

FZ-1011

USER'S MANUAL

MULTI STAGE CO2 REGULATOR

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SAFETY INSTRUCTIONS

Please read the following safety instructions thoroughly before attempting to use this product. Failure to read and follow safety instructions can result in serious injuries and/or accidents.

WARNING

- Before installation of the regulator, ALWAYS inspect for damaged threads, dirt, dust, oil or grease.
- Remove dust, dirt, oils or grease with a dry, clean cloth. DO NOT MOVE FORWARD OR ATTACH THE REGULATOR IF OIL, GREASE, OR DAMAGE IS PRESENT!
- A leak at the valve or regulator can cause asphyxiation.
- DO NOT use oil or lubricants of any kind on cylinders, valves, gauges, regulators or any other non-gas associated fittings. Doing so is dangerous and can result in serious injury.
- DO NOT disassemble regulator.
- CO2 cylinders being used must be recertified (hydro-tested) every five (5) years from the date of manufacture. The manufacture date can be found on the cylinder's shoulder.
- DO NOT attempt to fill a CO2 cylinder yourself. Take any cylinders to a certified and licensed CO2 supplier for refills.

SAFETY

- Attach the regulator to the cylinder valve and tighten regulator nut with a wrench.
- Before opening the main CO2 cylinder valve (applicable for standard CGA-320 only), adjust the pressure knob by turning it counter-clockwise until it is completely off. This is indicated by the "-" sign.
- Position yourself safely beside the cylinder that is opposite from the regulator when opening the cylinder's main valve. Slowly and carefully open the main CO2 cylinder valve.
- To check for leaks, start by closing the cylinder's main CO2 valve. Next, adjust the pressure knob by turning it counter-clockwise until it is completely shut. Now you may check for leaks using an approved leak detector solution (or soap and water). If a leak is detected or suspected, shut off the regulator and contact your Fzone dealer immediately.

Note: The operating temperature range shall be no greater than 150° F (70°C) and no less than 0°F (-18°C). Use 15-20 foot pounds of torque for assembly. Always leak test connections before use. If temperature is 40°F or below, extra heat may be required to maintain tank pressure. Do not place near extreme heat sources.

IMPORTANT! USE THIS REGULATOR ONLY FOR CO2!

USAGE GUIDE

Before usage and installation, thoroughly inspect the unit for any defects, damages or missing parts. If a part is missing or damaged, contact your Fzone dealer immediately.

- Ensure that all parts of the regulator are secured tightly.
- If dust is visible, remove with a clean cloth.
- Once regulator is attached to CO2 cylinder, keep CO2 system standing upright.
- Double check all power connections to ensure they are connected properly and securely.
- Turn pressure and needle valve knobs down completely before powering on.

APPLICATION GUIDE

The Fzone Mini Regulator can be used on numerous CO2 cylinders depending on user preference. Applications include standard CGA-320 cylinders, paintball cylinders, and 80-95g 5/8" threaded interface disposable cartridges. The performance of the regulator will not change based on application.

To better understand the different applications of this regulator, refer to the diagrams provided on the following page.

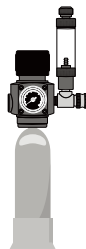
STANDARD CGA-320 CYLINDER
with gauge and bubble counter
facing upwards



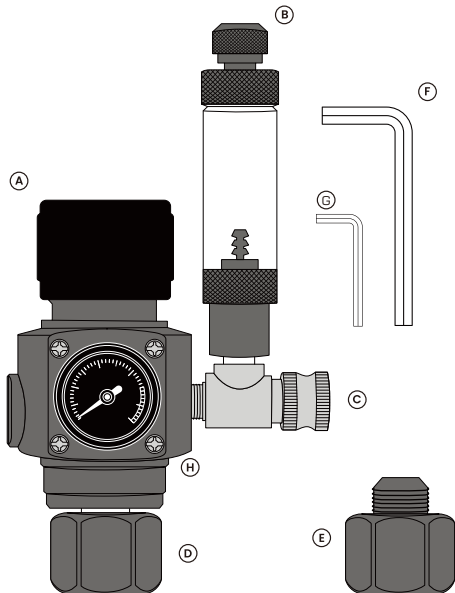
PAINTBALL CO2 CYLINDER
with included adapter



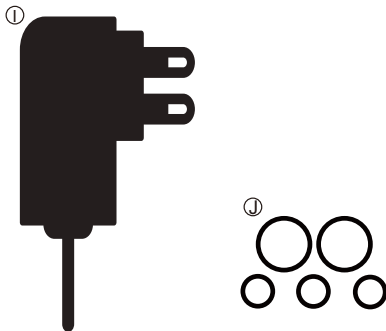
DISPOSABLE CO2 CARTRIDGE
with pre-attached CGA-320
adapter removed



