

Ball Valve (VS), 1/2", 2-way, Cv 4





# Type overview

Туре	DN
B2050VS-04	15

# **Technical data**

Functional data	Valve size [mm]	0.5" [15]		
	Fluid	chilled or hot water, up to 60% glycol, steam		
	Fluid Temp Range (water)	-30138°C [-22280°F]		
	Body Pressure Rating	600 psig WOG		
	Close-off pressure ∆ps	600 psi		
	Flow characteristic	modified equal percentage		
	Leakage rate	ANSI Class VI		
	Pipe connection	Internal thread		
		NPT (female)		
	Max Differential Pressure (Steam)	35 psi		
	Flow Pattern	2-way		
	Controllable flow range	90° rotation		
	Cv	4		
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]		
	Maximum Velocity	15 FPS		
Materials	Valve body	Bronze B584-C84400		
	Housing seal	PTFE		
	Stem	316 stainless steel		
	Stem seal	RPTFE		
	Seat	RPTFE		
	Lock nut	stainless steel		
	Retainer	B16 Brass		
	Ball	316 stainless steel		
Suitable actuators	Non Fail-Safe	LMB(X)		
		GRCB(X)		
		GRB(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 re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

This valve is designed with MFT functionally which facilitates the use of various control input. Up to 35 psi steam

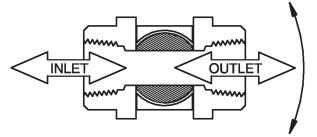
1/2" - 2" 600 PSIG WOG, Cold Non-Shock

Federal Specification: WW-V-35C, Type II

Composition: BZ

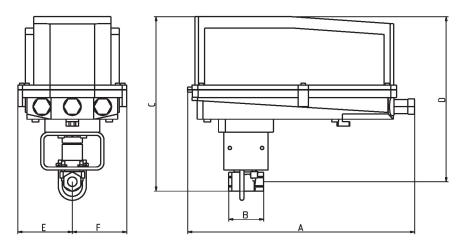
Style: 3

### Flow/Mounting details



### Dimensions

Туре	DN	Weight
B2050VS-04	15	0.52 lb [0.24 kg]



### B2050VS..+GRC..N4

Α	В	с	D	Е	F
14.1" [358]	2.2" [56]	10.9" [277]	10.3" [262]	3.4" [86]	3.4" [86]



On/Off, Spring return, 120 V

# LF120 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	
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" NPT conduit connector	
	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	[]	



LF120 l

### **Technical data**

Materials Housing material galvanized steel

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

### **Electrical installation**

# 🔀 INSTALLATION NOTES

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.



# 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

