



A REFERENCE GUIDE FOR INDUSTRIAL & MEDICAL GAS CYLINDERS IDENTIFICATION- COLOUR CODING

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Acknowledgement

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1 Introduction

While cylinder labels remain the primary identification of cylinders, colour coding of cylinders is the most widely used practice as a visual identification. Some countries in Asia have established either national standards and /or Regulatory requirement on colour coding for gas cylinders.

2 Scope and Purpose

The aim of the document is to provide guidance for colour coding of gas cylinders including compressed, liquified and dissolved Acetylene. Whilst this guide may be used by the AIGA National Association member countries, it may also be used by others.

All types of cryogenic containers like portable liquid cylinders, dewars, etc., Electronic Speciality Gases and non-refillable cylinders are not included in the scope.

3 Definitions

For the purpose of this publication, the following definitions apply.

3.1 Publication terminology

3.1.1

Shall

Indicates that the procedure is mandatory. It is used wherever the criterion for conformance to specific recommendations allows no deviation.

3.1.2

Should

3.1.3 Indicates that a procedure is recommended.

3.1.4

May

Indicates that the procedure is optional.

3.1.5

Will

Is used only to indicate the future, not a degree of requirement.

Can

Indicates a possibility or ability.

Reference Standards column in the tables (appendices) cover the National Standards/Local regulation/Practices followed by the Industry.

4 Colour Identification

All gas cylinders are painted externally to provide means for visual identification of cylinders and also to protect from corrosion. The general requirement by various standards are summarised:

- Colour Identification consists of both the body and the shoulder part of the cylinders.
- For mixture gases, colour bands are used generally on the middle part of the cylinders. The primary colour is the major component of gas while the band is to represent a specific colour code.
- Some gases have been assigned specific colour codes. The colour code can be the same colour throughout the cylinders or different colours applied to the shoulder and the body of cylinders.
- Cylinders containing non-specific gases and mixtures painted according to the hazards associated with their contents on their shoulders. Examples:
 - Toxic/Corrosive: Yellow
 - Flammable: Red

Note 1: Aluminium Alloy cylinders may have a different colour-code requirement as compared to steel cylinders.

Note 2: It is a good practice to paint the base of cylinders to prevent corrosion.

Note 3: Some countries determine medical cylinders by using a coloured symbol, e.g., Red Cross.

5 Survey

The following Annexures is a result of a survey carried out by the members of AIGA on industrial and medical gas cylinders colour coding. The survey covers the most commonly used industrial and medical gases and does not include gas mixtures.

6 References

The following were used as references in this publication

- 1 ISO 32, Gas Cylinders for medical use – Marking for Identification of Content
- 2 GB/T 7144, Coloured_cylinder_mark_for_gases
- 3 BS 381C, Specification for colours for identification, coding and special purposes
- 4 Indonesia, Regulation of The Minister of Manpower Republic of Indonesia. Number 37 Year 2016. Occupational Health And Safety Of Pressure Vessel And Storage Tan
- 5 IS:4379, Identification of Contents for Industrial gas Cylinders
- 6 IS : 3933, Colour Identification of gas cylinders and related equipment for medical use.
- 7 SS 152, Specification for identification of contents of industrial gas cylinders
- 8 MS 1023:1999, Specification for identification of the Contents of Industrial Gas Containers
- 9 TIS 88, Identification colours and marking for Industrial Gas Cylinders
- 10 TIS 87, Identification colours and marking for Medical Gas Cylinders
- 11 TCVN 6153-1996, Pressure vessels-Safety engineering requirements of design, construction,manufacture
- 12 CNS 5636, Construction Standard for Steel Cylinder of Liquid Ammonia (Taiwan)
- 13 IS 5-1978, (Colors for Ready Mixed Paints)

