Type overview

Butterfly Valve with Lug types

Reinforced Teflon Seat, 316 Stainless Steel





Туре			DN
-6100-300SHP			100
Fechnical data			
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	Functional data	Valve size [mm]	4" [100]
		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	451
		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

Safety notes



Suitable actuators

Bearing

Non-Spring

Electrical fail-safe

Gear operator materials

Disc

• 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

glass backed PTFE 316 stainless steel

GMB(X) (2*GMB(X)) PRB(X)

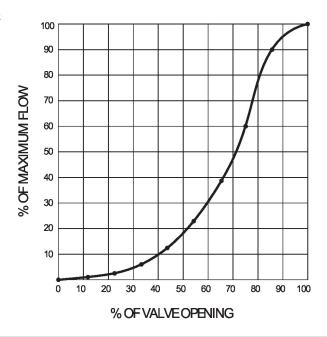
(2*GKB(X)) PKRB(X)

Gears - hardened steel



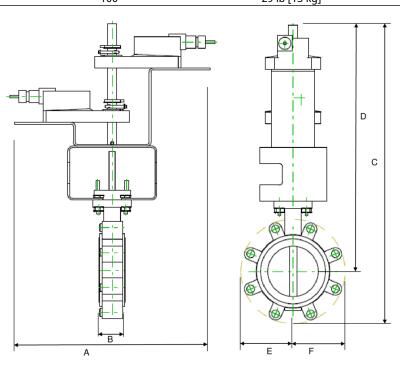
Product features

Flow/Mounting details



Dimensions

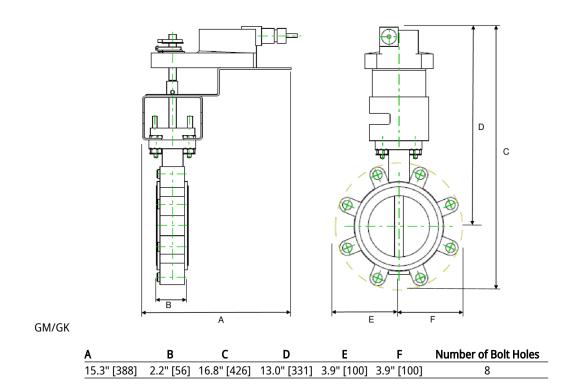
Туре	DN	Weight	
F6100-300SHP	100	29 lh [13 ka]	

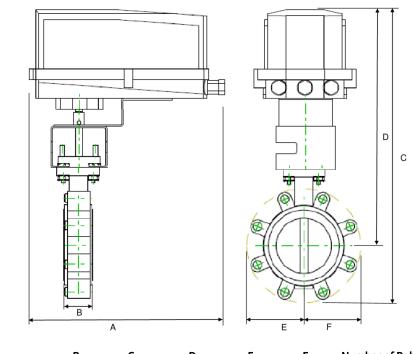


2*GM/2*GK

Α	В	С	D	E	F	Number of Bolt Holes
23.8" [605]	2.2" [56]	25.1" [638]	20.9" [530]	4.4" [113]	4.4" [113]	8





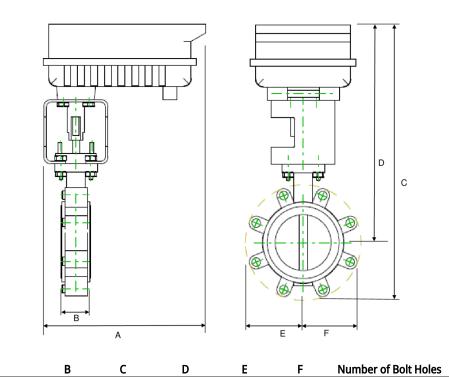


GK/GM N4

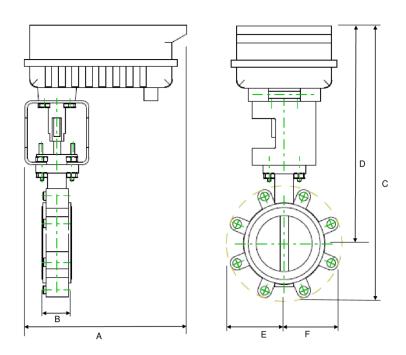
Α	В	C	D	Е	F	Number of Bolt Holes
10.9" [277]	2.2" [56]	18.7" [476]	14.0" [355]	4.9" [124]	4.9" [125]	8

PR





2.2" [56] 17.2" [438] 13.5" [342] 3.9" [100] 3.9" [100]









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	4 W
	Power consumption in rest position	2 W
	Transformer sizing	6 VA
	Electrical Connection	18 GA plenum cable, 1 m, with 1/2" NPT conduit connector, degree of protection NEMA 2 / IP54
	Overload Protection	electronic throughout 095° rotation
Functional data	Torque motor	40 Nm
	Direction of motion motor	selectable with switch 0/1
	Manual override	external push button
	Angle of rotation	Max. 95°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	150 s / 90°
	Running time motor note	constant, independent of load
	Noise level, motor	45 dB(A)
	Position indication	Mechanical, 3065 mm stroke
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2
	Enclosure	UL Enclosure Type 2
	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
	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	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	4.1 lb [1.9 kg]
Materials	Housing material	Galvanized steel and plastic housing
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Footnotes †Rated Impulse Voltage 800V, Type action 1, Control Pollution Degree 3.



Accessories

Description	Туре
Battery backup system, for non-spring return models	NSV24 US
Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
Feedback potentiometer 140 Ω add-on, grey	P140A GR
Feedback potentiometer 500 Ω add-on, grey	P500A GR
Feedback potentiometer 1 k Ω add-on, grey	P1000A GR
Feedback potentiometer 2.8 kΩ add-on, grey	P2800A GR
Feedback potentiometer 5 kΩ add-on, grey	P5000A GR
Feedback potentiometer 10 k Ω add-on, grey	P10000A GR
Auxiliary switch 1x SPDT add-on	S1A
Auxiliary switch 2x SPDT add-on	S2A

Electrical installation

X INSTALLATION NOTES

Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

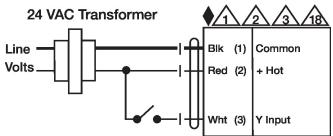
Meets cULus requirements without the need of an electrical ground connection.

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





Electrical accessories

