

## Carbon Monoxide (CO)

- Other balance gases and cylinder sizes are available upon request.
- Concentrations over 2.8% in Air are provided at reduced and volume.
- Steel cylinders available at reduced pressure and volume.
- Batch Analysis: order quantities of 6 or more cylinders.

Carbon Monoxide in Air			Pricing Reference Number			Equipment Recommendations		
Concentration	Cylinder Size	Contents ft <sup>3</sup>	Primary Standard	Certified Standard	Batch Analysis	Description Product Number	Delivery Pressure Range (psig)	Page Number
1 - 99 ppm	150A	148	AIEPCMA	AIECCMA	N/A	Two-Stage Regulators Y12-N145 *590 Y12-244 *590	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E14 E11
	80A	80	AIFPCMA	AIFCCMA	N/A			
	33A	33	AIGPCMA	AIGCCMA	N/A			
100 - 9999 ppm	150A	148	AIEPCMB	AIECCMB	N/A	Single-Stage Regulators Y11-N145 * 590 Y11-244 * 590		E13 E10
	80A	80	AIFPCMB	AIFCCMB	N/A			
	33A	33	AIGPCMB	AIGCCMB	N/A			
1 - 2.8%	150A	129	AIEPCMC	AIECCMC	N/A			
	80A	70	AIFPCMC	AIFCCMC	N/A			
	33A	29	AIGPCMC	AIGCCMC	N/A			

Not available in Air over 6.25%.  
Primary Standards available for concentrations greater than 5 ppm.  
Standard Valve Outlet: CGA 590  
Certificate of Analysis included.

\* Insert Delivery Pressure Range Code  
\*\* Single Stage Only

Carbon Monoxide in Helium			Pricing Reference Number			Equipment Recommendations		
Concentration	Cylinder Size	Contents ft <sup>3</sup>	Primary Standard	Certified Standard	Batch Analysis	Description Product Number	* Delivery Pressure Range (psig)	Page Number
1 - 99 ppm	150A	133	HEEPCMA	HEECCMA	HEEBCMA	Two-Stage Regulators Y12-N145 * 350 Y12-244 * 350	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E14 E11
	80A	71	HEFPCMA	HEFCCMA	HEFBCMA			
	33A	30	HEGPCMA	HEGCCMA	HEGBCMA			
100 - 9999 ppm	150A	133	HEEPCMB	HEECCMB	HEEBCMB	Single-Stage Regulators Y11-N145 * 350 Y11-244 * 350		E13 E10
	80A	71	HEFPCMB	HEFCCMB	HEFBCMB			
	33A	30	HEGPCMB	HEGCCMB	HEGBCMB			
1 - 50%	150A	133	HEEPCMC	HEECCMC	HEEBCMC			
	80A	71	HEFPCMC	HEFCCMC	HEFBCMC			
	33A	30	HEGPCMC	HEGCCMC	HEGBCMC			

Primary Standards available for concentrations greater than 5 ppm.  
Standard Valve Outlet: CGA 350  
Certificate of Analysis included.

\* Insert Delivery Pressure Range Code  
\*\* Single Stage Only

You'll find it with us—a wide range of specialty gas equipment designed especially for gas mixtures.



Pictured: Y12-N145

## Carbon Monoxide (CO) Cont.

- Other balance gases and cylinder sizes are available upon request.
- Steel cylinders available at reduced pressure and volume.
- Batch Analysis: order quantities of 6 or more cylinders.

Gas Mixtures

Carbon Monoxide in Hydrogen			Pricing Reference Number			Equipment Recommendations		
Concentration	Cylinder Size	Contents ft <sup>3</sup>	Primary Standard	Certified Standard	Batch Analysis	Description Product Number	* Delivery Pressure Range (psig)	Page Number
1 - 99 ppm	150A	133	HYEPCMA	HYECCMA	HYEBCMA	<b>Two-Stage Regulators</b> Y12-N145 * 350 Y12-244 * 350  <b>Single-Stage Regulators</b> Y11-N145 * 350 Y11-244 * 350	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E14 E11
	80A	71	HYFPCMA	HYFCCMA	HYFBCMA			
	33A	30	HYGPCMA	HYGCCMA	HYGBCMA			
100 - 9999 ppm	150A	133	HYEPCMB	HYECCMB	HYEBCMB			
	80A	71	HYFPCMB	HYFCCMB	HYFBCMB			
	33A	30	HYGPCMB	HYGCCMB	HYGBCMB			
1 - 50%	150A	133	HYEPCMC	HYECCMC	HYEBCMC			
	80A	71	HYFPCMC	HYFCCMC	HYFBCMC			
	33A	30	HYGPCMC	HYGCCMC	HYGBCMC			

Primary Standards available for concentrations greater than 5 ppm.  
Standard Valve Outlet: CGA 350  
Certificate of Analysis included.

\* Insert Delivery Pressure Range Code  
\*\* Single Stage Only

Carbon Monoxide in Nitrogen			Pricing Reference Number			Equipment Recommendations		
Concentration	Cylinder Size	Contents ft <sup>3</sup>	Primary Standard	Certified Standard	Batch Analysis	Description Product Number	Delivery Pressure Range (psig)	Page Number
1 - 99 ppm	150A	146	NIEPCMA	NIECCMA	NIEUCMA	<b>Two-Stage Regulators</b> Y12-N145 * 350 Y12-244 * 350  <b>Single-Stage Regulators</b> Y11-N145 * 350	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E14 E11
	80A	78	NIFPCMA	NIFCCMA	NIFUCMA			
	33A	33	NIGPCMA	NIGCCMA	NIGUCMA			
100 - 9999 ppm	150A	146	NIEPCMB	NIECCMB	NIEUCMB			
	80A	78	NIFPCMB	NIFCCMB	NIFUCMB			
	33A	33	NIGPCMB	NIGCCMB	NIGUCMB			
1 - 50%	150A	146	NIEPCMC	NIECCMC	NIEUCMC			
	80A	78	NIFPCMC	NIFCCMC	NIFUCMC			
	33A	33	NIGPCMC	NIGCCMC	NIGUCMC			

Primary Standards available for concentrations greater than 5 ppm.  
Standard Valve Outlet: CGA 350  
Certificate of Analysis included.

\* Insert Delivery Pressure Range Code  
\*\* Single Stage Only

Technical Data & Shipping Information	
Cylinder Pressure:	
Aluminum	2000 psig
Steel	1650 psig
U.S. DOT Class:	
CO In Air, or ≤ 11.1% in He or ≤ 20% in N <sub>2</sub>	2.2
In H <sub>2</sub> and All Others	2.1
U.S. DOT Label:	
CO In Air, or ≤ 11.1% in He or ≤ 20% in N <sub>2</sub>	Nonflammable Gas
In H <sub>2</sub> and All Others	Flammable Gas
ID Number:	
CO In Air, or ≤ 11.1% in He or ≤ 20% in N <sub>2</sub>	UN1956
In H <sub>2</sub> and All Others	UN1954