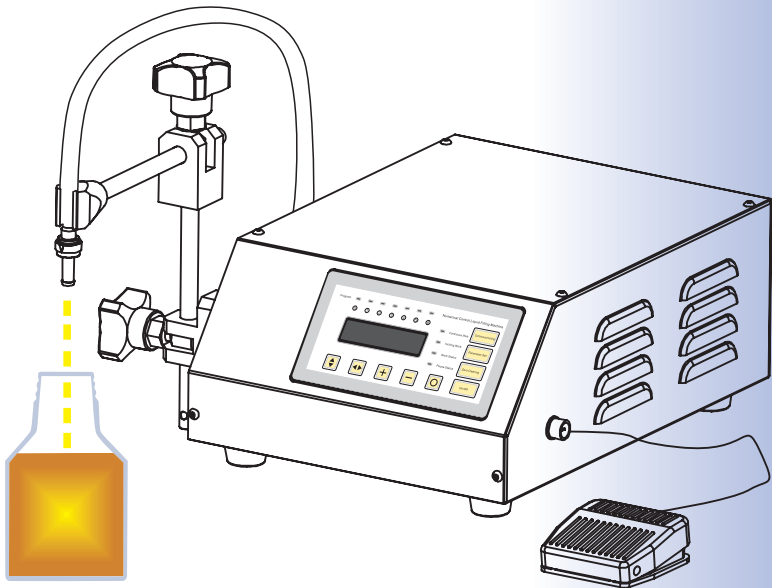


Manual Book

Numerical Control Liquid Filling Machine

GFK-160



DL-1011719Y

Please operate this machine strictly according to this manual.

1. Introduction

1.1 Appliance Range

GFK series numerical control liquid filling machine uses micro-computer to control the mini-pump on filling time and the rotation rate of electric motor so that the machine can fill the liquid fluently and at high accuracy. It is widely used in medical, chemistry, food, beverage, oil, and cosmetics, etc. It is suitable for filling low-viscous liquid without pellets.

Separated with the electric motor, the pump is made of a variety of anti-corrosion imported material. There is no mechanical metal part or abrasion inside the pump. The pump can stand oil, heat, acid, alkali, abrasion and chemical products. This pump integrates the advantage of self-suck pump and chemical pump. It can self suck, heat protect, stable working and continuous idle or load operate for long time.

About other functions, please consult the factory. The manufacturer will not be responsible for any damage due to improper operation. This kind of risk should be taken by the users. Strictly abiding by the manual book is a part of operation requirement.

1.2 Technical Parameter

Voltage:	AC180V – 260V
Power:	30W
Max Flow Rate:	3.2L/min
Max Suck Distance:	2m
Repeat Error:	< 0.5%

Package Dimension:	400 × 380 × 200 (mm)
Machine Weight:	5.5Kg
Filling Volume Range:	2ml – 3500ml
Anti-dripping Function:	Available
Memory Function without Electricity:	Available

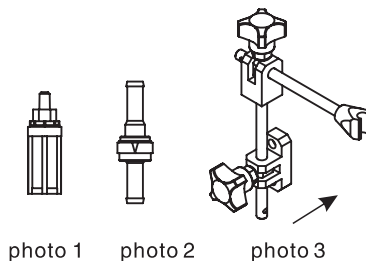
1.3 Characteristics

1. Imported single-chip control, high efficiency, low power consumption
2. Automatic counting, control the filling quantity effectively.
3. LCD display, touch screen panel is easy to operate.
4. Filling Accuracy is high, precise volume.
5. Wide voltage use range.
6. Product working performance is stable, long use life.
7. Self-suck function, don't need to pour.
8. Pump can stand the acid and alkali.
9. Anti-dripping design.
10. Reasonable construction design, stainless steel shell, meet GMP requirement.

2. Installation and Operation

2.1 Installation

Take the small filter (photo 1) out of the part, and install it below the feeding tube. Take the plastic filling nozzle out and install it in the feeding tube. (Notice the triangle head connects the discharge tube). Take out the filling-head stand and install it on the left of the machine as photo3 shows. Put the filling head in the clip and tighten it by socket wrench.



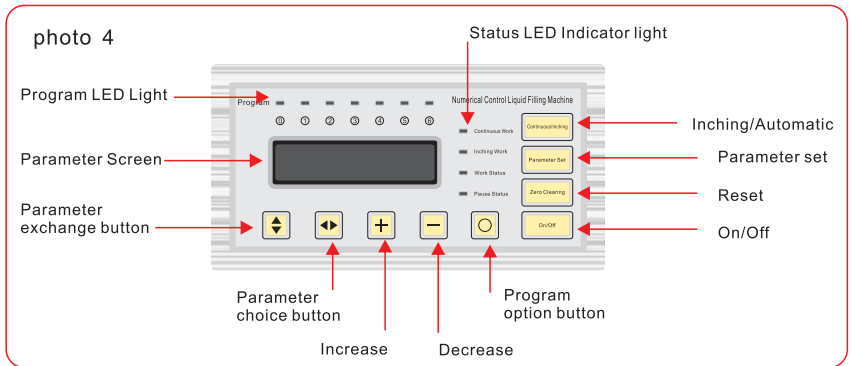
Connect the pedal switch with machine, and put the tube with filter below the liquid level inside the storage tank. The position of tank should be lower than the machine. Start to test the machine after all is ready.



