TPO 1118 (SGW550-1)

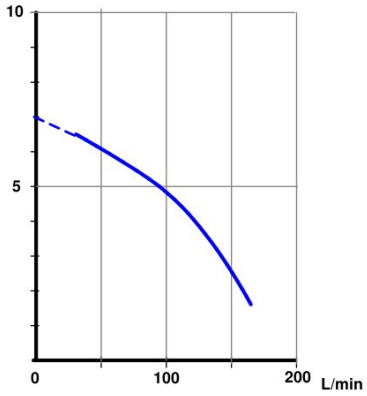
GORILLA PUMP STATIONS

Submersible twin-impeller pump for clean and dirty stormwater.

Features

- Heavy-duty body with grab handle
- Designed for immersion in stormwater
- Automatic operation via float switch
- One year warranty

Specifications



Motor: 550W

Power Phase: Single Phase

Maximum Particle Size: 32mm soft solids (NO sand, stones or gravel)

Weight: 4.8kg (Gross)

Outlet Size: 40mm

Power Cable Length: 10m

Technical Data (at 40mm Outlet)

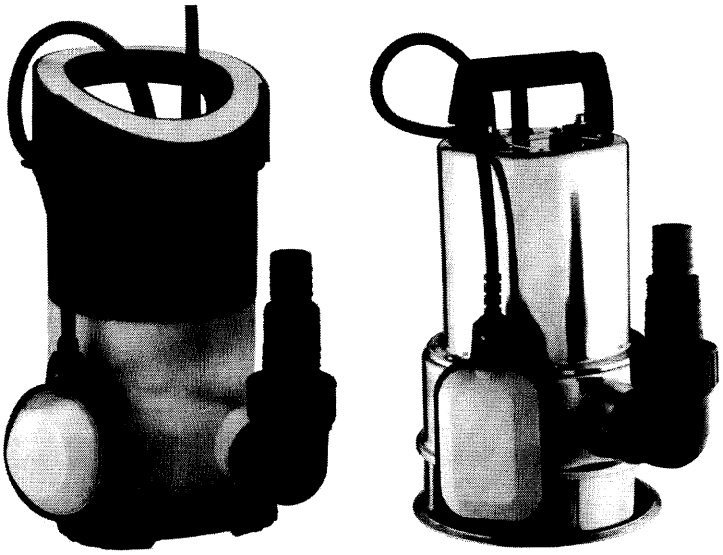
20L/m	@	4.6m
50L/m	@	4m
75L/m	@	3m
100L/m	@	2m
125L/m	@	0m

For the full pump range, warranty details and pump stations visit our website

www.gorillapumpstations.co.nz **021 745 335**

Instruction manual for

Submersible Pumps



Instruction Booklet: Please read these instructions carefully and retain for future reference.

Safety Precautions for your pump

1. Know the pump application, limitations, and potential hazards.
Do not use in explosive atmospheres.
Pump water only with this pump. Failure to follow this warning can result in personal injury and/or property damage.
2. Make certain power source conforms to requirements of your equipment.
3. Disconnect power before servicing.
4. Release all pressure within system before servicing any component.
5. Drain all water from system before servicing.
6. Secure discharge line before starting pump. An unsecured discharge line will whip, possibly causing personal injury and/or property damage.
7. Check hoses for weak or worn condition before each use, making certain all connections are secure.
8. Periodically inspect pump and system components. Keep pump and system free of debris and foreign objects. Perform routine maintenance as required.
9. Provide means of pressure relief on pumps whose discharge line can be shut-off or obstructed.

Personal Safety

a. Wear safety glasses at all times when working with pumps.
b. Keep work area clean, uncluttered and properly lighted – replace all unused tools and equipment.
c. Keep visitors at a safe distance from the work area.
d. Make workshop child-proof – with padlocks, master switches, and by removing starter keys.
When wiring an electrically driven pump, follow all electrical and safety codes.
Pump motor is equipped with an automatic resetting thermal protector and may restart unexpectedly.
Risk of electric shock. This equipment is only for use on 230 volts.
To reduce risk of electric shock, be certain that it is connected to any shock-proof plug that has been installed according to regulations.
All wiring should be performed by a qualified electrician.
Protect electrical cord from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking cord. Replace or repair damaged or worn cords immediately.
Use wire of adequate size to minimize voltage drop at motor.
Do not touch an operating motor. Modern motors can operate at high temperatures.

Additional Precautions

Please have the following items checked by an expert

- Ground connection
- Zero conductor
- Fault current breaker switch must correspond to the safety regulations of the power plants and they must work faultlessly.
- The electrical connections must be protected from moisture.
- If there is danger of flooding, the electrical connections must be taken to higher ground.
- Circulation of aggressive fluids, as well as the circulation of abrasive materials must be avoided at all costs.
- The submersible motor-driven pump must be protected from frost.
- The pump must be protected from running dry.
- The electrical installation shall be according to national wiring rules.
Pollution of the liquid could occur due to leakage of lubricants.
- The pump is to be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 30mA.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Access on the part of children. should also be prevented, with appropriate measures.
- Read carefully and save all the instructions provided with any appliance.
- Always turn the power off at the power outlet before you insert or remove a plug. Remove by grasping the plug - do not pull on the cord.
- Turn the power off and remove the plug when the appliance is not in use and before cleaning.
- Do not use your appliance with an extension cord unless this cord has been checked and tested by a qualified technician or service person.
- Always use your appliance from a power outlet of the voltage (A.C. only) marked on the appliance.
- Never leave an appliance unattended while in use.
- Do not use an appliance for any purpose other than its intended use.