7 Annexure A

Cylinder Colour of Industrial Gases by Country

Gas Name	Thailand			Singapore			Korea		
	Cylinder Color	Color Code, Shade, RAL Number	Reference Standard	Cylinder Color	Color Code, Shade, RAL Number	Reference Standard	Cylinder Color	Color Code, Shade, RAL Number	Reference Standard
Acetylene	Crimson	- British Standard Colours BS 381 C no. 540	Thai Industrial Standards Institute TIS.88:2517	Maroon	- British Standard Colours BS 381 C no. 541 (RAL 3007)	Singapore Standard SS152:2016	Yellow	#24. Identification cylinders	HIGH-PRESSURE GAS SAFETY CONTROL ACT
Air	French grey	- British Standard Colours BS 381 C no. 630	Thai Industrial Standards Institute TIS.88:2517	French Grey	- British Standard Colours BS 381 C no. 630 (RAL 7033)	Singapore Standard SS152:2016	Gray	#24. Identification cylinders	HIGH-PRESSURE GAS SAFETY CONTROL ACT
Ammonia	Black body Signal Red (Stripe) Golden Yellow (stripe)	- British Standard Colours BS 381 C no.537 Signal Red no. 356 Golden Yellow Black	Thai Industrial Standards Institute TIS.88:2517	Black body Signal Red (Stripe) Golden Yellow (stripe)	- British Standard Colours BS 381 C no.537 (RAL 3020) no. 356 Golden Yellow (RAL 1003) Black (RAL 9005)	Singapore Standard SS152:2016	White	#24. Identification cylinders	HIGH-PRESSURE GAS SAFETY CONTROL ACT

Carbon dioxide	Black body with white stripe	British Standard Colours BS 381 C White Black	Thai Industrial Standards Institute TIS.88:2517	Black body Shoulder: Silver	Silver (RAL 9006) Black (RAL 9005)	Singapore Standard SS152:2016	Liquefied gas (Blue) others gas (Gray)	#24. Identification cylinders	HIGH-PRESSURE GAS SAFETY CONTROL ACT
Argon	Peacock Blue	- British Standard Colours BS 381 C no. 103	Thai Industrial Standards Institute TIS.88:2517	Peacock Blue	-BS 381 C no. 103 (RAL 5021)	Singapore Standard SS152:2016	Gray	#24. Identification cylinders	HIGH-PRESSURE GAS SAFETY CONTROL ACT
Nitrogen	French grey with black stripe	- British Standard Colours BS 381 C no. 630	Thai Industrial Standards Institute TIS.88:2517	French Grey body Black Shoulder	RAL 9005 - BS 381 C no. 630 (RAL 7033)	Singapore Standard SS152:2016	Gray	#24. Identification cylinders	HIGH-PRESSURE GAS SAFETY CONTROL ACT
Helium	Middle brown	- British Standard Colours BS 381 C no. 411	Thai Industrial Standards Institute TIS.88:2517	Middle brown	-BS 381 C no. 411 (RAL 8008)	Singapore Standard SS152:2016	Gray	#24. Identification cylinders	HIGH-PRESSURE GAS SAFETY CONTROL ACT
Hydrogen	Signal red	- British Standard Colours BS 381 C no. 537	Thai Industrial Standards Institute TIS.88:2517	Signal Red	- British Standard Colours BS 381 C no. 537 (RAL 3000)	Singapore Standard SS152:2016	Orange	#24. Identification cylinders	HIGH-PRESSURE GAS SAFETY CONTROL ACT

Methane	Signal red	- British Standard Colours BS 381 C no. 537	Thai Industrial Standards Institute TIS.88:2517	Signal Red	- British Standard Colours BS 381 C no. 537 (RAL 3000)	Singapore Standard SS152:2016	Gray	#24. Identification cylinders	HIGH-PRESSURE GAS SAFETY CONTROL ACT
Carbon monoxide	Signal red with golden yellow stripe.	- British Standard Colours BS 381 C no. 537	Thai Industrial Standards Institute TIS.88:2517	Signal Red body with Yellow band	-BS 381 C no. 537 (RAL 3000) No.356 (RAL 1018)	Singapore Standard SS152:2016	Gray	#24. Identification cylinders	HIGH-PRESSURE GAS SAFETY CONTROL ACT
Oxygen	Black	British Standard Colours BS 381 C Black	Thai Industrial Standards Institute TIS.88:2517	Black	(RAL 9005)	Singapore Standard SS152:2016	Green	#24. Identification cylinders	HIGH-PRESSURE GAS SAFETY CONTROL ACT

