# **Technical data sheet**





Type overview	
Туре	DN
B225HT1856	25

<b>уре</b> 3225HT1856			25
echnical data			
Fu	unctional data	Valve size [mm]	1" [25]
		Fluid	high temperature hot water/low pressure steam, up to 60% glycol
		Fluid Temp Range (water)	60266°F [16130°C]
		Fluid Temp Range (steam)	250°F [120°C]
		Body Pressure Rating	600 psi
		Close-off pressure Δps	200 psi
		Flow characteristic	A-port equal percentage
		Servicing	maintenance-free
		Max Differential Pressure (Steam)	15 psi
		Flow Pattern	2-way
		Leakage rate	0%
		Controllable flow range	75°
		Cv	18.56
		Maximum Inlet Pressure (Steam)	15 psi
	Materials	Valve body	Nickel-plated brass (DZR) P-CuZn35Pb2
		Stem	stainless steel
		Stem seal	Vition O-ring
		Seat	ETFE
		Characterized disc	ETFE
		Pipe connection	NPT
		O-ring	EPDM (lubricated)
		Ball	stainless steel
Suita	able actuators	Non-Spring	LRB(X)
	Spring	LF	
		· -	

## Safety notes



• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

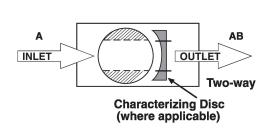


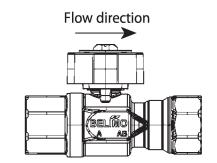
# Product features

## 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 reheat 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.

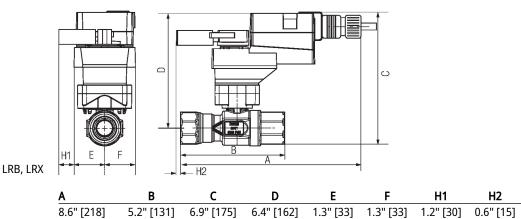
#### Flow/Mounting details

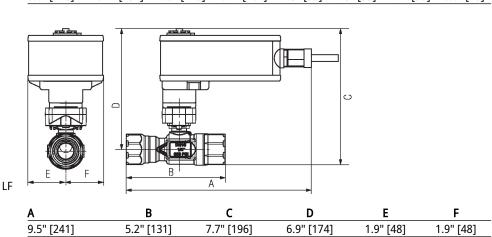




#### **Dimensions**

Туре	DN	Weight
B225HT1856	25	1.76 lb [0.80 kg]







# Technical data sheet LF120-S US



Technical data		
Electrical data	Nominal voltage	AC 120 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 96132 V
	Power consumption in operation	5.5 W
	Power consumption in rest position	3.5 W
	Transformer sizing	7.5 VA
	Auxiliary switch	1 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, adjustable 095°
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V
	Electrical Connection	(2) 18 GA appliance cables, 1 m, with 1/2" conduit connectors
	Overload Protection	electronic throughout 095° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Angle of rotation	90°
	Running Time (Motor)	75 s / 90°
	Running time fail-safe	<25 s @ -4122°F [-2050°C], <60 s @ -22°F [-30°C]
	Noise level, motor	50 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical
Safety data	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	Agency Listing	cULus acc. To UL 873 and CAN/CSA C22.2 No. 24-93
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	3.8 lb [1.7 kg]
Materials	Housing material	galvanized steel

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



#### **Electrical installation**

## **X** INSTALLATION NOTES

A Actuators with appliance cables are numbered.

 $\sum$  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.

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.

## Wiring diagrams

On/Off

