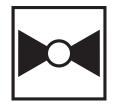
Carbon Steel Body, Hardened Chrome Plated, Stainless Steel Ball and Stem





2-year warranty



Technical data

E	ın	cti	in	na	ΙН	ata

Valve Size	6" [150]
Fluid	chilled or hot water, up to 60% glycol, steam
Fluid Temp Range (water)	-22380°F [-30193°C]
Fluid Temp Range (steam)	-22365°F [-30185°C]
Body Pressure Rating	ANSI Class 150
Close-off pressure ∆ps	250 psi
Flow characteristic	equal percentage
Servicing	repack/rebuild kits available
Rangeability Sv	300:1
Maximum differential pressure (water)	150 psi
Max Differential Pressure (Steam)	100 psi
Close-Off Pressure (Steam)	150 psi
Flow Pattern	2-way
Leakage rate	ANSI Class IV
Controllable flow range	75°
Cv	507
Maximum Inlet Pressure (Steam)	150 psi
Value hady	WCC grade carbon steel

Materials

Valve body	WCC grade carbon steel
Body finish	matt black body finish
Stem	stainless steel
Stem seal	PTFE V-ring
Seat	PTFE
Pipe connection	125/150 lb flanged, ASME/ANSI b16.1/b16.5
Ball	stainless steel
Non Caring	DDD/V)
Non-Spring	PRB(X)
Flectronic fail-safe	PKRR(X)

Suitable actuators

Product features

Fast quarter turn open or closed operation, stainless-steel ball and stem, positive isolation, two-piece body construction

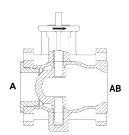
Application

This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box reheat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Product features

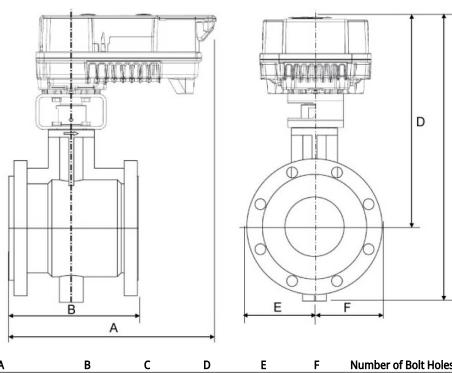


Flow/Mounting details

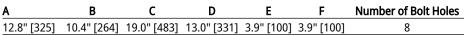


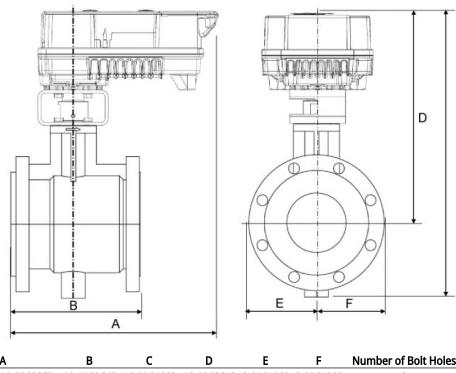
Dimensions

Dimensional drawings



B6VB-PR





B6VB-PR

Α	В	С	D	E	F	Number of Bolt Holes
12.8" [325]	10.4" [264]	19.0" [483]	13.0" [331]	3.9" [100]	3.9" [100]	8



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

Technical data sheet









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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, 1 x 10° / 1 x 090° (default setting 85°)
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
Communicative control	BACnet MS/TP

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 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
Options positioning signal	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)	default 35 s, variable 30120 s
Running time motor variable	30120 s
Noise level, motor	68 dB(A)
Position indication	integral pointer
Passive sensor inputs	2x (Pt1000, Ni1000, NTC10k2)
Degree of protection IEC/EN	IP66/67
Dograp of protection NEMA/III	NIENA AV

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]



	Technical data sheet	PRXUP-MFT-T
Safety data	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 100% RH
	Servicing	maintenance-free
Weight	Weight	13 lb [5.9 kg]
Materials	Housing material	Die cast aluminium and plastic casing

Product features

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.

Accessories

Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to LonWorks	UK24LON
	Gateway MP to Modbus RTU	UK24MOD
Electrical accessories	Description	Туре
	Service Tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US
Mechanical accessories	Description	Туре
Mechanical accessories	Description Hand crank for PR, PKR, PM	Type ZG-HND PR
Mechanical accessories Service tools	•	
	Hand crank for PR, PKR, PM	ZG-HND PR

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.

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.

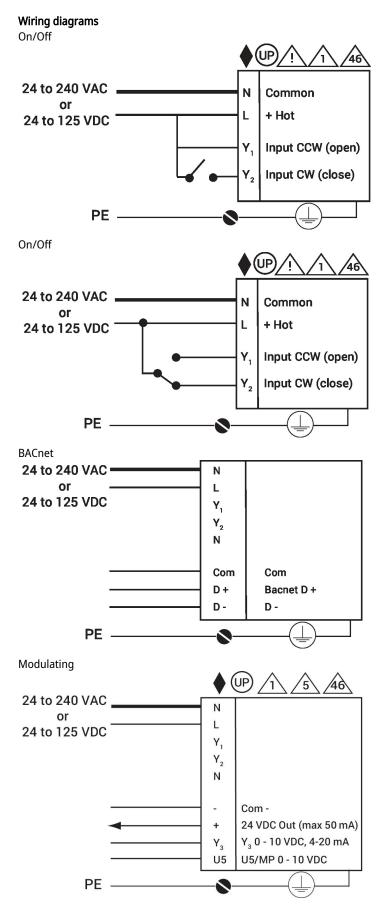
6 Only connect common to negative (-) leg of control circuits.

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

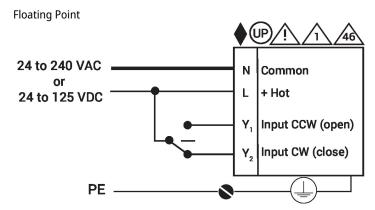
Warning! Live electrical components!



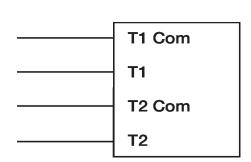
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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

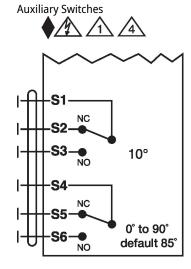






Temperature Sensors





Dimensions

Dimensional drawings

