

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





Type overview		
Туре		DN
F665HD		65
Technical data		
Functional data	Valve size [mm]	2.5" [65]
	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	196
	Maximum Velocity	12 FPS
	Lug threads	5/8-11 UNC
Materials	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
Suitable actuators	Non-Spring	ARB(X)

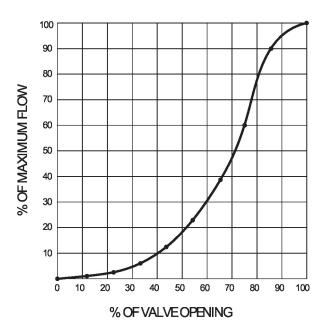
GRB(X)
AFRB(X)

Spring



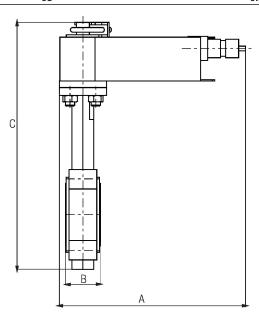
Product features

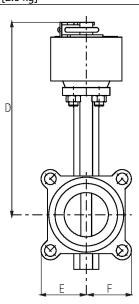
Flow/Mounting details



Dimensions

Туре	DN	Weight		
F665HD	65	6.2 lb [2.8 kg]		

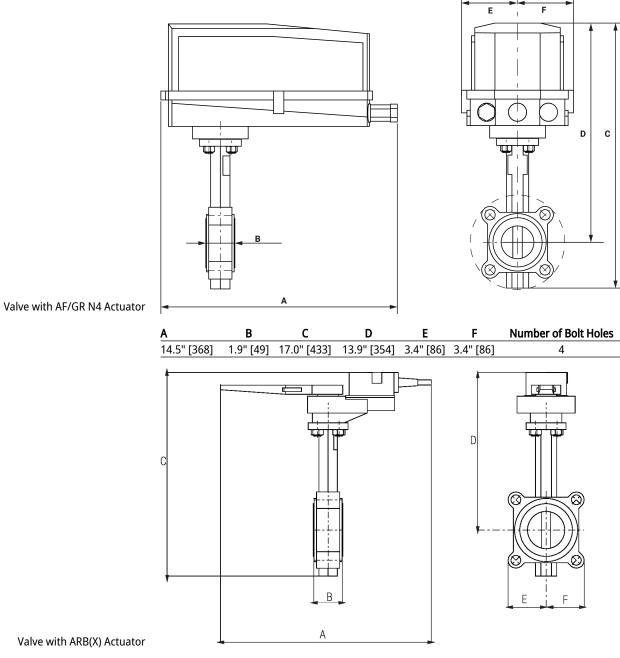




Valve with AFR Actuator

Α	В	C	D	E	F	Number of Bolt Holes
10 1" [257]	1 9" [49]	13 1" [333]	10 1" [256]	3 3" [85]	3 3" [85]	1



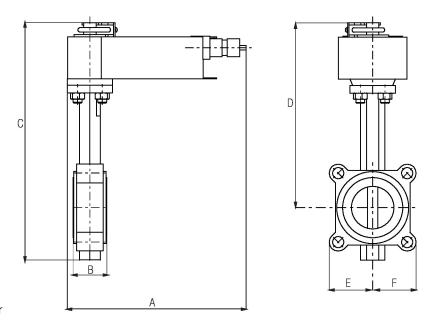


Valve with ARB(X) Actuator

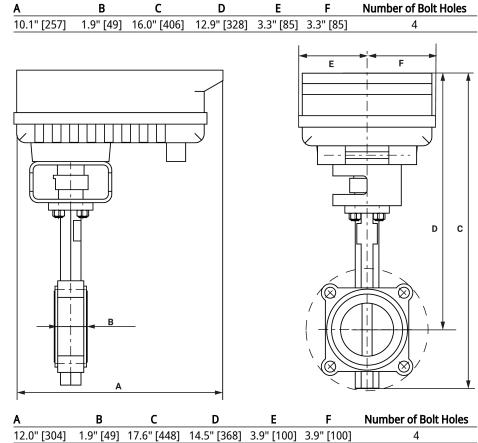
C

D 1.9" [49] 13.3" [337] 10.2" [260] 3.3" [85] 3.3" [85] **Number of Bolt Holes**



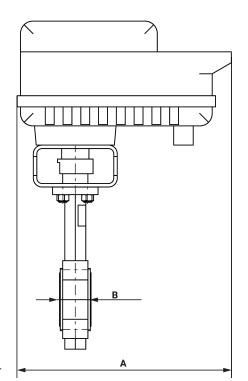


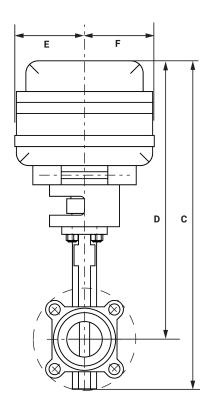
Valve with AFX24-MFT(-S) Actuator



Valve with PR Actuator







Valve with PK Actuator

Α	В	С	D	E	F	Number of Bolt Holes
12.0" [304]	1.9" [49]	19.3" [490]	16.2" [411]	3.9" [100]	3.9" [100]	4
A	В	С	D	E	F	Number of Bolt Holes
8.4" [213]	1.9" [49]	16.0" [406]	12.9" [328]	3.3" [85]	3.3" [85]	4
A	В	С	D	Е	F	Number of Bolt Holes
10.8" [275]	1.9" [49]	13.9" [354]	10.8" [274]	3.3" [85]	3.3" [85]	4



Technical data

Technical data sheet AFRXUP



Electrical data	Nominal voltage	AC 24240 V / DC 24125 V			
	Nominal voltage frequency	50/60 Hz			
	Nominal voltage range	AC 19.2264 V / DC 21.6137.5 V			
	Power consumption in operation	7 W			
	Power consumption in rest position	3.5 W			
	Electrical Connection	18 GA appliance cable, 1 m, with 1/2" conduit connector			
	Overload Protection	electronic throughout 095° 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	90°			
	Running Time (Motor)	75 s / 90°			
	Running time fail-safe	<20 s @ 20°C			
	Noise level, motor	45 dB(A)			
	Noise level, fail-safe	62 dB(A)			
	Position indication	Mechanical			
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			

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



Electrical installation

X INSTALLATION NOTES

(A) Actuators with appliance cables are numbered.

(UP) Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.

Provide overload protection and disconnect as required.

Actuators may be powered in parallel. Power consumption must be observed.

Parallel wiring required for piggy-back applications.

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

Marning! 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

