

# Portable Cylinders



Portable pure gases and gas mixtures for gas detection and monitoring applications

- Small and light gas cylinders
- Large range of molecules and concentrations for standard and custom needs
- Shipped directly to your door, same day dispatch available
- Shelf life up to five years
- 40 years of quality, reliability and service

# Portable cylinders

Portable cylinders are a reliable and convenient solution for all gas users looking for compact gas packaging - suitable when small quantities of gases are needed.

Air Liquide's portfolio of small, lightweight Non-refillable cylinders, includes ultra-high purity gases, standard and custom mixtures, as well as gas handling equipment to meet all of your applications.



## The benefits are clear

### Lightweight and portable

- Easy to handle, store and transport to the point of use.
- Perfect for field and laboratory use.
- Increased comfort and safety when working at height.

### Fast and reliable delivery

- Shipped worldwide with same day dispatch and tracking number available.
- Fast and convenient direct delivery through major dangerous goods approved carriers.
- Five year shelf life from date of supply for specified non reactive products.

### Flexible ownership

- Sold without attached monthly rental cost.
- Easy to recycle locally, no need to return them to Air Liquide.



## Our standard product range

Cylinder Type	Material	Gas Volume	Outlet	Application	
				Reactive	Non-Reactive
2AL	Aluminium	34 litres	C10	✓	✓
8AL	Aluminium	58 litres	C10	✓	✓
10AL	Aluminium	116 litres	C10	✓	✓

**Typical Non-Reactive Gases:** LEL mixtures, mixtures containing O<sub>2</sub>, CO, CO<sub>2</sub>, CH<sub>4</sub> or C<sub>x</sub>H<sub>y</sub>

**Typical Reactive Gases:** mixtures containing H<sub>2</sub>S, SO<sub>2</sub>, Cl<sub>2</sub>, NH<sub>3</sub>, NO, NO<sub>2</sub>, PH<sub>3</sub>, SiH<sub>4</sub>

## Standard mixtures and stability

Cylinder	Binary component mixture in Nitrogen or Air	Stability
2AL 8AL 10AL	All non-reactive gases**	60 Months
	Sulfur Dioxide, Hydrogen Sulfide or Benzene	24 Months
	Hydrogen Cyanide, Nitric Oxide* or Ammonia	18 Months
	Hydrogen Chloride*, Ethylene Oxide, Phosphine* or Silane*	12 Months
	Chloride*	9 Months
	Nitrogen Dioxide	7 Months
	Hydrogen Sulfide < 2 ppm*	6 Months
Cylinder	Multi-component mixture in Nitrogen or Air***	Stability
2AL 8AL 10AL	All non-reactive gases**	60 Months
	2, 3 or 4 in 1 mixtures (containing H <sub>2</sub> S or SO <sub>2</sub> )	24 Months

**Zero Air or Nitrogen are categorised under non-reactive gases**

\* Only available in Nitrogen balance gas

\*\* LEL mixtures are available in balance Air or in combination with Oxygen as component

\*\*\* Multi-component mixtures in combination with reactive components are considered reactive mixtures

## Mixture Tolerances:

1- 2 ppm + 100% / -50% (relative)

2-20ppm +/- 10% (relative)

21-50 ppm ± 5% (relative)

51 ppm & above ± 2% (relative)

## Cylinder Specifications

Model	Pressure (bar)	Outlet Fitting	Dimensions (mm)	Weight (kg)
2AL	34.5	C10 (5/8"- 18 UNF)	289 x 76	0.44
8AL	34.5	C10 (5/8"- 18 UNF)	362 x 89	0.73
10AL	69	C10 (5/8"- 18 UNF)	381 x 89	1.02



# Regulators to deliver gas safely to your point of use

Fixed flow regulator



Model 700

Fixed flow regulator



Model 1700

Demand flow regulator



Model 2000

700 Series	Single-stage preset fixed flow rate regulator. Available in brass, hybrid stainless steel/aluminium or stainless steel versions
1700 Series	For low ppm reactive gases and high-purity gas mixtures, designed for low-flow rate and adjustable delivery pressure
2000 Series	Demand-flow regulators designed for use with pumped instruments

## Recycling information

### Portable cylinders are easily and fully recyclable

A custom patented tool has been designed to safely render the cylinder valve inoperative. The process will leave a visible hole in the cylinder valve assembly, making it obvious that there can be no pressure left in the cylinder.

The empty cylinder can then be recycled in accordance with the local regulations.



Gain time & flexibility with myGAS customer portal


## Consult the e-Mixtures Guide for you quotation

The e-Mixture Guide enables you to find the gas mixture that is required for your application. You can also directly ask your Air Liquide Expertise Center for a quotation.

## Order through myGAS, your customer portal

Browse online through our entire range of gases and equipments, and order online with myGAS.

### What are the benefits of myGAS?

-  Gain time and flexibility
-  Browse our catalog (gas and equipment)
-  Connect with our experts
-  Order online 24/7
-  Track your orders and deliveries
-  Consult your invoices, contracts and stock balance



#### Place your order

Your order is placed through on MyGas, by email or by phone.



#### Product Preparation

Calgaz or an Air Liquide factory prepares your products.



#### Track your order

A tracking number is provided by email as soon as the parcel is ready.



#### Delivery

You receive your order directly to your door!



#### Recycle

Once the cylinder is empty, you can recycle it locally.





European  
manufacturing  
and logistics  
facility

## Fast and easy delivery

Cylinders are conveniently shipped directly to the desired address using parcel delivery specialists.



### Step 1

A parcel tracking number is sent to your email as soon as your order leave our premises, for your peace of mind.



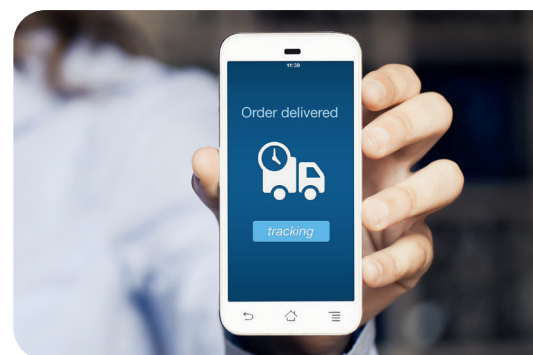
### Step 2

Same day dispatch of in-stock products is offered.



### Step 3

Deliveries can be arranged throughout the Benelux and Europe.



- ✓ Strong expertise
- ✓ Easy to reach
- ✓ Reliable service

### Air Liquide Expertise Center

High purity gases, mixtures and related equipment for Research & Analysis

<http://airliquide-expertisecenter.com>

