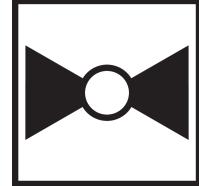




5-year warranty



Technical data

Functional data	
Valve Size	4" [100]
Fluid	chilled or hot water, up to 60% glycol, steam
Fluid Temp Range (water)	32...338°F [0...138°C]
Fluid Temp Range (steam)	32...280°F [0...138°C]
Body Pressure Rating	ANSI Class 125, up to 175 psi below 150°F
Flow characteristic	equal percentage
Servicing	repack/rebuild kits available
Rangeability Sv	98:1
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	170
Maximum Inlet Pressure (Steam)	35 psi [241 kPa]
ANSI Class	125
Body pressure rating note	up to 175 psi below 150°F
Materials	
Valve body	Cast iron - ASTM A126 Class B
Valve plug	brass
Stem seal	NLP EPDM (no lip packing)
Seat	Stainless steel AISI 316
Pipe connection	125 lb flanged
Suitable actuators	
Non-Spring	EVB(X)
Electronic fail-safe	AVKB(X)

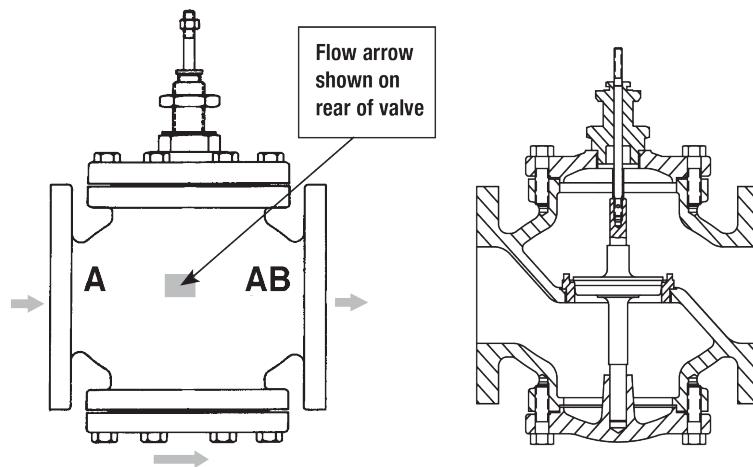
Safety notes



- **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 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

A	B	C	D	E	F	Number of Bolt Holes
13.7" [349]	13.0" [330]	26.6" [676]	19.8" [502]	4.5" [114]	4.5" [114]	8
EVB, EVX, RVB, RVX						
2*AFB, 2*AFX						
A	B	C	D	E	F	Number of Bolt Holes
13.7" [349]	13.0" [330]	30.0" [762]	23.2" [590]	4.5" [114]	5.3" [135]	8
AVKB, AVKX						
A	B	C	D	E	F	Number of Bolt Holes
13.7" [349]	13.0" [330]	26.6" [676]	19.8" [502]	4.5" [114]	4.5" [114]	8



5-year warranty



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	1.5 W
Transformer sizing	7.5 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	560 lbf [2500 N]
Operating range Y	2...10 V
Operating range Y note	4...20 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
Input Impedance	100 kΩ for 2...10 V (0.1 mA), 500 Ω for 4...20 mA
Position feedback U	2...10 V
Direction of motion motor	selectable with switch 0/1
Manual override	5 mm hex crank (3/16" Allen), supplied
Stroke	2" [50 mm]
Running Time (Motor)	default 90 s, variable 90 or 150 s
Running time motor variable	90 or 150 s
Noise level, motor	60 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; 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
Ambient temperature	-22...122°F [-30...50°C]
Storage temperature	-40...176°F [-40...80°C]
Ambient humidity	max. 95% r.H., non-condensing
Servicing	maintenance-free
Weight	
Weight	5.73 lb [2.6 kg]
Materials	
Housing material	Die cast aluminium and plastic casing

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

3 Actuators may also be powered by 24 VDC.

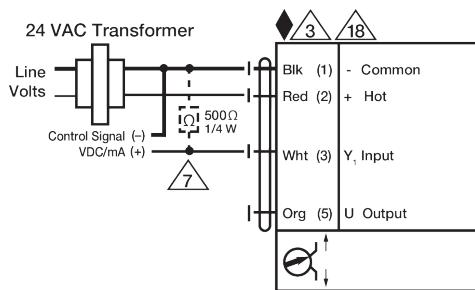
 A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

 18 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.



VDC / 4 to 20 mA