

BOC medical gas cylinders

Identification of medical gas cylinders

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

Colour-coded identification

	Inhalo® O ₂	Oxygen O ₂	Nitrous oxide N ₂ O	Entonox® N ₂ O/O ₂	Air	Carbon dioxide CO ₂	Carbon dioxide Liquid withdrawal	Carbogen CO ₂ /O ₂	Helium He	Heliox He/O ₂	Pin index valve
Shoulder colour:	White	White	Ultramarine	Ultramarine & White	Black & White	Green/Grey	Green/Grey	Green/Grey & White	Brown	Brown & White	
Gas code:	400	400	610	570	470 480	530	530	555	590	655	
Sizes:	CD	B, C, ND, NE, NG 2,5	C, D, E, G 3,5	C, D, E, G Single centered pin	C, D, E, G EHP 1,5	C, D, E, G 1,6	DE, EE 1,6	D, E, G 2,6	C, D, G 4,6	CD, ED Integrated Valve	
Pin index:	Integrated Valve										Pin configuration differs with gas type.



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.



Class 2.1



2.2



2.2/5.1



2.3

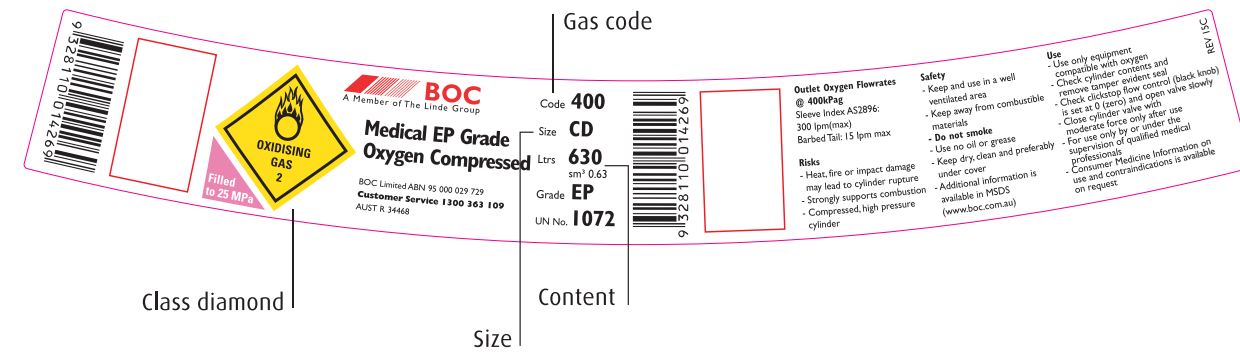
Gases of Class 2.1 shall be segregated from those of Class 2.3 and 2.2/5.1 by at least 3m



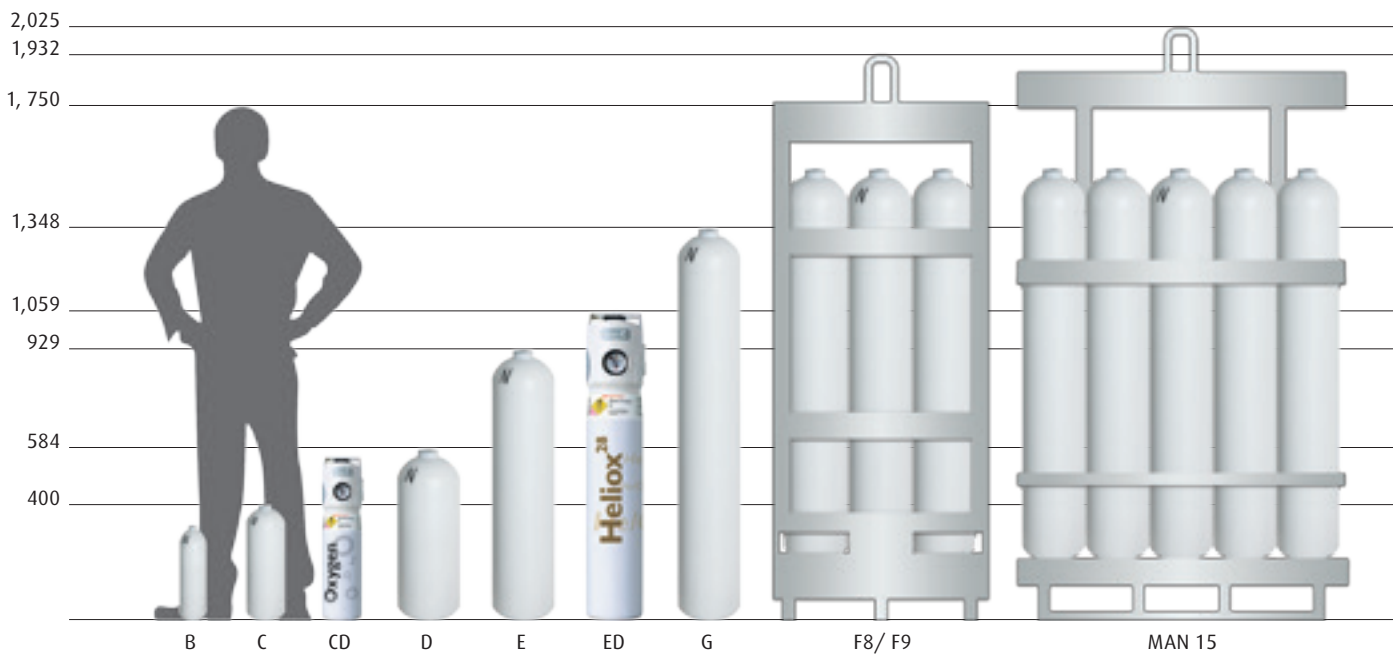
A yellow diamond indicates an oxidising gas.

Gases of class 2.3 shall be segregated from gases of Class 2.1 or 2.2/5.1 by at least 3m

Cylinder labelling identification



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
Contents *	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. *Gas volume – Litres (at 101.3 kPa 15 °C).

Weight of full cylinders (kg)

Gas type (code)/size	B	C	CD	D**	E**	G**	F8	F9**	MAN15**
Oxygen (400)	2.12	4.28	4.4^	12.4	28.1	68.6	-	542	1466
Nitrous Oxide (610)	-	5.16	-	16.6	39.0	94.0	763	-	-
Entonox (570)	-	4.32	-	13.2	29.5	-	-	-	-
Medical Air (470)	-	3.94	-	12.4	27.1	66.4	593	-	1437
Carbon Dioxide (530)	-	5.14	-	16.0	37.0	75.0	-	-	-
Carbogen (500)	-	3.93	-	13.1	33.3	60.7	-	-	-
Helium (590)	-	3.37	-	11.2	-	51.2	-	-	-
Heliox (655)	-	-	4.7	-	25.4*	-	-	-	-

Full cylinder weights are approximations only and may vary within specification. *ED size. ^Twin pack weight 11.0kg **For Oxygen insert 'N' prefix.

Handle medical gases safely

1. Store in well ventilated areas


2. Secure upright with restraint


3. Check cylinder for unique barcode


4. Read labels before use
Always use the label as the primary means of identification


5. Keep full and empty cylinders separate


6. Wear safety clothing


7. Never move cylinder with the wrong type of trolley


8. Keep free from sources of ignition


9. Never knock violently or allow to fall


10. Keep free from oil and grease


11. Do not use force when opening or closing valves

