

Clarke® *PUMP*



SUBMERSIBLE WATER PUMP

MODEL No: IVP14A

Part No: 7230095

OPERATION & MAINTENANCE INSTRUCTIONS



INTRODUCTION

Thank you for purchasing this CLARKE water pump.

This highly efficient centrifugal pump is designed for pumping clean water, or water containing sand or solids in suspension, that is with a maximum of 5% solid content, and a maximum 12mm in diameter.

Before using the pump, please read this instruction manual thoroughly and carefully follow all directions given. This is for your own safety and for that of others around you, and will also help you achieve long and trouble free service from your pump.

GUARANTEE

- This product is guaranteed against faulty manufacture for a period of 12 months. Please keep your receipt as proof of purchase.
- This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.
- Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.
- This guarantee does not effect your statutory rights.

SPECIFICATIONS

Motor	230V 50Hz 1ph
Motor Rating (Nominal)	1.29kW
Outlet Connection	2" BSP Male
Head Max.	15.3M
Max. Submersion Depth	10M
Max. Capacity	390 l/min
Max. Water Temperature	40°C
Gross Weight	15.5kg
Cable Length	10M
Part Number	7230095

PUMP FEATURES

The pump is of rugged and durable construction, designed for long lasting continuous operation and its' stainless steel body provides good anticorrosive properties. The motor is provided with built in overload protection.

IDEALLY SUITED FOR

- Draining ponds, pools, cellars, drains, building excavations , etc., where water temperature does not exceed 40°C.
- Pool, Fish pond circulation
- Rain Water drainage
- Waterfall fountain
- Gardening spraying
- Sump pit
- Waste water drainage
- Emergency uses such as drawing water from tanks or rivers, excavations, flooded underpasses etc.

NOTE: Whenever the pump is used to pump contaminated water, e.g. to drain fish ponds, you must ALWAYS immerse the pump in clean water and run it for a few minutes afterwards to ensure all contaminants are removed.

NOT SUITABLE FOR

- Pumping salt water, aggressive or chemical substances.
- It **MUST NOT** be used for pumping hydrocarbons (petrol, diesel fuel, oils, solvents etc).
- Pumping slurry, sludge, mud or heavily polluted water.

ENVIROMENTAL RECYCLING POLICY

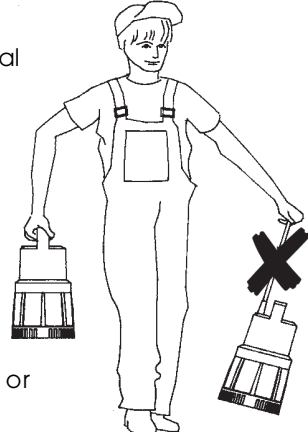


Through purchase of this product, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this product must not be disposed of with general household waste. It must be disposed of according to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

SAFETY PRECAUTIONS

1. This pump is designed to pump **WATER ONLY**. Never use for pumping flammable liquids or chemicals of any kind.
2. **NEVER** allow the pump to run dry.
3. An approved Residual Current Device (RCD) **MUST** be used when pumping from ponds or swimming pools.
4. Your submersible pump may **ONLY** be used for pumping water from a swimming pool when there is no person or animal in the pool.
5. **ALWAYS** disconnect the pump from the electrical supply before placing into, or removing from water, and before any cleaning or maintenance.
6. When raising or lowering the pump, **ALWAYS** use a rope or chain attached to the handle. **NEVER** lift or carry the pump by the mains cable or the float switch cable.
7. **DO NOT** run the pump with the body exposed for longer than 10 minutes.
8. **DO NOT** install the pump on sand, silt, mud etc., or ground which is likely to shift.
9. If pumping water which is liable to freeze, the pump **MUST** be run continuously, otherwise the pump must be removed from the water and stored in a frost free location.
10. If the pump is to be used where there may be silt or mud (e.g., garden ponds), **ALWAYS** keep the pump clear of any sediment by standing it on a platform or bricks or suspending from a rope or chain attached to the handle.
11. **DO NOT** use for permanent installation in pumping clean or pure water, (particularly drinking water), as there is the remote risk of contamination, should there be a leak in the seal device.
12. If the mains cable becomes damaged, it **MUST** be replaced - NOT repaired. (See Electrical Installation).
13. If used in a confined space - in a shaft or sump etc., **ENSURE** the float has sufficient room to operate correctly (see Installation on page 8).



