

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



F665HD





Type overview

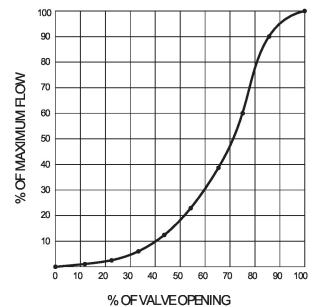
Туре	DN
F665HD	65

Technical data

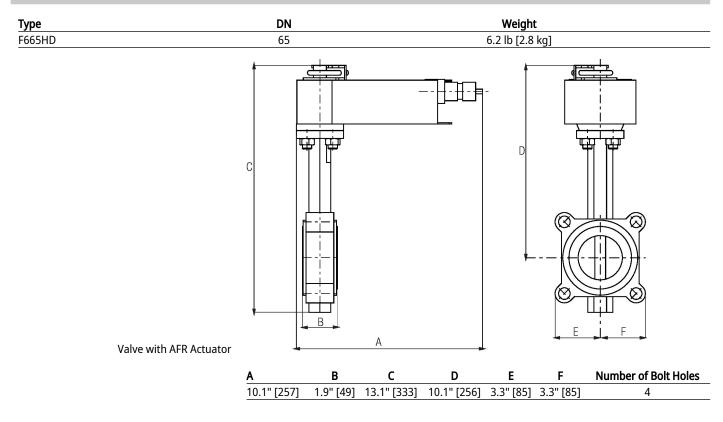
Functional data	Valve size [mm]	2.5" [65]		
	Fluid	chilled or hot water, up to 60% glycol		
	Fluid Temp Range (water)	-22250°F [-30120°C]		
	Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP		
	Close-off pressure ∆ps	200 psi		
	Flow characteristic	modified equal percentage		
	Leakage rate	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)		
	Spring	AFRB(X)		



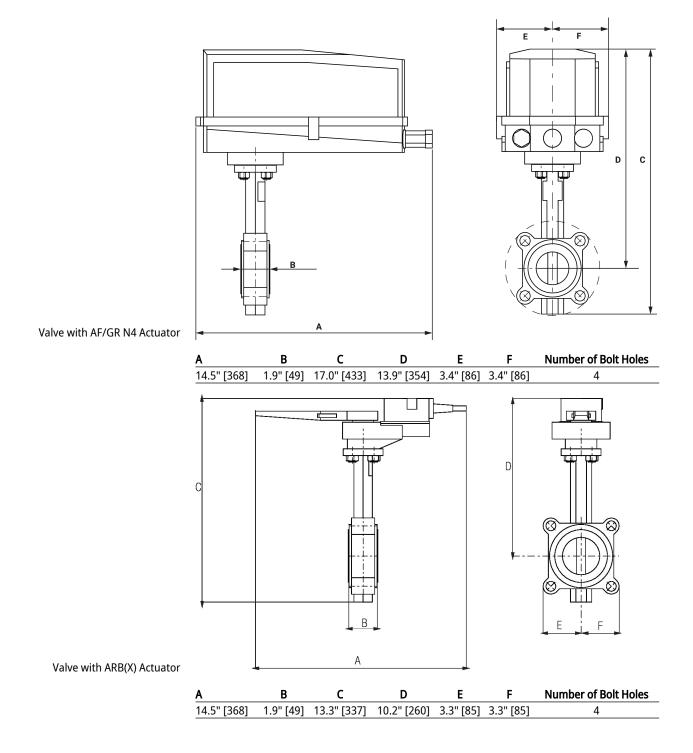
Flow/Mounting details



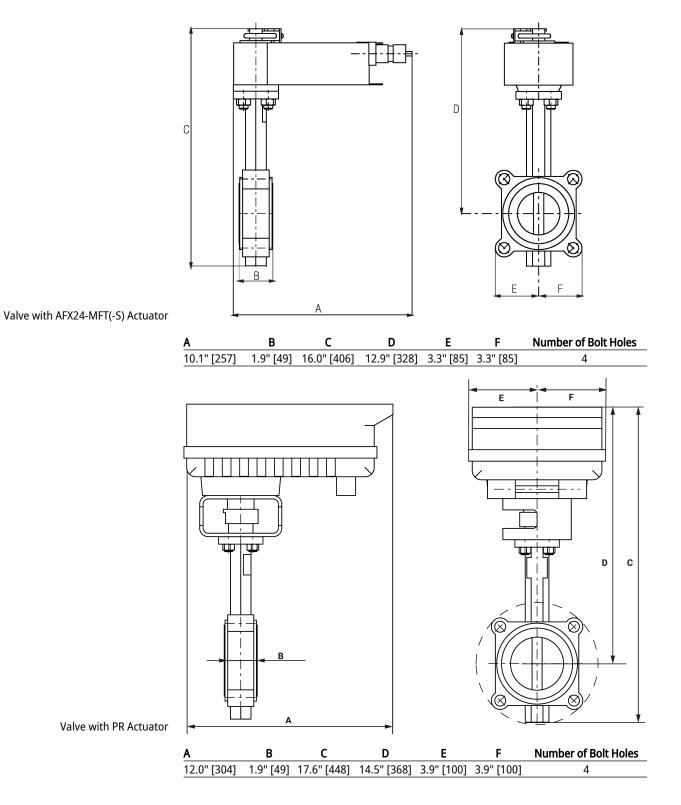
Dimensions



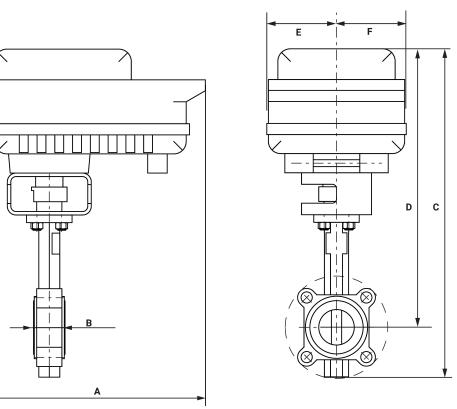












Valve with PK Actuator

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A	В	с	D	Е	F	Number of Bolt Holes
12.0" [304]	1.9" [49]	19.3" [490]	16.2" [411]	3.9" [100]	3.9" [100]	4
Α	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 sheet

AFRXUP-S



Technical data

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		
	Auxiliary switch	2x SPDT, 1 mA3 A (0.5 A inductive), DC 5 VAC 250 V, one set at 10°, one adjustable 1090°		
	Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), DC 5 VAC 250 V		
	Electrical Connection	(2) 18 GA appliance cables, 1 m, with 1/2" NPT conduit connectors		
	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		
	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	5.2 lb [2.4 kg]		
Materials	Housing material	Galvanized steel and plastic housing		

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



Technical data sheet

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.

 \bigwedge Provide overload protection and disconnect as required.

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

A Parallel wiring required for piggy-back applications.

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

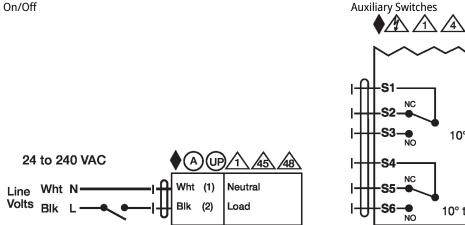
Marning! Live electrical components!

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.

10°

10° to 90°

Wiring diagrams On/Off



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