

PURE GASES

CARBON DIOXIDE CO₂

General Characteristics: A colorless, nonflammable, liquefied and odorless gas.
Health Hazards: In high concentrations can paralyze the respiratory center.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
SCIENTIFIC GRADE Min. Purity 99.9995% O ₂ < 0.5 ppm, N ₂ < 2 ppm, H ₂ O < 2ppm, CH ₄ < 1 ppm, Organics <0.1ppm	AL150	40 lbs	Stainless-steel high purity single-stage regulator, refer to page 144
	AL6	100 L	
	LB	50 L	
SUPERCRITICAL GRADE Min. Purity 99.9995%	AL150	40 lbs	• SFC/SFE care package kit, refer to page 54
	Equipped with a full length eductor tube for liquid withdrawal. Pressurized with Helium on request. The sum of N ₂ , O ₂ , CO and CH ₄ < 100 ppm		
RESEARCH GRADE Min. Purity 99.99%*	049	70 lbs	Single-stage high purity regulator, refer to page 136
	044	60 lbs	
	016	18 lbs	
HIGH PURITY Min. Purity 99.9%* Oil ≤ 5 ppm, Oxygen < 10 ppm, H ₂ O < 10 ppm, CO < 1 ppm	049	70 lbs	High purity lecture bottle regulator, refer to page 148
	044	60 lbs	
	016	18 lbs	
INDUSTRIAL GRADE Min. Purity 99.8% (Provided with Eductor Tube for	049	70 lbs	* For high flow application: gas heater or laminated aluminium regulator, please ask our representative.
	044	60 lbs	
	016	18 lbs	
	LB	0.5 lb	

* Liquid Phase

TECHNICAL INFORMATION

Molecular Weight	44.01	Dot Name	Carbon Dioxide
Specific Volume	8.74CF/lb	UN No.	UN1013
Fire Potential	Nonflammable	Dot Class	2.2
TLV-TWA	5000 ppm (ACGIH 1991-1992)	Dot Label	Nonflammable Gas
CGA Valve	320	Cas Registry	124-38-9
LB	180	Cylinder Pressure @ 70°F	830 psig

CARBON MONOXIDE CO

General Characteristics: A colorless, flammable and odorless gas.
Health Hazards: Toxic, binds irreversibly to the hemoglobin in the blood. Normally causes a headache as the first symptom.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
RESEARCH GRADE Min. Purity 99.999% O ₂ < 2 ppm, N ₂ < 2 ppm, H ₂ O < 1 ppm, H ₂ < 1 ppm, THC < 2 ppm, Ar < 2 ppm	044	175 CF	Double-stage high purity regulator, refer to page 137
	016	66 CF	
	LB	2 CF	
ULTRA HIGH PURITY Min. Purity 99.97%, O ₂ < 10 ppm, N ₂ < 20 ppm, THC < 10 ppm	044	175 CF	High Purity lecture bottle regulator, refer to page 148
	016	66 CF	
	LB	2 CF	
C.P. GRADE Min. Purity 99.5%	049	260 CF	
	044	175 CF	
	016	66 CF	
	008	26 CF	
	LB	2 CF	
TECHNICAL GRADE Min. Purity 99.0%	044	175 CF	

TECHNICAL INFORMATION

Molecular Weight	28.01	Dot Name	Carbon Monoxide
Specific Volume	13.7CF/lb	UN No.	UN1016
Fire Potential	12.5 - 74% in Air	Dot Class	2.1
TLV-TWA	50 ppm (ACGIH 1991-1992)	Dot Label	Poison Gas, Flammable Gas
CGA Valve	350	Cas Registry	630-08-0
LB	180		