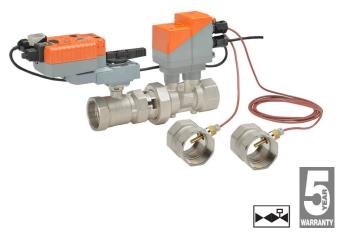
EV200S-1000, 2", Energy Valve Stainless Steel Ball and Stem, Female NPT Ends





| Service chilled or hot water, up to 60% glycol max (open loop/steam not allowed) Flow Characteristic equal percentage or linear GPM Range 30-100 Size [mm] 2" [50] End Fitting npt female ends Body forged brass, nickel plated Sensor Housing forged brass, nickel plated Ball stainless steel Stem stainless steel Stem Packing EPDM (lubricated) Seat Teflon® PTFE Seat O-ring EPDM Characterized Disc TEFZEL® Body Pressure Rating [psi] 360 Media Temperature Range (Water) Differential Pressure Range 39°F to 250°F [4°C to 120°C] (Water) 8 to 50 psid or 1 to 50 psid with flow reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity <95% RH non-condensing Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement Tolerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV | Technical Data | |
|--|---|--|
| (open loop/steam not allowed) Flow Characteristic equal percentage or linear GPM Range 30-100 Size [mm] 2" [50] End Fitting npt female ends Body forged brass, nickel plated Sensor Housing forged brass, nickel plated Sensor Housing EPDM (lubricated) Stem stainless steel Stem stainless steel Stem Packing EPDM (lubricated) Seat Teflon® PTFE Seat O-ring EPDM Characterized Disc TEFZEL® Body Pressure Rating [psi] 360 Media Temperature Range (Water) Differential Pressure Range 8 to 50 psid or 1 to 50 psid with flow reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity | | chilled or hot water, up to 60% glycol max |
| GPM Range Size [mm] 2" [50] End Fitting npt female ends Body forged brass, nickel plated Sensor Housing Ball Stainless steel Stem Stem Stainless steel Stem Packing EPDM (lubricated) Seat Teflon® PTFE Seat O-ring Characterized Disc Body Pressure Rating [psi] Media Temperature Range (Water) Differential Pressure Range Resoutent Meet Specified Measurement Accuracy Ambient Humidity Flow Measurement Tolerance Flow Control Tolerance Flow Measurement Repeatability Sensor Technology Temperature Resors Resolution of Temperature Sensor Remote Temperature Sensor Length Degree of Protection IEC/EN DEGREE Stainless, nickel plated forget brass, nickel plated forged brass, nickel plat | | |
| Size [mm] 2" [50] End Fitting npt female ends Body forged brass, nickel plated Sensor Housing forged brass, nickel plated Sall stainless steel Stem stainless steel Stem Packing EPDM (lubricated) Seat Teflon® PTFE Seat O-ring EPDM Characterized Disc TEFZEL® Body Pressure Rating [psi] 360 Media Temperature Range (Water) Differential Pressure Range 8 to 50 psid or 1 to 50 psid with flow reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity <95% RH non-condensing Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement Tolerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | Flow Characteristic | equal percentage or linear |
| End Fitting | GPM Range | 30-100 |
| End Fitting Body Forged brass, nickel plated Forged brass, | Size [mm] | 2" [50] |
| Body forged brass, nickel plated Sensor Housing forged brass, nickel plated Ball stainless steel Stem stainless steel Stem Packing EPDM (lubricated) Seat Teflon® PTFE Seat O-ring EPDM Characterized Disc TEFZEL® Body Pressure Rating [psi] 360 Media Temperature Range (Water) Differential Pressure Range 8 to 50 psid or 1 to 50 psid with flow reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity <95% RH non-condensing Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement Tolerance actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | npt female ends |
| Sensor Housing forged brass, nickel plated Ball stainless steel Stem stainless steel Stem Packing EPDM (lubricated) Seat Teflon® PTFE Seat O-ring EPDM Characterized Disc TEFZEL® Body Pressure Rating [psi] 360 Media Temperature Range (Water) Differential Pressure Range 8 to 50 psid or 1 to 50 psid with flow reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity <95% RH non-condensing Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement Tolerance actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Leakage 0% Degree of Protection IEC/EN IP54 NEMA 1, UL Enclosure Type 1 | | |
