

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

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Type overview		
Гуре		DN
665-150SHP		65
echnical 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 150
	Close-off pressure Δps	150 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	146
	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)
		61/55/00

Safety notes



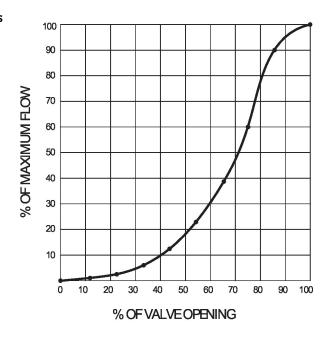
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

GKRB(X)



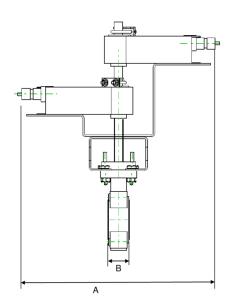
Product features

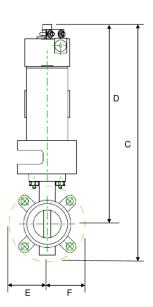
Flow/Mounting details



Dimensions

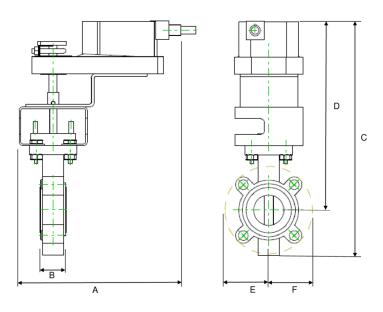
Туре	DN	Weight	
F665-150SHP	65	410 lb [190 kg]	



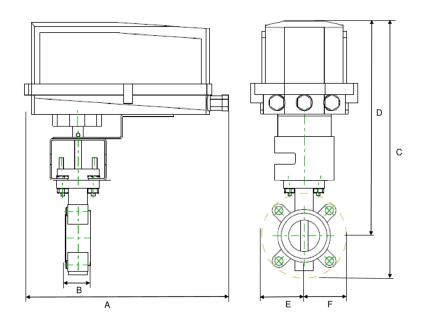


Α	В	С	D	E	F	Number of Bolt Holes
18.0" [457]	1.9" [49]	20.0" [509]	17.0" [431]	3.3" [85]	3.3" [85]	4





Α	В	С	D	E	F	Number of Bolt Holes
10.9" [277]	1.9" [49]	14.4" [366]	9.6" [243]	4.9" [124]	4.9" [125]	4

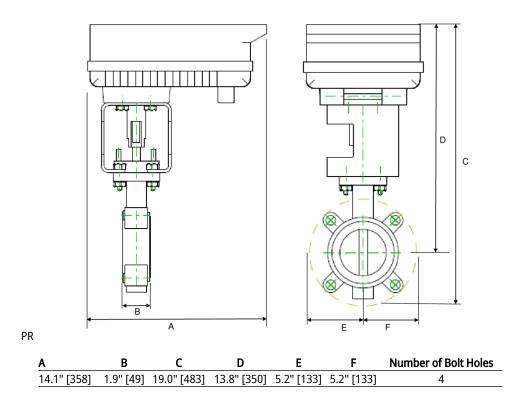


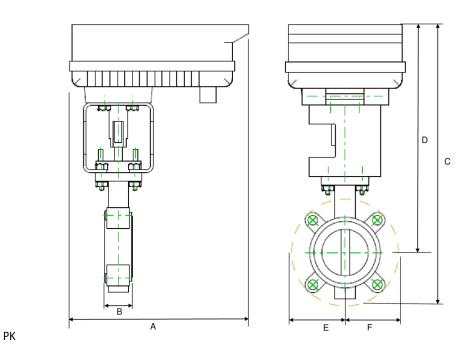
GM N4

Α	В	C	D	E	F	Number of Bolt Holes
9.1" [231]	1.9" [49]	13.0" [330]	9.2" [234]	3.9" [100]	3.9" [100]	4



Dimensions





Α	В	C	D	E	F	Number of Bolt Holes
12.0" [304]	1.9" [49]	21.4" [544]	16.8" [426]	4.9" [124]	4.9" [125]	4
A	В	С	D	Е	F	Number of Bolt Holes
11.7" [298]	1 0" [/0]	17 5" [//5]	14.2" [361]	2 2" [0[]	2 2" [0[]	1







Technical data

Electrical data	Nominal voltage	AC/DC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V		
	Power consumption in operation	8 W		
	Power consumption in rest position	2.5 W		
	Transformer sizing	11 VA		
	Electrical Connection	Terminal blocks		
	Overload Protection	electronic throughout 095° rotation		
Functional data	Direction of motion motor	selectable with switch 0/1		
	Manual override	under cover		
	Angle of rotation	Max. 95°		
	Angle of rotation note	adjustable with mechanical stop		
	Running Time (Motor)	35 s / 90°		
	Running time motor note	constant, independent of load		
	Noise level, motor	45 dB(A)		
	Position indication	Mechanical, 520 mm stroke		
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]		
	Ambient temperature note	-4050°C for actuator with integrated heating		
	Storage temperature	-40176°F [-4080°C]		
	Servicing	maintenance-free		
Weight	Weight	5.2 lb [2.3 kg]		
Materials	Housing material	Die cast aluminium and plastic casing		

Footnotes †Rated Impulse Voltage 800V, Type action 1, Control Pollution Degree 3.



Accessories

Electrical accessories	Description	Туре
	Battery backup system, for non-spring return models	NSV24 US
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
Factory add-on option only	Description	Туре
	Heater, with adjustable thermostat	ACT_PACK_H

Electrical installation

INSTALLATION NOTES

🚹 Provide overload protection and disconnect as required.

🐧 Actuators may also be powered by DC 24 V.

For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.

🛕 IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

Actuators are provided with a numbered screw terminal strip instead of a cable.

 $\label{lem:meets} \mbox{Meets cULus requirements without the need of an electrical ground connection.}$

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.

Wiring diagrams

