







### 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))				

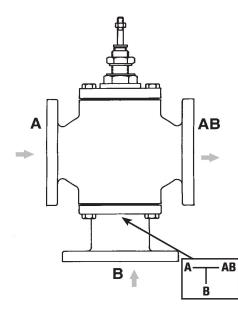
#### Safety notes

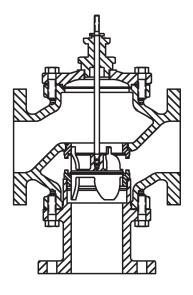


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

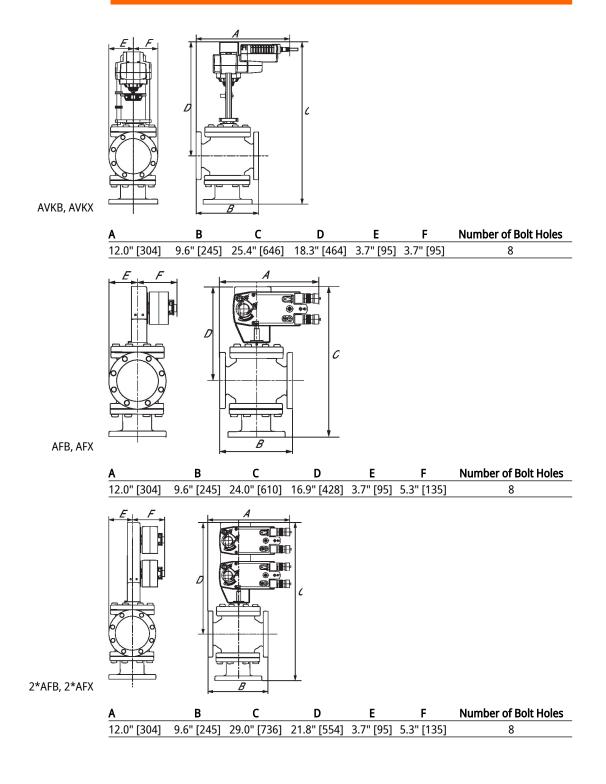




# Dimensions

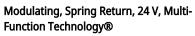
<b>Type</b> G765-250							<b>DN</b> 65
EVB, EVX, RVB, RVX							
	<b>A</b> 12.0" [304]	<b>B</b> 9.6" [245]	<b>C</b> 25.4" [646]	<b>D</b> 18.3" [464]	<b>E</b> 3.7" [95]	<b>F</b> 3.7" [95]	Number of Bolt Holes 8
2*GMB, 2*GMX, 2*GKB, 2*GKX							
	A	B	C	D	E	F	Number of Bolt Holes
	12.0" [304]	9.6" [245]	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 $\Omega$ for 210 V (0.1 mA), 500 $\Omega$ for 420 mA, 1500 $\Omega$ 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

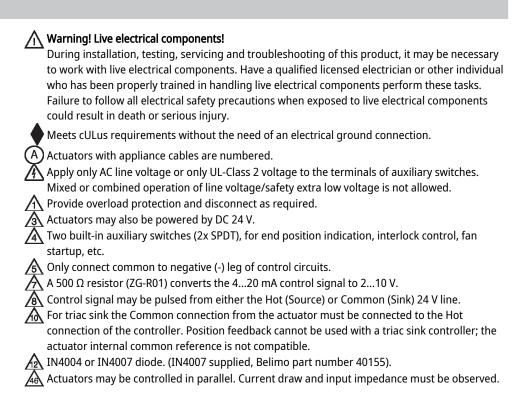
Footnotes \*Variable when configured with MFT options.

#### 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





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