

A Division of **MESA** International Technologies, Inc

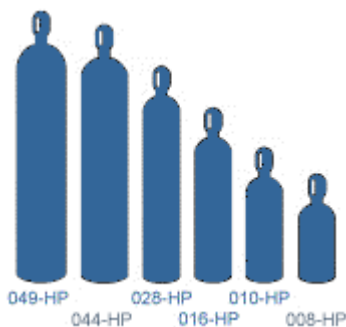
Dangerous Goods Restrictions may apply ! ASK !
@ Prohibitive AirFreight Costs(?) > Or by Sea Import ONLY !
Australian Distributors

Gas Cylinder Dimensions & Specifications

Professionals in the gas industry need to ensure their readings remain accurate, whether they use a gas analyzer or detector. We at MESA Specialty Gases provide a wide variety of these necessary specialty gas and calibration gas cylinders to guarantee accurate readings. Take a look at our most common gas cylinder dimensions and specifications available below.

If you are interested in disposable calibration gas, check out our [disposable calibration gas](#) web site for product details. We also offer a stock of BTU specialty gas mixtures, Natural gas standards and RGA mixtures available for immediate delivery. Take a look at our [RGA and BTU standards](#) page for details.

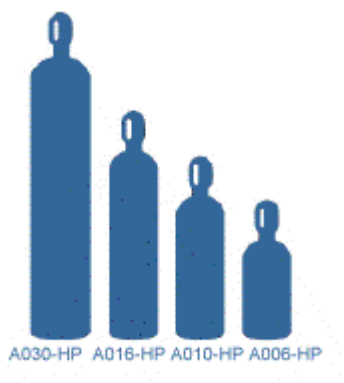
Don't hesitate to contact our customer service representatives about our selection of gas cylinder dimensions and specifications.



High Pressure Steel to 2640 psi				
Cylinder Designation	Water Capacity (liters)	Diameter (inches)	Height w/ Valve (inches)	Nominal Shipping Weight(lbs)*
049-HP	49-50	9.25	60	150
044-HP	43-44	9.00	56	125

Gas Cylinder Dimensions & Specifications

High Pressure Steel to 2640 psi				
Cylinder Designation	Water Capacity (liters)	Diameter (inches)	Height w/ Valve (inches)	Nominal Shipping Weight(lbs)*
028-HP	27-28	7.00	47	70
016-HP	16-17	7.00	36	53
010-HP	10-11	7.00	28	38
008-HP	7-8	7.00	23	31
*includes estimated weight of contents				

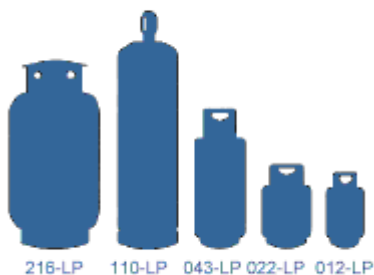


High Pressure Aluminum to 2200 psi				
Cylinder Designation	Water Capacity (liters)	Diameter (inches)	Height w/ Valve (inches)	Nominal Shipping Weight(lbs)*
A030-HP	29-30	8.00	53	65
A016-HP	15-16	7.25	38	45
A010-HP	10-11	7.25	29	32
A006-HP	5-6	7.00	21	22
*includes estimated weight of contents				

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Gas Cylinder Dimensions & Specifications



Low Pressure Steel and Aluminum 240 psi				
Cylinder Designation	Water Capacity (liters)	Diameter (inches)	Height w/ Valve (inches)	Nominal Shipping Weight(lbs)*
Low Pressure Steel Cylinders				
216-LP	216-217	24.00	40	175
110-LP	108-110	15.00	50	75
065-LP	64-65	12.00	43	46
043-LP	43-44	12.00	29	30
028-LP	27-28	9.00	35	28
022-LP	21-22	12.00	18	20
012-LP	11-12	9.00	17	15
Low Pressure Aluminum Cylinders				
A022-LP	21-22	12.00	18	13
A012-LP	11-12	9.00	17	10
*includes estimated weight of contents				

Gas Cylinder Dimensions & Specifications

Disposable and Transportable

Cylinder Designation	Material	Outlet Fitting	Service Pressure (psi)	Gas Contents (liters)	Diameter (inches)	Height (inches)
14L	Steel	CGA-160*	240	14	3	10
17L	Steel	CGA-600	240	17	3	11
20L	Steel	CGA-160	240	20	3	13
LB	Steel	CGA-170/180	1800	55	2	15
103L	Steel	C-10**	1000	103	3	14

Disposable and Transportable						
Cylinder Designation	Material	Outlet Fitting	Service Pressure (psi)	Gas Contents (liters)	Diameter (inches)	Height (inches)
550L	Steel	***	2200	550	4	24
A34L	Aluminum	C-10**	500	34	3	11.5
A58L	Aluminum	C-10**	500	58	3.5	14.5
A76L	Aluminum	C-10**	500	76	4	14.5
A116L	Aluminum	C-10**	1000	116	4	14.5
* CGA-160 = Same as 1/8; FNPT ** C-10 5/8;-18UNF *** Standard CGA outlet depends on gas composition						

Quality

It is the guiding principle of MESA Specialty Gas and equipment to offer only the highest quality calibration gas products to our customers.

Service

We recognize that only excellent customer service will allow our growth in this highly competitive calibration gas industry.

Support

MESA Specialty Gas offers technical support through top experts in the field. Let us know how we can assist you.

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Disposable Gas Calibration Standards

Steel Cylinders

Browse MESA Specialty Gases & Equipment's selection of disposable gas cylinders for sale. Choose from a variety of disposable cylinders. Each cylinder is pre-prepared and ready for immediate use. We also offer customized options to meet your specific requirements. If you have any questions about our disposable gas cylinders, please give us a call today.

17L Disposable Calibration Gas Cylinder


The 17 liter cylinder is light and portable, primary use includes; flammable gas mixtures, non-flammable gas mixtures and pure gases. The recommended regulator for use with the 17L is the [MESA 400 Series Regulator](#).



