



AIR POWERED PUMP AWAY STATION

MODEL NO: **AK450DP**

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 AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instruction manual



Wear eye protection



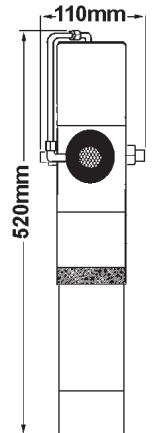
Wear protective clothing



Wear protective gloves

1. SAFETY

- WARNING!** Ensure Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment.
- WARNING! DO NOT** pollute the environment by allowing uncontrolled discharge of waste oil. Dispose of waste oil in accordance with local authority regulations.
- WARNING!** Turn off air supply and de-pressurise the output line before removing the pump unit from any installation or mobile system. Failure to comply with this instruction may damage the unit and will invalidate the warranty.
- WARNING!** Disconnect the pump from the air supply before changing accessories, servicing or performing any maintenance.
- WARNING!** Ensure correct air pressure is maintained and not exceeded.
- ✓ Familiarise yourself with the application and limitations of the product as well as the potential hazards.
- ✓ Install the pump in an appropriate working area. Keep area clean and tidy, free from unrelated materials and ensure there is adequate lighting.
- ✓ Maintain the pump in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ When not in use ensure the air supply is turned off.
- ✓ Keep the pump clean for best and safest performance.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorised persons away from the working area.
- ✓ Keep air hose away from heat, oil and sharp edges.
- ✓ Check air hose for wear before each use, and ensure that all connections are secure.
- ✗ **DO NOT** allow unauthorised persons to operate the pump.
- ✗ **DO NOT** operate the drainer if any parts are damaged or missing as this may cause failure and/or personal injury.
- ✗ **DO NOT** point airline at yourself, other persons or animals.
- WARNING! DO NOT** tamper with, or open, the pump unit. To do so will invalidate the warranty.
- ✗ **DO NOT** use the pump to draw off any other liquids other than oils.
- ✗ **DO NOT** force the pump to achieve a task it was not designed to perform.
- ✗ **DO NOT** allow untrained persons to operate the pump
- ✗ **DO NOT** operate the pump when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✗ **DO NOT** leave the pump operating unattended.



2. INTRODUCTION

Air operated 1:1 oil pump, suitable for use with Model No's AK450DX and AK468DX oil drain units. Supplied with a wall mounting bracket, 2m flexible hose with dry-fit male and female quick couplings to attach it to the drain unit. 2m flexible air supply hose with filter, lubricator and regulator assembly is also included. The pump can be plumbed into a run of pipework to a waste oil storage point sited out of the workshop.

3. SPECIFICATION

Model no.....AK450DP
 Air consumption.....8.8cfm
 Min/max air pressure.....30/120psi
 Oil delivery @90psi.....60L/min

4. CONTENTS

1. Pump
2. Filter-regulator
3. Lubricator
4. Pressure gauge
5. Mounting bracket, filter-regulator
6. Air inlet hose and fitting
7. Suction hose and fittings
8. Wall bracket, pump
9. Hex plug, regulator
10. Fitting, air system - 2 off

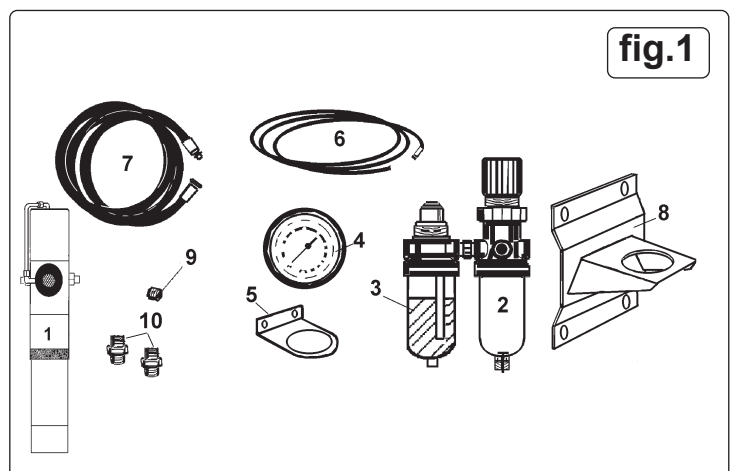
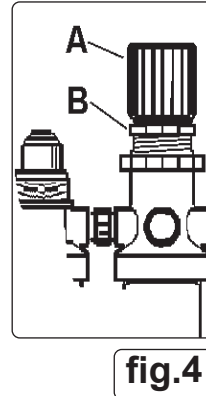
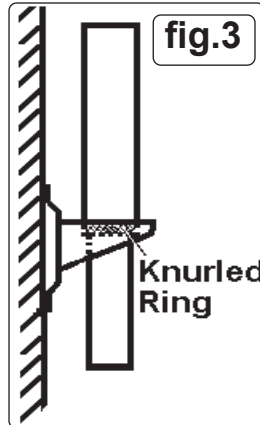
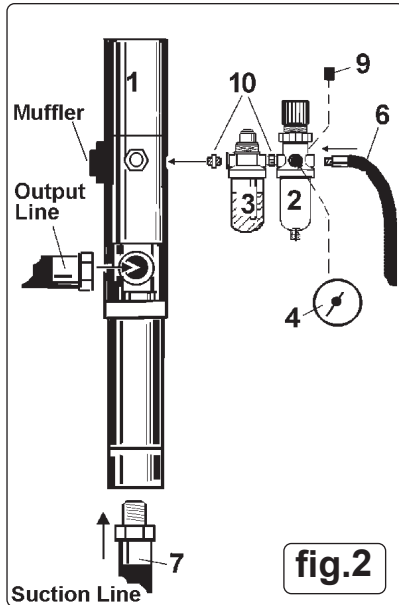


