

Stainless Steel Ball and Stem

Carbon Steel Body, Hardened Chrome Plated,

Technical data sheet

B2100VB-024







Technical data

Functional data	Valve Size	1" [25]
	Fluid	chilled or hot water, up to 60% glycol, steam
	Fluid Temp Range (water)	-22380°F [-30193°C]
	Fluid Temp Range (steam)	-22380°F [-30193°C]
	Body Pressure Rating	ANSI Class 300
	Close-off pressure ∆ps	250 psi
	Flow characteristic	equal percentage
	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	24
	Maximum Inlet Pressure (Steam)	150 psi
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	NPT female ends
	Ball	stainless steel
Suitable actuators	Non-Spring	SY1
		AMB(X)
		PRB(X)
	Spring	NF
	Electronic fail-safe	PKRB(X)

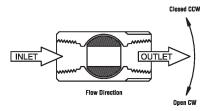
Product features

Product features	Fast quarter turn open or closed operation, stainless-steel ball and stem, positive isolation, two- piece body construction
Application	Water-side control of air handling apparatus in ventilation and air-conditioning system. Water/Steam control in heating system. 300:1 rangeability. The dimensions and drilling of end flanges conform to the American cast iron flange standard, Class 150 (ANSI B16.1).



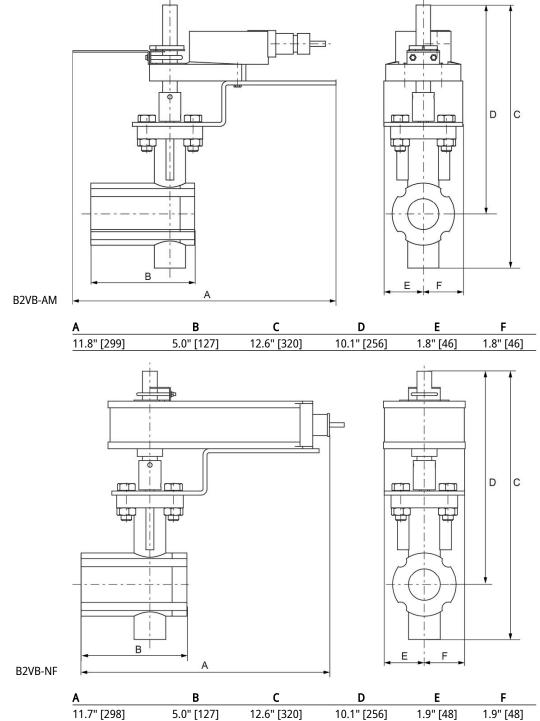
Technical data sheet

Flow/Mounting details

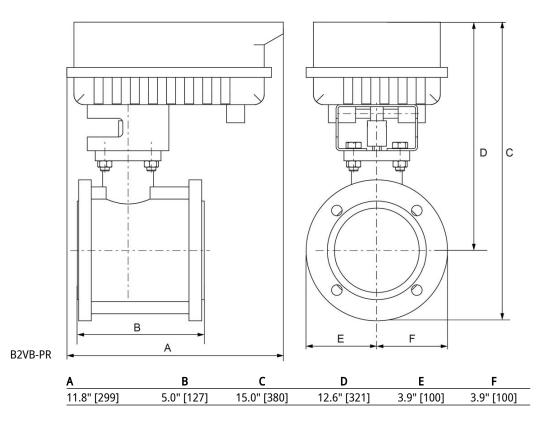


Dimensions

Dimensional drawings









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

PRBUP-3-T



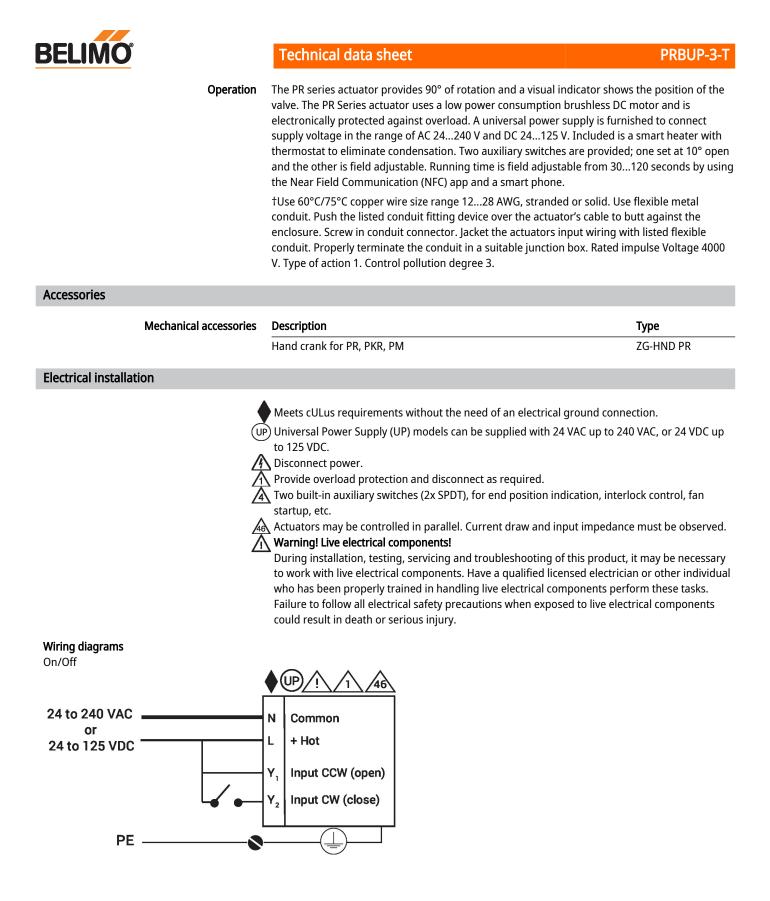


Technical data

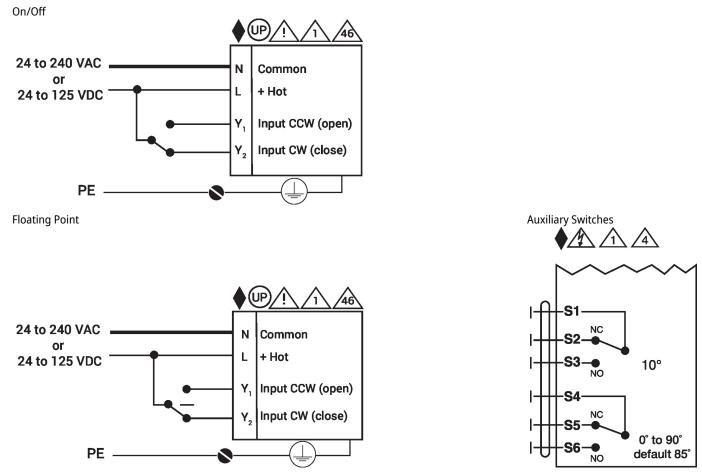
Electrical data	Nominal voltage	AC 24240 V / DC 24125 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	20 W
	Power consumption in rest position	6 W
	Transformer sizing	20 VA @ AC/DC 24 V (class 2 power source), 23 VA @ AC/DC 120 V, 52 VA @ AC 230 V
	Auxiliary switch	2 x SPDT, 3 A 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
	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
Weight	Weight	13 lb [5.9 kg]
Materials	Housing material	die cast aluminium polycarbonate cover

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.







Dimensions

Dimensional drawings

