

PROTEGE PUMPS®



1" 5-Stage Water Pump

User Manual

[Revision 3.0 May 2018]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

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Safety

Improper Use of Fittings Hazard

- Do not operate the pump with improperly connected, sized, worn or loose fittings, pipes or hoses. Operating the pump under these conditions could result in personal injury and property damage.
- Ensure all fittings, pipes and hoses are properly rated for the maximum pressure rating and flow of the pump.
- Check all fittings and pipes for cracks or damaged threads.
- Check all hoses for cuts, wear, leaks, kinks or collapse before each use.
- Ensure all connections are tight and secure.
- Use PTFE thread tape or pipe thread sealant (sparingly) to reconnect plumbing.
- Do not wrap tape beyond the last thread, this will prevent tape from becoming lodged in the pump or accessories.
- Apply proper sealants to assure secure fit or easy dis-assembly when servicing.

Frozen Liquid Hazard

- Do not operate the pump with frozen liquid. Operating the pump under this condition could over pressurize and jettison the manifold from the crankcase causing personal injury and property damage.
- Store pump or pumping system in an environmentally controlled room protected from freezing temperatures.

Cleaning Pump Hazard

- Do not use solvents that are flammable and toxic to clean or degrease equipment. Use of these solvents could result in personal injury and property damage.
- Follow safety instructions as found in MSDS or on packaging of each liquid.
- Clean equipment in a well ventilated area.
- Disposal of solvents to be in accordance with local, state and federal regulations.

