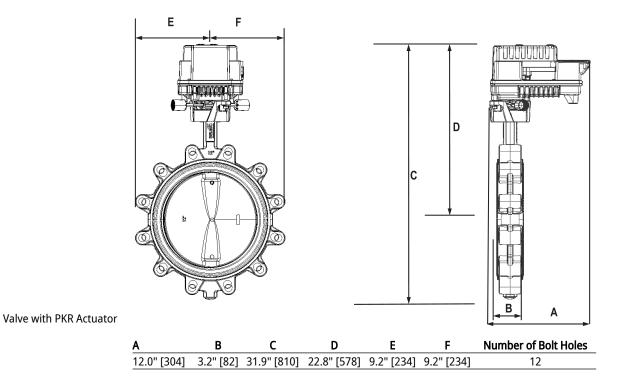


Dimensions

Туре	DN	Weight	
F6300L	300	91 lb [41 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 k Ω 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		
	Manual override	7 mm hex crank, supplied		
	Angle of rotation	90°		
	Running Time (Motor)	35 s / 90°		
	Running time motor variable	30120 s		
	Noise level, motor	68 dB(A)		
	Position indication	integral pointer		



Safety 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 [6.0 kg]
Materials	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			
Ар	plication	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 or above horizontal. For indoor applications the actuator can be in any location including directly under the valve.	at
Q	peration	The PR series actuator provides 90° of rotation and a visual indicator shows the position of t 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 wit 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 second by using the Near Field Communication (NFC) app and a smart phone.	th
		[†] 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			
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Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to Modbus RTU	UK24MOD
	Gateway MP to LonWorks	UK24LON
Electrical accessories	Description	Туре
	Service tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US



01DT-5ER

01DT-5ET



Accessories			
	Mechanical 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	ZK4-GEN
		and supply connection Service tool, with ZIP-USB function, for programmable and	ZTH US
		communicative Belimo actuators, VAV controller and HVAC performance	2111.03
		devices	
	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]	01DT-5BR

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 12" [300 mm] x 0.24" [6 mm]

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

Disconnect power.

Pt1000

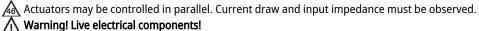
Ni1000 (ICI)

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.

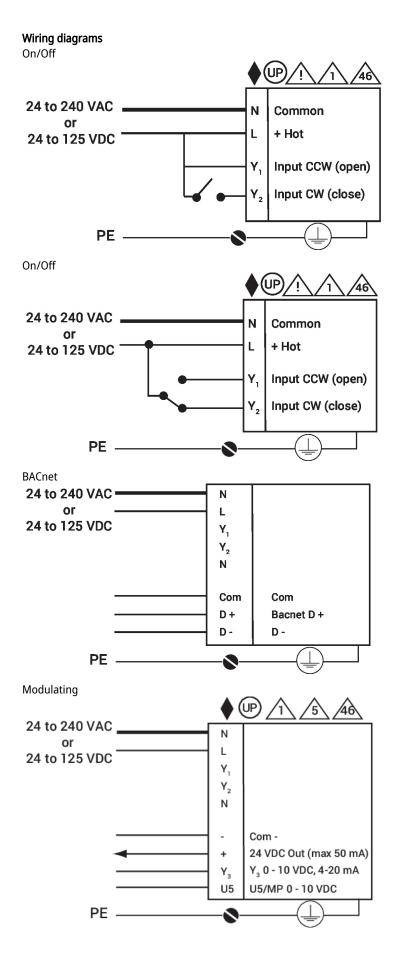


During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a gualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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



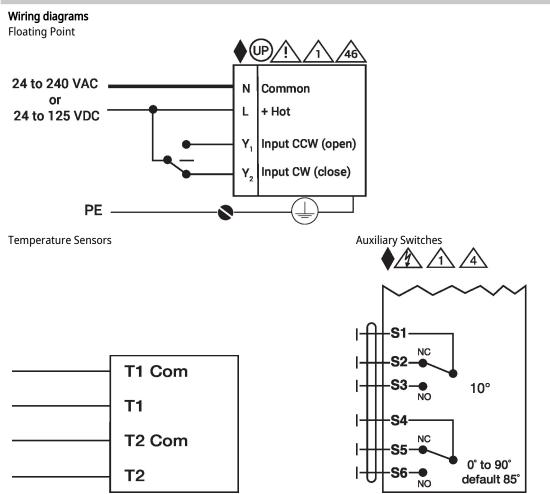








Electrical installation





Dimensions

