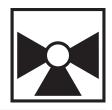






5-year warranty



### **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)

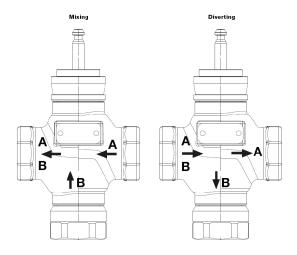
SVKB(X)

- 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**

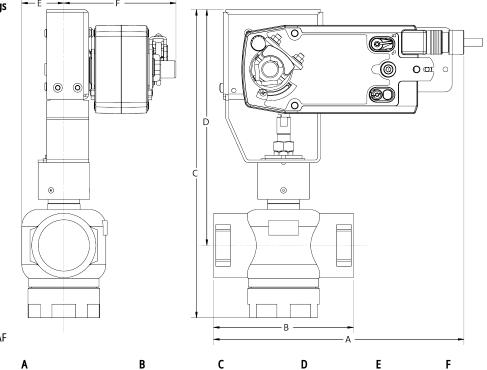


# Flow/Mounting details



# **Dimensions**

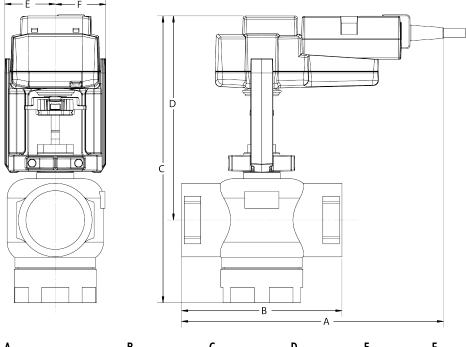
## **Dimensional drawings**

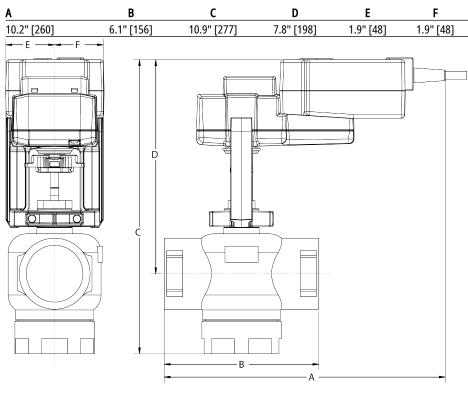


 $\mathsf{AF}$ 

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



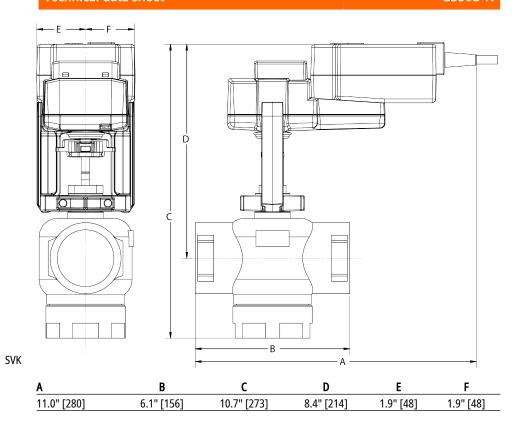


SVK

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, Electronic Fail-Safe, Linear, 24 V



~ 1 · 11 ·			
Technical data			
Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	3 W	
	Power consumption in rest position	2 W	
	Transformer sizing	7 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 Ω, 1/4 W resistor)	
	Input Impedance	100 k $\Omega$ for 210 V (0.1 mA), 500 $\Omega$ for 420 mA	
	Position feedback U	210 V	
	Bridging time	2 s delay before fail-safe activates	
	Pre-charging time	520 s	
	Direction of motion motor	selectable with switch	
	Direction of motion fail-safe	reversible with switch	
	Manual override	4 mm hex crank (shipped w/actuator)	
	Stroke	0.75" [19 mm]	
	Running Time (Motor)	90 s constant, independent of load	
	Running time motor note	constant, independent of load	
	Running time fail-safe	<35 s	
	Noise level, motor	45 dB(A)	
	Noise level, fail-safe	60 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	
	Servicing	maintenance nee	
Weight	Weight	3.53 lb [1.6 kg]	
Materials	Housing material	Die cast aluminium and plastic casing	

# Safety notes





- 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.

### **Electrical installation**

## > INSTALLATION NOTES

Actuators may also be powered by 24 VDC.

 $\frac{5}{2}$  Only connect common to negative (-) leg of control circuits.

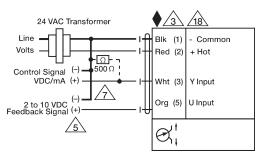
 $\triangle$  A 500  $\Omega$  resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

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

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.



VDC / 4 to 20 mA