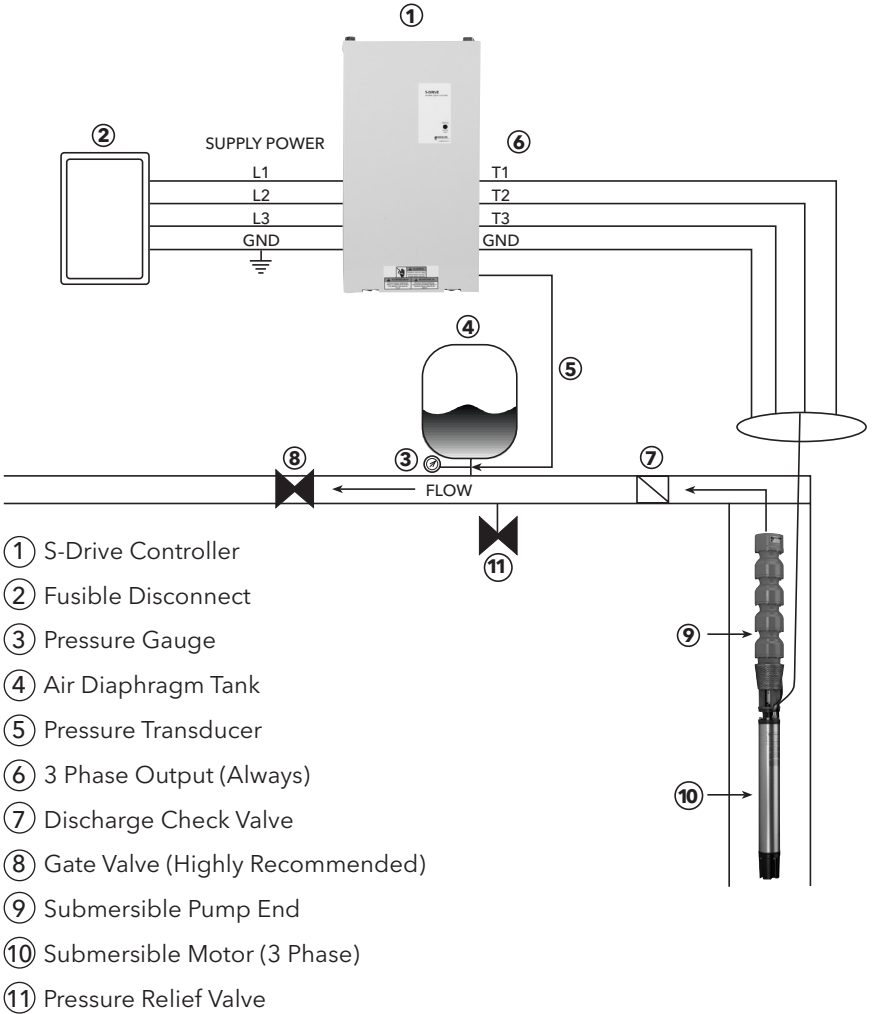


# SPD Submersibles

## Quick Start Up Guide

- Step 1:** Mount drive on secure wall or support beam using 4 screws. Ensure drive is well ventilated. Leave at least 8" of free space around the controller for cooling. Plug conduit holes not used.
- Step 2:** Measure site voltage phase-phase and phase-ground; verify incoming voltage is 1Ø or 3Ø 230V, or 3Ø 460V. make sure all phase-ground voltages are equal. Models SPD2XXXX(F) require 230V input voltage. Models SPD4XXXX(F) require 460V input voltage.
- Step 3:** Provide a dedicated fused disconnect (item #2 above) or circuit breaker rated for drives input amps. No other equipment should be used for this disconnect. Use fast acting class T fuses.
- Step 4:** Connect wire from input power supply to L1, L2, L3 and GND. NOTE: For single phase supply power, wire to L1 and L3 and adjust overload switches for 50% of drive current rating. Ensure you have a solid ground from the building or site. Ensure the ground is continuous between the service entrance and the controller. Ensure there is at least 8" between the input wires and any other wires.
- Step 5:** Ensure you have a three phase motor. Connect motor leads to T1/U, T2/V, T3/W and GND. Ensure the ground is continuous between the controller and the motor. For CentriPro motors, connecting T1/U to Red, T2/V to Black and T3/W to Yellow will give the correct rotation. To change rotation, swap any two motor leads T1/U, T2/V or T3/W. Ensure there is at least 8" between the output wires and any other wires.
- Step 6:** Plumb pressure transducer in straight piece of pipe downstream of last check valve in system. Do not install the pressure transducer or pressure tank where freezing can occur. If pressure transducer is placed in grounded metal piping, disconnect the drain wire in the pressure transducer cable from the controller chassis.
- Step 7:** Pre-charge bladder tank to 10-15 PSI below your system pressure. Tank capacity should be at least 20% volume of maximum pump GPM.
- Step 8:** Set the Motor Overload Setting Switches. Choose a setting that is equal to or less than the motor's SFA rating.
- Step 9:** Factory pressure setting is 50 PSI when used with a 300PSI transducer. Press and hold INC or DEC button to adjust pressure while pump is running. Ensure drive goes into stand-by mode (solid green light/pump off) to save pressure setting.
- NOTE:** Do not connect power to CONTROL TERMINALS. Connect only non-powered switch contacts to these terminals.

# SPD Typical Submersible Installation



**NOTE:** for single phase input, connect L1 and L3, then set motor overload switches to 50% of controller rating or lower.