

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

ype overview		
Гуре		DN
-750-150SHP		50
echnical data		
Functional data	Valve size [mm]	2" [50]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	-22400°F [-30204°C]
	Body Pressure Rating	ANSI Class 150
	Close-off pressure ∆ps	285 psi
	Flow characteristic	modified linear, unidirectional
	Leakage rate	0%
	Pipe connection	Flange for use with ASME/ANSI class 150
	Servicing	maintenance-free
	Flow Pattern	3-way Mixing/Diverting
	Controllable flow range	quarter turn, mechanically limited
	Cv	102
	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	2*GMB(X) PRB(X) GMB(X)
	Electronic fail-safe	2*GKB(X)

Safety notes



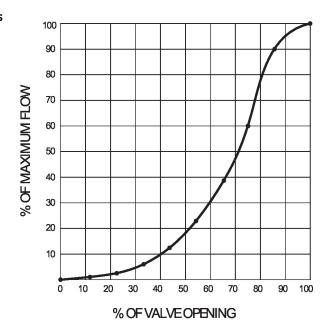
• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

PKRB(X)



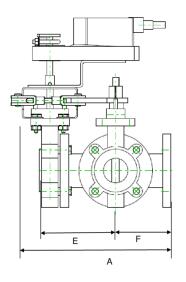
Product features

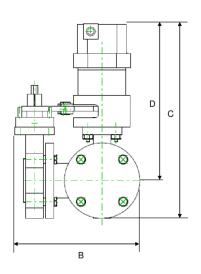
Flow/Mounting details



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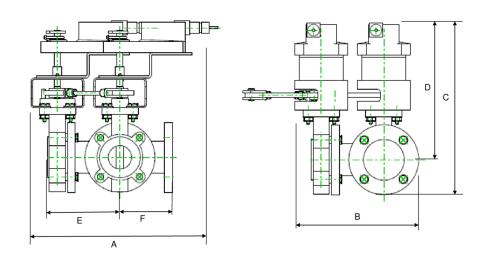
Туре	DN	Weight	
F750-150SHP	50	1100 lb [490 kg]	_





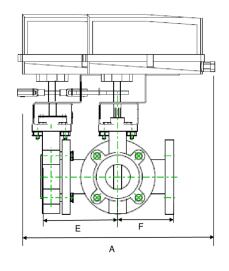
Α	В	С	D	E	F	Number of Bolt Holes
11.5" [293]	9.5" [241]	15.5" [393]	12.5" [318]	6.5" [165]	4.5" [114]	4

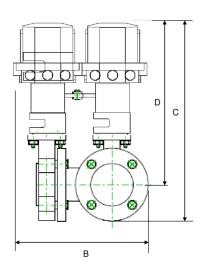




2*GM/2*GK

Α	В	С	D	E	F	Number of Bolt Holes
17.0" [433]	9.3" [235]	14.8" [375]	11.8" [300]	6.3" [160]	4.5" [114]	4

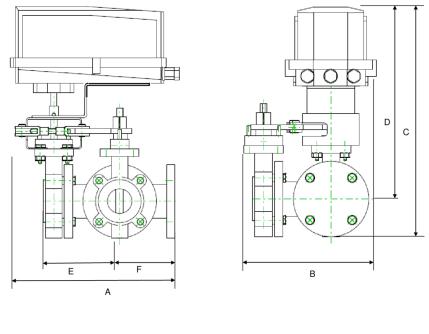




2*GM

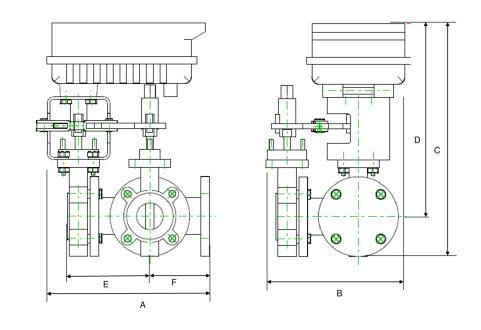
Α	В	C	D	Ε	F	Number of Bolt Holes
19.5" [495]	9.2" [234]	16.8" [426]	13.8" [350]	6.3" [160]	4.5" [114]	4





 A
 B
 C
 D
 E
 F
 Number of Bolt Holes

 11.3" [286]
 9.2" [234]
 15.5" [393]
 12.5" [318]
 6.3" [160]
 4.5" [114]
 4

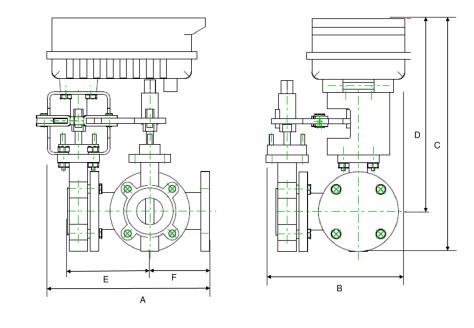


PR

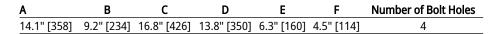
Α	В	C	D	E	F	Number of Bolt Holes
13.0" [330]	9.2" [234]	14.8" [375]	11.8" [300]	6.3" [160]	4.5" [114]	4



Dimensions



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MFT/programmable, Non fail-safe, 24 V





5-year warranty





Fechnical data		
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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	Operating range Y	210 V
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)
	Input impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for PWM, On/Off and Floating point
	Operating range Y variable	Start point 0.530 V End point 2.532 V
	Operating modes optional	variable (VDC, on/off, floating point)
	Position feedback U	210 V
	Position feedback U note	Max. 0.5 mA
	Position feedback U variable	VDC variable
	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)	150 s / 90°
	Running time motor variable	90150 s
	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

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	



Technical data Safety data cULus acc. to UL60730-1A/-2-14, CAN/CSA **Agency Listing** E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU ISO 9001 **Quality Standard** Ambient humidity Max. 100% RH Ambient temperature -22...122°F [-30...50°C] Ambient temperature note -40...50°C [104...122°F] for actuator with integrated heating -40...176°F [-40...80°C] Storage temperature Servicing maintenance-free Weight Weight 7.5 lb [3.4 kg] Materials Housing material Die cast aluminium and plastic casing

Technical data sheet

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
	Service tool, with ZIP-USB function, for programmable and	ZTH US
	communicative Belimo actuators, VAV controller and HVAC performance devices	
	Terminal-strip cover for NEMA 2 rating (-T models).	ZS-T
Factory add-on option only	Description	Туре
	Heater, with adjustable thermostat	ACT_PACK_H

Electrical installation



A Actuators with appliance cables are numbered.

\Lambda Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

Only connect common to negative (-) leg of control circuits.

 Λ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 V line.

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 may be controlled in parallel. Current draw and input impedance must be observed.

Master-Slave wiring required for piggy-back applications. Feedback from Master to control input(s) of Slave(s).

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.



Electrical installation