PACKAGE CONTENTS

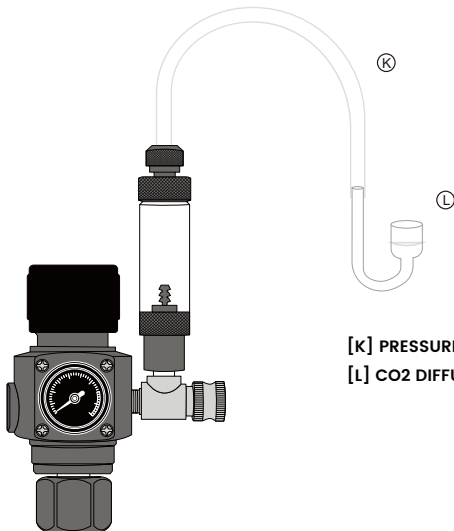


- [A] PRESSURE ADJUSTMENT KNOB
- [B] BUBBLE COUNTER WITH BUILT-IN CHECK VALVE
- [C] NEEDLE VALVE
- [D] CGA-320 ADAPTER
- [E] PAINTBALL ADAPTER
- [F] ALLEN KEY, FOR CGA320 ADAPTER
- [G] ALLEN KEY, FOR NEEDLE VALVE LOCKING
- [H] NEEDLE VALVE LOCKING HOLE
- [I] POWER ADAPTER
- [J] Extra O RINGS



ADDITIONAL ACCESSORIES

For a complete planted aquarium CO₂ injection system, the following additional CO₂ accessories are required. We recommend using Fzone CO₂ accessories for best results.



[K] PRESSURE-PROOF CO₂ TUBING

[L] CO₂ DIFFUSER

SETUP GUIDE

Please follow the instructions below for safe CO2 regulator setup:

1. Turn Pressure Knob counter-clockwise all the way down AND Needle Valve clockwise all the way down. This is indicated by the "-" AND "OFF" sign respectively.

2. Ensure that the adapter (CGA-320 or Paintball) of choice is tightened down correctly. Then, attach regulator securely to CO2 cylinder of choice.

Note: If you are using this regulator on a disposable CO2 Cartridge, please remove any attached adapter and an sealing o ring in the regulator.

3. Ensure that the Bubble Counter is secure and tightened. Then, fill Bubble Counter chamber with water from the top.

Note: Pressure-Proof CO2 Tubing should be attached during this time.

4. Connect the Power Plug to the regulator solenoid cable, then to a power outlet.

5. Open the flow of gas from CO2 cylinder all the way (applicable for standard CGA-320 CO2 cylinders only).

6. Turn the Pressure Knob clockwise to adjust the working pressure.

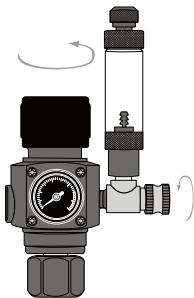
Note: Suggested working pressure is 25 PSI.

7. Adjust Needle Valve counter-clockwise to desired CO2 output.

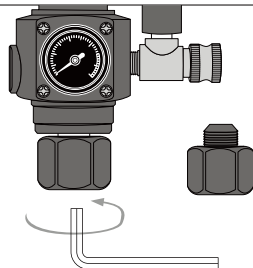
8. CO2 bubbles should now be visible in the Bubble Counter chamber.

IMPORTANT! Double check that any and all additional CO2 accessories are attached securely before operation. If unsure, check and repeat instructions.

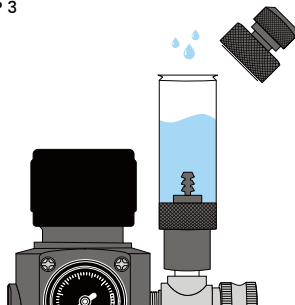
STEP 1



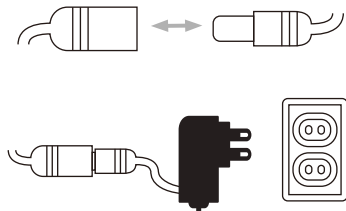
STEP 2



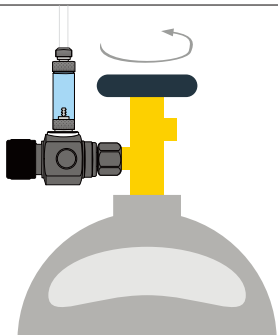
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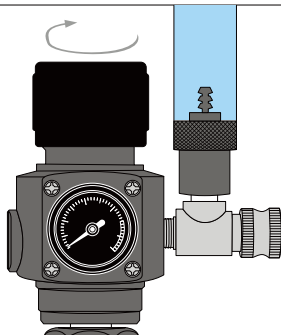
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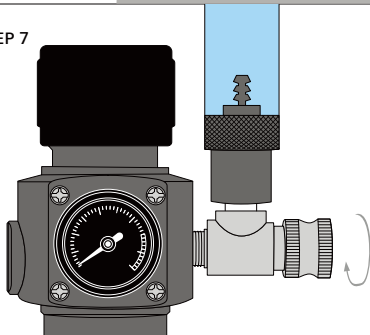
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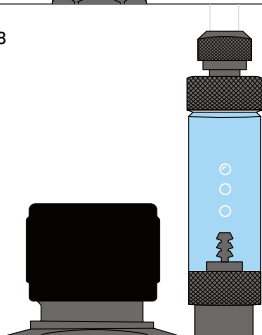
STEP 6



STEP 7



STEP 8





FZONE STUDIO

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THIS PRODUCT IS INTENDED FOR AQUARIUM USE ONLY. KEEP AWAY FROM CHILDREN.