

Technical data sheet

B240VS





Type overview

Туре	DN
B240VS	40

Technical data

Functional data	Valve size [mm]	1.5" [40]	
	Fluid	chilled or hot water, up to 60% glycol, steam	
	Fluid Temp Range (water)	-22280°F [-30138°C]	
	Body Pressure Rating	600 psig WOG psi	
	Close-off pressure Δps	600 psi	
	Flow characteristic	modified equal percentage 35 psi	
	Max Differential Pressure (Steam)		
	Flow Pattern	2-way	
	Leakage rate	ANSI Class VI	
	Controllable flow range	90° rotation	
	Сv	177	
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]	
	Maximum Velocity	15 FPS	
Materials	Valve body	Bronze B584-C84400	
	Housing seal	PTFE	
	Spindle	316 stainless steel	
	Spindle seal	RPTFE	
	Seat	RPTFE	
	Lock nut	stainless steel	
	Pipe connection	NPT female ends	
	Retainer	B584-C84400 bronze	
	Ball	316 stainless steel	
Suitable actuators	Non-Spring	GMB(X) SY1 PRB(X)	
	 Spring	AF	
	Electrical fail-safe	PKRB(X)	

Safety notes



• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

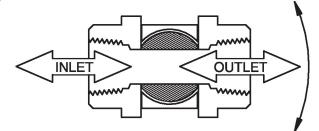


ApplicationThis valve is typically used in air handling units on heating or cooling coils, and fan coil unit
heating or cooling coils. Some other common applications include Unit Ventilators, VAV Box re-
heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.
This valve is designed with MFT functionally which facilitates the use of various control input.
Up to 35 psi steam

1/2" - 2" 600 PSIG WOG, Cold Non-Shock Federal Specification: WW-V-35C, Type II Composition: BZ

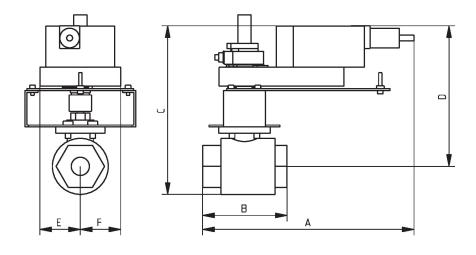
Style: 3

Flow/Mounting details



Dimensions

Туре	DN
B240VS	40



B240VS+GK..X1

A	В	С	D	Е	F
11.9" [302.5]	4.8" [121]	10.1" [257]	7.9" [201]	2.3" [58]	2.3" [58]



On/Off, Floating Point, Non Fail-Safe, 24...240 V, NEMA 4X

PRBUP-3-T





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, 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
Functional data	Direction of motion motor	reversible with app
	Manual override	7 mm hex crank, supplied
	Angle of rotation	90°
	Running Time (Motor)	35 s / 90°
	Noise level, motor	68 dB(A)
	Position indication	integral pointer
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]
	Ambient humidity	Max. 100% RH
	Servicing	maintenance-free
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.

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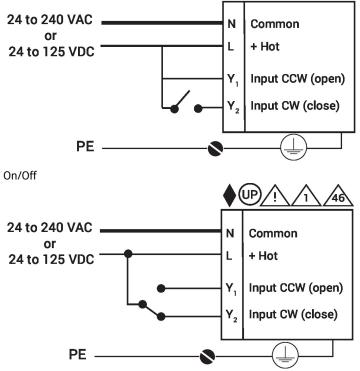
Technical data sheet

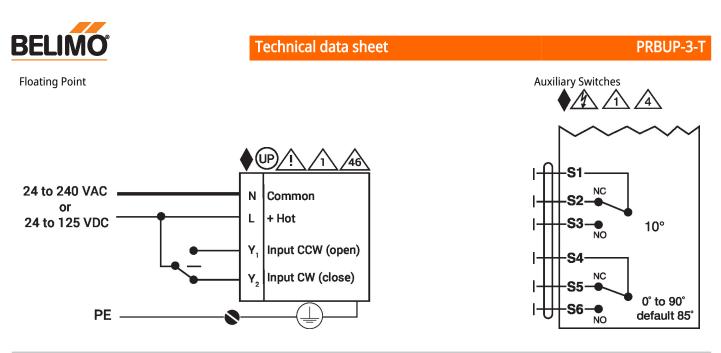
Operation The PR series actuator provides 90° of rotation and a visual indicator shows the position of the valve. The PR Series actuator uses a low power consumption brushless DC motor and is electronically protected against overload. A universal power supply is furnished to connect supply voltage in 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

Mechanical accessories	Description	Туре
	Hand crank for PR, PKR, PM	ZG-HND PR
Electrical installation		
	 Meets cULus requirements without the need of an electrical Universal Power Supply (UP) models can be supplied with 24 to 125 VDC. Disconnect power. Provide overload protection and disconnect as required. Two built-in auxiliary switches (2x SPDT), for end position inclustrup, etc. Actuators may be controlled in parallel. Current draw and in Warning! Live electrical components! During installation, testing, servicing and troubleshooting of to work with live electrical components. Have a qualified lice who has been properly trained in handling live electrical components of the property trained in handling live electrical components when exposite could result in death or serious injury. 	VAC up to 240 VAC, or 24 VDC up dication, interlock control, fan put impedance must be observed. f this product, it may be necessary nsed electrician or other individual nponents perform these tasks.
Wiring diagrams On/Off		
24 to 240 VAC		





Dimensions

