

Reinforced Teflon Seat, 316 Stainless Steel

Technical data sheet

F650-300SHP

5-year warranty



Type overview

| Туре | DN |
|-------------|----|
| F650-300SHP | 50 |
| | |

Technical data

| Functional data | Valve size [mm] | 2" [50] | |
|--------------------|--------------------------------|---|--|
| | Fluid | chilled or hot water, up to 60% glycol, steam | |
| | Fluid Temp Range (water) | -22400°F [-30204°C] | |
| | Body Pressure Rating | ANSI Class 300 | |
| | Close-off pressure ∆ps | 285 psi | |
| | Flow characteristic | modified equal percentage, unidirectional | |
| | Servicing | maintenance-free | |
| | Flow Pattern | 2-way | |
| | Leakage rate | 0% | |
| | Controllable flow range | quarter turn, mechanically limited | |
| | Cv | 102 | |
| | Maximum Inlet Pressure (Steam) | 50 psi | |
| | Maximum Velocity | 32 FPS | |
| | Lug threads | 5/8-11 UNC | |
| Materials | Valve body | Carbon steel full lug (ASME B16.34) | |
| | Stem | 17-4 PH stainless steel | |
| | Seat | RPTFE | |
| | Pipe connection | ASME/ANSI class 300 flange | |
| | Bearing | glass backed PTFE | |
| | Disc | 316 stainless steel | |
| | Gear operator materials | Gears - hardened steel | |
| Suitable actuators | Non-Spring | GMB(X) | |
| | | (2*GMB(X)) | |
| | | PRB(X) | |
| | Electrical fail-safe | (2*GKB(X)) | |
| | | PKRB(X) | |

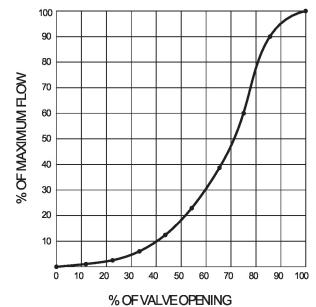
Safety notes



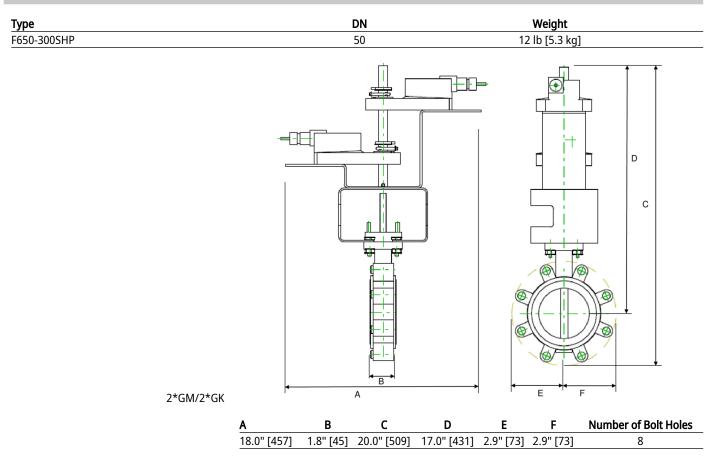
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov



