

Technical data sheet

F6150VIC







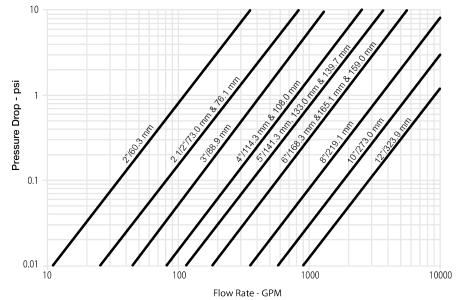
Technical data

| Functional data | Valve Size | 6" [150] |
|--------------------|---------------------------|--|
| | Fluid | chilled or hot water, up to 60% glycol |
| | Fluid Temp Range (water) | -22250°F [-30120°C] |
| | Body Pressure Rating | ANSI Class Grooved AWWA, 300 psi |
| | Close-off pressure ∆ps | 200 psi |
| | Servicing | maintenance-free |
| | Rangeability Sv | 100:1 |
| | Flow Pattern | 2-way |
| | Leakage rate | 0% |
| | Controllable flow range | 90° rotation |
| | Cv | 1800 |
| | ANSI Class | Grooved AWWA |
| | Body pressure rating note | 300 psi |
| | Maximum Velocity | 20 FPS |
| Materials | Valve body | Ductile cast iron ASTM A536 |
| | Body finish | black alkyd enamel |
| | Stem seal | fiberglass with TFE lining |
| | Seat | EPDM |
| | End fitting | grooved ANSI/AWWA (c606) |
| | Disc | electroless nickel coated ductile iron |
| Suitable actuators | Non-Spring | DRB(X) |
| | | PRB(X) |
| | Electronic fail-safe | PKRB(X) |



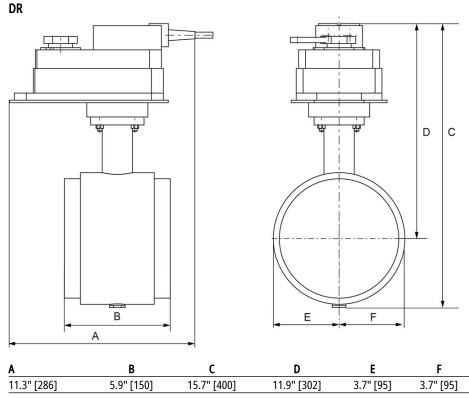
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Flow/Mounting details



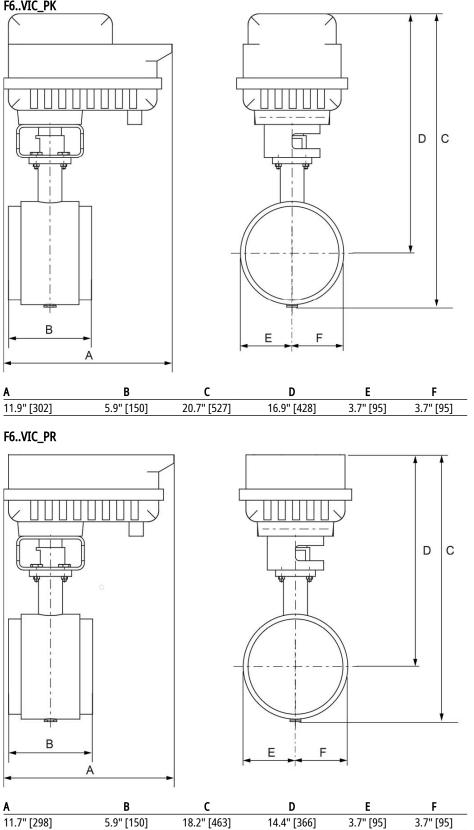
Dimensions

Dimensional drawings





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Modulating, Electronic Fail-Safe, 24...240 V, NEMA 4X with BACnet

Technical data sheet

PKRXUP-MFT-T





Technical data

| Electrical data | Nominal voltage | AC 24240 V / DC 24125 V |
|-----------------|-------------------------------------|--|
| | Nominal voltage frequency | 50/60 Hz |
| | Power consumption in operation | 52 W |
| | Power consumption in rest position | 9 W |
| | Transformer sizing | 55 VA @ AC/DC 24 V (class 2 power source), 43 VA @ AC/DC 120 V, 68 VA @ AC 230 V |
| | Auxiliary switch | 2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 090° |
| | Switching capacity auxiliary switch | 3 A resistive (0.5 A inductive) @ AC 250 V |
| | Electrical Connection | Terminal blocks, (PE) Ground-Screw |
| | Overload Protection | electronic thoughout 090° rotation |
| Functional data | Communicative control | BACnet MS/TP Modbus RTU MP-Bus |
| | Operating range Y | 210 V |
| | Operating range Y note | 420 mA |
| | Input Impedance | 100 kΩ for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for On/Off |
| | Operating range Y variable | Start point 0.530 V End point 2.532 V |
| | Options positioning signal | variable (VDC, on/off, floating point) |
| | Position feedback U | 210 V |
| | Position Feedback | 210 V, Max. 0.5 mA, VDC variable |
| | Position feedback U note | Max. 0.5 mA |
| | Position feedback U variable | VDC variable |
| | Setting Fail-Safe Position | adjustable with Belimo Assistant App 0100% (default 0%) |
| | Bridging time | programmable 010 s (2 s default) delay before fail- safe activates |
| | Pre-charging time | 520 s |
| | Direction of motion motor | reversible with app |
| | Direction of motion fail-safe | reversible with app |
| | Manual override | 7 mm hex crank, supplied |
| | Angle of rotation | 90° |
| | Running Time (Motor) | default 35 s, variable 30120 s |
| | Running time motor variable | 30120 s |
| | Running time fail-safe | <30 s |
| | Noise level, motor | 68 dB(A) |
| | Noise level, fail-safe | 62 dB(A) |
| | Position indication | top mounted domed indicator |
| | Passive sensor inputs | 2x (Pt1000, Ni1000, NTC10k2) |
| | | |