WARNING: FAILURE TO COMPLY WITH THESE SAFETY PRECAUTIONS COULD BE EXTREMELY HAZARDOUS, NOT ONLY CAUSING A RISK TO PERSONAL SAFETY BUT ALSO DAMAGE TO THE PUMP, WHICH COULD INVALIDATE YOUR GUARANTEE.

ELECTRICAL CONNECTIONS

The mains lead should be connected to a standard 230Volt (50Hz) electrical supply through an approved 13Amp BS 1363 plug or a suitably fused isolator switch. We recommend that the pump be connected via a Residual Current Device (RCD).

IMPORTANT: If used for draining swimming pools or ponds, it is mandatory that the pump be fitted with a Residual Current Device (RCD), with a rated residual operating current of no greater 30mA.

If the pump is to be connected to an outdoor electrical supply, make sure that both the plug and the socket are of a BS approved waterproof design.

In the event that the pump is hard wired into the electrical system, it must be carried out in accordance with IEE regulations.

WARNING: THIS APPLIANCE MUST BE EARTHED

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

Green & Yellow	-	Earth
Blue	-	Neutral
Brown	-	Live

As the colours of the flexible cord of this appliance may not correspond with the coloured markings identifying terminals in your plug proceed as follows:

Connect GREEN & YELLOW cord to plug terminal marked with a letter "E" or Earth symbol "⏏" or coloured GREEN or GREEN & YELLOW.