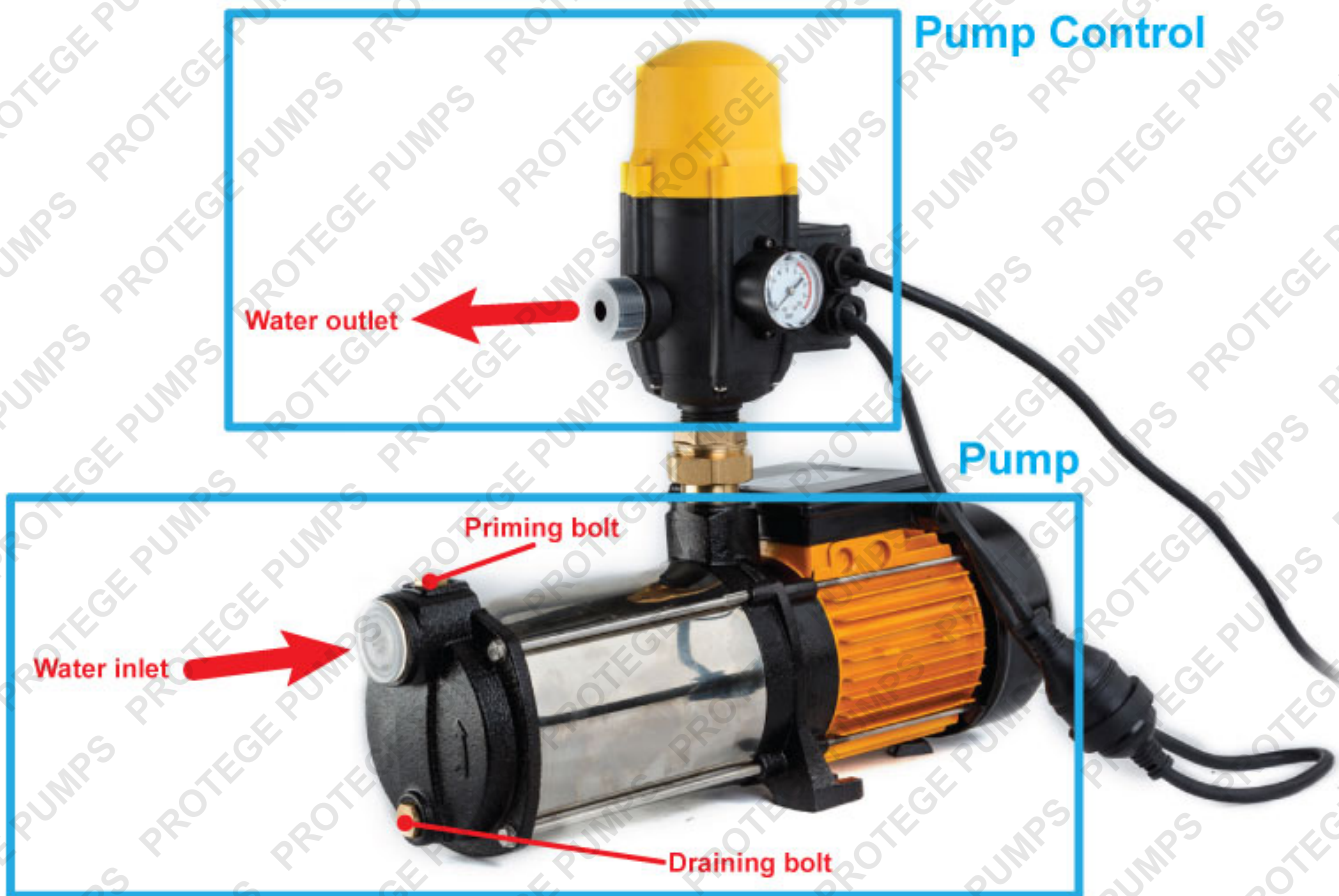
Operating Beyond Specifications Hazard

- Do not operate the pump outside the specifications of individual pump data sheet or service manual. Operating the pump under these conditions could result in personal injury and property damage.
- Do not operate the pump faster than the maximum recommended RPM.
- Do not operate the pump at pressures higher than the maximum recommended pressure.
- Do not operate the pump at temperatures higher than the maximum recommended temperatures.
- Do not use accessories that are not compatible or rated for the pump.

Height Hazard

- Do not store or fit this pump at a height higher than 90cm from level (hip height). Always ensure that the footing of the pump is properly secured. Pump may fall and cause injury if not secured properly from a high height.
- Use 6mm bolts and at least 12mm washers when mounting the base.
- Long holes at feet are for minor adjustments.
- Do not use corroded bolts. If bolts are degrading, replace them.

Item Details



Set-Up

Attach the Pump Control to the Pump

Separate brass coupling. Apply Teflon tape onto threads and screw onto pump control and pump separately. Then, using the bigger nut, screw together (in direction of arrow) the pump and pump control, keeping them stationary.



Operation

Conditions

- These pumps must be installed in a dry, well-ventilated place with an ambient temperature of no more than 40°C.
- Fix the pump in place on a solid, flat surface using suitable bolts to avoid vibration.
- The pump must be installed in a horizontal position to ensure that the bearings operate correctly.
- The diameter of the intake pipe must not be smaller than that of the intake mouth.
- If the intake height exceed 4 meters, use a pipe with a larger diameter.
- The diameter of the delivery pipe must be chosen to suit the flow rate and pressure required at the take-off points.
- The intake pipe must be slightly angled up towards the intake mouth to avoid the formation of air locks.
- Make sure that the intake pipe is completely airtight and immersed in the water by at least half a meter to avoid the formation of vortexes.
- Always fit a foot valve at the end of the intake pipe.
- It is advisable to fit a non-return valve between the delivery mouth and flow rate adjustment gate valve to avoid dangerous water hammering in the event of the pump suddenly stopping. This measure is compulsory if the delivery water column is over 20 meters.
- The pipe must always be fitted using the related brackets to avoid transmitting stress to the pump body.
- Take care not to damage any part by overtightening the pipes when fitting them.

Cut-In Pressure Adjustment

Locate the flat head dial at the top of the pressure switch. Adjust the dial with a flat head screwdriver to the right (+) to increase the cut-in pressure and to the left (-) to decrease the cut-in pressure.



