

Technical data sheet

G765S-250





Type overview

Туре	DN
G765S-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
	Flow characteristic	linear
	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	Stainless steel
	Spindle	316 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))

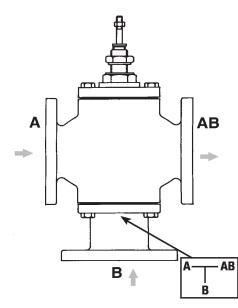
Safety notes

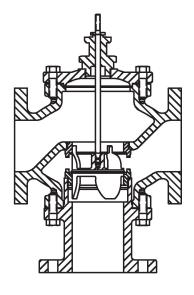


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

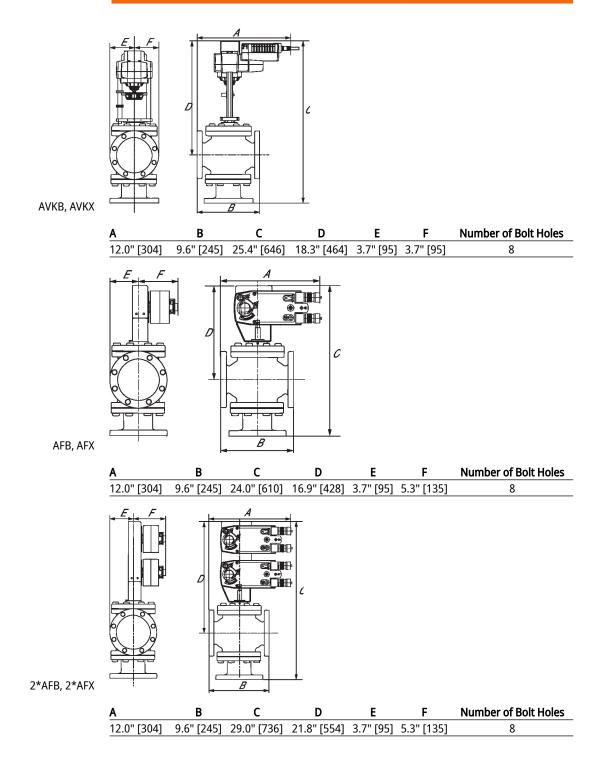




Dimensions

12.0" [304] 9.6" [245] 25.4" [646] 18.3" [464] 3.7" [95] 3.7" [95] 8 Image: start of the start of	Type G765S-250					DN 65
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2*GMB, 2*GMX, 2*GKB, 2*GKX A B C D E F Number of Bolt Hole						Number of Bolt Holes
	2*GMB, 2*GMX, 2*GKB, 2*GKX				<u></u>	
12.0" [304] 9.6" [245] 29.0" [736] 21.8" [554] 3.7" [95] 5.3" [135] 8		A 12.0" [304]	B C 9.6" [245] 29.0" [736]			Number of Bolt Holes 8







Multi-Function Technology®

Modulating, Non-Spring Return, Linear, 24 V,

Technical data sheet

RVX24-MFT





Technical data

Nominal voltage frequency50/60 HzPower consumption in operation6 W	
Power consumption in rest position 1.5 W	
Transformer sizing 11 VA (class 2 power source)	
Electrical Connection 18 GA plenum cable, 3 ft [1 m], wi conduit connector, degree of prot 2 / IP54	
Overload Protection electronic throughout full stroke	
Electrical Protection actuators are double insulated	
Functional data Actuating force motor 4500 N [1010 lbf]	
Operating range Y 210 V	
Operating range Y note $420 \text{ mA w}/\text{ZG-R01}$ (500 Ω , 1/4 V	V resistor)
Input Impedance 100 kΩ for 210 V (0.1 mA), 500 Ω mA, 1500 Ω for On/Off	Ω for 420
Operating range Y variable Start point 0.530 V End point 2.532 V	
Options positioning signal variable (VDC, on/off, floating poi	nt)
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	
Manual override 5 mm hex crank (3/16" Allen), sup	plied
Stroke 2" [50 mm]	
Running Time (Motor) 90 s /	
Running time motor variable 90150 s	
Noise level, motor 65 dB(A)	
Position indication Mechanically, with pointer	
Safety data Degree of protection IEC/EN IP54	
Degree of protection NEMA/UL NEMA 2	
Enclosure UL Enclosure Type 2	
Agency Listing cULus acc. to UL60730-1A/-2-14, C E60730-1:02, CE acc. to 2014/30/E 2014/35/EU	
Quality Standard ISO 9001	
Ambient temperature-22122°F [-3050°C]	
Storage temperature -40176°F [-4080°C]	
Ambient humidity Max. 95% RH, non-condensing	
Servicing maintenance-free	



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 Materials
 Housing material
 Die cast aluminium and plastic casing

Footnotes † Use flexible metal conduit. Push the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 800V. Type of action 1. Control pollution degree 3.

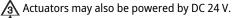
Accessories

Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to Modbus RTU	UK24MOD
	Gateway MP to LonWorks	UK24LON
Electrical accessories	Description	Туре
	Battery backup system, for non-spring return models	NSV24 US
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
	Belimo PC-Tool, Software for adjustments and diagnostics	MFT-P
	Auxiliary switch 2 x SPDT for NG GV Actuators	S2A-GV
	Service Tool, with ZIP-USB function, for programmable and	ZTH US
	communicative Belimo actuators, VAV controller and HVAC performance devices	
Service 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

X INSTALLATION NOTES

Actuators may be connected in parallel. Power consumption and input impedance must be observed.



A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 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 the controller. Contact closures A & B also can be triacs. A & B should both be closed for the triac source and 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.

A 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.





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