Connect BROWN cord to terminal marked with a letter "L" or coloured RED

Connect BLUE cord to terminal marked with a letter "N" or coloured BLACK

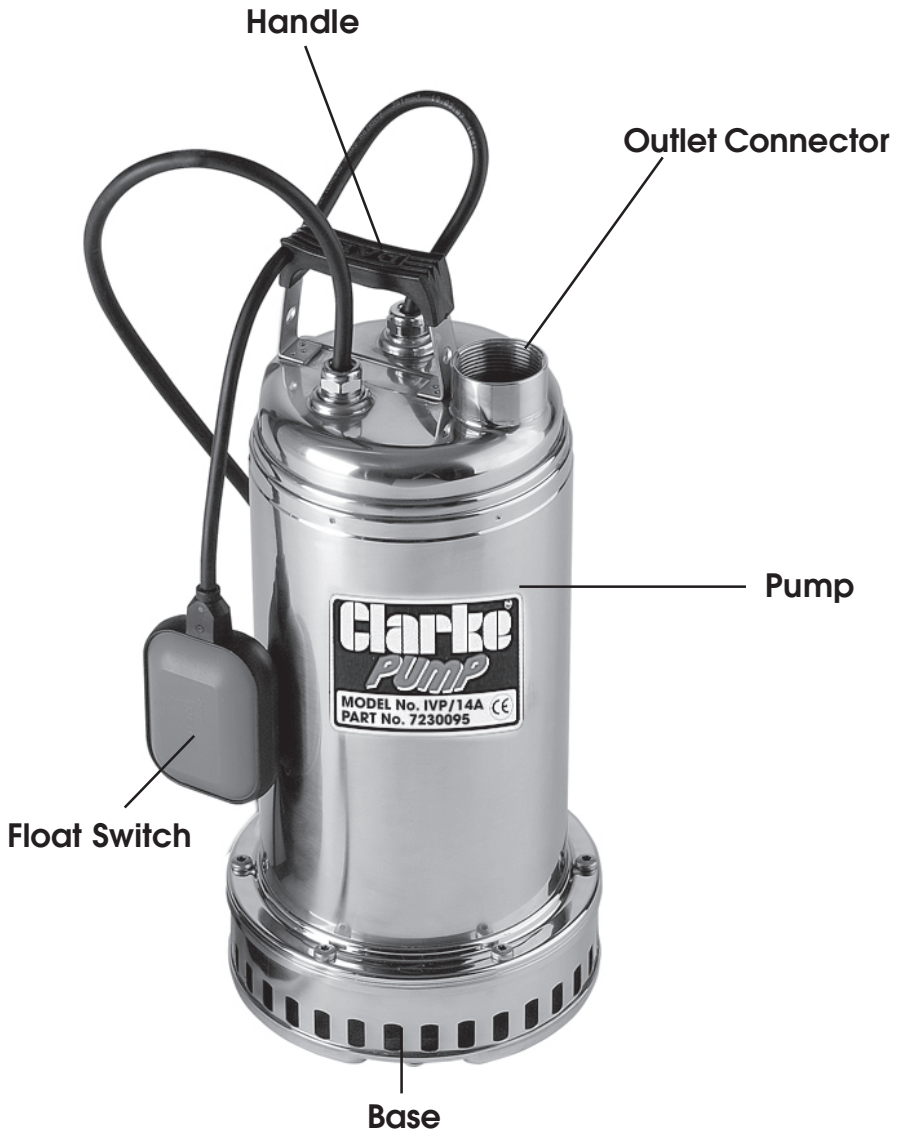
FUSE RATING

The fuse in the plug for this appliance must be rated at **13 amps**.

If this appliance is fitted with a plug which is moulded onto the electric cable (i.e. non-rewirable) please note:

1. The plug must be thrown away if it is cut from the electric cable. There is a danger of electric shock if it is subsequently inserted into a socket outlet.
2. Never use the plug without the fuse cover fitted.
3. Should you wish to replace a detachable fuse carrier, ensure that the correct replacement is used (as indicated by marking or colour code).
4. Replacement fuse covers can be obtained from your local dealer or most electrical outlets
5. The fuse in the plug must be replaced with one of the same rating (**13 amps**) and this replacement must be ASTA approved to BS1362.

PARTS IDENTIFICATION



PREPARATION

CONNECT THE DELIVERY HOSE



WARNING: DISCONNECT THE PUMP FROM THE MAINS POWER SUPPLY BEFORE CONNECTING THE DELIVERY HOSE

The pumps outlet connector is provided with a 2" BSP Male thread, for connection to a suitable adapter (not provided). It is advisable to seal the thread with PTFE, or similar tape, to ensure maximum performance from your pump.

Where it is necessary for long horizontal stretches of delivery hose to be used, the hose ID should be greater than that of the delivery outlet.

NOTE: When the pump is used in a permanent or semi-permanent installation, a check valve MUST be fitted in the delivery pipe.

NOTE: Suitable hoses are available from your Clarke dealer.

LOCATING THE PUMP

- 1 Tie a rope to the lifting handle of the pump and lower the pump on a flat surface in the area that you want to drain.
 - If there is sediment in the operating area, the pump should be placed on house bricks, or similar.
 - Ensure the pump is positioned with adequate space so that the movement of the float switch is not restricted.

NOTE: The symbol  on the pumps' Rating Plate, denotes the MAXIMUM depth to which the pump may be submerged, in metres.

- The pump should be well clear of silt, mud or any type of marine growth.
- Take all necessary precautions as described on page 4 before plugging in, and switching ON.



