



INSTRUCTIONS FOR  
COMPRESSOR AUTO DRAIN - ELECTRONIC  
Model Nos: **AD3 & AD4**

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 AND CAUTIONS. USE THIS 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. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

## 1. SAFETY INSTRUCTIONS

### 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. If in doubt consult a qualified 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 **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.**
- 1.1.2. Ensure the insulation on all cables and the product itself is safe before connecting to the mains power supply.
- 1.1.3. Ensure that cables are always protected against short circuit and overload.
- 1.1.4. Regularly inspect power supply, leads, plugs for wear and damage and all electrical connections for looseness.
- 1.1.5. **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. **This product is intended for hard wiring and requires a 3 amp fuse.**

### 1.2. GENERAL SAFETY INSTRUCTIONS

- Familiarise yourself with the application and limitations of the drain valve.  
Ensure the drain valve is in good order and condition before use. If in any doubt do not use the unit and contact an electrician or service agent.
- WARNING!** Drain valve must only be serviced by an authorised agent.  
Before removing, or carrying out maintaining on, the drain valve ensure it is disconnected from the mains supply and that the air tank pressure has been vented or isolated.
  - Use only recommended attachments and parts. To use non-recommended items may be dangerous and will invalidate your warranty. Ensure that the maximum pressure (safety valve setting) of the system does not exceed the maximum working pressure of the drain valve. Ensure that the air tank is fully vented before commencing fitment of drain valve.
  - Keep children and unauthorised persons away from the working area.
  - DO NOT** operate in the vicinity of flammable liquids or gases.
  - DO NOT** dis-assemble the drain valve for any reason. The unit must be checked by qualified personnel only.
  - DO NOT** use this product to perform a task for which it is not designed.
  - WARNING!** If an electrical fuse blows, ensure it is replaced with an identical fuse type and rating.

## 2. INTRODUCTION & SPECIFICATION

Suitable for medium and large compressed air systems the AD3 and AD4 Electronic Drain Valves are installed in place of drain cocks and automatically detect and drain any condensate. If no condensate is detected during one of the automatic checks these valves open for a few tenths of a second to remove any air bubbles which might be preventing correct detection. These compact drain valves are vibration and humidity resistant and require no setting or adjusting.

### AD3 & AD4

|                               |                    |                            |               |
|-------------------------------|--------------------|----------------------------|---------------|
| Power Supply                  | .....230V 1ph 50Hz | Drain Capacity             | .....70l/h    |
| Required Fuse                 | .....3A            | Min. Detectable Condensate | ......5cc     |
| Power Consumption - Standby   | .....0.5VA         | Inlet                      | ......3/8"BSP |
| Power Consumption - Operating | .....6.5VA         | Outlet                     | ......Ø10mm   |
| Operating Pressure Range      | .....0.2 - 12 bar  | Cable Gland                | ......1/4"BSP |
| Maximum Pressure              | ......16 bar       | IP Rating                  | ......65      |
| Condensate Temp. Range        | ......1 - 80°C     | Weight                     | ......0.3kg   |
| Ambient Temp. Range           | ......1 - 60°C     |                            |               |

## 3. INSTALLATION

- WARNING!** Ensure you read and understand the safety instructions in Section 1 before proceeding.
- 3.1. **Electrical**
- 3.1.1. Remove securing screw and lift off terminal cover and terminal block (fig.2.A), note seal.
- 3.1.2. Gently prise terminal block from cover.
- 3.1.3. Pass two core cable through terminal cover and connect to terminal block (terminals 1 and 2). Note that earth terminal is unused as unit is double insulated.
- 3.1.4. Press terminal block back into terminal cover then onto connecting pins and replace retaining screw. **DO NOT** omit seal.
- 3.1.5. Ensure cable outer insulation has passed through the gland seal and then tighten gland (fig.2.B) to grip and seal cable.

AD3 & AD4 - 1105 - (1) - 130700



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AD3 & AD4 - 1105 - (1) - 130700

### 3.2. Mechanical

**Notes:** 1) An isolating valve immediately upstream of the drain valve will simplify future removal for maintenance.  
2) Each condensate source must be drained separately, see fig.1.

- 3.2.1. Install the drain valve directly into the system condensate discharge point or as near as possible to it.
- 3.2.2. If remote mounting ensure that valve is below discharge point and that the pipe run will allow air bubbles to flow up from valve to system. Connecting pipe should be of 3/8" bore, or larger. Orientate the valve within the limits shown in fig.2.
- 3.2.3. The outlet (fig.2.C) should be connected to a condensate drain using 8 - 10 mm bore flexible tube.
- 3.2.4. Bubble test joints to check for leaks.

