

TUXING 0.5L Pcp Air Tank

TUXING 0.5L Carbon Fiber PCP Air Tank

INSTRUCTION MANUAL

Model: 0.5L Pcp Air Tank

[Introduction](#) [Safety Information](#) [Product](#)
[Overview](#) [Setup](#) [Operation](#) [Maintenance](#) [Troubleshooting](#) [Warranty & Support](#)

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your TUXING 0.5L Carbon Fiber PCP Air Tank. Please read all instructions carefully before use to ensure proper operation and to prevent injury or damage.

Key Features:

- **Capacity:** 0.5L / 500cc / 31 Cu in, featuring a standard M18x1.5 thread for broad compatibility.
- **High-Pressure Design:** Working pressure of 30Mpa / 300Bar / 4500Psi, with a 50Mpa hydrostatic test pressure and 102Mpa minimum burst pressure.
- **Certified Safety:** CE certified, with a 3-year inspection cycle and a 15-year service life.**Note: Not DOT approved.**
- **Lightweight & Durable Construction:** Made with an imported AL6061 aluminum alloy liner, carbon fiber, and glass fiber winding for an excellent strength-to-weight ratio.
- **Versatile Application:** Suitable for various uses including PCP air rifles, paintball filling, underwater breathing, and other positive pressure breathing apparatus.

2. SAFETY INFORMATION

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

- Always wear appropriate eye protection when handling or filling the tank.
- Never exceed the maximum working pressure of 4500 PSI (300 Bar / 30 Mpa).
- Do not expose the tank to direct sunlight or temperatures exceeding 60°C (140°F).
- Avoid dropping or striking the tank, as this can compromise its structural integrity.
- Ensure all connections are clean, free of debris, and securely tightened before filling or use.

- Only use clean, dry compressed air. Moisture or contaminants can damage the tank and connected equipment.
- Do not attempt to modify or repair the tank. Refer to qualified professionals for service.
- Keep the tank away from children and unauthorized personnel.
- Regularly inspect the tank for any signs of damage, corrosion, or leaks. Do not use a damaged tank.
- This tank is CE certified but **NOT DOT approved**. Ensure compliance with local regulations for transportation and use.

3. PRODUCT OVERVIEW

Included Components:

- 1 x TUXING 0.5L Carbon Fiber PCP Air Tank

Specifications:

Feature	Detail
Capacity	0.5 Liters (500cc / 31 Cu in)
Neck Thread	M18x1.5-6H
Working Pressure	30 Mpa / 300 Bar / 4500 Psi
Hydrostatic Test Pressure	50 Mpa
Minimum Burst Pressure	102 Mpa
Inspection Cycle	3 Years
Service Life	15 Years
Liner Material	AL6061 Aluminum Alloy
Winding Material	Carbon Fiber and Glass Fiber
Certification	CE Certified (Not DOT approved)

Product Dimensions:



Image: TUXING 0.5L Carbon Fiber PCP Air Tank with dimensions. The tank measures approximately 300mm in length and 61.5mm in diameter. The neck thread is M18*1.5.

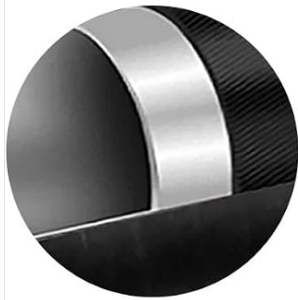
Construction and Performance:

HIGH-PERFORMANCE

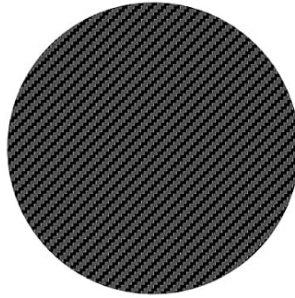
STRONG
CORROSION
RESISTANCE

NO
MAGNETIC
PROPERTY

STABLE
PERFORMANCE



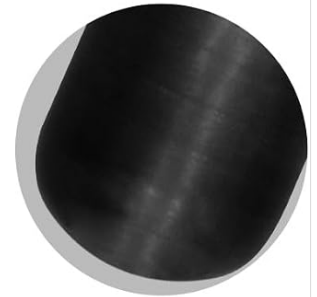
AL6061 ALUMINUM
ALLOY LINER



CARBON FIBER
FULL-WRAPPED
WINDING



GLASS FIBER
OVER-WRAPPED
WINDING



EXTERNAL SURFACE
TREATMENT IS EPOXY
COATING



Image: Cross-section diagram illustrating the high-performance construction of the TUXING carbon fiber tank. It features an AL6061 aluminum alloy liner, full-wrapped carbon fiber, glass fiber over-wrapping, and an external epoxy coating for strong corrosion resistance, no magnetic property, and stable performance.

