

Technical data sheet

F665HD

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

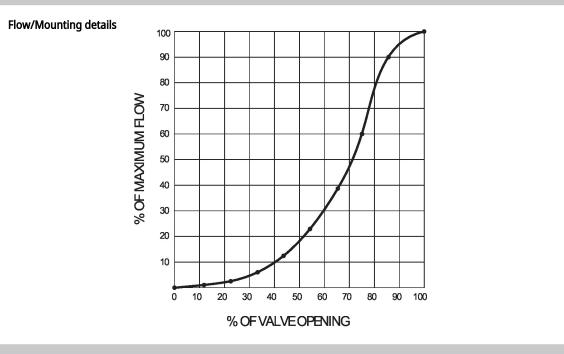
Туре	DN
F665HD	65

Technical data

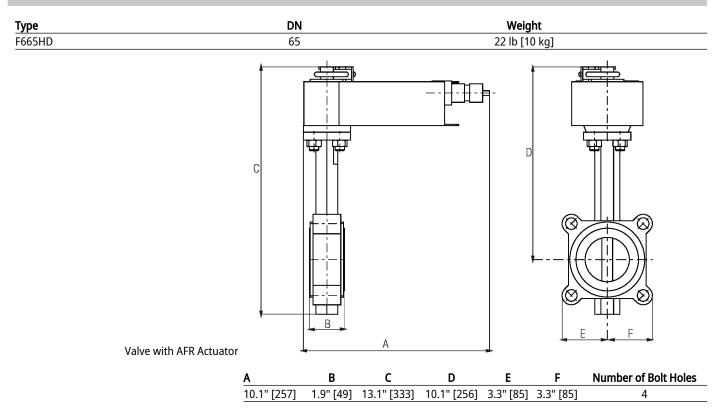
Functional data	Valve size [mm]	2.5" [65]			
	Fluid	chilled or hot water, up to 60% glycol			
	Fluid Temp Range (water)	-22250°F [-30120°C]			
	Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP			
	Close-off pressure Δps	200 psi			
	Flow characteristic	modified equal percentage 0% leakage, leakage rateA			
	Leakage rate				
	Pipe connection	Flange			
		for use with ASME/ANSI class 125/150			
	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			
	Bearing	RPTFE			
	Disc	304 stainless steel			
Suitable actuators	Non Fail-Safe	ARB(X)			
		GRB(X)			
	Spring	AFRB(X)			