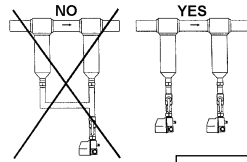


fig. 1

### 4. OPERATION

- 4.1. When installation is complete connect valve to electricity supply via a 3 amp fuse.
- 4.2. Switch on supply and the green LED (fig.3.1) - AD4 only - will light to indicate that the unit is connected.
- 4.3. Operation is now automatic, with the red LED (fig.3.2) - AD4 only - indicating when the drain valve is open.
- 4.4. Pressing the 'Test' button (fig.3.3) - AD4 only - will open the drain valve to confirm that the valve is operating correctly.

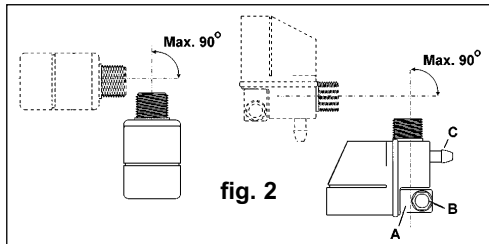


fig. 2

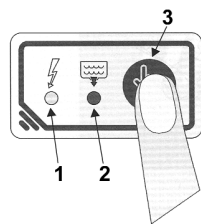


fig. 3

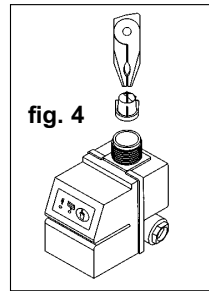


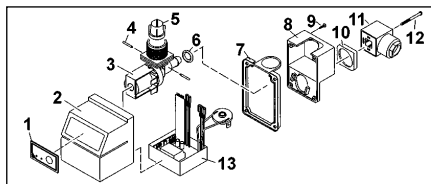
fig. 4

### 5. MAINTENANCE

**WARNING!** Disconnect from electricity supply and isolate from, or vent, system pressure before working on, or removing, drain valve.

- 5.1. Clean inlet filter regularly. Remove filter as shown in fig.4.
- 5.2. In the event of a malfunction, which cannot be rectified by manually operating the valve via the test button - AD4 only, have the unit checked by an authorised service agent.

### 6. PARTS



| Item | Part No. | Description    | Item | Part No. | Description    |
|------|----------|----------------|------|----------|----------------|
| 1    | AD4/01   | Control Panel  | 8    | AD3/08   | Rear Case      |
| 1    | AD3/01   | Label          | 9    | AD3/09   | Screw          |
| 2    | AD3/02   | Front Case     | 10   | AD3/10   | Connector Seal |
| 3    | AD3/03   | Solenoid Valve | 11   | AD3/11   | Connector      |
| 4    | AD3/04   | Sensor         | 12   | AD3/12   | Screw          |
| 5    | AD3/05   | Filter         | 13   | AD3/13   | ECB            |
| 6    | AD3/06   | O-Ring         |      |          |                |
| 7    | AD3/07   | Seal           |      |          |                |

\*AD3/ part numbers apply to both models unless shown otherwise.

**Declaration of Conformity** We, the sole importer into the UK, declare that the products listed here are in conformity with the following standards and directives. The construction files for these products are held by the Manufacturer and may be inspected by a national authority upon request to Jack Sealey Ltd.

Compressor Auto Drain - Electronic. Models: AD3 & AD4  
73/23/EEC LV Directive  
89/336/EEC EMC Directive  
93/68/EEC CE Marking Directive



Signed by Mark Sweetman

14th July 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 this equipment. **WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim. **INFORMATION:** For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



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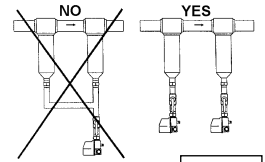


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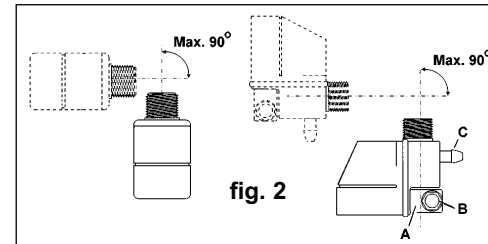


fig. 2

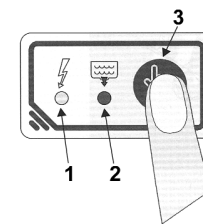


fig. 3

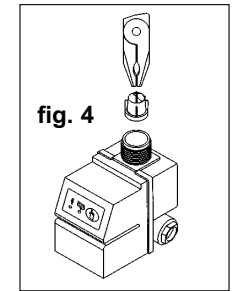


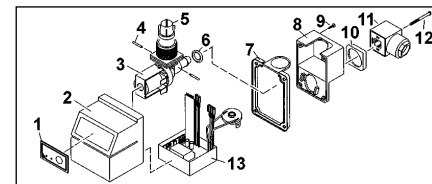
fig. 4

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