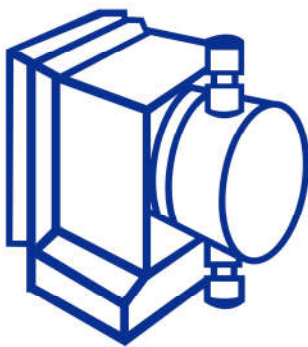


Instruction Manual
E Series
Electronic Metering Pump



For file reference, please record the following data:

Model No: _____

Serial No: _____

Installation Date: _____

Installation Location: _____

Carefully read and understand all precautions before installing or servicing any metering pump.



Qualified Operators Only

The pump must not be operated by untrained personnel. Pump operators must have a sufficient knowledge of the pump.



Protective Clothing

Always wear protective equipment when working near your pump. Refer to MSDS precautions from your solution supplier.



Ventilate

Dosing toxic or odorous media may result poisonings. Ensure the operating site with good ventilation.



Fittings and Machine Threads

All fittings should be hand-tightened.

Excessive tightened can cause damage to the fittings or pump head. Teflon tape may only be used on the NPT thread side of the injection check valve.

Make certain that all tube is securely attached to fittings prior to start-up. Check tube frequently for cracks and replace as necessary.



Electrical Connections

To reduce the risk of electrical shock, the pump must be plugged into a grounded outlet with ratings conforming to the data on the pump control panel, the pump must be connected to a good ground. All wiring must conform to local electrical codes.

1. Technical Data

E series is a PTFE diaphragm-type metering pump, stroke speed can be adjusted.

Metering reproducibility: $\pm 2\%$

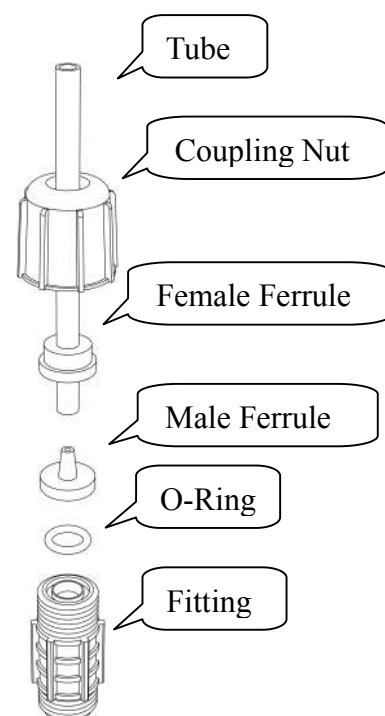
Electrical connection: $220V \pm 10\%$, 50/60Hz

Type of enclosure: IP55 Insulation class: F Power: $\leq 24W$

2. Pump Location and Installation

Locate pump in an area convenient to solution tank and electrical supply. The pump should be accessible for routine maintenance and must be mounted so that the suction and discharge valves are vertical.

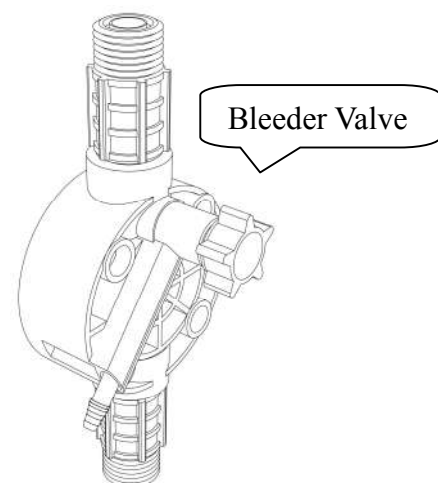
1. Insert Tube through Coupling Nut.
2. Position the Female Ferrule about one inch from end of Tube.
3. Push the Tube into the bottom of the Male Ferrule.
4. Firmly hand tighten the Coupling Nut onto the Fitting.



