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MAXITROL RV48-3/4

MAXITROL RV48-3/4 Gas Regulator Instruction Manual

MODEL: RV48-3/4

Product Overview

The Maxitrol RV48-3/4 is a gas pressure regulator designed to maintain a constant outlet pressure within a gas system. This device is suitable for applications requiring a 3/4-inch pipe size and an inlet pressure of 1/2 psi. It operates effectively within a temperature range of 32°F to 225°F. Manufactured by Maxitrol Company in the United States, this regulator ensures reliable performance for industrial and scientific applications.



Image: A silver-colored Maxitrol RV48-3/4 gas regulator with a 3/4-inch threaded inlet/outlet. The top features a large screw for adjustment and a smaller red cap. The unit is compact and designed for precise gas pressure control.

Important Safety Information

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Always ensure gas supply is turned off before installation or maintenance.
- Installation and service must be performed by a qualified installer, service agency, or gas supplier.
- Verify that the regulator specifications match the system requirements.
- Check for leaks after installation using appropriate methods (e.g., soap solution).
- Do not use open flames to check for gas leaks.
- Ensure adequate ventilation during installation and operation.

Setup and Installation

1. **Preparation:** Ensure the gas supply line is clean and free of debris. Verify that all necessary tools and sealing compounds (suitable for gas applications) are available.
2. **Orientation:** Install the regulator in the correct flow direction as indicated by an arrow on the regulator body (if present).
3. **Connection:** The Maxitrol RV48-3/4 features 3/4-inch threaded inlet and outlet connections. Apply appropriate thread sealant to the pipe threads.
4. **Tightening:** Carefully thread the regulator onto the gas line, ensuring not to overtighten, which could damage the threads or the regulator body. Use a wrench on the hex portion of the regulator body to prevent twisting the unit.
5. **Leak Test:** After installation, slowly turn on the gas supply and perform a thorough leak test using a non-corrosive leak detection solution on all connections. Bubbles indicate a leak. If a leak is detected, turn off the gas, tighten connections, and retest.
6. **Ventilation:** Ensure the regulator is installed in a location that allows for proper ventilation, away from ignition sources.

Note: This regulator is designed for a maximum inlet pressure of 0.5 psi and operates within a temperature range of 32°F to 225°F. Ensure these parameters align with your system's requirements.

Operating Instructions

Once properly installed and leak-tested, the Maxitrol RV48-3/4 gas regulator will automatically maintain a consistent outlet pressure, provided the inlet pressure and flow rates are within its specified operating range. No manual adjustment is typically required for standard operation after initial setup, unless specified by system design or a qualified technician.

- Ensure the gas supply valve upstream of the regulator is fully open during operation.
- Monitor system pressure gauges (if installed) to confirm stable operation.
- Do not tamper with the regulator's internal components or adjustment screws unless you are a qualified service technician.

Maintenance

Regular inspection of the gas regulator and associated piping is recommended to ensure safe and efficient operation. Maintenance should only be performed by qualified personnel.

- **Visual Inspection:** Periodically check the regulator for any signs of physical damage, corrosion, or leaks.
- **Leak Checks:** Re-check connections for leaks annually or as required by local codes.
- **Performance Check:** If there are indications of unstable gas pressure or flow, have the regulator inspected by a qualified technician.
- **Replacement:** Regulators have a service life. Consult local codes and manufacturer recommendations for replacement intervals. Do not attempt to repair a damaged regulator; replace it with an approved Maxitrol part.

Troubleshooting

If you experience issues with gas flow or pressure, consider the following general troubleshooting steps. Always prioritize safety and consult a qualified technician for complex problems.

- **No Gas Flow:**

- Check if the main gas supply valve is open.
- Verify that all shut-off valves in the system are open.
- Inspect for blockages in the gas line or regulator inlet.

- **Low Gas Pressure:**

- Ensure the inlet pressure to the regulator meets the minimum requirements.
- Check for partial blockages in the gas line.
- The regulator may be undersized for the required flow rate.

- **High Gas Pressure:**

- This indicates a potential regulator malfunction. Immediately shut off the gas supply and contact a qualified technician. Do not attempt to repair.

- **Gas Leak:**

- Immediately shut off the gas supply.
- Ventilate the area.
- Locate the leak using a soap solution.
- Tighten connections or replace faulty components. If the leak is from the regulator body, replace the entire unit.

For any issues beyond basic checks, contact a certified gas technician or the manufacturer.

Specifications

Feature	Detail
Brand	MAXITROL
Model Number	RV48-3/4
Pipe Size	3/4 inch
Inlet Connection Size	0.75 Inches
Inlet Connection Type	Threaded
Outlet Connection Size	0.75 Inches
Outlet Connection Type	Threaded
Maximum Operating Pressure	0.5 Pound per Square Inch (psi)
Temperature Range	32°F to 225°F
Number of Ports	2

Feature	Detail
Package Dimensions	4.21 x 3.19 x 2.76 inches
Item Weight	8.8 ounces
Manufacturer	Maxitrol Company
Country of Origin	United States
Date First Available	February 13, 2012

Warranty Information

Specific warranty details for the Maxitrol RV48-3/4 Gas Regulator are not provided in the available product information. Please refer to the official Maxitrol Company website or contact their customer service for comprehensive warranty terms and conditions.

Customer Support

For technical assistance, product inquiries, or support regarding the Maxitrol RV48-3/4 Gas Regulator, please contact Maxitrol Company directly. Their official website typically provides contact information, FAQs, and additional resources.

Manufacturer: Maxitrol Company

Website: www.maxitrol.com (Example link, verify actual URL)

Official Product Videos

No official product videos from the seller are available in the provided data for the Maxitrol RV48-3/4 Gas Regulator.

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This manual is for informational purposes only. Always consult with qualified professionals for installation and service.