



108 SERIES PUMP

INSTALLATION & START-UP PROCEDURE

1. Mount the unit securely in a vertical position with the motor up. (Unless the unit was ordered specifically as a horizontal mount.)
2. Wire the motor according to diagram.
3. Fill the reservoir with automatic transmission fluid or any clean hydraulic oil with a viscosity range of 150-300 SSU at 100° F. NOTE: Choose a hydraulic fluid having a viscosity index that is suitable for the climatic conditions in which the unit will be operated. Recommended operating temperature range is +20° F to +180° F. Consult the factory for special low temperature pumps.

GENERAL START-UP INSTRUCTIONS

NOTE: The ports are marked on the casting 'UP' and 'DN'. When facing the power unit with the motor up, plug the right-hand, or 'DN' port. Jog the motor until oil flows from the left-hand, or 'UP' port. If the oil does not flow from the 'UP' port, reverse the wire leads on the motor, and repeat. The pump is now primed. Connect the hose (or tubing) to the 'UP' port and tighten. Connect the other hose end to the blind end of a fully retracted hydraulic cylinder. With the hose fitting loose, operate the power unit until oil (and no air) bleeds from the fitting. Tighten the fitting. Refill the reservoir. To complete the system start-up, consult the following specific circuitry instructions appropriate for your power unit.

REVERSIBLE POWER UNITS

After following the general start-up instructions, run the power unit in the 'UP' port rotation (same direction as previously run). Continue until the cylinder rod is fully extended, adding only enough fluid to the reservoir to get the cylinder extended. (Adding too much oil at this point could cause the reservoir to overflow when the cylinder rod is retracted). Remove the plug from the 'DN' port and connect one end of the second hose to it, then tighten. Jog the power unit in the 'DN' port rotation (opposite direction of earlier), until oil (with no air) flows from the loose hose end. Connect and tighten the hose end onto the rod end cylinder fitting. Operate the power unit to fully retract the cylinder. Once retracted, check the oil level in the reservoir and add as needed to maintain full capacity.