

G7125DS







Technical data

| Functional data | Valve Size | 5" [125] | |
|--------------------|---------------------------|---|--|
| | Fluid | chilled or hot water, up to 60% glycol | |
| | Fluid Temp Range (water) | 32300°F [0149°C] | |
| | Body Pressure Rating | ANSI Class 125, up to 175 psi below 150°F | |
| | Flow characteristic | linear | |
| | Servicing | repack/rebuild kits available | |
| | Rangeability Sv | 50:1 | |
| | Flow Pattern | 3-way Diverting | |
| | Leakage rate | ANSI Class III | |
| | Controllable flow range | stem up - open AB – B | |
| | Сν | 195 | |
| | 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 | Stainless steel | |
| | Stem seal | NLP EPDM (no lip packing) | |
| | Seat | Stainless steel AISI 316 | |
| | Pipe connection | 125 lb flanged | |
| Suitable actuators | Non-Spring | EVB(X) | |
| | Electronic fail-safe | AVKB(X) | |

Safety notes

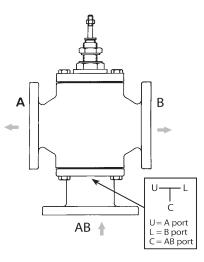


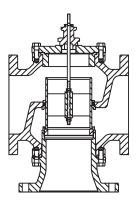
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

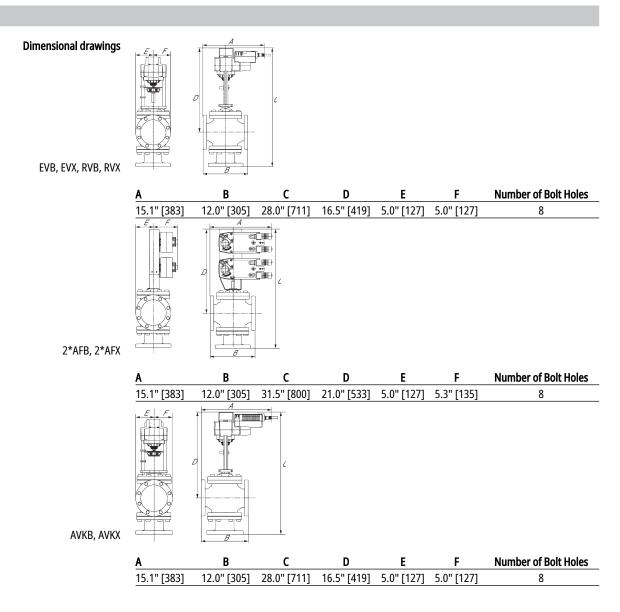


Flow/Mounting details



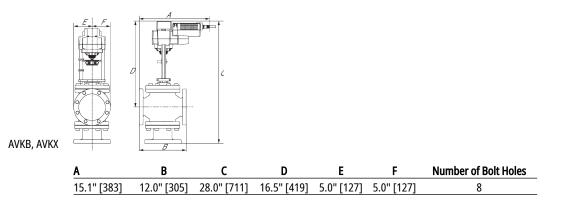


Dimensions











Modulating, Fail-Safe Operation, Linear, 24 V, Multi-Function Technology® **Technical data sheet**

AVKX24-MFT





Technical data

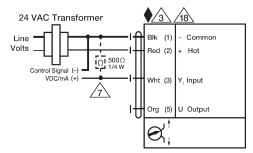
| Electrical data | Nominal voltage | AC/DC 24 V | |
|-----------------|------------------------------------|--|--|
| | Nominal voltage frequency | 50/60 Hz | |
| | Power consumption in operation | 5 W | |
| | Power consumption in rest position | 2 W | |
| | Transformer sizing | 9.5 VA (class 2 power 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 | 450 lbf [2000 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 | 5 mm hex crank (3/16" Allen), supplied | |
| | Stroke | 1.25" [32 mm] | |
| | Running Time (Motor) | default 90 s, variable 90150 s | |
| | Running time motor variable | 90150 s | |
| | Running time fail-safe | <35 s | |
| | Noise level, motor | 60 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 | |
| | | maintenance-free | |



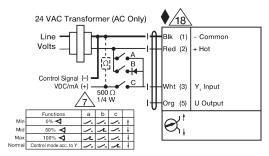
AVKX24-MFT

| Weight | Weight 6.39 lb [2.9 kg] | <u>. </u> |
|--|--|--|
| Materials | Housing material Die cast alumin | nium and plastic casing |
| Safety notes | | |
| Ĺ | 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 | | |
| 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 ZTH EU, B: 3-pin Weidmüller connection Service Tool, with ZIP-USB function, for parametrisable and commun Belimo actuators, VAV controller and HVAC performance devices | |
| Electrical installation | | |
| | For triac sink the common connection from the actuator must be cor controller. Contact closures A & B also can be triacs. A & B should bot open for triac sink. Actuators with plenum cable do not have numbers; use color codes i Meets cULus requirements without the need of an electrical ground Warning! Live Electrical Components! During installation, testing, servicing and troubleshooting of this pro with live electrical components. Have a qualified licensed electrician properly trained in handling live electrical components perform thes safety precautions when exposed to live electrical components could | on (Sink) 24 V line. nnected to the hot connection of the th be closed for the triac source and instead. connection. oduct, it may be necessary to work or other individual who has been se tasks. Failure to follow all electrical d result in death or serious injury. |
| 24 VAC Transformer Line Unit Compared to the second secon | Line Volts I Hed (2) + Nmon Volts I Hed (2) + Protect 10 VDC (-) Protect 3 (-) VDC (| Common Hot I Input I Input Output |
| | | |





VDC / 4 to 20 mA



Override Control Min, Mid, Max Positions