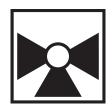






5-year warranty



Technical data

Functional data

Valve Size	0.75" [20]
Fluid	chilled or hot water, up to 60% glycol
Fluid Temp Range (water)	20280°F [-7138°C]
Body Pressure Rating	ANSI Class 250, up to 400 psi below 150°F
Flow characteristic	modified equal percentage, linear B – AB
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	6.75
ANSI Class	250
Body pressure rating note	up to 400 psi below 150°F
Valve body	Bronze
Valve plug	brass
Stem seal	EPDM O-ring
Seat	Bronze
Pipe connection	NPT female ends

Safety notes



Suitable actuators

Non-Spring
Electronic fail-safe

Materials

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

SVB(X)

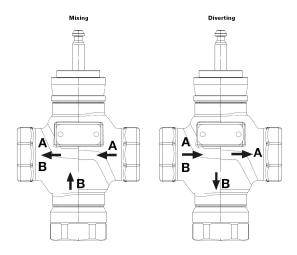
SVKB(X)

- 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.

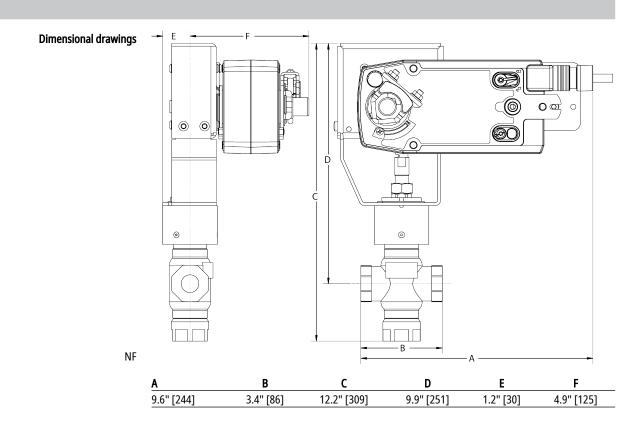
Product features



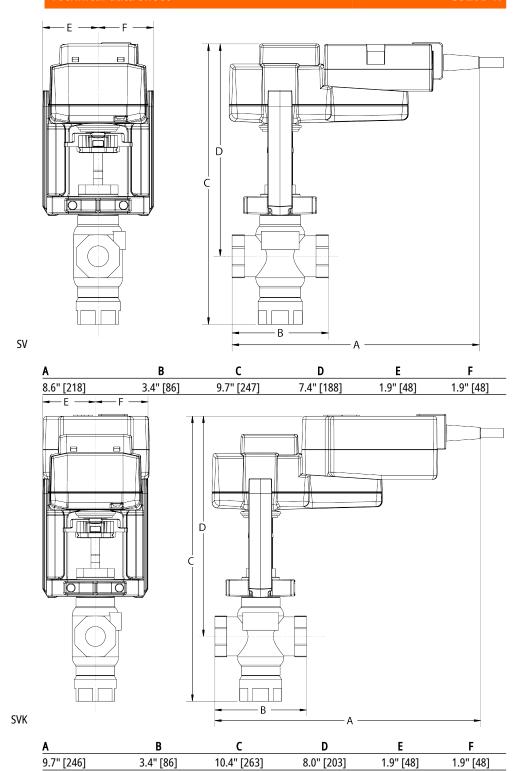
Flow/Mounting details



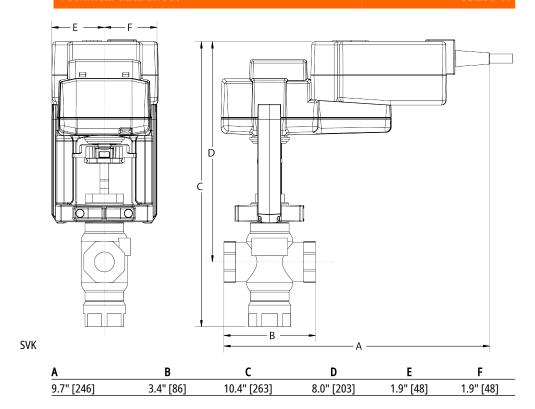
Dimensions







Technical data sheet G320B-K





Modulating, Spring Return, 24 V, Multi-Function Technology®

Technical data sheet





NFX24-MFT-X1



Technical data
recillical uata

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)
	Electrical Connection	18 GA appliance cable, 3ft [1m] 10ft [3m] and 16ft [5m], with 1/2" conduit connector, degree of

	protection NEMA 2 / IP54	-	,
Overload Protection	electronic throughout 095° rota	tioi	n

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 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°, adjustable with mechanical end stop, 3595°
Angle of rotation note	adjustable with mechanical end stop, 3595°
Running Time (Motor)	default 150 s, variable 40150 s, constant,
	independent of load
Running time motor note	constant, independent of load

Running time motor variable	40150 s
Running time fail-safe	<20 s @ -4.

Running time fail-safe	<20 s @ -4122°F [-2050°C], <60 s @ -22°F [-30°C]
Override control	MIN (minimum position) = 0%
	MID (intermediate position) = 50%

Mechanical

	MAX (maximum position) = 100%
Noise level, motor	50 dB(A)
Noise level, fail-safe	62 dB(A)

Safety data Degree of protection IEC/EN IP54

Position indication

Degree of protection NEMA/UL	NEMA 2 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



Technical data sheet	NFX24-MFT-X1	
Quality Standard	ISO 9001	
Quality Standard	1005 001	
Ambient temperature	-22122°F [-3050°C]	
Storage temperature	-40176°F [-4080°C]	
Ambient humidity	max. 95% r.H., non-condensing	
Servicing	maintenance-free	
Weight	4.4 lb [2.0 kg]	
Housing material	Galvanized steel and plastic housing	

Safety notes



Weight

Materials

- PVC W'Shld for GV w/UGLK (AM)
- Classic GM to GMB(X) retrofit bracket.
- Battery Back Up System for SY(7~10)-110
- ZS-300 Mounting Bracket Set
- 120 to 24 VAC, 40 VA transformer.
- Cable for ZTH US to actuators w/o diagnostics socket.
- PC Tool computer programming interface, serial port.

Electrical installation

> 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...20 mA control signal to 2...10 V.

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.

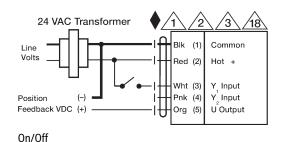
Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

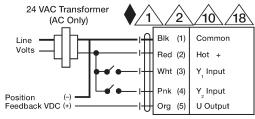
 f_2 IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

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

Warning! Live Electrical Components!

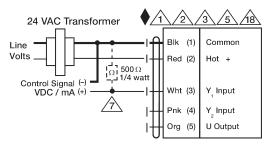
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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



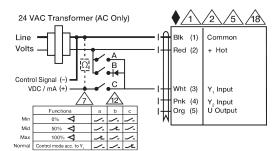


Floating Point

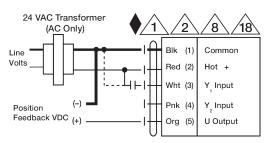




VDC/mA Control



Override Control



PWM Control