

Technical data sheet

F6250VIC

Butterfly Valve with Grooved types

- Disc electroless nickel coated ductile iron
- Bubble tight shut-off
- Resilient seat

• Valve face-to-face dimensions comply with AWWA (c606) & MSS-SP-67

• Completely assembled and tested, ready for installation

• VIC-300 Masterseal is manufactured by the Victaulic Company.







Type overview

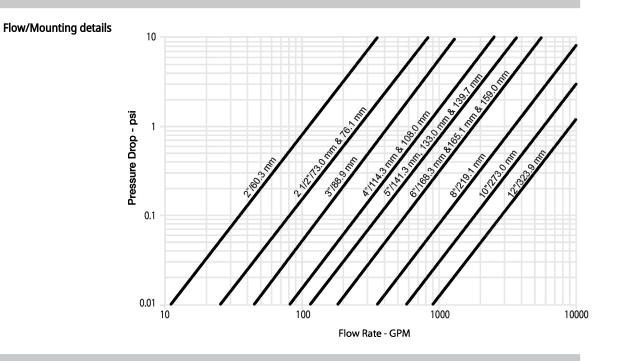
Туре	DN
F6250VIC	250

Technical data

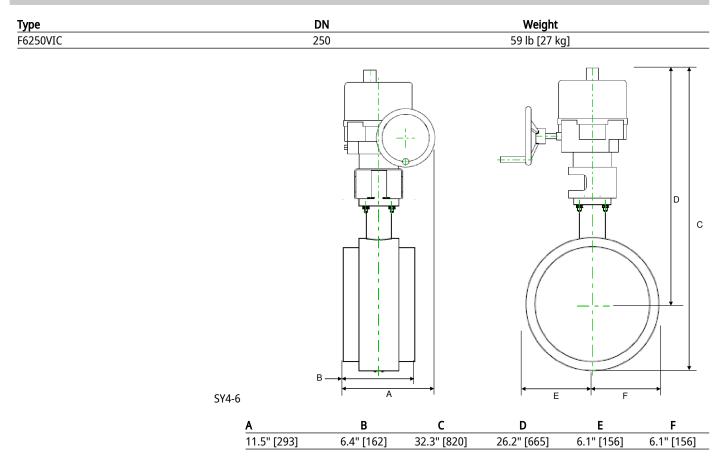
Functional data	Valve size [mm]	10" [250]	
	Fluid	chilled or hot water, up to 60% glycol	
	Fluid Temp Range (water)	-30120°C [-22250°F]	
	Body Pressure Rating	ANSI Class Grooved AWWA, 300 psi	
	Flow characteristic	modified equal percentage	
	Leakage rate	0%	
	Pipe connection	Grooved ANSI/AWWA (c606)	
	Servicing	maintenance-free	
	Flow Pattern	2-way	
	Controllable flow range	90° rotation	
	Cv	5800	
	Maximum Velocity	20 FPS	
Materials	Valve body	Ductile cast iron ASTM A536	
	Body finish	black alkyd enamel	
	Stem	416 stainless steel	
	Stem seal	fiberglass with TFE lining	
	Seat	EPDM	
	Disc	electroless nickel coated ductile iron	
Suitable actuators	Non Fail-Safe	SY5	



Product features



Dimensions





On/Off, Floating point, Non fail-safe, 120 V





Technical data

Electrical data	Nominal voltage	AC 120 V	
	Nominal voltage frequency	50/60 Hz	
	Nominal voltage range	AC 96132 V	
	Transformer sizing	240 VA	
	Current consumption	2 A	
	Auxiliary switch	2x SPDT, 1 mA5 A (3 A inductive), DC 5 VAC 250 V, 1 x 3° / 1 x 87°	
	Switching capacity auxiliary switch	1 mA5 A (3 A inductive), DC 5 VAC 250 V	
	Electrical Connection	Terminal blocks	
	Overload Protection	thermally protected 135°C cut-out	
	Internal Humidty Control	resistive heating element	
Functional data	Torque motor	500 Nm	
	Direction of motion motor	selectable with switch 0/1	
	Manual override	hand wheel	
	Angle of rotation	90°	
	Running Time (Motor)	26 s	
	uty cycle value 30%		
	Noise level, motor	45 dB(A)	
	Position indication	top mounted domed indicator	
Safety data	Degree of protection IEC/EN	IP66/67	
	Degree of protection NEMA/UL	NEMA 4X	
	Enclosure	UL Enclosure Type 4X	
	Agency Listing	ISO, CE, cCSAus	
	Quality Standard	ISO 9001	
	Ambient humidity	Max. 100% RH	
	Ambient temperature	-22149°F [-3065°C]	
	Storage temperature	-40176°F [-4080°C]	
	Servicing	maintenance-free	
Weight	Weight	46 lb [21 kg]	
Materials	Housing material	die cast aluminium	
	Gear train	high alloy steel gear sets, self locking	



Product features				
	Application	SY Series actuators are fractional horsepower devices, and utilize full-wave power supplies. Observe wire sizing and transformer sizing requirements. Proportional models CANNOT be connected to Belimo direct coupled (AF, AM, GMetc) actuator power supplies or any type of half-wave device. You MUST use a separate, dedicated transformer or power supply to power the SY actuator. Please do not connect other automation equipment to the dedicated SY supply source. You MUST use four wires (plus a ground) to control a proportional control SY actuator (See SY Wiring Section).		
Accessories				
	Electrical accessories	Description	Туре	
		Battery backup system for SY46 series actuator, AC 120 V, on/off Battery backup system for SY46 series actuator, AC 120 V, MFT Battery backup system for SY45 series actuator, AC 24 V, on/off Battery backup system for SY45 series actuator, AC 24 V, MFT	EXT-NSV-B03-120 EXT-NSV-B04-120 EXT-NSV-B13-24 EXT-NSV-B14-24	
lectrical installatio	n			
		 XINSTALLATION NOTES Do not change sensitivity or dip switch setting with power applied. Power supply Common/Neutral and Control Signal "-"wiring to a common Terminals 4 and 6 need to be wired separately. Isolation relays must be used in parallel connection of multiple actuator control signal inputs. The relays should be DPDT. Isolation relays are required in parallel applications. The reason parallel isolation relays is that the motor uses two sets of windings, one for each energized to turn the actuator in a specific direction a voltage is generate the magnetic field created from the first. It's called back EMF. This is not actuator because the voltage generated in the second winding isn't community is connected to on the other actuators in the system, the actuation both directions at once. The EMF voltage is always less than the suppline resistance of the windings, so while the actuator still turns in the comma drag from the other reduces the torque output and causes overheating. Warning! Live electrical components! During installation, testing, servicing and troubleshooting of this product to work with live electrical components. Have a qualified licensed electrical components. 	s using a common applications need direction. When one i ted in the other due to an issue with one nected to anything so age energizes the ators are tying to turn y voltage due to the anded direction, the ct, it may be necessary	

Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.



SY5-110

Electrical installation

Wiring diagrams AC/DC 110/120 or 220/230V

