

General Safety Information

1. Use a pressure relief device on the discharge side of the pump to prevent damage from pressure build-up when the pump discharge is blocked or otherwise closed and the power source is still running.
2. **WARNING: DO NOT PUMP FLAMMABLE OR EXPLOSIVE FLUIDS SUCH AS GASOLINE, FUEL OIL, KEROSENE, ETC. DO NOT USE IN EXPLOSIVE ATMOSPHERES. THE PUMP SHOULD BE USED ONLY WITH LIQUIDS COMPATIBLE WITH THE PUMP COMPONENT MATERIALS. FAILURE TO FOLLOW THIS WARNING CAN RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE AND WILL VOID THE PRODUCT WARRANTY.**
3. Do not run the pump faster than maximum recommended speed.
4. Do not pump at pressures higher than the maximum recommended pressure.
5. Do not pump liquids at temperatures higher than the recommended maximum temperatures.
6. Make certain that the power source conforms to the requirements of your equipment.
7. Provide adequate protection in guarding around the moving parts such as the shaft and pulleys.
8. Disconnect power before servicing.
9. Release all pressure within the system before servicing any component.
10. Drain all liquids from the system before servicing any component.
11. Check hose for weak or worn condition before each use. Make certain that all connections are tight and secure.
12. Periodically inspect the pump and the system components. Perform routine maintenance as required (see Maintenance section).
13. Do not operate a gasoline engine in an enclosed area. Be sure the area is well ventilated.
14. Use only pipe, hose and fittings rated for the maximum PSI rating of the pump.
15. Do not use these pumps for pumping water or other liquids for human or animal consumption.

Drive Source Installation

This manual will cover the installation of the basic drive configurations available for Hypro roller pumps. Consult the recommendations of the manufacturer of your motor

or engine for additional information. Read all safety information before attempting to install or operate the pump.

Tractor PTO Installation

Mount pump with PTO adapter, torque arm and chain on the tractor as shown (Fig. 1). The torque arm and chain should be tied to a stationary part of the tractor to prevent rotation of the pump when the shaft is turned. **Tie torque arm chain** to a point on the tractor lower than the pump and directly below arm. **DO NOT** tie torque arm to point either forward

or backward from the pump. This creates a "bending" force on the pump. **Before starting pump**, grasp torque arm as shown in Fig. 2 using it for leverage to rotate pump on PTO shaft. If pump can be turned easily, it is ready for use. **Do not** apply power to a pump that appears to be locked-up.

