

Type overview

Bronze Body, Stainless Steel Ball and Stem





ype		DN
32050VS-15		15
echnical 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	15
	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

Safety notes



Suitable actuators

Pipe connection

Retainer

Non-Spring

Spring

Ball

 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

NPT female ends

316 stainless steel

B16 Brass

LMB(X) GRCB(X) GRB(X)

LF



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.

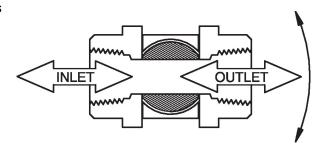
Up to 35 psi steam

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

Composition: BZ

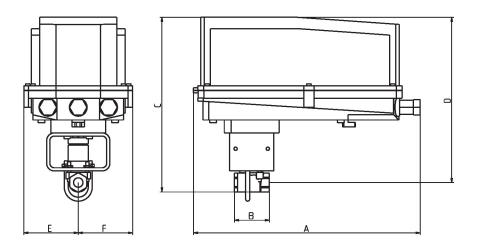
Style: 3

Flow/Mounting details



Dimensions

Туре	DN
B2050VS-15	15



B2050VS..+GRC..N4

Α	В	С	D	E	F
14.1" [358]	2.2" [56]	10.9" [277]	10.3" [261]	3.4" [86]	3.4" [86]



On/Off, Floating Point, Spring Return, 24 V







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Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	1.5 W
	Power consumption in rest position	0.2 W
	Transformer sizing	2.5 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable with 1/2" conduit connector, degree of protection NEMA 2 / IP54, 3 ft [1 m] 10 ft [3 m] and 16ft [5 m]
	Overload Protection	electronic throughout 095° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Manual override	external push button
	Angle of rotation	Max. 95°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	90 s / 90°
	Running time motor note	constant, independent of load
	Running time motor variable	35, 45, 60, 150 s
	Noise level, motor	35 dB(A)
	Position indication	Mechanically, 3065 mm stroke
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
Materials	Housing material	Galvanized steel and plastic housing

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



Accessories

Description	Туре	
Battery backup system, for non-spring return models	NSV24 US	
Battery, 12 V, 1.2 Ah (two required)	NSV-BAT	
Feedback potentiometer 140 Ω add-on, grey	P140A GR	
Feedback potentiometer 500 Ω add-on, grey	P500A GR	
Feedback potentiometer 1 k Ω add-on, grey	P1000A GR	
Feedback potentiometer 2.8 kΩ add-on, grey	P2800A GR	
Feedback potentiometer 5 k Ω add-on, grey	P5000A GR	
Feedback potentiometer 10 kΩ add-on, grey	P10000A GR	
Auxiliary switch 1 x SPDT add-on	S1A	
Auxiliary switch 2 x SPDT add-on	S2A	

Electrical installation

X INSTALLATION NOTES

Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

🐧 Actuators may also be powered by DC 24 V.

Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

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

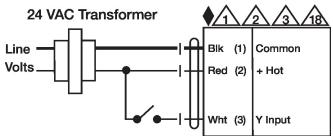
Meets cULus requirements without the need of an electrical ground connection.

Warning! Live electrical components!

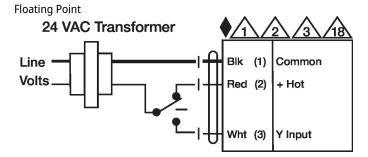
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Wiring diagrams





Electrical accessories



24 VAC Transformer

Line Volts

Hot Com

Red (2) + Hot

Wht (3) Y input

