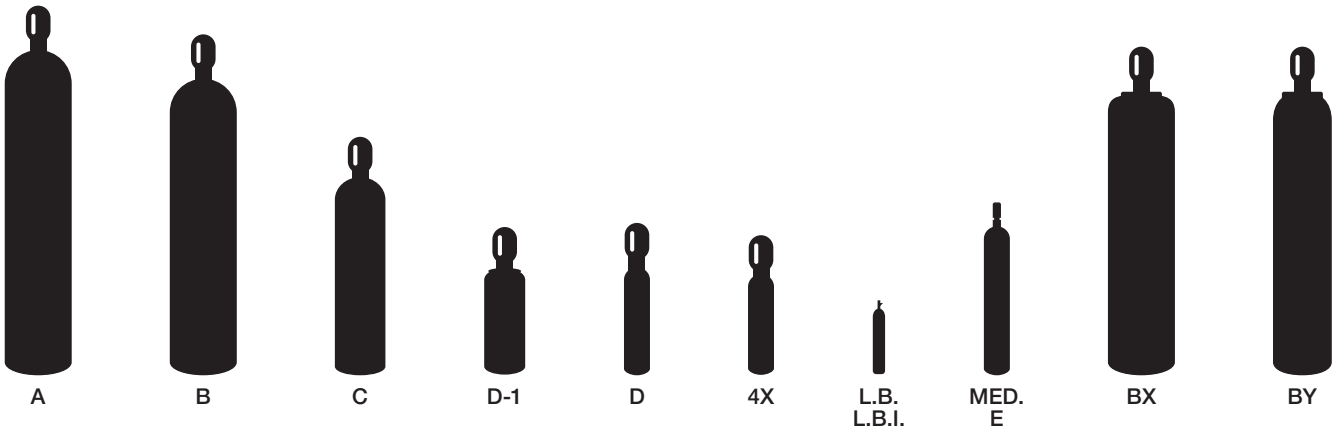
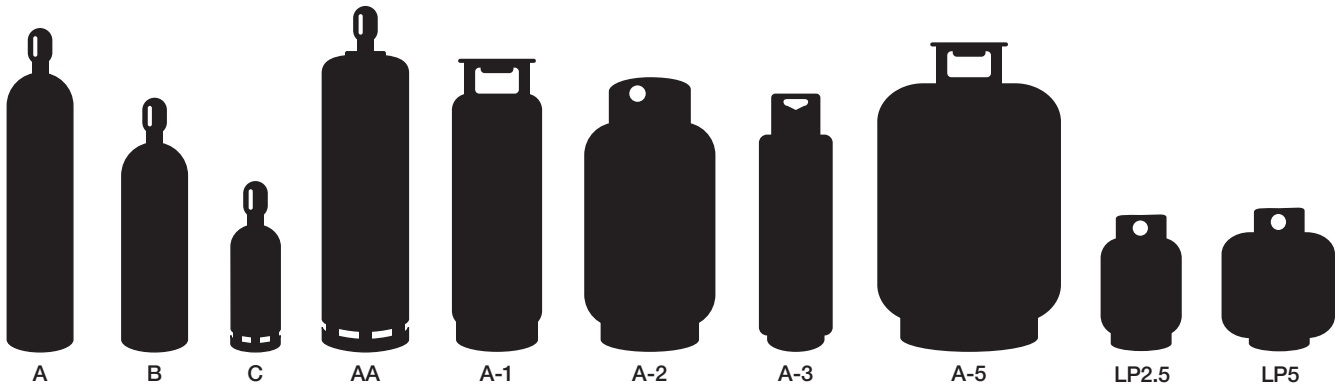
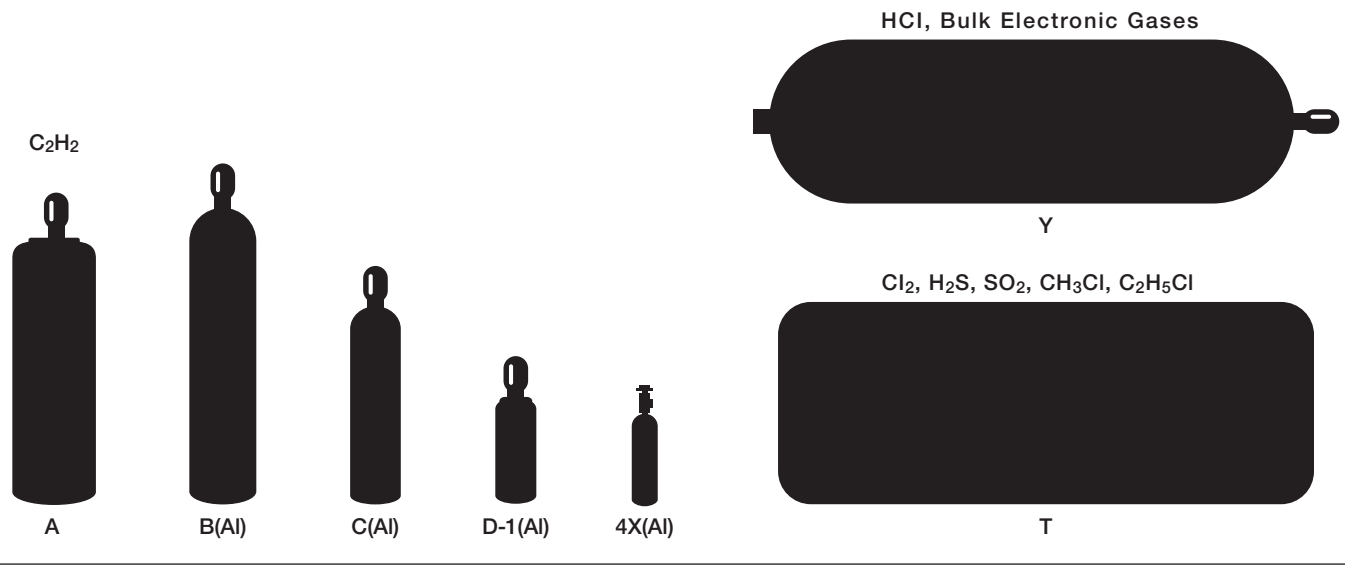
Specialty Gas Cylinder Information

