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› TUXING 0.5L Carbon Fiber PCP Air Tank Instruction Manual

TUXING 0.5L

TUXING 0.5L Carbon Fiber PCP Air Tank Instruction Manual

Model: 0.5L

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 operation to ensure proper handling and to prevent injury or damage.



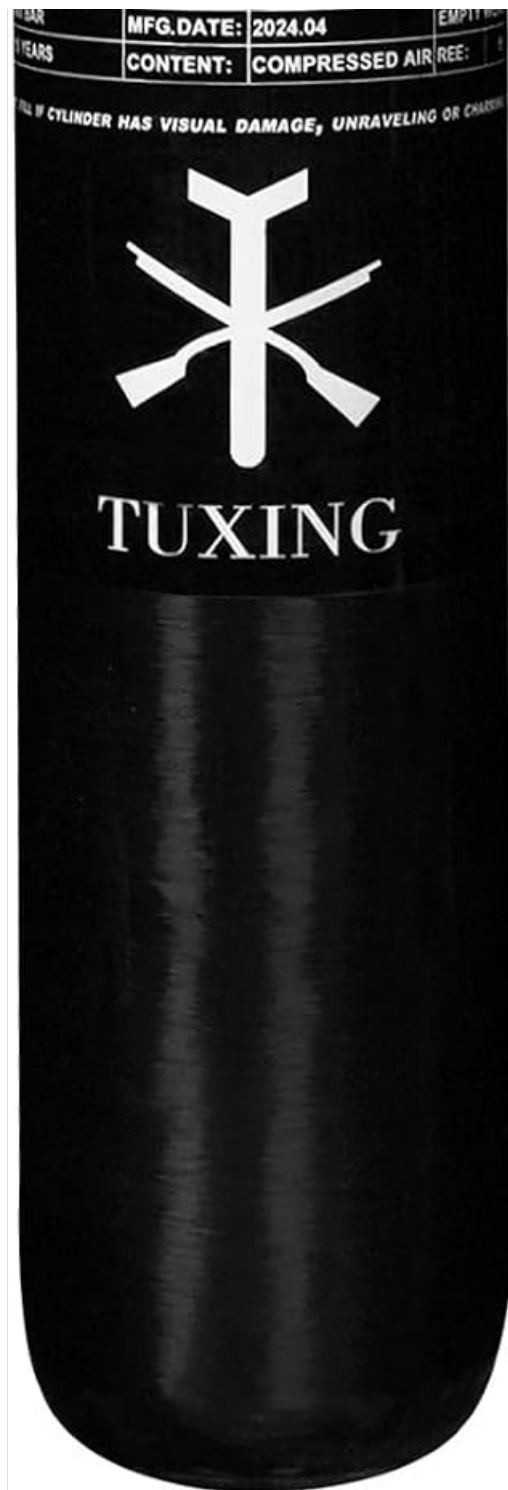


Image: The TUXING 0.5L Carbon Fiber PCP Air Tank, a lightweight and durable high-pressure air storage cylinder.

IMPORTANT SAFETY WARNINGS

Failure to follow these safety instructions can result in serious injury or death.

- Always handle the air tank with care. High-pressure air can be extremely dangerous.
- Do not expose the tank to temperatures exceeding 60°C (140°F) or below -40°C (-40°F).
- Never attempt to disassemble or modify the tank.
- Ensure the tank is securely connected to compatible equipment before filling or discharging.
- Always wear appropriate personal protective equipment (PPE), such as eye protection, when handling or

filling the tank.

- Inspect the tank for any visual damage, unraveling, or charring before each use. Do not use a damaged tank.
- This tank is CE certified but **NOT DOT certified**. Ensure compliance with local regulations for use and transportation.
- Keep out of reach of children.

SETUP AND INITIAL INSPECTION

Before using your TUXING 0.5L Carbon Fiber PCP Air Tank, perform the following steps:

1. **Unpacking:** Carefully remove the air tank from its packaging. Inspect for any shipping damage.
2. **Visual Inspection:** Examine the entire surface of the tank for any signs of damage, such as cracks, dents, fraying of carbon fiber, or charring. Pay close attention to the neck and base. **Do not use if any damage is observed.**
3. **Thread Check:** Verify the M18x1.5-6H neck thread is clean and free from obstructions or damage.
4. **Compatibility:** Ensure all connecting equipment (e.g., PCP air compressor, regulator, hose fittings) is compatible with the tank's specifications (M18x1.5 thread, 4500 PSI / 30 MPa working pressure).
5. **Connecting to Air Compressor:** When connecting to an air compressor, ensure a secure, leak-free connection. Use appropriate quick disconnect fittings if integrating with a filling system.

