

# **Technical data sheet**

### B232VS





# Type overview

Туре	DN
B232VS	32

### **Technical data**

Functional data	Valve size [mm]	1.25" [32]		
	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	48		
	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	B584-C84400 bronze		
	Ball	316 stainless steel		
Suitable actuators	Non-Spring	AMB(X)		
		GRCB(X)		
		GRB(X)		
	Spring	AF		

### 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

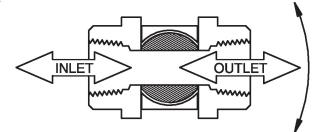


ApplicationThis valve is typically used in air handling units on heating or cooling coils, and fan coil unit<br/>heating or cooling coils. Some other common applications include Unit Ventilators, VAV Box re-<br/>heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable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

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

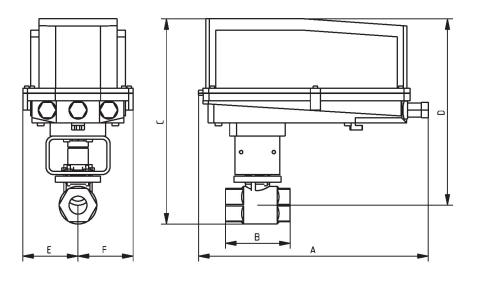
Style: 3

#### Flow/Mounting details



# Dimensions

Туре	DN
B232VS	32



#### B232VS+GRC..N4

Α	В	С	D	Е	F
14.1" [358]	4.0" [101]	12.6" [320]	11.4" [290]	3.4" [86]	3.4" [86]



Modulating, Spring Return, 24 V, Multi-Function Technology® **Technical data sheet** 

# AFX24-MFT-X1

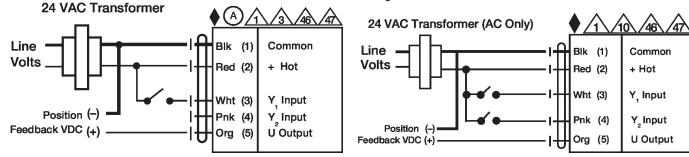




# Technical data

Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	7.5 W	
	Power consumption in rest position	3 W	
	Transformer sizing	10 VA (class 2 power source)	
	Electrical Connection	18 GA appliance cable, 3ft [1m] 10ft [3m] and 16ft [5m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54	
	Overload Protection	electronic throughout 095° rotation	
Functional data	Operating range Y	210 V	
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)	
	Operating range Y variable	Start point 0.530 V	
		End point 2.532 V	
	Options positioning signal	variable (VDC, PWM, on/off, floating point)	
	Position feedback U	210 V	
	Position feedback U note	Max. 0.5 mA	
	Position feedback U variable	VDC variable	
	Direction of motion motor	selectable with switch 0/1	
	Direction of motion fail-safe	reversible with cw/ccw mounting	
	Manual override	5 mm hex crank (3/16" Allen), supplied	
	Angle of rotation	95°	
	Angle of rotation note	adjustable with mechanical end stop, 3595°	
	Running Time (Motor)	150 s / 90°	
	Running time motor variable	70220 s	
	Running time fail-safe	<20 s	
	Override control	MIN (minimum position) = 0%	
		MID (intermediate position) = 50%	
		MAX (maximum position) = 100%	
	Noise level, motor	40 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 Listed to UL 2043 - suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC	
	Quality Standard	ISO 9001	

BELIMO		Technical data sheet		AFX24-MFT-X1
	Safety data	Ambient temperature	-22122°F [-3050°C]	
	-	Storage temperature	-40176°F [-4080°C]	
		Ambient humidity	Max. 95% RH, non-conde	ensing
		Servicing	maintenance-free	
	Materials	Housing material Galvanized steel and plastic housing		stic housing
	Footnotes	<b>Footnotes</b> *Variable when configured with MFT options.		
Accessories				
	Electrical accessories	Description		Туре
		Service Tool, with ZIP-USB function, communicative Belimo actuators, VA devices	1 5	ZTH US
Electrical installation	on			
		to work with live electrical component who has been properly trained in hat Failure to follow all electrical safety could result in death or serious injust Meets cULus requirements without Actuators with appliance cables are Provide overload protection and dis Actuators may also be powered by I Only connect common to negative ( $\alpha$ A 500 $\Omega$ resistor (ZG-R01) converts the Control signal may be pulsed from electric For triac sink the Common connection connection of the controller. Position actuator internal common reference IN4004 or IN4007 diode. (IN4007 su Actuators may be controlled in para	the need of an electrical ground conr numbered. connect as required. -) leg of control circuits. he 420 mA control signal to 210 V either the Hot (Source) or Common (S on from the actuator must be connec n feedback cannot be used with a tria e is not compatible. upplied, Belimo part number 40155).	ian or other individua rform these tasks. ctrical components nection. ink) 24 V line. ted to the Hot ac sink controller; the
<b>Wiring diagrams</b> On/Off		Floating Poi	int	
24 VAC Tra	ansformer	$\supset \land \land \land \land$		
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