





5-year warranty



Technical data

Functional data

| Valve Size | 4" [100] | |
|-----------------------------------|---|--|
| Fluid | chilled or hot water, up to 60% glycol, steam | |
| Fluid Temp Range (water) | 32350°F [0176°C] | |
| Fluid Temp Range (steam) | 32338°F [0170°C] | |
| Body Pressure Rating | ANSI Class 125, up to 175 psi below 150°F | |
| Flow characteristic | linear | |
| Servicing | repack/rebuild kits available | |
| Rangeability Sv | 98:1 | |
| Max Differential Pressure (Steam) | 50 psi [345 kPa] | |
| Flow Pattern | 2-way | |
| Leakage rate | ANSI Class III | |
| Controllable flow range | stem up - open A – AB | |
| Cv | 170 | |
| Maximum Inlet Pressure (Steam) | 100 psi [690 kPa] | |
| ANSI Class | 125 | |
| Body pressure rating note | up to 175 psi below 150°F | |
| Valve body | Cast iron - ASTM A126 Class B | |
| Valve plug | Stainless steel | |
| Stem seal | NLP EPDM (no lip packing) | |
| Seat | Stainless steel AISI 316 | |
| Pipe connection | 125 lb flanged | |
| Non-Spring | EVB(X) | |

Safety notes



Electronic fail-safe

Suitable actuators

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

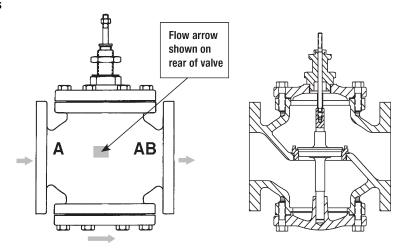
AVKB(X)

- 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

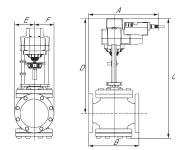


Flow/Mounting details

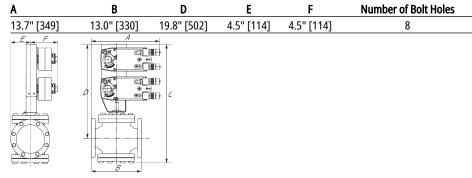


Dimensions

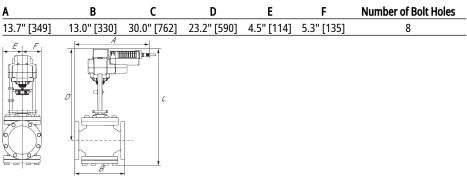
Dimensional drawings



EVB, EVX, RVB, RVX



2*AFB, 2*AFX



AVKB, AVKX

| Α | В | C | D | E | F | Number of Bolt Holes |
|-------------|-------------|-------------|-------------|------------|------------|-----------------------------|
| 13.7" [349] | 13.0" [330] | 26.6" [676] | 19.8" [502] | 4.5" [114] | 4.5" [114] | 8 |

Modulating, Non-Spring Return, Linear, 24 V, for DC 2...10 V or 4...20 mA









| echnical data | | | |
|-----------------|------------------------------------|--|--|
| Electrical data | Nominal voltage | AC/DC 24 V | |
| | Nominal voltage frequency | 50/60 Hz | |
| | Power consumption in operation | 5 W | |
| | Power consumption in rest position | 1.5 W | |
| | Transformer sizing | 7.5 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 | 560 lbf [2500 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 | |
| | Position feedback U | 210 V | |
| | Direction of motion motor | selectable with switch 0/1 | |
| | Manual override | 5 mm hex crank (3/16" Allen), supplied | |
| | Stroke | 2" [50 mm] | |
| | Running Time (Motor) | default 90 s, variable 90 or 150 s | |
| | Running time motor variable | 90 or 150 s | |
| | Noise level, motor | 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; 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 | |
| | | | |

Safety notes

Materials

Housing material

Die cast aluminium and plastic casing

Technical data sheet EVX24-SR



- 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.

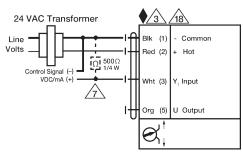
 $_{\Delta}$ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

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