







Type overview

| Туре | DN |
|----------|----|
| G765-250 | 65 |
| | |

Technical data

| Functional data | Valve size [mm] | 2.5" [65] | | | | |
|--------------------|--------------------------|---|--|--|--|--|
| | Fluid | chilled or hot water, up to 60% glycol | | | | |
| | Fluid Temp Range (water) | 32350°F [0176°C] | | | | |
| | Body Pressure Rating | ANSI Class 250, up to 280 psi below 350°F linear | | | | |
| | Flow characteristic | | | | | |
| | Servicing | repack/rebuild kits available | | | | |
| | Rangeability Sv | 50:1 | | | | |
| | Flow Pattern | 3-way Mixing | | | | |
| | Leakage rate | ANSI Class III | | | | |
| | Controllable flow range | stem up - open B – AB | | | | |
| | Cv | 68 | | | | |
| Materials | Valve body | Cast iron - ASTM A126 Class B | | | | |
| | Valve plug | bronze | | | | |
| | Spindle | stainless steel | | | | |
| | Spindle seal | NLP EPDM (no lip packing) | | | | |
| | Seat | Stainless steel AISI 316 | | | | |
| | Pipe connection | 250 lb flanged | | | | |
| Suitable actuators | Non-Spring | EVB(X) RVB(X) | | | | |
| | Spring | AF (2*AFB(X)) | | | | |
| | Electrical fail-safe | AVKB(X) (2*GKB(X)) | | | | |

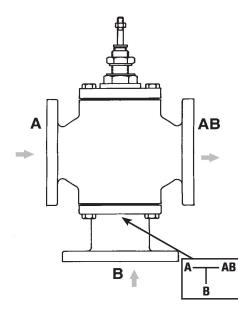
Safety notes

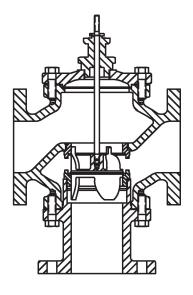


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.
- Only authorized 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.



Flow/Mounting details

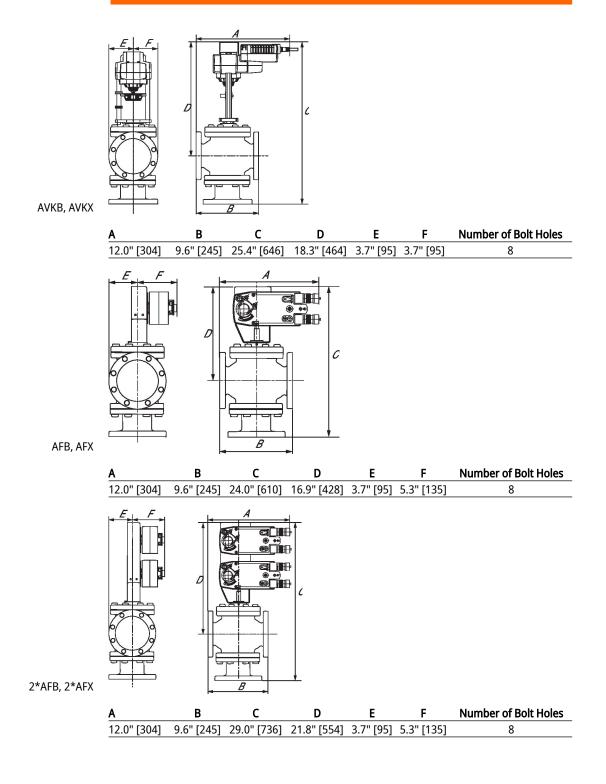




Dimensions

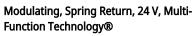
| Type G765-250 | | | | | | | DN 65 |
|----------------------------|-------------------------|------------------------|-------------------------|-------------------------|-----------------------|-----------------------|---------------------------|
| EVB, EVX, RVB, RVX | | | | | | | |
| | A 12.0" [304] | B 9.6" [245] | C 25.4" [646] | D 18.3" [464] | E 3.7" [95] | F 3.7" [95] | Number of Bolt Holes 8 |
| 2*GMB, 2*GMX, 2*GKB, 2*GKX | | | | | | | |
| | A | B | C | D | E | F | Number of Bolt Holes |
| | 12.0" [304] | 9.6" [245] | 29.0" [736] | 21.8" [554] | 3.7" [95] | 5.3" [135] | 8 |







