BELIMO

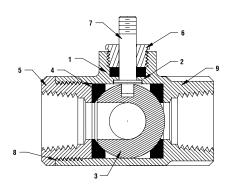
B3...VS Series, 3-Way, Ball Valve Bronze Body, Stainless Steel Ball and Stem







nnical Data	
lia	chilled or hot water, glycol
v characteristic	modified equal percentage
on	90° rotation
	A to AB open CCW, B to AB open CW
S	1/2", 3/4", 1", 11/4", 11/2", 2"
e of end fitting	SAE NPT (female connection)
erials:	
Stem Packing	PTFE
Stem Bearing	PTFE
Ball	316 Stainless Steel
Seat (x2)	PTFE w/ Durafill
Retainer	B16 (½" - 1") Brass
	B584 (11/4" - 2") Brass
Gland	ASTM B16 Brass
Stem	316 Stainless steel
Jam Nut	PTFE (11/4"" - 2")
Body Seal	B584-C84400 Bronze
	Stem Bearing Ball Seat (x2) Retainer Gland Stem Jam Nut



Pressure rating	400 psig WOG
Media temp. range	-22°F to 250°F (-30°C to 120°C)
Close-off pressure	400 psig @ 100°F
Maximum differential	<75 psig
pressure (ΔP)	

PORT B PORT A PORT A CW B to AB

- 316 Stainless Ball and Stem
- · Reinforced PTFE seats and stuffing box
- Blow-out proof stem design
- Adjustable packing gland

Application

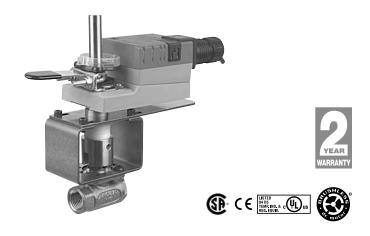
These threaded valves are designed to provide modulating or two position control of hot or chilled water.

Typical applications include reheat coils, VAV terminal control, unit ventilators, and air handlers, especially in areas which have minimum profile requirements.

• 400 PSIG WOG, Cold Non-Shock

	Valve No	ninal Size	Type	Suitable Return Actuators			
Cv	Inches	DN [mm]	3-way NPT	Spring	Non-Spring		
4.8	1/2	15	B315VS	H H	E		
11	3/4	20	B320VS	불	NM Series		
21	1	25	B325VS		Ser		
33	11⁄4	32	B332VS	Series	AM		
49	1½	40	B340VS	AF S	GM Series		
91	2	50	B350VS		G		

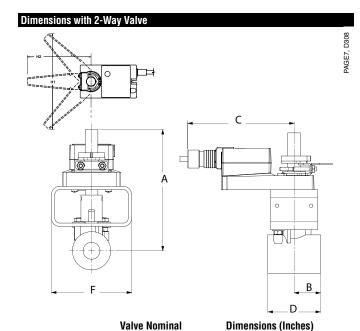




Models

AMB24-3-X1 AMX24-3-X1

Technical Data						
Control		on/off, floating point				
Power supply		24 VAC ± 20% 50/60 Hz				
,		24 VDC ± 10%				
Power consumption	running	2.5 W				
	holding	0.2 W				
Transformer sizing		5.5 VA (class 2 power source)				
Electrical connection		½" conduit connector				
AMB24-3-X1		3 ft, 18 GA plenum rated cable				
Overload protection		electronic throughout 0° to 95° rotation				
Input impedance		600 Ω				
Angle of rotation		max 95°, adjustable with mechanical stop				
Torque		180 in-lb [20 Nm]				
Direction of rotation		reversible with				
Position indication		reflective visual indicator (snap-on)				
Manual override		external push button				
Running time		95 seconds, constant independent of load				
Humidity		5 to 95% RH non-condensing (EN 60730-1)				
Ambient temperature		-22° F to 122° F [-30° C to 50° C]				
Storage temperature		-40° F to 176° F [-40° C to 80° C]				
Housing		NEMA type 2/IP54				
Housing material		UL94-5VA				
Agency listings		cULus according to UL 60730-1/-2-14,				
		CAN/CSA C22.2 No. 24 certified,				
		CE according to 73/23/EEC				
Noise level		<45 db(A)				
Servicing		maintenance free				
Quality standard		ISO 9001				



Size Valve Body COP C D H1 H2 Inches [mm] 25 B2100VS-68 400 8.00 2.00 4.62 3.60 4.60 9.75 8.50 1 B2125VS-48 400 32 8.00 | 2.00 | 4.62 | 4.00 | 4.60 | 9.75 | 8.50 11/4 B2150VS-84 400 11/2 40 8.00 | 2.00 | 4.62 | 4.40 | 4.60 | 9.75 | 8.50 8.00 2.00 4.62 4.70 4.60 9.75 8.50 B2200VS-108 400 2 8.00 | 2.00 | 4.62 | 4.00 | 4.60 | 9.75 | 8.50 B2125VSS-48 1000 11/4 32 8.00 2.00 4.62 4.40 4.60 9.75 8.50 B2150VSS-84 1000 1½ 40

50

2

8.00 2.00 4.62 5.50 5.43 9.75 8.50

Dimensions (Inches)

Dimensions with 3-Way Valve

Size											
Valve Body	COP	Inches	DN [mm]	A	_	C	_	E			H2
B320VS	75	1	25	7.00	1.50	6.88	3.56	1.88	3.15	9.75	8.50
B325VS	75	11/4	32	7.00	2.00	7.48	4.13	2.07	3.46	9.75	8.50
B332VS	75	11/4	32	7.00	2.00	7.48	4.13	2.07	3.46	9.75	8.50

Valve Nominal

B2200VSS-108

1000



Wiring Diagrams



INSTALLATION NOTES



Provide overload protection and disconnect as required.



CAUTION Equipment damage!

Actuators may be connected in parallel. Power consumption and input impedance must be observed.



Actuators may also be powered by 24 VDC.



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



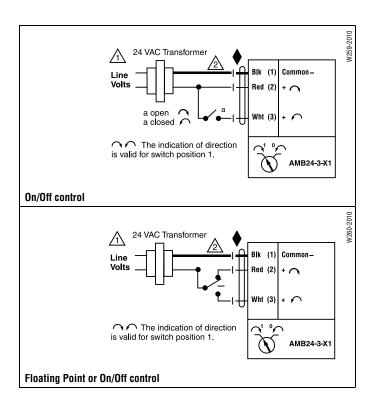
APPLICATION NOTES



Meets cULus or UL and CSA requirements without the need of an electrical ground connection.

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.



Piping

The valve should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. Allow 6" for cover removal and 12" for complete actuator removal. The assembly can be mounted with the actuator vertical or horizontal in relation to the pipe. The actuators should never be mounted underneath the valve, as condensation can build up and result in a failure of the actuators. Do not reverse flow direction.