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› TUXING 4500psi Carbon Fiber Air Tank 6.8L Instruction Manual

## TUXING 6.8L carbon fiber tank

# TUXING 4500psi Carbon Fiber Air Tank 6.8L Instruction Manual

MODEL: 6.8L CARBON FIBER TANK

Brand: TUXING

## 1. Introduction

This manual provides essential instructions for the safe and effective use of your TUXING 4500psi Carbon Fiber Air Tank 6.8L. This high-pressure air tank is designed for various applications including PCP air rifles, paintball, and diving. Please read this manual thoroughly before operation and retain it for future reference.



Figure 1: TUXING 6.8L Carbon Fiber Air Tank with Valve Regulator and Hose

The TUXING carbon fiber composite air cylinder features an AL6061 aluminum alloy liner with full-wrapped carbon fiber and glass fiber winding, finished with an epoxy coating. This construction provides high strength, creep resistance, shock resistance, and corrosion resistance. The inner surface is specially treated to ensure clean, odor-free gas storage.



Figure 2: Key features of the TUXING 6.8L Carbon Fiber Cylinder

## 2. Safety Information

**WARNING: High-pressure gas cylinders can be dangerous if not handled properly. Failure to follow these safety guidelines may result in serious injury or death.**

- **Inspect Before Use:** Always inspect the cylinder, valve, and hose for any visible damage, cracks, or leaks before each use. Do not use if any damage is detected.
- **Pressure Limits:** Never exceed the maximum service pressure of 4500 PSI (30 MPa / 300 BAR). Overfilling can cause rupture.
- **Certification:** This product is CE Approved. **It is NOT DOT Approved.** Users in the United States should be aware that some filling stations may not fill non-DOT approved cylinders. Verify with your local filling station before attempting to fill.
- **Temperature:** Do not expose the cylinder to extreme temperatures. Store in a cool, dry place away from direct sunlight and heat sources.
- **Handling:** Handle the cylinder with care. Avoid dropping or striking the cylinder, as this can compromise its structural integrity.
- **Maintenance:** Adhere to the recommended re-test period (3 years) and service life (15 years).
- **Ventilation:** Always fill or discharge gas in a well-ventilated area.
- **Children:** Keep out of reach of children.

## 3. Product Components

Your TUXING 6.8L Carbon Fiber Air Tank system typically includes the following components:

- 6.8L Carbon Fiber Air Tank
- Valve Regulator with Pressure Gauge
- High-Pressure Filling Hose

# WIDE APPLICATION



Figure 3: Valve Regulator with Pressure Gauge and Hose

## 4. Setup Instructions

Follow these steps to set up your TUXING Carbon Fiber Air Tank:

1. **Unpack Components:** Carefully unpack the carbon fiber tank, valve regulator, and high-pressure hose. Note that these may arrive in separate packages.
2. **Attach Valve Regulator:** Screw the valve regulator onto the neck of the carbon fiber tank. Ensure it is hand-tightened securely to prevent leaks. Do not overtighten.
3. **Connect Filling Hose:** Attach one end of the high-pressure filling hose to the appropriate port on the valve regulator. Connect the other end to your air compressor or filling station. Ensure all connections are secure.





Figure 4: Tank with Valve Regulator and Hose Attached

Video 1: Demonstrates the installation and use of a carbon fiber PCP tank, including connecting the regulator and hose.

## PCP air compressor

# CONNECTING AIR COMPRESSOR

compressor-charging-cylinder system



Figure 5: Tank Connected to an Air Compressor for Filling

## 5. Operating Instructions

This section outlines the general procedures for filling and using your air tank. Always refer to the specific instructions for your air compressor or device being filled.

### 5.1. Filling the Air Tank

1. Ensure the tank is securely connected to a compatible air compressor or filling station as described in the Setup section.
2. Confirm that the tank's valve is closed and the bleed valve on the filling hose is also closed.
3. Slowly open the valve on the air compressor or filling station to begin filling. Monitor the pressure gauge on the tank's regulator.

4. Fill the tank to the desired pressure, ensuring it does not exceed the maximum service pressure of 4500 PSI (30 MPa / 300 BAR).
5. Once the desired pressure is reached, close the valve on the air compressor or filling station.
6. Slowly open the bleed valve on the filling hose to release residual pressure in the hose.
7. Disconnect the filling hose from the tank.

Video 2: Demonstrates connecting a PCP air tank to a filling station for operation.

## 5.2. Using the Air Tank to Fill Other Devices

To fill a PCP air rifle or paintball tank from your TUXING 6.8L Carbon Fiber Air Tank:

1. Ensure the device to be filled (e.g., PCP air rifle, paintball tank) is compatible with the tank's output pressure and connection type.
2. Connect the filling hose from your TUXING tank's regulator to the device's fill port. Ensure a secure connection.
3. Slowly open the valve on your TUXING tank's regulator to begin transferring air. Monitor the pressure on both the tank's gauge and the device's gauge.
4. Fill the device to its recommended pressure. Do not overfill.
5. Once the desired pressure is reached, close the valve on your TUXING tank's regulator.
6. Slowly open the bleed valve on the filling hose to release residual pressure.
7. Disconnect the filling hose from the device.

