

# **Technical data sheet**

## B225VS





# Type overview

Туре	DN
B225VS	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	68		
	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



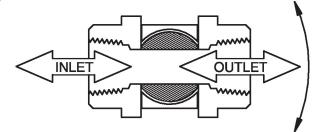
ApplicationThis valve is typically used in air handling units on heating or cooling coils, and fan coil unit<br/>heating or cooling coils. Some other common applications include Unit Ventilators, VAV Box re-<br/>heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable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

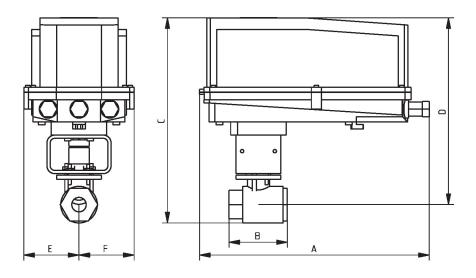
Style: 3

### Flow/Mounting details



### Dimensions

Туре	DN	Weight	
B225VS	25	3.53 lb [1.6 kg]	



### B225VS+GRC..N4

A	В	С	D	Е	F
14.1" [358]	3.6" [92]	12.6" [320]	11.5" [292]	3.4" [86]	3.4" [86]



Modulating, Non-Spring Return, 24 V, 135  $\Omega$  Input



# AMX24-MFT95-X1





# **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	3.5 W	
	Power consumption in rest position	1.3 W	
	Electrical Connection	18 GA appliance cable, 1 m, with 1/2" conduit connector	
	Overload Protection	electronic throughout 095° rotation	
Functional data	Operating range Y	0135 Ω	
	Operating range Y note	Honeywell Electronic Series 90, input 0135 $\Omega$	
	Input Impedance	600 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	external push button	
	Angle of rotation	Max. 95°	
	Angle of rotation note	adjustable with mechanical stop	
	Running Time (Motor)	150 s / 90°	
	Running time motor variable	90350 s	
	Noise level, motor	45 dB(A)	
	Position indication	Mechanically, 3065 mm stroke	
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 and 2014/35/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	
	Ambient temperature	-22122°F [-3050°C]	
	Storage temperature	-40176°F [-4080°C]	
	Servicing	maintenance-free	
Weight	Weight	2.2 lb [1.0 kg]	



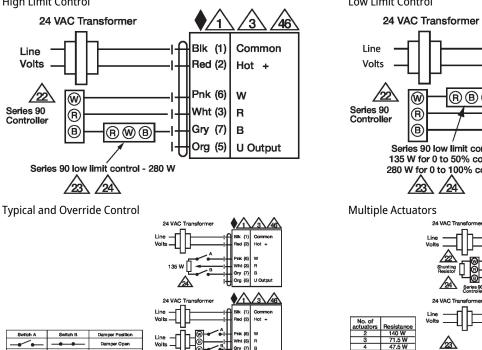
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	Materials	Housing material	Galvanized steel and pla	astic housing
	Footnotes	†Rated Impulse Voltage 800V, Ty	ype action 1, Control Pollution Degree 3.	
Accessories				
	Electrical accessories	Description		Туре
		Battery backup system, for non- Battery, 12 V, 1.2 Ah (two requir Service Tool, with ZIP-USB funct communicative Belimo actuator devices	ed)	NSV24 US NSV-BAT ZTH US
Electrical installation	n			
		Resistor value depends on the t used for one actuator. Honeywe To reverse control rotation, use Actuators may be controlled in Meets cULus requirements with Warning! Live electrical compor During installation, testing, serv to work with live electrical comp who has been properly trained	by DC 24 V. have separate transformers. ata for more detailed information. ype of controller and the number of actu- ell® resistor kits may also be used. the reversing switch. parallel. Current draw and input impeda yout the need of an electrical ground cor	nce must be observed. nection. ct, it may be necessary ician or other individual erform these tasks.

could result in death or serious injury.

# Wiring diagrams

High Limit Control

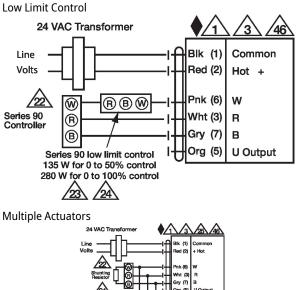


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A

Damper Circ

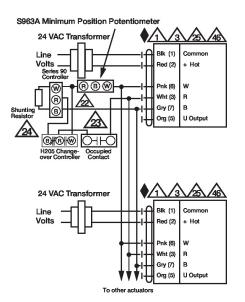
rotation switch is set so that the fail safe position n of the damper is closed with no signal at wire R.





# Technical data sheet

Multiple Actuators with Minimum Position Potentiometer



W973, W7100 and T775 24 VAC T 906 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