CONTENTS:	17 liters (0.6 cu. ft.)
PRESSURE:	240 PSIG
OUTLET:	CGA 600
WEIGHT:	1.1 lbs.
DIMENSIONS:	3" x 10 3/4"
D.O.T. SPEC:	39NRC
REGULATOR:	400 Series


34L Disposable Calibration Gas Cylinder

The 34 liter cylinder is very similar to the 17L cylinder in size and weight. What differentiates the 34L is the ability to increase the pressure (100%), thereby doubling the gas content. Primary use includes; flammable gas mixtures, non-flammable gas mixtures and pure gases. The recommended regulator for use with the 34L is the [MESA 400 Series Regulator](#).

	CONTENTS:	34 liters (1.2 cu. ft.)
	PRESSURE:	500 PSIG
	OUTLET:	CGA 600
	WEIGHT:	1.4 lbs.
	DIMENSIONS:	3" x 10 3/4"
	D.O.T. SPEC:	39NRC
	REGULATOR:	400 Series

103L Disposable Calibration Gas Cylinder

The 103L cylinder is recommended for non-reactive gas mixtures as well as pure gases. Like all the portable cylinders, the 103L is small and lightweight allowing for the convenience of portable calibration. The recommended regulator for the 103L is the [MESA 500 Series Regulator](#) or [600 Series Regulator](#).

	CONTENTS:	103 liters (3.6 cu. ft.)
	PRESSURE:	1,000 PSIG
	OUTLET:	C-10 5/8"-18 UNF
	WEIGHT:	2.3 lbs.
	DIMENSIONS:	3 1/4" x 13 3/4"
	D.O.T. SPEC:	39NRC
	REGULATOR:	500 Series or 600 Series

221L Disposable Calibration Gas Cylinder

The 221L cylinder is recommended for non-reactive gas mixtures as well as pure gases. The 221L is a bit larger than the other portable cylinders but allows more gas in a convenient package. The recommended regulator for the 221L is the [300 Series Regulator](#).



CONTENTS:	221 liters (7.9 cu. ft.)
PRESSURE:	260 PSIG
OUTLET:	CGA 165
WEIGHT:	6.3 lbs.
DIMENSIONS:	9" x 16 1/2"
D.O.T. SPEC:	39NRC
REGULATOR:	300 Series

550L Disposable Calibration Gas Cylinder

The 550L cylinder is recommended for non-reactive gas mixtures as well as pure gases. The 550L is a bit larger than the other portable cylinders but allows more gas in a convenient package. The recommended regulator for the 550L is [600 Series regulator](#) with CGA or a high pressure cylinder regulator.




CONTENTS:	550 liters (19.6 cu. ft.)
PRESSURE:	2200 PSIG
OUTLET:	Varies with gas
WEIGHT:	13 lbs.
DIMENSIONS:	4" x 20 1/2"
D.O.T. SPEC:	39NRC
REGULATOR:	Varies with gas

Aluminum Cylinders


A34L Disposable Calibration Gas Cylinder

Due to the nature of corrosive gas reacting with steel cylinders, the A34L cylinder was introduced for low PPM calibration gases in a convenient, light and portable aluminum cylinder. Primary use includes; high quality, low PPM gas calibration standards including hydrogen sulfide, sulfur dioxide, and low PPM carbon monoxide. The recommended regulator for use with the A34L is the [MESA 500 Series Regulator](#) or the [MESA 600 Series Multi-flow Regulator](#).

 <p>A34L</p>	CONTENTS:	34 liters (1.2 cu. ft.)
	PRESSURE:	500 PSIG
	OUTLET:	C-10 5/8"-18 UNF
	WEIGHT:	0.8 lbs.
	DIMENSIONS:	2 7/8" x 11 1/2"
	D.O.T. SPEC:	39 NRC
	REGULATOR:	500 Series or 600 Series


A58L Disposable Calibration Gas Cylinder

Due to the nature of corrosive gas reacting with steel cylinders, the A58L cylinder was introduced for low PPM calibration gases in a convenient, light and portable aluminum cylinder. Primary use includes; high quality, low PPM gas standards including hydrogen sulfide, sulfur dioxide, and low PPM carbon monoxide. The recommended regulator for use with the A58L is the [MESA 500 Series Regulator](#) or the [MESA 600 Series Multi-flow Regulator](#).

 <p>A58L</p>	CONTENTS:	58 liters (2.0 cu. ft.)
	PRESSURE:	500 PSIG
	OUTLET:	C-10 5/8"-18 UNF
	WEIGHT:	1.6 lbs.
	DIMENSIONS:	3 1/2" x 14 1/2"
	D.O.T. SPEC:	39 NRC
	REGULATOR:	500 Series or 600 Series


A76L Disposable Calibration Gas Cylinder

Due to the nature of corrosive gas reacting with steel cylinders, the A76L cylinder was introduced for low PPM calibration gases in a convenient, light and portable aluminum cylinder. Primary use includes; high quality, low PPM gas standards including hydrogen sulfide, sulfur dioxide, and low PPM carbon monoxide. The recommended regulator for use with the A76L is the [MESA 500 Series Regulator](#) or the [MESA 600 Series Multi-flow Regulator](#).

 <p>A176L</p>	CONTENTS:	76 liters (2.6 cu. ft.)
	PRESSURE:	650 PSIG
	OUTLET:	C-10 5/8"-18 UNF
	WEIGHT:	1.6 lbs.
	DIMENSIONS:	3 1/2" x 14 1/2"
	D.O.T. SPEC:	39 NRC
	REGULATOR:	500 Series or 600 Series

A116L Disposable Calibration Gas Cylinder

Due to the nature of corrosive gas reacting with steel cylinders, the A116L cylinder was introduced for low PPM calibration gases in a convenient, light and portable aluminum cylinder. Primary use includes; high quality, low PPM gas standards including hydrogen sulfide, sulfur dioxide, and low PPM carbon monoxide. The recommended regulator for use with the A116L is the [MESA 500 Series Regulator](#) or the [MESA 600 Series Multi-flow Regulator](#).

 <p>A116L</p>	CONTENTS:	116 liters (4.0 cu. ft.)
	PRESSURE:	1000 PSIG
	OUTLET:	C-10 5/8"-18 UNF
	WEIGHT:	1.6 lbs.
	DIMENSIONS:	3 1/2" x 14 1/2"
	D.O.T. SPEC:	39 NRC
	REGULATOR:	500 Series or 600 Series

Other cylinder, valve and regulator options are available Please inquiry if you need a customized option.

