

Technical data sheet

B2050VS-04





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)	-22280°F [-30138°C]		
	Body Pressure Rating	600 psig WOG		
	Close-off pressure Δps	600 psi		
	Flow characteristic	modified equal percentage		
	Max Differential Pressure (Steam)	35 psi		
	Flow Pattern	2-way		
	Leakage rate	ANSI Class VI		
	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		
	Pipe connection	NPT		
	Retainer	B16 Brass		
	Ball	316 stainless steel		
Suitable actuators	Non-Spring	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



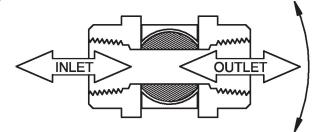
ApplicationThis valve is typically used in air handling units on heating or cooling coils, and fan coil unit
heating or cooling coils. Some other common applications include Unit Ventilators, VAV Box re-
heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.
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

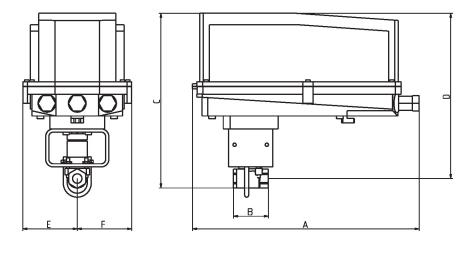
Style: 3

Flow/Mounting details



Dimensions

Туре	DN	Weight	
B2050VS-04	15	0.44 lb [0.20 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]



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LF24 US



Technical data

Electrical data	Nominal voltage	AC/DC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V		
	Power consumption in operation	5 W		
	Power consumption in rest position	2.5 W		
	Transformer sizing	7 VA		
	Electrical Connection	18 GA appliance cable, 1 m, with 1/2" condui 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	Power source UL	Class 2 Supply		
	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	3.2 lb [1.5 kg]		
Materials	Housing material	galvanized steel		

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

Electrical installation



Actuators with appliance cables are numbered.



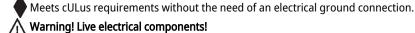
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A Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

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



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.

