

Technical data sheet

G665C-250





Type overview

Туре	DN
G665C-250	65

Technical data

Functional data	Valve size [mm]	2.5" [65]
	Fluid	chilled or hot water, up to 60% glycol, steam
	Fluid Temp Range (water)	32350°F [0176°C]
	Fluid Temp Range (steam)	32280°F [0138°C]
	Body Pressure Rating	ANSI Class 250, up to 280 psi below 350°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
	Leakage rate	ANSI Class III
	Controllable flow range	stem up - open A – AB
	Cv	65
	Maximum Inlet Pressure (Steam)	35 psi [241 kPa]
Materials	Valve body	Cast iron - ASTM A126 Class B
	Valve plug	bronze
	Stem	stainless steel
	Stem seal	NLP EPDM (no lip packing)
	Seat	Stainless steel AISI 316
	Pipe connection	250 lb flanged
Suitable actuators	Non-Spring	EVB(X)
	Spring	AF
	Electrical fail-safe	AVKB(X)

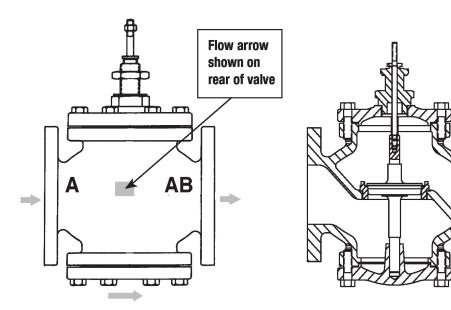
Safety notes



- 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 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.



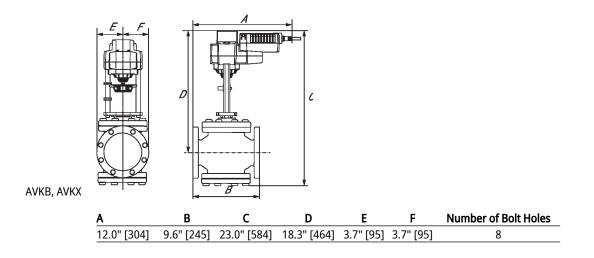
Flow/Mounting details



Dimensions

Type G665C-250		DN 65		Weight 61.73 lb [28 kg]	
	EVB, EVX, RVB, RVX				
		A B 12.0" [304] 9.6" [245]	C D 23.0" [584] 18.3" [464]	E F 3.7" [95] 3.7" [95]	Number of Bolt Holes 8
	AFB, AFX				
		A B 12.0" [304] 9.6" [245]	C D 21.7" [550] 16.9" [428]	E F 3.7" [95] 5.3" [135]	Number of Bolt Holes 8







Multi-Function Technology®

Modulating, Fail-Safe Operation, Linear, 24 V,

Technical data sheet

AVKB24-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	2000 N [450 lbf]
	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
	Position feedback U note	Max. 0.5 mA
	Position feedback U variable	VDC variable
	Bridging time (PF)	2 s
	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)	90 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
	Enclosure	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



Technical data sheet

AVKB24-MF

Safety data	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	Max. 95% RH, non-condensing
	Servicing	maintenance-free
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
	Service Tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US
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

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



Actuators may also be powered by DC 24 V.

closed for the triac source and open for triac sink.

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. A 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



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! 八

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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