

G780S-250







Technical data

Functional data	Valve Size	3" [80]		
	Fluid	chilled or hot water, up to 60% glycol		
	Fluid Temp Range (water)	32350°F [0176°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 Mixing		
	Leakage rate	ANSI Class III		
	Controllable flow range	stem up - open B – AB		
	Cv	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	RVB(X) AVKB(X)		
		(2*GKB(X))		

Safety notes



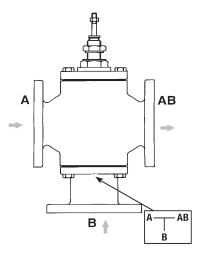
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

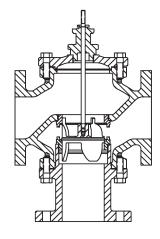
Product features



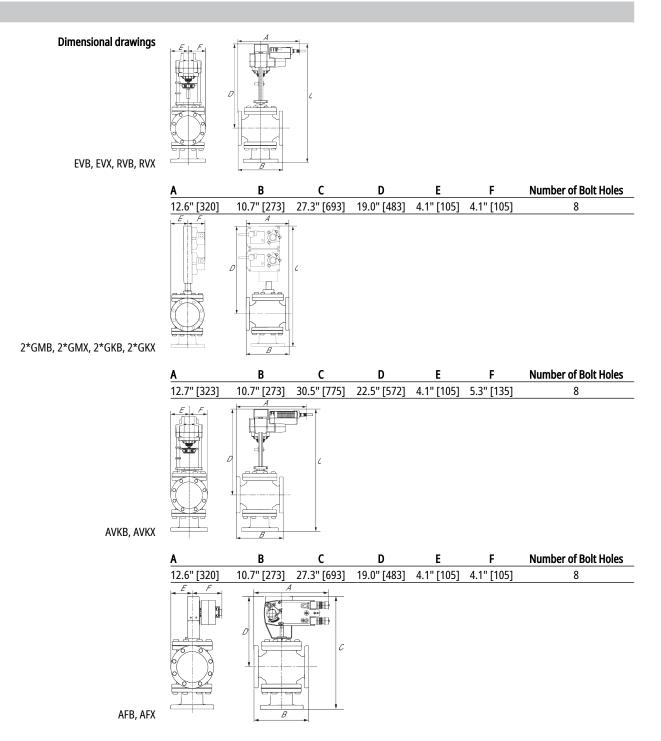
Technical data sheet

Flow/Mounting details





Dimensions





2*AFB,

Technic	Technical data sheet				G780S-250	
Α	В	с	D	E	F	Number of Bolt Holes
12.7" [323]	10.7" [273]	25.6" [650]	17.5" [445]	4.1" [105]	5.3" [135]	8
Α	В	С	D	Е	F	Number of Bolt Holes
12.7" [323]	10.7" [273]	30.5" [775]	22.5" [572]	A 1" [105]	5 3" [135]	8



Modulating, Non-Spring Return, Linear, 24 V, Multi-Function Technology® **Technical data sheet**

RVX24-MFT

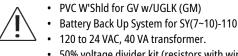




Technical data

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	
	Transformer sizing	11 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	1010 lbf [4500 N]	
	Operating range Y	210 V	
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)	
	Input Impedance	100 kΩ for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for On/Off	
	Operating range Y variable	Start point 0.530 V End point 2.532 V	
	Options positioning signal	variable (VDC, on/off, floating point)	
	Position feedback U	210 V	
	Position feedback U note	Max. 0.5 mA	
	Position feedback U variable	VDC variable	
	Direction of motion motor	selectable with switch	
	Manual override	5 mm hex crank (3/16" Allen), supplied	
	Stroke	2" [50 mm]	
	Running Time (Motor)	default 90 s, variable 90150 s	
	Running time motor variable	90150 s	
	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	Weight	9.02 lb [4.1 kg]	
Materials	Housing material	Die cast aluminium and plastic casing	





- 50% voltage divider kit (resistors with wires).
- PC Tool computer programming interface, serial port.

Accessories

Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to LonWorks	UK24LON
	Gateway MP to Modbus RTU	UK24MOD
Service tools	Description	Туре
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN
	Service Tool, with ZIP-USB function, for parametrisable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US

Electrical installation



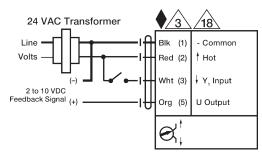
X INSTALLATION NOTES

- Actuators may be connected in parallel. Power consumption and input impedance must be observed. Actuators may also be powered by 24 VDC.
- $/ \overline{2}$ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.
 - Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.
 - For 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.

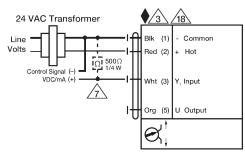


Warning! Live Electrical Components! During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical

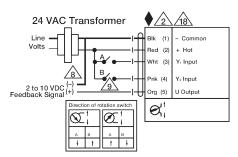
safety precautions when exposed to live electrical components could result in death or serious injury.



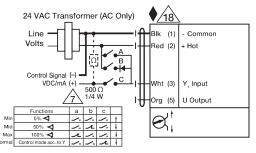
On/Off



VDC / 4 to 20 mA



Floating Point



Override Control Min, Mid, Max Positions