

INSTALLATION INSTRUCTIONS

FOR MOTORIZED 2-Way ISOLATION VALVE (KIT30152 and KIT30153)

FOR MODELS FTXL 400 - 850

⚠ WARNING

Electrical Shock Hazard-- For your safety, turn OFF electrical power supply before making any electrical connections to avoid possible electric shock hazard. Failure to do so can cause severe personal injury or death.

CAUTION

This valve is intended for indoor use only.

List of kit components

Kit Number	Model Number	Part Number	Component Description
KIT30152	FTX 400-600	VAL20142	2" Motorized Valve
		BLT2027	Bolt (8)
		LUG7022	Fork Terminal (4)
		TFL20038	Flange, 2" NPT (2)
		WRE7022	Black Wire
		INS70180	Instruction Sheet
KIT30153	FTX 725-850	VAL20143	2.5" Motorized Valve
		BLT2027	Bolt (8)
		LUG7022	Fork Terminal (4)
		TFL2092	Flange, 2.5" NPT (2)
		WRE7022	Black Wire
		INS70180	Instruction Sheet

Valve technical data

Power Supply: 120V
Amp Draw: .07A
Motor Rotation: > 75 seconds
Spring Rotation: > 20 seconds
Max. Close-Off Pressure: 200 PSI

Valve Body: Ductile Iron
Seal: EPDM
Stem: 416 S.S.
Disc: 304 S.S.

Figure 1 Valve Installation

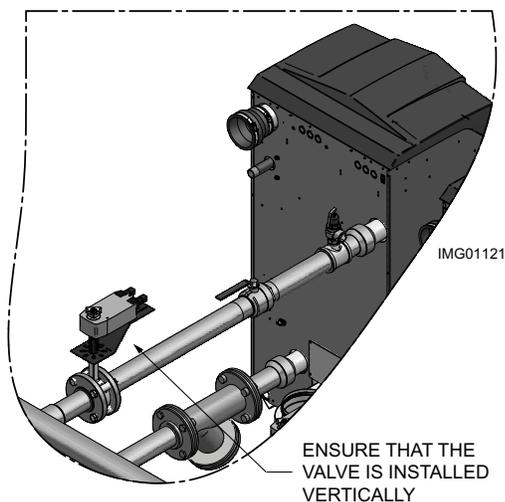
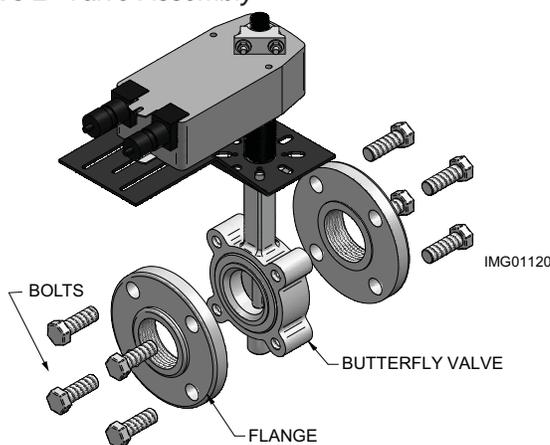


