

SINGLE FLOW METER INSTRUCTIONS (SFM 3001)

1. First attach air filter to inlet (bottom) flow meter tubing.
2. Next attach the flow meter inlet tube (bottom tube) to gas tank and adjust both the flow meter and regulator (**2-4 psi**) on the gas tank to allow for a flow rate of **25-50 liters/min (LPM)**; flush for 2-4 minutes. It is recommended to flush 75-100 liters of gas through the MIC-101 to obtain a 100% exchange of gases (**Maximum flow rate is 50 LPM**). (*When Hot Filters are attached use 7 liters per minute of flow rate*). Rate of flow is read at the point of maximum horizontal width for spherical floats or at the top of the largest diameter for non-spherical floats. Control valves are turned clockwise to reduce flow, counter clockwise to increase flow. A nylon insert is provided in the threaded section of the valve stem to give a firm touch to the valve and to prevent change of setting due to vibration.
3. Now connect gas outlet tube (*top tube with clear plastic connector at end*) of the flow meter to the Modular Incubator Chamber in order to flush the Incubator. Pressure release valve in line with the flow meter will open if functional and safe flow rate is exceeded. The pressure release valve will automatically close when pressure is safe. **CAUTION: Excessive pressure and or flow rate will circumvent safety features of system and could result in damage to the system and personal injury.**
4. Disconnect the Incubator from the flow meter.
5. Finish sealing the Incubator by closing plastic clamps (white) of gas inlet and outlet ports on the Incubator (4-5 clicks). **ALWAYS CLOSE GAS INLET CLAMP FIRST** then outlet clamp.

CAUTION: Do not completely unscrew valve stem unless flow meter is un-pressurized. Removal while in service will allow gas to flow out front of valve body and could result in serious personal injury.

Maintenance: The only maintenance normally required is occasional cleaning to assure reliable operation and good float visibility.

Disassembly: The flow meter can be disassembled for cleaning by simply disconnecting the piping, dismounting the unit from the panel and removing the top plug-ball stop. Take out the ball or float by inverting the body and allowing the float to fall into your hand. (Note: It is best to cover the discharge port to avoid losing the float through that opening).

Cleaning: The flow tube and flow meter body can best be cleaned with a little pure soap and water. Use of a bottle brush or other soft brush will aid the cleaning. Avoid benzene, acetone, carbon tetrachloride, alkaline detergents, caustic soda, liquid soaps (which may contain chlorinated solvents), and avoid prolonged immersion.

Re-assembly: Reinstall the float, remount, connect and place the unit back in service. A little stop cock grease or petroleum jelly on the "O" rings will help maintain a good seal as well as facilitate assembly.

Conversion of gas tank volumes: 80 cu. ft. 2200 liters; 200 cu. ft. 5700 liters
