PROCESS CHEMICAL Gases

Pure Gases & Gas Mixtures

Carbon Monoxide
Ethylene Dichloride
Oxygen
Ethane
Ethylene
Hydrogen
Vinyl Chloride
Nitrogen
Propane
Methane
Nitrogen
Air
Acetylene
Propylene
Argon

VOC Mixtures

EPA Protocols

Certified Standards

AWG SPECIALTY GASES

Total Support...

our business revolves around you

AWG offers a full line of gas products catered to the Process Chemicals Industry. Most of these applications involve blanketing, purging and inerting. Depending on the requirement, various purity levels could be needed. AWG can assist the end users in determining the right gas products for their unique needs

Common Gas Applications:

Blanketing

Blanketing is the process of using an inert gas above the product to maintain a consistent condition. Blanketing is done to prevent oxidation, degradation from moisture, or any change to the product (color, taste etc) that could come from a normal atmospheric condition.

Inerting

Adding an inerting agent (nitrogen) can change a flammable or reactive state into a non-flammable or non-reactive condition. By adding the inerting agent, the necessary amount of oxygen for combustion is reduced to a non-flammable atmospheric level.

Pressure Transfer

Using nitrogen to move liquid products to and from storage and transport vessels is efficient and safe. Again, pure nitrogen is the most popular gas for this method because of its inert character and wide availability.

Pressure Testing

Also known as leak testing, this process introduces an inert gas at pressure to a pipeline or other process equipment to check the integrity of the unit. The inert gas should be pure and dry to make sure no contaminants are introduced to the equipment.

Purging

Purging is the method of adding an inert gas to displace flammable vapor, air (moisture and oxygen) to a vessel to render it contaminant free. In the Process Chemicals industry the vessel is often a pipeline, storage tank or other process equipment.

For the Lab:

From UHP and grade 7 (99.99999%) helium to rare gas mixtures AWG can fill any request the Lab Manager may require for his quality assurance work.

Get the most for your money.
Make AWG your preferred supplier.

Specialty Gas...

get it right, right away

The quality you need – AWG offers highly specialized gas mixtures for a wide variety of markets and industries. From Continuous Emissions Monitoring for the Power Generation industry to precise custom blended gases for synthetic fuel research and production. AWG is your single source for all of your specialty gases and equipment.

Delivered as you want it – Our State-of-the-Art Laboratory can produce a wide variety of pure and mixed gases in purities up to grade 5.5 (99.9995). We routinely produce pure and custom mixed gases for University Research, Healthcare, Industrial and Pharmaceutical Companies.

When you want it – Because we have our own laboratory, we can be very responsive to our customer's needs. Need a custom gas in a rush? Tell us what you need.

We're ready to serve.

TIER 5 LABS

American Welding & Gas, Inc.
664 Magnolia Avenue, Lexington, KY 40505

ISO/IEC 17025:2017

PJLA Calibration
Accreditation# 70946

PJLA Testing
Accreditation# 70946

Pure Gases Calibration Gases Special Application Mixtures Semi Conductor Gases Gas Delivery Equipment

800.967.6874 awggases.com

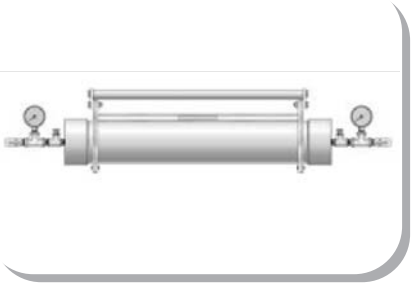
Essential High Purity Gas Delivery Equipment

Concoa/Purity Plus

312 Series Regulator

- Dual Stage
- Chrome-Plated Brass Barstock Body
- Four-Port Configuration
- 316L Stainless Steel Diaphragm

Part # CON312-2331



Welker Engineering/Purity Plus

Constant Pressure Sample Cylinder

- Can supply up to 3600 PSI working pressure by applying equivalent nitrogen pressure to the gas side of the piston, thus maintaining the pressure and mixture you need.
- The cylinder is available in several volumes and can be refilled

Part # CP-42-GA

Concoa/Purity Plus

Protocol Station Bench Stands

- The Protocol Station Bench Stand is designed to mount a regulator with an attached Protocol Station to a laboratory bench.

