BELIMO

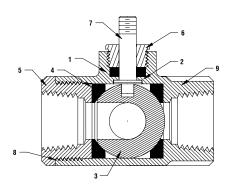
B3...VS Series, 3-Way, Ball Valve Bronze Body, Stainless Steel Ball and Stem







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



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

- 316 Stainless Ball and Stem
- · Reinforced PTFE seats and stuffing box
- Blow-out proof stem design
- Adjustable packing gland

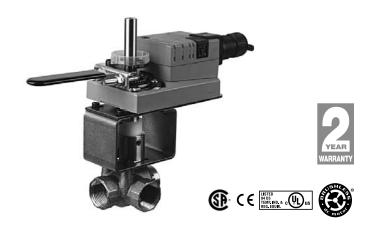
Application

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

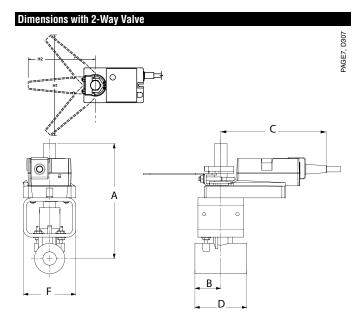
	Valve No	ninal Size	Type	Suitable Ret	urn Actuators		
Cv	Inches DN [mm]		3-way NPT	Spring	Non-Spring		
4.8	1/2	15	B315VS	H H	E		
11	3/4	20	B320VS	불	NM Series		
21	1	25	B325VS		Ser		
33	11⁄4	32	B332VS	Series	AM		
49	1½	40	B340VS	AF S	GM Series		
91	2	50	B350VS		G		



Models

NMB24-3-X1 NMX24-3-X1

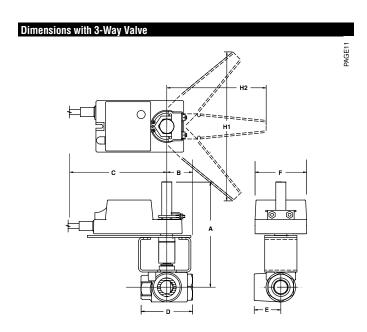
Technical Data	
Control	on/off, floating point
	24 VAC ± 20% 50/60 Hz
Power supply	
Dawar canaumation supping	24 VDC ± 10%
Power consumption running	
holding	
Transformer sizing	4 VA (class 2 power source)
Electrical connection	3 ft, 18 GA plenum rated cable
NMB24-3-X1	½" conduit connector
Overload protection	electronic throughout 0° to 95° rotation
Input impedance	600 Ω
Angle of rotation	max 95°, adjustable with mechanical stop
Torque	90 in-lb [10 Nm]
Direction of rotation	reversible with \frown / \frown switch
\sim	=CCW with decreasing control signal (10-2V)
	=CW with decreasing control signal (10-2V)
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



Valve Nominal Size

Dimensions (Inches)

Valve Body	СОР	Inches	DN [mm]	A	В	C	D	F	H1	H2
B2075VS-30	400	3/4	20	7.30	2.00	8.00	3.00	3.15	9.75	8.50
B2075VS-51	400	3/4	20	7.30	2.00	8.00	3.20	3.15	9.75	8.50
B2100VS-43	400	1	25	7.40	2.00	8.00	3.40	3.15	9.75	8.50
B2075VSS-30	1000	3/4	20	7.30	2.00	8.00	3.00	3.15	9.75	8.50
B2100VSS-43	1000	1	25	7.40	2.00	8.00	3.40	3.15	9.75	8.50



Valve Nominal

Dimensions (Inches)

3126												
Valve B	ody	СОР	Inches	DN [mm]	A	_	C	_	_	F		H2
B315V	/S	200	1/2	15	6.70	1.50	6.88	2.82	1.62	3.15	9.75	8.50
B320V	/S	75	3/4	20	6.70	1.50	6.88	2.82	1.62	3.15	9.75	8.50
B325V	/S	75	1	25	7.00	1.50	6.88	3.56	1.88	3.15	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

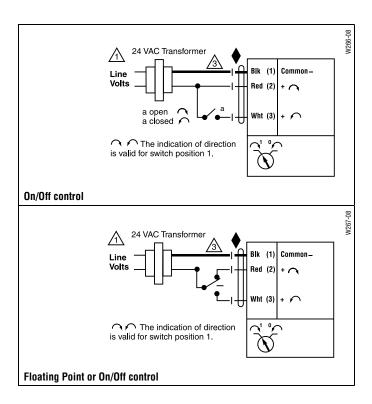


Meets cULus or UL and CSA requirements without the need of an electrical ground connection.



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.