

Technical data sheet





G7125

Type overview

Туре	DN
G7125S	125

Technical data

Functional data	Valve size [mm]	5" [125]	
	Fluid	chilled or hot water, up to 60% glycol	
	Fluid Temp Range (water)	32350°F [0176°C]	
	Body Pressure Rating	ANSI Class 125, up to 175 psi below 150°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	280	
Materials	Valve body	Cast iron - ASTM A126 Class B	
	Valve plug	Stainless steel	
	Stem	316 stainless steel	
	Stem seal	NLP EPDM (no lip packing)	
	Seat	Stainless steel AISI 316	
	Pipe connection	125 lb flanged	
Suitable actuators	Non-Spring	RVB(X)	
	Electrical fail-safe	(2*GKB(X))	

Safety notes



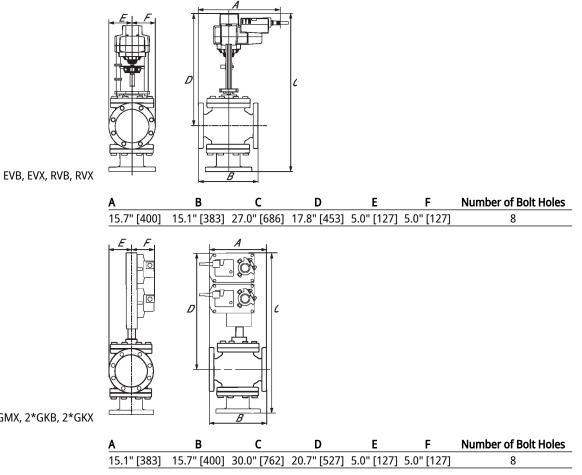
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

- 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.

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L)IME	ensions

Туре	DN	Weight	
G7125S	125	154.35 lb [70 kg]	





2*GMB, 2*GMX, 2*GKB, 2*GKX



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2*GKX24-MFT-X1





Technical data

Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	12 W
	Power consumption in rest position	3 W
	Transformer sizing	40 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable with 1/2" conduit connector, degree of protection NEMA 2 / IP54, 3 ft [1 m] 10 ft [3 m] and 16ft [5 m]
	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 kΩ 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, 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
	Bridging time (PF) variable	010 s
	Pre-charging time	520 s
	Direction of motion motor	selectable with switch 0/1
	Direction of motion fail-safe	reversible with switch
	Manual override	external push button
	Angle of rotation	Max. 95°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	150 s / 90°
	Running time motor variable	95150 s
	Running time fail-safe	<35 s
	Noise level, motor	52 dB(A)
	Noise level, fail-safe	61 dB(A)
	Position indication	Mechanically, 3065 mm stroke
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; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
	Quality Standard	ISO 9001

BELIMO	Technical data sheet	2*GKX24-MFT-X1
Safety data	Ambient temperature -22122°F [30 50°C1
	Storage temperature -40176°F [
		l, non-condensing
	Servicing maintenance	5
Materials		
Footnotes	†Rated Impulse Voltage 800V, Type of action 1.AA, Control Po	llution Degree 3
Product features		
Bridging time	Electrical interruptions can be bridged up to a maximum of 10	١s
	In the event of a power failure, the actuator will remain statio bridging time. If the power failure is greater than the set brid move into the selected fail-safe position.	nary in accordance with the set ging time, then the actuator will
	The bridging time set ex-works is 2 s. This can be modified on the Belimo service tool MFT-P.	site in operation with the use of
	Settings: The rotary knob must not be set to the "PROG FAIL-S	SAFE" position!
	For retroactive adjustments of the bridging time with the Beli ZTH EU adjustment and diagnostic device only the values need	
Accessories		
Gateways	Description	Туре
	Gateway MP to BACnet MS/TP Gateway MP to Modbus RTU Gateway MP to LonWorks	UK24BAC UK24MOD UK24LON
Electrical accessories	Description	Туре
Service tools	Feedback potentiometer 140 Ω add-on, greyFeedback potentiometer 500 Ω add-on, greyFeedback potentiometer 1 kΩ add-on, greyFeedback potentiometer 2.8 kΩ add-on, greyFeedback potentiometer 5 kΩ add-on, greyFeedback potentiometer 10 kΩ add-on, greyFeedback potentiometer 10 kΩ add-on, greyAuxiliary switch 1 x SPDT add-onAuxiliary switch 2 x SPDT add-onService Tool, with ZIP-USB function, for programmable andcommunicative Belimo actuators, VAV controller and HVAC perdevicesDescriptionConnection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidsupply connectionService Tool, with ZIP-USB function, for programmable andcommunicative Belimo actuators, VAV controller and HVAC perdevicesDescriptionConnection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidsupply connectionService Tool, with ZIP-USB function, for programmable andcommunicative Belimo actuators, VAV controller and HVAC per	Type dmüller and ZK4-GEN ZTH US
	communicative Belimo actuators, VAV controller and HVAC pe devices	rformance
Electrical installation		
	 CONTINUES Actuators with appliance cables are numbered. Provide overload protection and disconnect as required. Actuators may also be powered by DC 24 V. Only connect common to negative (-) leg of control circuits. A 500 Ω resistor (ZG-R01) converts the 420 mA control signal Control signal may be pulsed from either the Hot (Source) or For triac sink the Common connection from the actuator must connection of the controller. Position feedback cannot be use actuator internal common reference is not compatible. IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 1000 and 10000 and 10000 and 10000 and 10000000 and 10000 and 10000 and 10000 a	Common (Sink) 24 V line. It be connected to the Hot ed with a triac sink controller; the



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🙈 Actuators may be controlled in parallel. Current draw and input impedance must be observed. $/ \lambda$ Master-Slave wiring required for piggy-back applications. Feedback from Master to control input(s) of Slave(s).

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

Warning! Live electrical components! N

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.