Quality

It is the guiding principle of MESA Specialty Gas and equipment to offer only the highest quality calibration gas products to our customers.

Service

We recognize that only excellent customer service will allow our growth in this highly competitive calibration gas industry.

Support

MESA Specialty Gas offers technical support through top experts in the field. Let us know how we can assist you.

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[Gas Standards Environmental](#)

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[Instrument Grade Pure Gas](#)

[Specialty Gas regulators](#)

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See: www.P65warnings.ca.gov for additional information.

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Environmental Gas Standards

MESA Specialty Gases & Equipment employs a number of gas pollution standards, including EPA protocol gas standards, to maintain environmental safety, ensure compliance, and meet regulatory requirements. We manufacture our gases to meet unique environmental gas standards for pollution in the following areas:

- ✓ Standards for CEM and Stack Gas Monitoring
- ✓ Automotive Exhaust Emission Standards
- ✓ Ambient Air Monitoring Standards
- ✓ Low Level NO Mixtures
- ✓ EPA Protocol Gases

The following list indicates the most common components used in our mixtures, which are designed to meet EPA protocol for environmental gas standards and other gas pollution standards. If you do not see the component you require, please [contact us](#) to check availability:

- ✓ AMMONIA
- ✓ CARBON DIOXIDE
- ✓ HYDROGEN SULFIDE
- ✓ METHANE
- ✓ NITRIC OXIDE
- ✓ OXYGEN
- ✓ PROPANE
- ✓ SULFUR DIOXIDE
- ✓ VARIOUS MERCAPTANS

Pollution

 HROMalytic +61(0)3 9762 2034 ECHnology Pty Ltd		Australian Distributors Importers & Manufacturers www.chromtech.net.au
Website NEW : www.chromalytic.net.au E-mail : info@chromtech.net.au Tel: 03 9762 2034 . . . in AUSTRALIA		

Air pollution is the presence of any chemical, physical (e.g., particulate matter), or biological agent that modifies the natural characteristics of the atmosphere. The atmosphere is a complex, dynamic, natural gaseous system that is essential to support life on Earth.

Enforced air quality standards, like the Clean Air Act in the United States, have reduced the presence of some pollutants. While major stationary sources like factories and industrial plants are often associated with air pollution, the greatest sources of emissions are actually mobile sources—primarily cars. There are many air pollution control technologies and urban planning strategies available to reduce air pollution; however, the worldwide costs of addressing this issue are high.

Sources

Air pollutants are classified as either directly released or formed by subsequent chemical reactions. A direct release air pollutant is one that is emitted directly from a given source, such as the carbon monoxide or sulfur dioxide, all of which are byproducts of combustion; whereas, a subsequent air pollutant is formed in the atmosphere through chemical reactions involving direct release pollutants. The formation of ozone in photochemical smog is the most important example of a subsequent air pollutant.

- ✓ Anthropogenic sources (human activity) related to burning different kinds of fuel
- ✓ Combustion-fired power plants
- ✓ Controlled burn practices used in agriculture and forestry management
- ✓ Motor vehicles generating air pollution emissions
- ✓ Marine vessels, such as container ships or cruise ships, and related port air emissions
- ✓ Burning fossil fuels
- ✓ Burning wood, fireplaces, stoves, furnaces and incinerators
- ✓ Other anthropogenic sources
- ✓ Oil refining, power plant operation and industrial activity in general
- ✓ Chemicals, dust and crop waste burning in farming
- ✓ Fumes from paint, varnish, aerosol sprays and other solvents
- ✓ Waste deposition in landfills, which generate methane
- ✓ Natural Sources
- ✓ Dust from natural sources, usually large areas of land with little or no vegetation
- ✓ Methane, emitted by the digestion of food by animals, for example cattle
- ✓ Pine trees, which emit volatile organic compounds (VOCs)
- ✓ Radon gas from radioactive decay within the Earth's crust
- ✓ Smoke and carbon monoxide from wildfires
- ✓ Volcanic activity, which produce sulfur, chlorine, and ash particulates

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Gas Standards Environmental

EPA Protocol Gas Standards

Health & Hygiene Calibration Gas Standards

Instrument Grade Pure Gas

Specialty Gas regulators

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Landfill Gas Standard

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Domestic US:

International:

Fax:



Landfill Gas Standard

ID:
1035VMLF

\$170.00

Cylinder Size: ☐ A34L - \$170.00/ea [34 liters of calibration gas] ☐ A58L - \$225.00/ea [58 liters of calibration gas]
 ☐ A76L - \$380.00/ea [76 liters of calibration gas] ☐ A116L - \$405.00/ea [116 liters of calibration gas]

Subtotal: \$170.00

– 1 +

Add to Cart

Description

Landfill calibration gas standards are available in our A34L, A58L, A76L and A116L small portable returnable cylinders. Contact MESA for custom concentrations or other requirements.

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OXYGEN	1.00%
NITROGEN	2.00%
CARBON MONOXIDE	0.10%
CARBON DIOXIDE	44.00%
METHANE	BALANCE

Be sure to order the appropriate regulator for your application. Below are several of our most popular regulators for use with portable cylinders. For reactive gas mixtures in aluminum cylinders, you must use stainless steel regulators.



Please contact us by phone or e-mail if you need any assistance with your regulators selection.



\$52.00

\$5.10

\$69.00

Car

\$52



Disposable Calibration Gas Product Menu

- ▶ Select Calibration Gas
- ▶ Regulators
- ▶ Cylinder Information
- ▶ Custom Standards
- ▶ SDS's
- ▶ Contact Us

Live Help

Technical questions? Don't see your mix? Call us

For over 25 years, MESA delivers quality you can count on!

Technical Questions? Call us

Overnight shipping is available! Call us for stock availability.

Don't see your mix? Call us! We offer hundreds of standards.

