





5-year warranty



#### **Technical data**

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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 125, up to 175 psi below 150°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	125		
Body pressure rating note	up to 175 psi below 150°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	125 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)

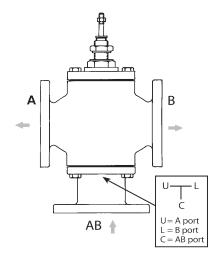
AVKB(X)

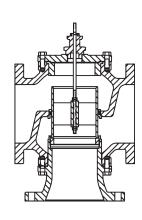
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and
  must not be used outside the specified field of application, especially in aircraft or in any other airborne
  means of transport.
- Only authorised specialists may carry out installation. All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



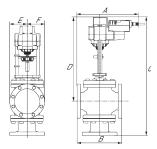
# Flow/Mounting details



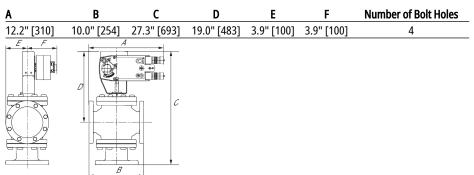


# **Dimensions**

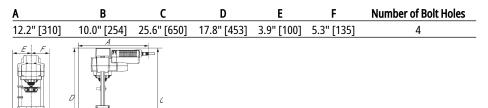
# **Dimensional drawings**



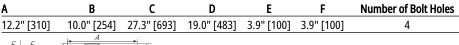
EVB, EVX, RVB, RVX

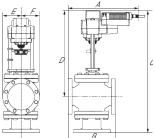


AFB, AFX



AVKB, AVKX





AVKB, AVKX



Technical data sheet G780DS

A	В	C	D	E	F	<b>Number of Bolt Holes</b>
12.2" [310]	10.0" [254]	27.3" [693]	19.0" [483]	3.9" [100]	3.9" [100]	4



Modulating, Spring Return, 24 V, 0 to 135  $\Omega$  Input







Technical data		
Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	7.5 W
	Power consumption in rest position	3 W
	Transformer sizing	10 VA (class 2 power source)
	Electrical Connection	18 GA appliance cable, 3ft [1m] 10ft [3m] and 16f [5m], with 1/2" conduit connector, degree of protection NEMA 2 / IP54
	Overload Protection	electronic throughout 095° rotation
Functional data	Operating range Y	0135 Ω
	Operating range Y note	Honeywell Electronic Series 90, input 0135 $\Omega$
	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 0/1
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Angle of rotation	95°, adjustable with mechanical end stop, 3595
	Angle of rotation note	adjustable with mechanical end stop, 3595°
	Running Time (Motor)	default 150 s, variable 70220 s
	Running time motor variable	70220 s
	Running time fail-safe	<20 s
	Override control	MIN (minimum position) = 0% MID (intermediate position) = 50% MAX (maximum position) = 100%
	Noise level, motor	40 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
	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**

# / 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.

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

Provide overload protection and disconnect as required.

Actuators may also be powered by 24 VDC.

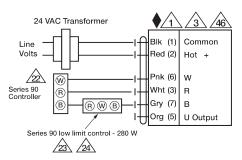
Actuators and controller must have separate transformers.

Consult controller instruction data for more detailed information.

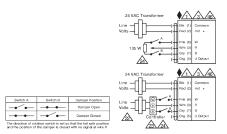
Resistor value depends on the type of controller and the number of actuators. No resistor is used for one actuator. Honeywell® resistor kits may also be used.

To reverse control rotation, use the reversing switch.

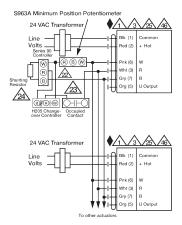
Actuators may be controlled in parallel. Current draw and input impedance must be observed.



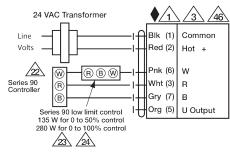
**High Limit Control** 



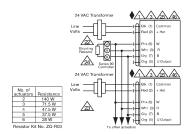
Typical and Override Control



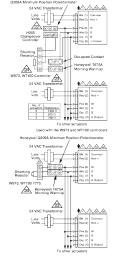
Multiple Actuators with Minimum Position Potentiometer



**Low Limit Control** 



**Multiple Actuators** 



Multiple Actuators Used with W973, W7100 and T775