CONNECTING AIR COMPRESSOR

compressor-charging-cylinder system



*Image: The TUXING 0.5L Carbon Fiber PCP Air Tank connected to a PCP air compressor for charging.
Ensure all connections are secure before operation.*

OPERATING INSTRUCTIONS

This section outlines general operating procedures for filling and using the TUXING 0.5L Carbon Fiber PCP Air Tank.

Filling the Air Tank:

- Connect Securely:** Attach the air tank to a compatible high-pressure air source (e.g., PCP air compressor) using the M18x1.5 thread and appropriate fittings. Ensure all connections are tight and leak-free.
- Monitor Pressure:** Slowly open the valve on the air source to begin filling. Continuously monitor the pressure gauge on your filling system. **Do not exceed the maximum working pressure of 4500 PSI (30 MPa / 300 BAR).**
- Temperature Management:** Filling generates heat. If the tank becomes excessively warm, stop filling and allow it to cool down before continuing.
- Disconnect:** Once the desired pressure is reached, close the valve on the air source, then slowly vent any

residual pressure in the filling hose before disconnecting the tank.

Using the Air Tank:

- The TUXING 0.5L Carbon Fiber PCP Air Tank is designed for applications such as PCP air gun charging and diving.
- Connect the tank to your device (e.g., PCP air gun, diving regulator) using appropriate, compatible fittings.
- Slowly open the tank valve to allow air to flow to your device. Follow the instructions of your specific device for proper air transfer.
- Always ensure the tank is securely mounted or held during use to prevent accidental drops or damage.

WIDE APPLICATION



Image: Examples of the TUXING 0.5L Carbon Fiber PCP Air Tank's wide application, including use with PCP air guns, paintball markers, and for diving.

MAINTENANCE AND STORAGE

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

- **Regular Inspection:** Before and after each use, visually inspect the tank for any signs of damage, wear, or

corrosion. Pay attention to the carbon fiber wrapping and the valve area.

- **Cleaning:** Clean the exterior of the tank with a damp cloth. Do not use harsh chemicals or abrasive materials that could damage the epoxy coating or carbon fiber.
- **Hydrostatic Testing:** The tank has a design working life of 15 years. A re-test period of 3 years is recommended. Adhere to these intervals for hydrostatic testing by a qualified facility to ensure continued safety.
- **Storage:** Store the tank in a cool, dry place, away from direct sunlight, extreme temperatures, and corrosive substances. Ensure the valve is closed and protected from impact.
- **Internal Cleanliness:** The inner surface is specially treated to ensure clean, odor-free gas. Avoid introducing contaminants during filling.

TROUBLESHOOTING

This section addresses common issues you might encounter with your air tank.

- **Leakage:**
 - **Issue:** Air leaking from connections.
 - **Solution:** Ensure all connections are tightened correctly. Check O-rings and seals for wear or damage and replace if necessary. Do not overtighten, as this can damage threads or seals.
- **Tank Not Filling:**
 - **Issue:** Air tank does not fill or fills very slowly.
 - **Solution:** Verify that the air source (compressor) is operating correctly and providing sufficient pressure. Check all valves and hoses for obstructions or kinks. Ensure the tank valve is fully open.
- **Unusual Noises During Filling:**
 - **Issue:** Hissing or whistling sounds during filling.
 - **Solution:** Immediately stop filling. This indicates a leak. Re-check all connections and seals. If the sound persists or originates from the tank itself, discontinue use and seek professional inspection.

