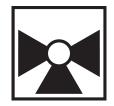






5-year warranty



### **Technical data**

### **Functional data**

Valve Size	3" [80]		
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	85		
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)

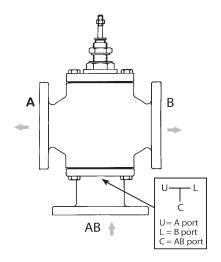
AVKB(X)

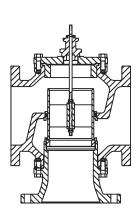
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and
  must not be used outside the specified field of application, especially in aircraft or in any other airborne
  means of transport.
- Only authorised specialists may carry out installation. All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



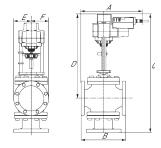
### Flow/Mounting details



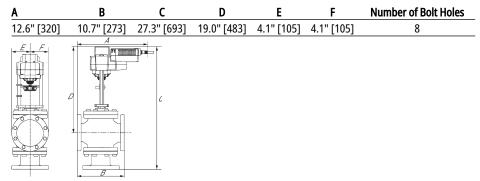


## **Dimensions**

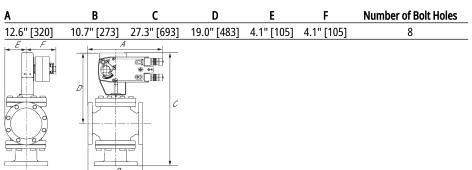
## Dimensional drawings



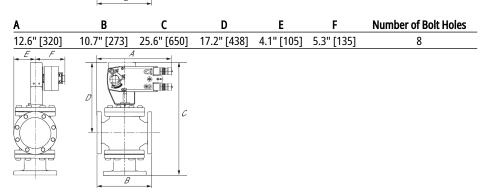
EVB, EVX, RVB, RVX



AVKB, AVKX



AFB, AFX



AFB, AFX



Technical data sheet G780DS-250

A	В	C	D	E	F	<b>Number of Bolt Holes</b>
12.6" [320]	10.7" [273]	25.6" [650]	17.2" [438]	4.1" [105]	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 $\Omega$ for 210 V (0.1 mA), 500 $\Omega$ 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)	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	-22122°F [-3050°C]	
		Storage temperature	-40176°F [-4080°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

Technical data sheet EVX24-SR



- 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.

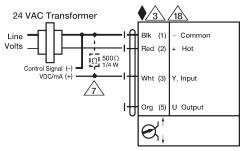
 $_{\Delta}$  A 500  $\Omega$  resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

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