





G765D



#### **Technical data**

Functional data	Valve Size	2.5" [65]	
	Fluid	chilled or hot water, up to 60% glycol	
	Fluid Temp Range (water)	32300°F [0149°C] ANSI Class 125, up to 175 psi below 150°F	
	Body Pressure Rating		
	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	68	
	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	bronze	
	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



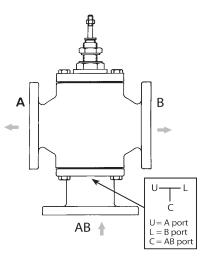
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

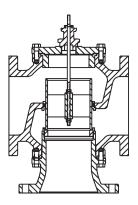
#### **Product features**



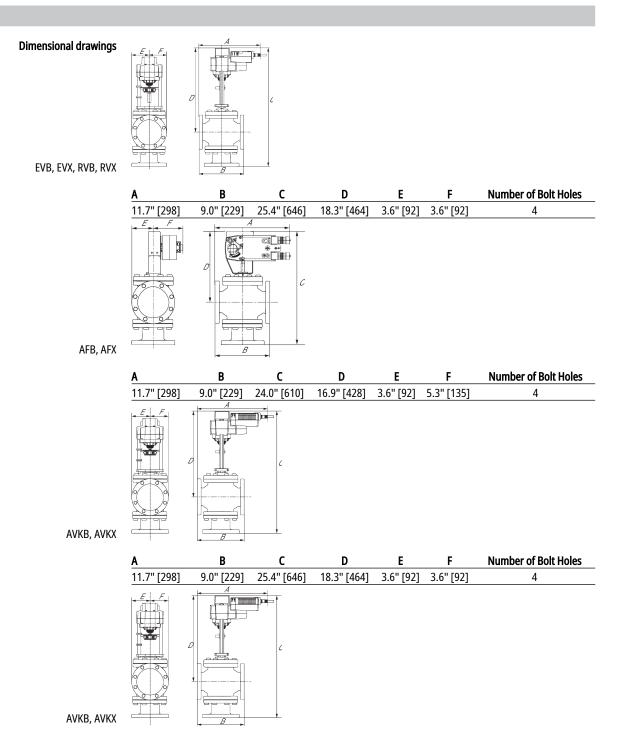
### Technical data sheet

# Flow/Mounting details





#### Dimensions





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A	В	С	D	E	F	Number of Bolt Holes
11.7" [298]	9.0" [229]	25.4" [646]	18.3" [464]	3.6" [92]	3.6" [92]	4



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

# AVKB24-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 kΩ for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω 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		
	Servicing	maintenance-free		



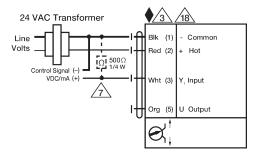
Technical data sheet

AVKB24-MFT

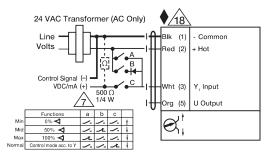
Weight	Weight	6.39 lb [2.9 kg]	
Materials	Housing material	Die cast aluminium and plastic casing	
Safety notes			
Ń	PVC W'Shld for GV w/UGLK (GM) Battery Back Up System for SY(7~10)-110 120 to 24 VAC, 40 VA transformer. 50% voltage divider kit (resistors with wires). PC Tool computer programming interface, ser	ial port.	
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	D. D. ain Weider üller and somehr	Туре
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU connection Service Tool, with ZIP-USB function, for paramet Belimo actuators, VAV controller and HVAC perfo	risable and communicative	ZK4-GEN ZTH US
Electrical installation			
	For triac sink the common connection from the controller. Contact closures A & B also can be tri open for triac sink. Actuators with plenum cable do not have numb Meets cULus requirements without the need of <b>Warning! Live Electrical Components!</b> During installation, testing, servicing and troub with live electrical components. Have a qualified properly trained in handling live electrical comp safety precautions when exposed to live electrical	acs. A & B should both be closed for ers; use color codes instead. an electrical ground connection. leshooting of this product, it may b d licensed electrician or other indiv ponents perform these tasks. Failur	or the triac source and be necessary to work idual who has been e to follow all electrical
24 VAC Transformer Line J Hard (2) Har	ut 2 to 10 VDC (-) Feedback Signal (+)	sformer $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	



# **Technical data sheet**



VDC / 4 to 20 mA



Override Control Min, Mid, Max Positions