

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE OR PERSONAL INJURY, AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

WARNING! THIS PUMP MUST BE INSTALLED AND TESTED BY A QUALIFIED ELECTRICIAN. See installation.

Once installed, the following tests and checks must be regularly undertaken:

1.1. ELECTRICAL SAFETY. **WARNING!** It is the user's responsibility to read, understand and comply with the following: You must check all electrical equipment and appliances to ensure they are safe before using. You must inspect power supply leads, plugs and all electrical connections for wear and damage. You must ensure the risk of electric shock is minimised by the installation of appropriate safety devices. An RCCB (Residual Current Circuit Breaker) should be incorporated in the main distribution board. We also recommend that an RCD (Residual Current Device) is used with all electrical products. It is particularly important to use an RCD together with portable products that are plugged into an electrical supply not protected by an RCCB. If in doubt consult a professional electrician. You may obtain a Residual Current Device by contacting your Sealey dealer. **You must** also read and understand the following instructions concerning electrical safety.

- 1.1.1. The **Electricity At Work Act 1989** requires all portable electrical appliances, if used on a business premises, to be tested by a qualified Electrician at least once a year by using a Portable Appliance Tester (PAT).
- 1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of the appliance, and the safety of the appliance operator. **If in any doubt about electrical safety, contact a qualified electrician.**
- 1.1.3. Ensure the insulation on all cables and the product itself is safe before connecting to the mains power supply.
- 1.1.4. Ensure that cables are always protected against short circuit and overload.
- 1.1.5. Regularly inspect power supply, leads, plugs and all electrical connections for wear and damage, especially power connections, to ensure that none are loose.

- 1.1.6. **Important:** Ensure the voltage marked on the product is the same as the electrical power supply to be used, and check that plugs are fitted with the correct capacity fuse. A 13Amp plug may require a fuse smaller than 13Amps for certain products (*subject to 1.1.10. below*) see fuse rating at right.
- 1.1.7. DO NOT pull or carry the powered appliance by its power supply lead.
- 1.1.8. DO NOT pull power plugs from sockets by the power cable.
- 1.1.9. DO NOT use worn or damaged leads, plugs or connections. Immediately replace or have repaired by a qualified Electrician. A U.K. 3 pin plug with ASTA/BS approval is fitted. In case of damage, cut off and fit a new plug according to the following instructions (discard old plug safely).

(UK only - see diagram at right). **Ensure the unit is correctly earthed via a three-pin plug.**

- a) **Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.**
- b) **Connect the BROWN live wire to live terminal 'L'.**
- c) **Connect the BLUE neutral wire to the neutral terminal 'N'.**

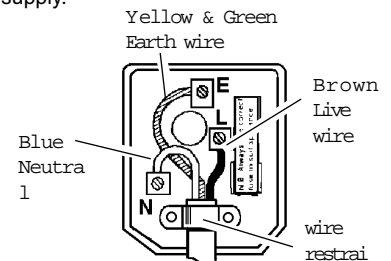
After wiring, check there are no bare wires, that all wires have been correctly connected and that the wire restraint is tight.

- 1.1.10. **Extension cable use. Only use a cable designed for use with water equipment. Contact your dealer or a qualified electrician for advice. Ensure water is kept clear of electrical mains power supply. DO NOT touch switch or plug with wet hands.**

1.2 GENERAL SAFETY

WARNING! Pump must be used in accordance with Health & Safety, government, local authority, and water authority rules and regulations.

