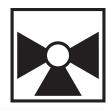






5-year warranty



### **Technical data**

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Valve Size	2" [50]
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	41
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)

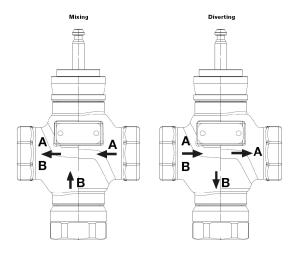
SVKB(X)

- 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**

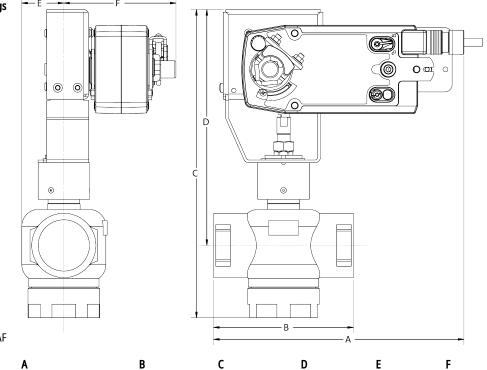


## Flow/Mounting details



## **Dimensions**

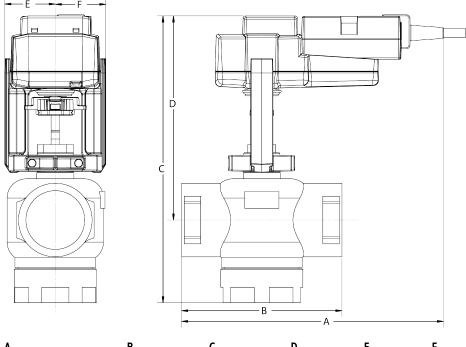
## **Dimensional drawings**

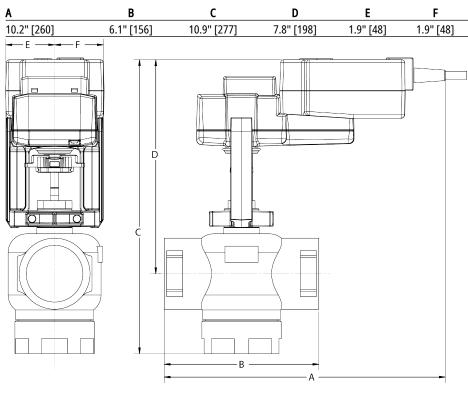


 $\mathsf{AF}$ 

A	В	С	D	E	F
10.9" [277]	6.1" [156]	13.5" [342]	10.4" [264]	1.8" [46]	4.9" [125]

Technical data sheet G350B-N



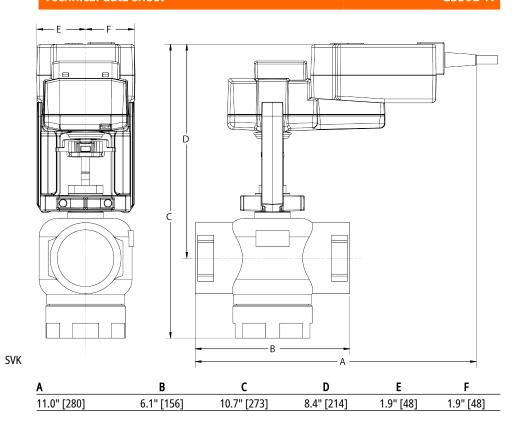


SVK

SV

A	В	C	D	E	F
11.0" [280]	6.1" [156]	10.7" [273]	8.4" [214]	1.9" [48]	1.9" [48]





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

## **Technical data sheet**

SVX24-MFT



Fechnical data		
Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	1.5 W
	Power consumption in rest position	2 W
	Transformer sizing	3.5 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 full stroke
	Electrical Protection	actuators are double insulated
Functional data	Actuating force motor	340 lbf [1500 N]
	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 $\Omega$ , 1/4 W resistor)
	Input Impedance	100 k $\Omega$ for 210 V (0.1 mA), 500 $\Omega$ for 420 mA, 1500 $\Omega$ for PWM, On/Off and Floating point
	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
	Direction of motion motor	selectable with switch
	Manual override	4 mm hex crank (shipped w/actuator)
	Stroke	0.75" [19 mm]
	Running Time (Motor)	default 90 s, variable 35150 s
	Running time motor variable	35150 s
	Noise level, motor	45 dB(A)
	Position indication	Mechanically, with pointer
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 and 2014/35/EU
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	max. 95% r.H., non-condensing
	Servicing	maintenance-free
Weight	Weight	2.87 lb [1.3 kg]
Materials	Housing material	Die cast aluminium and plastic casing

# Safety notes



## Technical data sheet



- PVC W'Shld for GV w/UGLK (GM)
- Battery Back Up System for SY(7~10)-110
- 120 to 24 VAC, 40 VA transformer.
- 50% voltage divider kit (resistors with wires).
- PC Tool computer programming interface, serial port.

### **Accessories**

Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to LonWorks	UK24LON
	Gateway MP to Modbus RTU	UK24MOD
Service tools	Description	Туре
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN
	Service Tool, with ZIP-USB function, for parametrisable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US

#### **Electrical installation**

### > INSTALLATION NOTES

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

Actuators may also be powered by 24 VDC.

 $\overline{/ \gamma}$  A 500  $\Omega$  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.

Solution For triac sink the common connection from the actuator must be connected to the hot connection of the controller. Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink.

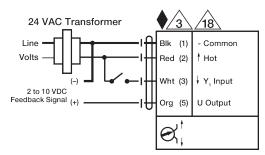
48\ ACTU

Actuators with plenum cable do not have numbers; use color codes instead.

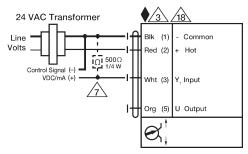
 $\label{lem:meets} \mbox{Meets cULus requirements without the need of an electrical ground connection.}$ 

### **Warning! Live Electrical Components!**

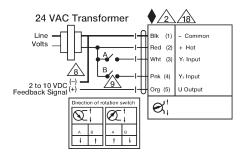
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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



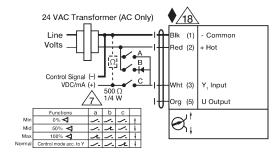
On/Off



VDC / 4 to 20 mA



Floating Point



Override Control Min, Mid, Max Positions