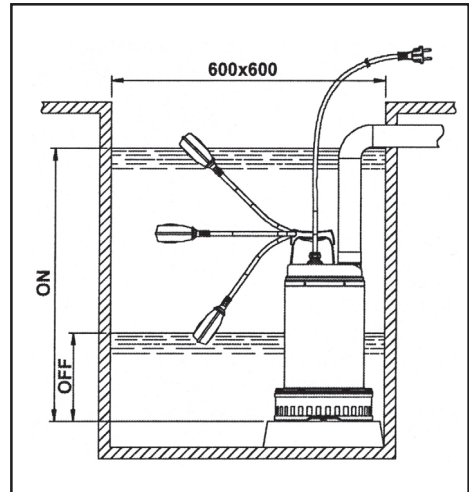
WARNING: NEVER CARRY THE PUMP USING THE MAINS POWER CABLE. DAMAGE TO ELECTRICAL CABLES CAN BE DANGEROUS. ALWAYS USE THE LIFTING HANDLE OR A ROPE ATTACHED TO THE LIFTING HANDLE WHEN MOVING THE PUMP.

USING THE PUMP



CAUTION: CHECK THE PUMP FOR DAMAGE BEFORE USE, DO NOT USE THE PUMP IF IT IS DAMAGED IN ANY WAY.

- 1 Connect the mains plug to a high sensitivity residual current device (RCD) which has a tripping current of less than 30mA.
- 2 Switch the mains power supply on.
 - The pump incorporates a float switch, which automatically switches the pump ON when the water is above a predetermined level.
- 3 The pump will begin to drain water.
 - As the water level falls, so will the float switch, until it stops the pump.



- 4 When the pumping is finished, disconnect the pump from the mains power supply.
 - The pump is fitted with a thermal cut out to protect the motor from overheating. If the thermal cut out activates, the motor will stop and automatically switch back on when it has cooled down sufficiently.

CLEANING AND MAINTENANCE



WARNING: MAKE SURE THAT THE PUMP IS DISCONNECTED FROM THE MAINS SUPPLY BEFORE CLEANING, OR PERFORMING ANY MAINTENANCE.

- The pump should require no maintenance other than regular cleaning. Its' mechanical seal is lubricated in an oil chamber, and its' bearings are 'sealed for life'. If the pump starts to show signs of wear or damage, contact your CLARKE dealer for advice.
- Do not use the pump if there is any damage to the mains supply cable, or to the float switch or its cable.
- Check the pump installation regularly to ensure the base inlet is clear of leaves or other debris.
- Do not attempt to repair the pump yourself, as you may damage the seals and invalidate your guarantee. Repairs must be carried out by a qualified pump engineer, your CLARKE dealer, or contact the CLARKE Service Department on: 020 8988 7400.

If the pump becomes badly clogged, the stainless steel strainer may be removed and cleaned by removing the three screws **FROM THE BASE ONLY**. DO NOT attempt to remove any other screws.

Backflush the pump chamber by directing a jet of clean water through the outlet port.



WARNING: DO NOT ATTEMPT TO STRIP THE PUMP FURTHER AS THIS WILL INVALIDATE THE GUARANTEE.

ANNUALLY OR EVERY 2000 WORKING HOURS (Whichever is sooner)

The sealing oil must be checked by a qualified pump engineer. Consult your Clarke dealer, or Clarke International Service Department.

TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE
Pump will not start.	<p>Check to ensure power is switched on.</p> <p>Check fuse (consult an electrician if in doubt).</p> <p>If extension lead is fitted, check connections (consult an electrician if in doubt).</p> <p>Internal thermal cutout has not reset. Leave for 15 minutes and try again.</p> <p>The Impeller may be jammed. Disconnect from the mains supply, remove the bottom strainer and remove any objects that may be obstructing the impeller. Replace the strainer and try again.</p> <p>Float switch may be jammed against side wall or prevented from moving.</p> <p>Water level too low - float switch in OFF position - Lift float to check switch. If the pump still fails to start, consult your CLARKE dealer for advice.</p>
Pump will start but not pump water.	<p>Check to ensure strainer is not blocked - clean as necessary.</p> <p>Discharge tube clogged or obstructed - clear as necessary.</p> <p>The head may be too great, i.e. you are trying to lift the water too great a distance for the pump to cope with. (See specifications pages 2).</p> <p>Impeller may be damaged - Consult your CLARKE dealer.</p>
Pump will not stop.	<p>Float switch may be prevented from moving to the fully down position.</p> <p>Float switch may be faulty. Consult your CLARKE dealer for advice.</p>
Pump stops running.	<p>Thermal overload has operated. If this condition persists, investigate the cause. DO NOT attempt to pump anything other than clean water.</p> <p>Pump has run dry, or float switch has cut in.</p> <p>A foreign object has jammed the impeller.</p>

