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Hornet Tire TR618A

Instruction Manual for TR618A Tubeless Air Liquid Agriculture Valve Stem

Brand: Hornet Tire

1. Product Overview

The Hornet Tire TR618-A tubeless air and liquid tire valves are specifically engineered for use with farm tractor and road grader tires. These valves are designed to facilitate both air and liquid filling, making them versatile for various agricultural and heavy-duty applications. Each valve comes complete with a valve core housing and is rated for a maximum pressure of 90 PSI.



Image: Two Hornet Tire TR618A tubeless air liquid agriculture valve stems, showcasing their brass and silver metal construction.

2. Key Features

- **Metal Clamp-in Design:** These valves feature a metal clamp-in design, simplifying the process of filling tires with liquid ballast.
- **Efficient Filling:** By removing the CH3 core housing, a large opening is provided, allowing for quick and efficient air or liquid filling.
- **Complete Assembly:** Each valve includes a CH-3 core housing, a high-temperature valve core, hex nut, washer, rubber grommet, and a cap for a complete installation.
- **Broad Application:** Ideal for tractor, grader, and backhoe applications.
- **Standard Fit:** Designed to fit a 0.625-inch valve hole.
- **High Pressure Rating:** Supports a maximum pressure of 90 PSI.



Image: A green agricultural tractor in a field, emphasizing the intended use of the TR618A valve stems for farm equipment. An inset displays the two valve stems.



Image: A detailed view of the TR618A valve stem, highlighting its key specifications including a maximum pressure of 90 PSI and compatibility with 0.625-inch rim holes.

3. Components Included

Each Hornet Tire TR618A Tubeless Air Liquid Valve Stem package includes the following components:

- CH-3 Core Housing
- High-Temp Valve Core
- Hex Nut
- Washer
- Rubber Grommet
- Cap (Note: Cap type may vary from image)



Image: This image illustrates all individual components included with the TR618A tubeless air liquid valve stem, such as the core housing, hex nut, valve core, washer, grommet, and cap.

4. Setup and Installation

The TR618A valve stems are designed for straightforward installation in tubeless tires. Ensure the tire is completely deflated before beginning the installation process.

1. **Prepare the Rim Hole:** Ensure the valve hole on the rim is clean and free from debris. The valve is designed to fit a 0.625-inch diameter hole.
2. **Insert the Valve Stem:** Insert the valve stem through the rim hole from the inside of the tire.
3. **Secure Components:** Place the rubber grommet, washer, and hex nut onto the valve stem from the outside of the rim.
4. **Tighten the Hex Nut:** Hand-tighten the hex nut initially, then use an appropriate wrench to secure it firmly. Do not overtighten, as this can damage the rubber grommet.
5. **Install Core Housing and Valve Core:** Screw in the CH-3 core housing and then the high-temp valve core into the stem.

6. **Attach Cap:** Place the protective cap onto the valve stem.

For liquid ballast filling, the metal clamp-in design allows for easy connection of filling equipment. Removing the CH3 core housing provides a large opening for efficient liquid transfer.



Image: A close-up shot of a large agricultural tire, demonstrating how the TR618A valve stem facilitates the filling of liquid ballast.

5. Operating Instructions

The TR618A valve stem is designed for both air and liquid inflation/filling. Always ensure the valve is securely installed before proceeding.

5.1. Air Inflation

1. Remove the valve cap.
2. Attach a standard air chuck to the valve stem.
3. Inflate the tire to the manufacturer's recommended PSI, ensuring not to exceed the valve's maximum pressure of 90 PSI.
4. Remove the air chuck and replace the valve cap securely.

5.2. Liquid Ballast Filling

For liquid ballast filling, the CH-3 core housing must be removed to provide a larger opening.

1. Remove the valve cap.
2. Using a valve core tool, carefully unscrew and remove the high-temp valve core.
3. Unscrew and remove the CH-3 core housing. This will expose the large opening for liquid flow.
4. Attach the liquid filling hose adapter (not included) to the valve stem.
5. Fill the tire with the desired liquid ballast according to equipment specifications.
6. Once filling is complete, remove the liquid filling hose adapter.
7. Reinstall the CH-3 core housing, ensuring it is securely tightened.
8. Reinstall the high-temp valve core and replace the valve cap.



Image: This graphic emphasizes the quality assurance of the TR618A valve stem, stating it is produced to strict quality standards for good performance and ease of use.

6. Maintenance

Regular maintenance of your TR618A valve stems ensures optimal performance and longevity.

- **Regular Inspection:** Periodically inspect the valve stems for any signs of damage, corrosion, or leaks. Check the rubber grommet for cracks or deterioration.
- **Cleanliness:** Keep the valve stems clean and free from dirt, mud, and other contaminants, especially around the valve core area.
- **Cap Usage:** Always keep the valve cap securely in place. The cap protects the valve core from dirt, moisture, and potential damage, and also provides a secondary seal against air loss.
- **Leak Detection:** If you suspect a leak, apply soapy water to the valve stem. Bubbles indicate an air leak. Tighten the hex nut or replace the valve core if necessary.
- **Valve Core Replacement:** Valve cores can wear out over time. If a valve core is leaking or difficult to operate, replace it with a new high-temp valve core.

7. Troubleshooting

This section addresses common issues you might encounter with your TR618A valve stems.

Problem	Possible Cause	Solution
Air/Liquid Leak from Valve Stem	Loose hex nut, damaged rubber grommet, faulty valve core, damaged valve stem body.	Tighten hex nut. Inspect and replace rubber grommet if damaged. Replace valve core. If valve stem body is damaged, replace the entire valve stem.
Difficulty Inflating/Deflating	Obstructed valve core, bent valve core pin.	Remove valve core and inspect for debris or damage. Clean or replace valve core.
Valve Stem Wobbles	Loose hex nut, incorrect rim hole size.	Tighten hex nut. Ensure the valve stem is compatible with the rim hole size (0.625 inches).

8. Specifications

Attribute	Value
Brand	Hornet Tire
Model	TR618A
Manufacturer Part Number	TR618A
Size	.625
Maximum Pressure	90 Pound per Square Inch
Item Diameter	0.63 Inches
Item Weight	0.08 Kilograms (approx. 2.89 ounces)
Item Dimensions (L x W x H)	2.5 x 0.5 x 0.5 inches
Automotive Fit Type	Vehicle Specific Fit
UPC	649754259076

Attribute	Value
Seasons	Year Round

9. Warranty and Support

Specific warranty details for the Hornet Tire TR618A Tubeless Air Liquid Agriculture Valve Stem are not provided in the product information. For any questions regarding warranty, product support, or technical assistance, please contact Hornet Tire directly through their official channels or the retailer from whom the product was purchased.

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