

Summary DETECTAGAS® cylinders are disposable or refillable gas mixtures for the calibration and bump testing of fixed and portable gas detector monitors for industrial hygiene purposes. These systems are used to monitor gases in the air to ensure a workplace is safe from toxins and flammable or explosive atmospheres for employees, contractors and visitors.

Key Legislation

AS/NZS 2865 - Confined Spaces

This standard outlines the requirements and procedures to ensure the health and safety of any persons required to enter or work in a confined space.

For the purposes of this standard, a person whose head (i.e. the breathing zone or upper body) is within a confined space is considered to have entered the confined space

AS/NZS 61779 - Electrical apparatus for the detection and measurement of flammable gases

Guide for the selection, installation, use and maintenance of apparatus for the detection and measurement of flammable gases.

Under section 9.2.2 (Portable and transportable gas detection apparatus), subsection b (Response (sensitivity) checks and calibrations):

Regarding calibration, portable and transportable gas detection apparatus should be: (iv) Response tested (or re-calibrated) immediately before each occasion of use.

Common Mixtures	MIXTURE	SIZE	PART NUMBER
	Air Zero	100L	294130703NR
	50ppm ammonia in nitrogen	58L	294228305NR
	2% carbon dioxide in nitrogen	100L	294218103NR
	3% carbon dioxide in nitrogen	100L	294334203NR
	0.5% hydrogen in air	100L	294211503NR
	2% hydrogen (50% LEL) in air	100L	294218203NR
	10ppm hydrogen cyanide in nitrogen	58L	294216005NR
	10ppm hydrogen sulfide in nitrogen	116L	294215802NR
	25ppm hydrogen sulfide, 100ppm carbon monoxide, 2.5% methane (50% LEL), 18% oxygen in nitrogen	34L	294513810NR
		58L	294513805NR
		116L	294513802NR
	25ppm hydrogen sulfide, 100ppm carbon monoxide, 3500ppm pentane (25% LEL), 18% oxygen in nitrogen	116L	294531802NR

Other mixture components include Chlorine, Ammonia, Hydrogen Chloride, Carbon Monoxide, Ethylene Oxide, Nitrogen Dioxide, Nitric Oxide, Ethanol, Hydrocarbons (including LEL or UEL for Pentanes Propane, etc), Halocarbons, Hydrogen and Oxygen.

Uncertainty Batch Tested Batch Tested ±5% preparation tolerance ±5% preparation tolerance	NON-REACTIVE COMPONENTS	
Shelf Life6-24 months12-36 months		
Cylinder Sizes 34L, 58L, 100L and 116L 34L, 58L, 100L and 116L		







Manut



Oil rigs and platforms, oil refineries, petrochemical plants, steel industry, fire brigades, storage areas, power generation sites, waste disposal on landfill sites and mining industry.

Common Detectors

PORTABLE PROTECTION EQUIPMENT	FIXED PROTECTION EQUIPMENT
Personal monitor	Single or Multi head detection monitor
Flammable monitor	Carbon Dioxide monitor

Catalytic Sensory System

Used for flammable gas detection in the monitoring of the Lower Explosive Limit (LEL) and Upper Explosive Limit (UEL).

Electrochemical Sensory System

Used for the detection of toxic gases and oxygen levels.

Energy

Infra-red Absorption Sensory System

Uses Infra-red radiation to detect a range of components, including Carbon Dioxide (CO₂), Carbon Monoxide (CO) and Methane (CH₄).

Benefits

- → Common products now stocked in New Zealand reducing lead times and freight costs \rightarrow In-house testing of Hydrogen Sulfide (H₂S) for guaranteed stability
- → Every cylinder is quality tested and fully NIST traceable
- → Gases analysed to ISO 17025 and ISO 17034 are available at an additional cost
- → Returnable cylinders for recycling to reduce environmental impact

Regulators

Preset Constant Flow Regulators

With unique diaphragm technology, these regulators will hold their preset flow, even as the cylinder pressure is depleted.

Demand Flow Regulators

Designed for the Environmental and Industrial Hygiene markets for instruments with sample draw pumps this regulator overcomes the inconvenience of using sample bags or T-assemblies ensuring sensor repeatability.

300 SERIES
Stainless Steel diaphragm
Demand Flow Regulator
C-10 or CGA
3/16' hose barb outlet fitting
Nickel plated brass
0.25 to 10 liter per minute (variable)

For more information, contact your local Scientific Specialist or our dedicated Scientific Customer Engagement Centre on 0800 100 949 or scientificNZ@boc.com.