



# 3M™ Carbon Fibre Cylinders for 3M™ Scott Safety SCBA & Modulair Airline Trolley

## Description

3M™ Scott Safety's Carbon Fibre Cylinders provide a lightweight solution for containing the air required by 3M™ 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 3M™ Scott Safety Self Contained Breathing Apparatus (SCBA) and 3M™ Scott Safety Modulair Airline Trolley.

## Standards

The 3M™ Scott Safety cylinders conform to EN 12245.

## Maintenance & Cleaning

3M™ 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 other contaminants.
- 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



Right Angle Valve Cylinder

T-Valve Cylinder

## 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.

## 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.

## Service/Training

Users need to be trained in the safe operation of this equipment. Routine checks must be carried out in accordance with the user instructions. Cleaning should also only be carried out as specified in the user instructions.

For training requirements please contact 3M Training Department on Phone: 1800 445 867 or Email: [anzfallprotectiontraining@mmm.com](mailto:anzfallprotectiontraining@mmm.com)

All servicing must be carried out by trained personnel who have been trained and are deemed competent by the manufacturer and hold a current 3M Scott Safety SCBA technician's certificate.

For Annual SCBA Servicing requirements please contact 3M Scott Fire & Safety Service department on Phone: 131 772 or Email: [scbaservice@mmm.com](mailto:scbaservice@mmm.com)

## Disposal

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

## Cylinder Capacity

3M Code	Model #	Water Volume (Litres)	Charging Pressure (Bar)	Free Air Volume (Litres)	Nominal Duration (Min)	Outside Diameter (mm)	Overall Length (mm)	Empty Weight (size)	Standard Thread (size)
AT010700105	1118245RAV	6.8	300	1835	46	157	525	4.2	M18x1.5 C-6h
AT010660218	1127413RAV	9.0	300	2430	61	174	556	4.8	M18x1.5 C-6h
AT010700113	1118245T	6.8	300	1835	46	157	525	4.2	M18x1.5 C-6h
AT010700121	1127413T	9.0	300	2430	61	174	556	4.8	M18x1.5 C-6h

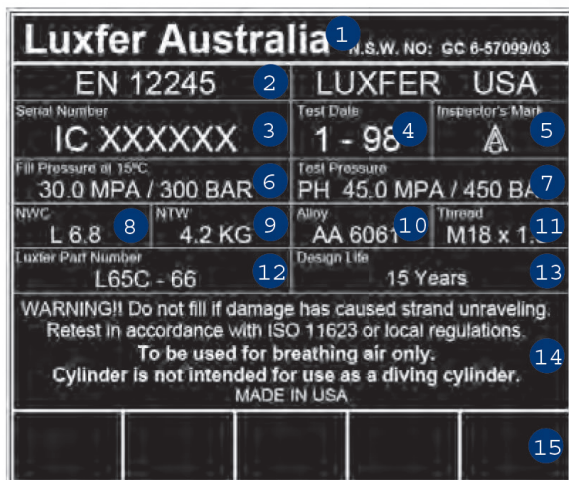
## Cylinder Label Specifications

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 aluminium 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



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## 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

## Ordering Information

3M Code	Model#	Description
AT010700105	1118245RAV	6.8L 300 Bar Carbon Fibre Cylinder - Right Angle Valve (RAV)
AT010660218	1127413RAV	9L 300 Bar Carbon Fibre Cylinder - Right Angle Valve (RAV)
AT010700113	1118245T	6.8L 300 Bar Carbon Fibre Cylinder - T Valve (T)
AT010700121	1127413T	9L 300 Bar Carbon Fibre Cylinder - T Valve (T)

## Important Notice

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