



Technical data

| Electrical data | Nominal voltage | AC/DC 24 V |
|-------------------------|----------------------------------|--|
| | Nominal voltage frequency | 50/60 Hz |
| Functional data | Valve Size | 2.5" [65] |
| | Communicative control | BACnet IP |
| | | BACnet MS/TP |
| | | Modbus RTU |
| | | Modbus TCP |
| | | MP-Bus |
| | Operating range Y | 210 V |
| | Operating range Y note | 420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor) |
| | Input Impedance | 100 kΩ (0.1 mA), 500 Ω |
| | Options positioning signal | VDC variable |
| | Position feedback U | 210 V |
| | Position feedback U variable | VDC variable |
| | Running Time (Motor) | 90 s |
| | Running time fail-safe | <35 s |
| | Noise level, fail-safe | 45 dB(A) |
| | Control accuracy | ±5% |
| | Fluid | chilled or hot water, up to 60% glycol max (open loop/steam not allowed) |
| | Fluid Temp Range (water) | 14250°F [-10120°C] |
| | Close-off pressure ∆ps | 175 psi |
| | Differential Pressure Range | 550 psi or 150 psi see flow reductions chart in tech doc |
| | GPM | 127 |
| | Servicing | maintenance-free |
| | Manual override | external push button |
| Flow measurement | Measuring accuracy flow | ±2%* |
| | Flow Measurement 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 |
| | Enclosure | 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 |
| | Quality Standard | ISO 9001 |
| | · / | |



| BELIMO | Technical data sheet EV250SU | | J-127+AKRX24-EV |
|--|--|---|---------------------------|
| | Ambient temperature | -22122°F [-3050°C] | |
| | Storage temperature | -40176°F [-4080°C] | |
| | Ambient humidity | max. 95% r.H., non-condensi | ng |
| Materia | s 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 12 | 25 flange |
| | O-ring | EPDM (lubricated) | |
| | Ball | stainless steel | |
| Product features Flow measuremen Accessories | and reproductive harm. For more inf | you to lead which is known to the State of Ca formation go to www.p65warnings.ca.gov & water. | liifornia to cause cancer |
| Electrical accessorie | Description | | Туре |
| | Replacement temperature sensors for Belimo Energy Valve™, 2.56" [65150] 5 ft [1.5 m] Service Tool, with ZIP-USB function, for parametrisable and communicative | | EV-RT-15 ZTH US |
| | Belimo actuators, VAV controller and HVAC performance devices | | |
| Mechanical accessorie | Description | | Туре |
| | Weather shield for Belimo Energy Valv only | e™, 2.53" [6580], Ultrasonic models | ZS-EPIV-EV-80U |
| Electrical installation | | | |
| | K INSTALLATION NOTES | | |

CINSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

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

 $\cancel{3}$ Actuators may also be powered by 24 VDC.

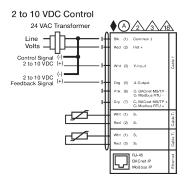
Actuators with plenum cable do not have numbers; use color codes instead.

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



Dimensional drawings

