

Multi Stage Pumps Do's and Don'ts

Pump Series: MS

DO:

- 1. Consult the engine & pump manufacturer's instructions <u>before</u> starting the unit
- 2. Follow all safety, health & environmental rules and procedures.
- 3. Make sure all guards and shields are in place and secured <u>before</u> starting engine.
- 4. Ensure that the pump is level, stable and secure <u>before</u> starting.
- 5. Keep suction lift to a minimum and support all hoses & piping as needed.
- 6. Avoid air traps in the suction & discharge lines and make sure that suction line is designed with a slight slope to the pump.
- 7. Tighten all suction connections properly use pipe compound or Teflon tape on all threads.
- 8. Use only good hose gaskets and good quality, reinforced suction hose.
- 9. Use a foot valve and keep it clean and free from obstructions.
- 10. Adjust packing as necessary.
- 11. Check fuel supply verify adequate fuel level & check for contamination.
- 12. Follow the maintenance schedule as specified in the manual.
- 13. Drain the pump and all hoses & piping during extended periods of non-usage or during freezing weather.
- 14. Allow the pump to cool prior to disconnecting any hoses or draining the pump.

DON'T:

- 1. Allow inexperienced personnel to operate equipment unless they are supervised.
- 2. Forget safety, health & environmental precautions.
- 3. Lift the pump with suction or discharge hoses attached.
- 4. Attempt suction lifts over twenty-five feet.
- 5. Allow the suction line to become clogged or mired in mud.
- 6. Operate the unit while a discharge valve is closed or the discharge line is obstructed.
- 7. Operate the pump at an excessive angle of inclination.
- 8. Run the engine faster or slower than the recommended operating speed range.
- 9. By-pass or disconnect any safety shutdown switches or gauges.
- 10. Over tighten packing.
- 11. Allow the engine to run out of fuel.
- 12. Neglect periodic service and maintenance.
- 13. Perform any service or repairs while the engine or the pump end is running or is hot.
- 14. Remove any hose, cover plate or plugs on an overheated pump.
- 15. Pump sand, abrasive liquids or solids.
- 16. Bypass or disconnect any safety shutdown switch or gauge.
- 17. Overfill the fuel tank.