TECHNICAL DATASHEET

CARBON FIBRE CYLINDERS FOR SCOTT SAFETY SCBA & MODULAIR AIRLINE TROLLEY

DESCRIPTION

Scott Safety's Carbon Fibre Cylinders provide a lightweight solution for containing the air required by Scott Safety Breathing Apparatus.

The reduction in weight lowers the user burden leading to more effective air use and less strain on the wearer.

- Constructed of an aluminium alloy inner shell and overwrapped entirely with carbon-fibre, fibreglass and epoxy resin.
- Available with right angle valve (RAV) or T Valve; the valves are nickel plated naval brass
- 6.8L 300 Bar and 9L 300 Bar
- Supplied charged/full

APPLICATIONS

Suitable for Scott Safety Self Contained Breathing Apparatus (SCBA) and Scott Safety Modulair Airline Trolley.

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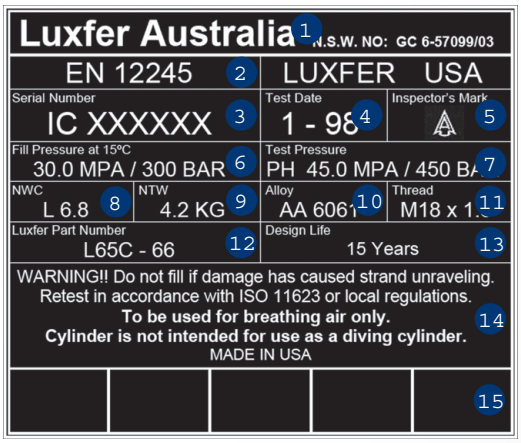
TECHNICAL SPECIFICATIONS

CARBON FIBRE CYLINDERS	
	
Liner	Lightweight aluminium liner
Overwrap	High performance carbon fibre overwrap in epoxy resin matrix
Protective Layer	High strength fibreglass reinforced plastic (FRP)
Shipping Dimensions	Height: 0.2 m Depth: 0.2 m Width: 0.650 m
Shipping Volume	6.8 L & 9 L
Weight	6.8L = 8 kg 9L = 10 kg

CYLINDER LABEL SPECIFICATIONS

1. Manufacturer's name
2. The design specification (eg. EN 12245)
3. The cylinder serial number
4. Date (month & year) of first hydrostatic pressure test
5. Inspector's mark
6. Filling pressure
7. Test pressure
8. Water capacity in litres
9. Empty weight of cylinder
10. The aluminimum alloy of the liner
11. Cylinder thread identity
12. Luxfer part number
13. Design life
14. Safety information
15. Dates of hydrostatic pressure re-tests



Duration is nominal and based on an average wearer consumption rate of 40 litres and are for fully charged cylinders. Total duration for the apparatus is calculated from the following formula:

Total Duration = Cylinder Free air capacity/average wearer consumption rate

APPROVAL INFORMATION

The Scott Safety cylinders conform to EN 12245.

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CYLINDER CAPACITY

PART NO.	WATER VOLUME (LITRES)	CHARGING PRESSURE (BAR)	FREE AIR VOLUME (LITRES)	NOMINAL DURATION (MIN)	OUTSIDE DIAMETER (MM)	OVERALL LENGTH (MM)	EMPTY WEIGHT (KG)	STANDARD THREAD SIZE
1118245RAV	6.8	300	1835	46	157	525	4.2	M18x1.5 C-6h
1127413RAV	9.0	300	2430	61	174	556	4.8	M18x1.5 C-6h
1118245T	6.8	300	1835	46	157	525	4.2	M18x1.5 C-6h
1127413T	9.0	300	2430	61	174	556	4.8	M18x1.5 C-6h

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
1118245RAV	6.8L 300 Bar Carbon Fibre Cylinder - Right Angle Valve (RAV)
1127413RAV	9L 300 Bar Carbon Fibre Cylinder - Right Angle Valve (RAV)
1118245T	6.8L 300 Bar Carbon Fibre Cylinder - T Valve (T)
1127413T	9L 300 Bar Carbon Fibre Cylinder - T Valve (T)

MAINTENANCE/CLEANING

Scott Safety recommends that these basic regular maintenance procedures be followed for all composite cylinders:

- Ensure lubricants, if used, and components are compatible with both the cylinder and the gas mixture
- Keep the inside of the cylinder free from moisture, oil, dirt and orther contaminates.
- Avoid completely discharging your cylinder
- Never artificially heat your cylinder
- Never remove, obscure or alter cylinder labels or markings
- Never use corrosive, caustic or acidic paint strippers or solvents to remove paint.
- Never repaint the cylinder with paints that require curing at elevated temperatures.
- Do not fill cylinder if damaged

STORAGE

The cylinder must be stored in a dry, cool, clean place free from acids, oils, grease, or highly combustible materials. Store away from direct heat and sunlight; storage temperature should not exceed -10°C to +40°C. Do not store the cylinder in a place where welding operations are likely to take place.

PERIODIC INSPECTION AND TESTING

Cylinders shall be subjected to periodic inspection and testing by an approved test station according to the requirements of AS 2030.1-2009.

DISPOSAL

Empty cylinders should be treated as special waste and disposed of according to local and state guidelines.

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