

Operating Manual

Single Head Gear Pump Filler

Model No: YL-1

Figures 1, 2 and 3 shown below will familiarize you with the various parts of the YL-1 single head gear pump filling machine.

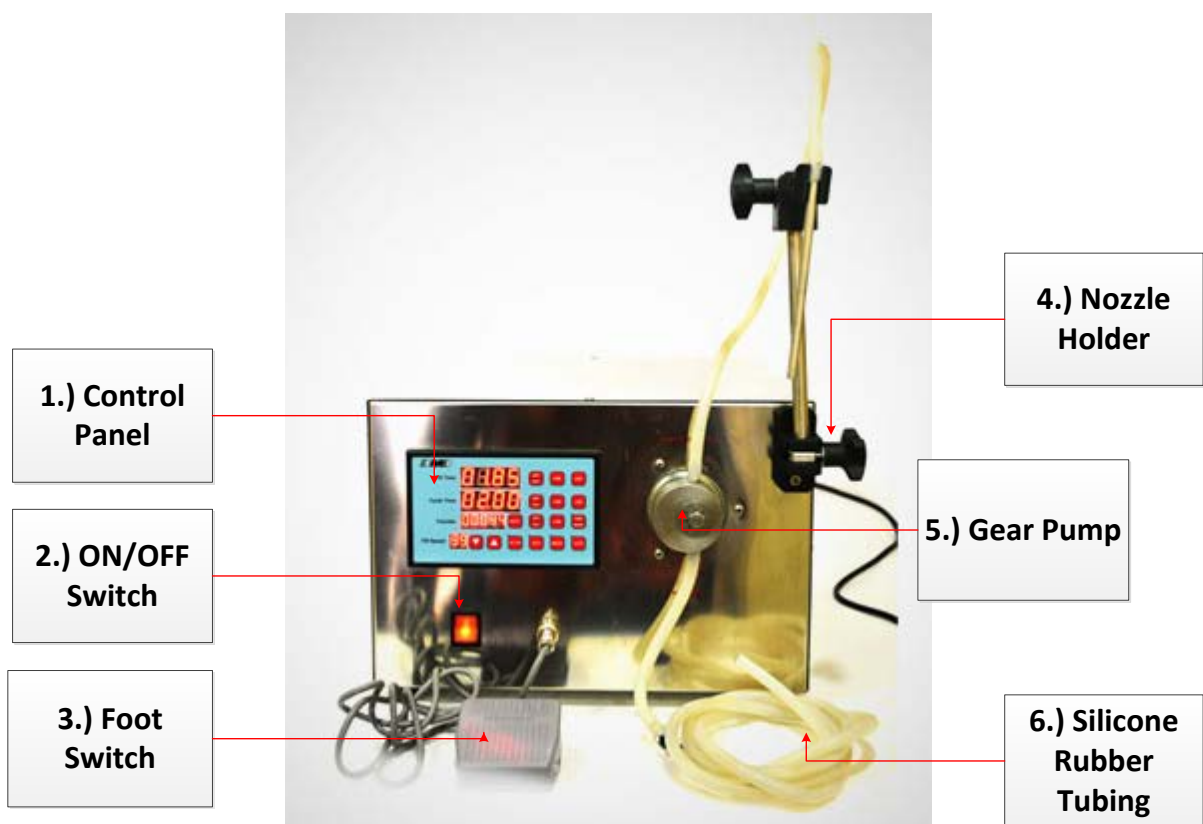


Figure 1: Component Descriptions 1-6



Figure 2: Control Panel Close-up



Figure 3: Check Valve Close-up

Note: This machine is suitable for clients with a production volume of up to 3000 bottles per day and can fill volumes ranging from 10 ml to 1000 ml. It can fill water-like substances as well as slightly thicker substances.

Starting Instructions

- Plug in the 3-pin socket into a 220V power supply
- Turn on the machine (Part No: 2)
- Before operating the machine, it is essential to circulate the material through the entire machine and tubing
- Place the inlet end of the silicone tube into the container holding the material to be filled
- Take a large measuring jug (1 liter) and place it under the nozzle
- Press the button called “Setting” on the control panel (Figure 2)
- This should turn on the gear pump (Part No: 5) and in about 10 seconds the liquid will begin to flow steadily out of the nozzle
- This signals that the material has been uniformly circulated throughout the machine

Operating Instructions

- In order to set the filling volume, a measuring flask/container is required
- Let us assume that a volume of 250 ml is to be filled at a fill speed of 99 (Figure 2)
- Place the measuring container below the nozzle and again press the “Setting” button on the control panel (Figure 2.0)
- Keep an eye on the volume and once it comes close to 250 ml click on the “Setting” button again to shut off the flow
- Note the exact volume and check whether it is greater than or less than 250 ml; after which look at “Fill Time” reading on the control panel
- Let us assume that the fill time was 4.5 seconds
- If the volume recorded was greater than 250 ml (say 260 ml) we will need a fill time of less than 4.5 seconds
- In order to set the fill time push the “Set/Exit” button; the left most digit on the panel will begin to blink
- Using the arrow button, we can shift between the digits
- By using the “Add” button the appropriate “Fill Time” value can be set
- Using these three buttons a value lower than 4.5 seconds (say 4.4) can be set and by using trial and error an appropriate time can be set such that exactly 250 ml of material falls into the measuring flask
- Similarly if the volume recorded would have been less than 250 ml (say 240 ml) the same procedure would have to be repeated but with a fill time of more than 4.5 seconds
- Having set the fill time, production can now commence
- There are two options for facilitating the filling process; namely by pressing the foot switch and by using the Auto mode

- For operation by foot switch (Part No: 3), the operator merely has to keep pressing the footswitch in order to start the filling process
- In the Auto mode the filling process automatically recommences after the “Cycle Time” period shown on the control panel
- This time can be adjusted in a manner identical to setting the filling time
- In order to activate the Auto mode, the operator has to push the button reading “Auto” on the control panel (Figure 2)

Precautions

- Always ensure that the check valve (shown in figure 3) is placed in a vertical orientation while filling
- Do not stomp on the foot switch, a gentle tap is all that is required
- Do not run the pump in dry state

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