

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

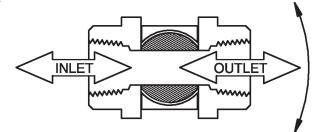


ApplicationThis valve is typically used in air handling units on heating or cooling coils, and fan coil unit
heating or cooling coils. Some other common applications include Unit Ventilators, VAV Box re-
heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.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

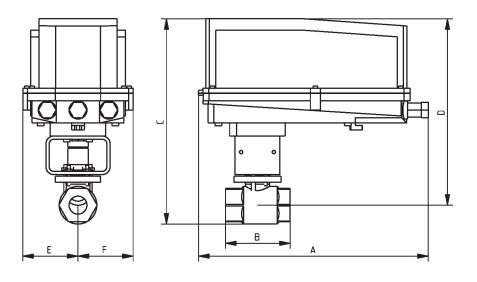
Style: 3

Flow/Mounting details



Dimensions

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, Non-Spring Return, 24 V, 135 Ω Input



AMX24-MFT95-X1





Technical data

Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	3.5 W	
	Power consumption in rest position	1.3 W	
	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	Operating range Y	0135 Ω	
	Operating range Y note	Honeywell Electronic Series 90, input 0135 Ω	
	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	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 action 1, Control Pollution Degree 3.



Electrical accessories	Description	Туре
	Battery backup system, for non-spring return models	NSV24 US
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
	Service Tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US

Electrical installation

X INSTALLATION NOTES

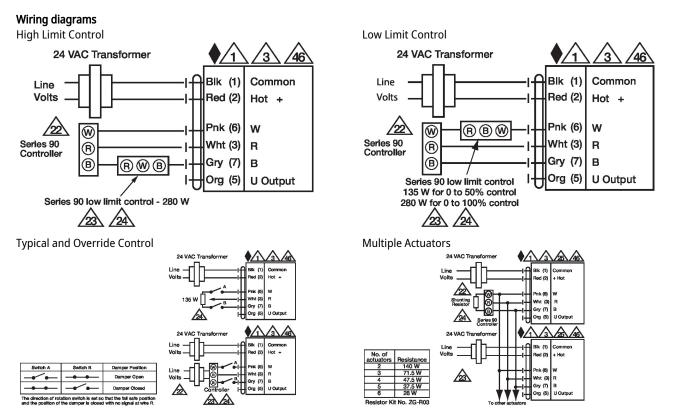
- \bigwedge Provide overload protection and disconnect as required.
- Actuators may also be powered by DC 24 V.
- $\frac{1}{22}$ Actuators and controller must have separate transformers.
- $\frac{1}{23}$ Consult controller instruction data for more detailed information.
- $\frac{1}{24}$ Resistor value depends on the type of controller and the number of actuators. No resistor is
 - used for one actuator. Honeywell® resistor kits may also be used.
- $\frac{1}{25}$ To reverse control rotation, use the reversing switch.

Actuators may be controlled in parallel. Current draw and input impedance must be observed.

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

Marning! Live electrical components!

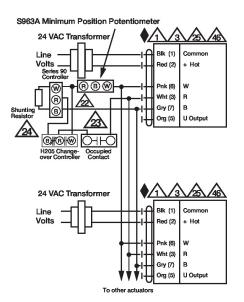
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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





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