Gas Name	Malaysia			China			Taiwan		
	Cylinder Color	Color Code, Shade, RAL Number	Reference Standard	Cylinder Color	Color Code, Shade, RAL Number	Reference Standard	Cylinder Color	Color Code, Shade, RAL Number	Reference Standard
Acetylene	Maroon	BS 381C no. 541	MS 1023:1999 Specification for Identification of The Contents of Industrial Gas Container	白色 (White)	None	GB/T 7144-2016 气瓶颜色标志 (Coloured_cylinder_mark_for_gases)	Brown/Grey	MUNSELL Color 5R 4/4	Taiwan standard CNS 2724 Refillable weld steel cylinder for dissolved acetylene
Air	French Grey	BS 381C no. 630	MS 1023:1999 Specification for Identification of The Contents of Industrial Gas Container	黑色 (Black)	None	GB/T 7144-2016 气瓶颜色标志 (Coloured_cylinder_mark_for_gases)	Black	MUNSELL Color N-1.0	Taiwan standard CNS 12242 Seamless steel gas cylinders

Ammonia	White body Signal Red & Golden Yellow stripes	BS 381C no. 537 & 356 shoulder BS 381C no. 630 body	MS 1023:1999 Specification for Identification of The Contents of Industrial Gas Container	淡黄色 (light yellow)	Y06	GB/T 7144- 2016 气瓶颜 色标志 (Coloured_cy linder_mark_ for_gases)	White	NA	Taiwan standard CNS 5636 Construction Standard for Steel Cylinder of Liquid Ammonia
Carbon dioxide	Manilla	BS 381C no. 367	MS 1023:1999 Specification for Identification of The Contents of Industrial Gas Container	铝白色 (aluminum white)	None	GB/T 7144- 2016 气瓶颜 色标志 (Coloured_ cylinder mark for_gases)	Jade Green	MUNSELL Color 10 G 5/10 (# 1-65)	Taiwan standard CNS 12242 Seamless steel gas cylinders
Argon	Peacock Blue	BS 381C no. 103	MS 1023:1999 Specification for Identification of The Contents of Industrial Gas Container	銀灰色 (Silvery Grey)	B04	GB/T 7144- 2016 气瓶颜 色标志 (Coloured_cy linder_mark_ for_gases)	Silver Grey	MUNSELL Color 5 PB 6/1 (# 1-36)	Taiwan standard CNS 12242 Seamless steel gas cylinders

Nitrogen	French Grey body with black shoulder	Black shoulder BS 381C no. 630 body	MS 1023:1999 Specification for Identification of The Contents of Industrial Gas Container	黑色 (Black)	N/A	GB/T 7144-2016 气瓶颜色标志 (Coloured_cylinder_mark_for_gases)	Silver Gray	MUNSELL Color 5 PB 6/1 (# 1-36)	Taiwan standard CNS 12242 Seamless steel gas cylinders
Helium	Middle brown	BS 381C no. 411	MS 1023:1999 Specification for Identification of The Contents of Industrial Gas Container	銀灰色 (Silver Grey)	B04	GB/T 7144-2016 气瓶颜色标志 (Coloured_cylinder_mark_for_gases)	Silver Grey	MUNSELL Color 5 PB 6/1 (# 1-36)	Taiwan standard CNS 12242 Seamless steel gas cylinders
Hydrogen	Signal red	BS 381C no. 537	MS 1023:1999 Specification for Identification of The Contents of Industrial Gas Container	淡绿色 (pea green)	G02	GB/T 7144-2016 气瓶颜色标志 (Coloured_cylinder_mark_for_gases)	Vermilion Red	MUNSELL Color 7.5 R 9/20 (# 1-25)	Taiwan standard CNS 12242 Seamless steel gas cylinders

Methane	Signal red	BS 381C no. 537	MS 1023:1999 Specification for Identification of The Contents of Industrial Gas Container	棕色 (Brown)	YR05	GB/T 7144-2016 气瓶颜色标志 (Coloured_cylinder_mark_for_gases)	Vermilion Red		Taiwan standard CNS 12242 Seamless steel gas cylinders
Carbon monoxide	Signal red with Golder yellow shoulder	BS 381C no. 356 shoulder BS 381C no. 630 body	MS 1023:1999 Specification for Identification of The Contents of Industrial Gas Container	銀灰色 (Silver Grey)	B04	GB/T 7144-2016 气瓶颜色标志 (Coloured_cylinder_mark_for_gases)	Vermilion Red		Taiwan standard CNS 12242 Seamless steel gas cylinders
Oxygen	Black	Black	MS 1023:1999 Specification for Identification of The Contents of Industrial Gas Container	淡蓝色 (Light blue)	PB06	GB/T 7144-2016 气瓶颜色标志 (Coloured_cylinder_mark_for_gases)	Black	MUNSELL Color N-1.0	Taiwan standard CNS 12242 Seamless steel gas cylinders