| Stem Stainless steel Stem Stainless steel Stem Packing EPDM (lubricated) Seat Teflon® PTFE Seat O-ring EPDM Characterized Disc TEFZEL® Body Pressure Rating [psi] 360 Media Temperature Range (Water) Differential Pressure Range 8 to 50 psid or 1 to 50 psid with flow reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified 5X nominal pipe size (NPS) Measurement Accuracy Ambient Humidity <95% RH non-condensing Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement 70lerance | - | - |
| Stem Packing | <u> </u> | - |
| Seat O-ring EPDM Characterized Disc TEFZEL® Body Pressure Rating [psi] 360 Media Temperature Range (Water) Differential Pressure Range 8 to 50 psid or 1 to 50 psid with flow reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity <95% RH non-condensing Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement College According to PT1000 DIN EN60751 Class ET0 (See Chart) Tolerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Standard: 2 ft. 7.5 in. [0.8m], 9.8 ft. [3m] Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | Stem | stainless steel |
| Seat O-ring EPDM Characterized Disc TEFZEL® Body Pressure Rating [psi] 360 Media Temperature Range (Water) Differential Pressure Range 8 to 50 psid or 1 to 50 psid with flow reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity <95% RH non-condensing Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement College According to PT1000 DIN EN60751 Class ET0 (See Chart) Tolerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Standard: 2 ft. 7.5 in. [0.8m], 9.8 ft. [3m] Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | Stem Packing | EPDM (lubricated) |
| Characterized Disc Body Pressure Rating [psi] Media Temperature Range (Water) Differential Pressure Range Close-Off Pressure Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity Flow Measurement Tolerance Flow Control Tolerance Flow Measurement Repeatability Sensor Technology Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement Tolerance Resolution of Temperature Sensor Rated Impulse Voltage Weight Remote Temperature Sensor Length Leakage Degree of Protection IEC/EN Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | , |
| Characterized Disc Body Pressure Rating [psi] Media Temperature Range (Water) Differential Pressure Range Close-Off Pressure Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity Flow Measurement Tolerance Flow Control Tolerance Flow Measurement Repeatability Sensor Technology Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement Tolerance Resolution of Temperature Sensor Rated Impulse Voltage Weight Remote Temperature Sensor Length Leakage Degree of Protection IEC/EN Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | Seat O-ring | EPDM |
| Media Temperature Range (Water) Differential Pressure Range Sto 50 psid or 1 to 50 psid with flow reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity Flow Measurement Tolerance Flow Control Tolerance Flow Measurement Repeatability Sensor Technology Ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement Tolerance Resolution of Temperature Sensor Rated Impulse Voltage Weight 13.2 Ib [6 kg] Remote Temperature Sensor Length Leakage Degree of Protection IEC/EN Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | TEFZEL® |
| Media Temperature Range (Water) Differential Pressure Range Sto 50 psid or 1 to 50 psid with flow reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity Flow Measurement Tolerance Flow Control Tolerance Flow Measurement Repeatability Sensor Technology Ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement Tolerance Resolution of Temperature Sensor Rated Impulse Voltage Weight 13.2 Ib [6 kg] Remote Temperature Sensor Length Leakage Degree of Protection IEC/EN Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | *************************************** | |
| Water) Differential Pressure Range Sto 50 psid or 1 to 50 psid with flow reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity Flow Measurement Tolerance Flow Control Tolerance Flow Measurement Repeatability Flow M | , , , | 39°F to 250°F [4°C to 120°C] |
| reductions (see chart) Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity <95% RH non-condensing Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement According to PT1000 DIN EN60751 ClassE Tolerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | |
