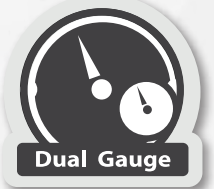




Dual Stage CO₂ REGULATOR

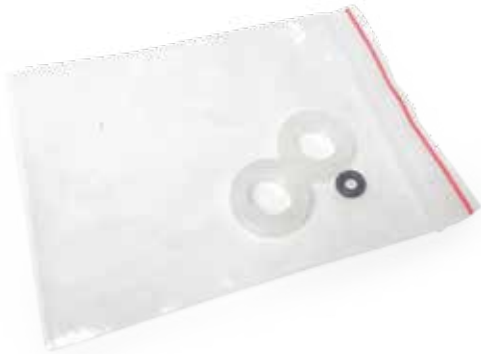
Bubble Counter / Solenoid Valve Kit



Assembly Instruction Guide

STEP 1

Unpack the CO2 valve, you will notice a small bag that contains a small and large seal. The large seal goes between the valve connection and the CO2 bottle. The small seal is just a spare in case you lose the O ring between the bubble counter and the valve.



STEP 2

Attach the CO2 valve to the bottle using the larger seal between the connection and the bottle. Do not over tighten! I normally use an adjustable wrench with a paper towel on the connection not to prevent scratches. Tighten in till the connection is snug.



STEP 3

Unscrew the top of the bubble counter, fill the bubble counter approximately halfway with either distilled/DI water or glycerin. You can find glycerin at a local drugstore. I normally use water. The bubble counter also acts as a check valve to prevent water from entering the main portion of the valve.



STEP 4

Connect the front portion of the valve, screwing it into position,



Do not torque down this valve.



STEP 5

Close the needle valve underneath the square portion of the valve.



STEP 6

Attach the solenoid, the small washer should be positioned so that the center of the washer is pointing down, hand tightened the small black nut. The warped washer helps keep the solenoid from vibrating.



If the solenoid makes noise for any reason just tighten up the black nut. Don't be afraid to tighten, but only by hand.



STEP 7

The solenoid can be plugged into a timer or pH controller, I always recommend a pH controller if possible. The solenoid will allow CO2 to flow only when plugged in.

STEP 8

Double check that the fine adjustment knob underneath the square portion of the valve is closed, open the valve on the CO2 bottle.

STEP 9

Adjust the front large knob on the CO2 valve to the desired output pressure. I normally set the pressure around 40 or below.



STEP 10

Use the fine adjustment/ needle valve underneath the square portion of the valve to adjust the output, you will notice that CO2 will start to bubble through the bubble counter. The needle valve will allow you to make very fine adjustments. Set your bubbles per minute.



If you suspect a leak use some soapy water in a small spray bottle to quickly check the source of the leak.