



PHOENIX
GASES PVT. LTD.

SPECIALISTS IN GAS MIXTURES

Phoenix Gases Pvt. Ltd.

- SPECIALISTS IN CALIBRATION GAS MIXTURE
- HIGH PURITY GASES
- GAS HANDLING EQUIPEMENTS
- RADIOISOTOPES
- ISO 9001:2008 CERTIFIED

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PHOENIX GASES PVT. LTD.

Phoenix Gases Pvt. Ltd , India, was formed by an energetic team in 1999 having a great deal of experience in the gas industry, a 15 year old enterprise having a strong presence in all over India with rich experience in marketing & handling of various gases. The motto of the team is to dedicate itself to manufacture and supply Industrial/ Specialized gases and Gas Handling Systems in India.

In this competitive world, our focus has always been to be the undisputed leader by growing aggressively and maintaining the highest level of operating standards.

Our aim is to build long term working relationships with our clients based on our quality product range and excellent service.

Phoenix prides itself on being able to give its customers what they want, where they want it and when they want it in a very technical and complex product area. With our specialist, focused and flexible approach we work with our customers to meet their needs in terms of targets and deadlines.

We are proud to have won the Investors in People standard which reflects our dedication to staff training and motivation. We continue to move forward in the pursuit of excellence.



Many of our team have spent a lifetime in the Speciality Gas sector. This experience allows us to meet even the most demanding needs of our customers worldwide.

Our philosophy is that all our customers have different needs, applications and service requirements, hence our very individual and tailored approach to customer service.

Incoming queries are handled directly through our dedicated customer service and sales team who provide friendly, helpful advice and quotations usually on a same day basis.



At Phoenix we are committed to operational excellence in all we do with a focus on delivering superior products and building a long lasting relations with our customers.

We are transparent, fair and consistent in dealing with all people. We insist on honesty, integrity and trustworthiness in all our activities.

We believe technology is a key to the future success of our organization. We advocate 'best-in-class' technologies.

Human Resources:

We believe that our success is driven by the commitment and excellence of our people.

Attract and retain result-oriented people who are proud of their work and are satisfied with nothing less than the very best in everything they do.

Encourage individuals by creating opportunities for people to learn and grow.

Respect the individual rights and dignity of all people



1. MODEL FF100
2. MODEL FF20
3. MODEL FF120
4. MODEL ODFR - 1001 ON DEMAND FLOW REGULATOR
5. MODEL PBR - 100 PUSH BUTTON REGULATOR
6. MODEL VF - 100 VARIFLOW
7. DESIGN & SUPPLY SPECIALIST REGULATORS

Specialist Equipment

1. SPECIALIST REGULATORS FOR RC USE
2. CYLINDER CONNECTORS BRASS AND STAINLESS STEEL TO BS, DIN AND CGA

Services

Our in-house Dangerous Goods knowledge and experience means we can offer secure delivery worldwide. Our trained staff take care of any document problems you may have and using our network of experienced Dangerous Goods transport companies, we can move goods quickly and safely to destination. Phoenix are one of the few companies worldwide that has the expertise to handle the range of gases, by road, sea and air.

We work in partnership with global customers to hold the correct level of stocks worldwide, ensuring customers get fast delivery to vessels. We have a division specializing in deliveries to the Marine Industry - from global locations within days. Whatever your requirements our sales staff will advise you of the best choices available to you.



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- 2. Phoenix has a dedicated laboratory for:**
1. High precision reception control of raw materials.
 2. Analysis and stability testing of finished products.



Standards
Phoenix conforms to ISO standards : -

Traceability
1. We can provide traceability on request to the National Physical Laboratory. If analysis is required we calibrate against ERTL, NPL or NIST gas standards.

Regulators For High Pressure Cylinders
Phoenix offer a number of types of regulators and our experience means we are able to recommend the best regulator for your application:

1. SINGLE STAGE BRASS - PGPL-B1
2. TWO STAGE BRASS-PGPL-B2
3. SINGLE STAGE STAINLESS STEEL-PGPL-S1
4. TWO STAGE STAINLESS STEEL-PGPL-S2

Please contact us to discuss your exact requirements.

Technical Consultancy
Phoenix can advise, design, supply, install and commission specialty gas plant and equipment in partnership with customers worldwide.

Regulators For Refillable Cylinders
Phoenix can supply the complete range of regulators for the disposable cylinder market, including:



High Pressure Cylinders

1. Full range of High Purity gases for carrier and process gas applications (eg. He 5.0, H2 5.0, N2 6.0).
2. Full range of calibration gas mixtures in High Pressure cylinders, from simple binary mixtures through to multi component mixtures (up to 200 bar).



Refillable Cylinders

1. Full range of Refillable Cylinders up to 116L (gas volume)



Equipment

1. Complete range of regulators and equipment options, including the new Engineers Bag designed for ease of use.

Quality

Our dedication to quality has been recognized with the following standards:

1. ISO 9001:2008

Services

We aim to offer the highest service possible at every stage of your ordering process, including:

1. Same day response times on quotations through our dedicated customer service and sales team.
2. Labeling and all associated documentation can be designed to suit customer needs.
3. Typical delivery lead times of 2 - 4 weeks.