| Close-Off Pressure 200 psi Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity <95% RH non-condensing Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement According to PT1000 DIN EN60751 ClassET0lerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Leakage 0% Degree of Protection IEC/EN Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | Differential Pressure Range | 8 to 50 psid or 1 to 50 psid with flow |
| Inlet Length to Meet Specified Measurement Accuracy Ambient Humidity Flow Measurement Tolerance Flow Control Tolerance Flow Measurement Repeatability Sensor Technology Temperature Sensors Flow Description of Temperature Sensor Resolution of Temperature Sensor Rated Impulse Voltage Remote Temperature Sensor Remote Temperature Sensor Degree of Protection IEC/EN Degree of Protection NEMA/ UL System Remote Temperature Tolerance System Remote Temperature Sensor SX nominal pipe size (NPS) 5X nominal pipe size (NPS) 6 5X nominal pipe size (NPS) 5X nominal pipe size (NPS) 6 54 54 6 6 6 6 6 6 6 6 6 6 6 6 6 | | |
| Measurement Accuracy Ambient Humidity <95% RH non-condensing Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement According to PT1000 DIN EN60751 ClassET0lerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | • |
| Ambient Humidity < 95% RH non-condensing Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement According to PT1000 DIN EN60751 ClassET0lerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | 5X nominal pipe size (NPS) |
| Flow Measurement Tolerance ±2%* Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement According to PT1000 DIN EN60751 ClassET0lerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | OFO/ Dillara sandansias |
| Flow Control Tolerance ±5% Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement According to PT1000 DIN EN60751 ClassE Tolerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | |
| Flow Measurement Repeatability +/- 0.5% Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement According to PT1000 DIN EN60751 ClassET0lerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Standard: 2 ft. 7.5 in. [0.8m], 9.8 ft. [3m] Length Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | == /* |
| Sensor Technology ultrasonic with glycol and temperature compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement Tolerance Resolution of Temperature Sensor Rated Impulse Voltage decline with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Leakage Degree of Protection IEC/EN Degree of Protection NEMA/ UL With and temperature O.18°F (0.1°C) actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV 13.2 lb [6 kg] Standard: 2 ft. 7.5 in. [0.8m], 9.8 ft. [3m] IP54 NEMA 1, UL Enclosure Type 1 | | = * * * |
| compensation Temperature Sensors PT1000 insertion sensors w/NPT body Temperature Measurement According to PT1000 DIN EN60751 ClassE Tolerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | |
| Temperature Measurement Tolerance Resolution of Temperature Sensor Rated Impulse Voltage Weight Tolerance Remote Temperature Sensor Length Leakage Degree of Protection NEMA/ UL According to PT1000 DIN EN60751 ClassE According to PT1000 DIN EN60 | Sensor Technology | |
| Tolerance Resolution of Temperature Sensor 0.18°F (0.1°C) Rated Impulse Voltage | Temperature Sensors | PT1000 insertion sensors w/NPT body |
| Rated Impulse Voltage actuator/sensor: 0.8 kV (in accordance with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Standard: 2 ft. 7.5 in. [0.8m], 9.8 ft. [3m] Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | • | According to PT1000 DIN EN60751 ClassB |
| with EN60730-1) kV Weight 13.2 lb [6 kg] Remote Temperature Sensor Length Standard: 2 ft. 7.5 in. [0.8m], 9.8 ft. [3m] Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | Resolution of Temperature Sensor | 0.18°F (0.1°C) |
| Remote Temperature Sensor Length Leakage Degree of Protection NEMA/ UL Standard: 2 ft. 7.5 in. [0.8m], 9.8 ft. [3m] 0% IP54 NEMA 1, UL Enclosure Type 1 | Rated Impulse Voltage | |
| Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | Weight | |
| Leakage 0% Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | Standard: 2 ft. 7.5 in. [0.8m], 9.8 ft. [3m] |
| Degree of Protection IEC/EN IP54 Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | 0% |
| Degree of Protection NEMA/ UL NEMA 1, UL Enclosure Type 1 | | 1 |
| | | NEMA 1, UL Enclosure Type 1 |
| | Glycol Measurement Accuracy | |

