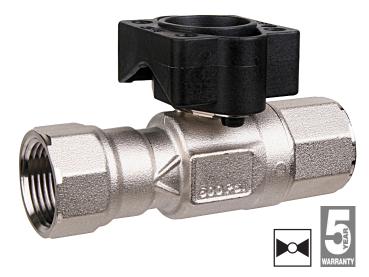
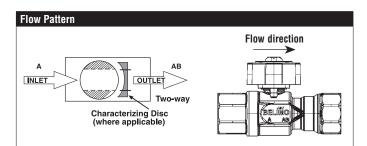
B225HT1160, **1**", **High Temperature CCV** Stainless Steel Ball and Stem





Technical Data	
Technical Data Service	high temperature hot water/low pressure
Service	steam, up to 60% glycol
Flow Characteristic	A-port equal percentage
Controllable Flow Range	75°
Size [mm]	1" [25]
End Fitting	NPT female ends
Body	nickel plated brass (DZR) P-CuZn35Pb2
Ball	stainless steel
Stem	stainless steel
Stem Packing	Vition O-ring
Seat	FTFF
Seat O-ring	EPDM (lubricated)
Characterized Disc	FTFF
Body Pressure Rating [psi]	600
Max Inlet Pressure (Steam)	15 psi
	•
Media Temperature Range (Water)	60°F to 266°F [16°C to 130°C]
Media Temperature Range	250°F [120°C]
(Steam)	
Maximum Differential Pressure	15 psi
(Steam)	
Max Differential Pressure (Water)	60 psi partially open ball, 116 psi full open
Close-Off Pressure	200 psi
Cv	11.6
Weight	1.8 lb [0.8 kg]
Leakage	0%
Servicing	maintenance free



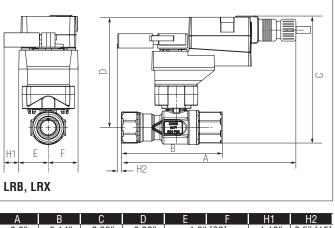
Application

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 to fit in compact areas where on/off, floating point and modulating control is required using 24 VAC.

Suitable Actuators			
	Non-Spring	Spring	
B225HT1160	LR	LF	

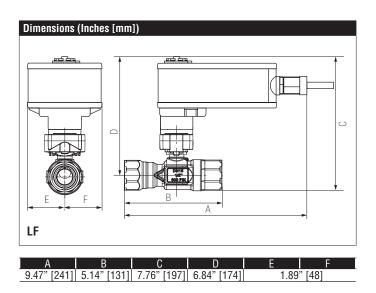
Dimensions (Inches [mm])



A	В	C	D	E	F	H1	H2
8.6"	5.14"	6.89"	6.36"	1.3"	[33]	1.18"	0.5" [15]
[218]	[131]	[175]	[162]			[30]	



B225HT1160, 1", High Temperature CCV Stainless Steel Ball and Stem



LF120-S US, Valve Actuator On/Off, Spring Return, 120 VAC, Auxiliary Switch





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Technical Data	
Power Supply	120 VAC, ±10%, 50/60 Hz
Power Consumption Running	5.5 W
Power Consumption Holding	3.5 W
Transformer Sizing	7.5 VA
Electrical Connection	(2) 3ft [1m], 18 GA appliance cables with 1/2" conduit connectors
Overload Protection	electronic throughout 0° to 95° rotation
Operating Range Y	on/off
Angle of Rotation	90°
Direction of Rotation (Motor)	reversible with built-in switch
Direction of Rotation (Fail-Safe)	reversible with CW/CCW mounting
Position Indication	visual indicator, 0° to 95° (0° is full spring return position)
Running Time (Motor)	4075 sec
Running Time (Fail-Safe)	<25 sec @ -4°F to 122°F [-20°C to 50°C], <60 sec @ -22°F [-30°C]
Ambient Temperature Range	-22122 °F [-3050 °C]
Storage Temperature Range	-40176 °F [-4080 °C]
Housing	IP54, NEMA 2
Agency Listings†	cULus acc. To UL 873 and CAN/CSA C22.2 No. 24-93
Noise Level (Motor)	<50 dB (A)
Noise Level (Fail-Safe)	<62 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001
Auxiliary switch	1 x SPDT, 3A resistive (0.5A inductive) @ 250 VAC, adjustable 0° to 95°
+Bated Impulse Voltage 800V Type of action	on 1 AA. Control Pollution Degree 3

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3



Wiring Diagrams

🔀 INSTALLATION NOTES

A Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

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One built-in auxiliary switch (1x SPDT), for end position indication, interlock control, fan startup, etc.

Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

Meets cULus 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.

