

Carleton Technologies Inc
 Pressure Technology Division
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Composite Pressure Vessel Product List

DOT COMMERCIAL COMPOSITE PRESSURE VESSELS												
Part No.	Minimum Capacity	Service Pressure	Matl	Approval				Nominal Diameter	Nominal Length	Maximum Weight	Port Type	Size Code
				U S	T C	P I	C E					
6319	45ci	4500psi	F	X	X	X		3.76"	8.31"	2.10 lbs.	AS5202	-07
6226	45ci	4500psi	C	X	X			3.68"	8.10"	1.75 lbs.	AS5202	-07
6304	68ci	4500psi	C	X				4.06"	9.43"	2.40 lbs.	AS5202	-07
6310	68ci	3000psi	F	X	X			4.04"	9.40"	2.20 lbs.	AS5202	-07
6313	68ci	4500psi	F	X	X	X		4.18"	9.48"	2.72 lbs.	AS5202	-07
6121	68ci	3000psi	F	X	X			4.03"	9.48"	2.20 lbs.	AS5202	-08
6121A	68ci	3000psi	F	X	X			4.03"	9.48"	2.20 lbs.	AS5202	-07
6262	72ci	4500psi	C	X	X			4.64"	8.45"	2.90 lbs.	AS5202	-07
6301	80ci	4500psi	C	X	X			4.07"	10.70"	2.65 lbs.	SCBA	3/4"-16
6205	88ci	3000psi	F	X	X			4.00"	11.48"	2.60 lbs.	AS5202	-07
6196	88ci	4500psi	C	X	X			4.10"	11.65"	3.50 lbs.	AS5202	-07
6241	88ci	4500psi	C	X	X			4.64"	9.85"	3.50 lbs.	AS5202	-07
6211	95ci	4500psi	C	X				3.44"	16.13"	3.00 lbs.	AS5202	-08
6211A	95ci	4500psi	C	X				3.44"	16.13"	3.00 lbs.	SCBA	7/8"-14
6115	114ci	3000psi	F	X	X			4.56"	11.72"	3.30 lbs.	AS5202	-08
6115A	114ci	3000psi	F	X	X			4.56"	11.72"	3.30 lbs.	AS5202	-07
6190	114ci	4500psi	C	X				4.64"	11.79"	3.44 lbs.	AS5202	-07
6250	119ci	4500psi	C	X	X			3.44"	20.00"	3.60 lbs.	SCBA	7/8"-14
6217	122ci	3000psi	C	X	X			3.95"	14.96"	2.95 lbs.	SCBA	3/4"-16
6217A	122ci	3000psi	C	X	X			3.95"	14.65"	2.75 lbs.	AS5202	-07
6217B	122ci	3000psi	C	X	X			3.95"	14.96"	2.95 lbs.	AS5202	-10
6328	132ci	3000psi	C	X	X	X		5.34"	9.93"	3.10 lbs.	SCBA	3/4"-16
6169	144ci	3000psi	F	X	X			4.58"	14.09"	4.00 lbs.	AS5202	-07
6169A	144ci	3000psi	F	X	X			4.58"	14.09"	4.00 lbs.	AS5202	-08
6199	145ci	3295psi	C	X	X			4.50"	14.10"	3.30 lbs.	AS5202	-10
6142	168ci	3000psi	F	X	X			5.34"	11.86"	4.10 lbs.	SCBA	3/4"-16
6163	168ci	3000psi	C	X	X			5.34"	11.86"	3.60 lbs.	SCBA	3/4"-16

Material:

C: Carbon Composite Tank built to DOT CFFC/ E11194
 F: Fiberglass Composite Tank built to DOT FRP-1/ E11005

Approval:

US: US DOT Approval
 TC: Transport Canada Approval
 EN: European Standard 12245
 ISO: International Organization for Standardization 11119-2

Port Type:

AS5202: Aerospace Standard Type Port
 (Superseded MS33649 Type Port)
 SCBA: Self-Contained Breathing Apparatus O-ring Type Port
 SAE: Society of Automotive Engineers O-Ring Type Port
 ISO: International Organization for Standardization
 EN144 (British Standard)
 *: Dual Port Tank

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Composite Pressure Vessel Product List

