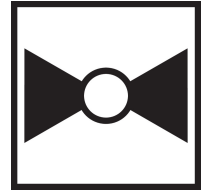




2-year warranty



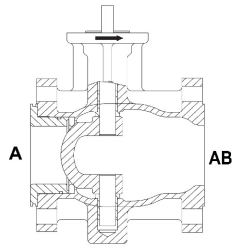
Technical data

| | | |
|---------------------------|---------------------------------------|---|
| Functional data | Valve Size | 8" [200] |
| | Fluid | chilled or hot water, up to 60% glycol, steam |
| | Fluid Temp Range (water) | -22...380°F [-30...193°C] |
| | Fluid Temp Range (steam) | -22...365°F [-30...185°C] |
| | Body Pressure Rating | ANSI Class 150 |
| | Close-off pressure Δps | 250 psi |
| | Flow characteristic | equal percentage |
| | Servicing | repack/rebuild kits available |
| | Rangeability Sv | 300:1 |
| | Maximum differential pressure (water) | 150 psi |
| | Max Differential Pressure (Steam) | 100 psi |
| | Close-Off Pressure (Steam) | 150 psi |
| | Flow Pattern | 2-way |
| | Leakage rate | ANSI Class IV |
| | Controllable flow range | 75° |
| | Cv | 865 |
| | Maximum Inlet Pressure (Steam) | 150 psi |
| Materials | Valve body | WCC grade carbon steel |
| | Body finish | matt black body finish |
| | Stem | stainless steel |
| | Stem seal | PTFE V-ring |
| | Seat | PTFE |
| | Pipe connection | 125/150 lb flanged, ASME/ANSI b16.1/b16.5 |
| | Ball | stainless steel |
| Suitable actuators | Non-Spring | PRB(X) |
| | Electronic fail-safe | PKRB(X) |

Product features

- Product features** Fast quarter turn open or closed operation, stainless-steel ball and stem, positive isolation, two-piece body construction
- 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





5-year warranty



Technical data

| | | |
|------------------------|-------------------------------------|---|
| Electrical data | Nominal voltage | AC 24...240 V / DC 24...125 V |
| | Nominal voltage frequency | 50/60 Hz |
| | Power consumption in operation | 20 W |
| | Power consumption in rest position | 6 W |
| | Transformer sizing | 20 VA @ AC/DC 24 V (class 2 power source), 23 VA @ AC/DC 120 V, 52 VA @ AC 230 V |
| | Auxiliary switch | 2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, 1 x 10° / 1 x 0...90° (default setting 85°) |
| | Switching capacity auxiliary switch | 3 A resistive (0.5 A inductive) @ AC 250 V |
| | Electrical Connection | Terminal blocks, (PE) Ground-Screw |
| | Overload Protection | electronic throughout 0...90° rotation |
| Functional data | Direction of motion motor | reversible with app |
| | Manual override | 7 mm hex crank, supplied |
| | Angle of rotation | 90° |
| | Running Time (Motor) | 35 s |
| | Noise level, motor | 68 dB(A) |
| | Position indication | integral pointer |
| Safety data | Degree of protection IEC/EN | IP66/67 |
| | Degree of protection NEMA/UL | NEMA 4X |
| | Enclosure | UL Enclosure Type 4X |
| | 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 | -22...122°F [-30...50°C] |
| | Ambient humidity | Max. 100% RH |
| | Servicing | maintenance-free |
| Weight | Weight | 13 lb [5.9 kg] |
| Materials | Housing material | die cast aluminium polycarbonate cover |

Product features

Application PR Series valve actuators are designed with an integrated linkage and visual position indicators. For outdoor applications, the installed valve must be mounted with the actuator at or above horizontal. For indoor applications the actuator can be in any location including directly under the valve.

Operation The PR series actuator provides 90° of rotation and a visual indicator shows the position of the valve. The PR Series actuator uses a low power consumption brushless DC motor and is electronically protected against overload. A universal power supply is furnished to connect supply voltage in the range of AC 24...240 V and DC 24...125 V. Included is a smart heater with thermostat to eliminate condensation. Two auxiliary switches are provided; one set at 10° open and the other is field adjustable. Running time is field adjustable from 30...120 seconds by using the Near Field Communication (NFC) app and a smart phone.

