

Medical gas cylinder data chart





Oxygen



Integral valve

Cylinder code	CD	ZD	HX	ZX	ZH ⁽²⁾	DF ⁽²⁾
Cylinder order code	101-CD	101-ZD	101-HX	101-ZX	101-ZH	101-DF
Nominal contents (litres)	460	600	2300	3040	2400	1360
Nominal cylinder pressure (bar)	230	300	230	300	300	137
Nominal outlet pressure (bar)	4	4	4	4	4	4
Valve outlet flow connection	6mm firtree	6mm firtree	6mm firtree	6mm firtree	6mm firtree	6mm firtree
Valve outlet pressure connection	Oxygen Schrader (BS 5682)	Oxygen Schrader (BS 5682)	Oxygen Schrader (BS 5682)	Oxygen Schrader (BS 5682)	Oxygen Schrader (BS 5682)	Oxygen Schrader (BS 5682)
Valve operation	handwheel	handwheel	handwheel	handwheel	handwheel	handwheel
Flow-rate (litres/min)	Firtree: 1-15/Schrader: 40	Firtree: 1-15/Schrader: 40	Firtree: 1-15/Schrader: 40	Firtree: 1-15/Schrader: 40	Firtree: 2-4/Schrader: 40	2-4
Dimensions* L x D (mm)	520 x 100	525 x 101	930 x 140	930 x 143	595 x 175	690 x 175
Water capacity (litres)	2.0	2.0	10.0	10.0	8.0	9.4
Nominal weight full (kg)	3.5	4.06	19.0	14.0	14.0	12.0

Cylinder code	ZA	ZB	ZC ⁽²⁾	AD ⁽¹⁾	DD ⁽²⁾
Cylinder order code	101-ZA	101-ZB	101-ZC	139-AD	109-DD
Nominal contents (litres)	300	300	300	460	460
Nominal cylinder pressure (bar)	300	300	300	230	230
Nominal outlet pressure (bar)	4	4	4	4	4
Valve outlet flow connection	6mm firtree	6mm firtree	6mm firtree	6mm firtree	6mm firtree
Valve operation	handwheel	handwheel	handwheel	handwheel	handwheel
Flow-rate (litres/min)	0.1 - 15	1 - 15	0.1 - 5	8	2-4
Dimensions* L x D (mm)	390 x 85	390 x 85	390 x 85	480 x 100	520 x 100
Water capacity (litres)	1.0	1.0	1.0	2.0	2.0
Nominal weight full (kg)	1.75	2.7	2.7	4.0	3.5



Oxygen



Standard valve

Cylinder code	AZ	C	D	E	J
Cylinder order code	298121-AZ	101-C	101-D	101-E	101-J
Nominal contents (litres)	170	170	340	680	6800
Nominal cylinder pressure (bar)	137	137	137	137	137
Valve outlet connection	Pin-index	Pin-index	Pin-index	Pin-index	Pin-index (side spindle)
Valve outlet specification	ISO 407	ISO 407	ISO 407	ISO 407	ISO 407
Valve operation	key	key	key	key	key
Dimensions* L x D (mm)	290 x 106	430 x 89	535 x 102	865 x 102	1320 x 229
Water capacity (litres)	1.2	1.2	2.3	4.7	47.2
Nominal weight full (kg)	2.5	2.5	3.9	6.5	78.0

Cylinder code	AF ⁽²⁾	F	G
Cylinder order code	101-F	101-F	101-G
Nominal contents (litres)	1360	1360	3400
Nominal cylinder pressure (bar)	137	137	137
Valve outlet connection	5/8" BSP (F)	5/8" BSP (F)	5/8" BSP (F)
Valve outlet specification	BS 341 No.3 (Bullnose)	BS 341 No.3 (Bullnose)	BS 341 No.3 (Bullnose)
Valve operation	key	key	key
Dimensions* L x D (mm)	670 x 175	930 x 140	1320 x 178
Water capacity (litres)	9.4	9.4	23.6
Nominal weight full (kg)	12.0	17.0	39.0

Key notes:

⁽¹⁾ The indicated cylinders are for specialised applications and availability is restricted.

