



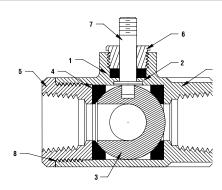
B2...VSS Series, 2-Way, Ball Valve Stainless Steel Body, Ball and Stem





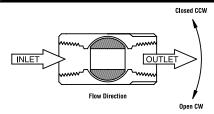


Tech	inical Data					
Med	ia	chilled or hot water, glycol, 50# steam				
Flow	characteristic	modified equal percentage				
Actio	on	90° rotation				
		valve open CW, valve closed CCW				
Size	S	1/2", 3/4", 1", 11/4", 11/2", 2", 21/2"				
Туре	of end fitting	SAE NPT (female connections)				
Mate	erials:					
_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 (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 (AP)	

Flow Patterns



- Live-load packing set
- Stainless steel ball & stem
- Blow-out proof stem design

Application

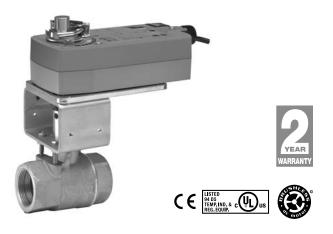
These threaded valves are designed to provide modulating or two position control of hot or chilled water and saturated steam systems under 50 psi.

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

	Valve Nominal Size		Туре	Suitable Return Actuators			
Cv	Inches	DN [mm]	2-way NPT	Spring	Non- Spring		
15	1/2	15	B2050VSS-15	F es	NM Series		
30	3/4	20	B2075VSS-30	L Ser	NN Seri		
43	1	25	B2100VSS-43	S	Mes	Series	
48	11/4	32	B2125VSS-48	Series	Al	Sel	
84	1½	40	B2150VSS-84	AF S	Š	SY	
108	2	50	B2200VSS-108	▼	GM Series		
503	21/2	65	B2250VSS-503		~ S		
370	3	80	B2300VSS-370				



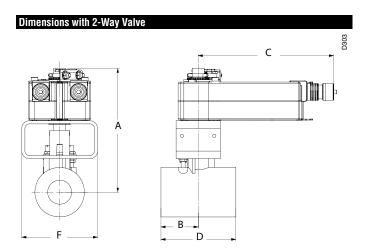


Models

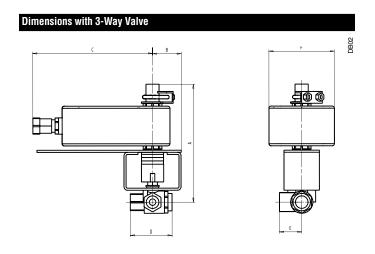
NFB24-X1 NFBUP-S-X1 NFBUP-X1

w/built-in Aux. Switch

Technical Data		
Control		on/off
Power consumption		
NFB24-X1	running	6 W
	holding	2.5 W
NFBUP(-S)-X1	running	6 W
	holding	2.5 W
Transformer sizing		
NFB24-X1		8.5 VA
NFBUP(-S)-X1		9.5 VA
Electrical connection		½" conduit connector
(-S model has 2 cables)	3 ft [1m], 18 GA appliance cables
Electrical protection		120 V actuators double insulated
Overload protection		electronic throughout 0° to 95° rotation
Angle of rotation		95°
Position indication		visual indicator
Running time	control	<75 seconds
	spring	<20 seconds
Ambient temperature		-22° F to 122° F [-30° C to 50° C]
Housing		NEMA 2 / IP54
Agency listings		UL 873, CSA C22.2 No. 24 certified, CE
Noise level		max. 45 dB(A)
NFBUP-S-X1		
Auxiliary switch		2 x SPDT, 3A (0.5A inductive) @ 250V



		Valve No	Dimensions (Inches)					
Valve Body	COP	Inches	DN [mm]	A	В	C	D	F
B2075VS-30	400	3/4	20	7.50	2.00	9.76	3.00	4.60
B2075VS-51	400	3/4	20	7.50	2.00	9.76	3.20	4.60
B2100VS-43	400	1	25	7.81	2.00	9.76	3.40	4.60
B2075VSS-30	1000	3/4	20	7.50	2.00	9.76	3.00	4.60
B2100VSS-43	1000	1	25	7.81	2.00	9.76	3.40	4.60



		Valve No	ninal Size		Dimensions (Inches)				
Valve Body	COP	Inches	DN [mm]	Α	В	C	D	E	F
B315VS	200	1/2	15	7.00	2.00	8.00	3.56	1.88	6.25
B320VS	75	3/4	20	7.00	2.00	8.00	3.56	1.88	6.25



Wiring Diagrams



X INSTALLATION NOTES



Provide overload protection and disconnect as required.



CAUTION Equipment damage!

Actuators may be connected in parallel. Power consumption must be observed.



24V actuators can be powered by 24 VAC/DC.



For end position indication, interlock control, fan startup, etc., (-S) Models: 2 SPDT, 3A (0.5 inductive) @250V, one switch fixed at 10°, one adjustable 10° to 90°.



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.

