





5-year warranty



Technical data

Functional data

Valve Size	1" [25]	
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	
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	14	
ANSI Class	250	
Body pressure rating note	up to 400 psi below 150°F	
Valve plug	brass	
Seat	Bronze	
End fitting	NPT female ends	
Non-Spring	SVB(X)	
Electronic fail-safe	SVKB(X)	

Safety notes



Materials

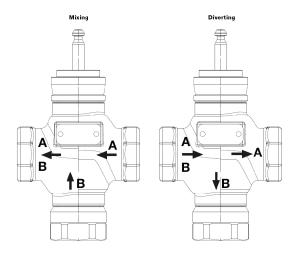
Suitable actuators

- 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.



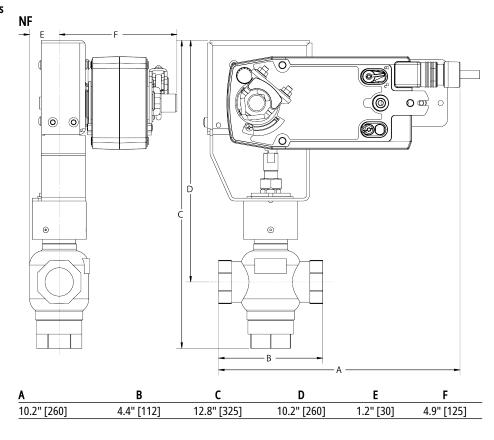
Product features

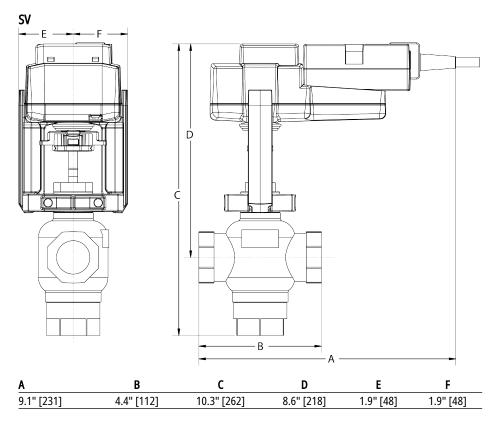
Flow/Mounting details

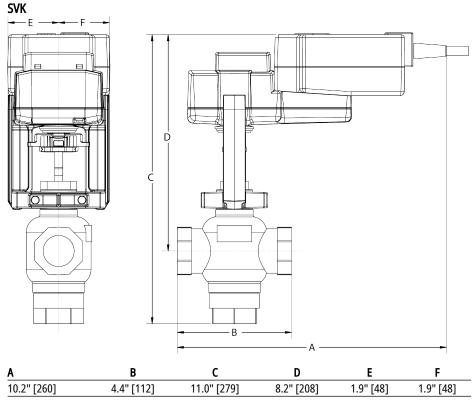


Dimensions

Dimensional drawings









Modulating, Electronic Fail-Safe, Linear, 24 V, Multi-Function Technology®

Technical data sheet





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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 Ω for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω 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
	Position Feedback	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)	default 90 s, variable 35150 s
	Running time motor variable	35150 s
	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
	Enclosure	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
		-

maintenance-free

Servicing

Weight	Weight	3.53 lb [1.6 kg]

Materials Housing material Die cast aluminium and plastic casing

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 configurable and communicative Belimo actuators / VAV controller and HVAC performance devices	ZTH US

Electrical installation

INSTALLATION NOTES

∕2\ Actuators may be connected in parallel. Power consumption and input impedance must be observed.

 $\sqrt{3}$ Actuators may also be powered by 24 VDC.

 Λ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

(Sink) 24 V line.

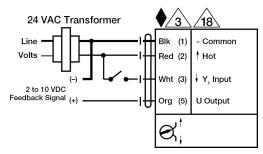
 $\sqrt{9}$ For triac sink the common connection from the actuator must be connected to the hot connection of the controller. Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink.

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

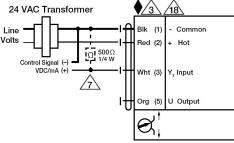
Meets cULus requirements without the need of an electrical ground connection.

Warning! Live Electrical Components!

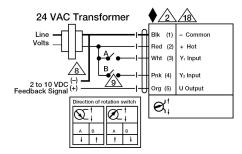
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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



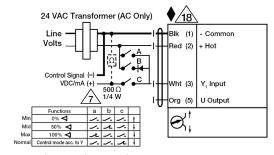
On/Off



VDC / 4 to 20 mA



Floating Point



Override Control Min, Mid, Max Positions