- 3 Familiarise yourself with application and limitations, as well as the specific potential hazards peculiar to the pump.
- WARNING!** Disconnect the pump from the mains power before servicing or performing any maintenance.
- 3 Maintain the pump in good condition (use an authorised service agent). Keep the pump clean.
- 3 Replace or repair damaged parts. *Use genuine parts only. Non authorised parts may be dangerous and will invalidate the warranty.*
- 3 Locate pump in an adequate working area for its function, keep area clean, tidy and free from unrelated materials.
- 3 Only use for pumping clean cold or warm water, (NOT exceeding 35°C).
- 3 If used In situations of possible flooding, user is responsible for installing appropriate back up procedures, alarms etc in case of pump failure.
- 3 If used with swimming pools, fish ponds, etc, ensure areas are clear of people and animals. (including removal of fish from ponds). Note: this pump is not designed for continuous use in a fish pond or similar water feature or display.
- 8 DO NOT operate the pump if any parts are damaged or missing as this may cause failure or possible personal injury.
- 8 DO NOT use the pump for any purpose other than for which it is designed.
- 8 DO NOT use to pump chemicals, fuels, fatty liquids or salt water.
- 8 DO NOT pump sludge, sand, gravel, mud, or fibrous materials. Ensure the inlet hose will not pick up any solid materials. Sand and such substances will reduce working life of pump, and invalidate your warranty.
- 8 DO NOT use to pump septic tanks or settling pits.
- 8 DO NOT submerged the pump or any electrical cable in water. Protect the pump form external wet conditions.
- 8 DO NOT operate pump during freezing temperatures. DO NOT allow any part of the pump or pipes to freeze.
- 8 DO NOT carry pump by its electrical cable, or piping. The pump should be secured in its operating location.
- 3 When not in use switch pump off, remove plug from power supply and drain out any water.
- WARNING!** DO NOT allow uncontrolled discharge of contaminated water thus polluting environment.



**FUSE RATING
5 Amp FUSE**

2. INTRODUCTION & SPECIFICATIONS

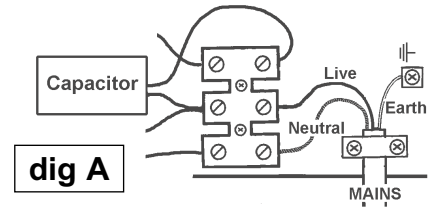
The EWP40 is designed for pumping clean cold or warm water, (NOT exceeding 35°C) to supply domestic, agricultural or light industrial use. Typical use would be for filling tanks, wells, large ponds, swimming pools, irrigation and the general transfer of water. The pump may also be used to circulate water.

Model	Power	Max head	Max flow	Performance example head(m) @ Flow l/m	Outlet pipe bore	Length x width x height
EWP40	500W	37m	40 l/m	@ 10m = 30 l/m @ 28m = 10 l/m	1"	390 x 190 x 260mm

3. INSTALLATION

WARNING! ELECTRICAL CONNECTION MUST BE UNDERTAKEN AND TESTED BY A QUALIFIED ELECTRICIAN.

Connect the correctly rated electrical mains cable to the pump unit according to diagram A.



The pump may be gravity or suction fed. Gravity feed is the preferred arrangement as this will place less strain on the long term operation of the pump. Depending on the installation, various plumbing accessories will be required. Determine requirements and if necessary contact your local Sealey dealer for advice on obtaining appropriate items.

3.1. PUMP

Locate pump in an adequate working location ensuring there is good air circulation. Externally the pump is not designed to be totally waterproof so protect from possible wet situations. Secure the pump to a flat horizontal surface with the outlet pipe (fig 1) pointing upwards (vertically).

To minimise the load on the pump motor (i.e. reduced flow = less load on motor), the point of discharge (water outlet) must be at a vertical (upright) minimum distance of 1.5m. If this is not possible a restriction valve must be installed to the outlet pipe (fig 1). This valve will regulate and reduce the pump flow thus decreasing the motor load. Ensure pipes are adequately secured to sustain the pump and pipe when operating.

3.2. GRAVITY FEED (Preferred arrangement when feed water level is above the pump inlet height).

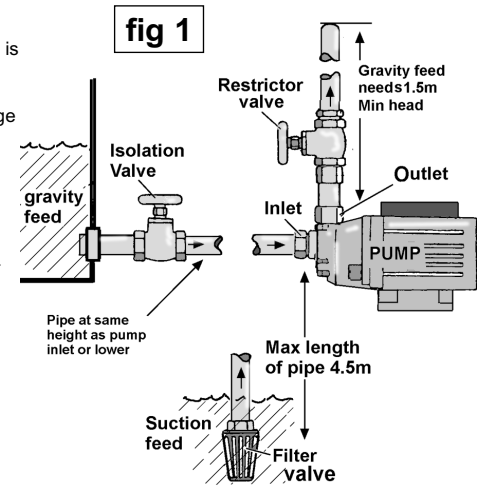
Fit an isolation valve to gravity feed pipe, which is used to turn water off and restrict flow if necessary.

