B2...VS Series, 2-way, Ball Valve Bronze Body, Stainless Steel Ball and Stem

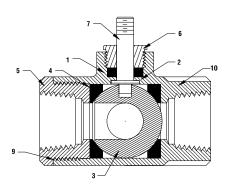






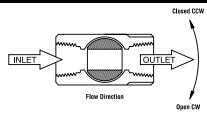


Tech	nical Data				
Media		chilled or hot water, glycol, 35# steam			
Flow	characteristic	modified equal percentage			
Actio	on	90° rotation			
		valve open CW, valve closed CCW			
Size	S	1/2", 3/4", 1", 11/4", 11/2", 2"			
Туре	of end fitting	SAE NPT (female connections)			
Mate	erials:				
1	Stem packing	reinforced PTFE			
2	Stem bearing	reinforced PTFE			
3	Ball	316 stainless steel			
4	Seat (x2)	reinforced PTFE w/ Durafill			
5	Retainer	B16 (¾" - 1") stainless steel			
		B584 (11/4" - 2") stainless steel			
6	Gland	B16 brass			
7	Stem	316 stainless steel			
8	Jam nut	stainless steel			
9	Body seal	PTFE (1-1/4" to 2")			
10	Body	B584-C84400 bronze			



Pressure rating	600 psig WOG				
Media temp. range	-22°F to +280°F (-30°C to +138°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

This 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 functionality which facilitates the use of various control input.

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

Style: 3

	Valve Nor	ninal Size	Туре	Suitable Actuators			
C_{ν}	Inches	DN [mm]	2-way NPT	Spring Return	Non-S Ret		
1	1/2	15	B2050VS-01	S	Se		
2	1/2	15	B2050VS-02	LF Series	Series		
4	1/2	15	B2050VS-04	ω S	S W		
15	1/2	15	B2050VS-15	_			
30	3/4	20	B219VS	불	ΣN	S	
51	3/4	20	B220VS	Z	Z	Series	
43	1	25	B224VS			S ×	
68	1	25	B225VS	တ္		SY	
48	11/4	32	B232VS	AF Series			
84	1½	40	B239VS	Š	S		
177	1½	40	B240VS	₹	GM Series		
108	2	50	B249VS		Š		





AM(B)X24-3-X1, ARX24-3 Actuators, On/Off, Floating Point

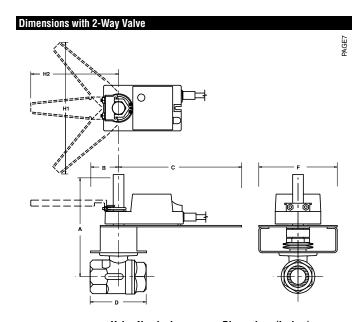




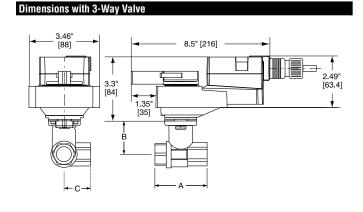
Models

AMB24-3-X1 AMX24-3-X1 ARX24-3

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-lbs [20 Nm]				
Direction of rotation	reversible with $\frown/\!$				
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 acc. to UL 60730-1/-2-14,				
	CAN/CSA C22.2 No. 24 certified,				
	CE acc. to 73/23/EEC				
Noise level	<45 db(A)				
Servicing	maintenance free				
Quality standard	ISO 9001				



	Valve Nominal Dimens Size					ions (Inche	s)		
Valve Body	COP	Inches	DN [mm]	A	В	C	D	F	H1	H2
B225VS	200	1	25	7.00	2.00	8.00	3.62	6.25	9.75	8.50
B232VS	600	11/4	32	7.25	2.00	8.00	3.97	6.25	9.75	8.50
B224VSS	1000	1	25	7.00	2.00	8.00	3.37	6.25	9.75	8.50



		Valve N Siz		Dim	ensions (m	m)
Valve Body	СОР	Inches	DN [mm]	A	В	C
B340L	200	1½	40	4.80" [122]	2.44" [62]	2.61" [65]
B350L	200	2	50	5.60" [142]	2.67" [68]	3.11" [79]

AM(B)X24-3-X1, ARX24-3 Actuators, On/Off, Floating Point



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.



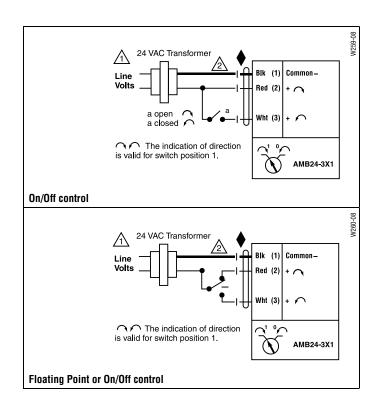
APPLICATION NOTES



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.