





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



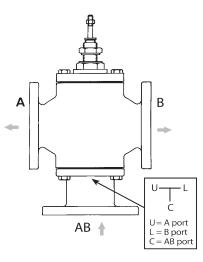
- WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov
- The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used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

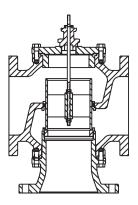
Product features



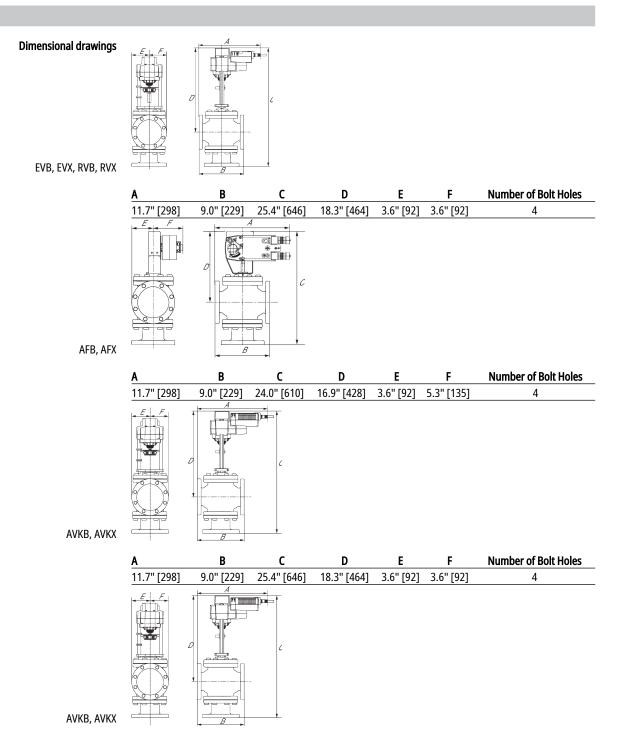
Technical data sheet

Flow/Mounting details





Dimensions





Technical data sheet						G765D
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		



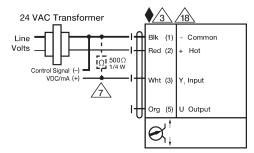
Technical data sheet

AVKB24-MFT

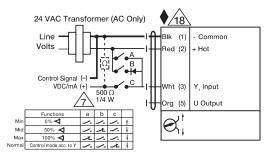
Weight	Weight	6.39 lb [2.9 kg]	
Materials	Housing material	Die cast aluminium and plastic casing	
Safety notes			
Ń	PVC W'Shld for GV w/UGLK (GM) Battery Back Up System for SY(7~10)-110 120 to 24 VAC, 40 VA transformer. 50% voltage divider kit (resistors with wires). PC Tool computer programming interface, 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 Warning! Live Electrical Components! 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