4. SETUP

Before using your TUXING 0.5L Carbon Fiber PCP Air Tank, ensure it is properly connected to a compatible filling station or air compressor. The tank features an M18x1.5 thread for connection.

Connecting to a Filling Station:

1. Ensure both the air tank and the filling station are depressurized and clean.
2. Remove any protective caps from the tank valve and the filling hose.
3. Carefully screw the filling hose connector onto the tank valve. Ensure it is hand-tightened securely to prevent leaks.
4. Connect the other end of the filling hose to your air compressor or larger air source.
5. Double-check all connections before proceeding to fill the tank.

Your browser does not support the video tag.

Video: This video demonstrates the process of connecting the TUXING 0.5L Carbon Fiber PCP Air Tank to a filling station for charging. It shows how to attach the regulator and filling hose securely.

5. OPERATING INSTRUCTIONS

Filling the Air Tank:

1. With the tank securely connected to the filling station (as per Setup), slowly open the valve on the larger air source or compressor.
2. Monitor the pressure gauge on the filling station and/or the tank. Fill the tank gradually to avoid overheating.
3. Do not exceed the maximum working pressure of 4500 PSI (300 Bar / 30 Mpa).
4. Once the desired pressure is reached, close the valve on the air source.
5. Slowly vent any residual pressure from the filling hose before disconnecting it from the tank.
6. Replace the protective cap on the tank valve.

Using the Air Tank:

The TUXING 0.5L Carbon Fiber PCP Air Tank can be used for various applications, including:

- PCP Air Rifle filling
- Paintball gun filling
- Underwater breathing (snorkeling diving breathing)
- Emergency escape and lifesaving applications

Always ensure compatibility with your specific device and follow the device's instructions for connecting and using the air supply.

WIDE APPLICATION



Image: A visual representation of the wide applications for the TUXING 0.5L Carbon Fiber PCP Air Tank, including use with PCP air rifles, paintball markers, and for underwater breathing.

6. MAINTENANCE

Regular Inspection:

- The tank has an inspection cycle of **3 years**. It is crucial to have the tank professionally inspected and re-tested by a qualified facility every three years from the manufacturing date or last inspection date.
- The service life of the tank is **15 years**. After 15 years, the tank should be retired from service, regardless of its condition.
- Visually inspect the tank before each use for any dents, scratches, cracks, or other signs of damage to the outer surface.
- Check the valve and threads for any signs of wear, corrosion, or damage.

Cleaning and Storage:

- Clean the exterior of the tank with a damp cloth. Do not use harsh chemicals or abrasive materials.
- Store the tank in a cool, dry place, away from direct sunlight, extreme temperatures, and corrosive substances.
- Ensure the tank valve is closed and protected with its cap during storage.

7. TROUBLESHOOTING

Common Issues and Solutions:

- **Leakage during filling:**
Solution: Ensure all connections (tank valve to hose, hose to compressor) are clean and securely tightened. Check O-rings for damage and replace if necessary.
- **Tank not filling to full pressure:**
Solution: Verify the air source (compressor or larger tank) is capable of reaching the required pressure. Check for blockages in the filling hose or filter. Ensure all valves are fully open.
- **Difficulty disconnecting hose:**
Solution: Ensure all pressure has been fully vented from the hose before attempting to disconnect. Never force connections.
- **Visible damage to tank:**
Solution: Immediately cease use. Do not attempt to repair. Contact a qualified professional for assessment or dispose of the tank safely according to local regulations.

If you encounter issues not listed here or require further assistance, please contact TUXING customer support.

8. WARRANTY & SUPPORT

Warranty Information:

The product's warranty description is listed as "Not application" in the provided specifications. Please refer to the manufacturer's official website or contact TUXING customer support directly for the most current and detailed warranty policy.

Customer Support:

For any questions, technical assistance, or support regarding your TUXING 0.5L Carbon Fiber PCP Air Tank, please visit the official TUXING Store or contact their customer service team.

TUXING Official Store: [Visit Store](#)

© 2026 TUXING. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question