

### G7125DS







#### **Technical data**

Functional data	Valve Size	5" [125]	
	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	
	Сν	195	
	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)	
	Electronic fail-safe	AVKB(X)	

#### Safety notes

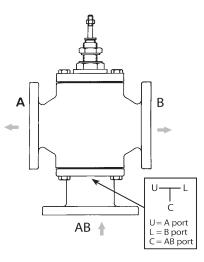


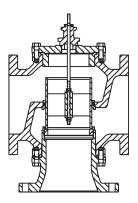
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

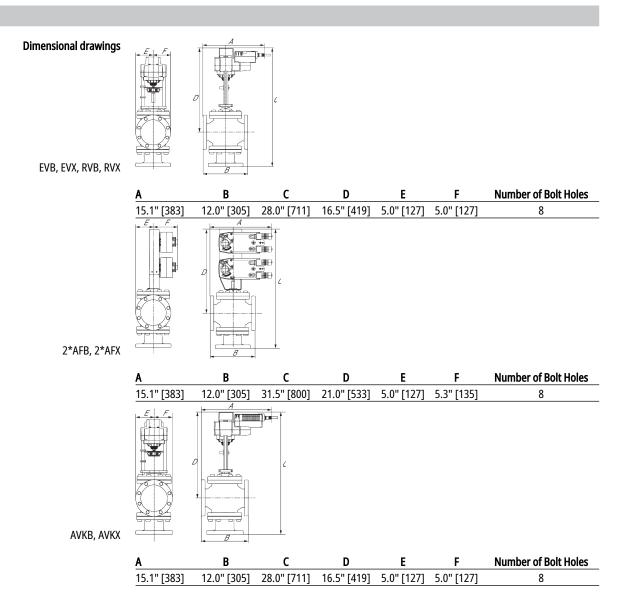


## Flow/Mounting details



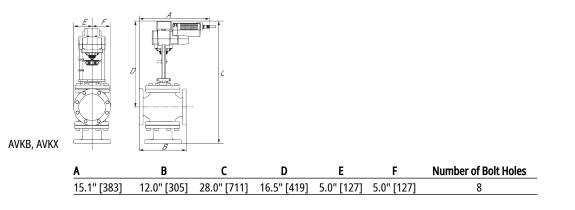


#### Dimensions











Modulating, Fail-Safe Operation, Linear, 24 V, Multi-Function Technology® **Technical data sheet** 

### AVKX24-MFT





# Technical data

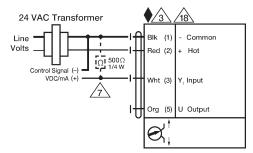
Electrical data	Nominal voltage	AC/DC 24 V	
	Nominal voltage frequency	50/60 Hz	
	Power consumption in operation	5 W	
	Power consumption in rest position	2 W	
	Transformer sizing	9.5 VA (class 2 power source)	
	Electrical Connection	18 GA plenum cable, 3 ft [1 m], with 1/2" conduit connector, degree 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]	
	Operating range Y	210 V	
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)	
	Input Impedance	100 k $\Omega$ for 210 V (0.1 mA), 500 $\Omega$ for 420 mA, 1500 $\Omega$ for PWM, On/Off and Floating point	
	Operating range Y variable	Start point 0.530 V End point 2.532 V	
	Options positioning signal	variable (VDC, PWM, on/off, floating point)	
	Position feedback U	210 V	
	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)	default 90 s, variable 90150 s	
	Running time motor variable	90150 s	
	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	
		maintenance-free	



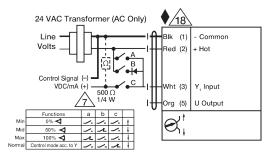
AVKX24-MFT

Weight	Weight 6.39 lb [2.9 kg]	<u>.                                    </u>
Materials	Housing material Die cast alumin	nium and plastic casing
Safety notes		
Ĺ	<ul> <li>PVC W'Shld for GV w/UGLK (GM)</li> <li>Battery Back Up System for SY(7~10)-110</li> <li>120 to 24 VAC, 40 VA transformer.</li> <li>50% voltage divider kit (resistors with wires).</li> <li>PC Tool computer programming interface, serial port.</li> </ul>	
Accessories		
Gateways	Description	Туре
	Gateway MP to BACnet MS/TP Gateway MP to LonWorks Gateway MP to Modbus RTU	UK24BAC UK24LON UK24MOD
Service tools	Description	Туре
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller connection Service Tool, with ZIP-USB function, for parametrisable and commun Belimo actuators, VAV controller and HVAC performance devices	
Electrical installation		
	For triac sink the common connection from the actuator must be cor controller. Contact closures A & B also can be triacs. A & B should bot open for triac sink. Actuators with plenum cable do not have numbers; use color codes i Meets cULus requirements without the need of an electrical ground <b>Warning! Live Electrical Components!</b> During installation, testing, servicing and troubleshooting of this pro with live electrical components. Have a qualified licensed electrician properly trained in handling live electrical components perform thes safety precautions when exposed to live electrical components could	on (Sink) 24 V line. nnected to the hot connection of the th be closed for the triac source and instead. connection. oduct, it may be necessary to work or other individual who has been se tasks. Failure to follow all electrical d result in death or serious injury.
24 VAC Transformer Line Unit Compared to the second secon	Line Volts I Hed (2) + Nmon Volts I Hed (2) + Protect 10 VDC (-) Protect 3 (-) VDC (	Common Hot I Input I Input Output





VDC / 4 to 20 mA



Override Control Min, Mid, Max Positions