

B224VS





Type overview

Туре	DN
B224VS	25

Technical data

Functional data	Valve size [mm]	1" [25]
	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	43
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]
	Maximum Velocity	15 FPS
Materials	Valve body	Bronze B584-C84400
	Housing seal	PTFE
	Stem	316 stainless steel
	Stem seal	RPTFE
	Seat	RPTFE
	Lock nut	stainless steel
	Pipe connection	NPT
	Retainer	B16 Brass
	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



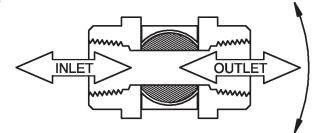
ApplicationThis valve is typically used in air handling units on heating or cooling coils, and fan coil unit
heating or cooling coils. Some other common applications include Unit Ventilators, VAV Box re-
heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.
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

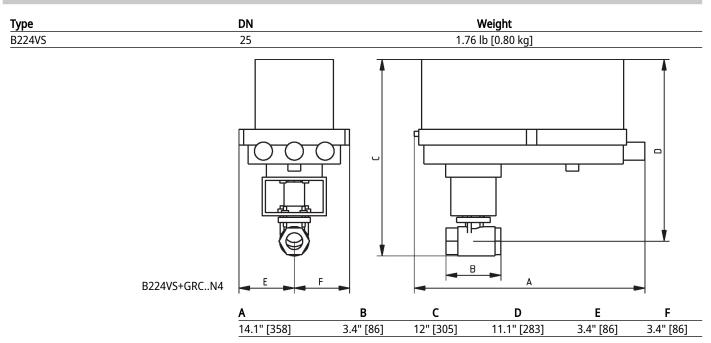
Composition: BZ

Style: 3

Flow/Mounting details



Dimensions





AFX24-MFT95-X1

Modulating, Spring Return, 24 V, 0 to 135 Ω Input





Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	7.5 W
	Power consumption in rest position	3 W
	Transformer sizing	10 VA
	Electrical Connection	18 GA appliance cable, 1 m, 3 m or 5 m, with 1/2" conduit connector, degree of protection NEMA 2 / IP54
	Overload Protection	electronic throughout 095° rotation
Functional data	Operating range Y	0135 Ω
	Operating range Y note	Honeywell Electronic Series 90, input 0135 Ω
	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
	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	Power source UL	Class 2 Supply
	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
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing

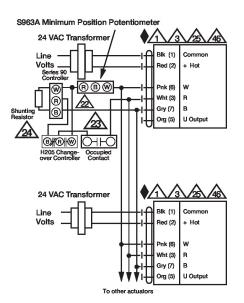


AFX24-MFT95-X1

BELIMO	Technical data sheet	AFX24-MFT95-X1
Safety data	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	4.6 lb [2.1 kg]
Materials	Housing material	Galvanized steel and plastic housing
Footnotes	*Variable when configured with MFT	Γoptions.
Accessories		
Electrical accessories	Description	Туре
	Service Tool, with ZIP-USB function, communicative Belimo actuators, VA devices	
Electrical installation		
Wiring diagrams High Limit Control 24 VAC Transformer Line Volts Wiring diagrams Jave Control Series 90 Series 90 low limit control - 280 W Series 90 low limit control - 280 W Series 90 low limit control - 280 W	to work with live electrical component who has been properly trained in has Failure to follow all electrical safety could result in death or serious injur Meets cULus requirements without Provide overload protection and dis Actuators may also be powered by D Actuators and controller must have Consult controller instruction data f Resistor value depends on the type used for one actuator. Honeywell® To reverse control rotation, use the Actuators may be controlled in para Low Limit C 24 V Common Hot + W R B U Output Series 90 Controller Series 90 Controller	g and troubleshooting of this product, it may be necessary ents. Have a qualified licensed electrician or other individual andling live electrical components perform these tasks. precautions when exposed to live electrical components ry. the need of an electrical ground connection. connect as required. DC 24 V. separate transformers. for more detailed information. of controller and the number of actuators. No resistor is resistor kits may also be used. reversing switch. Illel. Current draw and input impedance must be observed. ontrol AC Transformer V W (1) W (2) W (1) W (2) W (2) W (1) W (3) W (4) W (4) W (3) W (7) W (6) W (7) W (7
Switch A Switch B Demper Position Output Demper Open Using of the control open of the damper is dised with no signal at were it.	Rec (R) Hot + No. of exclusions Resistant Price Price (W) W 2 140 W Vint (W) R 3 71.5V Gray (7) B 4 47.5V Gray (6) U Output 5 37.5V Resistor Kit No. ZG- Resistor Kit No. ZG-	N 223 Pik (8) W N Wint (8) R N Gay (7) B V V Gay (7)



Multiple Actuators with Minimum Position Potentiometer



W973, W7100 and T775 24 VAC T ଆଭାତ 0*0 neywell T675A ming Warmup ®. A Line W973 and W7100 24 VAC Tr :1]]= Line Volts ing d Honeywell T6 A 24 VAC Tr

Multiple Actuators Used with