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Any Prices here ! >
are in USD
(FOB-USA)
Plus Freight (FedEX-AIR)
+ Handling Fee
USD/AUD ? x ~ 0.66
2023-3

Custom Custom Mixes
on Request !
specify Concentration
& Cylinder Size required !
> Production Lead Times ???

from other gases
in stock !

Carbon Dioxide (CO2)

\$82.00 **USD per 34 litre Cylinder NO Regulator Supplied > Extra Cost !**

[View Product](#)

[more Details > On Request](#)



VGM-10

100PPM Acetylene
100PPM Carbon Dioxide
100PPM Carbon Monoxide
100PPM Ethane
100PPM Ethylene
100PPM Hydrogen
100PPM Methane
100PPM Nitrogen
100PPM Oxygen
100PPM Propane
Balance: Argon

VGM-10

\$485.00

[View Product](#)



VGM-9

30.07% Hydrogen
1.24% Propane
1.24% Propylene
1.25% Isobutane
1.25% Butane
1.25% Trans-2-Butene
1.25% Cis-2-Butene
1.25% Ethylene
1.26% Ethane
1.25% Argon
1.24% Nitrogen
1.25% Methane
1.25% Carbon Monoxide
Balance: Carbon Dioxide

Any **Prices** here ! >

are in **USD**

(FOB-USA)

Plus Freight (FedEX-AIR)

+ Handling Fee

USD/AUD ? x ~ 0.66

2023-3

Custom **Custom** Mixes

on Request !

specify Concentration

& Cylinder Size required !

> Production Lead Times ???

from other gases

in stock !

VGM-9

\$655.00

[View Product](#)



VGM-8

0.25% Nitrogen
0.03% Carbon Dioxide
5.58% Ethane
0.03% Propane
0.006% Isobutane
0.01% Butane
0.01% Isopentane
0.01% Neopentane
0.05% Hexane
Balance: Methane

VGM-8

\$540.00

[View Product](#)

VGM-7

0.10% Oxygen	0.05% Pentane
1.00% Nitrogen	0.025% Hexane
1.00% Carbon Dioxide	0.025% Heptane
2.52% Ethane	Balance: Methane
1.00% Helium	
3.00% Hydrogen	
0.30% Propane	
0.10% Isobutane	
0.10% Butane	
0.05% Isopentane	

Any Prices here ! >**are in USD****(FOB-USA)****Plus Freight (FedEX-AIR)****+ Handling Fee****USD/AUD ? x ~ 0.66****2023-3****Custom Custom Mixes****on Request !****specify Concentration****& Cylinder Size required !****> Production Lead Times ???****from other gases****in stock !**

VGM-7

\$585.00

[View Product](#)

VGM-5

141.5 PPM	1,1-Dichloroethylene
144.5 PPM	1,1-Dichloroethane
141.5 PPM	1,2-Dichloroethane
258.9 PPM	1,3-Butadiene
183.0 PPM	2-Chloropropene
144.5 PPM	Cis-1,2-Dichloroethylene
144.5 PPM	Trans-1,2-Dichloroethylene
131.0 PPM	Vinyl Bromide
538.0 PPM	Vinyl Acetylene
868.4 PPM	Ethyl Chloride
1664.0 PPM	Methyl Chloride
Balance:	Nitrogen

VGM-5

\$570.00

[View Product](#)



VGM-4

0.10% Methane
0.10% Ethane
0.10% Propane
0.10% Butane
0.10% Isobutane
0.10% Pentane
0.10% Isopentane
20.88% Oxygen
Balance: Nitrogen

Any **Prices** here ! >

are in **USD**

(FOB-USA)

Plus Freight (FedEX-AIR)

+ Handling Fee

USD/AUD ? x ~ 0.66

2023-3

Custom **Custom** Mixes
on Request !

specify Concentration

& Cylinder Size required !

> Production Lead Times ???

from other gases
in stock !

VGM-4

\$395.00

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VGM-3

0.15% Acetylene
0.15% Carbon Dioxide
0.15% Propylene
0.15% Hydrogen
0.15% Carbon Monoxide
0.15% Ethane
0.15% 1-Butene
0.15% Propane
0.15% Methane
0.15% Ethylene
Balance Nitrogen

Any **Prices** here ! >

are in **USD**

(FOB-USA)

Plus Freight (FedEX-AIR)

+ Handling Fee

USD/AUD ? x ~ 0.66

2023-3

Custom Custom Mixes

on Request !

specify Concentration

& Cylinder Size required !

> Production Lead Times ???

from other gases

in stock !

VGM-3

\$490.00

[View Product](#)



VGM-2

100 PPM Methane	100 PPM Cis-2-Butene
100 PPM Ethane	100 PPM 1,3-Butadiene
100 PPM Ethylene	100 PPM Isopentane
100 PPM Acetylene	100 PPM Pentane
100 PPM Propane	100 PPM 1-Pentene
100 PPM Propylene	100 PPM Trans-2-Pentene
100 PPM Isobutane	100 PPM Cis-2-Pentene
100 PPM Propadiene	100 PPM 2-Methyl-2-Butene
100 PPM Butane	100 PPM Hexane
100 PPM 1-Butene	Balance: Helium
100 PPM Isobutylene	
100 PPM Trans-2-Butene	

VGM-2

\$980.00

\$152.60

[View Product](#)



Any **Prices** here ! >

are in **USD**
(FOB-USA)

Plus Freight (FedEX-AIR)
+ Handling Fee

USD/AUD ? x ~ 0.66

2023-3

Custom Custom Mixes
on Request !

specify Concentration
& Cylinder Size required !
> Production Lead Times ???

from other gases
in stock !

Tedlar Span Bag 9x9 Double Valve

\$69.00

[View Product](#)



Gas Tubing

\$5.10

[View Product](#)



**Compressed
Gas Hazmat fee
paid to carrier**

A one-time \$60 hazardous material fee payable to the carrier is required on any shipment containing compressed gas.

\$60.00

[View Product](#)

Any Prices here ! >

are in USD

(FOB-USA)

Plus Freight (FedEX-AIR)

+ Handling Fee

USD/AUD ? x ~ 0.66

2023-3

Custom Custom Mixes

on Request !

specify Concentration

& Cylinder Size required !

> Production Lead Times ???

from other gases

in stock !

