





G665C



Technical data

| Functional data | Valve Size | 2.5" [65] |
|-------------------|-----------------------------------|---|
| | Fluid | chilled or hot water, up to 60% glycol, steam |
| | Fluid Temp Range (water) | 32338°F [0138°C] |
| | Fluid Temp Range (steam) | 32280°F [0138°C] |
| | Body Pressure Rating | ANSI Class 125, up to 175 psi below 150°F |
| | Flow characteristic | equal percentage |
| | Servicing | repack/rebuild kits available |
| | Rangeability Sv | 85:1 |
| | Max Differential Pressure (Steam) | 15 psi [103 kPa] |
| | Flow Pattern | 2-way |
| | Controllable flow range | stem up - open A – AB |
| | Cv | 65 |
| | Maximum Inlet Pressure (Steam) | 35 psi [241 kPa] |
| | ANSI Class | 125 |
| | Body pressure rating note | up to 175 psi below 150°F |
| Materials | Valve body | Cast iron - ASTM A126 Class B |
| | Valve plug | brass |
| | Stem seal | NLP EPDM (no lip packing) |
| | Seat | Stainless steel AISI 316 |
| | Pipe connection | 125 lb flanged |
| uitable actuators | Non-Spring | EVB(X) |
| | Electronic fail-safe | AVKB(X) |

Safety notes

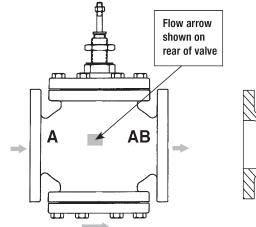


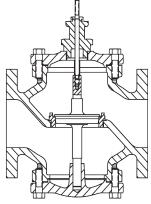
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used 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

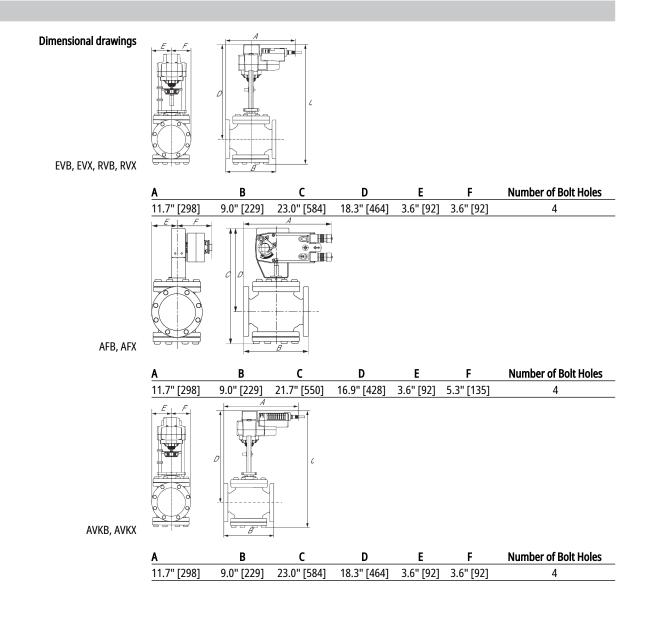


Flow/Mounting details





Dimensions





Modulating, Non-Spring Return, Linear, 24 V, Multi-Function Technology® **Technical data sheet**

EVCX24-MFT





Technical 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, 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 |
| | 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 35 s, variable 3590 s |
| | Running time motor variable | 3590 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 |
| Weight | Weight | 5.73 lb [2.6 kg] |

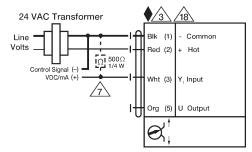


Technical data sheet

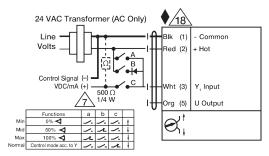
| | Materials | Housing material | Die cast aluminium and plast | Die cast aluminium and plastic casing | |
|--|--|---|--|---------------------------------------|--|
| Safety notes | | | | | |
| | ∕∶∖ | PVC W'Shld for GV w/UGLK (GM) Battery Back Up System for SY(7~10)- 120 to 24 VAC, 40 VA transformer. 50% voltage divider kit (resistors with PC Tool computer programming inter | n wires). | | |
| Accessories | | | | | |
| | Gateways | Description | | Туре | |
| | | Gateway MP to BACnet MS/TP Gateway MP to LonWorks Gateway MP to Modbus RTU | | UK24BAC UK24LON UK24MOD | |
| | Service tools | Description | | Туре | |
| | | Connection cable 10 ft [3 m], A: RJ11 6/4 connection | 4 ZTH EU, B: 3-pin Weidmüller and supply | ZK4-GEN | |
| | | Service Tool, with ZIP-USB function, for Belimo actuators, VAV controller and HV | • | ZTH US | |
| Electrical installation | | | | | |
| A 500 Ω resistor (ZG-R01) converts the 420 mA control signal to 210 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 controller. Contact closures A & B also can be triacs. A & B should both be closed for the triac source a 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 worwith live electrical components. Have a qualified licensed electrician or other individual who has bee properly trained in handling live electrical components perform these tasks. Failure to follow all elections when exposed to live electrical components could result in death or serious injury | | | | | |
| 24 VAC Transformer | 3 18 Blk (1) - Com Red (2) ↑ Hot Wht (3) ↓ Y, In | mon Line – Volts – | AC Transformer | | |



Technical data sheet



VDC / 4 to 20 mA



Override Control Min, Mid, Max Positions