

G325B-L



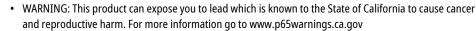




Technical data

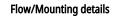
Functional data	Valve Size	1" [25] chilled or hot water, up to 60% glycol			
	Fluid				
	Fluid Temp Range (water)	20280°F [-7138°C]			
	Body Pressure Rating	ANSI Class 250, up to 400 psi below 150°F			
	Servicing	repack kits available			
	Rangeability Sv	A-port 100:1, B-port 50:1			
	Flow Pattern	3-way Mixing/Diverting			
	Leakage rate	ANSI Class VI			
	Controllable flow range	stem up - open B – AB			
	Cv	14			
	ANSI Class	250			
	Body pressure rating note	up to 400 psi below 150°F			
Materials	Valve plug	brass			
	Seat	Bronze			
	End fitting	NPT female ends			
Suitable actuators	Non-Spring	SVB(X)			
	Electronic fail-safe	SVKB(X)			

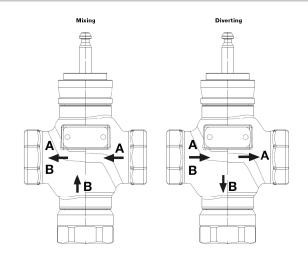
Safety notes



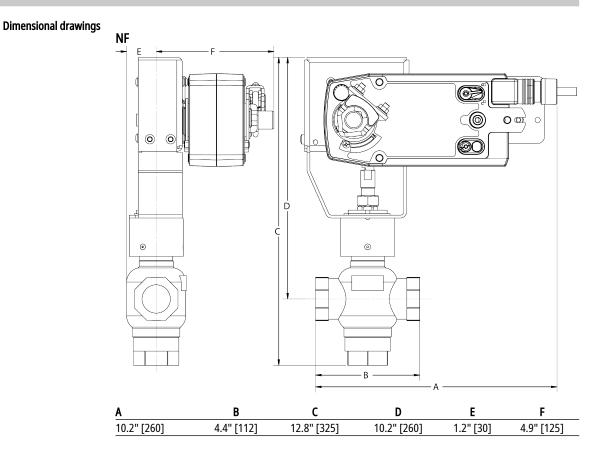
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The valve does not contain any parts that can be replaced or repaired by the user.
- When determining the flow rate characteristic of controlled devices, the recognised directives must be observed.



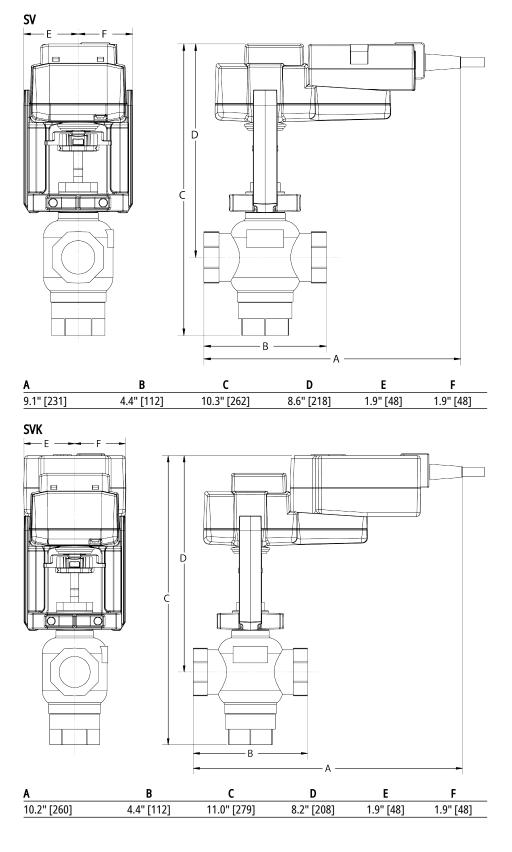




Dimensions



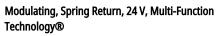






Technical data sheet

NFX24-MFT-S-X1







Technical data

Electrical data	Nominal voltage	AC/DC 24 V				
	Nominal voltage frequency	50/60 Hz				
	Power consumption in operation	6.5 W				
	Power consumption in rest position	3 W				
	Transformer sizing	9 VA (class 2 power source)				
	Auxiliary switch	2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 1090°				
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V				
	Electrical Connection	(2) 18 GA appliance cables with 1/2" conduit connectors, 3 ft [1 m],				
	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	210 V, Max. 0.5 mA, VDC variable				
	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°,				
	Running Time (Motor)	default 150 s, variable 40150 s				
	Running time motor variable	40150 s				
	Running time fail-safe	<20 s @ -4122°F [-2050°C], <60 s @ -22°F [-30°				
	Running time fail-safe note	@ -4122°F [-2050°C], <60 s @ -22°F [-30°C]				
	Override control	MIN (minimum position) = 0% MID (intermediate position) = 50% MAX (maximum position) = 100%				
	Noise level, motor	50 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	UL 873 listed, CSA C22.2 No. 24 certified				
	Quality Standard	ISO 9001				
	Ambient temperature	-22122°F [-3050°C]				



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NFX24-MFT-S-X1

Storage temperature	-40176°F [-4080°C]
Ambient humidity	max. 95% r.H., non-condensing
Servicing	maintenance-free
Weight	4.4 lb [2.0 kg]

Electrical installation

X INSTALLATION NOTES

Weight

(A) Actuators with appliance cables are numbered.

- f_1 Provide overload protection and disconnect as required.
- 3 Actuators may also be powered by 24 VDC.
- m 4 Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.
- Only connect common to negative (-) leg of control circuits.
- \wedge A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.
- A Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.

For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.

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

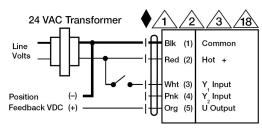
IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.

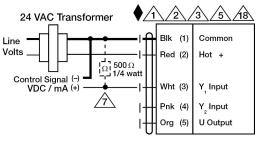
Meets cULus requirements without the need of an electrical ground connection.

/ Warning! Live Electrical Components!

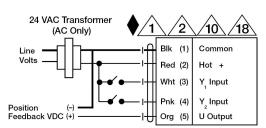
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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



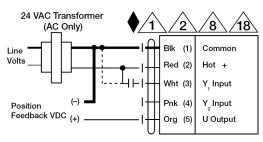
On/Off



VDC/mA Control



Floating Point

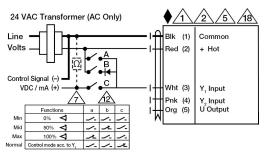


PWM Control



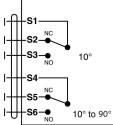


Technical data sheet



Override Control





Auxiliary Switches