F6200L, 8", 2-Way Butterfly Valve Resilient Seat, 304 Stainless Steel Disc

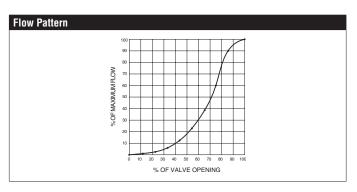






Technical Data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	modified equal percentage
Controllable Flow Range	90° rotation
Size [mm]	8" [200]
End Fitting	For use with ANSI Class 125/150 flanges
Body	ductile iron ASTM A536
Body Finish	polyester powder coated
Seat	EPDM
Shaft	420 stainless steel
Bushings	steel, PTFE (typical)
Disc	304 stainless steel
Body Pressure Rating [psi]	232
Number of Bolt Holes	8
Lug Threads	3/4-10 UNC
Media Temperature Range (Water)	-22°F to 250°F [-30°C to 120°C]
Close-Off Pressure	200 psi
Rangeability	10:1
Maximum Velocity	12 FPS
Cv	3136
Weight	36.4 lbs [16.5 kg]
Leakage	0%
Servicing	maintenance free

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.





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.

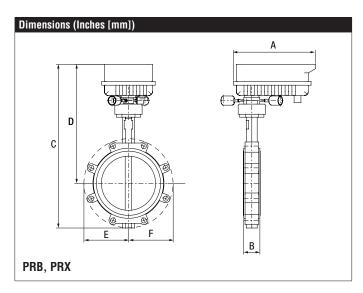
Jobsite Note

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

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

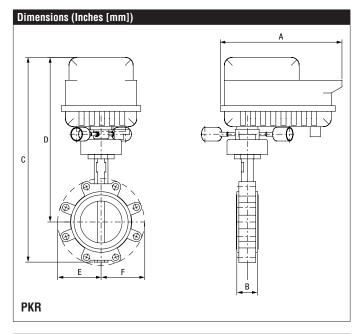
Suitable Actuators

	Non-Spring	Electronic Fail-Safe				
F6200L	PRB(X)	PKRB(X)				



Α	В	С	D	E	F
11.95"	2.36" [59.9]	23.91"	17.37"	6.51"	[165.4]
[303.5]		[607.3]	[441.2]		





A	В	C	D	E	F
11.95	" 2.36" [59.9]	26.13"	19.61"	6.51"	[165.4]
[303.5	1	[664]	[498.1]		

PKRXUP-MFT-T-200

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





	REG. EQUIP.			
Technical Data				
Power Supply	24240 VAC, -20% / +10%, 50/60 Hz, 24125 VDC, -20% / +10%			
Power Consumption Running	52 W @ 24 V, 40 W @ 120 V, 40 W @ 230 V			
Power Consumption Holding	7 W @ 24 V, 8 W @ 120 V, 9 W @ 230 V			
Transformer Sizing	55 VA @ 24 VAC/DC (class 2 power source), 43 VA @ 120 VAC/DC, 68 VA @ 230 VAC			
Electrical Connection	terminal block			
Overload Protection	electronic thoughout 0° to 90° rotation			
Operating Range Y	2 to 10 VDC, 4 to 20 mA variable (VDC, floating point, on/off)			
Input Impedance	100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4 to 20 mA, 1500 Ω for 0n/Off			
Feedback Output U	2 to 10 VDC, 0.5 mA max, VDC variable			
Angle of Rotation	90°			
Nominal Torque	Min. 1400 in-lbs [160 Nm]			
Direction of Rotation (Motor)	reversible with app			
Fail-Safe Position	adjustable with APP 0 to 100%			
Position Indication	top mounted domed indicator			
Manual Override	7 mm hex crank, supplied			
Running Time (Motor)	default 35 sec, variable 30120 sec			
Running Time (Fail-Safe)	<30 sec			
Bridge Time	programmable 0 to 10 sec (2 sec default) delay before fail-safe activates			
Pre-charging Time	5 to 20 seconds			
Ambient Humidity	5 to 100% RH (UL Type 4)			
Ambient Temperature Range	-22°F to 122°F [-30°C to 50°C]			
Housing	NEMA 4X, IP66/67, UL Enclosure Type 4			
Housing Material	Aluminum die cast and plastic casing			
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC			
Noise Level (Motor)	68 dB (A)			
Noise Level (Fail-Safe)	<62 dB (A)			
Servicing	maintenance free			
Quality Standard	ISO 9001			
Weight	14.1 lbs [6.4kg]			
Auxiliary switch	2 x SPDT, 3A resistive (0.5A inductive) @ 250 VAC, one set at 10°, one adjustable 0° to 90°			
Communication	BACnet MS/TP			
Passive Sensor Inputs	2 (PT1000) (NI1000) (NTC)			
Degree of Protection IEC/EN	IP66/67			

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.

Default/Configuration

Default parameters for 2 to 10 VDC applications of the PKR..-MFT actuator are assigned during manufacturing. If required, different parameters of the actuator can be ordered. These parameters are variable and can be modified by factory pre-set, the handheld ZTH US or using the Belimo App on a smart phone with Near Field Communications (NFC) programming.

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 24-240 VAC and 24-125 VDC. 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 4000V. Type of action 1. Control pollution degree 3.



Wiring Diagrams



Meets cULus requirements without the need of an electrical ground



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



Disconnect power.



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.

Provide overload protection and disconnect as required.



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.