High-Pressure



Low-Pressure





AIR PRODUCTS

Specialty Gas Cylinder Dimensions

Size	Product Number Description Digits	DOT Specification	Nominal* Dimensions (Excluding Valve and Cap) in	(cm)	Average Tare Weight lb	(kg)	Average Internal Volume ft^3	(L)
High Pressure								
A	01	3AA2400	9 x 55	(23 x 140)	137	(62)	1.76	(49.8)
B	02	3AA2265	9 x 51	(23 x 130)	119	(54)	1.55	(43.9)
C	03	3A2015	7 x 33	(18 x 84)	57	(26)	0.56	(15.9)
D-1	04	3A2015	7 x 19	(18 x 48)	26	(12)	0.26	(7.4)
D	05	3AA2015	4 x 17	(10 x 43)	9	(4)	0.10	(2.8)
4X	46	3AA2015	4 x 13	(10 x 33)	6.6	(3)	0.075	(2.12)
L.B.I.	X6	3E1800	2 x 12	(5 x 30)	2	(0.7)	0.015	(0.43)
L.B.	06	3E1800	2 x 12	(5 x 30)	2	(0.9)	0.015	(0.43)
Medical E	07	3AA2015	4 x 26	(10 x 66)	14	(6)	0.16	(4.5)
BX	88	3AA6000	10 x 51	(25 x 130)	300	(136)	1.49	(42.2)
BY	89	3AA3500	9 x 51	(23 x 130)	187	(85)	1.53	(43.3)
Low Pressure								
A	09	3A480	10 x 49	(25 x 124)	85	(39)	1.93	(54.7)
B	10	3A480	10 x 36	(25 x 91)	90	(41)	1.28	(36.2)
C	11	3A480	8 x 22	(20 x 56)	33	(15)	0.53	(15.0)
AA	08	4AA480	15 x 52	(38 x 132)	160	(73)	4.46	(126.3)
A-1	91	4BW240	16 x 50	(41 x 127)	75	(34)	3.83	(108.5)
A-2	90	4BW240	22 x 48	(56 x 122)	167	(76)	7.64	(216.4)
A-3	92	4BA240	12 x 45	(30 x 114)	48	(22)	2.31	(65.4)
A-5	81	4BW240	30 x 57	(76 x 145)	315	(143)	16.00	(453.0)
LP2.5	92	4B240	9 x 17	(23 x 43)	14	(6)	0.4	(11.3)
LP5	93	4B240	12 x 18	(30 x 46)	18	(8)	0.77	(21.8)
C_2H_2								
A	18	8/8AL	12 x 41	(30 x 104)	185	(84)	2.36	(66.8)
HCl, Bulk Electronic Gases								
Y	37	3A1800	24 x 90	(61 x 229)	1,108	(503)	15.83	(448)
H_2S								
T	38	106A800X	30 x 82	(76 x 208)	2,254	(1,022)	25.82	(731)
SO_2, C_2H_5Cl, Cl_2, CH_3Cl								
T	45	106A500X	30 x 82	(76 x 208)	1,400	(635)	25.64	(726)
Aluminum								
A(Al)	31	3AL2216	10 x 52	(25 x 132)	90	(41)	1.64	(46.4)
B(Al)	28	3AL2015	8 x 48	(20 x 122)	48	(22)	1.04	(29.5)
