

Butterfly Valve with ANSI Class 150 Lug types

- Disc 316 stainless steel
- Bubble tight shut-off
- Teflon seat
- Valve face-to-face dimensions comply with API 609 & MSS-SP-67
- For use with dead-end service
- Completely assembled and tested, ready for installation
- The SHP series are Flowseal® valves manufactured by the Crane Company.



Picture may differ from product



5-year warranty

Type overview

Type	DN
F6100-150SHP	100

Technical data

Functional data	Valve size [mm]	4" [100]
	Fluid	chilled or hot water, up to 60% glycol, steam
	Fluid Temp Range (water)	-22...400°F [-30...204°C]
	Body Pressure Rating	ANSI Class 150
	Close-off pressure Δps	285 psi
	Flow characteristic	modified equal percentage, unidirectional
	Leakage rate	0%
	Pipe connection	Flange for use with ASME/ANSI class 150
	Servicing	maintenance-free
	Flow Pattern	2-way
	Controllable flow range	quarter turn, mechanically limited
	Cv	451
	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
	Bearing	glass backed PTFE
	Disc	316 stainless steel
Suitable actuators	Non Fail-Safe	PRB(X) GMB(X)
	Spring	2*AFB(X)
	Electronic fail-safe	PKRB(X) GKRB(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

