

Bronze Body, Stainless Steel Ball and Stem





DN
20

Technical data

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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 ∆ps	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	51
Maximum Inlet Pressure (Steam)	35 psi [241 kPa]
Maximum Velocity	15 FPS
Well as least a	D DE0.4 C0.4400

Materials

maximam velocity	13.1.3	
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)	
	GRB(X)	

Safety notes



Spring

Suitable actuators

 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

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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.

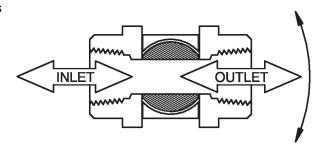
Up to 35 psi steam

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

Composition: BZ

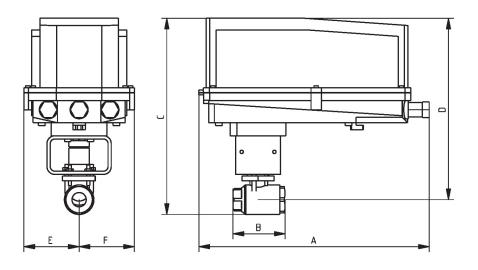
Style: 3

Flow/Mounting details



Dimensions

Туре	DN
B220VS	20



B220VS+GRC..N4

A	В	С	D	E	F
14.1" [358]	3.2" [82]	12.0" [305]	11.1" [282]	3.4" [86]	3.4" [86]

B220VS







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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		

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

Electrical installation

Marning! Live electrical components!



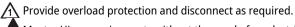
Technical data sheet

NFBUP-X1

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.

INSTALLATION NOTES

- (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.



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

