

Technical data sheet

F7200L



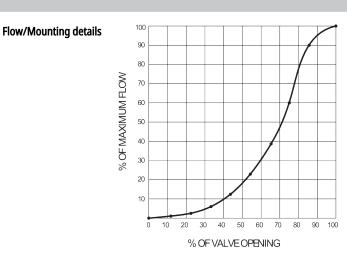




Technical data

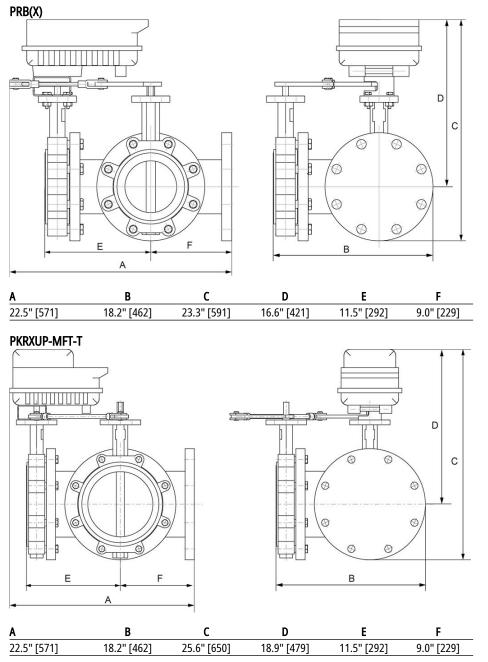
Functional data	Valve Size	8" [200]	
	Fluid	chilled or hot water, up to 60% glycol	
	Fluid Temp Range (water)	-4250°F [-20120°C]	
	Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP	
	Close-off pressure ∆ps	200 psi	
	Servicing	maintenance-free	
	Rangeability Sv	10:1	
	Flow Pattern	3-way Mixing/Diverting	
	Leakage rate	0%	
	Controllable flow range	90° rotation	
	Cv	3136	
	ANSI Class	Consistent with 125	
	Body pressure rating note	232 psi CWP	
	Maximum Velocity	12 FPS	
	Lug threads	3/4-10 UNC	
Materials	Body finish	polyester powder coated	
	Seat	EPDM	
	End fitting	for use with ANSI class 125/150 flanges	
	Bearing	Steel, PTFE, Bronze	
	Disc	304 stainless steel	
	Gear operator materials	Gears - hardened steel	
uitable actuators	Non-Spring	PRB(X)	
	Electronic fail-safe	PKRB(X)	

Product features





Dimensional drawings





Modulating, Non Fail-Safe, 24...240 V, NEMA 4X with BACnet

PRBUP-MFT-T-200





Technical data

Electrical data	Nominal voltage	AC 24240 V / DC 24125 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	20 W	
	Power consumption in rest position	6 W	
	Transformer sizing	20 VA @ AC/DC 24 V (class 2 power source), 23 VA @ AC/DC 120 V, 52 VA @ AC 230 V	
	Auxiliary switch	2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 090°	
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V	
	Electrical Connection	Terminal blocks, (PE) Ground-Screw	
	Overload Protection	electronic thoughout 090° rotation	
Functional data	Communicative control	BACnet MS/TP Modbus RTU MP-Bus	
	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	
	Options positioning signal	variable (VDC, on/off, floating point)	
	Position feedback U	210 V	
	Position Feedback	210 V, Max. 0.5 mA, VDC variable	
	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)	default 35 s, variable 30120 s	
	Running time motor variable	30120 s	
	Noise level, motor	68 dB(A)	
	Position indication	top mounted domed indicator	
	Passive Sensor Inputs	2x (Pt1000, Ni1000, NTC10k2)	
Safety data	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 temperature	-22122°F [-3050°C]	

BELI	MO

BELIMO	Technical data sheet	PRBUP-MFT-T-200	
	Storage temperature	-40176°F [-4080°C]	
	Ambient humidity	max. 95% r.H., non-condensing	
	Servicing	maintenance-free	
Weig	nt Weight	13 lb [5.8 kg]	
Materia	ls Housing material	Die cast aluminium and plastic casing	
Product features			
Applicatio	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.		
Operatio	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			
Gateway	s Description	Туре	
	Gateway MP to BACnet MS/TP Gateway MP to LonWorks Gateway MP to Modbus RTU	UK24BAC UK24LON UK24MOD	
Service too	s Description	Туре	
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3- connection		
	Service Tool, with ZIP-USB function, for configurable a actuators / VAV controller and HVAC performance dev		
Electrical installation			

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

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

A Disconnect power.

 \bigwedge Provide overload protection and disconnect as required.

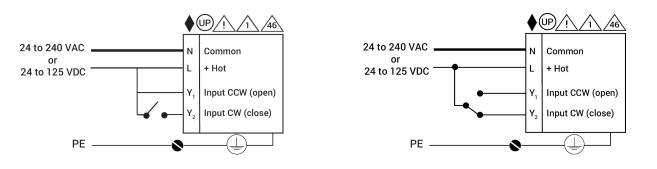
4 Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

 $\sqrt{5}$ Only connect common to negative (-) leg of control circuits.

Actuators may be controlled in parallel. Current draw and input impedance must be observed.

/ 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.

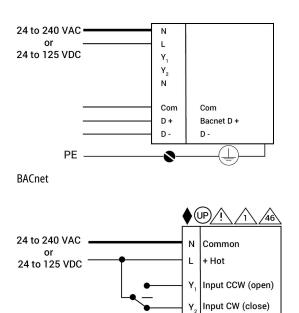




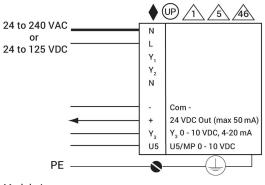
On/Off

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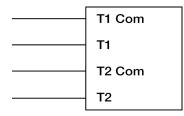
On/Off







Modulating



Temperature Sensors

PE

Floating Point

Auxiliary Switches