⁽²⁾ For domiciliary use only.

*(inc valve)



Nitrous oxide



Standard valve

Cylinder code	AZ	C	D	E	F	G	J
Cylinder order code	298122-AZ	141-C	141-D	141-E	141-F	141-G	141-J
Nominal contents (litres)	450	450	900	1800	3600	9000	18000
Nominal cylinder pressure (bar)	44	44	44	44	44	44	44
Valve outlet connection	Pin-index	Pin-index	Pin-index	Pin-index	11/16" x 20 TPI (M)	11/16" x 20 TPI (M)	11/16" x 20 TPI (M)
Valve outlet specification	ISO 407	ISO 407	ISO 407	ISO 407	BS 341 No 13	BS 341 No 13	BS 341 No 13
Valve operation	key	key	key	key	handwheel	handwheel	handwheel
Dimensions* L x D (mm)	290 x 106	430 x 89	535 x 102	865 x 102	930 x 140	1320 x 178	1520 x 229
Water capacity (litres)	1.20	1.20	2.32	4.68	9.43	23.60	47.20
Nominal weight full (kg)	3.0	2.0	5.0	9.0	22.0	52.0	105.0



ENTONOX® (50% O₂/50% N₂O)



Integral valve

Cylinder code	EA	ED	HX	EX
Cylinder order code	211-EA	211-ED	211-HX	211-EX
Nominal contents (litres)	350	700	2200	3500
Nominal cylinder pressure (bar)	217	217	137	217
Nominal outlet pressure (bar)	4	4	4	4
Valve outlet pressure connection	Entonox Schrader (BS 5682)	Entonox Schrader (BS 5682)	Entonox Schrader (BS 5682)	Entonox Schrader (BS 5682)
Valve operation	handwheel	handwheel	handwheel	handwheel
Flow-rate(litres/min)	Schrader: 40	Schrader: 40	Schrader: 40	Schrader: 40
Dimensions* L x D (mm)	366 x 85	520 x 100	940 x 140	940 x 140
Water capacity (litres)	1.0	2.0	10.0	10.0
Nominal weight full (kg)	2.4	4.0	19.0	19.8

ENTONOX (50% O₂/50% N₂O)



Standard valve

Cylinder code	D	F	G
Cylinder order code	211-D	211-F	211-G
Nominal contents (litres)	500	2000	5000
Nominal cylinder pressure (bar)	137	137	137
Nominal outlet pressure (bar)	4	4	4
Valve outlet connection	Pin-index	Pin-index	Pin-index
Valve outlet specification	ISO 407	ISO 407	ISO 407
		(side spindle)	
Valve operation	key	key	key
Dimensions* L x D (mm)	535 x 102	930 x 140	1320 x 178
Water capacity (litres)	2.32	9.43	23.60
Nominal weight full (kg)	4.0	18.0	43.0



Helium



Standard valve

Cylinder code	F
Cylinder order code	163-F
Nominal contents (litres)	1200
Nominal cylinder pressure (bar)	137
Valve outlet connection	5/8" BSP (F)
Valve outlet specification	BS 341 No.3
	(Bullnose)
Valve operation	key
Dimensions* L x D (mm)	930 x 140
Water capacity (litres)	9.43
Nominal weight full (kg)	17.0



HELIOX21 (79% He/21% O₂)



Integral valve

Cylinder code	HX
Cylinder order code	173-HX
Nominal contents (litres)	1780
Nominal cylinder pressure (bar)	200
Nominal outlet pressure (bar)	4
Valve outlet flow connection	6mm firtree
Valve outlet pressure connection	Heliox Schrader (BS 5682)
Valve operation	handwheel
Flow-rate(litres/min)	Firtree: 1-15 / Schrader: 40
Dimensions* L x D (mm)	940 x 140
Water capacity (litres)	10.0
Nominal weight full (kg)	15.5