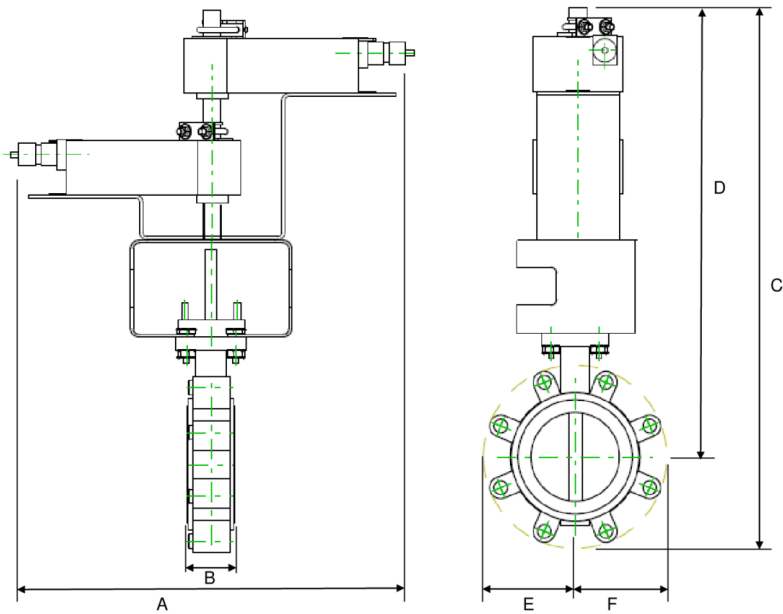
Product features

Flow/Mounting details

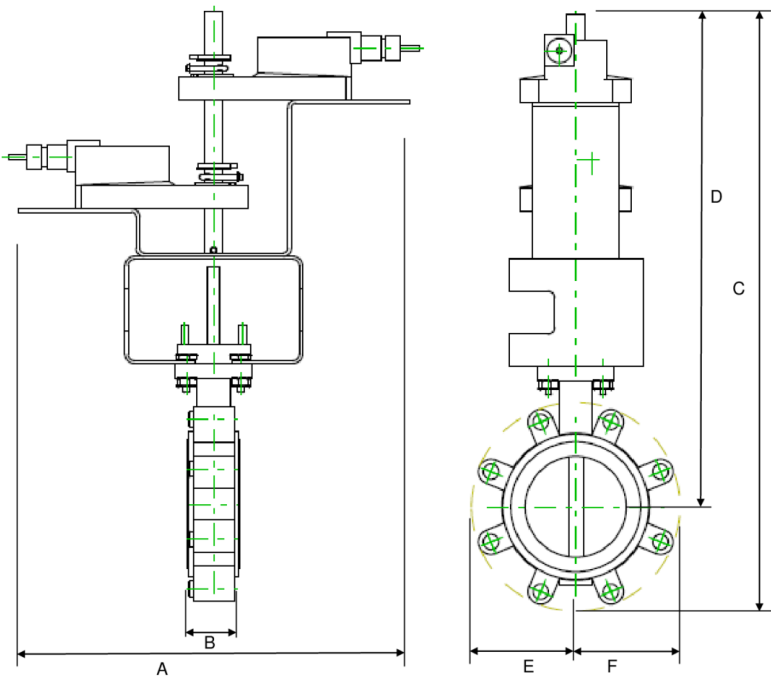


Dimensions

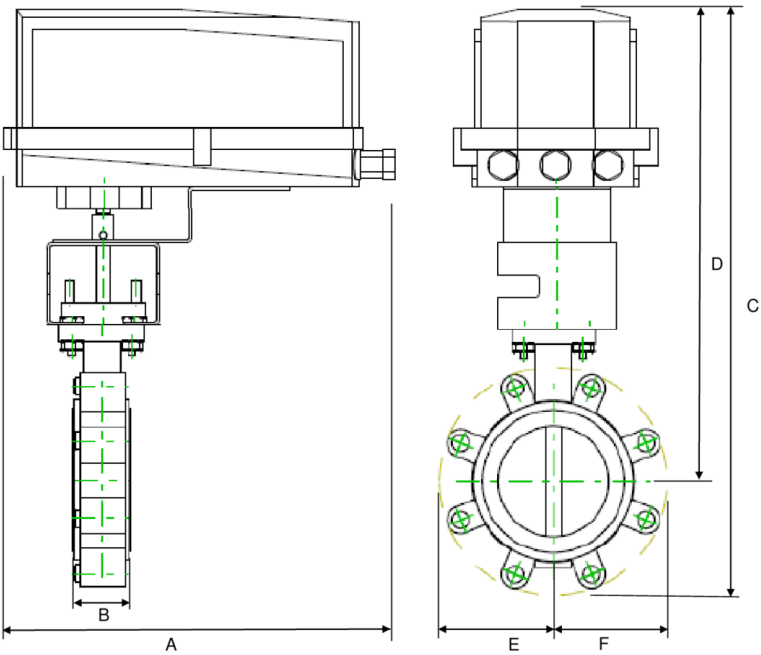
Type	DN	Weight
F6100-150SHP	100	10 lb [4.5 kg]



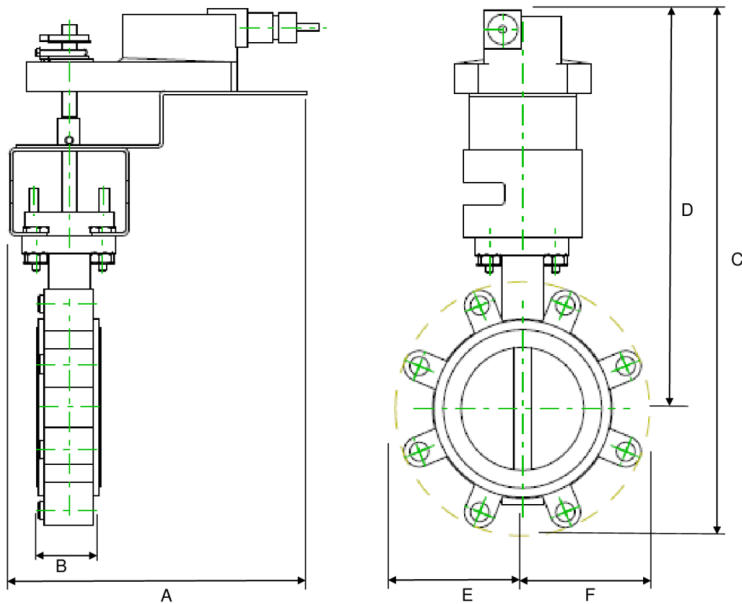
A	B	C	D	E	F	Number of Bolt Holes
18.0" [457]	2.1" [54]	24.0" [610]	20.5" [521]	4.3" [110]	4.3" [110]	8



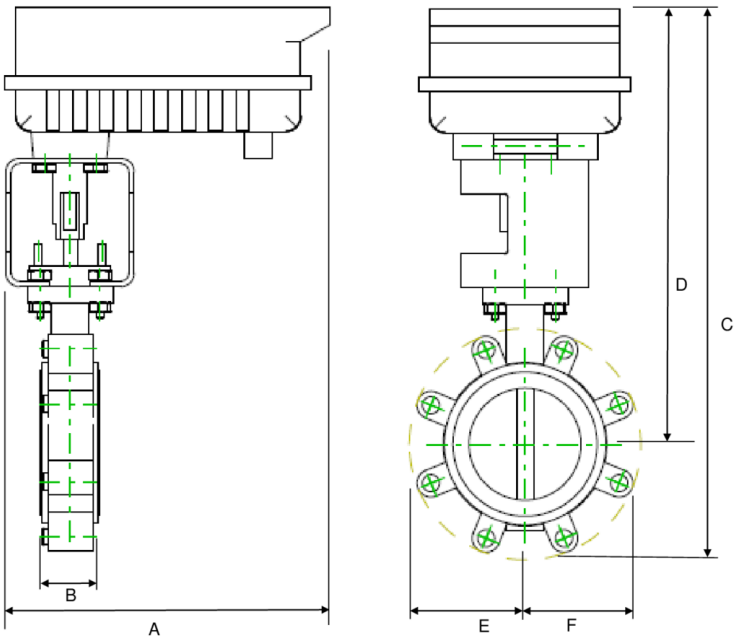
A	B	C	D	E	F	Number of Bolt Holes
18.9" [480]	2.2" [56]	24.3" [616]	20.1" [511]	4.3" [110]	4.3" [110]	8



