

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
F680-150SHP	80

Technical data

Functional data	Valve size [mm]	3" [80]
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	228	
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)

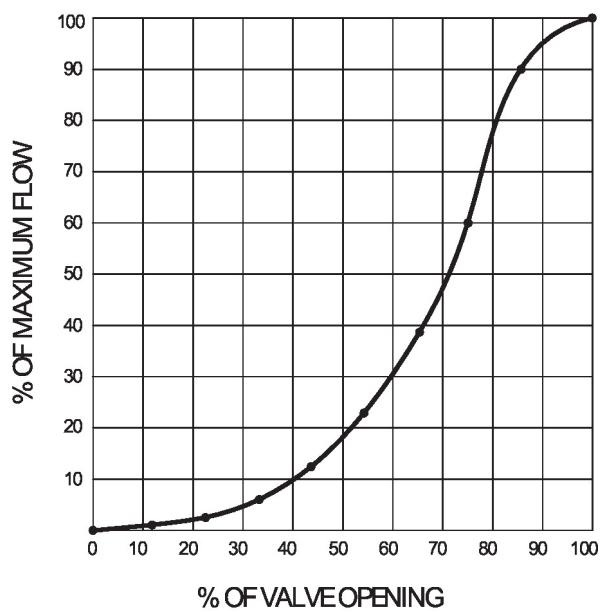
Safety notes



- 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

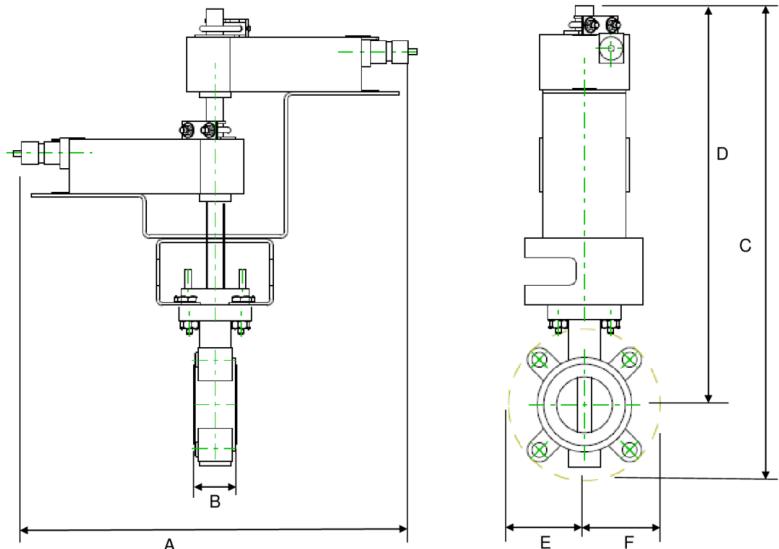
Product features