DOT COMMERCIAL COMPOSITE PRESSURE VESSELS												
Part No.	Minimum Capacity	Service Pressure	Matl	Approval				Nominal Diameter	Nominal Length	Maximum Weight	Port Type	Size Code
				U S	T C	P I	C E					
6166	200ci	3000psi	C	X	X			5.34"	13.58"	4.20 lbs.	SCBA	3/4"-16
6202	200ci	3295psi	C	X				5.35"	13.45"	4.40 lbs.	AS5202	-10
6292	213ci	1800psi	C	X	X			5.40"	13.82"	4.50 lbs.	AS5202	-20
6112	285ci	4500psi	C	X	X			5.34"	20.01"	7.00 lbs.	SCBA	7/8"-14
6223	285ci	3295psi	C	X				5.21"	19.82"	6.00 lbs.	SCBA	7/8"-14
6235	285ci	4500psi	C	X	X			5.43"	18.80"	7.00 lbs.	SCBA	7/8"-14
6286	285ci	4500psi	C	X	X			5.33"	20.06"	7.00 lbs.	AS5202 SCBA	-07 7/8-14 *
6277	337ci	3000psi	C	X				5.53"	20.27"	7.50 lbs.	SAE J1926	-12
6271	410ci	4500psi	C	X	X			6.34"	19.97"	9.31 lbs.	SCBA	7/8"-14
6148	410ci	4500psi	C	X	X			6.59"	18.96"	9.30 lbs.	SCBA	7/8"-14
6148A	410ci	4050psi	C	X				6.54"	18.80"	9.10 lbs.	AS5202	-16
6256	416ci	4500psi	C	X	X			6.80"	17.75"	9.30 lbs.	SCBA	7/8"-14
6244	429ci	4500psi	C	X	X			6.56"	19.55"	9.65 lbs.	SCBA	7/8"-14
6229	476ci	3295psi	C	X				7.51"	16.47"	9.30 lbs.	AS5202	-16
6259	514ci	3000psi	C	X	X			6.80"	20.27"	9.30 lbs.	SCBA	3/4"-16
6259M	514ci	3000psi	C	X	X			6.80"	20.27"	9.30 lbs.	ISO	M18
6181	514ci	3295psi	C	X				6.80"	20.39"	9.30 lbs.	AS5202	-16
6145	516ci	2216psi	C	X	X			6.62"	20.40"	7.50 lbs.	SCBA	3/4"-16
6232	516ci	2216psi	C	X	X			6.80"	19.20"	7.20 lbs.	AS5202	-08
6133	525ci	3500psi	F	X	X			4.47"	48.50"	14.00 lbs.	AS5202	-11/-12*
6109	550ci	4500psi	C	X	X			6.97"	21.70"	11.50 lbs.	SCBA	7/8"-14
6253	550ci	4500psi	C	X	X			7.12"	21.12"	12.20 lbs.	SCBA	7/8"-14
6175	605ci	3295psi	C	X				7.51"	20.05"	11.20 lbs.	AS5202	-16
8106-1	619ci	3295psi	C	X				8.76"	16.26"	11.13 lbs.	AS5202	-16
6172	750ci	3295psi	C	X				7.50"	23.90"	13.40 lbs.	AS5202	-16

Material:

C: Carbon Composite Tank built to DOT CFFC/ E11194
 F: Fiberglass Composite Tank built to DOT FRP-1/ E11005

Approval:

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 ISO: International Organization for Standardization 11119-2

Port Type:

AS5202: Aerospace Standard Type Port
 (Superseded MS33649 Type Port)
 SCBA: Self-Contained Breathing Apparatus O-ring Type Port
 SAE: Society of Automotive Engineers O-Ring Type Port
 ISO: International Organization for Standardization
 EN144 (British Standard)
 * : Dual Port Tank

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DOT COMMERCIAL COMPOSITE PRESSURE VESSELS												
Part No.	Minimum Capacity	Service Pressure	Matl	Approval				Nominal Diameter	Nominal Length	Maximum Weight	Port Type	Size Code
				U S	T C	P I	C E					
8106-3	792ci	3295psi	C	X				8.76"	19.63"	12.90 lbs.	AS5202	-16
6238	800ci	3500psi	C	X				7.51"	25.24"	13.80 lbs.	AS5202	-16
8106-9	916ci	3295psi	C	X				8.76"	21.99"	14.16 lbs.	AS5202	-16
6268	1000ci	1850psi	C	X				7.50"	29.40"	12.90 lbs.	AS5202	-08
6265	1015ci	3295psi	C	X				7.16"	33.88"	17.00 lbs.	AS5202	-16
8106-5	1089ci	3295psi	C	X				8.76"	25.31"	15.86 lbs.	AS5202	-16
6187	1100ci	3675psi	C	X				8.24"	29.47"	21.80 lbs.	AS5202	-16
8106-7	1188ci	3295psi	C	X				8.76"	27.30"	17.02 lbs.	AS5202	-16
6280-1	1200ci	3295psi	C	X				8.85"	27.17"	18.84 lbs.	AS5202	-16
6280-3	1299ci	3295psi	C	X				8.84"	29.03"	20.01 lbs.	AS5202	-16
6280-5	1400ci	3295psi	C	X				8.84"	30.37"	21.02 lbs.	AS5202	-16
6193	1471ci	1850psi	C	X				9.25"	29.00"	17.30 lbs.	AS5202	-08
6220	1500ci	1850psi	C	X				8.98"	31.30"	17.60 lbs.	AS5202	-08
6283	1624ci	3295psi	C	X				9.59"	30.72"	24.50 lbs.	AS5202	-16
6283A	1624ci	3295psi	C	X				9.62"	30.44"	24.70 lbs.	SCBA	7/8"-14
6289	1624ci	4500psi	C	X	X			9.81"	30.83"	30.00 lbs.	AS5202	-16
6208	1910ci	5000psi	C	X				8.40"	48.01"	40.00 lbs.	AS5202	-16
6247	1910ci	5000psi	C	X				8.62"	48.40"	46.70 lbs.	AS5202	-16
6184	2640ci	3100psi	C	X				9.19"	51.00"	42.00 lbs.	AS5202	-16
6295	2756ci	1850psi	C	X				10.10"	41.93"	24.70 lbs.	AS5202	-08
8108	2756ci	4300psi	C	X				10.57"	42.42"	41.7 lbs.	AS5202	-08

