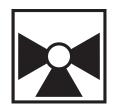






5-year warranty



Technical data

Functional data

Valve Size	0.5" [15]	
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	2.2	
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)

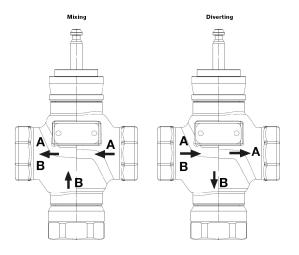
SVKB(X)

- 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.

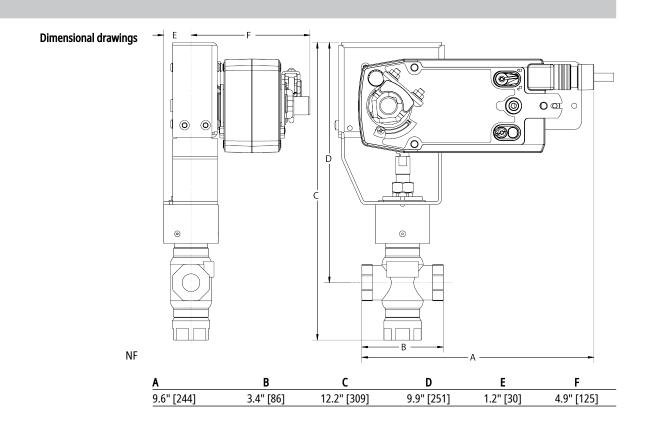
Product features



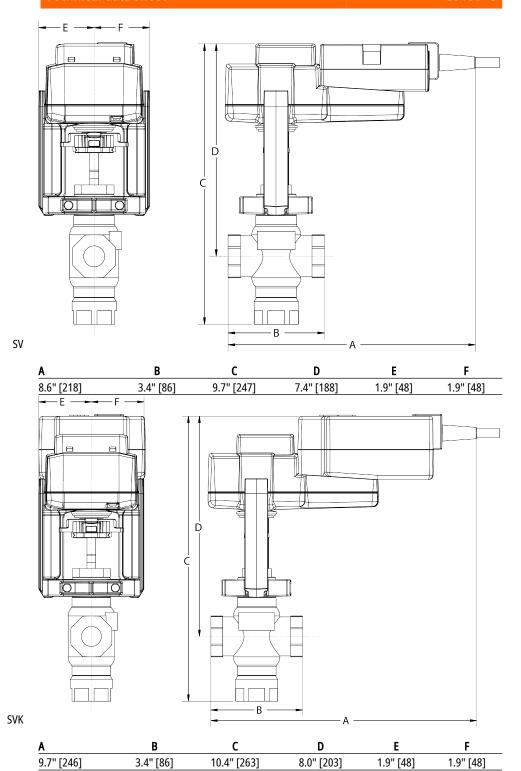
Flow/Mounting details



Dimensions

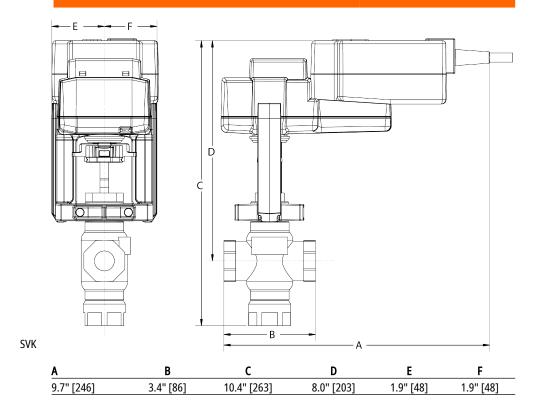








Technical data sheet G315B-G



Technical data sheet

NFB24-SR-X1









Nominal voltage Nominal voltage frequency Power consumption in operation Power consumption in rest position Transformer sizing Electrical Connection Overload Protection Operating range Y Operating range Y note	AC/DC 24 V 50/60 Hz 3.5 W 2.5 W 6 VA (class 2 power source) 18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector electronic throughout 095° rotation
Nominal voltage frequency Power consumption in operation Power consumption in rest position Transformer sizing Electrical Connection Overload Protection Operating range Y	50/60 Hz 3.5 W 2.5 W 6 VA (class 2 power source) 18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector electronic throughout 095° rotation
Power consumption in operation Power consumption in rest position Transformer sizing Electrical Connection Overload Protection Operating range Y	2.5 W 6 VA (class 2 power source) 18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector electronic throughout 095° rotation
Power consumption in rest position Transformer sizing Electrical Connection Overload Protection Operating range Y	6 VA (class 2 power source) 18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector electronic throughout 095° rotation
Electrical Connection Overload Protection Operating range Y	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector electronic throughout 095° rotation
Electrical Connection Overload Protection Operating range Y	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector electronic throughout 095° rotation
Operating range Y	<u> </u>
Operating range Y note	210 V
	420 mA w/ ZG-R01 (500 Ω , 1/4 W resistor)
Position feedback U	210 V
Position feedback U note	Max. 0.5 mA
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°,
Running Time (Motor)	95 s
Running time fail-safe	<20 s @ -4122°F [-2050°C], <60 s @ -22°F [-30°
Noise level, motor	50 dB(A)
Noise level, fail-safe	62 dB(A)
Position indication	Mechanical
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; 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
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	4.1 lb [1.9 kg]
	Galvanized steel and plastic housing
	Position indication Degree of protection IEC/EN Degree of protection NEMA/UL Agency Listing Quality Standard Ambient temperature Storage temperature Ambient humidity Servicing

Safety notes

Technical data sheet



- Base plate for ZS-100.
- PVC W'Shld for GV w/UGLK (LF)
- 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

X INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

\ Provide overload protection and disconnect as required.

Actuators may also be powered by 24 VDC.

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

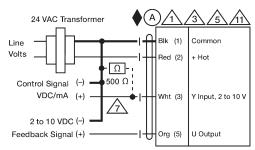
 $\hat{\gamma}$ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

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.



2...10 V / 4...20 mA Control