

3E-12NRY Submersible or In-Line Pump

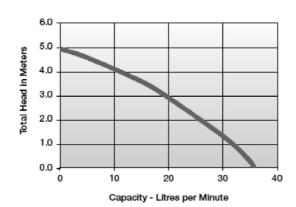
Submersed or in-line use, water transfer or recirculation, water displays, air conditioning and machine tool coolants

- 1/15 HP oil-filled, heavy-duty motor
- Epoxy-coated cast aluminum
- · housing and cover
- Nylon volute
- · Aluminum backplate
- Viton® shaft seal
- Polypropylene screen
- IP 68

Capacity:	38 LPM @ 0.31m
Shut Off:	6.4m
Discharge:	13mm
Intake:	13mm threaded
Electrical:	230V, 50/60Hz, 1.7A, 200 Watts
MODEL:	503216



Performance Curves 3E-12N







3E and 4E Series

Introduction

This instruction sheet provides you with the information required to safely own and operate your Little Giant pump. Retain these instructions for future reference.

The Little Giant pump you have purchased is of the highest quality workmanship and material, and has been engineered to give you long and reliable service. Little Giant pumpss are carefully tested, inspected, and packaged to ensure safe delivery and operation. Please examine your pump carefully to ensure that no damage occurred during shipment. If damage has occurred, please contact the place of purchase. They will assist you in replacement or repair, if required.

READTHESEINSTRUCTIONSCAREFULLYBEFOREATTEMPTING TO INSTALL, OPERATE, OR SERVICE YOUR LITTLE GIANT PUMP. KNOW THE PUMP'S APPLICATION, LIMITATIONS, AND POTENTIAL HAZARDS. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH THESE INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE!

SAFETY GUIDELINES

Ensure the unit is disconnected from the power source before attempting to service or remove any component. Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in explosive atmospheres. Pump should only be used with liquids compatible with pump component materials.

Do not handle pump with wet hands or when standing on a wet or damp surface or in water.

This pump is supplied with a grounding conductor and/or grounding type attachment plug. To reduce the risk of electric shock. be certain that it is connected to a properly grounded grounding type receptacle.

In any installation where property damage and/or personal injury might result from an inoperative or leaking pump due to power outages, discharge line blockage, or any other reason, a backup system(s) and/or alarm should be used. Support pump and piping when assembling and when installed. Failure to do so may cause piping to break, pump to fall, motor bearing failures, etc.

If pump is an oil-filled pump, the motor housing is filled with a dielectric lubricant at the factory for optimum motor heat transfer and lifetime lubrication of the bearings. Use of any other lubricant could cause damage and void the warranty. This lubricant is non-toxic; however, if it escapes the motor housing, it should be removed from the surface quickly by placing newspapers or other absorbent material on the water surface to soak it up, so aquatic life is undisturbed.

ELECTRICAL CONNECTIONS

- 1. Check the pump label for proper voltage required. Do not connect to voltage other than that shown.
- If pump is supplied with a 3-prong electrical plug, the third prong is to ground the pump to prevent possible
 electrical shock hazard. DO NOT REMOVE the third prong from the plug. A separate branch circuit is
 recommended. Do not use an extension cord. Do not cut plug from the cord. If the plug is cut or the cord is
 shortened, then this action will void the warranty.
- If the cord is equipped with stripped lead wires, such as on 230V models, be sure that the lead wires are connected to a power source correctly. The (green/yellow) wire is the ground. The (blue or white) and the (brown or black) are live.

CONSULT INSTRUCTION SHEET ILLUSTRATIONS FOR PROPER ASSEMBLY AND DISASSEMBLY OF YOUR LITTLE GIANT PUMP.

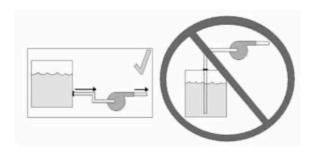
OPERATION

- 1. The #4E must be run submerged. The #3E may be used submerged or in-line.
 - a. IMPORTANT: When used in-line, the #3E must be installed so that the pump head (volute) is flooded before starting. That is, the inlet of the pump must be below the level of the surface of the liquid being pumped. (See Figure 1.)
- 2. The pump should be placed in an up-right position
- 3. The weight of the pump must be supported adequately. DO NOT support the pump by the intake or discharge connections alone, or by the holes in the top cover. These holes are only intended to connect stabilizing brackets to pump, which will help prevent pump from tipping. The holes are cored for #8-18 self-tapping screws. Hole depth is .31". DO NOT exceed the hole depth.



- 4. Do not attempt to restrict the intake side of these pumps. Restricting the intake may cause damage to the seal and may starve the pump. If you require reduced flow rates, then place a valve on the discharge side of the pump or if flexible vinyl tubing is used, a clamp can be used on the tubing to restrict the flow.
- 5. Do not let the unit operate dry. It is designed to be cooled by pumping fluid. You may damage the seal and the motor may fail if the pump is allowed to run dry.
- If the unit is going to be idle for a period of time, follow the cleaning instructions outlined in the next section. Do
 If fused type plug is used on 230 volt units, a 5.0 amp fuse is recommended.
- 7. If using an aluminium body pump in an area with water having a high mineral content (hard water) or if other metals (copper tubing, metal fountain heads, etc.) are present in the pond or fountain, a condition called "galvanic corrosion" may occur. The recommended solution to this situation is the use of a sacrificial anode attached to the pump. This anode works on the same principle as the anode found in hot water heaters and boat motors. Contact your local distributor and ask for the model SA-1 by Little Giant.

Figure 1



SERVICE INSTRUCTIONS

MAKE CERTAIN THAT THE UNIT IS DISCONNECTED FROM THE POWER SOURCE BEFORE ATTEMPTING TO SERVICE OR REMOVE ANY COMPONENT!

- This unit is permanently lubricated. Oiling is not required. Do not, in any case, open the sealed portion of the unit
 or remove housing screws. The power cord on these units cannot be replaced. In case of damage the whole unit
 must be replaced.
- Periodic cleaning of the pump parts will prolong the LIFE and EFFICIENCY of the pump. Refer to Fig. 1 for the assembly and disassembly of the pumping head.
- First remove the intake screen from the pump. Then remove the three screws as indicated by the arrows. (DO NOT remove other screws which may be exposed.)
- Lightly clean any corrosion or debris which may clog the impeller. Use a brush and penetrating oil and lightly scrape to remove encrusted material.
- 5. Turn the impeller by hand to make sure it turns freely. Set pump down so the pump and impeller are not touching anything. Plug the unit into GFCI circuit for 10 seconds to see if the impeller turns; a) If it is rotating and GFCI did not trip, unplug unit and install parts in reverse order in which they were removed. b) If it does not rotate, if pump is tripping circuit breakers, or not operating properly after cleaning, return to Little Giant Pump Company or its authorized service center. DO NOT attempt repairs yourself.
- 6. Be certain power cord is in good condition and contains no nicks or cuts.