



5-year warranty



Technical data

| | | |
|---------------------------|--------------------------------|---|
| Functional data | Valve Size | 1" [25] |
| | Fluid | chilled or hot water, up to 60% glycol |
| | Fluid Temp Range (water) | 0...250°F [-18...120°C] |
| | Body Pressure Rating | 600 psi |
| | Close-off pressure Δ ps | 200 psi |
| | Flow characteristic | equal percentage |
| | Servicing | maintenance-free |
| | Flow Pattern | 2-way |
| | Leakage rate | 0% for A – AB |
| | Controllable flow range | 75° |
| | Cv | 30 |
| | Body pressure rating note | 600 psi |
| | No Characterized Disc | TRUE |
| | Cv Flow Rating | A-port: as stated in chart B-port: 70% of A – AB Cv |
| | Materials | Valve body |
| Stem seal | | EPDM (lubricated) |
| Seat | | PTFE |
| Pipe connection | | NPT female ends |
| O-ring | | EPDM (lubricated) |
| Ball | | stainless steel |
| Suitable actuators | Non-Spring | LRB(X) NR |

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

Product features

- Application** This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

Flow/Mounting details

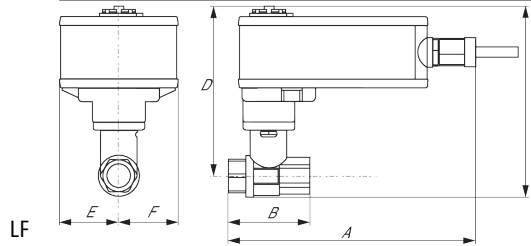


Dimensions

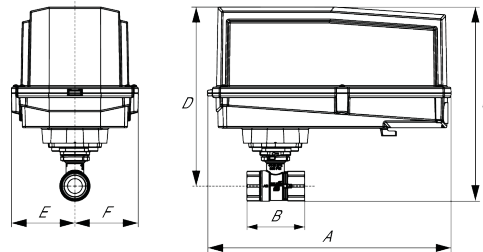
Dimensional drawings



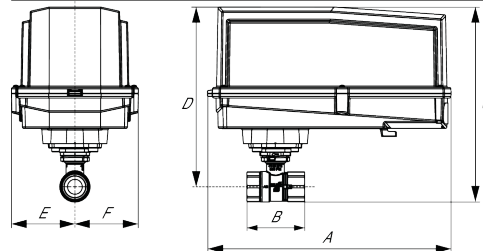
| A | B | C | D | E | F | H1 | H2 |
|------------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| 9.4" [239] | 3.1" [78] | 7.2" [184] | 6.3" [161] | 1.3" [33] | 1.3" [33] | 1.2" [30] | 0.9" [23] |



| A | B | C | D | E | F |
|------------|-----------|------------|------------|-----------|-----------|
| 8.1" [206] | 3.1" [78] | 6.5" [165] | 5.6" [142] | 1.8" [46] | 1.8" [46] |



| A | B | C | D | E | F |
|-------------|-----------|------------|------------|-----------|-----------|
| 11.4" [289] | 3.1" [78] | 7.8" [199] | 7.1" [181] | 3.1" [80] | 3.1" [80] |



| A | B | C | D | E | F |
|-------------|-----------|------------|------------|-----------|-----------|
| 11.4" [289] | 3.1" [78] | 7.8" [199] | 7.1" [181] | 3.1" [80] | 3.1" [80] |



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Technical data

| | | |
|------------------------|------------------------------------|--|
| Electrical data | Nominal voltage | AC/DC 24 V |
| | Nominal voltage frequency | 50/60 Hz |
| | Power consumption in operation | 1.5 W |
| | Power consumption in rest position | 0.2 W |
| | Transformer sizing | 2.5 VA (class 2 power source) |
| | Electrical Connection | Screw terminal (for 26 to 14 GA wire) |
| | Overload Protection | electronic throughout 0...90° rotation |
| | Electrical Protection | actuators are double insulated |
| Functional data | Input Impedance | 600 Ω |
| | Direction of motion motor | selectable with switch 0/1 |
| | Manual override | external push button |
| | Angle of rotation | 90° |
| | Angle of rotation note | adjustable with mechanical stop |
| | Running Time (Motor) | default 90 s, variable 150, 90, 45, 35 s |
| | Running time motor variable | 150, 90, 45, 35 s |
| | Noise level, motor | 35 dB(A) |
| Position indication | Mechanically, pluggable | |
| 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 |
| | Quality Standard | ISO 9001 |
| | Ambient temperature | -22...122°F [-30...50°C] |
| | Storage temperature | -40...176°F [-40...80°C] |
| | Ambient humidity | max. 95% r.H., non-condensing |
| | Servicing | maintenance-free |
| Weight | Weight | 0.62 lb [0.28 kg] |

Safety notes



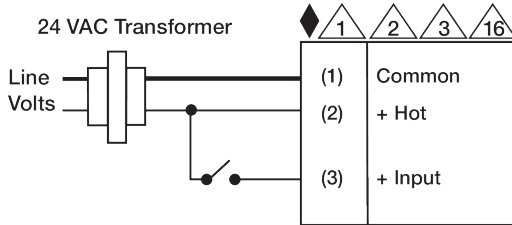
- †Rated Impulse Voltage 800V, Type of Action 1, Control Pollution Degree 2.

Electrical installation

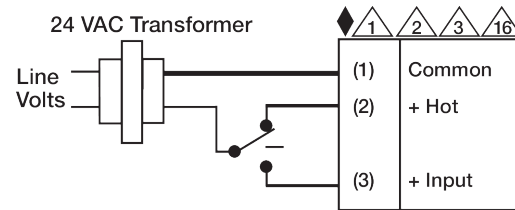
INSTALLATION NOTES

- 1 Provide overload protection and disconnect as required.
- 2 Actuators may be connected in parallel. Power consumption and input impedance must be observed.
- 3 Actuators may also be powered by 24 VDC.

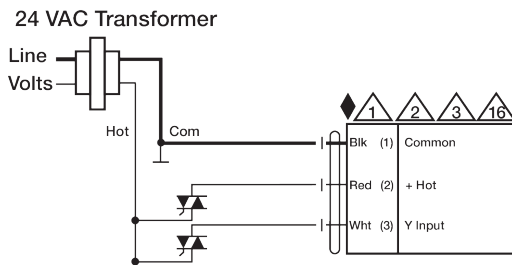
- Actuator's Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.
- Actuators are provided with a numbered screw terminal strip instead of a cable.
- Meets cULus requirements without the need of an electrical 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.



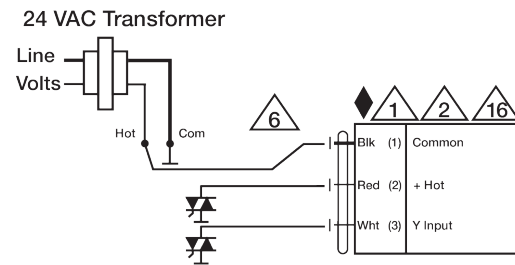
On/Off



Floating Point



Floating Point - Triac Source



Floating Point - Triac Sink