PARTS & SERVICE CONTACTS

For spare parts and service, please contact your nearest dealer,
or CLARKE International, on one of the following numbers.

PARTS & SERVICE TEL: 020 8988 7400

or e-mail as follows:

PARTS: Parts@clarkeinternational.com

SERVICE: Service@clarkeinternational.com



DECLARATION OF CONFORMITY

This is an important document and should be retained.



We declare that this product complies with the following directives:

- 89/336/EEC *Electromagnetic Compatibility directive, (amended 2004/108/EC).*
- 2006/95/EC *Low Voltage Equipment directive (amended by 93/68/EEC).*
- 98/37/EC *Machinery Directive*
- 2002/95/EC *Restriction of Hazardous substances*

The Following Standards have been applied to the product:

- EN 292-1, EN 292-2, EN 55014-1:2001, EN 55014-2:1997, EN 60555-2/3
- EN 60335-1 EN 60335-2-41

The technical documentation required to demonstrate that the products meet the requirements of the Low Voltage Equipment directive has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: **2007**

Product Description: Submersible Water Pump
Model number(s): IVP/14A
Serial / batch Number: Current Manufacture.
Date of Issue: 15/002/2007

Signed

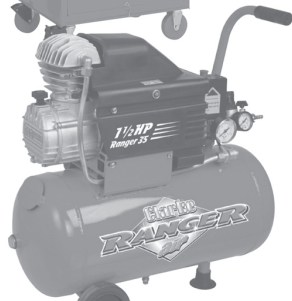
A.C. AIKEN

Senior Manager Clarke International.

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS



AIR COMPRESSORS
From DIY to industrial, Plus air tools, spray guns and accessories.

GENERATORS
Prime duty or emergency standby for business, home and leisure.

POWER WASHERS
Hot and cold, electric and engine driven - we have what you need

WELDERS
Mig, Arc, Tig and Spot. From DIY to auto/industrial.

METALWORKING
Drills, grinders and saws for DIY and professional use.

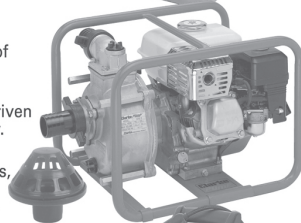
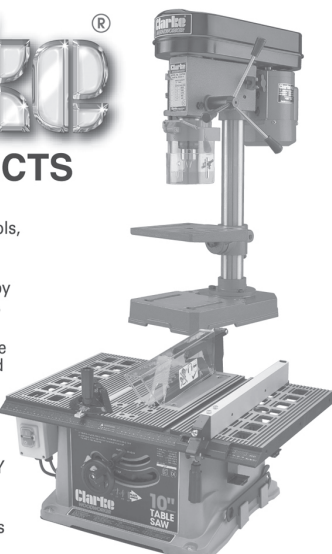
WOODWORKING
Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS
Cranes, body repair kits, transmission jacks for all types of workshop use.

WATER PUMPS
Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS
Angle grinders, cordless drill sets, saws and sanders..

STARTERS/CHARGERS
All sizes for car and commercial use.



For spare parts and servicing, please contact your nearest dealer, or Clarke International on
020 8988 7400
e-mail: Parts@clarkeinternational.com e-mail: Service@clarkeinternational.com

Clarke INTERNATIONAL
Hemnal Street, Epping, Essex CM16 4LG