

# MEDICAL GAS CYLINDER GUIDE



# Provides healthcare professionals with the industry's safest and most cost effective medical oxygen delivery system

**TAKEO™** is one of the world's first digital integrated cylinders.

**TAKEO™** combines a built-in pressure regulator, an ergonomic cap and a patented digital gauge, TIPI™ (Time-intelligent Pressure Indicator).

TIPI™ gives user direct information on a fully automated display screen and helps to better manage oxygen administration.

## Key Benefits:

**Greater patient safety** - reducing the risk of oxygen supply disruption, especially during patient transportation.

**Improved ease of use** - easier access and manipulation of flow selector.

**Cost efficiency** - better utilization of gas contents and lesser wastage with the direct & exact information.



Always Available: .....  
The bar graph indicating pressure



During use:  
display indicates  
**remaining TIME** at  
current flow rate.

When not in use:  
display indicates  
**remaining VOLUME**  
of oxygen in litres.

**When the remaining oxygen decreases,  
2 levels of alerts exist**



**1st level: ¼ content remaining**

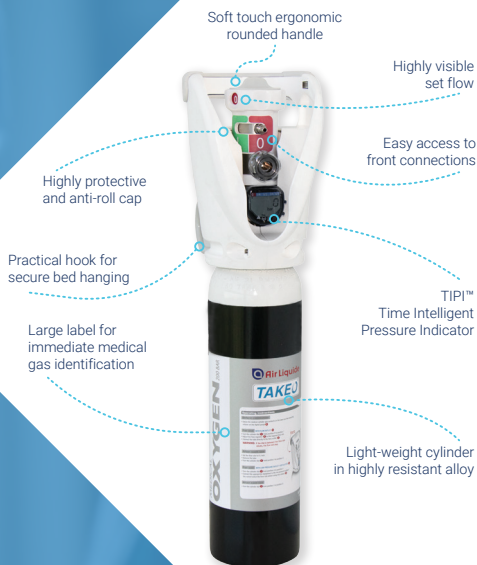
- 3 beeps can be heard
- Remaining time of use is still displayed
- Continuous flashing of the bar graph



**2nd level: less than 15 mins remaining at current flow rate**

- 2 beeps can be heard
- 4 dashes are displayed
- Continuous flashing of hourglass and dashes

## TAKEO



**SAFETY  
FIRST**

# Medical Gas Selection

## CYLINDER WEIGHT, SIZE & DIMENSION

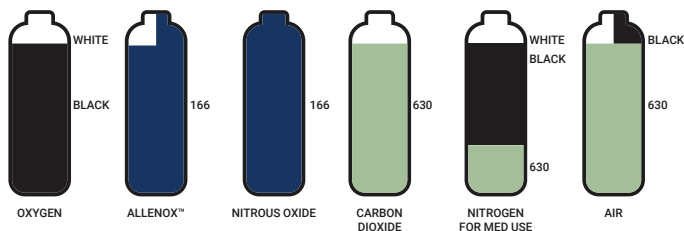
GAS TYPE	WATER CAPACITY (LITRE)	CYLINDER CAPACITY	GAS PRESSURE	APPROX. CYLINDER EMPTY WEIGHT (KG)	APPROX. CYLINDER FULL WEIGHT (KG)	DIMENSION DIA x L (CM)	VALVE CONNECTION
Oxygen	2.7	0.4m³	150	4.7	5.2	11 x 56	Pin-Index
	4.8	0.8m³	150	7.2	8.3	11 x 86	Pin-Index
	20.7	3.5m³	150	26.7	31.3	16 x 127	Handwheel
	47.0	7.4m³	150	63.6	73.3	23 x 153	Handwheel
	47.0	9.8m³	200	64.5	77.3	23 x 165	Handwheel
TAKEO™	2.0	0.4m³	200	3.6	4.2	12 x 54	Integrated
	5.0	1.0m³	200	6.3	7.7	14 x 75	Integrated
	11.0	2.3m³	200	15.1	18.2	18 x 90	Integrated
Air	4.8	0.7m³	150	7.2	8.0	11 x 86	Pin -Index
	47.0	6.8m³	150	63.6	71.7	23 x 153	Handwheel
Allenox™ (50% O <sub>2</sub> / 50% N <sub>2</sub> O)	2.7	600L	-	4.7	6.5	11 x 56	Pin-Index
	10.0	2,000L	-	15.8	22.5	14 x 92	
	47.0	10,000L	-	62.0	93.5	23 x 153	
Nitrous Oxide	2.7	950L	83	4.7	6.5	11 x 56	Pin -Index
	4.8	1,700L	83	7.2	10.4	11 x 86	Pin-Index
	47.0	17,000L	83	62.5	94.0	23 x 153	Handwheel
Carbon Dioxide	2.7	1.8kg	-	4.7	6.5	11 x 56	Pin-Index
	4.8	3.2kg	-	7.2	10.4	11 x 86	
	47.0	31kg	-	64.0	95.0	23 x 153	
Nitrogen	47.0	6.8m³	150	62.5	70.3	23 x 153	Handwheel

## GAS SPECIFICATION

GAS TYPE	PURITY	H <sub>2</sub> O	O <sub>2</sub>	CO	CO <sub>2</sub>
Oxygen	≥ 99.5%	≤ 67 ppm		≤ 5 ppm	≤ 300 ppm
Air		< 50 ppm	21 +/- 0.5%	< 5 ppm	< 500 ppm
Nitrous Oxide	≥ 98%	≤ 67 ppm		≤ 5 ppm	≤ 300 ppm
Nitrogen	99.5%	≤ 67 vpm	≤ 50 vpm		
Carbon Dioxide	99.5%	< 250 vpm			

CO - Carbon Monoxide | CO<sub>2</sub> - Carbon Dioxide | H<sub>2</sub>O - Moisture | O<sub>2</sub> - Oxygen

## Cylinder Color Identification

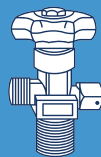


Colour code of Air Liquide Singapore cylinders shown correspond with Singapore Standards SS152. The colour codes are a guide only, the full chemical name being shown on cylinder shoulder labels.

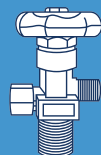
## Valves Specification



Handwheel - Chromed  
5/8" BSPT  
F/RH  
Side Outlet, BS 3  
Oxygen / Air



Handwheel - Chromed  
0.860" 14 TPI  
M/RH  
Side Outlet, BS 8  
Nitrogen



Handwheel - Chromed  
11/16" 20 TPI  
M/RH  
Side Outlet, BS 13  
Nitrous Oxide



Pin Index - Chromed  
Pin/Hole position differ  
from each gas type



# Protecting Patients & Supporting Healthcare Professionals

Our established portfolio of medical gases is used daily, notably in emergency rooms, operating theatres and intensive care units to protect vulnerable lives.

We pursue the clinical developments of these gases for new indications and aim to provide healthcare professionals with solutions for their patients in the continuum of care from hospital to home.

**For more information on the hazard labels for the gases, please refer to:**

<https://industry.airliquide.sg/resources/safety-data-sheets-sds>



SCAN ME



Air Liquide, a world leader in gases, technologies and services for Industry and Health.

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