

Butterfly Valve with Lug types

- Disc 304 stainless steel
- Bubble tight shut-off
- Resilient seat
- Valve face-to-face dimensions comply with API 609 & MSS-SP-67
- Completely assembled and tested, ready for installation





	DN
	80
Valve size [mm]	3" [80]
Fluid	chilled or hot water, up to 60% glycol
Fluid Temp Range (water)	-22250°F [-30120°C]
Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP
Close-off pressure Δps	200 psi
Flow characteristic	modified equal percentage
Leakage rate	0% leakage, leakage rate A
Servicing	maintenance-free
Flow Pattern	2-way
Controllable flow range	90° rotation
Cv	302
Maximum Velocity	12 FPS
Lug threads	5/8-11 UNC
Valve body	Ductile cast iron ASTM A536
Body finish	epoxy powder coating (blue RAL 5002)
Stem	416 stainless steel
Stem seal	EPDM (lubricated)
Seat	EPDM
Pipe connection	for use with ANSI class 125/150 flanges
Bearing	RPTFE
Disc	304 stainless steel
Gear operator materials	Gears - hardened steel
Non-Spring	GRB(X)
	Fluid Temp Range (water) Body Pressure Rating Close-off pressure \(\Delta \)ps Flow characteristic Leakage rate Servicing Flow Pattern Controllable flow range Cv Maximum Velocity Lug threads Valve body Body finish Stem Stem Seat Pipe connection Bearing Disc Gear operator materials

Spring

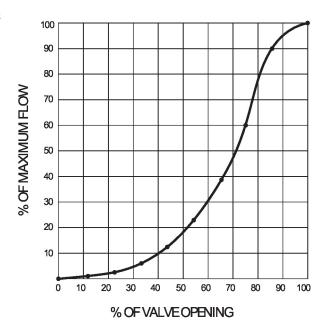
Electrical fail-safe

(2*AFB(X))

GKRB(X)

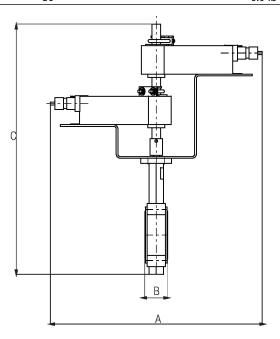
Product features

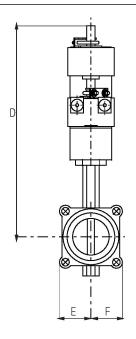
Flow/Mounting details



Dimensions

Туре	DN	Weight	
F680HD	80	6.9 lb [3.1 kg]	

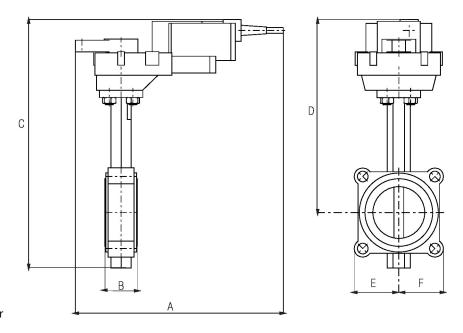




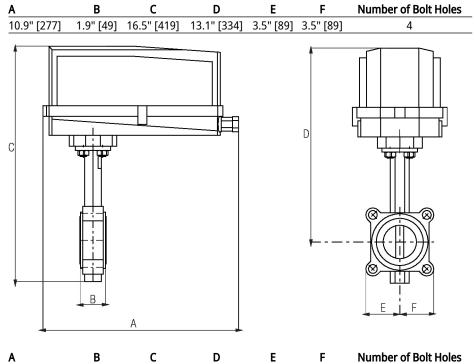
Valve with 2*AF Actuator

Α	В	С	D	E	F	Number of Bolt Holes
17.6" [448]	1.9" [49]	21.4" [544]	18.0" [457]	3.5" [89]	3.5" [89]	4





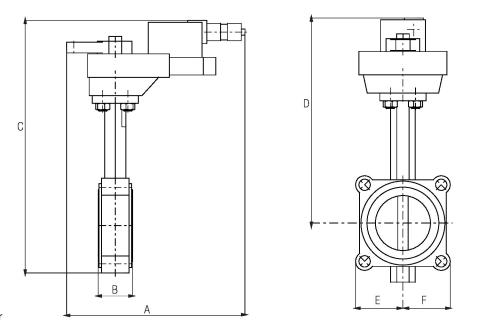
Valve with GK Actuator



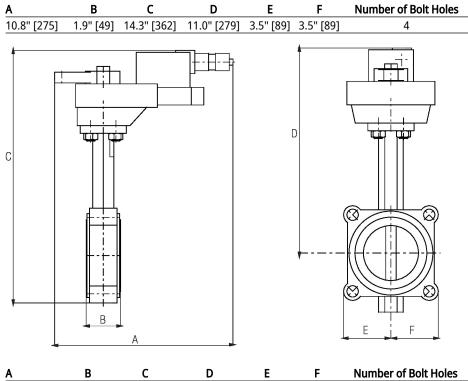
Valve with GR/GK..N4 Actuator

Α	В	С	D	E	F	Number of Bolt Holes
14.1" [358]	1.9" [49]	17.8" [451]	14.3" [363]	3.7" [95]	3.7" [95]	4





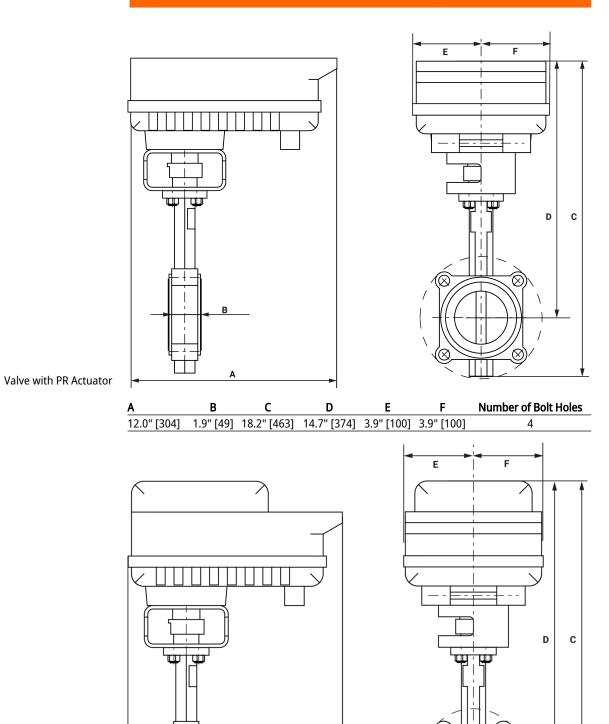
Valve with GR Actuator



Valve with GM Actuator

Α	В	С	D	E	F	Number of Bolt Holes
9.1" [231]	1.9" [49]	16.5" [419]	13.1" [334]	3.5" [89]	3.5" [89]	4

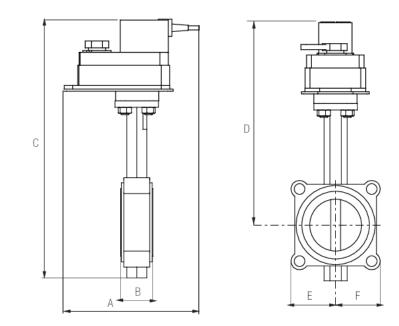




Valve with PK actuator

-			7			
Α	В	C	D	E	F	Number of Bolt Holes
12.0" [304]	1.9" [49]	19.8" [502]	16.5" [419]	3.9" [100]	3.9" [100]	4





Valve with DR actuator

Α	В	C	D	Ε	F	Number of Bolt Holes
11.3" [286]	1.9" [49]	15.6" [397]	12.4" [315]	3.5" [89]	3.5" [89]	4

Technical data

100...240 V

On/Off, Floating Point, Non-Spring Return, AC

Technical data sheet GRCX120-3



Electrical data	Nominal voltage	AC/DC 100240 V		
	Nominal voltage frequency	50/60 Hz		
	Nominal voltage range	AC 85265 V		
	Power consumption in operation	6 W		
	Power consumption in rest position	2 W		
	Transformer sizing	11 VA		
	Electrical Connection	18 GA plenum cable, 1 m, with 1/2" conduit connector, degree of protection NEMA 2 / IP54		
	Overload Protection	electronic thoughout 090° rotation		
Functional data	Direction of motion motor	selectable with switch 0/1		
	Manual override	external push button		
	Angle of rotation	90°		
	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	60 dB(A)		
	Position indication	integrated into handle		
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	3.53 lb [1.6 kg]		
Materials	Housing material	Galvanized steel and plastic housing		

Footnotes †Rated Impulse Voltage 2.5kV, Type of Action 1.AA, Control Pollution Degree 3.



Electrical installation

X INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

 $_{\Delta}$ Actuators may be connected in parallel. Power consumption and input impedance must be observed.

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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

