



Model Name: AQT-REG PREMIUM

CO₂

AQUATEK Premium CO₂ Regulator with Integrated Solenoid



Our Premium AQUATEK CO₂ Regulator with Integrated Solenoid is perfect for many CO₂ injection applications from green houses to aquariums. It has been shown that CO₂ enrichment at two, three, or four times the natural concentration will promote plant growth. The Aquatek Premium CO₂ regulator includes dual gauges (in both psi & kg/cm) and a needle valve for fine tuning the amount of CO₂ injection to maintain the desired level of CO₂ concentrations to achieve optimal plant growth.

FEATURES

- Cool-touch, industrial solenoid design
- Brass constructions for long-lasting durability and dependability
- Precision output working pressure adjustment knob: 140 PSI Max
- Precision needle valve for fine tuning release of CO₂
- Includes bubble counter with integrated check valve
- Compatible with most high density tubing
- Compatible with most CO₂ atomizer and diffuser
- 110 and 220 volt universal power design complete with 6-foot cable

WARNING

- 1) Never detach CO₂ regulator from CO₂ tank if it is under pressure. Close the tank valve and loosen the needle valve to release gas before detaching the regulator.
- 2) CO₂ tanks should always be placed on a flat surface and securely mounts to a permanent structure such as a wall or metal frame to prevent tipping and personal injury.
- 3) Keep CO₂ tank away from heat.
- 4) Please obey all state laws regarding transport, storage, and handling of CO₂.
- 5) CO₂ concentrations should be kept below 2,500 at all times. Concentrations above 5,000 PPM can be harmful.



INSTALLATION

- 1) CAUTION! It is important to ensure that the CO₂ tank does not contain any sediment prior to installing the regulator to prevent blockage. Typically, sediment can be extricated by slowly loosening the tank valve to open position for a few seconds and let the release of CO₂ gas blow out any potential sediment in the CO₂ tank, then tighten the tank valve.
- 2) Once sediment extrication process is completed and tank valve tightened, you can then install the regulator to the CO₂ tank. Aquatek CO₂ regulators include a plastic washer in the packaging, which must be placed in between regulator connector and the CO₂ tank connector to create a tight seal and reduce CO₂ leakage.
- 3) IMPORTANT: Whenever the regulator is attached to the CO₂ tank, be sure to loosen the tank valve slowly to prevent gauge blow out and damages to the inner seals of the regulator.
- 4) IMPORTANT: The CO₂ tank must be securely placed on a flat surface in an up-right position. Unsecured placement of CO₂ tank can cause the tank to tip over and lead to severe damage of the tank valve and/or regulator. Damaged CO₂ tank can also result in sudden release of high-pressure CO₂ gas.
- 5) Aquatek CO₂ regulators are equipped with CGA 320 connectors, offering a custom fit to standard U.S. CO₂ tanks.
- 6) Connect air tube to CO₂ regulator by unscrewing the nut all the way, fit one end of airline tube through the nut and fit it over the air outlet, and then tighten the nut down. Connect the other end of air tube to check valve / bubble counter.
- 7) Connect tube from check valve / bubble counter's outflow outlet to the calcium reactor or diffuser.
- 8) Plug the power cord of the solenoid valve to an AC outlet, a timer device or a pH controller.
- 9) Slowly open the main CO₂ tank valve (located on the top of the CO₂ cylinder). Do not open the main valve all the way, a couple of turns should provide enough outflow.
- 10) Both the output pressure adjustment knob and the needle valve can be used to adjust CO₂ flow rate. However, the higher the output pressure (based on the reading of working pressure gauge), the harder it is to fine tune the CO₂ flow rate by adjusting the needle valve.

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