

#### 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.

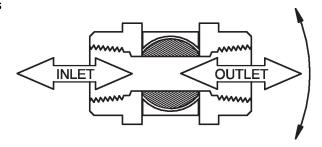
Up to 35 psi steam

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

Composition: BZ

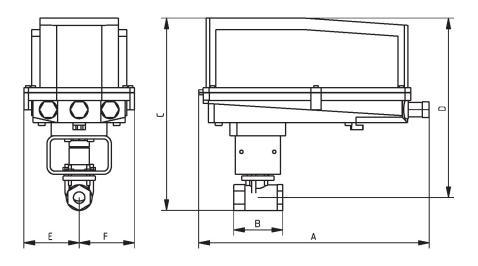
Style: 3

# 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]

On/Off, Floating Point, Non-Spring Return, AC 100...240 V





5-year warranty



# **Technical data**

Electrical data	Nominal voltage	AC 100240 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	6 W
	Power consumption in rest position	2 W
	Transformer sizing	11 VA (class 2 power source)
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector
	Overload Protection	electronic thoughout 090° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Manual override	under cover
	Angle of rotation	90°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	35 s / 90°
	Running time motor note	constant, independent of load
	Noise level, motor	45 dB(A)
	Position indication	Mechanically, 520 mm stroke
Safety data	Degree of protection IEC/EN	IP66/67
	Degree of protection NEMA/UL	NEMA 4X
	Enclosure	UL Enclosure Type 4X
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Ambient temperature note	-4050°C for actuator with integrated heating
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 100% RH
	Servicing	maintenance-free
Materials	Housing material	Die cast aluminium and plastic casing

**Footnotes** †Rated Impulse Voltage 2.5kV, Type of Action 1.AA, Control Pollution Degree 3.

# **Accessories**

Factory add-on option only	Description	Туре
	Heater, with adjustable thermostat	N4 Heater Add-on
		24V (-H)
	Heater, with adjustable thermostat	N4 Heater Add-on
		230V (-Y)



#### **Electrical installation**

# **X** INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

Actuators may be connected in parallel. Power consumption and input impedance must be observed.

V

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