Dangerous Goods Restrictions may apply ! ASK !
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Australian Distributors

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

Chemical Name: Methane, Carbon Monoxide, Carbon Dioxide in Helium

Chemical Formula: CH₄+CO+CO₂ Balance He

Chemical Family: Inert Gas Mixture

Hazard Classification: Compressed Gas, N.O.S., Non-Flammable Gas, UN1956, Green Label

Product Use Description: Analytical Standard and General Laboratory Applications

Company: MESA Specialty Gases & Equipment

2427 South Anne Street

Santa Ana, California 92704 USA

Phone Number for Information: Infotrac

Emergency Contact: 800-535-5053 (Int'l: 352-323-3500)

SECTION 2 – HAZARD(S) IDENTIFICATION

SIGNAL WORD - WARNING

HAZARD STATEMENTS: Contains gas under pressure; may explode if heated.
May cause suffocation by displacing oxygen in the air.

PRECAUTIONARY STATEMENTS:

General: Use in accordance with Safety Data Sheets.

Do not ingest or inhale. Avoid contact with skin and clothing.

Prevention: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Response: Leaking gas fire: Do not extinguish unless leak can be stopped safely.
In case of leakage, eliminate all ignition sources.

Do not open valve until prepared to use.

Always use a back flow preventative device in piping.

Storage: Protect from sunlight. Store in a well-ventilated place.

OTHER HAZARDS:

High pressure gas. May cause rapid suffocation.

May cause dizziness, nausea, drowsiness, vomiting, excess salivation, loss of mobility/consciousness.

May react explosively even in absence of air at elevated pressure and/or temperature.

Self-contained breathing apparatus (SCBA) may be required.



SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	CONCENTRATION
Methane	74-82-8	1.0 ppm - 3.00 Mol%
Carbon Monoxide	630-08-0	1.0 ppm - 6.25 Mol%
Carbon Dioxide	124-38-9	1.0 ppm - 25.00 Mol%
Helium	7440-59-7	Balance

SECTION 4 – FIRST AID MEASURES

ROUTE OF EXPOSURE:

Inhalation: Remove person to uncontaminated area. SCBA may be required to prevent asphyxiation of rescue workers. Keep warm and at rest. Lay victim face down with head and chest lower than hips to improve drainage from lungs. If breathing is labored, administer pure oxygen. If breathing has stopped, start artificial respiration. Get immediate medical attention for serious exposure.

Eye contact: N/A

Skin contact: N/A

Ingestion: N/A

SYMPTOMS: May cause suffocation by displacing oxygen in the air. Exposure to oxygen deficient atmosphere may cause dizziness, nausea, drowsiness, vomiting, excess salivation, loss of mobility/consciousness. Exposure to Carbon Monoxide is harmful in relatively low concentrations. Severe over-exposure can cause headaches, nausea, collapse and death.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use appropriate media for surrounding fire such as CO2 foam extinguishers

UNUSUAL FIRE AND EXPLOSION HAZARDS: Gas cylinders may rupture violently when exposed to fire. Continue to cool fire exposed cylinders until flames are extinguished. Cylinder valve is equipped with a pressure relief device to safely vent the cylinder if it is exposed to elevated pressure in a fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MSHA approved SCBA and full protective equipment. Stop flow of gas if this can be done safely. Use water spray to keep cylinders cool.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Monitor oxygen level. Ventilate the area.

ENVIRONMENTAL PRECAUTIONS: Prevent spreading of vapors through sewers, ventilation systems, and confined areas. Do not discharge materials into any place where their accumulation could be dangerous.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Stop the flow of gas or remove cylinder to outdoor location if this can be done without risk. Ventilate enclosed areas. Move leaking cylinder to fume hood or safe outdoor area. Use monitoring equipment if hazardous conditions are suspected or likely to occur.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Only experienced and properly instructed persons should handle compressed gases. Person is to know and understand the properties and hazards of the product before use. Do not remove or deface labels provided by the supplier for the identification of the product.

Protect cylinders from physical damage to prevent valve damage or leakage. Move cylinders properly; do not drag, slide, or drop cylinders when transporting. Use adjustable strap wrench to remove tight/rusted caps. Ensure the complete gas system has been checked for leaks before use. Never insert any object into valve cap openings; doing so may damage valve causing leakage.

Gas or liquefied gas are to be used with the appropriate pressure regulating control and high pressure equipment. Suck-back into cylinder may cause rupture. Always use a back flow preventative device in piping. Never lift cylinder by its valve protection cap. Use only in ventilated areas.

CONDITIONS FOR SAFE STORAGE: Cylinders should be secured with mounting brackets away from heavily traveled areas. Use oldest cylinders in stock first to prevent full cylinders from being stored for excessive periods of time. Full and empty cylinders should be segregated. Keep cylinder in dry, cool, well ventilated area away from heat, flame, sparks or corrosive chemicals. Cylinders should be moved by suitable hand trucks. Close valve after each use and when empty. Cylinder valve guards or caps should be in place. Cylinder temperature should not exceed 52°C (125°F). Store containers in location free from fire risk and away from any sources of heat and ignition. Keep cylinder away from combustible material. Use equipment rated for cylinder pressure.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	OSHA PEL	ACGIH TLV
Methane	None	1000 ppm
Carbon Monoxide	50 ppm	25 ppm
Carbon Dioxide	5000 ppm	5000 ppm
Helium	None	None

APPROPRIATE ENGINEERING CONTROLS: Ventilation: Enclosed area must be provided with general or local exhaust ventilation to avoid hazardous conditions.

INDIVIDUAL PROTECTIVE MEASURES: Safety glasses, work gloves, and safety shoes should be worn when handling high pressure cylinders or hazardous materials.

