

# Medical Gases

Cylinder identification pocket guide

# Identification of medical gas cylinders

## ALWAYS USE THE CYLINDER LABEL AS THE PRIMARY MEANS OF IDENTIFICATION

The contents of BOC medical gas cylinders appear on the label affixed to the shoulders, body or cylinder collar. Cylinder shoulders are also colour coded and fitted with different valve outlets to provide product differentiation. A cylinder without a legible label should not be used. Please return to BOC to obtain a replacement.

### Dangerous Goods class

All medical gases are Class 2 Dangerous Goods.



A green diamond indicates that the contents are non-flammable and non-toxic as defined by the Australian Dangerous Goods Code.



A yellow diamond indicates an oxidising gas.

### Cylinder labelling identification

The diagram shows a BOC Medical EP Grade Oxygen Compressed cylinder label. It includes a barcode, a green diamond hazard symbol (Class diamond), a yellow diamond hazard symbol (OXIDISING GAS 2), and a white label with the following information:

**BOC**  
A Member of The Linde Group

**Medical EP Grade  
Oxygen Compressed**

BOC United ABN 95 089 609 728  
Customer Service 1300 363 109  
AUST R 14450

**Gas code**  
Code **400**  
Size **CD**  
Ltrs **630**  
sm<sup>3</sup> 0.63  
Grade **EP**  
UN No. **1072**

**Content**  
Size

**Class diamond**

**REV 1/02**






**Outlet Oxygen Flowrates @ 400Psi/g**  
Slowe Inlet: 4520PM;  
350 (ps)max;  
Barbed Tap: 15 ltrn max

**Risks**  
- Heat, fire or impact damage may lead to cylinder rupture  
- Strongly supports combustion  
- Compressed, high pressure cylinder

**Safety**  
- Keep and use in a well ventilated area  
- Keep away from combustible materials  
- Do not smoke  
- Use no oil or grease  
- Keep dry, clean and preferably under cover  
- Additional information is available in MSDS (www.boc.com.au)

**Use**  
- Use only equipment compatible with oxygen  
- Check cylinder contents and remove tamper evident seal  
- Check clockwise flow control (black knob) is set at 0 (zero) and open valve slowly  
- Close cylinder valve with moderate force only after use  
- For use only by or under the supervision of qualified medical professionals  
- Consumer Medicine Information on use and contraindications is available on request

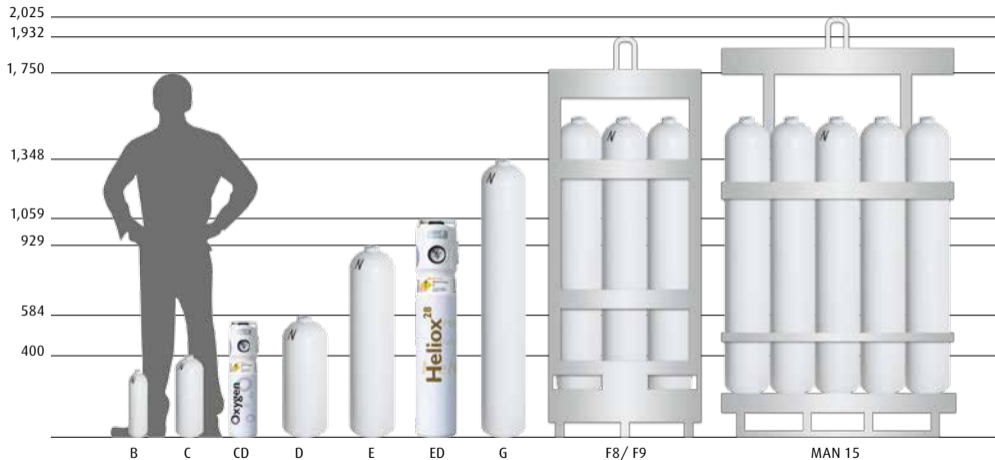
## Colour coded identification

	<b>Inhalo®</b> O <sub>2</sub>	<b>Oxygen</b> O <sub>2</sub>	<b>Nitrous oxide</b> N <sub>2</sub> O	<b>Entonox®</b> N <sub>2</sub> O/O <sub>2</sub>	<b>Air</b>
<b>Shoulder colour:</b>	White	White	Ultramarine	Ultramarine & White	Black & White
<b>Gas code:</b>	400	400	610	570	470
<b>Sizes:</b>	CD	B, C, ND, NE, NG	C, D, E, G	C, D, E, G	C, D, E, G
					