C(Al)	29	3AL2216	7 x 33	(18 x 84)	32	(15)	0.56	(15.8)
D-1(Al)	30	3AL2216	7 x 16	(18 x 41)	15	(7)	0.21	(5.9)
4X(Al)	34	3AL1800	4 x 10	(10 x 26)	3.3	(1.6)	0.057	(1.61)
Nickel								
B	61	3BN400	7 x 45	(18 x 14)	88	(40)	0.65	(18.4)
D-1	56	3BN400	7 x 22	(18 x 56)	48	(22)	0.28	(8.0)
D-2	58	3BN400	5 x 15	(12 x 38)	10	(4)	0.10	(2.9)
Stainless Steel								
55 gallon	52	UN1A1	24 x 45	(61 x 114)	175	(79)	7.35	(208.2)
10 gallon	50	UN1A1	14 x 29	(35 x 74)	50	(23)	1.34	(37.8)
5 gallon	51	UN1A1	9 x 24	(23 x 61)	25	(11)	0.67	(18.9)

*These dimensions are not exact. They should not be used for engineering drawings or equipment specifications.

Specialty Gas Cylinder Size Comparison Chart

Approximate Dimensions (inches)	Air Products	AGA	Airgas	BOC (Airco)	Alphagaz (Liquid Air)	Praxair	Matheson	MG	Solkatronics	Scott Specialty Gases
High Pressure Steel										
24 x 90	Y	—	—	—	—	TO	—	—	—	—
9 x 55	A	049	300	300	49	T	1L	300	49	K
9 x 51	B	044	200	200	44	K	1A	200	44	A
7 x 33	C	016	80	80	16	Q	2	80	16	B
7 x 19	D-1	007	35	30	7	G	3	35	7	C
4 x 17	D	003	7	12	3	F	4	10	3	D
2 x 12	L.B.	LBR	L.B.	L.B.	L.B.	L.B.	L.B.	L.B.	—	L.B.
4 x 26	E	005	E	E	MEDE	ANE	3L	E	—	ER
10 x 51	BX	485	3HP	500	44H	6K	1U	3HP	—	—
9 x 51	BY	—	—	—	44H	3K	1H	2HP	—	—
Aluminum										
10 x 52	A(Al)	—	—	—	AT	—	—	—	—	—
8 x 48	B(Al)	A31	150A	150A	30AL	AS	1R	150AL	29A	AL
7 x 33	C(Al)	A16	80A	80A	22AL	AQ	2R	80AL	—	BL
7 x 16	D-1(Al)	A07	33A	30A	7AL	AG	3R	33AL	—	CL
M size cylinder 7 x 43 inches										

Additional Supply Modes — Bulk Specialty Gases and Chemicals

Many Air Products specialty gases and chemicals can be supplied in bulk quantity. Products available in bulk quantity are identified throughout the catalog by the symbols shown below:

Tank trucks are used for over-the-road transportation of cryogenic liquids. Liquid product is then transfilled to cryogenic storage tanks at customer locations.

