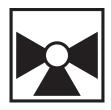






5-year warranty



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)

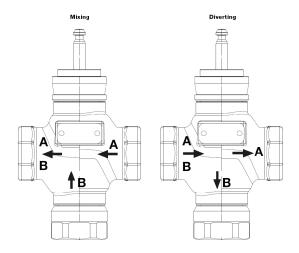
SVKB(X)

- 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.

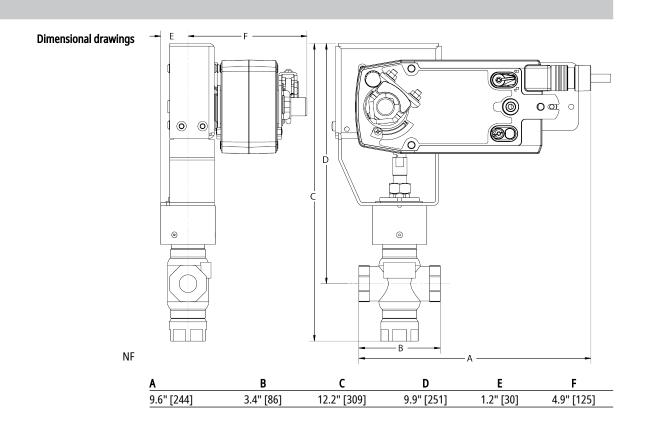
Product features



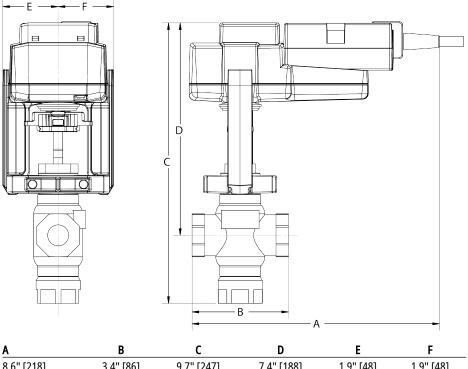
Flow/Mounting details

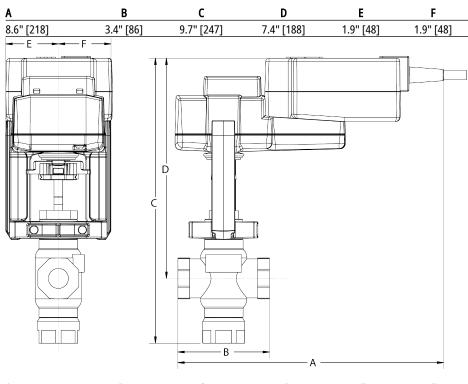


Dimensions



Technical data sheet G315B-J





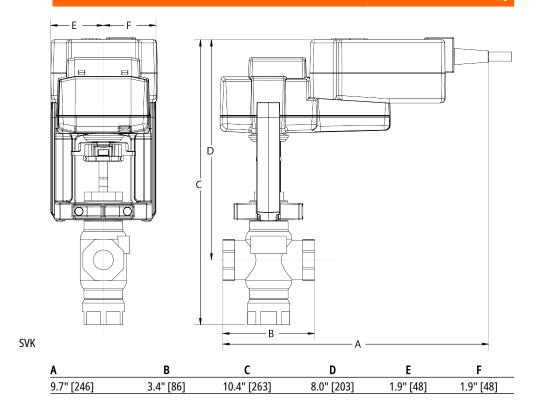
 SVK

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





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

Technical data sheet





| Tochnical data | | |
|-----------------|------------------------------------|--|
| 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 |
| | 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 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 | 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.

Accessories

| Galeways | 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.

 \bigwedge A 500 Ω 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.

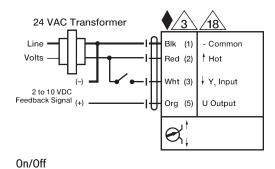
For triac sink the common connection from the actuator must be connected to the hot connection of the controller. Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink.

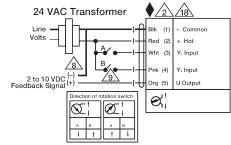
Actuators with plenum cable do not have numbers; use color codes instead.

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

Warning! Live Electrical Components!

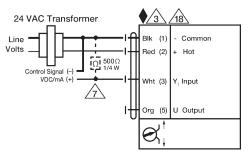
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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



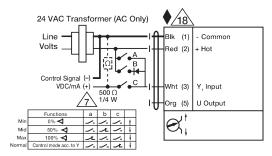


Floating Point





VDC / 4 to 20 mA



Override Control Min, Mid, Max Positions