fig.1

5. ASSEMBLY

- 5.1. The air control unit items (fig.1. 2 & 3) have polycarbonate bowls and must not be installed where the bowls may be exposed to materials incompatible with polycarbonate such as certain solvents and chemicals, or where fumes can weaken the bowls. If this is unavoidable, an extension air line hose may be placed between the pump unit and the air control unit, but should not exceed 2 metres (6½ft) in length. Note that a mounting bracket (fig.1.5) is supplied to provide support for remote positioned air control unit.
- **WARNING!** Clean new air lines ensuring all metal shavings have been removed before connecting the pump and control unit. Any dirt in the inlet lines could damage the unit and may invalidate the warranty.



- 5.2. Connect filter-regulator to lubricator using one of the fittings (10). Note the air flow direction arrows on each unit and that lubricator must be between pump and filter-regulator. Using the second fitting (10) connect the lubricator outlet to the pump air inlet.
- 5.3. Screw gauge (4) into filter-regulator port, choosing the port which will provide easiest gauge visibility in final installed position. Plug the remaining gauge port with plug (9).
- 5.4. Screw air hose (6) into filter-regulator inlet port. Secure all connections (but do not over tighten).

6. INSTALLATION

- × **DO NOT** install the unit where it may be damaged by moving apparatus, or may endanger personal safety.
- 6.1. Secure wall mounting bracket (fig.1.8) to wall, as shown in fig.3, ensuring wall and attaching screws are adequate to take the weight of the pump and the pull of the suction and output hoses.
- 6.2. Remove the knurled mounting ring from the pump body and pass the pump unit through the mounting bracket and secure with the knurled ring, (fig.3).
- 6.3. Attach suction hose (fig.2.7) to inlet at base of pump unit. Attach output line (¾" bore - not supplied, (see fig.2) to the pump output port.
- 6.4. The bowl of the filter-regulator (fig.2.2) is fitted with an automatic drain valve the outlet of which may be piped away using suitably sized flexible tube.
- 6.5. Remove lubricator (fig.2.3) oil filler plug and fill with good quality air tool oil (Sealey ATO/500 500ml size or ATO/1000 1L size) checking the maximum level marked on the side of the unit.
- Note:** The installation of a wall bracket next to the pump, to support the suction hose when not in use, is recommended. Use PTFE tape or similar on all connections to ensure leak-free joints.

7. OPERATION

- 7.1. The regulator should be set at 6 bar/90psi. It is important to maintain the correct operating pressure to ensure that the control valves and connectors are not damaged and to prevent leakage in the delivery lines.
- 7.2. Connect the suction hose (fig.2.7) to the oil drain unit and ensure the outlet hose will dispose of the waste in accordance with local authority regulations. **DO NOT** pollute the environment by the uncontrolled discharge of waste products.
- **WARNING! DO NOT** operate pump dry - suction line must be connected to drainer before turning on.
- 7.3. Before turning on air supply for the first time ensure that pressure regulator knob (fig.4.A) is unwound (anticlockwise) so that there is no load on the regulator spring. Turn on air supply. Regulator output gauge (fig.2.4) should show zero. Turn regulator knob clockwise, slowly, until gauge shows 6 bar (90psi) - pump will start at approx. 2 bar. Lock knob with locking ring (fig.4.B) to prevent accidental movement.
- Note:** When resetting the regulated pressure always start from below the new required pressure and adjust up.
- 7.4. Check that there are no leaks from any of the hoses or fittings.
- 7.5. When pumping is complete turn the air line off. Disconnect suction hose from drain unit and store. Wipe up any spillage.
- Note:** Waste oil will not pump if its viscosity is too high.

8. MAINTENANCE

- **WARNING!** Ensure that the pump is disconnected from the air line and that there is no pressure in the output line before attempting any service or maintenance.
- Note: It is essential that dirt and moisture are kept out of the air supply to the pump. Drain air supply system and clean filters regularly.
- 8.1. **AIR LINE LUBRICATOR AND WATER TRAP (FIG.2.3)**
- 8.1.1. This unit is designed to automatically lubricate the pump via the air supply. The unit must be kept topped up with good quality air tool oil (Sealey reference: ATO/500 - 500ml size or ATO/1000 - 1L size). To adjust the oil flow turn the oil regulator on the top of the unit. Turn screw anticlockwise to increase the flow and clockwise to decrease flow - set to minimum flow for this application.

At regular intervals check that water is draining from filter-regulator, since it is essential that water does not enter the pump.

8.2. CLEANING

8.2.1. Clean pump and air units with clean damp cloth. Mild detergents may be used to remove oil.

* **DO NOT** use solvents or abrasives and do not get the pump or air units wet.

9. TROUBLESHOOTING

Problem	Cause	Solution
Air motor does not operate	Air pressure is too low Muffler is blocked Internal defect	Adjust air pressure to above 2 bar/30psi Contact service agent Contact service agent
Poor performance	Muffler is blocked Waste fluid to be pumped is below 15°C Viscosity is too high for the pump	Contact service agent Increase oil temperature by moving drain unit to a warmer area Check viscosity of waste oil



WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

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 this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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