

## G780DS-250







#### **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		
	Сv	85		
	ANSI Class	250		
	Body pressure rating note	up to 280 psi below 350°F		
Materials	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		
Suitable actuators	Non-Spring	EVB(X)		
	Electronic fail-safe	AVKB(X)		

#### Safety notes



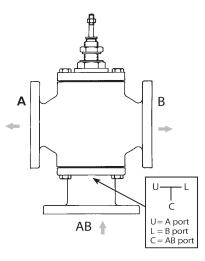
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used 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.

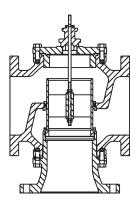
#### **Product features**



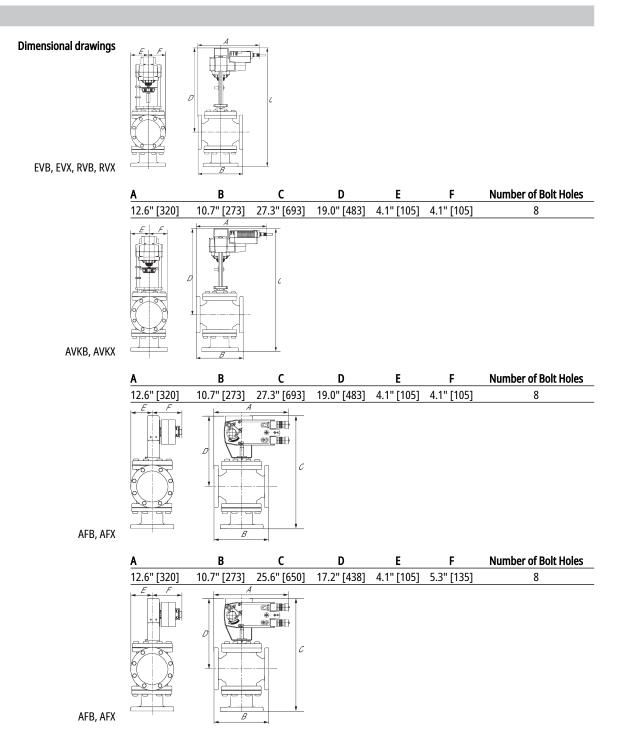
# Technical data sheet

# Flow/Mounting details





### Dimensions





Technica	l data shee	et			G780DS-250	
A	В	с	D	E	F	Number of Bolt Holes
12.6" [320]	10.7" [273]	25.6" [650]	17.2" [438]	4.1" [105]	5.3" [135]	8



On/Off, Floating Point, Electronic Fail-Safe, Linear, 24 V

**Technical data sheet** 

# **AVKB24-3**





# Technical data

Electrical data	Nominal voltage	AC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	5 W		
	Power consumption in rest position	2 W		
	Transformer sizing	9.5 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	450 lbf [2000 N]		
	Input Impedance	100 kΩ (0.1 mA), 500 Ω, 1000 Ω (on/off)		
	Position feedback U note	No Feedback		
	Bridging time	2 s delay before fail-safe activates		
	Pre-charging time	520 s		
	Direction of motion motor	selectable with switch		
	Direction of motion fail-safe	reversible with switch		
	Manual override	5 mm hex crank (3/16" Allen), supplied		
	Stroke	1.25" [32 mm]		
	Running Time (Motor)	90 s, constant, independent of load		
	Running time motor note	constant, independent of load		
	Running time fail-safe	<35 s		
	Noise level, motor	60 dB(A)		
	Noise level, fail-safe	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		
	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	6.39 lb [2.9 kg]		
Materials	Housing material	Die cast aluminium and plastic casing		

Safety notes



# **Technical data sheet**

- 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**

## X INSTALLATION NOTES

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

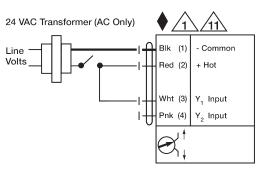
- /1 Provide overload protection and disconnect as required.
  - Actuators may be connected in parallel. Power consumption and input impedance must be observed.
- \land Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.

A Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

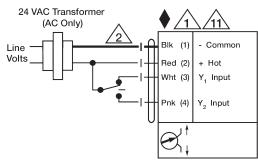
Actuators with plenum cable do not have numbers; use color codes instead.

#### Varning! 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**