The filter should be installed for the intake. The pump should not contain impurities or the pump will be blocked and the pressure will be not enough for water to come out.

2.2 Turn on

Switch on the machine, the LCD screen will show welcome words and the machine will be under standby status after 3 seconds. As photo4 shows, the screen shows filling quantity at the top left corner, filling speed at bottom left corner, once filling time at the top right corner, interval time at bottom right corner.



2.3 Adjustment

As photo 4 shows, if the machine is under working status, other buttons can't work. You can adjust the parameter after press the on/off button to let the machine under pause status.

Press program-option button, you can choose from 0-6. Choose Program 0, you can set the parameter by the four parameter-set keys. If you choose program 1-6, you should long press the parameter-set key. You can't set the parameter until the shining cursor appears. Press the parameter-set key to save the parameter after you finish the setting. Different filling volume choose different program. As the machine can automatically memorize the parameter, you don't need to repeat the setting.

Speed Parameter Range: 1-9, Filling Time Range: 0.01-99.99s, Interval Time Range: 0.01-99.99s.

There are inching and automatic filling, you can press the inching/automatic key to exchange. You need to install a pedal switch if you choose the inching way. Every filling needs to press the pedal switch, and the interval time is useless.

2.4 Measurement Proofreading

Press on/off button, the machine is under working status (light on). You can hear the water pump is running, and observe if there's water coming out from the nozzle. If the water can't come out for long time, you can dismantle the nozzle and install it again after the water coming out. If you choose the inching way for measurement proofreading, you can use measuring glass or electronic scale to continuously adjust the filling time and speed to meet the requirement. The normal work can be carried out after the measurement proofreading is done.

3. Maintenance

Clean the filter regularly, if the filter is blocked, it will influence the accuracy of the measurement. If the water pump is running, but there's no water or little water coming out, maybe there is impurity inside the pump. You can open and clean the water pump, and then tighten the screws.

4. Packing List

①	Power cord	1
②	Pedal Switch	1
③	Filling Stand	1
④	Filter	1
⑤	Filling Nozzle	1
⑥	Screwdriver	1
⑦	inner hexagonal wrench	1
⑧	Manual Book	1
⑨	Guarantee receipt	1
⑩	Quality Certificate	1

5. Maintenance Notes

We provide the free repair within half a year. We don't provide the warranty under the conditions as follows:

- ①The user damages the machine or parts due to he didn't operate the machine properly according to the instruction book.
- ②The user damages the machine because of improper operation of the machine.
- ③The components are damaged because the voltage is too high or too low.
- ④The model No. on warranty card and products doesn't match with the factory serial number.
- ⑤The machine is damaged because the user self-disassemble and repair the machine.
- ⑥The warranty card receipt did not return to the factory.
- ⑦Over the warranty period.

6. Quality certificate and warranty receipt

QUALITY CERTIFICATE

Product Name: _____
Model: _____
Serial Number: _____
Q.C. _____
Production Date: _____

This machine is qualified and permitted to deliver

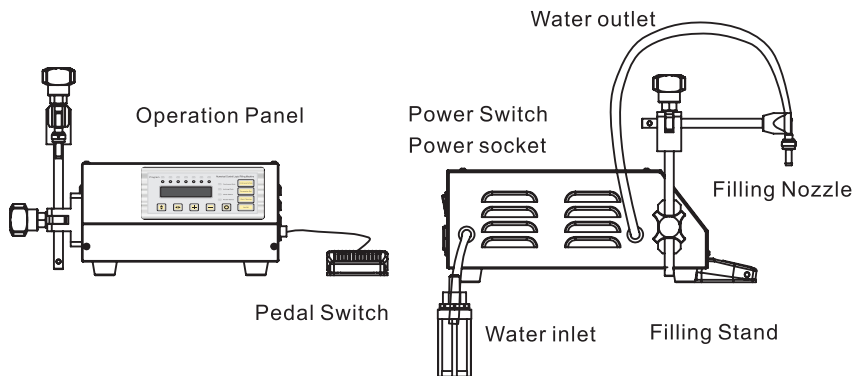
Warranty Receipt

Product Name: _____
Model: _____
Serial Number: _____
Purchase time: _____
Buyer's Name: _____
Address: _____
Tel: _____
Dealer's Name: _____

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Please send this receipt to manufacturer as a proof for free repair

7. Machine Sketch



Machine Size: 350 × 270 × 150 (mm)

Diameter of Filling Nozzle: ϕ 8mm

Please let us know if you need smaller nozzle.

Suitable Soft Tube: 17# (interior diameter: 6.4mm, thickness: 1.6mm, max pressure 0.24Mp)

Different liquid needs to choose different material of tube. The tube provided by us is silicone tube.