^{*}All flow tolerances are at 68°F (20°C) & water.

Application

Water-side control of heating and cooling systems for AHUs and water coils. Equal Percentage/ Linear: heating and cooling applications.

Operation

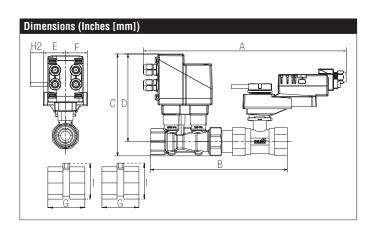
The Energy Valve is an energy metering pressure independent control valve that measures, documents and optimizes water coil performance.

Product Features

The Energy Valve measures energy using its built-in electronic flow sensor and supply and return temperature sensors. Controls power with its Power Control logic providing linear heat transfer regardless of temperature and pressure variations. Manages Low Delta T Syndrome with its built in Delta T Manager. Measures glycol with advanced algorithms in its built in flow sensor. An IoT device utilizing cloud-based technology to optimize performance.

Suitable Actuators

| | Non-Spring | Electronic Fail-Safe | | | |
|-------------|------------|----------------------|--|--|--|
| EV200S-1000 | ARB(X) | AKRB(X) | | | |



| Α | В | C | D | E | F | G | H2 | |
|--------|--------|-------|-------|------|--------|--------|-------|-------|
| 17.12" | 11.18" | 8.26" | 6.96" | 1.73 | " [44] | 3.15" | 0.75" | 4.13" |
| [435] | [284] | [210] | [177] | | | [80.1] | [20] | [105] |

Modulating, Non-Spring Return, 24 V, Shared Logic Technology $\! \otimes \!$











| | inta-tuoji. |
|-------------------------------|--|
| Technical Data | |
| Power Supply | 24 VAC ± 20%, 50/60 Hz, 24 VDC ± 10% |
| Power Consumption Running | 5 W (0.5" to 2") 7 W (2.5" to 6") |
| Transformer Sizing | 8VA (0.5" to 2"), 11VA (2.5" to 6") (class 2 |
| | power source) |
| Electrical Connection | 18 GA plenum rated cable and RJ45 socket (ethernet) |
| Overload Protection | electronic thoughout 0° to 90° rotation |
| Operating Range Y | 2 to 10 VDC (default) VDC variable |
| Input Impedance | 100 kΩ (0.1 mA), 500 Ω |
| Feedback Output U | 2 to 10 VDC (default) VDC variable |
| Angle of Rotation | 90° |
| Direction of Rotation (Motor) | reversible with web view |
| Position Indication | integrated into handle |
| Manual Override | external push button |
| Running Time (Motor) | 90 sec |
| Ambient Humidity | <95% RH non-condensing |
| Ambient Temperature Range | -22°F to 122°F [-30°C to 50°C] |
| Storage Temperature Range | -40°F to 176°F [-40°C to 80°C] |
| Housing | NEMA 1, IP54, UL Enclosure Type 1 |
| Agency Listings† | cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC |
| Noise Level (Motor) | max. 45 dB (A) |
| Servicing | maintenance free |
| Quality Standard | ISO 9001 |
| Communication | BACnet IP, BACnet MS/TP, listed by BTL, Modbus RTU, Modbus IP, web server, Belimo MP-Bus |

The Energy Valve is based on Belimo patent and patent pending technology, US-Patent 6,039,304: Ball valve with modified characteristics, US-Patent Pending: 2011/0153089: HVAC actuator comprising a network interface, data store and a processor, US-Patent Pending: 2009/009115: Control of sensor less and brushless DC-Motor.

and brushless DC-Motor.
The Energy Valve incorporates additional technology - Powered by Optimum Energy TM.





Modulating, Non-Spring Return, 24 V, Shared Logic Technology®

Wiring Diagrams



X INSTALLATION NOTES



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.