Gas Name	Vietnam			Philippines			Indonesia		
	Cylinder Color	Color Code, Shade, RAL Number	Reference Standard	Cylinder Color	Color Code, Shade, RAL Number	Reference Standard	Cylinder Color	Color Code, Shade, RAL Number	Reference Standard
Acetylene	Red	White	TCVN 6153-1996: Pressure vessels- Safety engineering requirements of design, construction, manufacture	<div style="border: 1px solid black; padding: 10px;"> <p style="color: red; font-size: 1.2em; margin: 0;">No Particular standard or practice followed.</p> </div>			Shoulder: Marron Body : Maroon	Maroon colour 541 in BS 381C (3) or RAL 3007, Black Red. (Body & shoulder)	REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK
Air	Black	Letter color: White	TCVN 6153-1996: Pressure vessels- Safety engineering requirements of design, construction, manufacture				Shoulder: Bright Green Body : Up To Gas Vendor	Air with O2 $\leq 23,5\%$ Bright green RAL 6018	REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK

<p>Ammonia</p>	<p>Yellow</p>	<p>Letter color: Black</p>	<p>TCVN 6153-1996: Pressure vessels- Safety engineering requirements of design, construction, manufacture</p>	<p style="text-align: center; color: red; font-weight: bold;">No Particular standard or practice followed.</p>	<p>Shoulder: Yellow Body: Up To Gas Vendor</p>	<p>Yellow RAL 1018</p>	<p>REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK</p>
<p>Carbon dioxide</p>	<p>Black Given as carbonic Acid)</p>	<p>Letter color: Yellow</p>	<p>TCVN 6153-1996: Pressure vessels- Safety engineering requirements of design, construction, manufacture</p>		<p>Shoulder: Grey Body: Up To Gas Vendor</p>	<p>Grey RAL 7037</p>	<p>REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK</p>
<p>Argon</p>	<p>Wet Argon: Black Technical Argon :Black Pure Argon: Red</p>	<p>Wet Argon: Letter colour: White Technical Argon :Letter Colour: Blue Pure Argon Letter colour: Green</p>	<p>TCVN 6153-1996: Pressure vessels- Safety engineering requirements of design, construction, manufacture</p>		<p>Shoulder: Dark Green Body: Up To Gas Vendor</p>	<p>Dark green RAL 6001</p>	<p>REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK</p>

<p>Nitrogen</p>	<p>Black</p>	<p>Letter colour: White</p>	<p>Japan standard</p>	<p style="text-align: center; color: red; font-weight: bold;">No Particular standard or practice followed.</p>	<p>Shoulder: Black Body: Up To Gas Vendor</p>	<p>Black RAL 9005</p>	<p>REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK</p>
<p>Helium</p>	<p>Brown</p>	<p>Letter color: white</p>	<p>TCVN 6153-1996: Pressure vessels- Safety engineering requirements of design, construction, manufacture</p>		<p>Shoulder: Brown Body: Up To Gas Vendor</p>	<p>Brown RAL 8008</p>	<p>REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK</p>
<p>Hydrogen</p>	<p>Dark green</p>	<p>Letter color: Red</p>	<p>TCVN 6153-1996: Pressure vessels- Safety engineering requirements of design, construction, manufacture</p>		<p>Shoulder: Red Body: Up To Gas Vendor</p>	<p>Red RAL 3000</p>	<p>REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK</p>

Methane	Nipon Pearl Grey	Body & Cap paint: color: Nipon Pearl Grey - B 9006 Letter paint color: Nippon Vermillion - B 9004 Fire symbol paint color: Nippon, Black - B 9051	Japan standard	<div style="border: 1px solid black; padding: 20px; text-align: center;"> <p style="color: red; font-weight: bold; font-size: 1.2em;">No Particular standard or practice followed.</p> </div>	Shoulder: Red Body: Up To Gas Vendor	Red RAL 3000	REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK
Carbon monoxide	Nipon Pearl Grey	Body & Cap paint: color: Nipon Pearl Grey - B 9006 Letter paint color: Nippon Vermillion - B 9005 Fire symbol paint color: Nippon, Black - B 9051	Japanese Gas cylinder Identification Information		Shoulder: Yellow Body: Up To Gas Vendor	No special color for CO, but Co is Toxic gas so color is: Yellow RAL 1018	REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK
Oxygen	Blue	Letter color: Black			Shoulder: Blue or White Body: Up To Gas Vendor	Blue RAL 5012 or White RAL 9010	REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK

Gas Name	India		
	Cylinder Color (GC: Ground Colour, BC: Body Colour, SC: Shoulder colour)	Color Code, Shade, RAL Number (Colour shade as per IS:5)	Reference Standard
Acetylene	GC:- Maroon Shoulder - GC	GC:- (541) , BC:- NONE	IS:4379-2021 IS 5
Air	GC:- French Grey Shoulder - GC	GC:- (630) BC:- NONE	IS:4379-2021 IS 5
Ammonia	GC:- Graphite Black Shoulder - Signal Red BC - Golden Yellow	GC : Graphite Black, Shoulder : (537) BC (356)	IS:4379-2021 IS 5
Carbon dioxide	GC:- Graphite Black Shoulder - White or Aluminum Paint BC - Graphite Black	GC:- Graphite Black Shoulder - White or Aluminum Paint BC - Graphite Black	IS:4379-2021 IS 5
Argon	GC:- Peacock Blue Shoulder - GC	GC:- (103) , BC:- NONE	IS:4379-2021 IS 5
Nitrogen	GC:- French Grey Shoulder - Graphite Black BC - Bottle Green	GC:- (630) Shoulder - Graphite Black BC - Bottle Green	IS:4379-2021 IS 5
Helium	GC:- Middle Brown Shoulder - GC	GC:- (411) , BC:- NONE	IS:4379-2021 IS 5
Hydrogen	GC:- Signal Red Shoulder - GC	GC:- (537) , BC:- NONE	IS:4379-2021 IS 5
Methane	GC:- White Shoulder - Signal Red	GC:- (White) Shoulder : (537) BC:- NONE	IS:4379-2021 IS 5-1978
Carbon monoxide	GC:- Signal Red Shoulder - Golden Yellow BC - Signal Red	GC:- (537) Shoulder - 356 BC - 537	IS:4379-2021 IS 5
Oxygen	GC:- Graphite Black Shoulder - Ground Color	GC:- Graphite Black Shoulder : Ground Color BC:- NONE	IS:4379-2021 IS 5

8 Annexure B

Cylinder Color of Medical Gases by Country

	Thailand		*Singapore		Malaysia		Philippines		Indonesia	
	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard
Medical Air	- British Standard Colours BS 381 C no. 630 french grey with emerald green band	TIS-88:2517 /DIN EN 1089-3	White & Black	ISO 32	Black & white shoulder BS 381C no 630 (Fench grey) body	MS 2583:2014 Identification of The Contents of Medical Gas Containers	No Particular standard or practice followed.		Shoulder : white and black RAL 9005 Body :	REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK
Medical Oxygen	- British Standard Colours BS 381 C no. 228 Emerald green	TIS-88:2517 /DIN EN 1089-3	White	ISO 32	White shoulder Black body	MS 2583:2014 Identification of The Contents of Medical Gas Containers	Green	Bureau of product Standards (BPS)	Shoulder : white RAL 9010 Body : white	REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK
Nitrus Oxide	- British Standard Colours BS 381 C no. 166 french blue	TIS-88:2517 /DIN EN 1089-3	Blue	ISO 32	BS 381 C no 166 (French Blue)	MS 2583:2014 Identification of The Contents of Medical Gas Containers	No Particular standard or practice followed.		Shoulder :blue RAL 5010	REGULATION OF THE MINISTER OF MANPOWER REPUBLIC OF INDONESIA. NUMBER 37 YEAR 2016. OCCUPATIONAL HEALTH AND SAFETY OF PRESSURE VESSEL AND STORAGE TANK

* Singapore: Colour code reference is taken from SS 639-1. The legacy practice is same as Malaysia and the old BS system.