Video 3: Demonstrates the use of a 6.8L tank with a dual pressure gauge filling station.

Video 4: Shows the process of filling an air tank.

## 6. Maintenance

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Proper maintenance ensures the longevity and safe operation of your air tank:

- **Cleaning:** Keep the exterior of the tank clean and free from dirt, oil, and corrosive substances. Use a damp cloth for cleaning.
- **Storage:** Store the tank in a cool, dry, and well-ventilated area, away from direct sunlight, heat sources, and chemicals. Ensure it is stored in a stable position to prevent falling.
- **Service Life:** The design service life of this carbon fiber tank is 15 years. After this period, the tank should be decommissioned.
- **Re-Test Period:** The tank requires a re-test every 3 years from the date of manufacture or last test. This hydrostatic test ensures the tank's integrity. Consult a certified facility for re-testing.
- **Valve Inspection:** Periodically check the valve and regulator for any signs of wear, damage, or leaks. Replace worn seals or components as necessary.

## 7. Troubleshooting

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If you encounter issues with your TUXING Carbon Fiber Air Tank, consider the following:

- **Leaks:** If you detect a leak (hissing sound, pressure drop), immediately close the tank valve. Check all connections for tightness. Inspect O-rings and seals for damage and replace if necessary.
- **Difficulty Filling:** Ensure your air compressor or filling station is functioning correctly and providing

adequate pressure. Verify that all valves are correctly opened or closed as required for filling. Check for blockages in the hose or connections.

- **Tank Not Filling to Capacity:** This could be due to an issue with the compressor, a leak in the system, or an obstruction. Ensure the tank's valve is fully open.
- **Non-DOT Approval:** As noted in the Safety Information, this tank is CE Approved but not DOT Approved. If you are in a region requiring DOT approval, you may encounter difficulties finding a facility to fill the tank. This is not a product defect but a regulatory compliance matter.

For persistent issues, contact customer support.

## 8. Specifications



**Actual Volume:6.8(L)**

**Actual Weight:4.1(KG)**

**Length:537mm**

**Outer Diameter:157mm**

**Straight Thread Bottle Mouth:M18\*1.5**

**Working Pressure:300 BAR**

**Hydraulic Test Pressure:500 BAR**

**Design Working Life:15 Years**

**Re-Test Period:3 Years**

**Fiber Material:Carbon Fiber**

**Liner Material:6061 Aluminum Alloy**

Figure 6: Detailed Specifications

Feature	Specification
Capacity	6.8 Liters (L)
Service Pressure	20-30 MPa / 3000-4500 PSI / 300 BAR
Hydrostatic Test Pressure	500 BAR

Feature	Specification
Bottle Screw Thread Size	M18x1.5
Liner Material	AL6061 Aluminum Alloy
Fiber Material	Carbon Fiber and Glass Fiber Winding
External Surface Treatment	Epoxy Coated
Length	537 mm
Outer Diameter	157 mm
Net Weight	4.1 Kilograms
Design Working Life	15 Years
Re-Test Period	3 Years
Certification	CE Approved (Not DOT Approved)



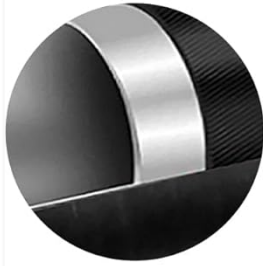
Figure 7: Tank Dimensions and Thread Size

# HIGH- PERFORMANCE

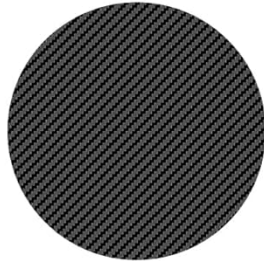
**STRONG**  
CORROSION  
RESISTANCE

**NO**  
MAGNETIC  
PROPERTY

**STABLE**  
PERFORMANCE



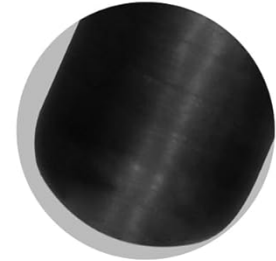
AL6061 ALUMINUM  
ALLOY LINER



CARBON FIBER  
FULL-WRAPPED  
WINDING



GLASS FIBER  
OVER-WRAPPED  
WINDING



EXTERNAL SURFACE  
TREATMENT IS EPOXY  
COATING



Figure 8: Tank Construction (AL6061 Liner, Carbon Fiber/Glass Fiber Winding, Epoxy Coating)

## 9. Warranty and Support

For warranty information or technical support, please contact the seller, Suqi Group Limited, or the manufacturer directly. Keep your purchase receipt as proof of purchase for any warranty claims.