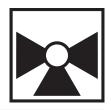






5-year warranty



## **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	4.4	
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)

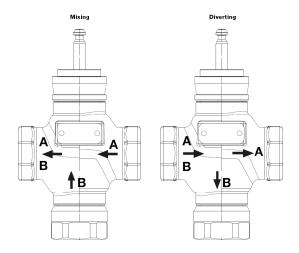
SVKB(X)

- 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.

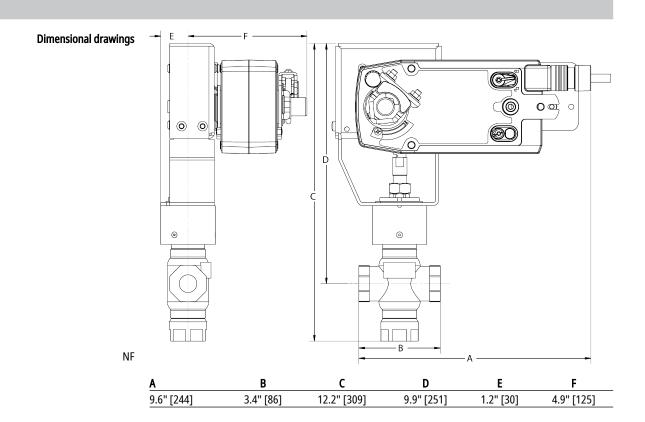
#### **Product features**



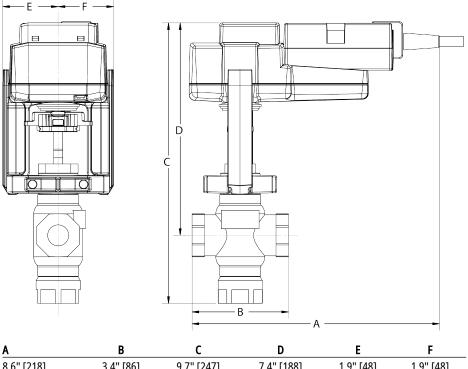
# Flow/Mounting details

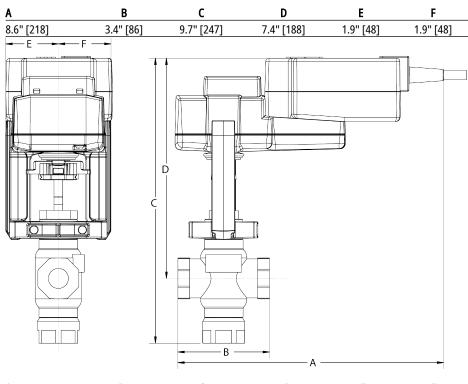


# **Dimensions**



Technical data sheet G315B-J





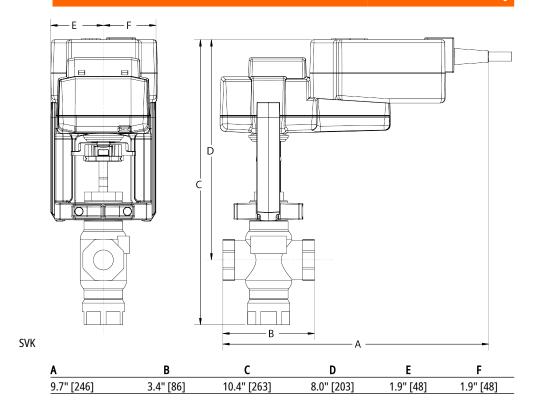
 $\mathsf{SVK}$ 

SV

Α	В	C	D	E	F
9.7" [246]	3.4" [86]	10.4" [263]	8.0" [203]	1.9" [48]	1.9" [48]



Technical data sheet G315B-J





# Technical data sheet NFBUP-X1



echnical data			
Electrical data	Nominal voltage	AC 24240 V / DC 24125 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	6 W	
	Power consumption in rest position	2.5 W	
	Transformer sizing	6 VA @ AC 24 V (class 2 power source), 6.5 VA @ AC 120 V, 9.5 VA @ AC 240 V	
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" conduit connector	
	Overload Protection	electronic throughout 095° rotation	
Functional data	Direction of motion motor	selectable by ccw/cw mounting	
	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)	75 s	
	Running time fail-safe	<20 s @ -4122°F [-2050°C], <60 s @ -22°F [-30°C]	
	Noise level, motor	50 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 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	Weight	4.2 lb [1.9 kg]	

# Safety notes

**Technical data sheet NFBUP-X1** 



- Base plate for ZS-100.
- Classic GM to GMB(X) retrofit bracket.
- 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**

# /\ Warning! Live Electrical Components!

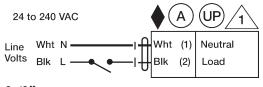
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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

## > INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

(UP) Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC. 1 Provide overload protection and disconnect as required.

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



On/Off