Standard valve

Cylinder code	HL
Cylinder order code	173-HL
Nominal contents (litres)	8200
Nominal cylinder pressure (bar)	200
Nominal outlet pressure (bar)	4
Valve outlet connection	Side outlet
Valve outlet specification	ISO 5145 No.26
Valve operation	handwheel
Dimensions* L x D (mm)	1540 x 230
Water capacity (litres)	50.0
Nominal weight full (kg)	85.0



Carbon dioxide



Standard valve

Cylinder code	C	E	LF	VF
Cylinder order code	201-C	201-E	201-LF	201-VF
Nominal contents (litres)	450	1800	3600	3600
Nominal cylinder pressure (bar)	50	50	50	50
Valve outlet connection	Pin-index	Pin-index	0.860" x 14 TPI (M)	0.860" x 14 TPI (M)
Valve outlet specification	ISO 407	ISO 407	BS 341 No.8	BS 341 No.8
Valve operation	key	key	handwheel	handwheel
Dimensions* L x D (mm)	430 x 89	865 x 102	930 x 140	930 x 140
Water capacity (litres)	1.20	4.68	9.43	9.43
Nominal weight full (kg)	3.0	8.5	22.0	22.0



Oxygen/Carbon dioxide mixture (95% O₂/5% CO₂)



Cylinder code	F	G	J
Cylinder order code	131-F	131-G	131-J
Nominal contents (litres)	1360	3400	6800
Nominal cylinder pressure (bar)	137	137	137
Valve outlet connection	5/8" BSP (F)	5/8" BSP (F)	5/8" BSP (F)
Valve outlet specification	BS 341 No.3	BS 341 No.3	BS 341 No.3
	(Bullnose)	(Bullnose)	(Bullnose)
Valve operation	key	key	key
Dimensions* L x D (mm)	930 x 140	1320 x 178	1520 x 229
Water capacity (litres)	9.43	23.6	47.2
Nominal weight full (kg)	17.0	39.0	78.0

**Air****Standard valve**

Cylinder code	AZ	E	F	G	J
Cylinder order code	298123-AZ	191-E	191-F	191-G	191-J
Nominal contents (litres)	160	640	1280	3200	6400
Nominal cylinder pressure (bar)	137	137	137	137	137
Valve outlet connection	Pin-index	Pin-index	5/8" BSP (F)	5/8" BSP (F)	Pin-index
Valve outlet specification	ISO 407	ISO 407	BS 341 No.3 (Bullnose)	BS 341 No.3 (Bullnose)	ISO 407 (side spindle)
Valve operation	key	key	key	key	key
Dimensions* L x D (mm)	290 x 106	865 x 102	930 x 140	1320 x 178	1520 x 229
Water capacity (litres)	1.2	4.7	9.4	23.6	47.2
Nominal weight full (kg)	2.5	6.5	17.0	39.0	78.0



Special gas mixtures



Lung Function mixtures Types 1-4



Cylinder code	AV	AK
Cylinder order code	Various	Various
Nominal contents (litres)	1500	6000
Nominal cylinder pressure (bar)	150	150
Valve outlet connection	5/8" BSP (F) (LH) (Side Outlet)	5/8" BSP (F) (LH) (Side Outlet)
Valve outlet specification	BS 341 No.3 (Bullnose)	BS 341 No.3 (Bullnose)
Valve operation	handwheel	handwheel
Dimensions* L x D (mm)	680 x 180	1540 x 230
Water capacity (litres)	10.0	40.0
Nominal weight full (kg)	18.0	59.0



