

**Reinforced Teflon Seat, 316 Stainless Steel** 

# **Technical data sheet**

# F665-300SHP

5-year warranty



# Type overview

Туре	DN
F665-300SHP	65

### **Technical data**

Functional data	Valve size [mm]	2.5" [65]	
	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 Δps	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	146	
	Maximum Inlet Pressure (Steam)	50 psi	
	Maximum Velocity	32 FPS	
	Lug threads	3/4-10 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*AFB(X)) (2*GKB(X)) PKRB(X)	

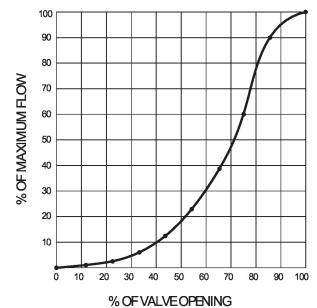
# Safety notes



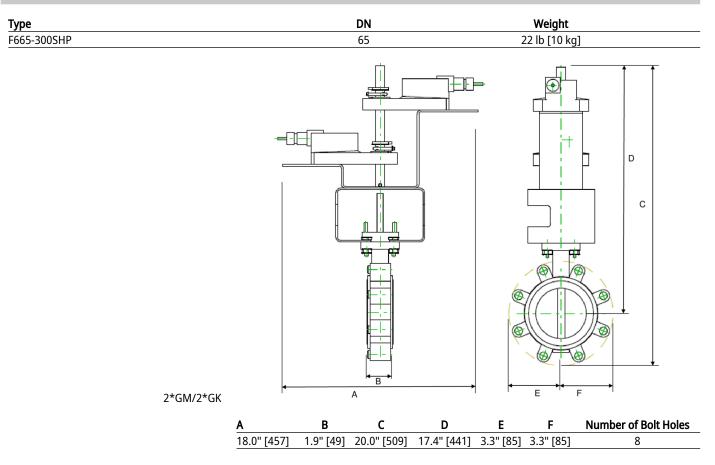
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov



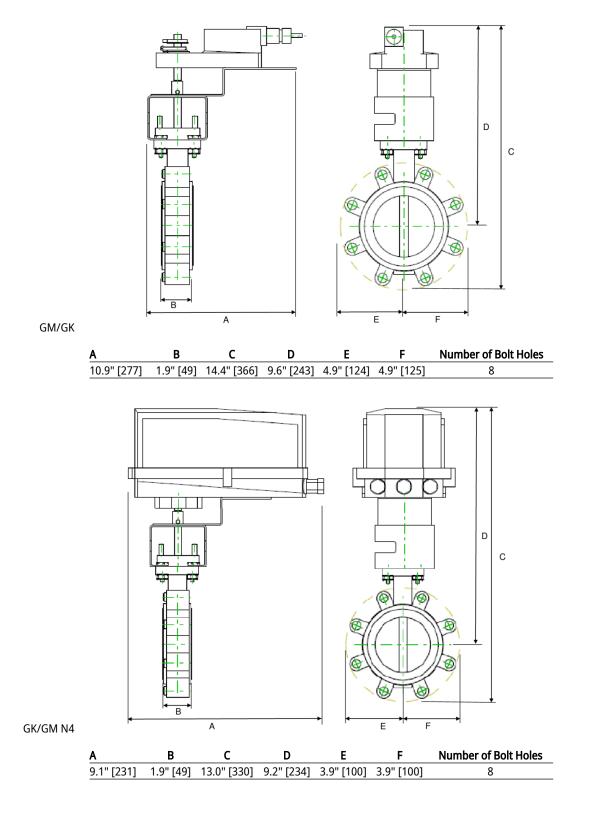
#### Flow/Mounting details



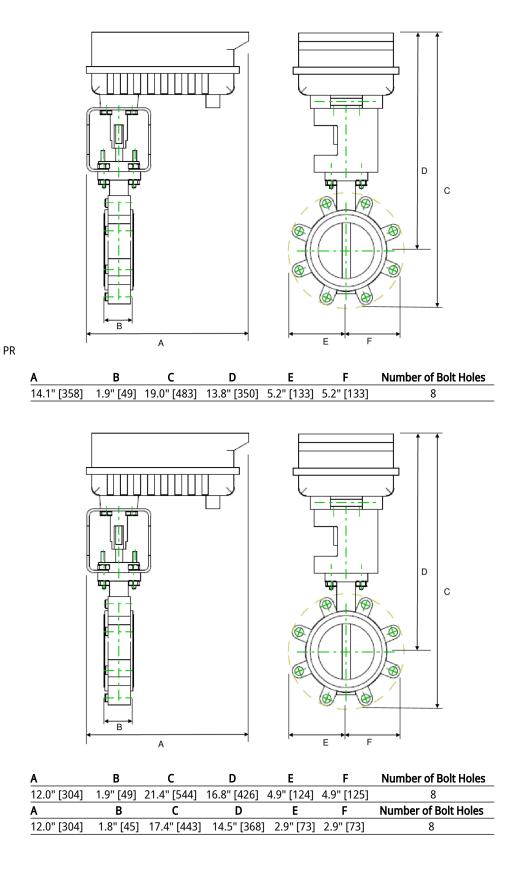
#### Dimensions













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	

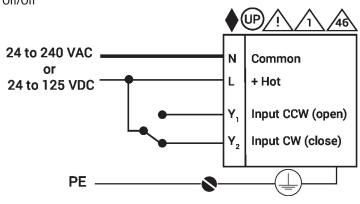


Product features			
Application	PR Series valve actuators are designed with an integrated lir For outdoor applications, the installed valve must be mount horizontal. For indoor applications the actuator can be in an the valve.	ed with the actuator at or above	
Operation	The PR series actuator provides 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.		
	<sup>†</sup> 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			
<ul> <li>UP Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.</li> <li>Disconnect power.</li> <li>Provide overload protection and disconnect as required.</li> <li>Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.</li> <li>Actuators may be controlled in parallel. Current draw and input impedance must be observed.</li> <li>Warning! Live electrical components!</li> <li>During installation, testing, servicing and troubleshooting of this product, it may be necessar 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.</li> </ul>			
<b>Wiring diagrams</b> 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			

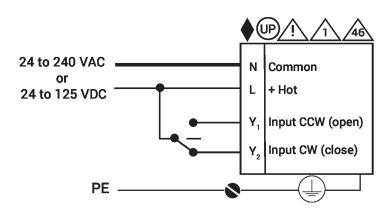


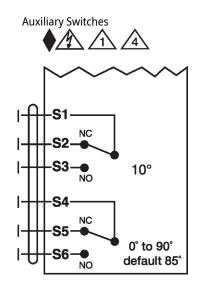
#### **Electrical installation**





**Floating Point** 









Dimensions

