

Free Shipping at www.esseasongear.com



Milwaukee Instruments MA957 – CO2 Regulator Safety and Operation Instructions Manual

CYLINDER CARE

Secure cylinders so that they will not tip or fall.

Inspect the cylinder valves for damaged threads, dirt, oil, or grease. Remove dust and dirt with a clean cloth. **DO NOT ATTACH THE REGULATOR IF OIL OR GREASE IS PRESENT.** Oil and grease in the presence of high pressure oxygen is explosive

Crack open the cylinder valve for an instant to blow out any foreign matter in the throat of the cylinder.

Use Teflon tape on the threads of the cylinder before attaching the regulator, Failure to do this can result in the loss of gas.

REGULATOR ATTACHMENT AND USE

Attach the regulator to the cylinder valve placing the supplied plastic O-ring (not shown) between the regulator and the tank and tighten with a wrench. Omission of this O-ring will cause loss of gas.

Unscrew the large brass ring (G) from the bubble counter (H) and fill the bubble counter ½ full of fresh water. Be sure the needle valve (B) is closed before filling with water. Once filled replace the brass ring (G).

Before opening the cylinder valve turn the regulator adjustment knob (E) counter clockwise until tension is no longer felt on the knob. Do not fully remove the regulator flow adjustment knob. **IF THE CYLINDER VALVE IS OPENED WITH THE REGULATOR KNOB TURNED IN, DAMAGE TO THE REGULATOR DIAFRAM OR RIGHT GAUGE CAN RESULT!**

VERY SLOWLY and **CAREFULLY** open the cylinder valve **COMPLETELY** to seal the cylinder valve packing. The amount of gas in the cylinder can now be read on the high pressure gauge (D).

Plug the solenoid (C) into a suitable, grounded, AC wall outlet or into your Milwaukee SMS122 Controller. The solenoid uses slightly more than 6 watts and it is normal for it to feel warm during operation.

Open the needle valve **all the way open** (B) by turning it counter clockwise.

Turn the adjustment knob (E) clockwise until you get a reading on the low pressure gauge (F) of approx. 10 lbs or less on the inside set of numbers (psi). You should now see bubbles in the bubble counter. It is recommended that you use the bubble counter rather than the right gauge to determine your flow rate. **Only use the needle valve if you can not get exact flow from adjustment knob (E)**

Unplug the solenoid (C) from the wall or controller and unscrew the compression fitting and pass the air hose through the fitting and attach your air tubing (not provided in regulator) to the nipple (A). Be sure your air tube fits tightly on the nipple and is pressed all the way down. Slide the compression fitting onto the nipple and tighten.

Plug the solenoid (C) back into the wall outlet or pH controller unit and adjust the bubble count on your regulator using the adjustment knob (E) as described in previous adjustment step. Use the needle valve (B) for fine tuning the bubble count if it can not be accomplished with just the adjustment knob (E).

MAINTENANCE: At the time of a bottle change. Put the regulator on the new bottle and plug the solenoid into a wall socket, take the top off the bubble counter and turn up the pressure to blow out the system. This should only take a few seconds of high gas flow

Free Shipping at www.esseasongear.com

