

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



Technical data sheet

F650HD





Type overview

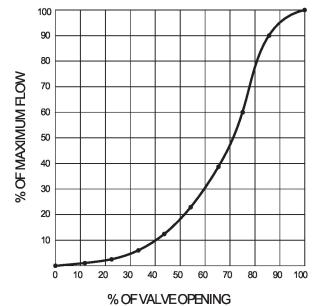
Туре	DN
F650HD	50

Technical data

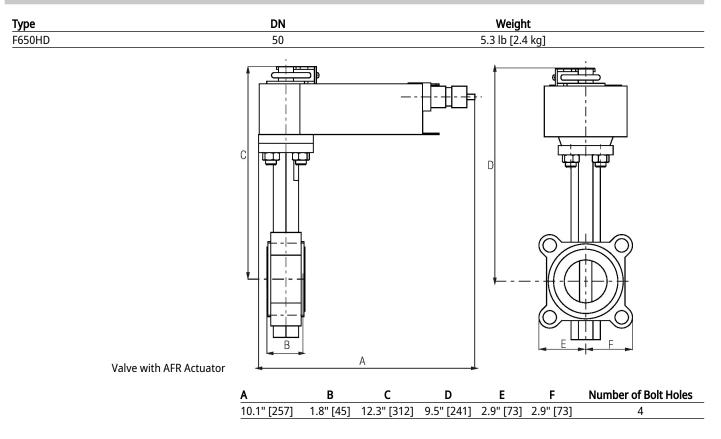
Functional data	Valve size [mm]	2" [50]	
	Fluid	chilled or hot water, up to 60% glycol	
	Fluid Temp Range (water)	-22250°F [-30120°C]	
	Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP	
	Close-off pressure ∆ps	200 psi	
	Flow characteristic	modified equal percentage	
	Leakage rate	0% leakage, leakage rate A	
	Servicing	maintenance-free	
	Flow Pattern	2-way	
	Controllable flow range	90° rotation	
	Cv	115	
	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)	



