

# General Pump Safety Information

## Engine Driven Pumps

- Do not overfill fuel tank.
- Never refuel a hot or running engine.
- Always disconnect spark plug before performing any maintenance to engine or pump.
- Never tamper with the governor setting on an engine to gain more power. The governor establishes safe operating limits.
- Do not jump-start engine battery.
- Do not shut down high-head pumps quickly:
  - Throttle back slowly
  - Open bypass line
  - Be sure system has a check valve
  - Slowly close gate valve on discharge, if one has been installed.

## Submersible Pumps

- Never attempt to raise pump by its electrical cord.
- Always use an approved control box, mounted in a vertical position.
- Always check rotation on 3 phase pumps.
- Shut down and lock out all related electrical circuits before performing any maintenance.
- Do not hold reset button if overload control tips off. Wait 10 minutes before resetting again.
- Never put pump directly on soft, loose bottom.
- Be sure to connect pump to correct phase and voltage.



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## Electric Motor Driven Pumps

- Electrocutation may occur whenever electricity is present.
- Allow only qualified personnel to install, wire and operate pumps and motors.
- Always ground electrical units.
- Be sure to connect motor to correct phase and voltage.
- Do not operate pump if voltage is not within limits.
- Make sure all electrical installations are in accordance with National Electrical code and local codes.
- Shut down and lock out all related electrical circuits before performing any maintenance.
- If circuit breaker or fuse is tripped, locate and fix the problem before restarting pump.

# Safety First, All the Time - Every Time

## General Pump Safety Information

- Overheated pumps can cause severe burns and injury.

If overheating of pump casing occurs:

- Stop pump immediately.
  - Allow pump to cool to air temperature.
  - Slowly and cautiously vent pump at drain plug.
- Do not remove the cover plate, fill port cap, gauge port plug or drain plug from any overheated pump. Allow pump to cool to air temperature. Check pump temperature before opening cover plate, fill port, gauge port plug or drain plug.
  - Do not operate pump without all guards and shields in place.
  - Do not operate a self-priming pump unless the pump casing is filled with liquid. If not, it may cause damage to the pump. The pump will not prime unless the pump casing is filled with liquid.
  - Cautiously approach any pump that has been in operation.
  - Pump only liquids for which the pump was designed.
  - Do not pump flammable or corrosive liquids.
  - Check all lubricants before operation.
  - Do not operate pump against a closed valve.
  - Check the suction strainer regularly to be sure that it is not clogged. Operating pump with suction and/or discharge closed or clogged is one cause of severe overheating.
  - Secure the pump so that it can not move after it is in its operating position.
  - Never operate pumps in explosive or volatile atmospheres.
  - Never wear loose clothing around machinery.
  - Before disconnecting hoses, feel pump casing to ensure that it is not hot. A hot casing signals the potential presence of steam in the hoses which may cause severe burns.
  - Be sure that only experienced personnel operate machinery.
  - Before working on pumps with electric motors and panels, LOCK control panel in the OFF position:
    - If control panel can not be locked, pull main fuse or circuit breaker.
    - Remove all V-belts.
    - Disengage drive coupling.
  - Drain pump completely of water before freezing weather.



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