





G780S



Technical data

Functional data	Valve Size	3" [80]		
	Fluid	chilled or hot water, up to 60% glycol		
	Fluid Temp Range (water)	-20350°F [-30176°C]		
	Body Pressure Rating	ANSI Class 125, up to 175 psi below 150°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	125		
	Body pressure rating note	up to 175 psi below 150°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	125 lb flanged		
Suitable actuators	Non-Spring	EVB(X)		
		RVB(X)		
	Electronic fail-safe	AVKB(X)		
		(2*GKB(X))		

Safety notes



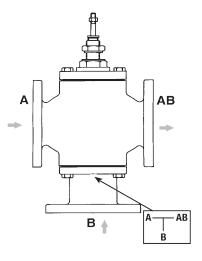
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

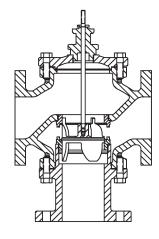
Product features



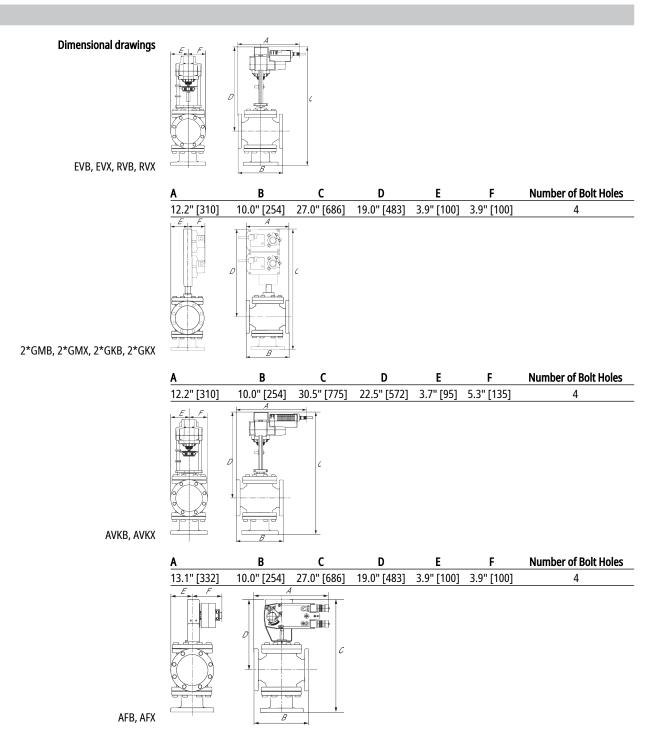
Technical data sheet

Flow/Mounting details





Dimensions





2*AFB,

Technical data sheet						G780
A	В	С	D	Е	F	Number of Bolt Hole
12.2" [310]	10.0" [254]	25.6" [650]	17.5" [445]	3.7" [95]	5.3" [135]	4
Α	В	С	D	E	F	Number of Bolt Hole
12.2" [310]	10.0" [254]	30.5" [775]	22.5" [572]	3.7" [95]	5.3" [135]	4



Technical data sheet

AFBUP-S-X1





Technical data

Electrical data	Nominal voltage	AC 24240 V / DC 24125 V		
	Nominal voltage frequency	50/60 Hz		
	Power consumption in operation	7.5 W		
	Power consumption in rest position	3.5 W		
	Transformer sizing	7 VA @ AC 24 V (class 2 power source), 8.5 VA @ AC 120 V, 18 VA @ AC 240 V		
	Auxiliary switch	2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 1090°		
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V		
	Electrical Connection	(2) 18 GA appliance cables with 1/2" conduit connectors, 3 ft [1 m],		
	Overload Protection	electronic throughout 095° rotation		
Functional data	Position feedback U note	No Feedback		
	Direction of motion motor	selectable by ccw/cw mounting		
	Direction of motion fail-safe	reversible with cw/ccw mounting		
	Manual override	5 mm hex crank (3/16" Allen), supplied		
	Angle of rotation	95°,		
	Running Time (Motor)	75 s		
	Running time fail-safe	<20 s		
	Noise level, motor	50 dB(A)		
	Noise level, fail-safe	62 dB(A)		
	Position indication	Mechanical		
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	4.6 lb [2.1 kg]		
Materials	Housing material	Galvanized steel and plastic housing		

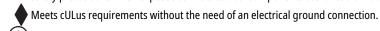
Electrical installation



Technical data sheet

/ 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.



 (\dot{A}) Actuators with appliance cables are numbered.

UP Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.

combined operation of line voltage/safety extra low voltage is not allowed.

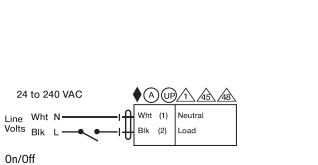
 \bigwedge Provide overload protection and disconnect as required.

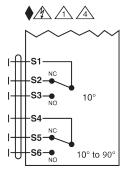
 $\Delta 3$ Actuators may also be powered by 24 VDC.

4 Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

 $_$ Actuators may be powered in parallel. Power consumption must be observed.

 $\underline{48}$ Parallel wiring required for piggy-back applications.





Auxiliary Switches