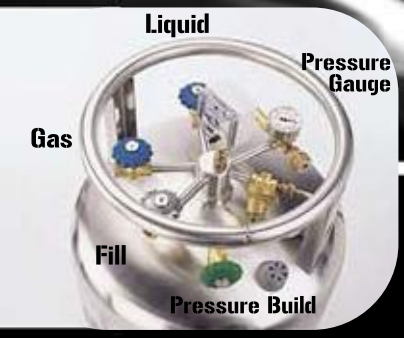
• CO2 Info
• Tank Options

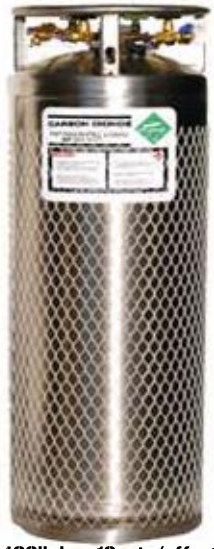


The top of a dewar tank has many ports and valves as shown to the left. The Pressure Gauge informs you of the pressure the tank is currently at. The Pressure Build Valve is used to build pressure back up in the tank when it gets low due to use. The Gas Valve/Port is used if you want CO2 Gas (normally for beverage machines). The Liquid Valve/Port is what is used in Cryo Special Effects applications. The Fill Valve/Port is used to refill the tank.

Low Pressure Dewar CO2 Tanks are available in many sizes ranging from 175lbs to 400lbs. They are much larger than high pressure tanks & weigh much more. Dewar tanks have a pressure building mechanism which slowly builds pressure back up to 350psi when pressures drop from use. The top of the tank can be confusing as there are many ports and valves. To the left, these are explained.

Dewar Tanks will supply more CO2, and tend to output a thicker cloud of CO2, compared to the High Pressure Tanks. Although the Dewar Tanks here are referred to as Low Pressure, the same tank may be called a High Pressure Dewar since "Dewars" rang from low pressures to high pressures (350psi), so within a "Dewar" category, they are "High" Pressure but in the overall CO2 Tank Category they are "Low" Pressure.

Low Pressure CO_2 Dewar Tank



400lb has 10 min/effect

In general, there are two main types of CO2 Tanks; a Low Pressure Tank and a High Pressure Tank. The names are relevant to the pressure contained within the tank. There are similarities, but also many differences. The basics are covered below, starting with a Low Pressure Tank first. Note: You may hear the phrase "High Pressure System" or "Low Pressure System" being used. These two phrases indicate what type of CO2 Tanks are being used. So a "High Pressure System" would use a high pressure tank and a "Low Pressure System" would use a low pressure tank. CryoFX CO2 Jets/Systems are interchangable with both High & Low Pressure Tanks unless specifically noted on product manual.

High Pressure CO2 Tanks are available in many sizes as depicted below. They are smaller and weigh less than Dewar Tanks, which make for easier maneuverability. High Pressure tanks do not have a pressure building mechanism so once the pressure is gone, the tank is empty. High Pressure tanks can be connected together on the same line as the pressure will not increase, but the volumn of CO2 will.

High Pressure tanks come in two options: Standard Tank and Siphon Tank. For Special Effects uses, a Siphon Tank is needed as the Siphon has a tube that dips down the center, as shown to the right. Although not recommended, a Standard tank (without a siphon tube) can be used by turning it upside down. This method is used with the portable "CO2 Backpack" as the backpack only uses inverted Standard Tanks.

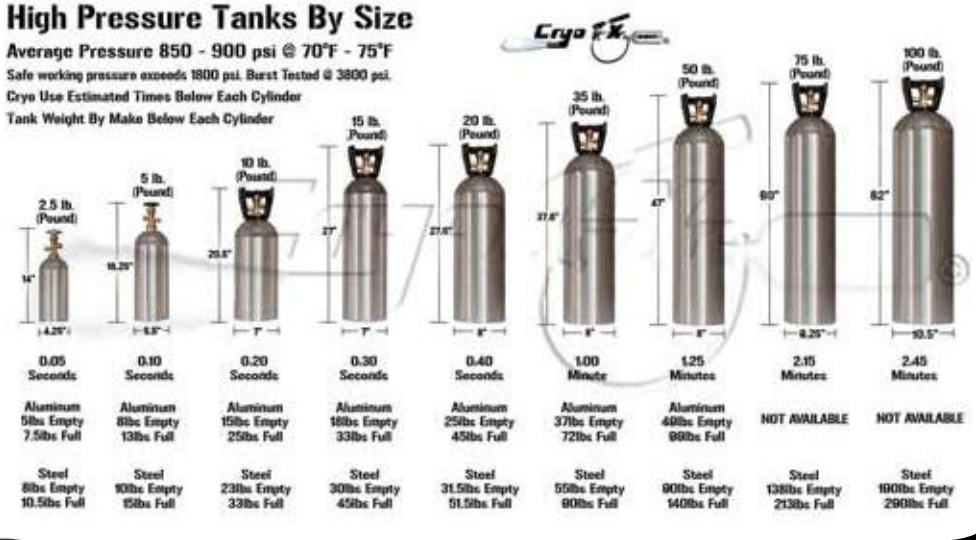
High Pressure Tanks By Size

Average Pressure 850 - 900 psi @ 70°F - 75°F

Safe working pressure exceeds 1800 psi. Burst Tested @ 3800 psi.

Cryo Use Estimated Times Below Each Cylinder

Tank Weight By Make Below Each Cylinder



High Pressure Siphon Tube CO2 Tanks look the same as a standard CO2 tank, but internally they are different. As the name states, a "Siphon" tank has a tube that dips down the center to "Siphon" the liquid CO2 & disperse the liquid out of the valve. High Pressure Tanks only come 63% full to leave room for gas to liquid change, which is affected by temperature.

High Pressure Siphon tanks come in both aluminnum and steel. Another name for these tanks is "Dip Tube" tank. The Siphon Tanks cannot be used upside down, like the standard tanks can. Siphon Tanks only output liquid CO2 and will output Gas CO2 just before the tank is empty.

High Pressure CO_2 Tank