Respiratory Protection (Specify Type): Use self-contained breathing apparatus in emergency or rescue situations.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless	Upper/lower flammability/explosive limits: No data available
Odor: Odorless	Vapor Pressure: N/A
Odor threshold: No data available	Vapor Density (Air=1): Varies
pH: N/A	Relative Density (Water=1): Varies
Melting point/range: N/A	Solubility (in water): N/A
Boiling point/range: N/A	Partition coefficient (n-octanol/water): N/A
Flash Point: N/A	Auto-ignition temperature: No data available
Evaporation Rate (Butyl Acetate=1): N/A	Decomposition temperature: No data available
Flammability (solid, gas): No data available	Viscosity: N/A



SECTION 10 – STABILITY AND REACTIVITY DATA

Reactivity: Refer to possibility of hazardous reactions and/or incompatible materials sections

Conditions to avoid: Flame, excessive heat

Chemical Stability: Stable

Incompatible materials: None

Possibility of hazardous reactions: No data available

Hazardous Decomposition or Byproducts: None

SECTION 11 – TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE:

Inhalation: May cause suffocation by displacing oxygen in the air.

Ingestion: Ingestion is not considered a potential route of exposure.

Skin: N/A

Eye contact: N/A

SYMPTOMS/EFFECTS FROM EXPOSURE: May cause frostbite. Exposure to oxygen deficient atmosphere may cause dizziness, nausea, drowsiness, vomiting, excess salivation, loss of mobility/consciousness, rapid suffocation, increase respiration and heart rate.

ACUTE/CHRONIC TOXICITY: Exposure to Carbon Monoxide is harmful in relatively low concentrations. Severe over-exposure can cause headaches, nausea, collapse and death.

CARCINOGENICITY: No data available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial): Aquatic toxicity: 100-200 mg/l/no time specified/various organisms/fresh water.

Waterfowl toxicity: Inhalation 5-8%, no effect. Additionally, frost produced in the presence of rapidly expanding gases may adversely affect plant life.

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other Effects: The mixture does not contain any class I or Class II ozone depleting chemicals.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal: Waste disposal must be in accordance with appropriate National, Federal, State, and local regulations. Do not dispose or discharge into the environment. Do not discharge into enclosed environment. Contact supplier if additional guidance is required.

SECTION 14 – TRANSPORTATION INFORMATION

DOT Classification:

Proper Shipping Name: Compressed Gas, N.O.S.
Class: 2.2
UN/ID No.: UN1956
Label: Non-Flammable Gas, Green Label

IATA Classification:

Proper Shipping Name: Compressed Gas, N.O.S.
Class: 2.2
UN/ID No.: UN1956
Label: Non-Flammable Gas, Green Label

Environment hazard: No

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code: N/A

SPECIAL PRECAUTIONS FOR USER: Avoid transport on vehicles where the load space is not separated from driver's compartment. Ensure that transporter is aware of the potential hazards of the load and knows what to do in event of an emergency. Contact supplier for complete transportation information.

SECTION 15 – REGULATORY INFORMATION

U.S. SARA REPORTING REQUIREMENTS: The components of this gas mixture are subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act, as follows.

CHEMICAL NAME SARA 302
(40 CFR 355, Appendix A) SARA 304
(40 CFR Table 302.4) SARA 313
(40 CFR 372.65)
HEXANE NO YES YES

U.S. SARA THRESHOLD PLANNING QUANTITY: Not applicable.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.

CANADIAN DSL/NDL INVENTORY STATUS: The components of this gas mixture are on the DSL Inventory.

U.S. TSCA INVENTORY STATUS: The components of this gas mixture are on the TSCA Inventory.

CANADIAN WHMIS : Class A: Compressed Gas

LABELING (For Compressed Gas):

WARNING: CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED. MAY CAUSE RAPID SUFFOCATION BY DISPLACING OXYGEN IN THE AIR. MAY INCREASE RESPIRATION AND HEART RATE. May cause dizziness, nausea, drowsiness, vomiting, excess salivation, and loss of mobility/consciousness. May cause frostbite. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources—No smoking. Use and store in well-ventilated areas. Leaking gas fire: Do not extinguish unless leak can be stopped safely. In case of leakage, eliminate all ignition sources. Do not open valve until prepared to use. Always use a backflow preventative device in piping. Use only with equipment rated for cylinder pressure. Close valve after each use and when empty. Cylinder temperature should not exceed 52°C (125°F). Use in accordance with Safety Data Sheet. **FIRST AID:** IF INHALED, remove to fresh air. If breathing is difficult, give Oxygen. Call a physician. **IN CASE OF FROSTBITE,** obtain immediate medical attention. **DO NOT REMOVE THIS LABEL.**



SECTION 16 – OTHER INFORMATION

Information contained in this data sheet is offered without charge for use by technically qualified personnel at their discretion and risk. All statements, technical information and recommendations contained herein are based on tests and data which we believe to be reliable. But the accuracy and completeness thereof, is not guaranteed and no warranty of any kind, either expressed or implied, is made with respect thereto. Since MESA Specialty Gases and Equipment Division of MESA International Technologies, Inc. shall have no control over the use of the product described herein, we assume no liability for loss or damage incurred from the proper or improper use of such product.

HISTORY:

Date of printing:

Date of issue/revision:

Date of previous issue: 12/1/2014

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Domestic US:

International:

Fax:



Any **Prices** here ! >

are in **USD**
(FOB-USA)

Plus Freight (FedEX-AIR)

+ Handling Fee

USD/AUD ? x ~ 0.66

2023-3

Custom Custom Mixes
on Request !

specify Concentration
& Cylinder Size required !

> Production Lead Times ???

from other gases
in stock !



Carbon Dioxide (CO2)

ID:
1013

\$82.00

Cylinder Type: ☐ 34L- \$82.00/ea [34 liters of calibration gas] ☐ 103L-\$180.00/ea [103 liters of calibration gas]
☐ 221L- \$240.00/ea [221 liters of calibration gas] ☐ 550L- \$345.00/ea [550 liters of calibration gas]

Concentrations:

1000 ppm



Balance:

Nitrogen



Subtotal: \$82.00

Description

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Carbon Dioxide in disposable calibration gas cylinders is available from 25 ppm to 10.00% in Nitrogen or Air in the 34L, 103L, 221L and 550L cylinders. Several concentrations in Nitrogen are available for immediate shipping: 2000 PPM, 5000 PPM, 1.00%, 2.50%, 5.00% and 10.00%. Contact MESA for expedited shipping options.

Don't forget your Regulator

Be sure to order the appropriate regulator for your application. Below are several of our most popular regulators for use with portable cylinders.