On-line Services

As a valued Phoenix customer we will supply you with a unique login code to access our comprehensive, user friendly website for the following facilities:

1. Certification and product information sheets.
 2. Up to date stock level listing.
- MSDS in English or other European languages (upon request).



High Purity Gases

We supply High Purity Carrier gases up to >99.9999 % pure. Our range includes Hydrocarbon gases, Chemical gases, Halocarbons, Rare gases and many other gases for research and industry. These gases can be supplied in a range of cylinders or lecture bottles up to 200bar in pressure. Bulk containers of certain gases are available on request.

Valve Types

1. British (BS) | 2. Europe (DIN) | 3. U.S.A. (CGA) | 4. IS

Radioisotopes

Periodic Table of Elements

For elements with no stable isotopes, the mass number of the isotope with the longest half-life is in parentheses.

Periodic Table Design and Inheritance Copyright © 2007, Michael Decker. <http://www.phoenixgases.com> Last updated Dec. 10, 2017

*Edited by Dr. Casagrande

PRODUCT RANGE

- Acetylene
- Air
- Allene
- Ammonia
- Argon
- Boron Trichloride
- Butane
- Butene Cis 2
- Butene Trans 2
- 1.3. Butadiene
- Carbon Monoxide
- Carbonyl Sulphide
- Chlorine
- Cyclopropane
- Deuterium
- Dimethylamine
- Dimethyl Ether
- Ethane
- Ethyl Acetylene
- Ethyl Chloride
- Ethylene
- Helium
- Hydrogen
- Hydrogen Bromide
- Hydrogen Chloride
- Hydrogen Sulphide
- Iso-Butane
- Iso Butylene
- Krypton
- Methane
- Methyl acetylene
- Methyl Bromide
- Methyl Chloride
- Methyl Mercaptan
- Mono Ethylamine
- Neon
- Nitric Oxide
- Nitrogen
- Nitrogen dioxide
- Nitrous Oxide
- Oxygen
- Propane
- Propylene
- R-See halocarbons
- Sulphur Hexafluoride
- Sulphur dioxide
- Trimethylamine
- Vinyl Bromide
- Vinyl Chloride
- Xenon

Certification

All PRIMARY and CERTIFIED mixtures are issued with a CERTIFICATE OF COMPOSITION which shows.

1. The mixture in terms of requested composition and actual certified composition. Mixture pressure, gas volume, mixtures accuracy, shelf life, valve type,



conditions of storage and use are all prescribed on the certificate.

2. A statement denoting traceability.
3. Our internal reference number and the customer order number.
4. Available to download directly from our website.
5. We supply mixtures with a certified shelf life, clearly stated on our certificate of composition.

Cylinder Preparation

Our expertise includes:

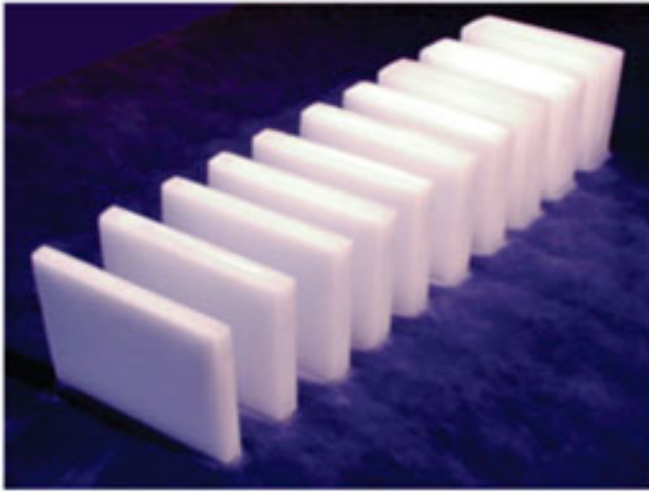
1. Selecting the correct cylinder material and valve type depending upon the customer's needs.
2. A range of various comprehensive specialized internal cylinder treatments, selected to give excellent mixture stability.

Laboratory And Analysis

1. All products manufactured undergo full QC assessment.

Dry Ice

Dry ice manufacturing starts with liquid carbon dioxide held under pressure (300 psi) in bulk storage vessels. To begin making dry ice, the liquid CO₂, is sent through an expansion valve into an empty chamber where under normal atmospheric pressure it flashes into CO₂ gas. This change from liquid to gas causes the temperature to drop quickly. About 46% of the gas will freeze into dry ice snow. The rest of the CO₂ gas, is released into the atmosphere or recovered to be used again. The dry ice snow is then collected in a chamber where it is compressed into blocks, or various sized pellets to meet customers requirements. The denser the dry ice is, the longer it will last, the, the easier it is to handle, and the better it will perform when blast cleaning.



ETHYLENE THE WONDER RIPENING GAS

Why Ethylene : Ethylene is an agent in the fruit ripening process. Most of the fruits elute ethylene gas as they ripen and others are sensitive to it. The process of ripening is triggered and accelerated, if the atmosphere surrounding the raw fruit is injected with traces of ethylene gas. The process of fruit ripening with external ethylene injection does effect the flavour and taste of the fruit. The concentration of ethylene that is required to be maintained in the atmosphere during the soaking period is decided by the size of the room / chamber and the type of the fruit. This canister shall result in a concentration of approximately 100 ppm of ethylene in a room / chamber of size 3m x 4m x 3m, with a volume of 36 cubic meter (3600 liters).





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