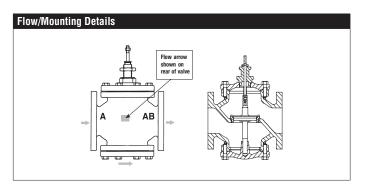
## **G6150CS Technical Data Sheet**







Technical Data			
Fluid	chilled or hot water, up to 60% glycol,		
	steam		
Flow characteristic	equal percentage		
Controllable flow range	stem up - open A – AB		
Valve Size [mm]	6" [150]		
Pipe connection	125 lb flanged		
Housing	Cast iron - ASTM A126 Class B		
Stem	316 stainless steel		
Stem seal	NLP EPDM (no lip packing)		
Seat	Stainless steel AISI 316		
Valve plug	Stainless steel		
Body Pressure Rating	ANSI Class 125, up to 175 psi below 150°F		
ANSI Class	125		
Number of Bolt Holes	8		
Maximum Inlet Pressure (Steam)	100 psi [690 kPa]		
Max Differential Pressure (Steam)	50 psi [345 kPa]		
Rangeability Sv	98:1		
Cv	344		
Weight	196.25 lb [89 kg]		
Fluid Temp Range (water)	32350°F [0176°C]		
Leakage rate	ANSI Class III		
Servicing	repack/rebuild kits available		
· · · · · · · · · · · · · · · · · · ·			

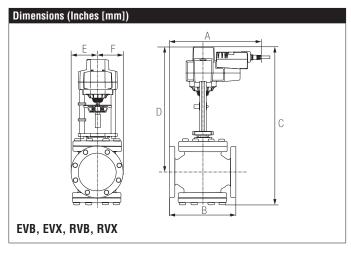


### **Application**

This valve is typically used in large air handling units on heating or cooling coils. This valve is suitable for use in a hydronic system with variable flow. Bronze or stainless steel trim valves can be used for steam applications, depending on actuator and close-off combination.

**Suitable Actuators** 

	Non-Spring	Spring	Electronic fail-safe
G6150CS	EVB(X)	(2*AFB(X))	AVKB(X)



Α	В	С	D	Е	F
16.1" [410]	17.8" [451]	27.9" [708]	19.4" [492]	5.6"	[142]

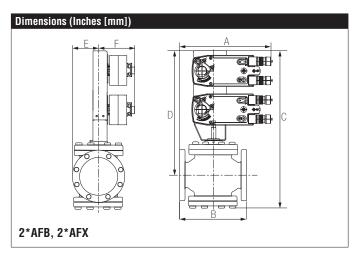
### Safety Notes

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

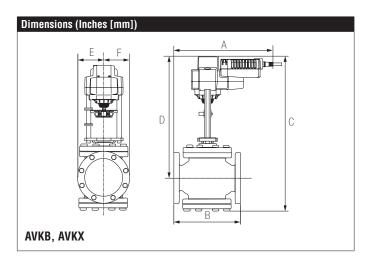
#### Piping

The valves should be mounted in a weather-protected area in a location that is within the ambient limits of the actuator. Allow sufficient room for valve with actuator and for service. The preferred mounting position of the valve is with the valve stem vertical above the valve body, for maximum life. However, the assemblies can be mounted with valve stem vertical above the valve or up to 45° in relation to the horizontal pipe. The actuators should never be mounted underneath the valve, as condensation can build up and result in a failure of the actuators. Do not reverse flow direction.

# **G6150CS Technical Data Sheet**



Α	В	С	D	E	F
16.1" [410]	17.8" [451]	31.4" [797]	22.8" [578]	5.6" [142]	5.5" [140]



A	В	C	D	E	F
16.1" [410]	17.8" [451]	27.9" [708]	19.4" [492]	5.6"	[142]

# **AVKB24-3 Technical Data Sheet**

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









	KEG. EQUIR		
Technical Data			
Power Supply	24 VAC, ±20%, 50/60 Hz		
Power consumption in operation	5 W		
Power consumption in rest	2 W		
position			
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		
Input Impedance	100 kΩ (0.1 mA), 500 Ω, 1000 Ω (on/off)		
Position Feedback	No Feedback		
Stroke	1.25" [32 mm]		
Actuating force motor	450 lbf [2000 N]		
Direction of motion motor	selectable with switch		
Direction of motion fail-safe	reversible with switch		
Position indication	Mechanically, with pointer		
Manual override	5 mm hex crank (3/16" Allen), supplied		
Running Time (Motor)	90 s, constant, independent of load		
Running time fail-safe	<35 s		
Bridging time	2 s delay before fail-safe activates		
Pre-charging time	520 s		
Ambient humidity	max. 95% r.H., non-condensing		
Ambient temperature	-22122°F [-3050°C]		
Storage temperature	-40176°F [-4080°C]		
Degree of Protection	IP54, NEMA 2, UL Enclosure Type 2		
Housing material	Die cast aluminium and plastic casing		
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU		
Noise level, motor	60 dB(A)		
Noise level, fail-safe	60 dB(A)		
Servicing	maintenance-free		
Quality Standard	ISO 9001		
Weight	6.39 lb [2.9 kg]		

<sup>†</sup> Use flexible metal conduit. Push the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 800V. Type of action 1. Control pollution degree 3.



## **AVKB24-3 Technical Data Sheet**

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

### Wiring Diagrams



## X INSTALLATION NOTES



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



Provide overload protection and disconnect as required.



Actuators may be connected in parallel. Power consumption and input impedance must be observed.



Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line.



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





### 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.