Carbon dioxide/oxygen mixtures

Cylinder code	(5% CO ₂ /95% O ₂)		(10% CO ₂ /90% O ₂)		(20% CO ₂ /80% O ₂)	
	AV	L	AV	L	AV	L
Cylinder order code	299031-AV-PC	299031-L-PC	299032-AV-PC	299032-L-PC	299954-AV-PC	299033-L-PC
Nominal contents (litres)	1460	7300	1460	7300	1530	7650
Nominal cylinder pressure (bar)	137	137	137	137	137	137
Valve outlet connection	5/8" BSP (F) (Side Outlet)	5/8" BSP (F) (Side Outlet)	5/8" BSP (F) (Side Outlet)	5/8" BSP (F) (Side Outlet)	5/8" BSP (F) (Side Outlet)	5/8" BSP (F) (Side Outlet)
Valve outlet specification	BS 341 No.3 (Bullnose)	BS 341 No.3 (Bullnose)	BS 341 No.3 (Bullnose)	BS 341 No.3 (Bullnose)	BS 341 No.3 (Bullnose)	BS 341 No.3 (Bullnose)
Valve operation	handwheel	handwheel	handwheel	handwheel	handwheel	handwheel
Dimensions* L x D (mm)	680 x 180	1540 x 230	680 x 180	1540 x 230	680 x 180	1540 x 230
Water capacity (litres)	10.0	50.0	10.0	50.0	10.0	50.0
Nominal weight full (kg)	19.0	85.0	19.0	86.0	19.0	87.0



Carbon dioxide/air mixture (5% CO₂/95% Air)

Cylinder code	AV	L
Cylinder order code	299034-AV-PC	299034-L-PC
Nominal contents (litres)	1350	6750
Nominal cylinder pressure (bar)	137	137
Valve outlet connection	5/8" BSP (F) (Side Outlet)	5/8" BSP (F) (Side Outlet)
Valve outlet specification	BS 341 No.3 (Bullnose)	BS 341 No.3 (Bullnose)
Valve operation	handwheel	handwheel
Dimensions* L x D (mm)	680 x 180	1540 x 230
Water capacity (litres)	10.0	50.0
Nominal weight full (kg)	18.0	82.0



Helium/oxygen/nitrogen mixture (56% N₂/35% O₂/9% He)

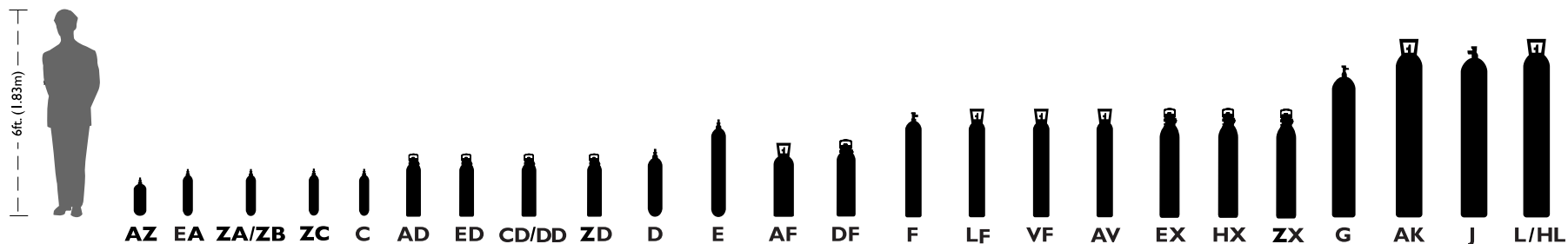
Cylinder code	AV	L
Cylinder order code	299035-AV-PC	299035-L-PC
Nominal contents (litres)	1310	6580
Nominal cylinder pressure (bar)	137	137
Valve outlet connection	5/8" BSP (F) (Side Outlet)	5/8" BSP (F) (Side Outlet)
Valve outlet specification	BS 341 No.3 (Bullnose)	BS 341 No.3 (Bullnose)
Valve operation	handwheel	handwheel
Dimensions* L x D (mm)	680 x 180	1540 x 230
Water capacity (litres)	10.0	50.0
Nominal weight full (kg)	18.0	81.0

Key notes:

- (1) The indicated cylinders are for specialised applications and availability is restricted.
- (2) For domiciliary use only.

*(inc valve)

Cylinder types



Valve types



Pin index valves



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