

Technical data

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Valve Size	1.5" [40]
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	28
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

Materials

Valve body	Bronze		
Valve plug	brass		
Stem seal	EPDM O-ring		
Seat	Bronze		
Pipe connection	NPT female ends		
Non-Spring	SVB(X)		
Electronic fail-safe	SVKB(X)		

Safety notes



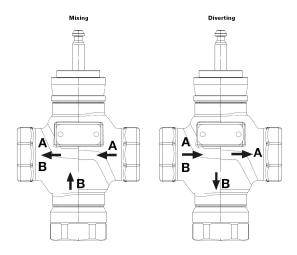
Suitable actuators

- 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
- 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

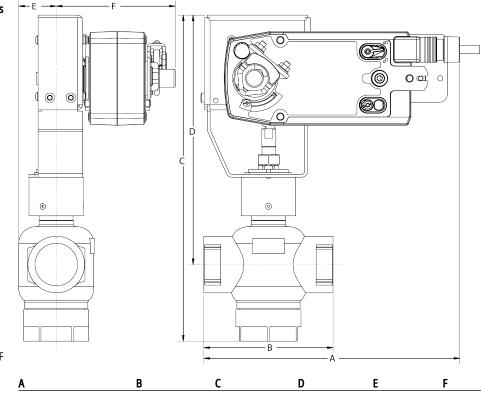


Flow/Mounting details



Dimensions

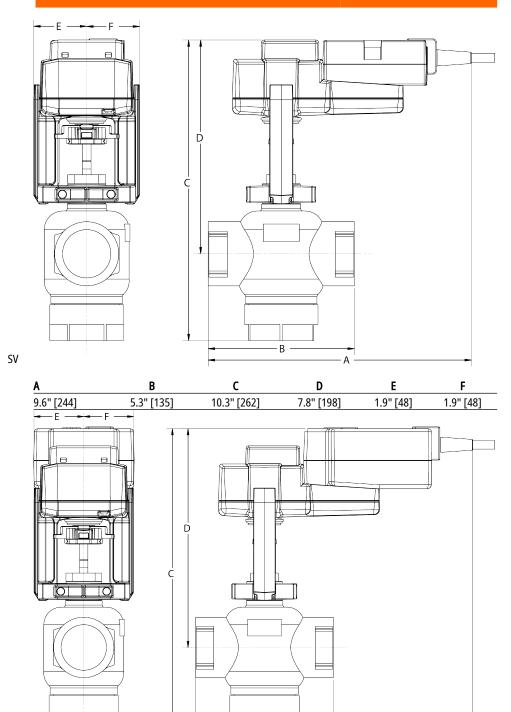
Dimensional drawings



AF

Α	В	С	D	E	F
10.5" [267]	5.3" [135]	13.5" [342]	10.4" [264]	1.5" [39]	4.9" [125]

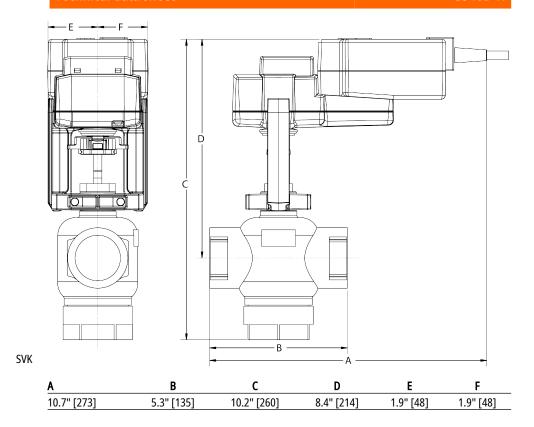
Technical data sheet G340B-N



SVK

A	В	С	D	E	F
10.7" [273]	5.3" [135]	10.2" [260]	8.4" [214]	1.9" [48]	1.9" [48]







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

Technical data sheet









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Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	7.5 W
	Power consumption in rest position	3 W
	Transformer sizing	10 VA (class 2 power source)
	Electrical Connection	18 GA appliance cable, 3ft [1m] 10ft [3m] and 16i [5m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54
	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 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, 359
	Angle of rotation note	adjustable with mechanical end stop, 3595°
	Running Time (Motor)	default 150 s, variable 70220 s
	Running time motor variable	70220 s
	Running time fail-safe	<20 s
	Override control	MIN (minimum position) = 0% MID (intermediate position) = 50% MAX (maximum position) = 100%
	Noise level, motor	40 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 UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	A 12 x 1 x 20x	OFO/ II

Ambient humidity

max. 95% r.H., non-condensing



	Servicing	maintenance-free
Weight	Weight	4.6 lb [2.1 kg]
Materials	Housing material	Galvanized steel and plastic housing

AFX24-MFT-X1

Safety notes



- NEMA 4X, 316L stainless steel enclosure.
- Battery Back Up System for SY(7~10)-110
- ZS-300 without brackets.

Technical data sheet

- NEMA 4X, 304 stainless steel enclosure.
- MFT95 resistor kit for 4 to 20 mA control applications.

Electrical installation

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.

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

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.

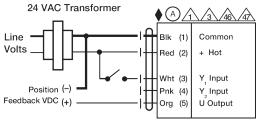
Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.

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.

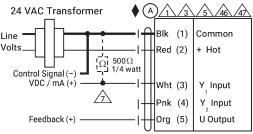
IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

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

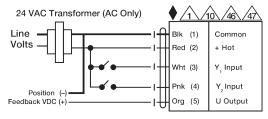
Master-Slave wiring required for piggy-back applications. Feedback from Master to control input(s) of Slave(s).



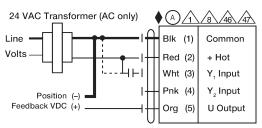
On/Off



VDC/mA Control

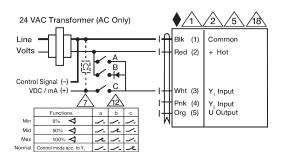


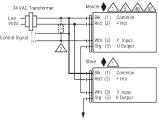
Floating Point



PWM Control







Master - Slave