• Do not place an appliance on or near a hot gas flame, electric element or on a heated oven. Do not place on top of any other appliance.
• Do not let the power cord of an appliance hang over the edge of a table or bench top or touch any hot surface.
• Do not operate any electrical appliance with a damaged cord or after the appliance has been damaged in any manner. If damage is suspected, return the appliance to the nearest service centre for repair.
• Use only as described in this manual. Use only manufacturer's recommended accessories.

Consistency
• Your submersible pump is designated for the circulation of water with a maximum temperature of 35C.

•This pump may not be used for other fluids, especially motor fuels, cleaning fluids, and other chemical products!

Installation
The submersible motor pump is installed as follows:

• In a stationary position with fixed pipeline.

• in a stationary position with a flexible hose pipe.

Please note!
•You should never install the pump by suspending it unsupported from its delivery pipe or power cable.

•The submersible motor pump must be suspended from the specially provided handle or be placed on the bottom of the shaft.

•To guarantee that the pump works properly, the bottom of the shaft must be kept free of sludge and dirt of all kinds.

•If the level of water sinks too far, any sludge in the shaft will dry out quickly and stop the pump from starting up. It is necessary, therefore, to check the submersible motor pump regularly (by carrying out start-up tests).

•The floater is adjusted in a way that the pump can immediately be started

Note!
The pump shaft should have minimum dimensions of 40 x 40 x 50 cm, so that the floating switch can move freely.

Mains supply
Your new submersible pump is equipped with a shock-proof plug according to regulations. The pump is designed to be connected to a 230V~50 Hz safety socket. Make sure that is in excellent condition. Introduce the plug into the socket and the pump is ready to go.

If the supply cord is damaged, it must be replaced by the manufacture, its service agent or similarly qualified person in order to avoid a hazard.

Areas of use
This pump is used primarily as cellar pump. When installed in a shaft, this pump provides protection from flooding.

They are also used wherever water has to be moved from one place to another, e.g. in the home, agriculture, horticulture, plumbing and many other applications.

Setting to work
After having read these instructions carefully, you can set your pump to work, reconsidering the following items:

• Check if the pump rests on the ground of the shaft.

• Check of pressure cord has been attached properly .

• Check if electrical connection is 230V~50 Hz.

• Check if socket is in good condition.

• Make sure that water and humidity can never come to the mains supply.

• Avoid pump running dry.

Maintenance
This submersible pump is an approved and maintenance-free high quality product, which is subject to severe final controls. We recommend, regular inspection and maintenance to ensure long equipment life and uninterrupted operation.

Important Note!

• Remove the mains plug before all maintenance work.

• In the event that the pump is often transported in the course of operation, it should be cleaned out with clear water after every use.

• In case of stationary installation, the function of the floating switch should be checked every 3 months.

• All fibrous particles which may have built-up inside the pump housing should be removed with a water jet.

• Every 3 months the shaft ground and impeller should be cleaned from mud.

• Remove deposits on the floater with clear water.

Cleaning the impeller

If excessive deposits collected in the pump case you must dismantle the bottom part of the pump as follows:

1. Remove the intake cage from the pump case.
2. Clean the impeller with clear water.

Important! Do not put down or rest the pump on the impeller!

3. Assemble in reverse order.

Setting the ON/OFF operating point

The ON and OFF operating point of the float switch can be set by adjusting the float switch in its latching holder.

Before you put the pump into Operation, please check the following:

• The float switch must be installed so that the level of the ON operating point and the level of the OFF operating point can be reached easily and with little force. To check this, place the pump in a vessel filled with water, raise the float switch carefully by hand and then lower it again. As you do so, note whether the pump switches on and off.

• Make sure that the distance between the float switch head and the latching holder is not too small. Proper operation is not guaranteed if the gap is too small.

• **Caution!** Risk of dry-running. When you set the float switch, make sure that it does not touch the base before the pump switches off.

Cleaning and Maintenance

CAUTION: Prior to cleaning or maintenance unplug cord from the power outlet. Do not immerse the unit in water.

Use a soft and slightly moist cloth to clean the device. Assure that no moisture penetrates into the device Never use chemical products, petrol, abrasive detergents etc.

Incidents-Cause-Remedies

Incidents	Causes	Remedies
Pump does not start	-No mains supply -Floater does not switch	-Check mains supply -Bring floater in a higher position
No flow	-Inlet sieve is clogged -Pressure hose in bent	-Clean inlet sieve water jet -Reset hose
Pump does not switch off	-Floater can not sink down	-Place pump properly on shaft ground
Insufficient flow	-Inlet sieve is clogged -Reduced pumping capacity by dirty and abrasive water	-Clean inlet sieve -Clean pump and replace worn-out parts
Pump switches of after short operating period	-Thermal cutout stops pumps due to dirty water -Water too hot. Thermal-cutout stops pump	-Remove mains plug. Clean pump and shaft -Make sure that a water temperature of max. 35℃ is not exceed

Technical Description

Article No.	TPO1376	TPO1118
Power	350 Watt	550 Watt
V/Hz	240V/50Hz	240V/50Hz
Max. pumping rate	6000 l/h	10500 l/h
Max. delivery height	7m	7m
Max. depth	7m	7m
Max grain size	5mm	35mm
Dia. of pipe	1" 1-1/4" 1-1/2"	1" 1-1/4" 1-1/2"
Cable Length	10m	10m