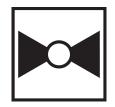
Carbon Steel Body, Hardened Chrome Plated,

Stainless Steel Ball and Stem





2-year warranty



Technical data

_	_	_	_
Cur	actio	nal	data

Valve Size	2" [50]	
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 Δps	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	77	
Maximum Inlet Pressure (Steam)	150 psi	
Valve body	WCC grade carbon steel	

Materials

Suitable actuators

Body finish	matt black body finish
Stem	stainless steel
Stem seal	PTFE V-ring
Seat	PTFE
Pipe connection	NPT female ends
Ball	stainless steel
Non-Spring	SY1
	AMB(X)
	PRB(X)
Spring	AF

PKRB(X)

Product features

Product features Fast quarter turn open or closed operation, stainless-steel ball and stem, positive isolation, two-

piece body construction

Electronic fail-safe

Application Water-side control of air handling apparatus in ventilation and air-conditioning system.

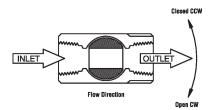
Water/Steam control in heating system.

300:1 rangeability.

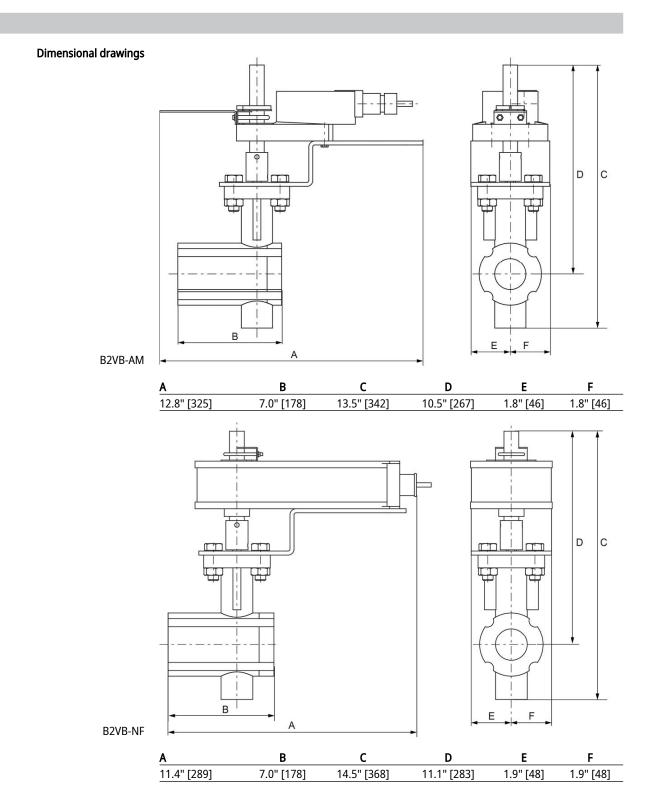
The dimensions and drilling of end flanges conform to the American cast iron flange standard, Class 150 (ANSI B16.1).



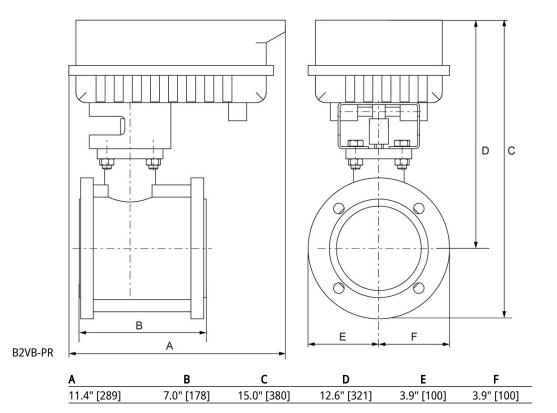
Flow/Mounting details



Dimensions







www.belimo.com



Technical data



Nominal voltage

Enclosure

Agency Listing

Electrical data





AC 24...240 V / DC 24...125 V

	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	7 W
	Power consumption in rest position	3.5 W
	Power consumption for wire sizing	18 VA
	Transformer sizing	7 VA @ AC 24 V (class 2 power source), 8.5 VA @ AC 120 V, 18 VA @ AC 240 V
	Auxiliary switch	2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 1090°
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V
	Electrical Connection	(2) 18 GA appliance cables with 1/2" conduit connectors, 3 ft [1 m],
	Overload Protection	electronic throughout 095° rotation
Functional data	Direction of motion motor	selectable by ccw/cw mounting
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Angle of rotation	95°,
	Running Time (Motor)	75 s
	Running time fail-safe	<20 s
	Noise level, motor	50 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2

		and Section 602.2 of the IMC	
	Quality Standard	ISO 9001	
	Ambient temperature	-22122°F [-3050°C]	
	Storage temperature	-40176°F [-4080°C]	
	Ambient humidity	Max. 95% RH, non-condensing	
	Servicing	maintenance-free	
Weight	Weight	4.6 lb [2.1 kg]	
Materials	Housing material	Galvanized steel and plastic housing	

UL Enclosure Type 2

cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC



Electrical installation



★ 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.



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



Actuators with appliance cables are numbered.

(UP) Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.



Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.



A Provide overload protection and disconnect as required. Actuators may also be powered by DC 24 V.



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



Actuators may be powered in parallel. Power consumption must be observed.

A Parallel wiring required for piggy-back applications.

Wiring diagrams On/Off