	Korea		China		Taiwan		India			Vietnam	
	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard	Cylinder Color (Steel)	Cylinder Color (Aluminum)	Reference Standard	Cylinder Color (Steel)	Reference Standard
Medical Air	White (note top should have 2 stripes of green banding 2 cm wide)	KGS(Korea Gas Safety) KGS AC212	Black	GB/T 7144-2016	Black(MUNSELL Color N-1.0)	Taiwan standard CNS 12242 Seamless steel gas cylinders	Valve End - White and Black Body - French Grey (No.630)	Valve End - White and Black Body - Original Al cylinder color	IS3933 IS 5	White + black	TCVN 6293-1993 (equivalent to ISO 32:1977) Gas cylinders - Gas cylinders for medical use - Marking for identification of content
Medical Oxygen	Grey (note top should have 2 stripes of green banding 2 cm wide)	KGS(Korea Gas Safety) KGS AC212	Blue (PB 06)	GB/T 7144-2016	Black (MUNSELL Color N-1.0)	Taiwan standard CNS 12242 Seamless steel gas cylinders	Valve End - White Body - Black	Valve End - White Body - Original Al cylinder color	IS3933 IS 5	White	TCVN 6293-1993 (equivalent to ISO 32:1977) Gas cylinders - Gas cylinders for medical use - Marking for identification of content
Nitrous Oxide	Blue (note top should have 2 stripes of white banding 2 cm wide)	KGS(Korea Gas Safety) KGS AC212	Silver grey (B 04)	GB/T 7144-2016	Peacock Blue (MUNSELL Color 5PB 3/10)	Taiwan standard CNS 12242 Seamless steel gas cylinders	Valve End - French Blue (No.166) Body - French Blue (No.166)	Valve End - French Blue (no.166) Body - Original Al cylinder color	IS3933 IS 5	Blue	TCVN 6293-1993 (equivalent to ISO 32:1977) Gas cylinders - Gas cylinders for medical use - Marking for identification of content

	Thailand		Singapore		Korea		Malaysia	
	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard
Medical Air	French gray with Emerald Green on cylinder neck	TIS-88:2517 /DIN EN 1089-3	Grey in body, White plus black in shoulder	ISO 32	White (note top should have 2 stripes of green banding 2 cm wide)	KGS(Korea Gas Safety) AC212	Grey in body, White plus black in shoulder	ISO 32
Medical Oxygen	Emerald Green with white band and red cross on cylinder neck/shoulder	TIS-88:2517 /DIN EN 1089-3	Black body and white shoulder	ISO 32	Grey (note top should have 2 stripes of green banding 2 cm wide)	KGS(Korea Gas Safety) AC212	Black body and white shoulder	ISO 32
Nitrous Oxide	French Blue with white cross on cylinder neck/shoulder	TIS-88:2517 /DIN EN 1089-3	Blue	ISO 32	Blue (note top should have 2 stripes of white banding 2 cm wide)	KGS(Korea Gas Safety) AC212	Blue	ISO 32

	China		Hong Kong		Taiwan	
	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard
Medical Air	black	GB/T 7144-2016	Grey in body, White plus black in shoulder	ISO 32	Black	TW IGA practice
Medical Oxygen	blue	GB/T 7144-2016	Black body and white shoulder	ISO 32	Black	TW IGA practice
Nitrous Oxide	silver grey (white)	GB/T 7144-2016	Blue	ISO 32	Blue	TW IGA practice

	Philippines		Indonesia		India			Japan	
	Cylinder Color	Reference Standard	Cylinder Color	Reference Standard	Cylinder Color (Steel)	Cylinder Color (Aluminum)	Reference Standard	Cylinder Color	Reference Standard
Medical Air	No standard		Shoulder : white and black RAL 9005 Body :	government regulation	Valve End - White and Black Body - Grey	Valve End - White and Black Body - Original Al cylinder color	IS3933	gray (Compressed air is not medicinal gas in Japan)	High Pressure Gas Safety Act, Safety Regulations for Containers
Medical Oxygen	No standard		Shoulder : white RAL 9010 Body : white		Valve End - White Body - Black	Valve End - White Body - Original Al cylinder color	IS3933	black	High Pressure Gas Safety Act, Safety Regulations for Containers
Nitrous Oxide	No standard		Shoulder :blue RAL 5010		Valve End - Blue Body - Blue	Valve End - Blue Body - Original Al cylinder color	IS3933	gray (Valve end - blue is Japanese industry custom, not ruled by regulation)	High Pressure Gas Safety Act, Safety Regulations for Containers