Series 400 Fixed Flow Regulator
17L & 34L (CGA 600)



Series 500 Fixed Flow Regulator
103L (CGA C-10)



Series 600 Multi-Flow Regulator
103L (CGA C-10)
550L (CGA varies with gas)



Series 800 Demand Flow Regulator
103L (CGA C-10)
550L (CGA varies with gas)



Series 300 Pressure Regulator
17L & 34L (CGA 600)
221L (CGA 165)



Series 100 Small Body Regulator
103L (CGA C-10)

For the 550L (CGA varies- call us if you need assistance with CGA configurations). You may select from the standard laboratory grade regulators, the MESA Series 100 Single Stage Regulator or the MESA Series 200 Dual Stage Regulator. See our [Specialty Gas Regulators](#) section.

Related Products



Carrying Cases

\$52.00

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Gas Tubing

\$5.10



Tedlar Span Bag 9x9 Double Valve

\$69.00

Car

\$52

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- ▶ [Custom](#)
- ▶ [SDS's](#)
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Live Help

Technical questions? Don't see your mix? Call us toll free: [866-470-MESA](tel:866-470-MESA) (6372)

M-F: 8 a.m. - 6 p.m. Pacific Time

For over 25 years, MESA delivers quality you can count on!

Technical Questions? Call us toll free: (866) 470-6372

Overnight shipping is available! Call us for stock availability.

Don't see your mix? Call us! We offer hundreds of standards.

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Domestic US: (866) 470-6372

International: (714) 434-7102

Fax: (714) 434-8006

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WARNING: Products purchased on this site may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

See: www.P65warnings.ca.gov for additional information.



Gas Cylinder Dimensions & Specifications

A Division of MESA International Technologies, Inc.

Domestic US:

International:

Fax:



Carbon Monoxide (CO)

\$82.00

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Categories - MESA Specialty Gases & Equipment



Carbon Dioxide (CO₂)

\$82.00

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VGM-10

100PPM Acetylene
100PPM Carbon Dioxide
100PPM Carbon Monoxide
100PPM Ethane
100PPM Ethylene
100PPM Hydrogen
100PPM Methane
100PPM Nitrogen
100PPM Oxygen
100PPM Propane
Balance: Argon

VGM-10

\$485.00

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VGM-9

30.07% Hydrogen	1.24% Nitrogen
1.24% Propane	1.25% Methane
1.24% Propylene	1.25% Carbon Monoxide
1.25% Isobutane	Balance: Carbon Dioxide
1.25% Butane	
1.25% Trans-2-Butene	
1.25% Cis-2-Butene	
1.25% Ethylene	
1.26% Ethane	
1.25% Argon	

VGM-9

\$655.00

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VGM-8

0.25% Nitrogen
0.03% Carbon Dioxide
5.58% Ethane
0.03% Propane
0.006% Isobutane
0.01% Butane
0.01% Isopentane
0.01% Neopentane
0.05% Hexane
Balance: Methane

VGM-8

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\$540.00

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VGM-7

0.10% Oxygen	0.05% Pentane
1.00% Nitrogen	0.025% Hexane
1.00% Carbon Dioxide	0.025% Heptane
2.52% Ethane	Balance: Methane
1.00% Helium	
3.00% Hydrogen	
0.30% Propane	
0.10% Isobutane	
0.10% Butane	
0.05% Isopentane	

VGM-7

\$585.00

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VGM-5

141.5 PPM	1,1-Dichloroethylene
144.5 PPM	1,1-Dichloroethane
141.5 PPM	1,2-Dichloroethane
258.9 PPM	1,3-Butadiene
183.0 PPM	2-Chloropropene
144.5 PPM	Cis-1,2-Dichloroethylene
144.5 PPM	Trans-1,2-Dichloroethylene
131.0 PPM	Vinyl Bromide
538.0 PPM	Vinyl Acetylene
868.4 PPM	Ethyl Chloride
1664.0 PPM	Methyl Chloride
Balance:	Nitrogen

VGM-5

\$570.00

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VGM-4

0.10% Methane
0.10% Ethane
0.10% Propane
0.10% Butane
0.10% Isobutane
0.10% Pentane
0.10% Isopentane
20.88% Oxygen
Balance: Nitrogen

VGM-4

\$395.00

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VGM-3

0.15% Acetylene
 0.15% Carbon Dioxide
 0.15% Propylene
 0.15% Hydrogen
 0.15% Carbon Monoxide
 0.15% Ethane
 0.15% 1-Butene
 0.15% Propane
 0.15% Methane
 0.15% Ethylene
 Balance Nitrogen

VGM-3

\$490.00

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VGM-2

100 PPM Methane	100 PPM Cis-2-Butene
100 PPM Ethane	100 PPM 1,3-Butadiene
100 PPM Ethylene	100 PPM Isopentane
100 PPM Acetylene	100 PPM Pentane
100 PPM Propane	100 PPM 1-Pentene
100 PPM Propylene	100 PPM Trans-2-Pentene
100 PPM Isobutane	100 PPM Cis-2-Pentene
100 PPM Propadiene	100 PPM 2-Methyl-2-Butene
100 PPM Butane	100 PPM Hexane
100 PPM 1-Butene	Balance: Helium
100 PPM Isobutylene	
100 PPM Trans-2-Butene	

VGM-2

\$980.00

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VGM-1

0.25% Methane
0.25% Ethane
0.25% Propane
0.25% Butane
0.25% Isobutane
0.10% Pentane
0.10% Isopentane
0.10% Hexane
Balance: Nitrogen

VGM-1

\$395.00

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Cylinder Devalving To

\$152.60

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Tedlar Span Bag 9x9 Double Valve

\$69.00

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Gas Tubing

\$5.10

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**Compressed
Gas Hazmat fee
paid to carrier**

A one-time \$60 hazardous material fee payable to the carrier is required on any shipment containing compressed gas.