					

## Colour coded identification

	<b>Carbon dioxide</b> CO <sub>2</sub>	<b>Carbon dioxide</b> CO <sub>2</sub> Liquid withdrawal	<b>Carbogen</b> CO <sub>2</sub> /O <sub>2</sub>	<b>Helium</b> He	<b>Heliox</b> He/O <sub>2</sub>
<b>Shoulder colour:</b>	Green/Grey	Green/Grey	Green/Grey & White	Brown	Brown & White
<b>Gas code:</b>	530	530	555	590	655
<b>Sizes:</b>	C, D, E, G	C, D, E, G	D, E, G	C, D, G	CD, ED
					

## Size identification



Note: Cylinder heights are approximations only and do not include valves except for CD & ED cylinders with the INHALO® integrated valve device. For cylinder height with valve add an additional 80 - 105 mm.

## Medical Oxygen cylinder duration in hours and minutes (h:m)

Code/Size	400 B	400 C	400 CD	400 ND	400 NE	400 NG	400 NF9	400 NMAN15
Content*	170	490	630	1,600	4,000	8,075	51,930	126,000
1 lpm	2:50	8:10	10:30	26:40	66:40	134:35	856:30	2,100:00
2 lpm	1:25	4:05	5:15	13:20	33:20	67:17	432:45	1,050:00
3 lpm	0:56	2:43	3:30	8:53	22:13	44:51	288:30	700:00
4 lpm	0:42	2:03	2:37	6:40	16:40	33:38	216:22	525:00
5 lpm	0:34	1:38	2:06	5:20	13:20	26:55	173:06	420:00
6 lpm	0:28	1:21	1:45	4:26	11:06	22:25	144:15	350:00
7 lpm	0:24	1:10	1:30	3:48	9:31	19:13	123:38	300:00
8 lpm	0:21	1:01	1:18	3:20	8:20	16:49	108:11	262:30
10 lpm	0:17	0:49	1:03	2:40	6:40	13:27	86:33	210:00
15 lpm	0:11	0:32	0:42	1:46	4:26	8:58	57:42	140:00

Duration is an approximation only. \*Content (gas volume) in Litres (at 101.3 kPa 15 °C).

## Medical cylinder gas content in litres (at 101.3 kPa 15°C)

Gas type (Code)/Size	B	C	CD	D	E	ED	G	F8	F9	MAN15
Oxygen (400)	170	490	630	1,600*	4,000*	-	8,075*	-	51,930*	126,600*
Nitrous Oxide (610)	-	935	-	3,520	8,970	-	18,690	124,400	-	-
Entonox (570)	-	500	-	1,600	4,000	-	-	-	-	-
Medical Air (470)	-	470	-	1,525	3,750	-	7,500	51,300	-	115,400
Carbon Dioxide (530)	-	935	-	3,200	8,000	-	16,550	-	-	-
Carbogen (555)	-	-	-	1,500	3,800	-	7,600	-	-	-
Helium (590)	-	410	-	1,400	-	-	7,300	-	-	-
Heliox (655)	-	-	510	-	-	3,500	-	-	-	-

\* Refers to oxygen cylinder packages ND, NE, NG, NF9 and NMAN15. 1,000 litres = 1 cubic metre.

Should you have any queries or would like more information on the safe handling and storage of medical gases, please contact your BOC Territory Manager or call the BOC Customer Service Centre on:

**Australia:** BOC Limited ABN 95 000 029 729,  
BOC Healthcare 10 Julius Ave, North Ryde NSW 2113

**Hospitalcare: T:** 1300 363 109 **F:** 1300 363 438

**E:** hospital.care@boc.com **W:** www.bochealthcare.com.au

**New Zealand:** BOC Limited WN007748,  
BOC Healthcare NZ, 988 Great South Rd, Penrose Auckland

**Hospitalcare: T:** 0800 656 334

**F:** 0800 275 275 **E:** HealthcareNZ@boc.com

**W:** www.bochealthcare.co.nz

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