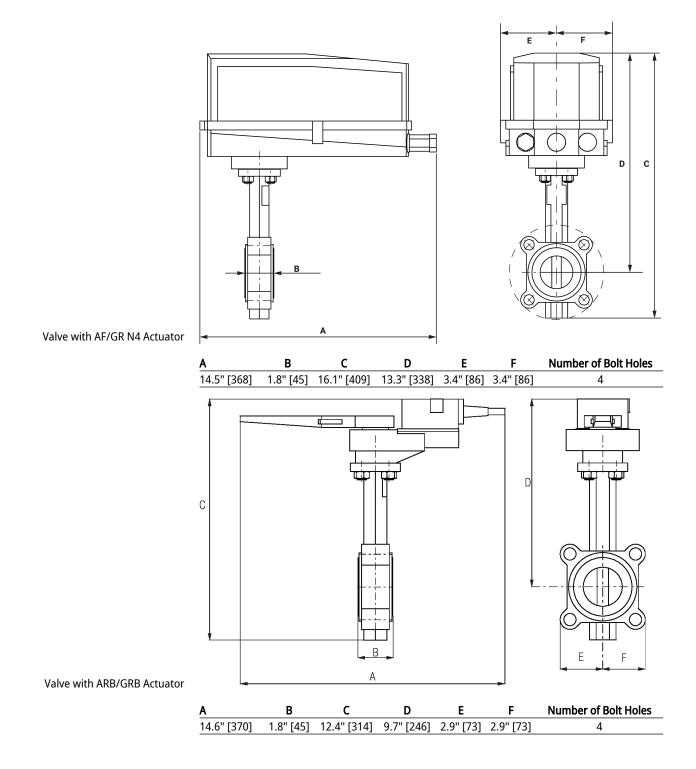
Flow/Mounting details



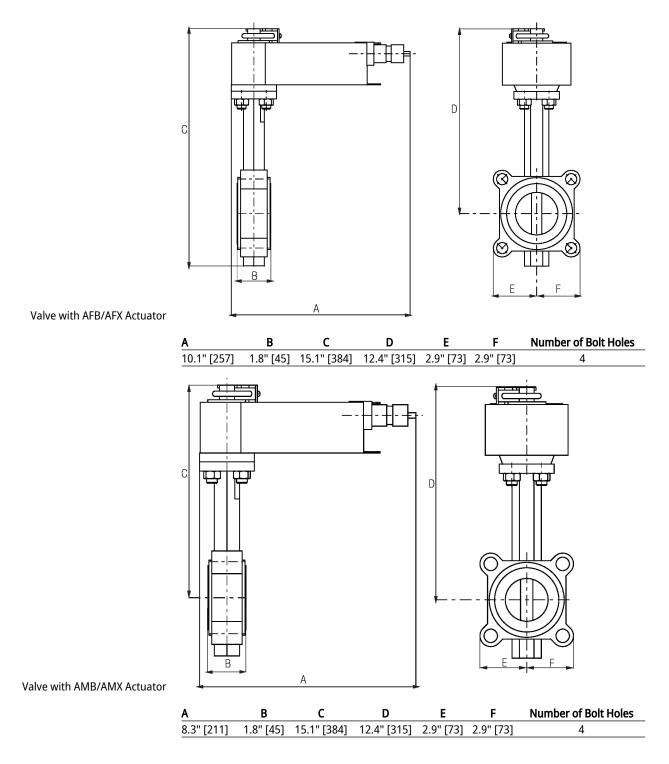
Dimensions



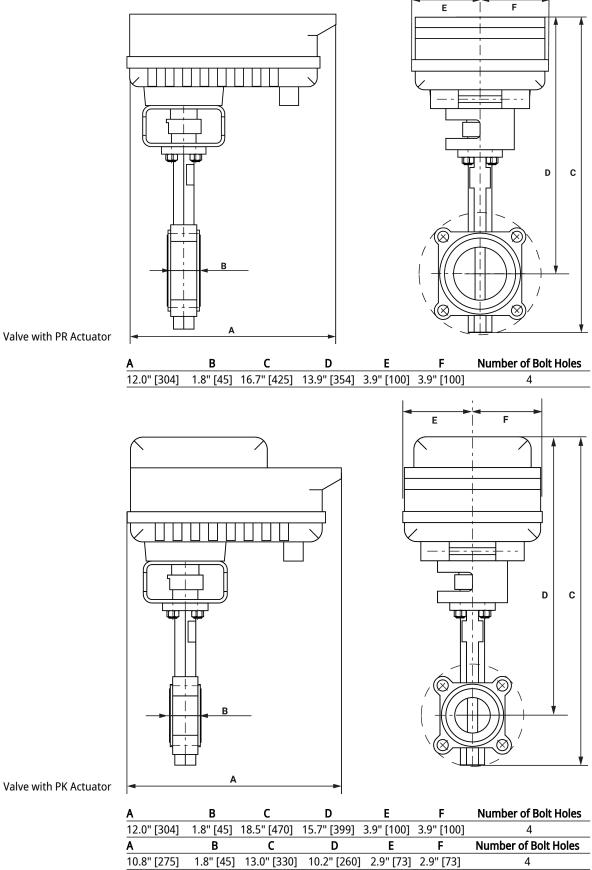












Valve with PR Actuator



On/Off, Floating Point, Non-Spring Return, AC 100...240 V







Technical data

Electrical data	Nominal voltage	AC 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 appliance cable, 1 m, with 1/2" conduit connector
	Overload Protection	electronic thoughout 090° rotation
unctional data	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	45 dB(A)
	Position indication	Mechanically, 520 mm stroke
Safety data	Power source UL	Class 2 Supply
	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	9.92 lb [4.5 kg]
Materials	Housing material	Die cast aluminium and plastic casing



GRCX120-3 N4

Factory add-on option only	Description	Туре
	Heater, with adjustable thermostat	N4 Heater Add-on
		24V (-H)
	Heater, with adjustable thermostat	N4 Heater Add-on
		230V (-Y)
Electrical installation		

\swarrow INSTALLATION NOTES

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A Actuators with appliance cables are numbered.

Provide overload protection and disconnect as required.

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

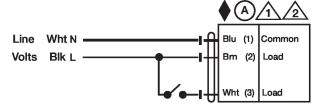
Meets cULus requirements without the need of an electrical ground connection.

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

On/Off AC 100...240 V



Floating Point AC 100...240 V

