

Technical data sheet

B219VS





Type overview

Туре	DN
B219VS	20

Technical data

Functional data	Valve size [mm]	0.75" [20]		
	Fluid	chilled or hot water, up to 60% glycol, steam		
	Fluid Temp Range (water)	-22280°F [-30138°C]		
	Body Pressure Rating	600 psig WOG psi		
	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	30		
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]		
	Maximum Velocity	15 FPS		
Materials	Valve body	Bronze B584-C84400		
	Housing seal	PTFE		
	Spindle	316 stainless steel		
	Spindle seal	RPTFE		
	Seat	RPTFE		
	Lock nut	stainless steel		
	Pipe connection	NPT female ends		
	Retainer	B16 Brass		
	Ball	316 stainless steel		
uitable actuators	Non-Spring	NMB(X) GRCB(X)		
	Spring	GRB(X) NF		
	Spring	INF		

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

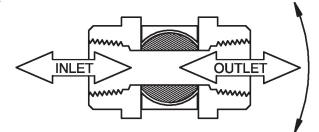


ApplicationThis valve is typically used in air handling units on heating or cooling coils, and fan coil unit
heating or cooling coils. Some other common applications include Unit Ventilators, VAV Box re-
heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.
This valve is designed with MFT functionally which facilitates the use of various control input.
Up to 35 psi steam

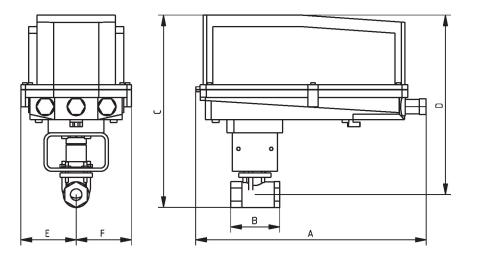
1/2" - 2" 600 PSIG WOG, Cold Non-Shock Federal Specification: WW-V-35C, Type II Composition: BZ

Style: 3

Flow/Mounting details



Dimensions	
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B219VS+GRC..N4

A	В	С	D	Е	F
14.1" [358]	3.0" [76]	11.8" [300]	11.0" [279]	3.4" [86]	3.4" [86]



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Technical data

Electrical data	Nominal voltage	AC 24240 V / DC 24125 V			
	Nominal voltage frequency	50/60 Hz			
	Power consumption in operation	6 W			
	Power consumption in rest position	2.5 W			
	Power consumption for wire sizing	9.5 VA			
	Transformer sizing	6 VA @ AC 24 V (class 2 power source), 6.5 VA @ AC 120 V, 9.5 VA @ AC 240 V			
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector			
	Overload Protection	electronic throughout 095° rotation			
Functional data	Direction of motion motor	selectable by ccw/cw mounting			
	Direction of motion fail-safe	reversible with cw/ccw mounting			
	Manual override	5 mm hex crank (3/16" Allen), supplied			
	Angle of rotation	95°			
	Running Time (Motor)	75 s / 90°			
	Running time fail-safe	<20 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 UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC			
	Quality Standard	ISO 9001			
	Ambient temperature	-22122°F [-3050°C]			
	Storage temperature	-40176°F [-4080°C]			
	Ambient humidity	Max. 95% RH, non-condensing			
	Servicing	maintenance-free			
	Housing material	Galvanized steel and plastic housing			

Electrical installation

Marning! Live electrical components!



Technical data sheet

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

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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.



A Actuators with appliance cables are numbered.

UP Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.

 \bigwedge Provide overload protection and disconnect as required.

Meets cULus requirements without the need of an electrical ground connection.

