

#### Bronze Body, Stainless Steel Ball and Stem





Type overview	
Туре	DN
B219VS	20

# **Technical data**

Functional data	Valve size [mm]	
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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	
Non-Spring	NMB(X)	
	GRCB(X)	
	GPR(X)	

# Suitable actuators

Non-spring	INIVID(A)
	GRCB(X)
	GRB(X)
Spring	NF

# 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 with MFT functionally which facilitates the use of various control input.

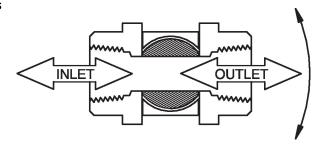
Up to 35 psi steam

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

Composition: BZ

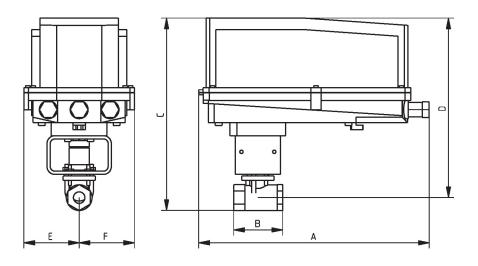
Style: 3

# Flow/Mounting details



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# B219VS+GRC..N4

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





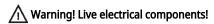


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Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	6 W
	Power consumption in rest position	2.5 W
	Power consumption for wire sizing	8.5 VA
	Transformer sizing	8.5 VA (class 2 power source)
	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	90°
	Angle of rotation note	adjustable with mechanical stop
	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

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

# **Electrical installation**



Housing material

Materials

Galvanized steel and plastic housing

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.

# X INSTALLATION NOTES

A Actuators with appliance cables are numbered.

Nerovide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

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.

#### Wiring diagrams On/Off

