



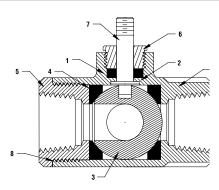
B2...VSS Series, 2-Way, Ball Valve Stainless Steel Body, Ball and Stem





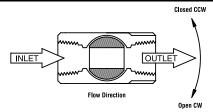


Tech	nical Data					
Med	ia	chilled or hot water, glycol, 50# steam				
Flow characteristic		modified equal percentage				
Action		90° rotation				
		valve open CW, valve closed CCW				
Size	S	1/2", 3/4", 1", 11/4", 11/2", 2", 21/2"				
Type of end fitting		SAE NPT (female connections)				
Mate	erials:					
_1	Stem Packing	Reinforced PTFE				
2	Stem Bearing	Reinforced PTFE				
3	Ball	316 Stainless Steel				
4	Seat (x2)	Reinforced PTFE w/ Durafill				
5	Retainer	B16 (3/4" - 1") Brass				
		B584 (11/4" - 3") Brass				
6	Gland	A276-316				
7	Stem	316 Stainless Steel				
8	Jam Nut	Stainless Steel				
9	Body Seal	PTFE (11/4" to 3")				
10	Body	A351-CF8M 316 Stainless Steel				



Pressure rating	2000 psig WOG (½" - 1")				
Media temp. range	-22°F to 298°F (-30°C to 148°C)				
Close-off pressure	600 psig @ 100°F				
Maximum differential	<600 psig				
pressure (ΔP)					

Flow Patterns



- Live-load packing set
- Stainless steel ball & stem
- Blow-out proof stem design

Application

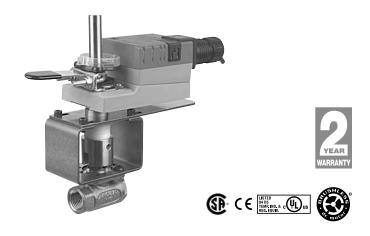
These threaded valves are designed to provide modulating or two position control of hot or chilled water and saturated steam systems under 50 psi.

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

- Up to 50 psi steam
- 1/2" 2000 PSIG WOG, Cold Non-Shock.
- Federal Specification: WW-V-35C,Type II, Composition: SS Style: 3

	Valve Nominal Size		Туре	Suitable Return Actuators				
Cv	Inches	DN [mm]	2-way NPT	Spring	Non- S	Spring		
15	1/2	15	B2050VSS-15	LF Series	NM Series			
30	3/4	20	B2075VSS-30	L Ser	Ser			
43	1	25	B2100VSS-43	S	M ies	ries		
48	11/4	32	B2125VSS-48	Series	Al	Series		
84	1½	40	B2150VSS-84	AF S	S	SY		
108	2	50	B2200VSS-108	⋖	GM Series			
503	21/2	65	B2250VSS-503		S			
370	3	80	B2300VSS-370					

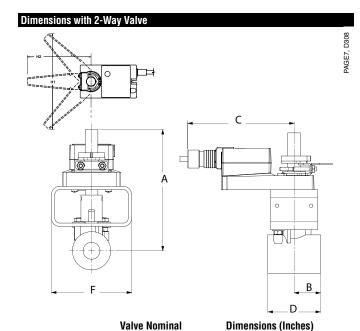




Models

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 \frown / \frown switch				
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.



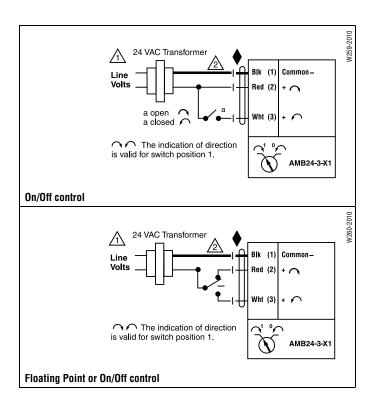
APPLICATION NOTES



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.