

Technical data sheet

B239VS





Type overview

Туре	DN
B239VS	40

Technical data

Functional data	Valve size [mm]	1.5" [40]		
	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 ∆ps	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	84		
	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	GMB(X)		
		PRB(X)		
		GRCB(X)		
		GRB(X)		
	Spring	AF		
	Electrical fail-safe	PKRB(X)		

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

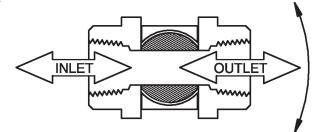


ApplicationThis valve is typically used in air handling units on heating or cooling coils, and fan coil unit
heating or cooling coils. Some other common applications include Unit Ventilators, VAV Box re-
heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.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

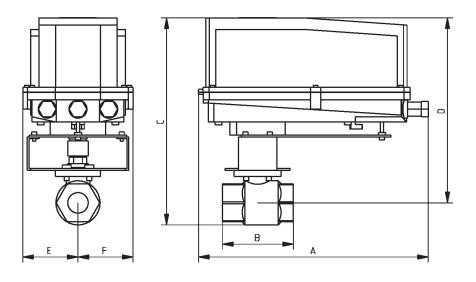
Style: 3

Flow/Mounting details



Dimensions

Туре	DN
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B239VS+GRC..N4

Α	В	С	D	Е	F
11.7" [297.5]	4.4" [112]	9.7" [247]	7.7" [196]	2.3" [58]	2.3" [58]



On/Off, Floating Point, Electrical Fail-Safe, 24 V

Technical data sheet

GKB24-3-X1





Technical data

Electrical data	Nominal voltage	AC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	11 W		
	Power consumption in rest position	3W		
	Power consumption for wire sizing	21 VA		
	Transformer sizing	21 VA (class 2 power source)		
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54		
	Overload Protection	electronic throughout 095° rotation		
Functional data	Bridging time (PF)	2 s		
	Pre-charging time	520 s		
	Direction of motion motor	selectable with switch 0/1		
	Direction of motion fail-safe	reversible with switch		
	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 note	constant, independent of load		
	Running time fail-safe	<35 s		
	Noise level, motor	52 dB(A)		
	Noise level, fail-safe	61 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, Control Pollution Degree 3

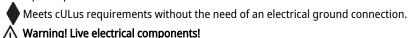


X INSTALLATION NOTES

 \bigwedge Provide overload protection and disconnect as required.

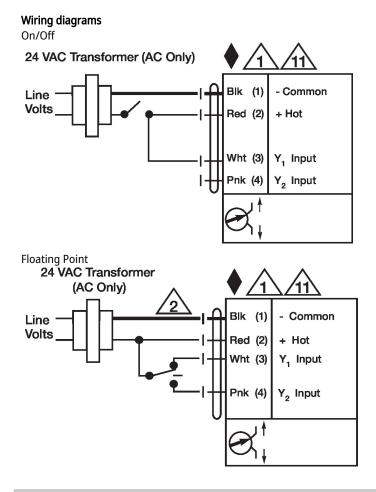
Actuators may be connected in parallel. Power consumption and input impedance must be B observed.

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



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.



Installation notes

Negative torque

SY2~3 Replacement Handwheel