3.3. SUCTION FEED (When the feed water level is lower than the pump inlet)

The maximum distance between the feed water and the pump inlet must not exceed 4.5m. Connect a 1" filter valve to the feed pipe inlet (fig 1) to ensure water will be retained in pump system. Connect other end to pump inlet. It should not be necessary to control flow by use of the outlet regulator valve which should be fully open.

NOTE: With both gravity and suction feed ensure:

1. The supply inlet pipe is the same height as the pump inlet or lower.
2. If connecting to a drinking water supply that water authority regulations are applied.



4. OPERATING INSTRUCTIONS

WARNING! Ensure you read, understand and apply safety instructions.

- 4.1 Check inlet water pipe is turned on accordingly or that inlet suction feed is fully placed in the water supply to a depth of at least 30mm beyond the filter.
- 4.2 If using gravity feed, check and set the outlet restrictor valve as necessary.
- 4.3 Prime the pump via the bleed screw (located at the side of the outlet pipe).
- 4.4 If for any reason the motor should overheat a thermal circuit breaker will automatically activate and stop the pump. If this happens, switch the mains power off and unplug. Check reason for overheating and remedy the problem. Should the pump not be switched off, the motor will remain off for approximately 5 minutes, and when cooled will automatically switch itself on again.

5. MAINTENANCE

WARNING! With the exceptions listed below, pump, and electrical service, maintenance and repair must only be undertaken by an authorised service agent. Failure to observe this rule may be dangerous and will invalidate your warranty.

WARNING! Ensure the pump is disconnected from the mains power supply before attempting any service or maintenance.

- 5.1 Keep all parts of the pump clean. Rinse and drain when not in use. Check all electrical connections to ensure they are in good condition.
- 5.2 If pump becomes blocked, remove the inlet pipe and direct jet of water through the outlet whilst running the motor for several seconds. Repeat this operation until the blockage has been expelled. If this action does not remedy the problem contact your local Sealey service agent.
- 5.3 Clean any accessory filters according to the manufacturers instructions.

TROUBLESHOOTING

a. The thermal circuit breaker cuts in as the motor has overheated.	<ol style="list-style-type: none"> 1. Motor overload due Intake pipe blocked or impeller jammed. 2. Power supply incorrect. 3. Temperature of inlet water exceeds 35°C 	<ol style="list-style-type: none"> 1. Check for blockage, clean pipes and pump in/outlets. 2. If problem suspected, contact qualified electrician. 3. Reduce water temperature <p>* Allow the circuit breaker to cool for approx 20mins before restarting.</p>
b. Motor operates but there is no suction.	<ol style="list-style-type: none"> 4. Pipe intake end is not in the water, or maximum intake pipe length exceeded. 5. Pump not primed. 6. Clogged or air in intake pipe 7. Leaking intake connections. 	<ol style="list-style-type: none"> 4. Check and remedy 5. Prime the pump 6. Check clear intake pipe 7. Check, tighten, or re-seal pipes.
c. Insufficient water discharge	<ol style="list-style-type: none"> 8. Intake pipe is higher than the pump intake. 9. Pipes, valves or pump partially blocked. 10. Input pipe too narrow. 11. Water level is falling beyond pipe inlet. 	<ol style="list-style-type: none"> 8. Lower the intake pipe 9. Check and clean out blockage 10. Use wider diameter pipe. 11. Extend the pipe into the feed water
d. The pump will not start or suddenly stops during operation.	<ol style="list-style-type: none"> 12. No electrical power. 13. Circuit breaker has triggered. 14. Impeller is jammed. 	<ol style="list-style-type: none"> 12. Check cable, plug and fuse. 13. See (a) above. 14. Clean the pump.

Declaration of Conformity We, the sole importer into the UK, declare that the product listed below is in conformity with the following EEC standards and directives

ELECTRICAL WATER PUMP
Model: EWP40
73/23/EEC Low Voltage Directive
89/336/EEC EMC Directive
BSEN 60335-2-41



The construction file for this product is held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

Signed by Mark Sweetman

7th August 2000

For Jack Sealey Ltd.
Sole importer into the UK
of Sealey Power Products.

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

IMPORTANT: No liability is accepted for incorrect use of product. **WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim. **INFORMATION:** Call us for a copy of our latest catalogue and promotions on 01284 757525 and leave your full name and address including postcode.



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