Flow/Mounting details

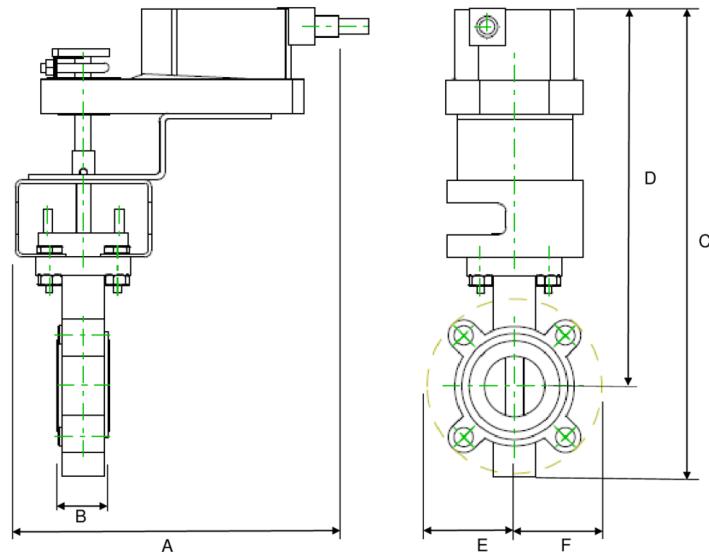


Dimensions

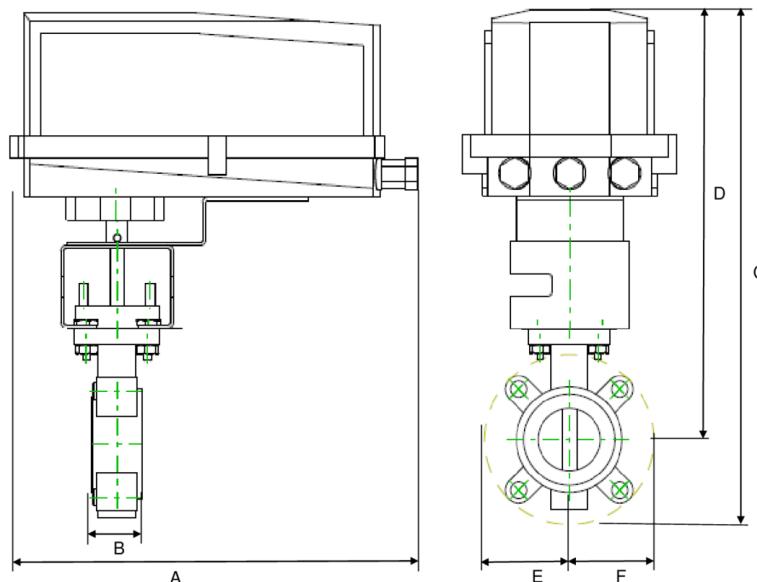
Type	DN	Weight
F680-150SHP	80	4.8 lb [2.2 kg]



A	B	C	D	E	F	Number of Bolt Holes
18.0" [457]	1.9" [49]	20.0" [509]	17.0" [431]	3.5" [89]	3.5" [89]	4



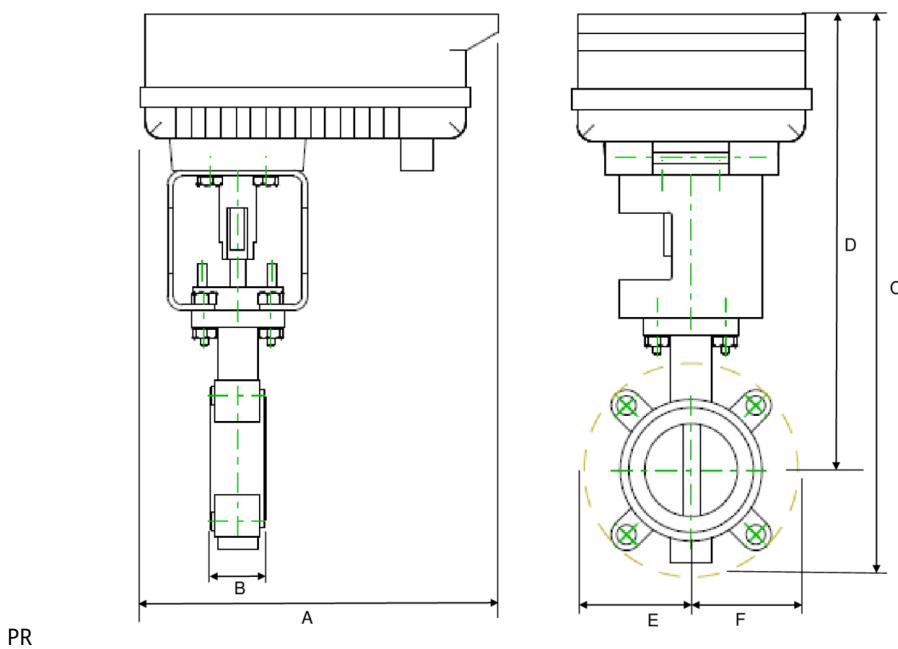
A	B	C	D	E	F	Number of Bolt Holes
10.9" [277]	1.9" [49]	17.9" [454]	13.2" [336]	4.9" [124]	4.9" [125]	4