†Use 60°C/75°C copper wire size range 12...28 AWG, stranded or solid. Use flexible metal conduit. Push the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 4000 V. Type of action 1. Control pollution degree 3.

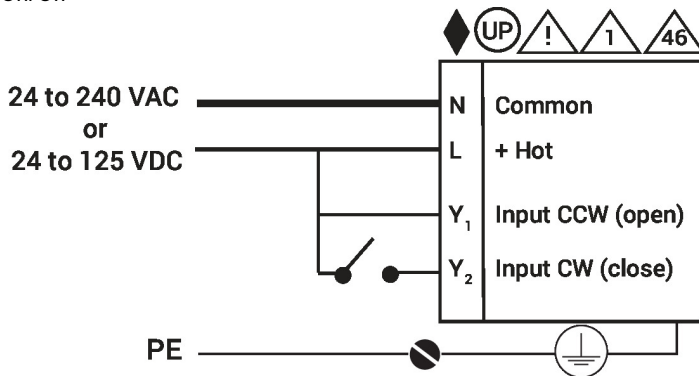
Accessories

| Mechanical accessories | Description | Type |
|------------------------|----------------------------|-----------|
| | Hand crank for PR, PKR, PM | ZG-HND PR |

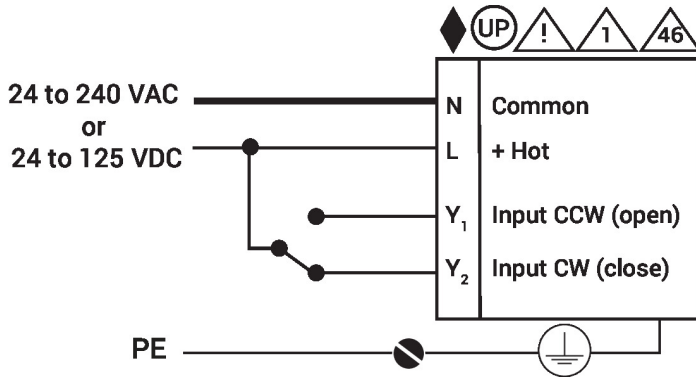
Electrical installation

- ◆ Meets cULus requirements without the need of an electrical ground connection.
- Ⓢ UP Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.
- ⚡ Disconnect power.
- ⚠ Provide overload protection and disconnect as required.
- ⚠ Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.
- ⚠ Actuators may be controlled in parallel. Current draw and input impedance must be observed.
- ⚠ **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.

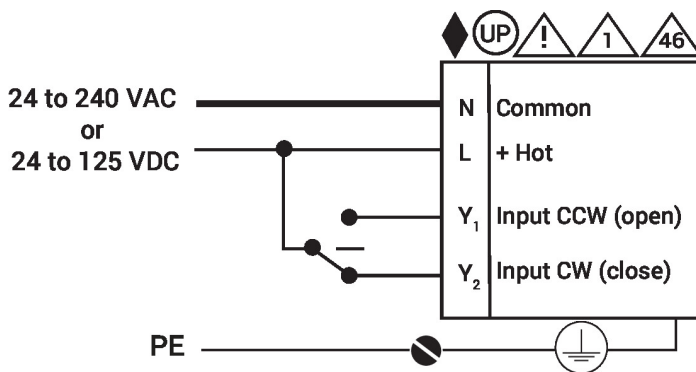
Wiring diagrams
On/Off



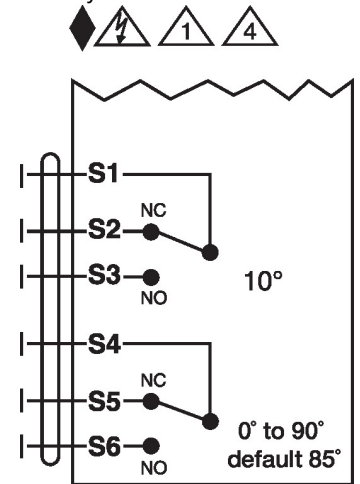
On/Off



Floating Point



Auxiliary Switches



Dimensions

Dimensional drawings