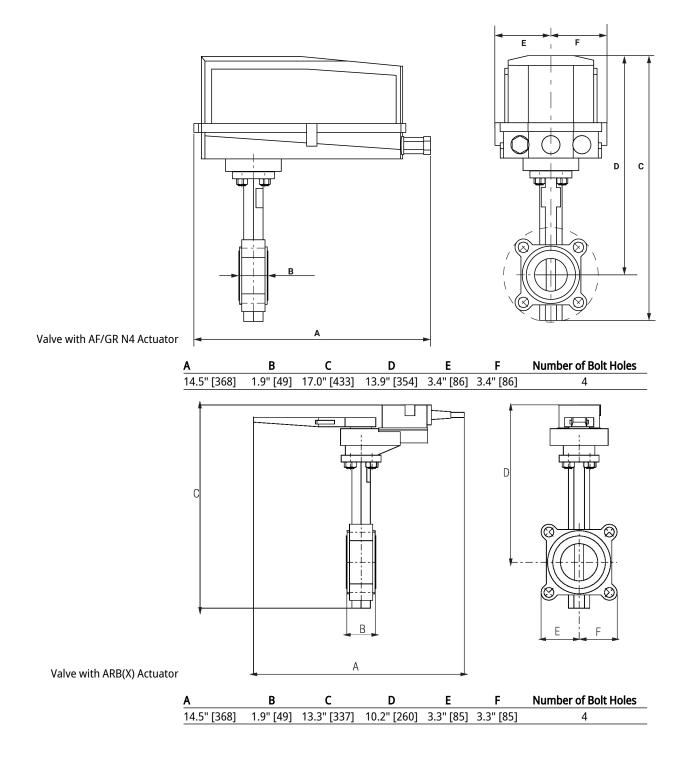
Product features



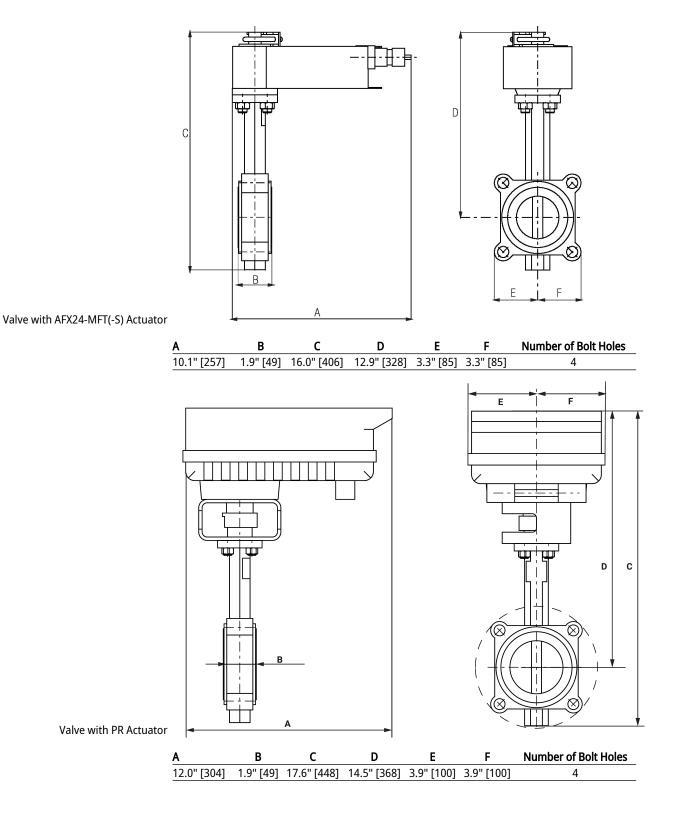
Dimensions



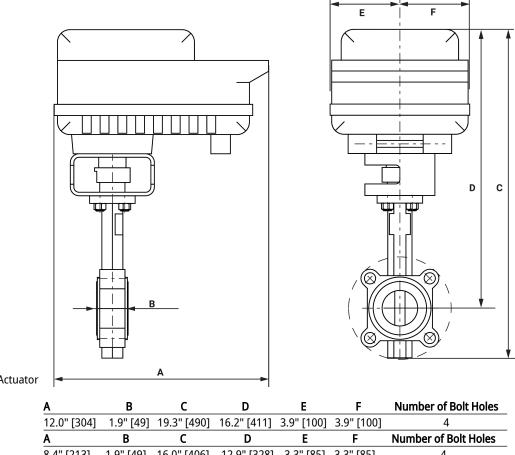












Valve with PK Actuator

8.4" [213] 1.9" [49] 16.0" [406] 12.9" [328] 3.3" [85] 3.3" [85] 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 B C 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 B C D E F Number of Bolt Holes	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
10.8" [275] 1.9" [49] 13.9" [354] 10.8" [274] 3.3" [85] 3.3" [85] 4	A	В	С	D	E	F	Number of Bolt Holes
	10.8" [275]	1.9" [49]	13.9" [354]	10.8" [274]	3.3" [85]	3.3" [85]	4



Modulating, Non fail-safe, 100...240 V







Technical data

	Nominal voltage frequency Nominal voltage range	50/60 Hz
		AC 85265 V
	Power consumption in operation	6 W
	Power consumption in rest position	2 W
	Electrical Connection	1/2" NPT conduit connector, screw terminals
	Overload Protection	electronic thoughout 090° rotation
Functional data	Input impedance	500 Ω
	Position feedback U	210 V
	Position feedback U note	Max. 0.5 mA
	Direction of motion motor	selectable with switch 0/1
	Manual override	under cover
	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	Mechanical, 520 mm stroke
Safety data	Degree of protection IEC/EN	IP66/67
	Degree of protection NEMA/UL	NEMA 4X
	Enclosure	UL Enclosure Type 4X
	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
	Ambient humidity	Max. 100% RH
	Ambient temperature	-22122°F [-3050°C]
	Ambient temperature note	-4050°C for actuator with integrated heating
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	6.9 lb [3.1 kg]
Materials	Housing material	Die cast aluminium and plastic casing

Footnotes TRated Impulse Voltage 4kV, Type of action 1, Control Pollution Degree 3.



Accessories

Factory add-on option only Description Type ACT_PACK_H Heater, with adjustable thermostat Heater, with adjustable thermostat ACT_PACK_Y **Electrical installation**

X INSTALLATION NOTES

Provide overload protection and disconnect as required.

\land Actuators may be connected in parallel. Power consumption and input impedance must be observed.

- \Lambda Only connect common to negative (-) leg of control circuits.
- \triangle A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.
- \int_{16}^{16} Actuators are provided with a numbered screw terminal strip instead of a cable.

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

2...10 V / 4...20 mA Control AC 100...240 V