\$60.00

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BTXE Standards

\$194.00

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Series 200 Dual Stage Specialty Gas Regulator

\$745.00

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RKI Single Toxic Gas Monitor SC-01

\$745.00

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RKI GX-2012

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\$845.00

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RKI GX-2009 Gas Monitor

\$570.00

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RKI Gas Detection Heads

\$900.00

[View Product](#)



RKI Gas Clip Single Gas Monitor

\$360.00

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RKI Fixed System Controllers

\$795.00

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RKI Eagle Two Gas Monitor

\$2,095.00



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RKI Eagle 2 Two Gas Monitor

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RKI Eagle 2 Three Gas Monitor

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\$2,245.00

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RKI Eagle 2 Six Gas Monitor

\$3,695.00

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RKI Eagle 2 Single Gas Monitor

\$1,945.00

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RKI Eagle 2 Gas Monitor Calibration Station

\$1,800.00

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RKL Eagle 2 Four Gas Monitor

\$2,395.00

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RKL Eagle 2 Five Gas Monitor

\$2,845.00

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RKI 01 Series Gas Detectors

\$55.00

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Series 800 Demand FI

\$310.00

[View Product](#)



Series 600 Multi-Flow Regulator

\$384.00

[View Product](#)



Series 500 Fixed Flow Regulator

\$134.00

[View Product](#)



Series 400 Fixed Flow Regulator

\$134.00

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Series 300 Single Stage Specialty Gas Pressure Regulator

\$190.00

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Series 100 Single Stage Small Body Specialty Gas Regulator for Disposable/ Portable Cylinders

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Series 100 Single Stage Specialty Gas Regulator

\$570.00

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Toluene (C₇H₈)

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\$155.00

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Sulfur Dioxide (SO2)

\$150.00

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\$155.00

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Propane (C3H8)

\$82.00

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Phosphine (PH₃)

\$255.00

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Pentane (C₅H₁₂)

\$82.00

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Oxygen (O2)

\$82.00

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Nitrous Oxide (N2O)

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\$105.00

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Nitrogen Dioxide (NO₂)

\$255.00

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Nitrogen (N2)

\$82.00

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Nitric Oxide (NO)

\$255.00

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BTU-6

0.20% Nitrogen
10.4% Carbon Dioxide
10.0% Ethane
4.00% Propane
0.90% IsoButane
0.80% Butane
0.40% IsoPentane
0.30% Pentane
0.30% Hexane
Balance: Methane

Natural Gas Standards- BTU-6

\$445.00

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BTU-4

1.00% Nitrogen
7.00% Carbon Dioxide
6.50% Ethane
4.60% Propane
0.90% IsoButane
0.90% Butane
0.50% IsoPentane
0.50% Pentane
0.30% Hexane
Balance: Methane

Natural Gas Standards- BTU-4

\$445.00

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BTU-1

1.50% Nitrogen
2.50% Ethane
2.50% Propane
0.50% IsoButane
2.00% Butane
0.30% IsoPentane
0.50% Pentane
0.20% Hexane
Balance: Methane

Natural Gas Standards- BTU-1

\$395.00

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BTU-2

2.40% Nitrogen
1.90% Carbon Dioxide
4.80% Ethane
1.00% Propane
0.30% IsoButane
0.30% Butane
0.10% IsoPentane
0.10% Pentane
0.08% Hexane
0.01% Heptane
Balance: Methane

Natural Gas Standards- BTU-2

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\$485.00

[View Product](#)**BTU-5**

9.00% Nitrogen
 3.00% Carbon Dioxide
 3.00% Ethane
 1.00% Propane
 0.40% IsoButane
 1.00% Butane
 0.10% NeoPentane
 0.20% IsoPentane
 0.40% Pentane
 0.05% Hexane
 Balance: Methane

Natural Gas Standards- BTU-5

\$485.00

[View Product](#)**RG-3**

12.00% Hydrogen	1.00% Acetylene
1.00% Argon	3.00% Propylene
1.00% Carbon Monoxide	2.00% 1-Butene
3.00% Carbon Dioxide	1.00% Propadiene
5.00% Methane	1.00% Cis-2-Butene
4.00% Ethane	3.00% Trans-2-Butene
6.00% Propane	1.00% IsoButylene
0.03% CycloPropane	3.00% 1,3-Butadiene
5.10% IsoButane	0.60% 1-Pentene
4.00% Butane	0.20% Trans-2-Pentene
1.00% IsoPentane	0.30% Cis-2-Pentene
1.00% Pentane	0.20% 2-Methyl-2-Butene
0.10% Hexane	Balance: Nitrogen
2.00% Ethylene	

\$895.00

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RGA-2

3.90% Nitrogen	0.50% Hexane
0.50% Argon	2.00% Ethylene
1.00% Carbon Monoxide	2.00% Acetylene
2.90% Carbon Dioxide	2.00% Propylene
8.20% Methane	1.80% Propadiene
5.80% Ethane	2.00% 1-Butene
6.80% Propane	2.00% Cis-2-Butene
0.04% CycloPropane	2.00% Trans2-Butene
4.90% IsoButane	1.90% Isobutylene
4.00% Butane	2.90% 1,3-Butadiene
1.00% IsoPentane	Balance: Hydrogen
1.00% Pentane	

Refinery Gas Analysis- RGA-2

\$760.00

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BTU-3

0.20% Nitrogen
10.1% Carbon Dioxide
4.20% Ethane
1.90% Propane
0.90% IsoButane
0.30% Butane
0.20% IsoPentane
0.10% Pentane
0.40% Hexane
Balance: Methane

Natural Gas Standards- BTU-3

\$445.00

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Methane (CH₄)

\$82.00

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Landfill Gas Standard

\$170.00

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Isobutylene (C4H8)

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\$82.00

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Hydrogen Sulfide (H₂S) Quad Mixture

\$194.00

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Hydrogen Sulfide (H₂S)

\$160.00

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Hydrogen Cyanide (HCN)

\$255.00

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Hydrogen Chloride (HCl)

\$285.00

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Hydrogen (H2)

\$82.00

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Hexane (C_6H_{14})

\$82.00

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Ethylene Oxide (EtO)

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\$255.00

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Chlorine (CL2)

\$370.00

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Carrying Cases

\$52.00

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Butane (C₄H₁₀)

\$82.00

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Benzene (C₆H₆)

\$135.00

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Ammonia (NH₃)

\$255.00

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Air, Zero

\$82.00

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