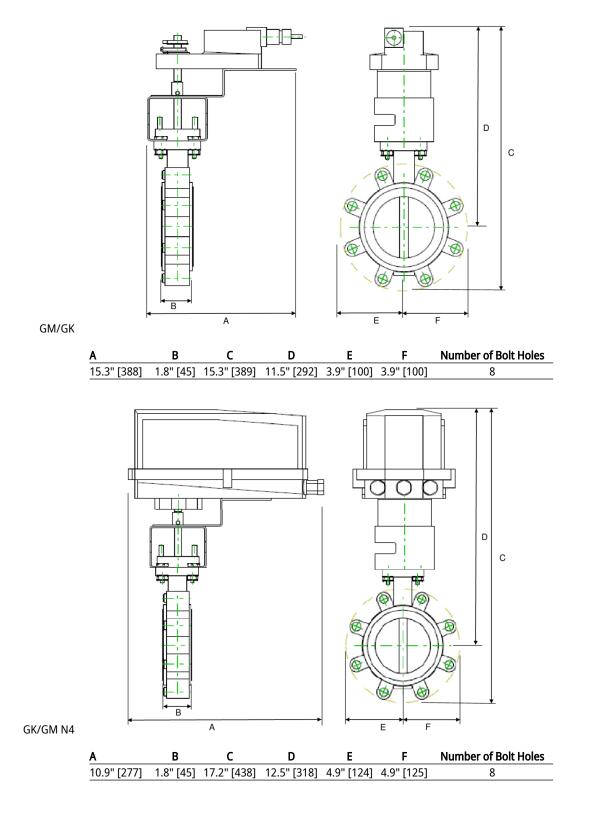
Flow/Mounting details



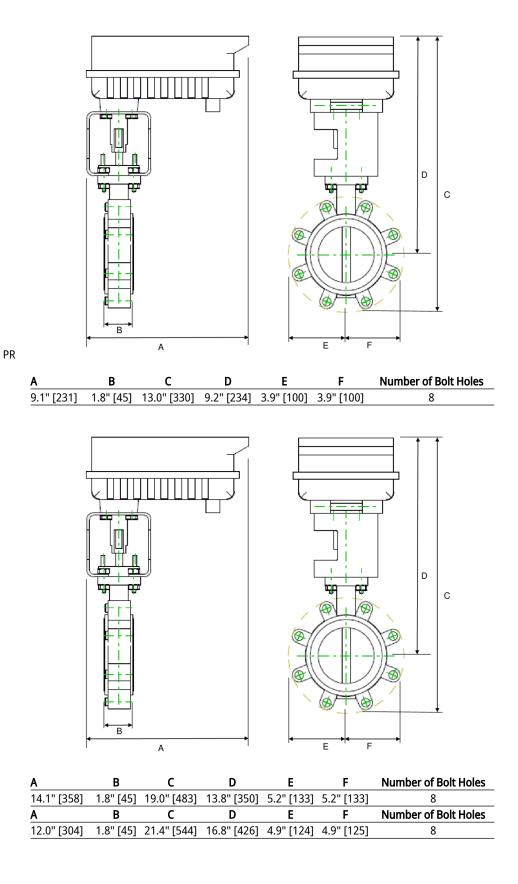
Dimensions













Technical data sheet

On/Off, Floating point, Non fail-safe, 24...240 V







| Electrical data | Nominal voltage | AC 24240 V / DC 24125 V | |
|-----------------|-------------------------------------|--|--|
| | Nominal voltage frequency | 50/60 Hz | |
| | Remark about nominal voltage range | AC 19.2264 V / DC 19.2137.5 V | |
| | Power consumption in operation | 20 W | |
| | Power consumption in rest position | 7 W | |
| | Transformer sizing | with 24 V 20 VA / with 240 V 52 VA | |
| | Auxiliary switch | 2x SPDT, 1 mA3 A (0.5 A inductive), DC 5 VAC 250 V (II, reinforced insulation), 1x 10° / 1x 090° (default setting 85°) | |
| | Switching capacity auxiliary switch | 1 mA3 A (0.5 A inductive), DC 5 VAC 250 V (II, reinforced insulation) | |
| | Electrical Connection | Terminal blocks, (PE) Ground-Screw | |
| | Overload Protection | electronic thoughout 090° 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 / 90° | |
| | Noise level, motor | 68 dB(A) | |
| | Position indication | integral pointer | |
| Safety data | Power source UL | Class 2 Supply | |
| | 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 humidity | Max. 100% RH | |
| | Ambient temperature | -22122°F [-3050°C] | |
| | Servicing | maintenance-free | |
| Weight | Weight | 6.8 lb [3.1 kg] | |
| Materials | Housing material | Die cast aluminium and plastic casing | |

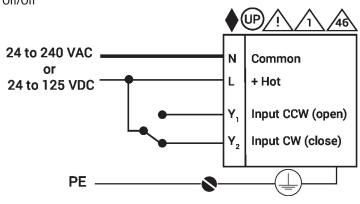


| Product features | | | |
|--|--|--|--|
| Application | PR Series valve actuators are designed with an integrated linkage and visual position indicators. For outdoor applications, the installed valve must be mounted with the actuator at or above horizontal. For indoor applications the actuator can be 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 24240 V and DC 24125 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 30120 seconds by using the Near Field Communication (NFC) app and a smart phone. | | |
| | [†] Use 60°C/75°C copper wire size range 1228 AWG, strande conduit. Push the listed conduit fitting device over the actua enclosure. Screw in conduit connector. Jacket the actuators i conduit. Properly terminate the conduit in a suitable junction V. Type of action 1. Control pollution degree 3. | tor's cable to butt against the input wiring with listed flexible | |
| Accessories | | | |
| Mechanical accessories | Description | Туре | |
| | Hand crank for PR, PKR, PM | ZG-HND PR | |
| Electrical installation | | | |
| UP Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC u 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 observe Warning! Live electrical components! During installation, testing, servicing and troubleshooting of this product, it may be necessa to work with live electrical components. Have a qualified licensed electrician or other individu 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 | | | |
| 24 to 240 VAC or 24 to 125 VDC | $\begin{array}{c c} & & & \\ \hline \mathbf{N} & & \\ \mathbf{N} & & \\ \mathbf{Common} \\ \mathbf{L} & + & \\ \mathbf{Hot} \\ \mathbf{Y}_1 & & \\ \mathbf{Input CCW (open)} \\ \mathbf{Y}_2 & & \\ \mathbf{Input CW (close)} \end{array}$ | | |
| PE | | | |

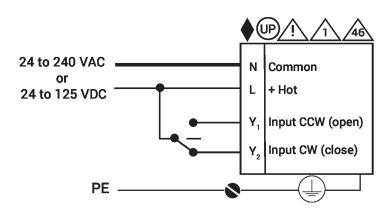


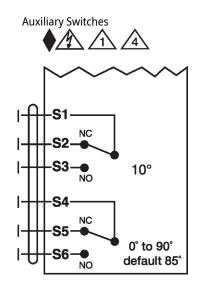
Electrical installation





Floating Point









Dimensions