3. Start-up and Adjustment

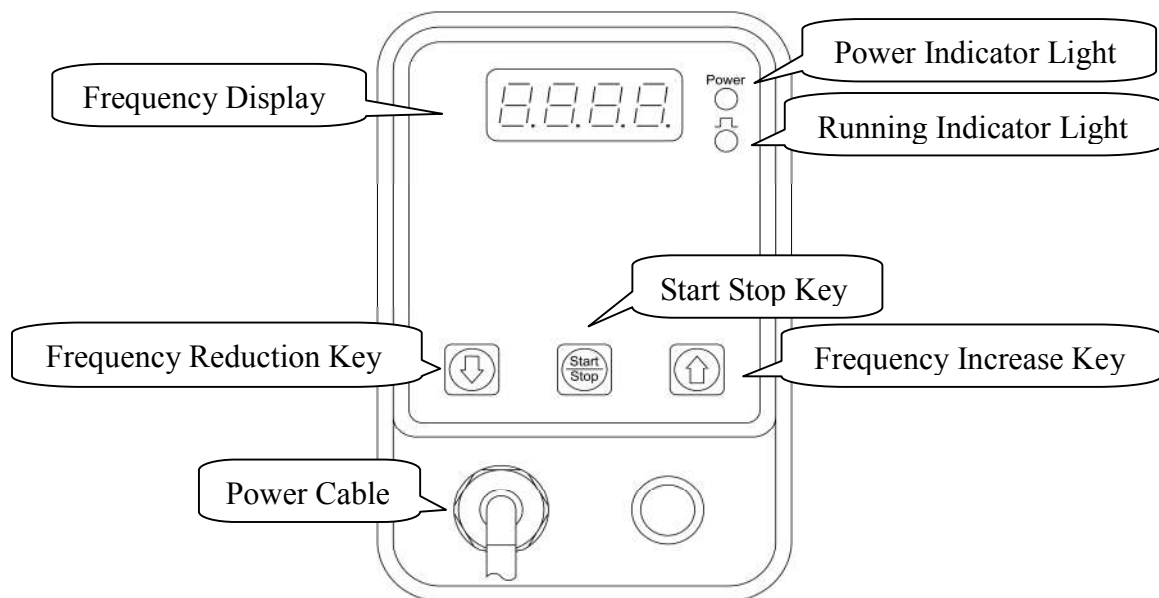
When all precautionary steps have been taken, the pump is mounted, and the tube is securely attached, you may now start priming the pump.

1. Plug in and switch the pump on.
2. When pump is running, set the pump frequency to 180 pulse/min.
3. Open the Bleeder Valve anticlockwise approx. 1 turn, the suction tube should begin to fill with solution from the tank, a small amount of solution will begin to discharge out the



bypass hose socket, once this happens, close the Bleeder Valve clockwise, the pump is now primed.

4. Flow Adjustment and Control Settings



Frequency Display: The first three digits display the working frequency of the pump, and the last one is the letter H. When the pump works normally, H is always on, and when the pump stop running, H flashes.

Power Indicator Light: When the pump is powered on, the power indicator light is always on.

Running Indicator Light: When the pump is running, the running indicator light flashes continuously according to the running frequency of the pump.

Start Stop Key: To start or stop the pump, press once to change the start or stop state.

Frequency Reduction Key: Reduce the operating frequency of the pump to reduce the delivery flow of the pump.

Frequency Increase Key: Increase the operating frequency of the pump to increase the delivery flow of the pump.

5. Troubleshooting

1. Replace metering diaphragm

Release the pump head screws and pull liquid end out, remove ruptured diaphragm, and replace a new diaphragm.

2. Low output or failure to pump against pressure

Except ruptured diaphragm, check the non-return valve.

3. No normal sound when pump working

Check the non-return valve and pipeline, if you can not solve the problem, please contact your supplier or factory.

4. Pump fail to run

Remove screws on the panel, replace the fuse, if you can not solve the problem after replace the fuse, please contact your supplier or factory.

Quality Certificate

We hereby declare that this product have been inspected and complies with relevant quality and safety stipulations laid down by our company, a qualified product will be included in our warranty.

Product name: E Series Electronic Metering Pumps

Manufacturer signature: