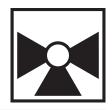






5-year warranty



Technical data

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Valve Size	4" [100]	
Fluid	chilled or hot water, up to 60% glycol	
Fluid Temp Range (water)	32300°F [0149°C]	
Body Pressure Rating	ANSI Class 250, up to 280 psi below 350°F	
Flow characteristic	linear	
Servicing	repack/rebuild kits available	
Rangeability Sv	50:1	
Flow Pattern	3-way Diverting	
Leakage rate	ANSI Class III	
Controllable flow range	stem up - open AB – B	
Cv	154	
ANSI Class	250	
Body pressure rating note	up to 280 psi below 350°F	
Valve body	Cast iron - ASTM A126 Class B	
Valve plug	Stainless steel	
Stem seal	NLP EPDM (no lip packing)	
Seat	Stainless steel AISI 316	
Pipe connection	250 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

EVB(X)

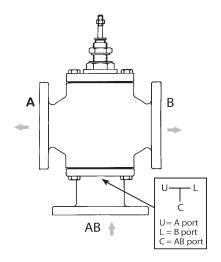
AVKB(X)

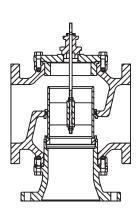
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and
 must not be used outside the specified field of application, especially in aircraft or in any other airborne
 means of transport.
- Only authorised specialists may carry out installation. All applicable 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



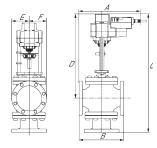
Flow/Mounting details



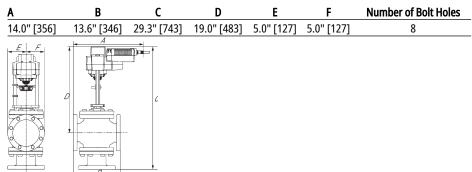


Dimensions

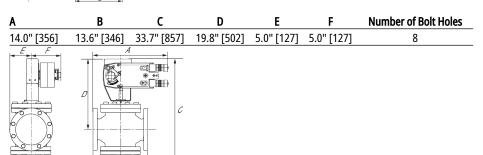
Dimensional drawings



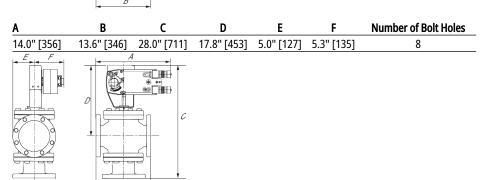
EVB, EVX, RVB, RVX



AVKB, AVKX



AFB, AFX



AFB, AFX



Technical data sheet G7100DS-250

 A
 B
 C
 D
 E
 F
 Number of Bolt Holes

 14.0" [356]
 13.6" [346]
 28.0" [711]
 17.8" [453]
 5.0" [127]
 5.3" [135]
 8

Modulating, Non-Spring Return, Linear, 24 V, for DC 2...10 V or 4...20 mA









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	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
	Position feedback U	210 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)	90 s, constant, independent of load
	Running time motor note	constant, independent of load
	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	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	max. 95% r.H., non-condensing
	Servicing	maintenance-free

Safety notes

5.73 lb [2.6 kg]

Die cast aluminium and plastic casing

Weight

Materials

Weight

Housing material





- 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 also be powered by 24 VDC.

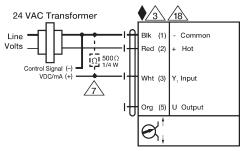
A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

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