Tube trailers (T.T.) provide over-the-road shipment of high-pressure gases, gaseous chemicals, and gas mixtures. The trailers serve as on-site storage systems at customer locations.

Cryogenic liquids such as nitrogen and helium are supplied in dewars (low-pressure cryogenic tanks) for larger requirements near customers' point of use.

If you are considering bulk supply, a representative from Air Products can discuss your requirements and the economics of alternate supply systems.

Cylinder Identification

Packaging and Color

Air Products uses a unicolor paint scheme to identify specialty gas cylinders. Here are the highlights of our cylinder packaging and color codes.

- Virtually all steel cylinder bodies are painted uniformly dark blue and covered with a protective plastic diamond mesh.
- A cylinder neck ring is permanently fixed below the base of the valve. Each cylinder neck ring is color-coded to help identify cylinder contents and gas category (e.g., yellow for corrosive, red for flammables).
- A color-coded shoulder label indicates the product's shipping name and identification number. On pure products, a grade label is also applied to the cylinder shoulder. The color-coded label border correlates with neck ring color for product identification. The shoulder label also specifies gas grade information.
- Some cylinders are painted with a vertical stencil identifying cylinder contents.

Markings

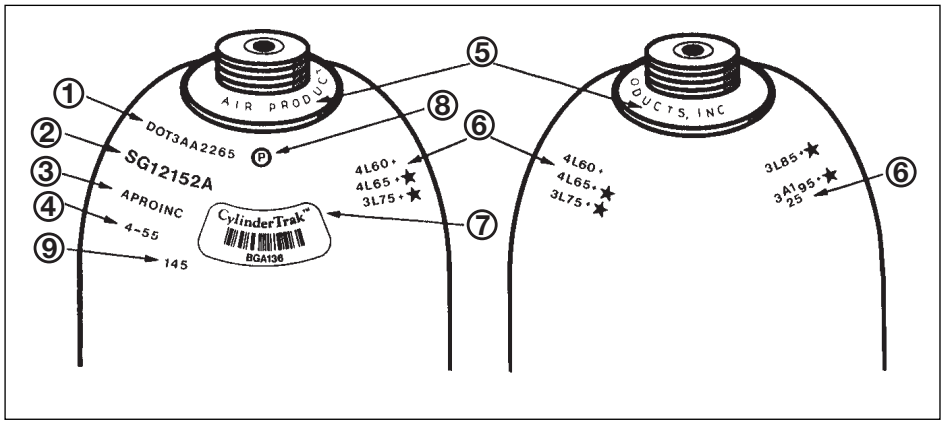
Air Products specialty gas cylinders are stamped with markings designed to indicate ownership, specifications, pressure ratings, and other important data. Air Products also utilizes a bar code label for product identification and tracking.

1. Cylinder Specification:

- DOT—Department of Transportation (previously ICC – Interstate Commerce Commission), which is the regulatory body that governs the use of cylinders.
- Specification of the cylinder type of material of construction (e.g., 3AA).
- Service or working pressure in pounds per square inch (e.g., 2,265 psi).

2. Cylinder Serial Number:

- The letters SG precede the serial numbers for Specialty Gas cylinders.



3. Registered Owner Symbol:

- Symbol used to indicate the original owner of the cylinders.
- APROINC is a Registered Owner Symbol for Air Products.

4. Date of Manufacture:

- This date (month-year) also indicates the original hydrostatic test.

5. Neck Ring Identification:

- The cylinder neck ring displays the name of the current owner of the cylinder.

6. Retest Markings:

- The format for a retest marking is: Month – Facility – Year – Plus Rating – Star Stamp.
- The + symbol (Plus Rating) indicates that the cylinder qualifies for 10% overfill.
- The ★ symbol (Star Stamp) indicates that the cylinder meets the requirements for 10-year retest.

7. CylinderTrak™ Bar Code Label:

- The CylinderTrak bar code label provides a unique cylinder identifier and is used by computer systems to track cylinders throughout the fill process. As an optional service, we have the capability of tracking cylinders to and from customers.

8. Cylinder Manufacturer's Inspection Marking

9. Cylinder Tare (Empty) Weight:

- This value is preceded by the letters TW.