For issues not covered here, or if you suspect internal damage, contact customer support or a qualified technician. **Never attempt repairs on a pressurized tank.**

PRODUCT SPECIFICATIONS

Feature	Specification
Brand	TUXING
Model Name	0.5L
Capacity	0.5 Liters / 31 Cu In / 500cc
Working Pressure	30 MPa / 300 BAR / 4500 PSI
Hydrostatic Test Pressure	50 MPa / 500 BAR
Minimum Burst Pressure	102 MPa

Neck Thread	M18x1.5-6H
Liner Material	AL6061 Aluminum Alloy
Winding Material	Full-wrapped Carbon Fiber and Glass Fiber
External Surface Treatment	Epoxy Coated
Weight	Approx. 1.4 Pounds (0.60 KG)
Length	300 mm
Outer Diameter	61.5 mm
Certifications	CE Certified (Not DOT Certified)
Design Working Life	15 Years
Re-Test Period	3 Years
Included Components	PCP Air Tank



Actual Volume:0.5(L)

Actual Weight:0.60 (KG)

Length:300mm

Outer Diameter:61.5mm

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 Aliuminum Alloy

Image: A visual representation of the TUXING 0.5L Carbon Fiber PCP Air Tank's key specifications, including

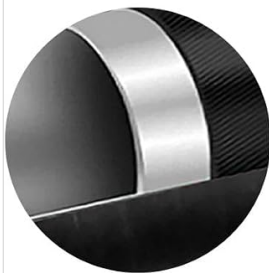
dimensions, weight, and pressure ratings.

HIGH-PERFORMANCE

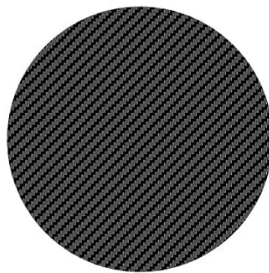
STRONG
CORROSION
RESISTANCE

NO
MAGNETIC
PROPERTY

STABLE
PERFORMANCE



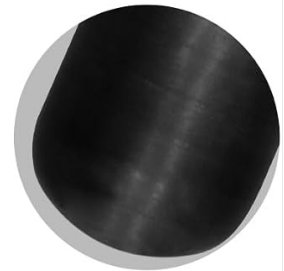
AL6061 ALUMINUM
ALLOY LINER



CARBON FIBER
FULL-WRAPPED
WINDING



GLASS FIBER
OVER-WRAPPED
WINDING



EXTERNAL SURFACE
TREATMENT IS EPOXY
COATING



Image: Diagram illustrating the high-performance construction of the TUXING air tank, featuring an AL6061 aluminum alloy liner, full-wrapped carbon fiber and glass fiber winding, and an epoxy-coated exterior for durability and corrosion resistance.

WARRANTY INFORMATION

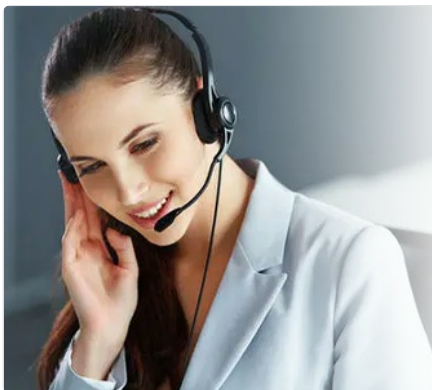
According to the product information, there is no explicit warranty provided for this TUXING 0.5L Carbon Fiber PCP Air Tank. Please refer to your point of purchase for any return or exchange policies.

CUSTOMER SUPPORT

For any questions regarding the purchase or use of your TUXING 0.5L Carbon Fiber PCP Air Tank, please contact the seller or manufacturer.

- **Manufacturer:** Xiamen Subang Technology Co.,Ltd.
- **Seller:** 4500psi PCP/DIVING Specialty Store

The manufacturer offers 24/7 online customer assistance. If you have questions, do not hesitate to contact them by email. Their team of professionals will respond as soon as possible.



Assistance client VIP 24h/24 et 7j/7

- ❶ Service en ligne 7*24 heures.
- ❷ Si vous avez des questions sur l'achat ou l'utilisation, n'hésitez pas à nous contacter par e-mail. Notre équipe de professionnels vous répondra dans les plus brefs délais.
- ❸ Vous obtiendrez un service client attentionné, des produits rentables et de haute qualité, alors veuillez passer commande maintenant !

Image: Information regarding 24/7 customer assistance, encouraging users to contact via email for support.

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This manual is for informational purposes only. Specifications are subject to change without notice.