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Acouto Acoutoxpbz41q8iu

Acouto Manual Tire Machine Air Control Valve

Instruction Manual

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Acouto Manual Tire Machine Air Control Valve. This high-quality component is designed to assist in the control of the auxiliary arm air valve on tire changers, ensuring efficient and reliable performance. Please read this manual thoroughly before use to ensure proper function and safety.

2. PRODUCT OVERVIEW

The Acouto Manual Tire Machine Air Control Valve is a robust and precisely engineered pneumatic control switch. It features a durable aluminum alloy construction, a spring-centered lever, and an automatic reset mechanism for the On/Off function. This valve is crucial for managing the airflow to the assist arm of a tire changer, facilitating smoother tire mounting and demounting operations.



Figure 2.1: Front view of the Acouto Manual Tire Machine Air Control Valve. This image displays the main body of the valve, the control lever, and the general layout of the ports, providing an overall perspective of the product.



Figure 2.2: Top view of the valve, highlighting the air connection ports (P, A, B, R, S). The 'P' port is for pressure input, 'A' and 'B' are working ports, and 'R' and 'S' are exhaust ports, typically connected to mufflers. This view clearly shows the labeling for each port.



Figure 2.3: Side view of the valve, showing the model number "4H230C-08" and the pressure rating "0-0.8 MPa". This perspective provides

3. SPECIFICATIONS

Feature	Specification
Model Number	Acoutoxpbz41q8iu (also identified as 4H230C-08)
Material	Aluminum Alloy
Main Color	Black and Silver
Tube Connector Diameter (P, A, B)	1/4 inch
Muffler Connector Diameter (R, S)	1/8 inch
Operating Pressure	0 - 0.8 MPa
Product Weight	Approx. 210 grams (8.2 oz)
Product Dimensions (L x W x H)	10.4 x 10.2 x 4.6 cm

4. SETUP AND INSTALLATION

This manual control valve is designed as a direct replacement or upgrade for existing tire changer pneumatic systems. Ensure the tire changer's air supply is disconnected and depressurized before beginning installation.

- Identify Ports:** Locate the 'P' (Pressure input), 'A' and 'B' (Working ports), and 'R' and 'S' (Exhaust ports) on the valve. Refer to Figure 2.2 for port identification.
- Connect Air Supply:** Connect the main air supply line from your tire changer's pneumatic system to the 'P' port (1/4 inch diameter). Ensure a secure, airtight connection.
- Connect Working Lines:** Connect the pneumatic lines leading to the assist arm's actuators to the 'A' and 'B' ports (1/4 inch diameter). The specific connection to 'A' or 'B' will determine the direction of the assist arm's movement for each lever position.
- Install Mufflers:** Attach appropriate mufflers to the 'R' and 'S' exhaust ports (1/8 inch diameter). Mufflers reduce noise during operation and prevent debris from entering the valve.
- Secure Mounting:** Mount the valve securely to the tire changer's frame using appropriate fasteners through the mounting holes, if applicable. Ensure it is in a position that allows for easy and safe operation of the lever.
- Test Connections:** Once all connections are made, slowly re-pressurize the air system and check for any air leaks using a soapy water solution. Tighten connections as necessary.

5. OPERATING INSTRUCTIONS

The Acouto Manual Tire Machine Air Control Valve operates via a simple lever mechanism. The valve is designed with a spring-centered position, meaning the lever will automatically return to the neutral (off) position when released.

- Neutral Position:** When the lever is in the central, upright position, no air flows through the 'A' or 'B' working ports. This is the default and resting state of the valve.
- Activating Assist Arm (Direction 1):** Push the lever to one side (e.g., forward or backward, depending on mounting orientation). This will direct air pressure to one of the working ports ('A' or 'B'), activating the assist arm in one direction

(e.g., extending).

- **Activating Assist Arm (Direction 2):** Push the lever to the opposite side. This will direct air pressure to the other working port ('B' or 'A'), activating the assist arm in the opposite direction (e.g., retracting).
- **Automatic Reset:** Upon releasing the lever from either activated position, it will automatically return to the central neutral position due to the internal spring mechanism. This ensures that the assist arm returns to a safe, non-actuated state.

Always operate the valve with controlled movements. Familiarize yourself with the assist arm's response to each lever position before performing tire changing operations.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Acouto Manual Tire Machine Air Control Valve.

- **Daily Inspection:** Visually inspect the valve and all connected hoses for any signs of wear, damage, or air leaks before each use.
- **Cleaning:** Keep the valve body clean and free from dirt, grease, and debris. Use a soft, dry cloth for cleaning. Avoid using harsh chemicals or abrasive materials that could damage the aluminum alloy finish or internal components.
- **Air Quality:** Ensure that the compressed air supply is clean, dry, and filtered. Contaminants in the air can cause premature wear of internal seals and components. Consider installing an air filter/regulator/lubricator (FRL) unit upstream of the valve if not already present in your system.
- **Lubrication:** The valve's internal components are typically pre-lubricated. If your air system includes an air line lubricator, ensure it is properly maintained and filled with appropriate pneumatic oil to provide continuous lubrication to the valve.
- **Connection Integrity:** Periodically check all pneumatic connections for tightness. Loose connections can lead to air leaks and reduced performance.

7. TROUBLESHOOTING

If you encounter issues with your Acouto Manual Tire Machine Air Control Valve, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No air flow or weak air flow to assist arm.	• Air supply disconnected or low pressure. • Blocked air lines or ports. • Valve internal blockage or damage.	• Check air compressor and supply line pressure. • Inspect and clear any obstructions in hoses or valve ports. • If valve is damaged, replacement may be necessary.
Air leaks from valve or connections.	• Loose connections. • Damaged O-rings or seals. • Cracked valve body.	• Tighten all pneumatic fittings. • Inspect and replace any worn or damaged O-rings/seals. • Replace the valve if the body is cracked.

Problem	Possible Cause	Solution
Lever does not return to neutral position automatically.	- Internal spring mechanism failure. - Debris obstructing lever movement.	- Inspect for visible obstructions around the lever base. - If spring is broken, the valve may need replacement.
Assist arm moves in wrong direction.	'A' and 'B' working lines are reversed.	Reverse the connections of the pneumatic lines to the 'A' and 'B' ports.

8. WARRANTY AND SUPPORT

Specific warranty information for the Acouto Manual Tire Machine Air Control Valve is not provided within this manual. Please refer to your purchase documentation or contact the retailer/manufacturer directly for details regarding warranty coverage and support services.

For technical assistance or inquiries, please contact Acouto customer support through their official channels, if available. Always provide your product model number (Acoutoxpbz41q8iu or 4H230C-08) and ASIN (B0C68FHLYM) when seeking support.

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