

You said: CO2 HEATED REGULATOR

A **CO2 heated regulator** is a specialized gas control valve equipped with an electric heating element to prevent the regulator from freezing during high-flow or continuous operations. When compressed carbon dioxide expands from high tank pressure to a lower working pressure, a severe drop in temperature occurs—known as the Joule-Thomson effect.

This dramatic cooling can cause moisture in the air or the gas itself to freeze, which clogs the valve, disrupts the flow rate, and can ruin

You said: CO2 HEATED REGULATOR

A **CO2 heated regulator** is a specialized gas control valve equipped with an electric heating element to prevent the regulator from freezing during high-flow or continuous operations. When compressed carbon dioxide expands from high tank pressure to a lower working pressure, a severe drop in temperature occurs—known as the Joule-Thomson effect. This dramatic cooling can cause moisture in the air or the gas itself to freeze, which clogs the valve, disrupts the flow rate, and can ruin equipment. [[1](#), [2](#), [3](#), [4](#), [5](#)]

## Key Applications

- **MIG/MAG Welding:** Ensures a stable, uninterrupted supply of shielding gas to protect the weld pool from contamination.
- **Industrial & Fabrication Units:** Keeps heavy-duty gas setups running continuously in cold or high-humidity environments.
- **Beverage & Carbonation Systems:** Reliably manages gas delivery for commercial soft drink or brewery equipment without flow interruptions