A	B	C	D	E	F	Number of Bolt Holes
15.3" [388]	2.2" [56]	18.7" [476]	14.8" [377]	3.9" [100]	3.9" [100]	8

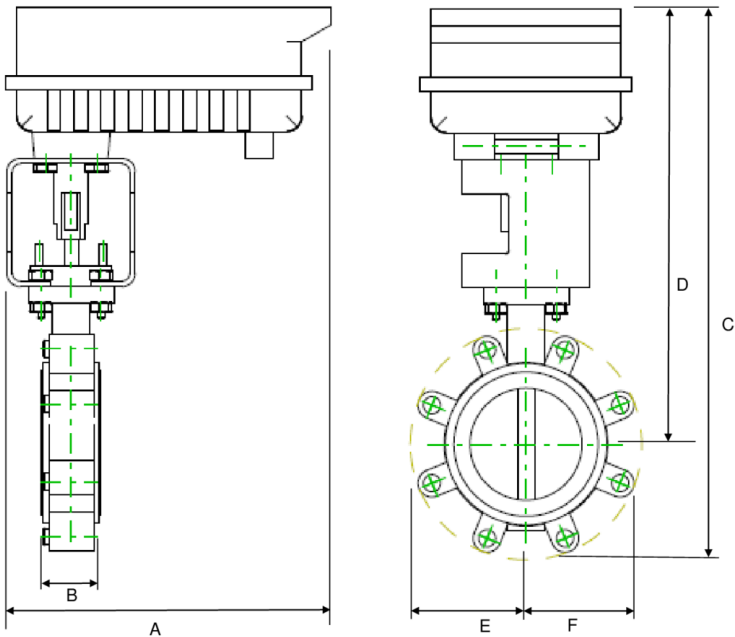


A	B	C	D	E	F	Number of Bolt Holes
10.9" [277]	2.2" [56]	20.3" [515]	15.5" [394]	4.9" [124]	4.9" [125]	8



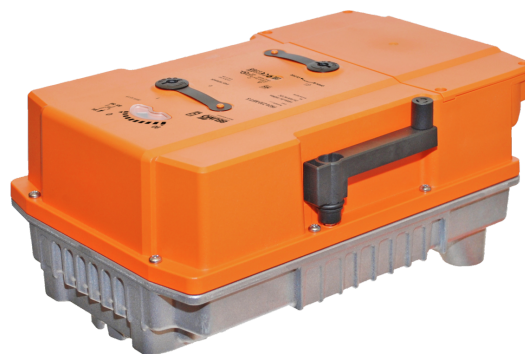
A	B	C	D	E	F	Number of Bolt Holes
9.1" [231]	2.2" [56]	17.2" [438]	13.3" [338]	3.9" [100]	3.9" [100]	8

Dimensions

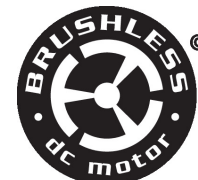


A	B	C	D	E	F	Number of Bolt Holes
14.1" [358]	2.2" [56]	24.9" [632]	19.6" [498]	5.4" [137]	5.4" [137]	8

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



5-year warranty



Technical data

Electrical data	Nominal voltage	AC 24...240 V / DC 24...125 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...264 V / DC 19.2...137.5 V
	Power consumption in operation	23 W
	Power consumption in rest position	7.5 W
	Transformer sizing	with 24 V 23 VA / with 240 V 55 VA
	Auxiliary switch	2x SPDT, 1 mA...3 A (0.5 A inductive), DC 5 V...AC 250 V (II, reinforced insulation), 1x 10° / 1x 0...90° (default setting 85°)
	Switching capacity auxiliary switch	1 mA...3 A (0.5 A inductive), DC 5 V...AC 250 V (II, reinforced insulation)
	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 / 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
	Housing	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	-22...122°F [-30...50°C]
	Servicing	maintenance-free
Weight	Weight	6.8 lb [3.1 kg]
Materials	Housing material	Die cast aluminium and plastic casing

Safety notes



- For maintenance work, the correct valve position must be set via the control signal. Additionally, the actuator must be disconnected from the power source. The hand crank and manual override shall not be used as a safety measure to maintain the valve position.