| 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 | -22122°F [-3050°C] | |
| | Ambient humidity | max. 95% r.H., non-condensing | |
| | Servicing | maintenance-free | |
| Weight | Weight | 14 lb [6.4 kg] | |
| Materials | Housing material | Die cast aluminium and plastic casing | |
| | | | |
| fault/Configuration | manufacturing. If required, different para | ations of the PKRMFT actuator are assigned during ameters of the actuator can be ordered. These parameters are pre-set, the handheld ZTH US or using the Belimo App on a smart NFC) programming. | |
| 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 | PR Series actuator uses a low power cons against overload. A universal power supp 24240 V and DC 24125 V. Included is a auxiliary switches are provided; one set a adjustable from 30120 seconds by usin †Use 60°C/75°C copper wire size range 1 the listed conduit fitting device over the a connector. Jacket the actuators input wiri | tation and a visual indicator shows the position of the valve. The sumption brushless DC motor and is electronically protected bly is furnished to connect supply voltage in the range of AC a smart heater with thermostat to eliminate condensation. Two at 10° open and the other is field adjustable. Running time is field g the Near Field Communication (NFC) app and a smart phone. 228 AWG, stranded or solid. Use flexible metal conduit. Push actuator's cable to butt against the enclosure. Screw in conduit ing with listed flexible conduit. Properly terminate the conduit in | |
| Factory settings | Default parameters for DC 210 V applica manufacturing. If required, different para | oltage 4000 V. Type of action 1. Control pollution degree 3. ations of the PKRMFT actuator are assigned during ameters of the actuator can be ordered. These parameters are ore-set, the handheld ZTH US or using the Belimo App on a smart | |
| | Materials fault/Configuration Application Operation | Enclosure Agency Listing Quality Standard Ambient temperature Ambient humidity Servicing Weight Materials Housing material fault/Configuration Default parameters for DC 210 V applic manufacturing. If required, different par variable and can be modified by factory p phone with Near Field Communications (Application PR Series valve actuators are designed w outdoor applications, the installed valve indoor applications the actuator can be in Operation The PR series actuator provides 90° of ro PR Series actuator uses a low power cons against overload. A universal power supp 24240 V and DC 24125 V. Included is auxiliary switches are provided; one set a adjustable from 30120 seconds by usin tUse 60°C/75°C copper wire size range 1 the listed conduit fitting device over the a connector. Jacket the actuators input wir a suitable junction box. Rated impulse Vor Befault parameters for DC 210 V applic manufacturing. If required, different par | |

| | Gateways Service tools | Description | Туре |
|-------------------------|---------------------------|---|------------------------|
| | | Gateway MP to BACnet MS/TP | UK24BAC |
| | | Gateway MP to LonWorks | UK24LON |
| | | Gateway MP to Modbus RTU | UK24MOD Type |
| | | Description | |
| | | Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection | ZK4-GEN |
| | | Service Tool, with ZIP-USB function, for parametrisable and communicative Belimo actuators, VAV controller and HVAC performance devices | ZTH US |
| Electrical installation | | | |
| | | Meets cULus requirements without the need of an electrical ground connection. | |

UP Universal Power Supply (UP) models can be supplied with 24 V up to 240 V. Disconnect power. Provide overload protection and disconnect as required.



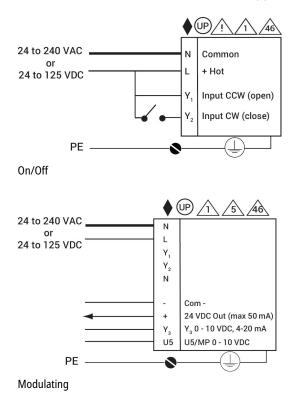
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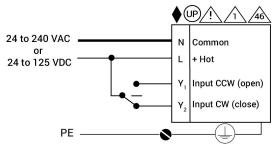
Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

Actuators may be controlled in parallel. Current draw and input impedance must be observed.

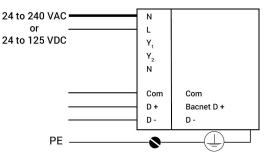
/ Warning! Live Electrical Components!

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.

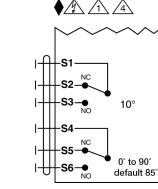




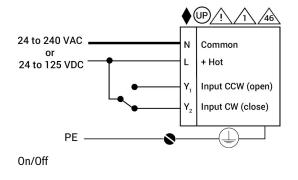
Floating Point

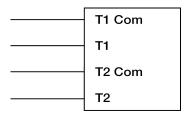


BACnet



Auxiliary Switches





Temperature Sensors