BELIM

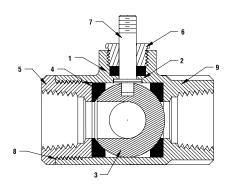
B3...VS Series, 3-Way, Ball Valve Bronze Body, Stainless Steel Ball and Stem







Tec	hnical Data					
Med	dia	chilled or hot water, glycol				
Flo۱	v characteristic	modified equal percentage				
Acti	on	90° rotation				
		A to AB open CCW, B to AB open CW				
Size	S S	1/2", 3/4", 1", 11/4", 11/2", 2"				
Тур	e of end fitting	SAE NPT (female connection)				
Mat	erials:					
1	Stem Packing	PTFE				
2	Stem Bearing	PTFE				
3	Ball	316 Stainless Steel				
4	Seat (x2)	PTFE w/ Durafill				
5	Retainer	B16 (½" - 1") Brass				
		B584 (11/4" - 2") Brass				
6	Gland	ASTM B16 Brass				
7	Stem	316 Stainless steel				
8	Jam Nut	PTFE (11/4"" - 2")				
9	Body Seal	B584-C84400 Bronze				



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 CCW A 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.

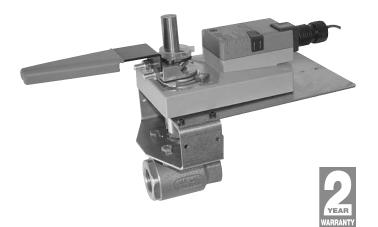
Typical applications include reheat coils, VAV terminal control, unit ventilators, and air handlers, especially in areas which have minimum profile requirements.

• 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	Ä	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			

GMB24-3-X1 Actuators, On/Off, Floating Point



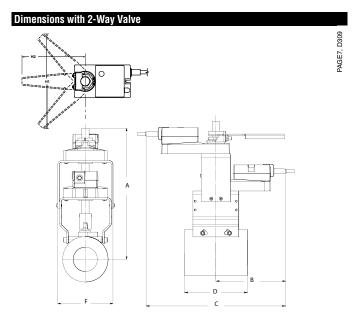




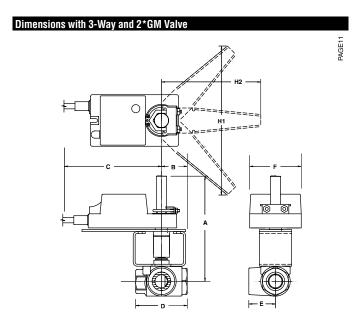


Models GMB24-3-X1 2*GMB24-3-X1

Technical Data							
Control		on/off, floating point					
Power supply		24 VAC ± 20% 50/60 Hz					
		24 VDC ± 10%					
Power consumption	running	4 W					
•	holding	2 W					
Transformer sizing		6 VA (Class 2 power source)					
Electrical connection		3 ft [1m]					
		18 GA plenum rated cable					
		½" conduit connector					
Overload protection		electronic throughout stroke					
Angle of rotation		95°					
Direction of rotation		reversible with \frown/\frown switch					
Position indication		reflective visual indicator (snap-on)					
Running time		150 seconds, constant independent of load					
Humidity		5 to 95% RH non-condensing					
Ambient temperature		-22°F to 122°F [-30°C to 50°C]					
Housing		NEMA 2/IP54 with cable entry down					
Housing material		UL94-5V (flammability rating)					
Agency listings		cULus according to UL 60730-1A/-2-14,					
		CAN/CSA E60730-1, CSA C22.2 No. 24-93,					
		CE according to 89/336/EEC					
Noise level		<45 dB(A)					
Quality standard		ISO 9001					



		Val Nomin		Dimensions (Inches)						
Valve Body	СОР	Inches	DN [mm]	A	В	С	D	F	H1	H2
B2150VS-177	400	1½	40	8.65	7.00	8.50	4.80	4.60	9.75	8.50
B2200VS-389	400	2	50	8.65	7.00	8.50	5.40	4.60	9.75	8.50
B2300VS-370	400	3	80	8.65	7.00	8.50	6.80	4.60	9.75	8.50
2*B2250VS-503	200	2½	65	8.65	7.00	11.90	6.50	5.62	9.75	8.50
B2250VSS-503	1000	2½	65	8.65	7.00	8.50	6.80	4.60	9.75	8.50
2*B2300VSS-370	1000	3	80	8.65	7.00	8.50	6.80	4.60	9.75	8.50



Valve Nominal Size						Dimensions (Inches)						
l	Valve Body	СОР	Inches	DN [mm]	A	В	C	D	E	F	H1	H2
	B332VS	200	11/4	32	7.00	2.00	8.00	4.44	2.25	6.25	9.75	8.50
	B340VS	75	1½	40	7.00	2.00	8.00	4.44	2.25	6.25	9.75	8.50
	B350VS	75	2	50	15.00	8.00	8.00	5.38	2.75	6.25	9.25	8.50
	B350VS	200	2	50	15.00	8.00	8.00	5.38	2.75	6.25	9.75**	8.50**

**Handles not available on spring return series or dual mounted actuators

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GMB24-3-X1 Actuators, On/Off, Floating Point

Wiring Diagrams



Provide overload protection and disconnect as required.



Actuators may be connected in parallel if not mechanically mounted to the same shaft. Power consumption and input impedance must be observed.



Actuators may also be powered by 24 VDC.



Position feedback cannot be used with Triac sink controller. The actuator internal common reference is not compatible.



Control signal may be pulsed from either the Hot (source) or the Common (sink) 24 VAC line.

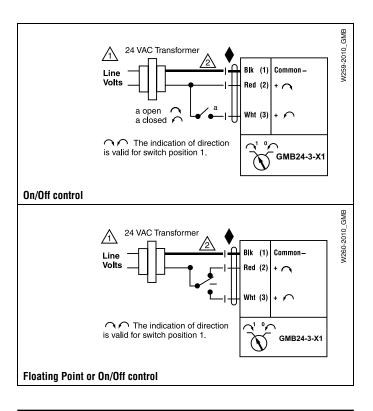


Contact closures A & B also can be triacs.



A& B should both be closed for triac source and open for triac sink.

For triac sink the common connection from the actuator must be connected to the hot connection of the controller.



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.



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.

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