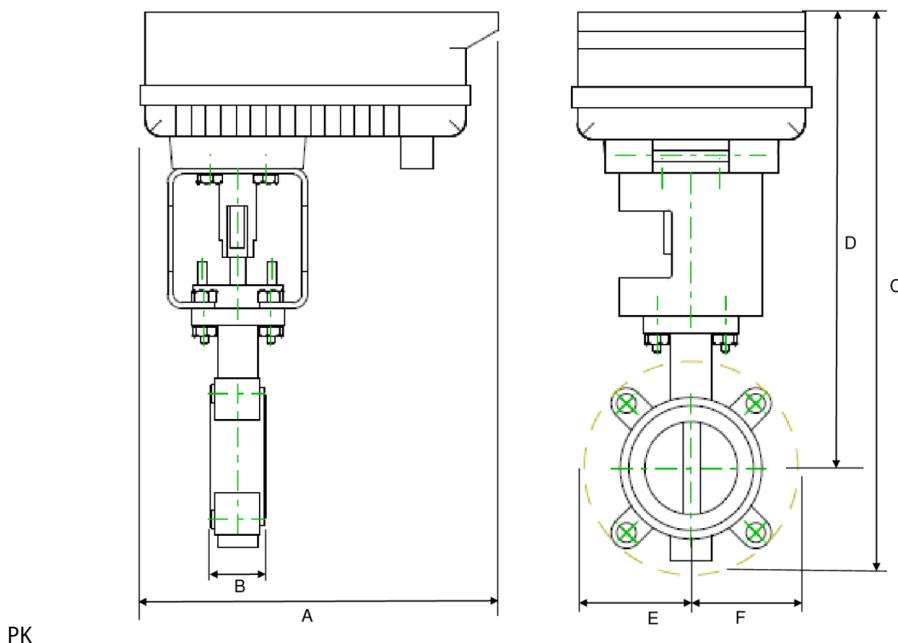
GM N4

A	B	C	D	E	F	Number of Bolt Holes
9.1" [231]	1.9" [49]	13.9" [354]	10.0" [254]	3.9" [100]	3.9" [100]	4

Dimensions



A	B	C	D	E	F	Number of Bolt Holes
14.1" [358]	1.9" [49]	19.8" [502]	14.5" [368]	5.2" [133]	5.2" [133]	4



A	B	C	D	E	F	Number of Bolt Holes
12.0" [304]	1.9" [49]	22.4" [570]	17.5" [445]	4.9" [124]	4.9" [125]	4
A	B	C	D	E	F	Number of Bolt Holes
11.7" [298]	1.9" [49]	18.5" [470]	15.0" [381]	3.5" [89]	3.5" [89]	4

On/Off, Spring return, 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 21.6...137.5 V
	Power consumption in operation	7 W
	Power consumption in rest position	3.5 W
	Transformer sizing	36 VA
	Electrical Connection	18 GA appliance cable, 3 ft [1 m], with 1/2" NPT conduit connector
	Overload Protection	electronic throughout 0...90° rotation
Functional data	Direction of motion motor	selectable by ccw/cw mounting
	Direction of motion fail-safe	reversible with cw/ccw mounting
	Manual override	5 mm hex crank (3/16" Allen), supplied
	Angle of rotation	95°
	Running Time (Motor)	75 s / 90°
	Running time fail-safe	<20 s
	Noise level, motor	50 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	Mechanical, 30...65 mm stroke
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Housing	UL Enclosure Type 2
	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU
	Quality Standard	ISO 9001
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC
	Ambient humidity	Max. 95% RH, non-condensing
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Servicing	maintenance-free

Technical data

Weight	Weight	□
Materials	Housing material	Galvanized steel and plastic housing

Footnotes †Rated Impulse Voltage 4kV, Type of action 1.AA, Control Pollution Degree 3.

Electrical installation

 **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.

- A** Actuators with appliance cables are numbered.
- UP** Universal Power Supply (UP) models can be supplied with AC 24...240 V, or DC 24...125 V.
- ⚠** Apply only AC line voltage or only UL-Class 2 voltage to the terminals of auxiliary switches. Mixed or combined operation of line voltage/safety extra low voltage is not allowed.
- ◆** Meets cULus requirements without the need of an electrical ground connection.
- 1** Provide overload protection and disconnect as required.
- 3** Actuators may also be powered by DC 24 V.
- 45** Actuators may be powered in parallel. Power consumption must be observed.
- 48** Parallel wiring required for piggy-back applications.

Wiring diagrams

On/Off

24 to 240 VAC