Material:

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Port Type:

AS5202: Aerospace Standard Type Port
 (Superseded MS33649 Type Port)
 SCBA: Self-Contained Breathing Apparatus O-ring Type Port
 SAE: Society of Automotive Engineers O-Ring Type Port
 ISO: International Organization for Standardization
 EN144 (British Standard)
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Composite Pressure Vessel Product List

LAUNCH VEHICLE / SPACECRAFT COMPOSITE PRESSURE VESSELS												
Part No.	Minimum Capacity	MEOP/Min. Burst Pressure	Matl	Spec				Nominal Diameter	Nominal Length	Maximum Weight	Port Type	Size Code
				1 5 2 2	1 7 7 1	D O T 1	S 0 T 8 1					
6226-2	45ci	4500psi	C			X		3.76"	8.31"	2.10 lbs	AS5202	-07
7149	140ci	2240/4480psi	PBO				X	6.05"	8.65"	0.98 lbs.	Stub Tube	0.25" OD*
7155	200ci	3750/9375psi	C	X				5.17"	13.50"	4.00 lbs.	AS5202	-08
7112	324ci	3000/12000psi	C		X			5.50"	19.65"	6.10 lbs.	AS5202	-08/-10*
7112-3	324ci	2125/8545psi	C				X	5.50"	21.73"	7.00 lbs.	Stub Tube	0.25"OD*
7161	550ci	9600/24000psi	C				X	7.23"	22.66"	12.17 lbs.	Stub Tube	0.19"OD
7103	550ci	12000/24000psi	C		X			7.04"	22.00"	11.80 lbs.	AS5202	-10
7106	1300ci	9700/19400psi	C		X			11.50"	22.40"	35.80 lbs.	AS5202	-08*
7173	1378ci	6200/12400psi	C	X				10.40"	26.06"	21.80 lbs.	AS5202	-10*
7130	1728ci	6000/12000psi	C	X				10.40"	30.89"	28.00 lbs.	AS5202	-10*
7109	2100ci	4100/16400psi	C		X			15.46"	20.17"	36.00 lbs.	AS1300	-12*
7176	2650ci	4600/6900psi	C	X				14.84"	25.57"	23.50 lbs.	AS5202	-10*
7127	4770ci	3300/6600psi	C	X				18.10"	27.17"	43.00 lbs.	AS5202	-06*

Material:

PBO: PBO(Zylon) Composite Tank
 C: Carbon Composite Tank
 F: Fiberglass Composite Tank

Specifications:

MIL-STD-1522A: Standard General Requirements for Safe Design and Operation of Pressurized Missile and Space Systems
 EWR 127-1: Eastern-Western Range Safety Document 127-1
 AIAA-SO81-2000: Space Systems-Composite Overwrapped Pressure Vessels (COPVs)

Port:

AS5202: Aerospace Standard Type Port (Superseded MS33649 Type Port)
 AS1300: Aerospace Standard Type Port (Ring Locked Fluid Type Connection)
 Stub Tube: Customer Specified Fitting that is E-Beam Welded in Place
 *: Dual Port Tank

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Composite Pressure Vessel Product List

MILITARY / SHIP / AIRCRAFT COMPOSITE PRESSURE VESSELS										
Part No.	Minimum Capacity	Service Pressure/Min. Burst Pressure	Matl	Spec		Nominal Diameter	Nominal Length	Maximum Weight	Port Type	Size Codes
				2	C					
				4	S					
				6	S					
				0						
7115	285ci	4500/11250psi	C		X	5.25"	20.00"	5.50 lbs.	SCBA	7/8"-14
6214	455ci	5000/15000psi	F	X		6.75"	23.50"	20.00 lbs.	AS5202	-12
7186	613ci	5368/13420psi	C		X	6.80"	23.00"	9.50 lbs.	AS4200	-06
7158	2790ci	8000/18858psi	C		X	11.92"	36.79"	50.80 lbs.	AS4200	-05

Material:

C: Carbon Composite Fiber Tank

F: Fiberglass Composite Tank

Specifications:

MIL-STD-24604: Qualified per US Military Standard, Fiberglass/Aluminum Cylinders

CSS: Customer Specified Standard

Port:

AS5202: Aerospace Standard Type Port (superseded MS33649 type port)

AS4200: Aerospace Standard Fitting Assembly (Ring Locked Fluid Connection)

SCBA: Self-Contained Breathing Apparatus O-ring Type Port