K20951 - 10/08 - Subject to change. © Belimo Aircontrols (USA), Inc.

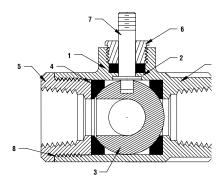






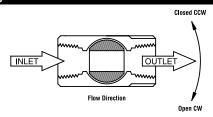


Tech	ınical Data					
Media		Chilled or hot water, glycol, 50# steam				
Flow Characteristic		Modified equal percentage				
Action		90° rotation				
		valve open CW, valve closed CCW				
Size	S	1/2", 3/4", 1", 11/4", 11/2", 2", 21/2"				
Type of end fitting		SAE NPT (Female Connections)				
Mate	erials:					
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

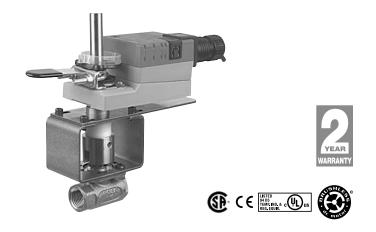
These threaded valves are designed to provide modulating or two position control of hot or chilled water and saturated steam systems under 50 psi.

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
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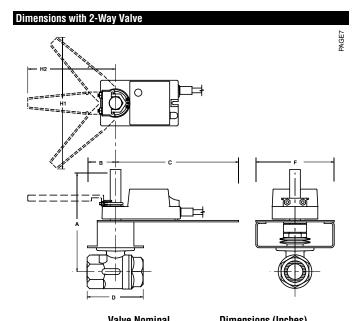
	Valve Nor	inal Size	Type	Suitable Return Actuators			
Cv	Inches	DN [mm]	2-way NPT	Spring	Non- Spring		
15	1/2	15	B2050VSS-15	E S	Mes		
30	3/4	20	B219VSS	LF Series	NM Series		
43	1	25	B224VSS	10	I es	<u>es</u>	
48	11⁄4	32	B232VSS	Series	AM Series	SY Series	
84	1½	40	B239VSS	AF Sı	S	SY	
108	2	50	B249VSS	V	GM Series		
503	2½	65	B265VSS		S		



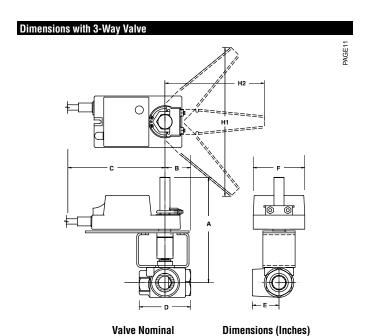
Models

AMB24-3-X1 AMX24-3-X1

electronic throughout 0° to 95° rotation 600Ω				
max 95°, adjustable with mechanical stop				
180 in-lb [20 Nm]				
reversible with $\frown/\!$				
reflective visual indicator (snap-on)				
external push button				
95 seconds, constant independent of load				
5 to 95% RH non-condensing (EN 60730-1)				
-22° F to 122° F [-30° C to 50° C]				
NEMA type 2/IP54				
UL94-5VA				
<45 db(A)				
maintenance free				



		valve Ni		Dimensions (inches)						
Valve Body	COP	Inches	DN [mm]	A	В	C	D	F	H1	H2
B224VS	400	1	25	7.00	2.00	8.00	3.37	6.25	9.75	8.50
B225VS	200	1	25	7.00	2.00	8.00	3.62	6.25	9.75	8.50
B232VS	400	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
B232VSS	1000	11/4	32	7.25	2.00	8.00	3.97	6.25	9.75	8.50



Size Inches D [mm] 3/4

Valve Body COP 6.70 | 1.50 | 6.88 | 2.82 | 1.62 | 3.15 | 9.75 | 8.50 | 7.00 | 1.50 | 6.88 | 3.56 | 1.88 | 3.15 | 9.75 | 8.50 | 7.00 | 2.00 | 7.48 | 4.13 | 2.07 | 3.46 | 9.75 | 8.50 B320VS 75 B325VS 75 B332VS 75 11/4



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

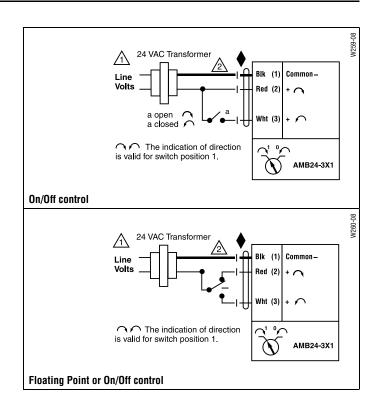


Meets cULus or UL and CSA requirements without the need of an electrical ground connection.

n n

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.