

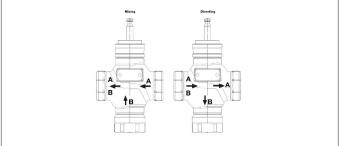
G320B-K Technical Data Sheet





Technical Data		
Fluid	chilled, hot water, up to 60% glycol	
Flow characteristic	modified equal percentage, linear B – AB	
Controllable flow range	stem up - open B – AB	
Valve Size [mm]	0.75" [20]	
Pipe connection	NPT female ends	
Housing	Bronze	
Stem	stainless steel	
Stem seal	EPDM O-ring	
Seat	Bronze	
Valve plug	brass	
Body Pressure Rating	ANSI Class 250, up to 400 psi below 150°F	
ANSI Class	250	
Rangeability Sv	A-port 100:1, B-port 50:1	
Cv	6.75	
Weight	2.4 lb [1.1 kg]	
Fluid Temp Range (water)	20280°F [-7138°C]	
Leakage rate	ANSI Class VI	
Servicing	repack kits available	

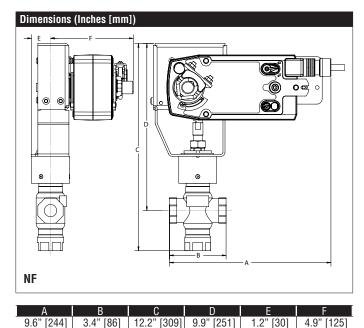
Flow/Mounting Details



Application

This 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 hydronic system with constant or variable flow. These 3-way valves can be used for both mixing and diverting depending on the piping configuration.

Suitable Actuators				
	Non-Spring	Spring	Electronic fail-safe	
G320B-K	SVB(X)	NF	SVKB(X)	



Safety Notes

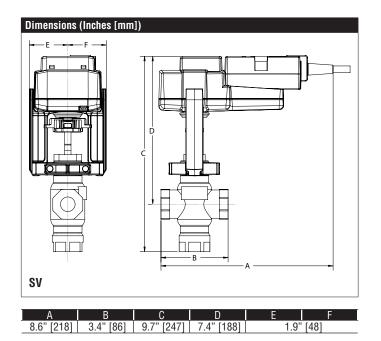
WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

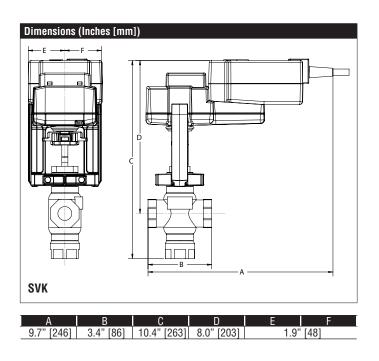
Piping

The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The G2 and G3 preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life. However, the assemblies can be mounted with the valve stem vertical or horizontal in relation to the pipe. The actuators should never be mounted underneath the valve, as condensation can build up and result in a failure of the actuators.



G320B-K Technical Data Sheet





NFB24-SR-X1 Technical Data Sheet

Modulating, Spring Return, AC 24 V/DC, for DC 2...10 V or 4...20 mA Control Signal





Technical Data		
Power Supply	24 VAC, ±20%, 50/60 Hz, 24 VDC, -10% /	
	+20%	
Power consumption in operation	3.5 W	
Power consumption in rest	2.5 W	
position		
Transformer sizing	6 VA (class 2 power source)	
Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2"	
Overload Protection	conduit connector electronic throughout 095° rotation	
Operating Range	DC 210 V, 420 mA w/ ZG-R01 (500 Ω ,	
Operating Range	1/4 W resistor)	
Position Feedback	DC 210 V, Max. 0.5 mA	
Angle of rotation	95°,	
Torque motor	90 in-lb [10 Nm]	
Direction of rotation motor	reversible with built-in switch	
Direction of motion fail-safe	reversible with cw/ccw mounting	
Position indication	Mechanical	
Manual override	5 mm hex crank (3/16" Allen), supplied	
Running Time (Motor)	95 s	
Running time fail-safe	<pre><20 s @ -4122°F [-2050°C], <60 s @</pre>	
	-22°F [-30°C]	
Ambient humidity	max. 95% r.H., non-condensing	
Ambient temperature	-22122°F [-3050°C]	
Storage temperature	-40176°F [-4080°C]	
Degree of Protection	IP54, NEMA 2, UL Enclosure Type 2	
Housing material	Galvanized steel and plastic housing	
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA	
0 9 0	E60730-1:02, CE acc. to 2004/108/EC and	
	2006/95/EC	
Noise level, motor	50 dB(A)	
Noise level, fail-safe	62 dB(A)	
Maintenance	maintenance-free	
Quality Standard	ISO 9001	
Weight	4.1 lb [1.9 kg]	

Safety Notes

WARNING: For Belimo products sold in California: these products do or may contain chemicals which are known to the State of California to cause cancer and or birth defects or other reproductive harms. For more information see www.p65warnings.ca.gov.

†Rated Impulse Voltage 800V, Type of Action 1.AA.B, Control Pollution Degree 3.



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Modulating, Spring Return, AC 24 V/DC, for DC 2...10 V or 4...20 mA Control Signal

Wiring Diagrams

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🔀 INSTALLATION NOTES

A Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

Actuators may also be powered by 24 VDC.

Only connect common to negative (-) leg of control circuits.

A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 VDC.

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

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.

