

## NK-1 AND NK-2 Submersible Pump

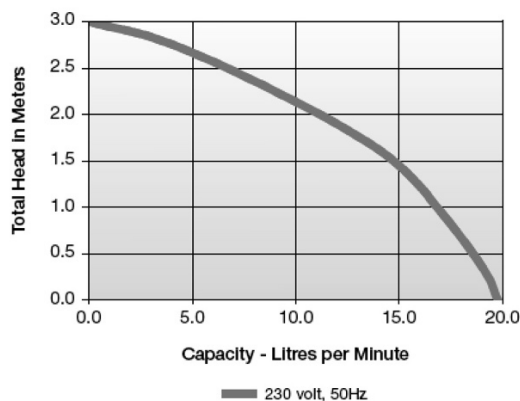
For commercial, industrial and home application including statuary fountains, water displays, air conditioners, machine tool coolants and many other application where liquid must be transferred or recirculated.

- 1/150 HP oil-filled motor
- 1/40 HP Oil-filled motor
- submersible use only
- Nylon housing, cover and volute
- Viton® shaft seal
- Polyethylene screen
- IP 68
- NK-1 Measurements H:116mm W:105mm L:105mm
- NK-2 Measurements H:116mm W:105mm L:105mm

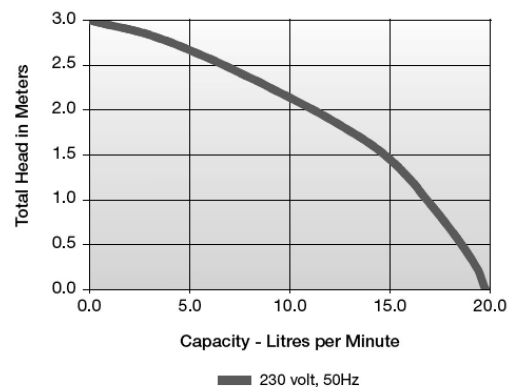


NK-1	
<b>Capacity:</b>	15 LPM @ 0.31m
<b>Shut Off:</b>	2.25m
<b>Discharge:</b>	12.5 mm O.D. Threaded
<b>Intake:</b>	Smooth
<b>Electrical:</b>	230V, 50Hz, 0.7A, 70 Watts
<b>MODEL:</b>	<b>526076</b>
NK-2	
<b>Capacity:</b>	20 LPM @ 0.31m
<b>Shut Off:</b>	2.85m
<b>Discharge:</b>	12.5 mm O.D. Threaded
<b>Intake:</b>	Smooth
<b>Electrical:</b>	230V, 50Hz, 0.9A, 100 Watts
<b>MODEL:</b>	<b>527076</b>

Performance Curves NK-1



Performance Curves NK-2





## NK-1 and NK-2

### Introduction

Enclosed with your Little Giant pump is an instruction sheet which provides you with information required to safely own and operate your Little Giant pump. The instruction sheet primarily covers the standard models of each pump series. The form is applicable to other models in the series not listed by catalogue number in the replacement parts list section of the instruction sheet. If the catalogue number of your pump is not listed in the replacement parts list section, then caution should be exercised when ordering replacement parts. Always give the catalogue number of your pump when ordering replacement parts.

The Little Giant unit you have purchased is of the highest quality workmanship and material. It has been engineered to give you long and trouble-free service. The Little Giant pumps are carefully packaged, inspected and tested to insure safe operation and delivery. When you receive your pump, examine it carefully to determine that there are no broken or damaged parts that may have occurred during shipment. If damage has occurred, make notation and notify the firm that you purchased the pump from. They will assist you in replacement or repair, if required.

**READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE OR SERVICE THE LITTLE GIANT PUMP. KNOW THE PUMP APPLICATION, LIMITATIONS, AND POTENTIAL HAZARDS. PROTECT YOURSELF AND OTHERS BY OBSERVING ALL SAFETY INFORMATION. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE! RETAIN INSTRUCTIONS FOR FUTURE REFERENCE.**

### SAFETY GUIDELINES

1. Make certain that the unit is disconnected from the power source before attempting to service or remove any component.
2. 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.
3. Do not handle pump with wet hands or when standing on a wet or damp surface or in water.
4. 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.
5. 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.
6. 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.
7. 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.
2. 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.
3. 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

The NK series pumps must be used in submerged type applications. The pump is to be placed with the screen as the base or on the two support legs opposite power cord entry. If the surface is sandy or muddy, provide a smooth surface for the pump when placed with the intake down.

The NO-Korode (NK) pumps are designed to be used in mild acids, alkalies and hard water applications. Before you use the pump in any of these applications, please check the Little Giant CRC chart (form # 995516) for compatibility of fluids that come in contact with pump parts. The pump materials consist of: glass-filled nylon housing, nylon volute, plate, impeller and elbow, stainless steel motor shaft and fasteners, nitrile square cut seal (between volute and plate), Viton shaft seal and polyethylene screen. The cord jacket is PVC material. Other plastic parts are nylon.

Do not restrict the intake side of the pump. Restricting intake may cause damage to the shaft seal. If less flow is required, restrict the discharge side of the pump. For example, if plastic tubing is used, place a clamp on the tubing to restrict the flow by squeezing the tubing.

Do not let the unit operate dry. It is designed to be cooled by the 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 that follow before you store the unit. Do not allow the unit to freeze in wintertime. Freezing may cause cracking or distortion of the plastic parts which will destroy the pump.

## SERVICE INSTRUCTIONS

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

1. 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.
2. Periodic cleaning of the pump parts will prolong the LIFE and EFFICIENCY of the pump. Refer to Figure 1 for the assembly and disassembly of the pumping head.
3. First remove the screen from the pump. Then remove the 3 screws as indicated by the arrows. (Do NOT remove other screws which may be exposed).
4. 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 you are not touching pump and impeller is 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 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.