



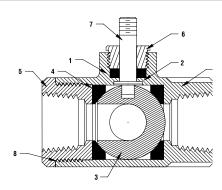
B2...VSS Series, 2-Way, Ball Valve Stainless Steel Body, Ball and Stem





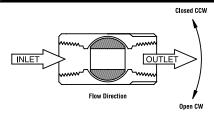


Tech	inical Data					
Media		chilled or hot water, glycol, 50# steam				
Flow	characteristic	modified equal percentage				
Actio	on	90° rotation				
		valve open CW, valve closed CCW				
Size	S	1/2", 3/4", 1", 11/4", 11/2", 2", 21/2"				
Туре	of end fitting	SAE NPT (female connections)				
Mate	erials: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

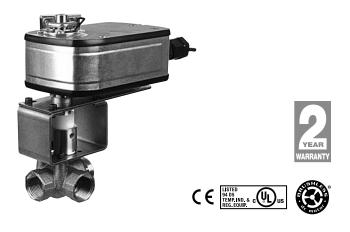
These threaded valves are designed to provide modulating or two position control of hot or chilled water and saturated steam systems under 50 psi.

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				





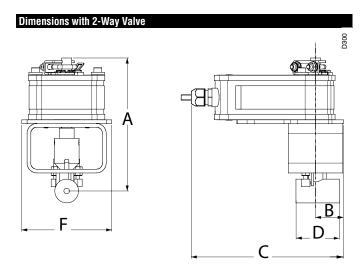
Models

LF24 US LF24-S US w/built-in Aux. Switch LF120 US LF120-S US

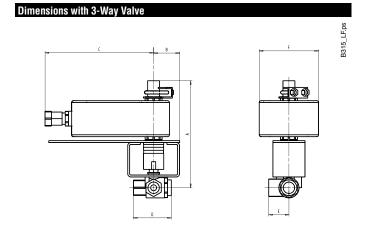
w/built-in Aux. Switch

Technical Data						
Control		on/off, floating point				
Power supply						
LF24(-S) US		24 VAC ± 20% 50/60 Hz				
		24 VDC ± 10%				
LF120(-S) US		120 VAC ± 10% 50/60 Hz				
Power consumption						
LF24(-S) US	running	5 W				
	holding	2.5 W				
LF120(-S) US	running	5.5 W				
	holding	3.5 W				
Transformer sizing						
LF24(-S) US		7 VA, class 2 power source				
LF120(-S) US						
Electrical connection		½" conduit connector				
(-S models have 2 cables)		3 ft [1m], 18 GA appliance cable				
Electrical protection		120V actuators double insulated				
Overload protection		electronic throughout rotation				
Angle of rotation		95°				
Spring return direction		reversible with CW/CCW mounting				
Position indication		visual indicator 0° to 90°				
Running time		<40 to 75 seconds (on-off)				
	spring	<25 sec. @-4°F to 122°F [-20°C to 50°C]				
		<60 sec. @-22°F [-30°C]				
Ambient temperature		-22° F to 122° F [-30° C to 50° C]				
Housing		NEMA 2				
Agency listings†		UL 873, CSA C22.2 No. 24 certified, CE				
Quality standard		ISO 9001				
Noise level		max. 62 dB(A)				

1 x SPDT, 6A (1.5A) @ 250 VAC, UL Listed, adjustable 0° to 95° (double insulated) Auxiliary switch † Rated impulse voltage 800V (4kV for 120V model), Control pollution degree 3, Type of action 1.AA (1.AA.B for -S models)



		Valve No	I	Dimensions (Inches)				
Valve Body	COP	Inches	DN [mm]	Α	В	C	D	F
B2050VS-01	100	1/2"	15	6.75	0.98	7.69	2.20	4.72
B2050VS-02	100	1/2"	15	6.75	0.98	7.69	2.20	4.72
B2050VS-04	100	1/2"	15	6.75	0.98	7.69	2.20	4.72
B2050VS-15	100	1/2"	15	6.75	0.98	7.69	2.20	4.72
B2050VSS-15	1000	1/2"	15	6.75	1.12	7.69	2.30	4.72



		Valve Nor	ninal Size		Dimensions (Inches)				
Valve Body	COP	Inches			В	C	D	Е	F
B315VS	75	1/2"	15	6.50	2.00	8.00	2.30	1.25	4.00

LF...-S US



Wiring Diagrams



C INSTALLATION NOTES



Provide overload protection and disconnect as required.



CAUTION Equipment damage!

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



Actuator may also be powered by 24 VDC.



For end position indication, interlock control, fan startup, etc., LF24-S US and LF120-S US incorporates a built-in auxiliary switch: 1 x SPDT, 6A (1.5A) @ 250 VAC, UL listed, adjustable 0° to 95°.



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.