Figure 2 Valve Assembly



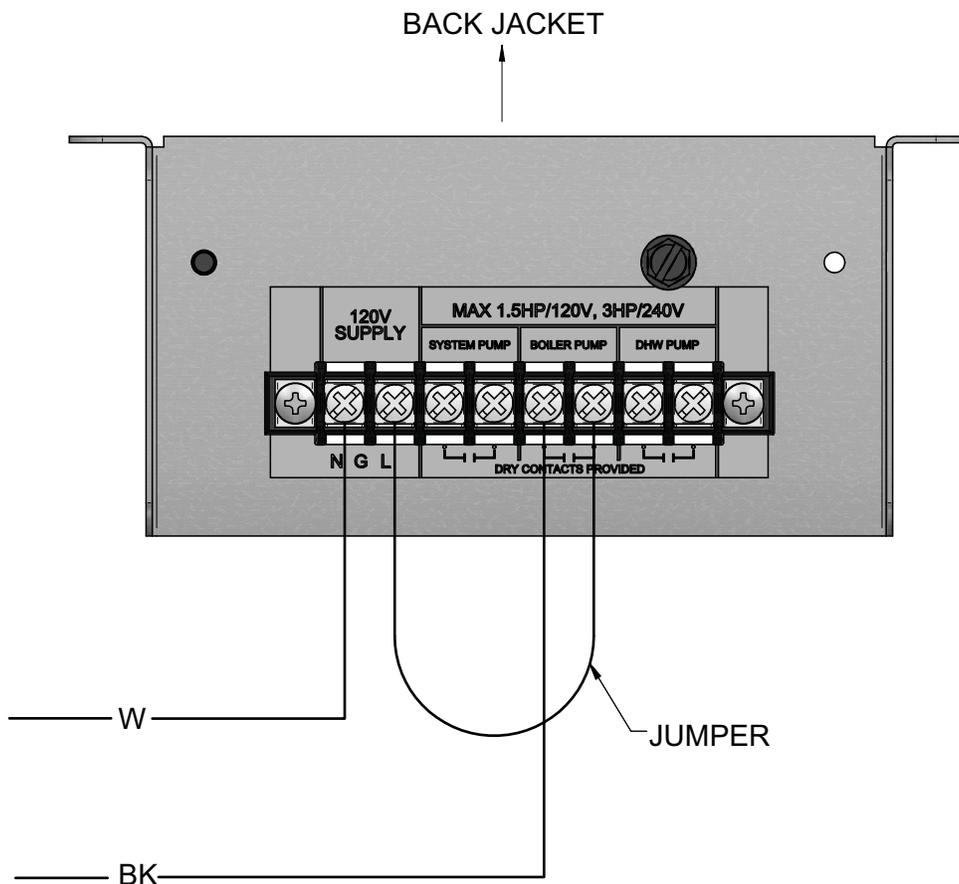
Installation instructions

1. Install one of the flange adapters onto the boiler outlet pipe and orient it so that the valve will be installed vertically (FIG. 1).
2. Install the 2-Way valve onto the flange adapter using the four (4) kit-provided bolts.
3. Install the remaining flange adapter to the outer side of the 2-Way valve using the remaining four (4) kit-provided bolts.
4. Proceed to the wiring instructions, this page.

Wiring instructions

1. Remove the screw holding the junction box cover to the junction box.
2. Using the kit-provided connectors (LUG7022), route the smaller length of kit-provided black wire (WRE7022) from the L Contact on the high voltage connection strip "120 V Supply" to the nearest Boiler Pump Contact.
3. Using a kit-provided connector (LUG7022) route the black wire connected to the 2-Way valve through one of the knockouts above the high voltage connection strip and connect it to the remaining Boiler Pump Contact.
4. Using the kit-provided connector (LUG7022) connect the white wire from the valve to the Neutral (N) Contact on the high voltage connection strip "120 V Supply".
5. Put the cover back on the junction box located on the back side of the FTXL.

Figure 3 Wiring Diagram



2-Way Motorized Valve Control

The Boiler Pump control parameters must be set to match the design and operation of the system.

- Boiler Pump Delay - can be used to keep the 2-Way motorized valve open for a fixed period of time after the call for heat ends for a specific boiler. A minimum of 60 seconds is recommended to allow time for heat to be dissipated from the boiler after completing a call for heat.
- Boiler Pump Anti-Seize Time - can be used to exercise (open) the 2-Way motorized valve for a fixed period of time if it has not operated for 24 hours.
- Number of Boiler Pumps Always On - used to force a fixed number of isolation valves to always be energized regardless of the number of boilers that are firing.
Note: The open 2-Way motorized valves will rotate with priority of the boilers.

Revision Notes: Revision A (ECO C16066) initial release.