DRIFTON

THE SCIENCE OF DISPENSING

Drifton Liquid Dispenser for Barrels

Operation Manual (GB)

Drifton 2000-D

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Introduction

You have selected a reliable, high quality glue dispenser for barrels from Drifton A/S.

The dispenser will provide you with years of trouble-free, productive service. The operation manual will help you maximize the usefulness of your new dispenser.

Please spend a few minutes to become familiar with the controls and features. Follow our recommended testing procedures. Review the helpful information we have included, which is based on more years of industrial dispensing experience.

Most questions you will have are answered in this Operation Manual. However, if you need assistance, please do not hesitate to contact Drifton A/S at telephone 0045-5372 8090 or info@drifton.dk or an authorized distributor

Our goal is to build not only the finest equipment and components, but also to build long-term customer relationships founded on superb quality, service, value and trust.

Drifton A/S
The science of dispensing

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** For your safety, please read this operation manual carefully before operating. And always keep this manual within reach.*

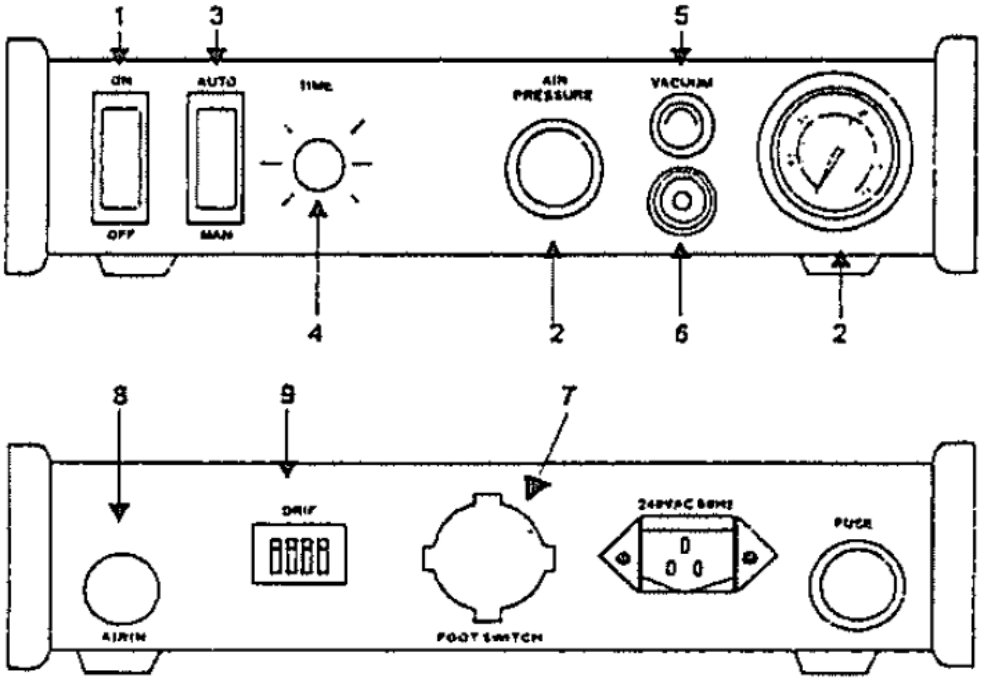
Automatic Liquid Dispenser with time control to push the liquid pneumatically, controlled by timer, to be sure of the same dispensing drops and dispensing cycle time. Regulate the air pressure with suitable tip on your equipments with the different liquids such as glues, greases, solder pastes. Applicable for 10 types of steel tips and 5 types of plastic tips for the customers various needs.

Technical data

1.	Timer: Programmable:	0.01 ~1s; 0.1 ~10s 0.2 ~20s; 0.3 ~30s
2.	Cycle Initiation:	Maintained or Momentary Maintained or Momentary Auto Repair
3.	Repeat Tolerance:	± 0.5 %
4.	Size:	235 x 225 x 63mm
5.	Weight:	2.20kg
6.	Voltage Input:	220~240V 50 Hz AC
7.	Internal Voltage:	24V DC
8.	Minimum Deposit:	0.01ml
9.	Air Input:	2.5 ~7 bar (35~100 psi)
10.	Air Output:	0.01 ~5.5 bar (1~78 psi)

Features

Feature	Function
1. Power Switch:	Turns unit on and off. Illuminated to indicate “ON” position.
2. Air Pressure:	Controls and Indicates air Pressure to, Regulator/gauge: the dispense circuit.
3. Mode Switch:	
	a. B-1000 Places the dispense circuit in automatic or manual shot mode.
	b. B-2000 Places the dispense circuit in automatic or manual shot mode.
	c. B-2000A Places the dispense circuit in automatic or manual shot mode.
4. Timer Control:	Adjust the shot of the Auto dispense mode.
5. Vacuum Control:	Adjust the intensity of “suck back” vacuum applied to the dispense circuit.
6. Dispense Outlet:	Provide a quick connect receptacle for dispense air circuit.
7. Foot-switch:	Activates the dispense circuit.
8. Air-in tube:	High-pressure air input.
9. Dispensing control:	Four grades for the dispensing cycle time.



Dotting range regulated

Under the “Auto” mode, full clockwise turn of timer knob, to step the foot switch, as:

Drip switch is on at 1:	dispensing time > 1s
Drip switch is on at 1, 2:	dispensing time > 10s
Drip switch is on at 1, 2 and 3:	dispensing time > 20s
Drip switch is on at full grades:	dispensing time > 30s

Customer can adjust according to time-being requirements.

Dotting regulated

Different settings on the drip switch can be applied as the following table:

TIMED MODE	0.01s	0.06s	0.16s	0.26s
S1	ON	ON	ON	ON
S2	OFF	ON	ON	ON
S3	OFF	OFF	ON	ON
S4	OFF	OFF	OFF	ON

Dotting range regulated

Time range can be regulated on the time table knob. Every dot: 1s min reach to the max 20s up.

