







Functional data Valve Size Commu Operation Input In Options Position Position	ng range Y ng range Y note npedance positioning signal feedback U feedback U variable g Time (Motor)	AC/DC 24 V 50/60 Hz 3" [80] BACnet IP BACnet MS/TP Modbus RTU Modbus TCP MP-Bus 210 V 420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor) 100 kΩ (0.1 mA), 500 Ω VDC variable 210 V VDC variable 90 s
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Position	feedback U variable g Time (Motor)	VDC variable
	g Time (Motor)	
Running		
	g time fail-safe	<35 s
	evel, fail-safe	45 dB(A)
	accuracy	±5%
Fluid		chilled or hot water, up to 60% glycol max (open
		loop/steam not allowed)
Fluid Te	mp Range (water)	14250°F [-10120°C]
Close-of	ff pressure Δps	310 psi
Differen	ntial Pressure Range	550 psi or 150 psi see flow reductions chart in tech doc
GPM		180
Servicin	g	maintenance-free
Manual	override	external push button
Flow measurement Measuri	ing accuracy flow	±2%*
Flow Me	easurement Repeatability	±0.5%
Sensor	Technology	ultrasonic with glycol and temperature compensation
Temperature measurement Remote	Temperature Sensor Length	Optional: 4.9 ft. [1.5m], 9.8 ft. [3m], 16.4 ft. [5m] Standard: 32.8 ft. [10m]
Safety data Degree	of protection IEC/EN	IP54
Degree	of protection NEMA/UL	NEMA 1
Enclosu	re	UL Enclosure Type 1
Agency	Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU
	Standard	ISO 9001



Technical data sheet	EV300SU-180-250+AKRX24-EV
Ambient temperature	-22122°F [-3050°C]
Storage temperature	-40176°F [-4080°C]
Ambient humidity	max. 95% r.H., non-condensing
Valve body	Cast iron - GG 25
Flow measuring pipe	Ductile cast iron - GGG50
Stem seal	EPDM (lubricated)
Seat	PTFE
Pipe connection	pattern to mate with ANSI 250 flange
O-ring	Viton
Ball	stainless steel

Safety notes



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

Product features

Flow measurement

*All flow tolerances are at 68°F [20°C] & water.

Accessories

Electrical accessories	Description	Туре
	Replacement temperature sensors for Belimo Energy Valve™, 2.56" [65150] 5 ft [1.5 m]	EV-RT-15
	Service Tool, with ZIP-USB function, for parametrisable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US
Mechanical accessories	Description	Туре
	Weather shield for Belimo Energy Valve™, 2.53" [6580], Ultrasonic models only	ZS-EPIV-EV-80U

Electrical installation

>> INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

Actuators may be connected in parallel. Power consumption and input impedance must be observed. Actuators may also be powered by 24 VDC.

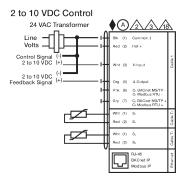
Actuators with plenum cable do not have numbers; use color codes instead.



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

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.



2...10 V, BACnet MSTP/IP, Modbus RTU/IP



Dimensions

Dimensional drawings