2*AFX24-MFT-S-X1







Technical data

| Electrical data | Nominal voltage | AC/DC 24 V |
|-----------------|-------------------------------------|--|
| | Nominal voltage frequency | 50/60 Hz |
| | Nominal voltage range | AC 19.228.8 V / DC 21.628.8 V |
| | Power consumption in operation | 7.5 W |
| | Power consumption in rest position | 3 W |
| | Transformer sizing | 20 VA |
| | Auxiliary switch | 2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 1090° |
| | Switching capacity auxiliary switch | 3 A resistive (0.5 A inductive) @ AC 250 V |
| | Electrical Connection | (2) 18 GA appliance cables, 1 m, 3 m or 5 m, with or without 1/2" conduit connectors |
| | Overload Protection | electronic throughout 095° rotation |
| Functional data | 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 |
| | Operating modes optional | variable (VDC, PWM, on/off, floating point) |
| | Position feedback U | 210 V |
| | Position feedback U note | Max. 0.5 mA |
| | Position feedback U variable | VDC variable |
| | Direction of motion motor | selectable with switch 0/1 |
| | Direction of motion fail-safe | reversible with cw/ccw mounting |
| | Manual override | 5 mm hex crank (3/16" Allen), supplied |
| | Angle of rotation | 95° |
| | Angle of rotation note | adjustable with mechanical end stop, 3595° |
| | Running Time (Motor) | 150 s / 90° |
| | Running time motor variable | 70220 s |
| | Running time fail-safe | <20 s |
| | Override control | MIN (minimum position) = 0% MID (intermediate position) = 50% MAX (maximum position) = 100% |
| | Noise level, motor | 40 dB(A) |
| | Noise level, fail-safe | 62 dB(A) |
| | Position indication | Mechanical |
| Safety data | Power source UL | Class 2 Supply |
| | Degree of protection IEC/EN | IP54 |
| | Degree of protection NEMA/UL | NEMA 2 |
| | Enclosure | UL Enclosure Type 2 |



2*AFX24-MFT-S-X1

| data | Agency Listing | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU |
|-------|---------------------|---|
| | Quality Standard | ISO 9001 |
| | UL 2043 Compliant | Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC |
| | Ambient humidity | Max. 95% RH, non-condensing |
| | Ambient temperature | -22122°F [-3050°C] |
| | Storage temperature | -40176°F [-4080°C] |
| | Servicing | maintenance-free |
| eight | Weight | 9.26 lb [4.2 kg] |
| rials | Housing material | Galvanized steel and plastic housing |

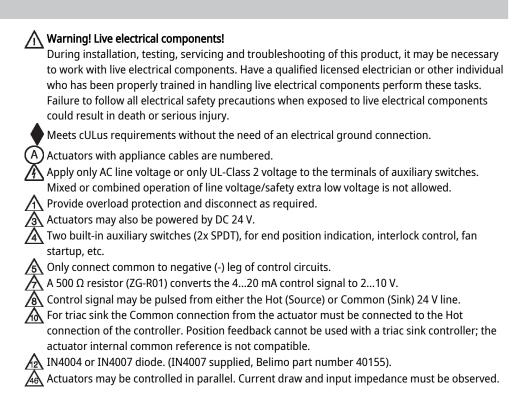
Footnotes *Variable when configured with MFT options.

Accessories

| Gateways | Description | Туре |
|-------------|---|---------|
| | Gateway MP to BACnet MS/TP | UK24BAC |
| | Gateway MP to Modbus RTU | UK24MOD |
| | Gateway MP to LonWorks | UK24LON |
| accessories | Description | Туре |
| | Service Tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices | ZTH US |
| 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 programmable and communicative Belimo actuators, VAV controller and HVAC performance devices | ZTH US |

Electrical installation

Electrica





2*AFX24-MFT-S-X1