Internal air pressure regulated

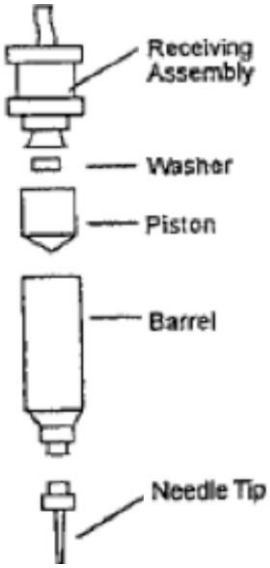
The air pressure regulator knob, regulates internal air pressure, on the air pressure gauge, general use between 0.1 – 2.7 bar (1-40 psi)

Vacuum control regulated

The vacuum control knob regulates the ending dot in the air deflation, so you avoid dotting connected with others.

Setup

1. Connect below 7 bar dry and filtered air supply to the units air input plug.
2. Put the material and parts in the barrel properly, (material height may not excess the warning line, otherwise you spend more) see the fig. 3.
3. Insert the power plug, foot switch plug and hose plug into the concerned sockets.



Operation

1. Turn the unit on and indicator at “On” position lights up.
2. Pull the air pressure regulator knob outward and turn clockwise until the desired air pressure is indicated.
3. Depending on your needs, switch on the “MAN” or “AUTO” mode, then it is ready to be operated.

Caution

The dispensed material may be toxic and/or hazardous, refer to material manufacturers bulletin for proper handling and safety precautions.

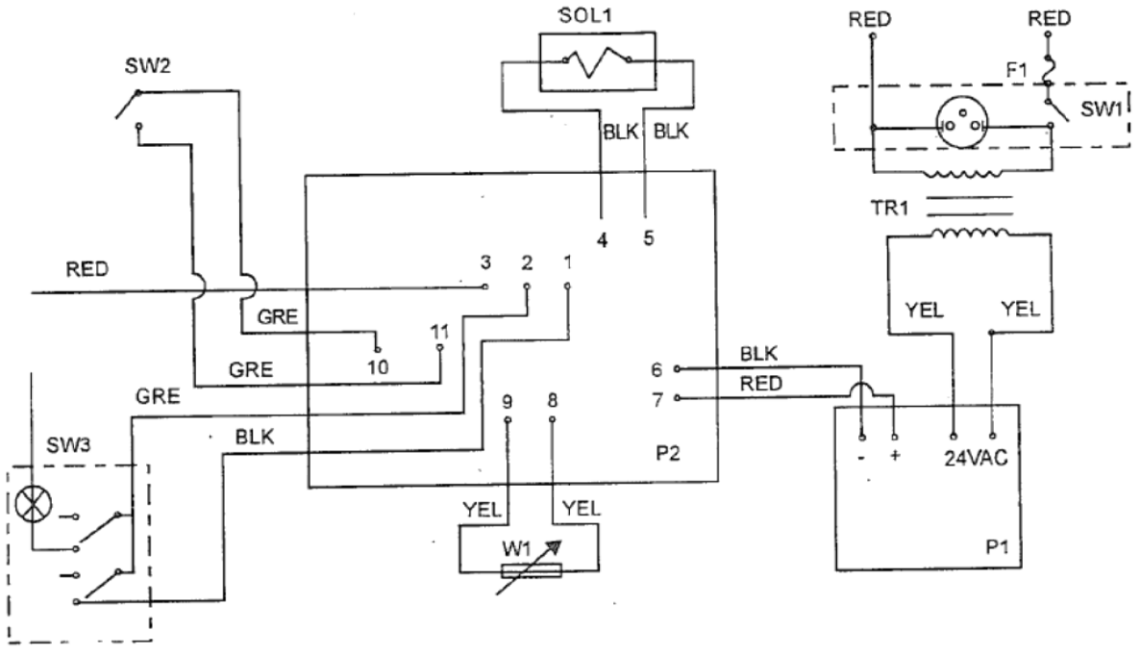
1. Input high pressure air max. shall not excess 7 bar (100psi). Internal air pressure shall not excess 5.5 bar (78psi). If the work pressure is over 4 bar, please use aluminum-alloy connector.
2. All materials are kept on (50c). Avoid the density changed more, if not, it will be hard to pass, and it can not do dotting.
3. The material must be used average/normally, when operated.
4. Auto mode operation, the air pressure regulated at 1-2.7 bar (15-40 psi) available.
5. Auto mode operation, clean the material of the tip in order to shot easily.
6. In “AUTO” mode, the suck-back air force should be adjusted under air pressure, dispensing cycle and drop size. Too strong air pressure will break the normal work.
7. When ending work, clean the barrel in time and put the concerned parts in cleaning water for 5-10 minutes, it is easy to clean.

Maintenance

To assure trouble free operation, the following points should be followed:

1. Make certain air supply is clean and dry.
2. Make certain AC outlet is grounded and has proper voltage rating.
3. Avoid turning barrels upside down or laying barrel, so that the material can run through the air line to internal components.
4. Do not allow barrel assemblies to be in contact with hot or sharp objects.
5. Avoid connecting liquid dispenser to air supply exceeding 7 bar (100 psi)
6. Avoid exposing liquid dispenser to excessive moisture or solvent situation.

Dispensing Controller Electrical Schematic



Symbol	Description
F1	0.25A Fuse 0.25am
P1	Power board
P2	Time set board
S1	Solenoid valve
W1	Time-set potentionemeter
SW1	Power switch
SW2	Foot switch
SW3	Mode switch
TR1	Transformer

Dispensing Controller Pneumatic System