



DIVISION OF THE GORMAN-RUPP COMPANY

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# 5600 SERIES

## CENTRIFUGAL PUMPS

## SERVICE DATA SHEET

A close-coupled pump with wetted phenolic parts and a carbon vs. 316 stainless steel face mechanical seal for pumping corrosive fluids. Face seal components are constructed from 302 stainless steel metal parts and Polyethylene and Buna N elastomers.

### TROUBLE SHOOTING GUIDE

The trouble shooting guide is a suggestion or aid in helping solve problems that might arise.

NOTE: NEVER WORK ON PUMP WITHOUT MAKING CERTAIN POWER IS OFF

#### UNIT WILL NOT PUMP:

1. No liquid in pump (requires flooded suction).  
Do not run dry.
2. Closed valves or blocked lines.
3. Air lock in suction or discharge lines.
4. Leaking shaft seal.

#### LOW FLOW:

1. Air leak in suction line.
2. Closed valves or blocked lines.
3. Dirty filter systems.
4. Low voltage.
5. Leaking shaft seal.

#### MOTOR DOES NOT TURN:

1. No power to motor. Check that all power switches are on. Be sure fuse or circuit breaker is properly set. Timers or controls properly set. Check motor wiring at terminals or plug.

#### MOTOR RUNS HOT:

These motors will run "hot" to the touch. However, this is normal. Thermal overload protector will function to turn them off if there is an overload or high temperature problem. Excessive heat can be caused by:

1. Low voltage or incorrect voltage.
2. Installed in direct sun.
3. Poor ventilation.

#### MOTOR THERMAL PROTECTOR OPENS ELECTRIC CIRCUIT:

1. Motor is improperly connected.
2. Low voltage due to under-sized wire or low incoming voltage.
3. Incorrect voltage.
4. Overload due to binding in pump or bad motor bearings.

#### NOISY OPERATION OF MOTOR:

1. Worn bearings.
2. Damaged cooling fan.

#### NOISY OPERATION OF PUMP:

1. Air leak in suction line. Bubbles in liquid returning to pump inlet.
2. Restricted suction line due to blockage or under-size pipe.
3. Cavitation. (See 1. & 2. above).
4. Foreign matter in pump impeller.

#### LEAKS:

1. Loose hose clamps.
2. Leaking gasket. (Tighten screws to approx. 6-10 in.-lbs.).
3. Damaged or broken pump parts.
4. Leaking shaft seal.

#### WARRANTY

Gorman-Rupp Industries warrants that its pumps are free from defects in materials, workmanship and title. Warranty expires one year from date of shipment. NO WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR USE OR PURPOSE IS IMPLIED AND IS HEREBY EXPRESSLY EXCLUDED.

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