

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 the correct capacity fuse is fitted. **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 small and medium compressed air systems the AD1 and AD2 Timed Drain Valves are installed in place of drain cocks and automatically open at preset time intervals to drain condensate. The drain valves are adjustable to suit the volume of condensate being generated thus minimising the loss of compressed air.

**AD1 & AD2**

Power Supply . . . . .	.230V 1ph 50Hz	Ambient Temp. Range . . . . .	.1 - 60°C
Required Fuse . . . . .	.3A	Inlet . . . . .	.3/8" BSP
Power Consumption - Standby . . . . .	.0.2VA	Outlet . . . . .	Ø10mm
Power Consumption - Operating . . . . .	.6.2VA	Cable Gland . . . . .	.1/4" BSP
Operating Pressure Range . . . . .	.0.2 - 12 bar	IP Rating . . . . .	.65
Maximum Pressure . . . . .	.16 bar	Weight . . . . .	.0.2kg
Condensate Temp. Range . . . . .	.1 - 80°C		
		<b>AD1</b>	<b>AD2</b>
Drain Capacity . . . . .	.0.05 - 5l/h		.0.2 - 20l/h

**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.

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### 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.

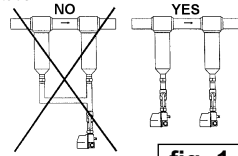


fig. 1

### 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) will light to indicate that the unit is connected.
- 4.3. Set the flow control (fig.3.4) to the required rate of drainage and operation is then automatic, with the red LED (fig.3.2) indicating when the drain valve is open.
- 4.4. Pressing the 'Test' button (fig.3.3) will open the drain valve to confirm that the valve is operating correctly.

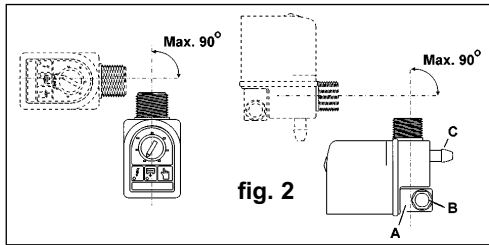


fig. 2

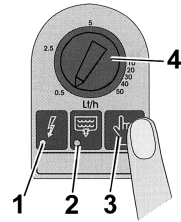


fig. 3

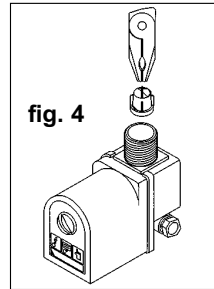


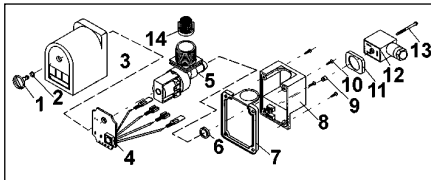
fig. 4

### 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, have the unit checked by an authorised service agent.

### 6. PARTS



Item	Part No.	Description	Item	Part No.	Description
1	AD1/01	Drain Regulator	8	AD1/08	Rear Case
2	AD1/02	O-Ring	9	AD1/09	Nipple
3	AD1/03	Front Case	10	AD1/10	Screw
4	AD1/04	ECB	11	AD1/11	Connector Seal
4	AD2/04	ECB	12	AD1/12	Connector
5	AD1/05	Solenoid Valve	13	AD1/13	Screw
6	AD1/06	O-Ring	14	AD1/14	Filter
7	AD1/07	Seal			

'AD1' 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 - Timed. Models: AD1 & AD2

73/23/EEC LV Directive  
89/336/EEC EMC Directive  
93/68/EEC CE Marking Directive



Signed by Mark Sweetman

*(Signature)*

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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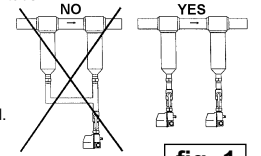


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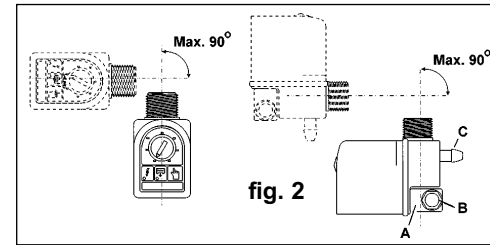


fig. 2

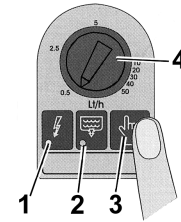


fig. 3

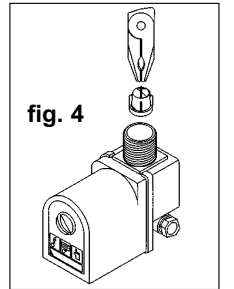


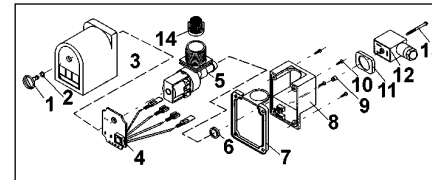
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