





5-year warranty



#### **Technical data**

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Valve Size	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
ANSI Class	125
Body pressure rating note	up to 175 psi below 150°F
Valve body	Cast iron - ASTM A126 Class B
Valve plug	bronze
Stem seal	NLP EPDM (no lip packing)
Seat	Stainless steel AISI 316
Pipe connection	125 lb flanged

## Safety notes



Suitable actuators

Non-Spring

Electronic fail-safe

Materials

 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

RVB(X)

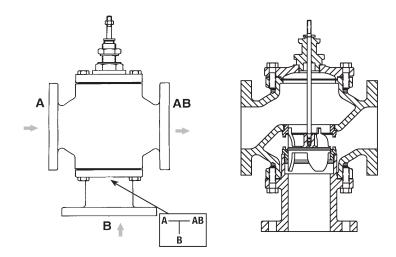
(2\*GKB(X))

- 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 authorised 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.

#### **Product features**

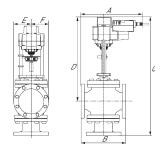


# Flow/Mounting details



# **Dimensions**

# **Dimensional drawings**



EVB, EVX, RVB, RVX

A	В	С	D	E	F	Number of Bolt Holes
15.1" [383]	15.7" [400]	27.0" [686]	17.8" [453]	5.0" [127]	5.0" [127]	8
EF						

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

Α	В	C	D	E	F	<b>Number of Bolt Holes</b>
15.1" [383]	15.7" [400]	30.0" [762]	20.7" [527]	5.0" [127]	5.0" [127]	8



On/Off, Floating Point, Non-Spring Return, Linear, 24 V









## **Technical data**

Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	6 W	
	Power consumption in rest position	1.5 W	

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	connector, degree of protection NEMA 2 / IP54
Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit
Transformer sizing	11 VA (class 2 power source)

Overload Protection	electronic throughout full stroke
Electrical Protection	actuators are double insulated

#### **Functional data**

Actuating force motor	1010 lbf [4500 N]
Input Impedance	100 k $\Omega$ (0.1 mA), 500 $\Omega$ , 1000 $\Omega$ (on/off)
Position feedback U note	No Feedback
Direction of motion motor	selectable with switch
Manual override	5 mm hex crank (3/16" Allen), supplied
Stroke	2" [50 mm]
Running Time (Motor)	90 s, constant, independent of load
Running time motor note	constant, independent of load
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 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
Ambient temperature	-22122°F [-3050°C]
Storage temperature	-40176°F [-4080°C]
Ambient humidity	max. 95% r.H., non-condensing
Servicing	maintenance-free
Weight	9.02 lb [4.1 kg]

# Weight

MaterialsHousing materialDie cast aluminium and plastic of
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## Safety notes



- PVC W'Shld for GV w/UGLK (GM)
- Battery Back Up System for SY(7~10)-110
- 120 to 24 VAC, 40 VA transformer.
- 50% voltage divider kit (resistors with wires).
- PC Tool computer programming interface, serial port.



#### **Electrical installation**

## > INSTALLATION NOTES

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

Actuators may also be powered by 24 VDC.

💫 Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.

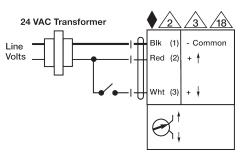
Year triac sink the common connection from the actuator must be connected to the hot connection of the controller. Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink.

Actuators with plenum cable do not have numbers; use color codes instead.

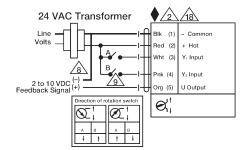
Meets cULus requirements without the need of an electrical ground connection.

#### **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.



On/Off



Floating Point