Product features

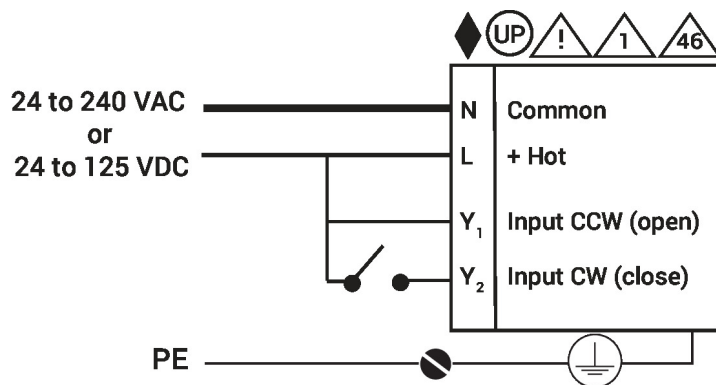
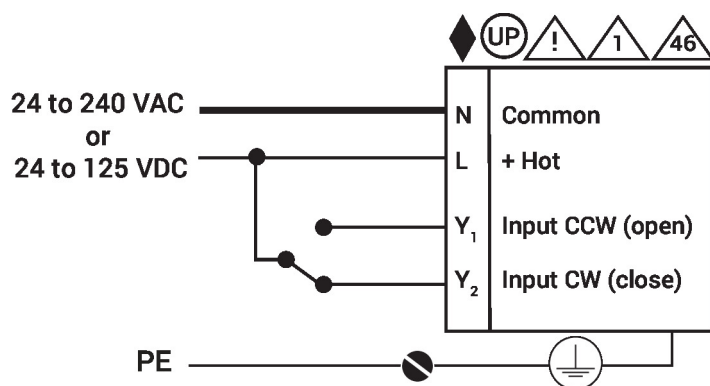
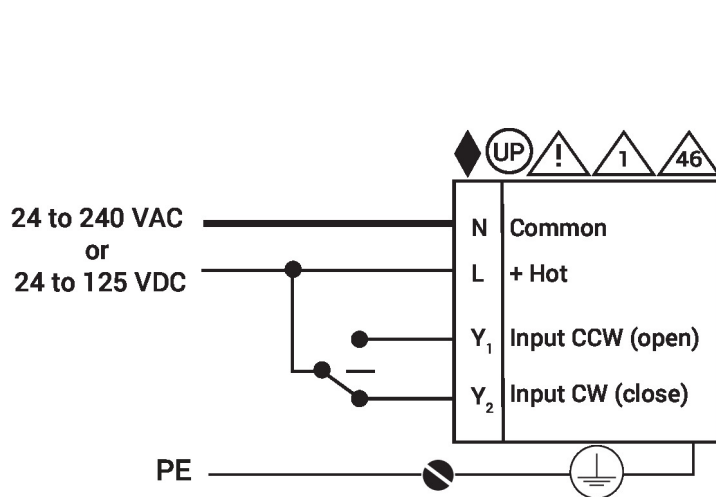
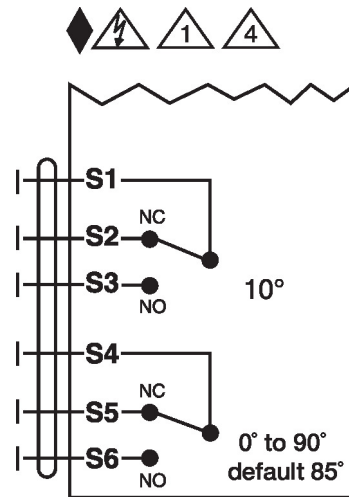
- Application** PR Series valve actuators are designed with an integrated linkage and visual position indicators. For outdoor applications, the installed valve must be mounted with the actuator at or above horizontal. For indoor applications the actuator can be in any location including directly under 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 AC 24...240 V, or DC 24...125 V.
- 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.

Electrical installation
Wiring diagrams
On/Off

On/Off

Floating Point

Auxiliary Switches


Dimensions