Self-Priming

Self-priming **does not** mean the pump will automatically draw water from a water source. Whenever a non-self-priming pumps stop running the water drains. This means that when the pumps needs to be run again, it needs priming.

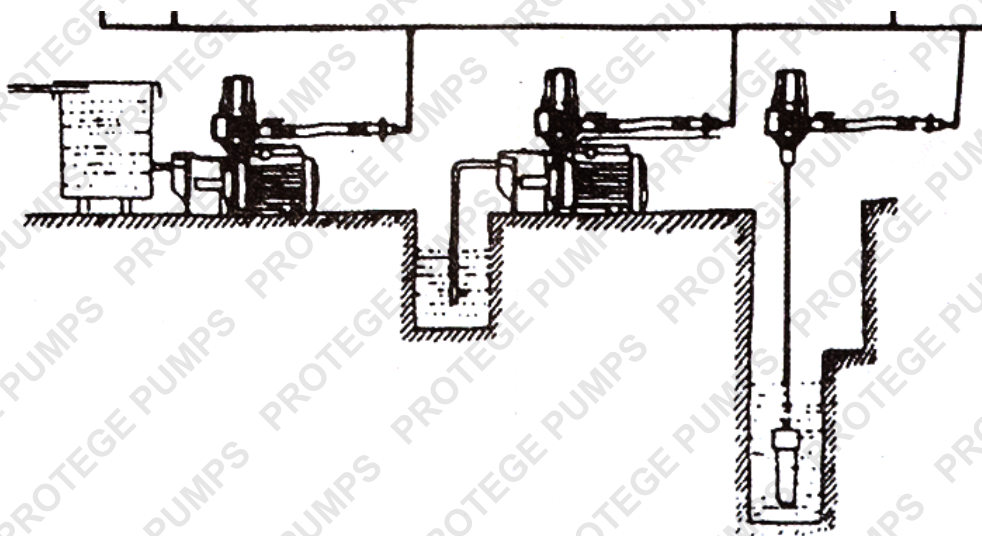
Self-priming pumps will need an initial prime, however once it stops running, it retains the water. When it needs running again it does not need priming again because the water has not drained. This is what makes the pump self-priming.

To initially prime this pump, remove priming bolt and fill with clean water. Once completely filled, screw priming bolt back on.

If the pump has not been used for a long period of time or air has made its way into the system, there is a possibility it will need priming again. Always check your plumbing and installing as it may appear the pump is faulty when it could be something else.

Set-Up Solutions

This pump has a maximum suction lift of roughly 4m. Do not install this pump any higher than 4m above the water source.



Maintenance

- Our pumps do not require any maintenance provided one takes the following precautions:
- When there is a risk of freezing, empty the pump through the drain plug on the bottom of the pump body, making sure you prime it when subsequently starting it again.
- Check that the foot valve is clean at regular intervals.
- If the pump is to remain unused for a long period of time (e.g. in the winter), it is advisable to empty it completely, rinse it with clean water and store it in a dry place.
- If the shaft does not turn freely, release it with a screwdriver by inserting it in the special slot. If this is not sufficient to solve the problem, remove the pump body, undoing the relevant mounting bolts, and clean it thoroughly to remove any encrustations.

ATTENTION: If the supply cord is damaged, it must be replaced by the manufacturer or a similarly qualified technician in order to avoid a potential safety hazard.

Never carry out any work on the pump without having first disconnected it from the mains supply.

Specifications

Maximum Pump Rate	9,000 litres/hour (150 litres/min)
Head Size	64m Head
Inlet/Outlet Size	25mm (inlet), 30 mm (outlet)
Rated Input Power	2,500W / 3.5hp
Voltage	240V / 50Hz
Protection Class	IP44/IP54
Duty Cycle	Continuous
Plug	10amp
Pump Body	Stainless steel
Shaft	Stainless Steel
Motor housing	Aluminium
Mechanical Seal	Ceramic/ Carbon
Weight	20.5kg

Not suitable for drinking water



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

