

ANSI-Flanged Globe Valves

- chilled or hot water, up to 60% glycol, steam
- ANSI Class 250, up to 280 psi below 350°F
- 250
- Cast iron ASTM A126 Class B





Picture may differ from product

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Type overview			
Гуре			DN
6125C-250			5" [125]
echnical data			
	Functional data	Valve size [mm]	5" [125]
		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
		Leakage rate	ANSI Class III
		Pipe connection	Flange for use with ASME/ANSI class 250
		Servicing	repack/rebuild kits available
		Rangeability Sv	100:1
		Max Differential Pressure (Steam)	15 psi [103 kPa]
		Flow Pattern	2-way
		Controllable flow range	stem up - open A – AB
		Cv	263
		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
	Cuitable estuateur	New Fell Cofe	EVD(V)
	Suitable actuators	Non Fail-Safe	EVB(X)

AVKB(X)

Electronic fail-safe



Safety notes

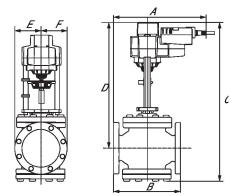


- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

Dimensions

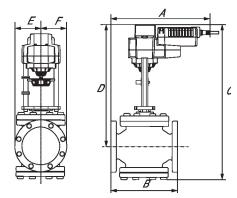
 Type
 DN
 Weight

 G6125C-250
 5" [125]
 150 lb [67 kg]



EVB, EVX, RVB, RVX

Α	В	С	D	E	F	Number of Bolt Holes
15.1" [383]	16.6" [422]	25.4" [646]	17.5" [445]	5.5" [140]	5.5" [140]	8

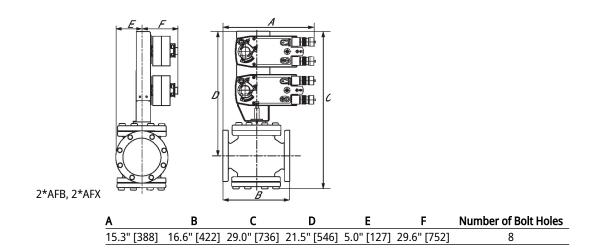


AVKB, AVKX

Α	В	D	E	F	Number of Bolt Holes
15.5" [394]	16.6" [422]	17.5" [445]	5.5" [140]	5.5" [140]	8



Dimensions





MFT/programmable, Electronic fail-safe, 24 V





5-year warranty





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	5 W
	Power consumption in rest position	2 W
	Transformer sizing	9.5 VA
	Electrical Connection	18 GA plenum cable, 1 m, with 1/2" NPT 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
	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
	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

60 dB(A)

Noise level, motor



Technical data Functional data Noise level, fail-safe 60 dB(A) Position indication Mechanical, with pointer Safety data Power source UL Class 2 Supply Degree of protection IEC/EN IP54 Degree of protection NEMA/UL NEMA 2 **UL Enclosure Type 2 Enclosure** cULus acc. to UL60730-1A/-2-14, CAN/CSA **Agency Listing** E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU **Quality Standard** ISO 9001 Ambient humidity Max. 95% RH, non-condensing Ambient temperature -22...122°F [-30...50°C] Storage temperature -40...176°F [-40...80°C] Servicing maintenance-free Weight Weight [] 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	
Tools	Description	Туре	
	Connecting 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	ZTH US	

Electrical installation



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

🛕 Actuators may also be powered by DC 24 V.

 Λ 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.





Electrical installation



Meets cULus requirements without the need of an electrical ground connection.

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.

Wiring diagrams

