BELIMO

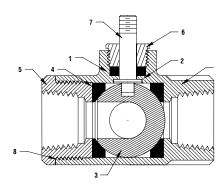
B2...VS Series, 2-Way, Ball Valve Bronze Body, Stainless Steel Ball and Stem





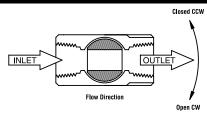


ınical Data					
ia	chilled or hot water, glycol, 35# steam				
r characteristic	modified equal percentage				
on	90° rotation				
	valve open CW, valve closed CCW				
S	1/2", 3/4", 1", 11/4", 11/2", 2", 21/2", 3"				
e of end fitting	SAE NPT (female connections)				
erials:					
Stem Packing	Reinforced PTFE				
Stem Bearing	Reinforced PTFE				
Ball	316 Stainless Steel				
Seat (x2)	Reinforced PTFE w/ Durafill				
Retainer	B16 (¾" - 1") Brass				
	B584 (11/4" - 3") Brass				
Gland	B16 Brass				
Stem	316 Stainless Steel				
Jam Nut	Stainless Steel				
Body Seal	PTFE (1-1/4" to 3")				
Body	B584-C84400 Bronze				
	ia v characteristic on s e of end fitting erials: Stem Packing Stem Bearing Ball Seat (x2) Retainer Gland Stem Jam Nut Body Seal				



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.

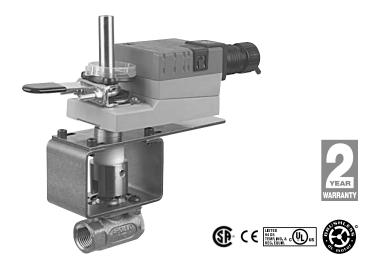
This valve is designed with MFT functionality which facilitates the use of various control input.

- 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 Nominal Size		Туре	Suitable Return Actuators			
Cv	Inches	DN [mm]	2-way NPT	Spring Non-S		Spring	
1	1/2	15	B2050VS-01	Š			
2	1/2	15	B2050VS-02	Series	Series		
4	1/2	15	B2050VS-04	R S	S IVI		
15	1/2	15	B2050VS-15	_	5		
30	3/4	20	B2075VS-30	불	MM		
51	3/4	20	B2075VS-51	Z	Ē		
43	1	25	B2100VS-43		S	Series	
68	1	25	B2100VS-68		AM Series	Ser	
48	11/4	32	B2125VS-48	ies		SY	
84	1½	40	B2150VS-84	Series			
177	1½	40	B2150VS-177	ΑF	S		
108	2	50	B2200VS-108		GM Series		
389	2	50	B2200VS-389		S I		
503	2½	65	B2250VS-503		5		
370	3	80	B2300VS-370				

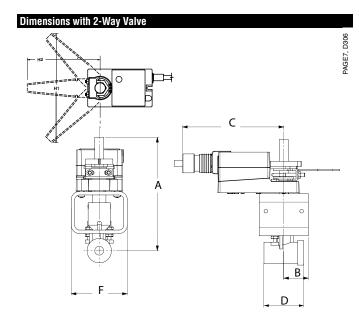




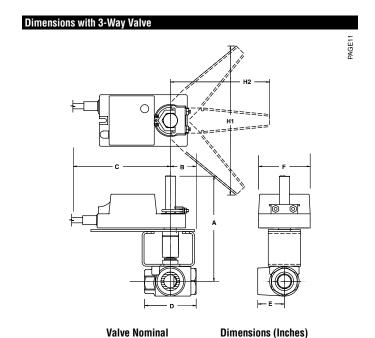
Models

LMB24-3-X1 LMX24-3-X1

Technical Data						
Control		on/off, floating point				
Power supply		24 VAC ± 20% 50/60 Hz				
		24 VDC ± 10%				
Power consumption	running	1.5 W				
	holding	0.2 W				
Transformer sizing		3 VA (class 2 power source)				
Electrical connection		½" conduit connector				
LMB24-3-X1		3 ft, 18 GA plenum rated cables				
Overload protection		electronic throughout 0° to 95° rotation				
Input impedance		600 Ω				
Angle of rotation		95°				
Torque		45 in-lb [5 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		<35 db(A)				
Servicing		maintenance free				
Quality standard		ISO 9001				



			Nominal Size	Dimensions (Inches)						
Valve Body	COP	Inches	DN [mm]	Α	В	C	D	F	H1	H2
B2050VS-01	100	1/2	15	6.75	1.50	5.68	2.20	3.15	9.75	8.50
B2050VS-02	100	1/2	15	6.75	1.50	5.68	2.20	3.15	9.75	8.50
B2050VS-04	100	1/2	15	6.75	1.50	5.68	2.20	3.15	9.75	8.50
B2050VS-15	100	1/2	15	6.75	1.50	5.68	2.20	3.15	9.75	8.50
B2050VSS-15	1000	1/2	15	6.75	1.50	5.68	2.30	3.15	9.75	8.50



 Size

 Valve Body
 COP Inches
 DN [mm]
 A
 B
 C
 D
 E
 F
 H1
 H2

 B315VS
 75
 ½
 15
 6.50
 1.50
 4.70
 2.30
 1.25
 3.19
 9.75
 8.50



Wiring Diagrams



INSTALLATION NOTES



Provide overload protection and disconnect as required.



Actuators may also be powered by 24 VDC.



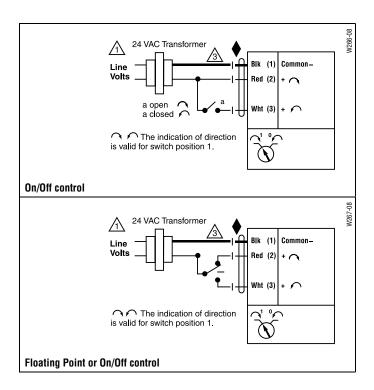
APPLICATION NOTES



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.