

Technical data sheet

F7200L



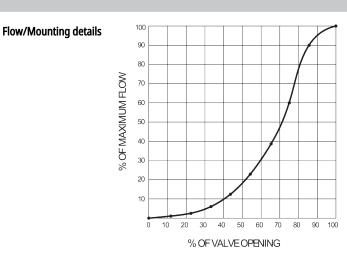




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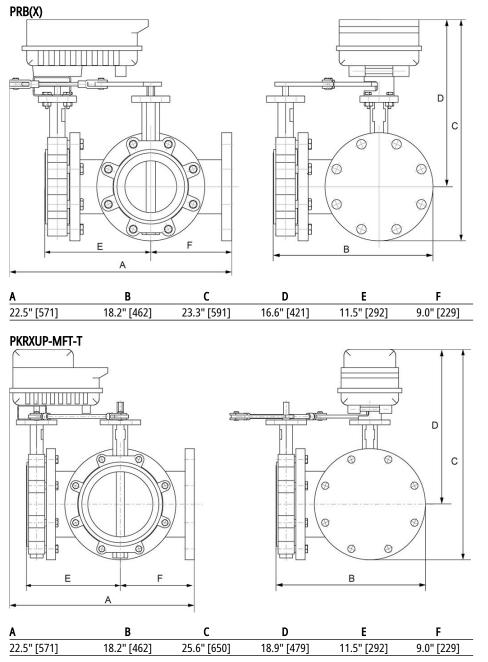
Functional data	Valve Size	8" [200]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	-4250°F [-20120°C]
	Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP
	Close-off pressure ∆ps	200 psi
	Servicing	maintenance-free
	Rangeability Sv	10:1
	Flow Pattern	3-way Mixing/Diverting
	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
itable actuators	Non-Spring	PRB(X)
	Electronic fail-safe	PKRB(X)

Product features





Dimensional drawings





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

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PKRXUP-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	52 W
	Power consumption in rest position	9 W
	Transformer sizing	55 VA @ AC/DC 24 V (class 2 power source), 43 VA @ AC/DC 120 V, 68 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
	Setting fail-safe position	adjustable with Belimo Assistant App 0100% (default 0%)
	Bridging time	programmable 010 s (2 s default) delay before fail- safe activates
	Pre-charging time	520 s
	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
	Running time fail-safe	<30 s
	Noise level, motor	68 dB(A)
	Noise level, fail-safe	62 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/EL
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Ambient humidity	max. 95% r.H., non-condensing
	Servicing	maintenance-free
Weight	Weight	14 lb [6.4 kg]
Materials	Housing material	Die cast aluminium and plastic casing
Product features		
Default/Configuration	manufacturing. If required, different para	tions of the PKRMFT actuator are assigned during imeters of the actuator can be ordered. These parameters are re-set, the handheld ZTH US or using the Belimo App on a smart NFC) programming.
Application	outdoor applications, the installed valve n	th an integrated linkage and visual position indicators. For nust be mounted with the actuator at or above horizontal. For any location including directly under the valve.
Operation	PR Series actuator uses a low power const against overload. A universal power supp 24240 V and DC 24125 V. Included is a auxiliary switches are provided; one set at adjustable from 30120 seconds by using	ation and a visual indicator shows the position of the valve. The umption brushless DC motor and is electronically protected ly is furnished to connect supply voltage in the range of AC smart heater with thermostat to eliminate condensation. Two t 10° open and the other is field adjustable. Running time is field g the Near Field Communication (NFC) app and a smart phone. 228 AWG, stranded or solid. Use flexible metal conduit. Push
	connector. Jacket the actuators input wiri	ctuator's cable to butt against the enclosure. Screw in conduit ng with listed flexible conduit. Properly terminate the conduit in ltage 4000 V. Type of action 1. Control pollution degree 3.

	Gateways Service tools	Description	
		Gateway MP to BACnet MS/TP	UK24BAC
		Gateway MP to LonWorks	UK24LON
		Gateway MP to Modbus RTU	UK24MOD
		Description	
		Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN
		Service Tool, with ZIP-USB function, for configurable and communicative Belimo actuators / VAV controller and HVAC performance devices	ZTH US
Electrical installation			

UP Universal Power Supply (UP) models can be supplied with 24 V up to 240 V. Disconnect power. Provide overload protection and disconnect as required.



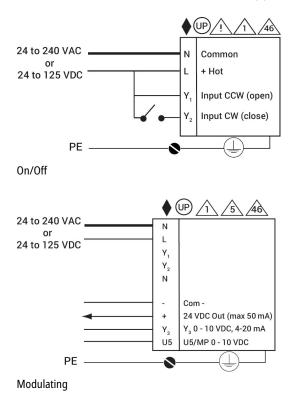
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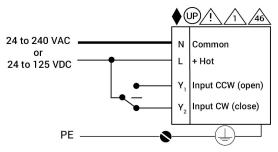
A Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc. $\sqrt{5}$ Only connect common to negative (-) leg of control circuits.

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

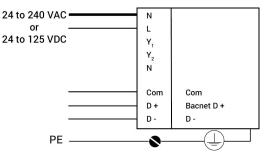
Warning! Live Electrical Components! Μ

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.





Floating Point



BACnet

NC

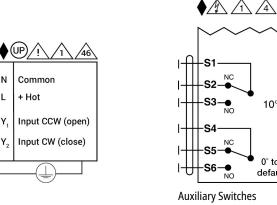
-0

-O

10°

0° to 90°

default 85°



T1 Com T1 T2 Com T2

Temperature Sensors

24 to 240 VAC

or 24 to 125 VDC

On/Off

PE