*Regulator and Protocol Station Shown Sold Separately

Part # CON529-0126

Concoa/Purity Plus

526 Series Switchover

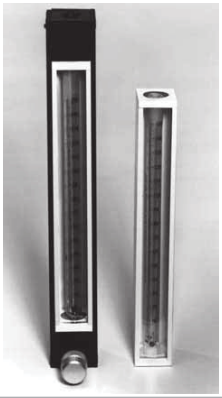
- The 526 series switchover is an automatic switchover system designed to provide a continuous supply of high purity gas.

Rattermann

Liquid Transfer Kit

- 6' CGA 295 Armored Hose w/ 1/8" Defuser

Part # RATFPA6D18



Purity Plus

Flow Meter

- High resolution 150mm scale length
- For Carrier and fuel gas chromatography use

7920 Series

Visit our on-line **Specialty Gas Catalog** at awggases.com

800.967.6874 awggases.com

Essential Safety Equipment

Ratermann
Heavy Duty Cylinder Truck
- Stair Climber
- 10" x 2.72" Solid Rubber BB

Part # RATCBR-54STAIR

Ratermann
Modular Cylinder Stand
- 12 Gauge Steel Floor Plate
- Heavy duty safety chain to secure each cylinder individually

Part # RATCBR-M6

Griftan
High Pressure Safety Cap
- Fine Thread
- 11 Threads Per Inch
- 3 1/8 Inch Collar Diameter

Part # GRIGT-11
- Coarse Thread
- 7 Threads Per Inch
- 3 1/8 Inch Collar Diameter

Part # GRIGT-7

Schedule your Safety Seminar...

Our safety seminars are designed to promote a safe environment for your employees that use compressed and/or cryogenic gas products. We discuss basic compressed and cryogenic safe practices and also delve into selecting the right equipment for the right application. The seminar last between 40-45 minutes with questions and individual consultation following.

Satisfied Customer Review

"Thank you again for your time and talent given in preparing an excellent, informative, and very important session for the employees at the Center for Applied Energy Research, it was appreciated."

Ruthann Chaplin REHS/RS
EHS Specialist
Center for Applied Energy Research
University of Kentucky

Make AWG your preferred supplier.

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Lab Gas Delivery Systems...

