

Cylinder Charts

Aluminum cylinder selection chart

These seamless aluminum cylinders are manufactured with alloy 6061-T6, are DOT 3AL rated and in compliance with Transport Canada

Cylinder Model Type	Typ. O ₂ Vol. Liters (cu. ft.) @ 127 bar (1850 psi)	Max. O ₂ Vol. Manufactures Max. capacity Liters (Cu. ft.) @ bar (psig.)	Diameter Maximum cm (inch)	Length Maximum cm (inch)	Weight Maximum Kg (lb)
AL-113	94 (3.33)	113 (4.1) @ 153 (2216)	8.13 (3.20)	26.67 (10.50)	1.11 (2.45)
AL-180	137 (4.8)	164 (5.8) @ 153 (2216)	8.13 (3.20)	34.93 (13.75)	1.41 (3.13)
AL-248	227 (8.0)	248 (8.7) @ 139 (2015)	11.11 (4.375)	32.38 (12.75)	2.04 (4.50)
AL-415	381 (13.4)	415 (14.6) @ 139 (2015)	11.11 (4.375)	47.37 (18.65)	2.83 (6.25)
AL-647	540 (19.1)	647 (22.8) @ 153 (2216)	13.33 (5.250)	48.51 (19.10)	3.81 (8.40)
AL-682	626 (22.1)	682 (24.09) @ 139 (2015)	11.11 (4.375)	70.50 (27.75)	3.92 (8.65)

Silica (glass) fiber-wrapped cylinder selection chart

CFF & CF cylinders have an aluminum core with fiber wrap and are DOT-E 7277-3000 rated.

Cylinder Model Type	Typ. O ₂ Vol. Liters (Cu. ft.) @ 127 bar (1850 psi)	Max. O ₂ Vol. Manufactures Max. capacity Liters (Cu. ft.) @ bar (psig.)	DIAMETER Maximum cm (inch)	LENGTH Maximum cm (inch)	WEIGHT Maximum Kg (lb)
CFF-480	317 (11.21)	515 (18.18) @ 207 (3000)	11.43 (4.50)	40.00 (15.75)	1.87 (4.125)

Carbon filament fiber wrapped cylinder selection chart

CFFC cylinders have an aluminum core with carbon filament fiber wrap and are DOT-E 10945-2216 rated.

Cylinder Model Type	Typ. O ₂ Vol. Liters (Cu. ft.) @ 127 bar (1850 psi)	Max. O ₂ Vol. Manufactures Max. capacity Liters (Cu. ft.) @ bar (psig.)	DIAMETER Maximum cm (inch)	LENGTH Maximum cm (inch)	WEIGHT Maximum Kg (lb)
CFFC-048	1132 (40)	1365 (48) @ 153 (2216)	17.15 (6.75)	49.5 (19.50)	2.90 (6.4)

Kevlar fiber-wrapped cylinder selection chart

CYLINDER MODEL NAME	AVG. VOLUME Liters (Cu. Ft.)	MAX. DIAMETER CM. (IN.)	MAX. LENGTH CM. (IN.)	AVG. WEIGHT KG. (LB)	SERVICE PRESSURE BAR (PSIG.)
KF-011 *	311 (011)	9.27 (3.62)	48.00 (18.90)	0.91 (02.00)	128 (1850)
KF-022 *#	623 (022)	13.21 (5.20)	51.05 (20.10)	1.81 (04.00)	128 (1850)
KF-040 #†	1132 (040)	17.27 (6.80)	52.58 (20.70)	2.90 (06.40)	128 (1850)
KF-050 #†	1416 (050)	17.27 (6.80)	64.00 (25.20)	3.58 (07.90)	128 (1850)
KF-077 #†	2180 (077)	19.38 (7.60)	75.69 (29.80)	5.85 (12.90)	128 (1850)
KF-115 #†	3256 (115)	23.11 (9.10)	80.77 (31.80)	8.21 (18.10)	128 (1850)

Add an additional 1.56" to the length of a cylinder to account for mounting an XCR or XCP regulator.

Oxygen weights a mere 0.083 lb per cu. ft. Therefore, a filled 11 cu. ft. capacity cylinder will weigh a mere 0.913 lbs more.

