# F6200LU Technical Data Sheet





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### Application

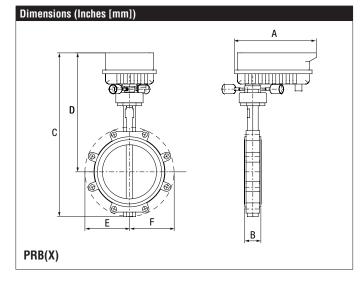
Valve is designed for use in ANSI flanged piping systems to meet the needs of bi-directional high flow HVAC hydronic applications with 0% leakage. Typical applications include cooling tower bypass, primary flow change-over systems, and large air-handler coil control. Valve face-to-face dimensions comply with API 609 & MSS-SP-67, Completely assembled and tested, ready for installation.

### **Jobsite Note**

warranty

Valve assembly should be stored in a weather protected area prior to installation. Reference the butterfly valve installation instruction for additional information.

Flow/Cv								
Cv 10°	Cv 20°	Cv 30°	Cv 40°	Cv 50°	Cv 60°	Cv 70°	Cv 80°	Cv 90°
2	89	188	408	727	1202	1903	2854	3136
Suitable Actuators								
Non-Spring								
F6200L	J	PRB(X)						



A	В	C	D	E	F
12.0" [304]	2.4" [60]	23.9" [607]	17.4" [441]	6.5"	[165]

Technical Data		
Fluid	chilled or hot water, up to 60% glycol	
Flow characteristic	modified equal percentage	
Controllable flow range	90° rotation	
Valve Size [mm]	8" [200]	
Pipe connection	for use with ANSI class 125/150 flanges	
Housing	Ductile cast iron ASTM A536	
Body finish	polyester powder coated	
Stem	420 stainless steel	
Seat	EPDM	
Bearing	Steel, PTFE, Bronze	
Disc	304 stainless steel	
Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP	
ANSI Class	Consistent with 125	
Number of Bolt Holes	8	
Lug threads	3/4-10 UNC	
Close-off pressure $\Delta ps$	50 psi	
Rangeability Sv	10:1	
Maximum Velocity	12 FPS	
Cv	3136	
Weight	37 lb [17 kg]	
Fluid Temp Range (water)	-22250°F [-30120°C]	
Leakage rate	0%	
Servicing	maintenance-free	
Miller installing in vistavilie mining austance van vistavilie 44 andre flager minutes. 744 flager oot		

When installing in victaulic piping systems, use victaulic 41 series flange nipples. 741 flanges not recommended without the use of adapter rings. L-Series butterfly valves are designed to be installed between ANSI 125/150 flat-faced, raised face, slip-on or weld-neck flanges. Do NOT use flange gaskets on L-Series butterfly valves.

### Flow/Mounting Details



## PRBUP-MFT-T-200 Technical Data Sheet Modulating, Non Fail-Safe, 24...240 V, NEMA 4X with BACnet





Technical Data	
Power Supply	24240 VAC, -20% / +10%, 50/60 Hz,
	24125 VDC, -20% / +10%
Power consumption in operation	20 W
Power consumption in rest	6 W
position	
Transformer sizing	20 VA @ AC/DC 24 V (class 2 power
	source), 23 VA @ AC/DC 120 V, 52 VA @ AC 230 V
Electrical Connection	Terminal blocks, (PE) Ground-Screw
Overload Protection	electronic thoughout 090° rotation
Operating Range	210 V (default), 420 mA, variable (VDC,
	on/off, floating point)
Operating range Y variable	Start point 0.530 V
Les I Les esde est	End point 2.532 V
Input Impedance	100 kΩ for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for 0n/Off
Position Feedback	210 V, Max. 0.5 mA, VDC variable
Angle of rotation	90°
Torque motor	
Direction of motion motor	1400 in-lb [160 Nm]
Position indication	reversible with app
	top mounted domed indicator
Manual override	7 mm hex crank, supplied
Running Time (Motor)	default 35 s, variable 30120 s
Ambient humidity	max. 95% r.H., non-condensing
Ambient temperature	-22122°F [-3050°C]
Storage temperature	-40176°F [-4080°C]
Degree of Protection	IP66/67, NEMA 4X, UL Enclosure Type 4X
Housing material	Die cast aluminium and plastic casing
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA
	E60730-1:02, CE acc. to 2014/30/EU and
Noise level motor	2014/35/EU
Noise level, motor	68 dB(A)
Servicing	maintenance-free
Quality Standard	ISO 9001
Weight	13 lb [5.8 kg]
Auxiliary switch	2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable
Communication	BACnet MS/TP
Passive Sensor Inputs	2x (Pt1000, Ni1000, NTC10k2)

#### 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 24...240 V and DC 24...125 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 30...120 seconds by using the Near Field Communication (NFC) app and a smart phone.

†Use 60°C/75°C copper wire size range 12...28 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.



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

UP Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 240 VDC.

Disconnect power.

Provide overload protection and disconnect as required.

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

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.