designed to meet your production goals

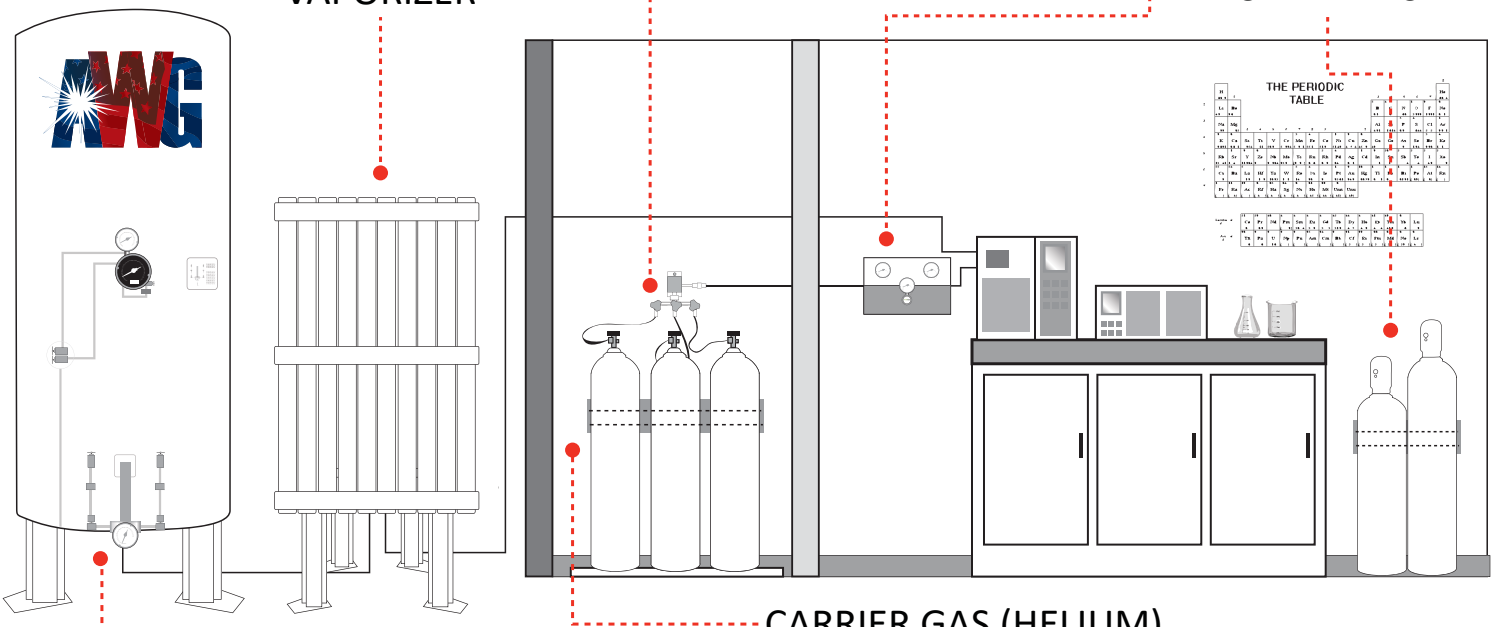
You need a gas delivery system that lets you operate at top performance. Let your AWG Sales Representative develop a custom lab gas delivery system that best meets your production goals. Call us today!

CENTRALIZED AUTOMATIC SWITCHOVER MANIFOLD

The automatic switchover system designed to provide a continuous supply of high purity, non-corrosive gas.

POINT OF USE PANEL

They are intended to provide final pressure control in gas distribution systems and are ideal for laboratory applications.



Get the most for your money.
Make AWG your preferred supplier.

Bulk Gases...

we deliver peace of mind

Lower gas costs • Continuous supply of gas • Fewer invoices and deliveries. Is bulk gas the right solution for you? Get some peace of mind, call your AWG Sales Representative to discuss your system needs. Big savings could be just a call away.

Wide variety of cryogenic gases is available - We deliver the following liquefied and gaseous products to hundreds of our valuable customers:

Medical Bulk
- Oxygen
- Nitrogen

Industrial Bulk
- Argon
- Carbon Dioxide
- Hydrogen
- Gaseous Helium
- Propane

Bulk trailer fleet – We have over a dozen cryogenic trailers and gas tuber trailers in our bulk fleet and plan to expand this business.

Logistics management – State-of-the-art technology and a professional logistics team ensure you have the cryogenic gas you need, when you need it.

- **Bulk Tank Telemetry Systems** – telemetry units can be mounted on customer bulk tanks that will send PSI and liquid level readings, so we can provide daily monitoring of your tank levels.

- **Fleet Tracking and Communications** – AWG tracks the physical movement of the tanker fleet by using a Global Positioning System, to provide optimized delivery schedules.

Repair Technicians - We design, install and maintain all of our bulk tanks to meet your needs. With over 90 years of combined experience. Our repair technician team is second to none.

Multiple suppliers ensure availability - AWG sources gas from multiple production sites across the country and we leverage logistics through state-of-the-art communications.

Visit our on-line Specialty Gas Catalog at amwelding.com

Find a

LOCATION

near you on

www.awggases.com