

## MAXITROL RV52-1/2

# Maxitrol RV52-1/2 Gas Pressure Regulator Instruction Manual

Model: RV52-1/2 | Brand: MAXITROL

## 1. INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of the Maxitrol RV52-1/2 Gas Pressure Regulator. This regulator is designed to control gas pressure in various applications, ensuring consistent and safe gas flow. Please read this manual thoroughly before attempting any installation or operation.

## 2. 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.

- Installation and service must be performed by a qualified installer, service agency, or gas supplier.
- Always shut off the gas supply before working on the regulator or gas lines.
- Perform a leak test after any installation or service using a non-corrosive leak detection solution. Never use an open flame to check for leaks.
- Ensure proper ventilation when working with gas appliances.
- Do not use this regulator for applications other than those specified by the manufacturer.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

## 3. PRODUCT OVERVIEW

The Maxitrol RV52-1/2 is a high-capacity gas pressure regulator designed for use in various gas systems, often in conjunction with R52 series components. It is engineered to maintain a stable outlet pressure despite fluctuations in inlet pressure, ensuring optimal performance and safety for connected gas appliances.



Figure 1: Maxitrol RV52-1/2 Gas Pressure Regulator. This image shows the compact design of the regulator with its inlet and outlet ports, typically featuring a durable metal casing.

## 4. INSTALLATION AND SETUP

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### 4.1 Pre-Installation Checks

- Verify that the regulator model (RV52-1/2) is suitable for your specific gas type and pressure requirements.
- Inspect the regulator for any signs of damage from shipping. Do not install a damaged unit.
- Ensure all necessary tools and fittings are available.
- Confirm that the gas supply is turned off at the main shut-off valve.

### 4.2 Mounting

1. Mount the regulator in an accessible location, protected from physical damage and extreme weather conditions.
2. Ensure the regulator is installed with the flow arrow on the body pointing in the direction of gas flow.
3. The regulator can typically be installed in any position, but refer to local codes and manufacturer guidelines for specific requirements.

### 4.3 Connecting Gas Lines

1. Apply appropriate pipe sealant to male pipe threads only. Do not apply sealant to the first two threads to prevent contamination of the regulator.
2. Connect the inlet gas line to the regulator's inlet port.
3. Connect the outlet gas line to the regulator's outlet port.
4. Tighten all connections securely, but do not overtighten.

#### 4.4 Leak Testing

1. After all connections are made, slowly turn on the main gas supply.
2. Apply a non-corrosive leak detection solution to all connections.
3. Bubbles indicate a leak. If a leak is detected, turn off the gas supply, tighten the connection, and re-test. Repeat until no leaks are present.

#### 4.5 Pressure Adjustment (if applicable)

Some models may allow for outlet pressure adjustment. If your RV52-1/2 model has an adjustment screw, follow these steps:

- Remove the cap covering the adjustment screw.
- Using a suitable screwdriver, turn the screw clockwise to increase outlet pressure or counter-clockwise to decrease it.
- Monitor the outlet pressure with a calibrated gauge during adjustment.
- Replace the cap after adjustment to protect the screw and maintain the setting.

### 5. OPERATION

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Once properly installed and leak-tested, the Maxitrol RV52-1/2 regulator operates automatically to maintain the set outlet pressure. No user intervention is typically required during normal operation.

- Ensure the gas supply to the system is open.
- Verify that connected appliances are receiving gas at the correct pressure.
- Listen for any unusual noises (e.g., whistling, humming) from the regulator, which could indicate an issue.

### 6. MAINTENANCE

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Regular inspection and maintenance are crucial for the safe and reliable operation of your gas pressure regulator. All maintenance should be performed by a qualified technician.

- **Annual Inspection:** Have a qualified technician inspect the regulator annually for signs of wear, corrosion, or damage.
- **Leak Checks:** Periodically perform leak checks on all connections using a non-corrosive leak detection solution.
- **Cleaning:** Keep the exterior of the regulator clean and free from debris. Do not use harsh chemicals or abrasive cleaners.
- **Diaphragm Inspection:** The internal diaphragm should be inspected by a qualified technician for cracks or deterioration.
- **Replacement:** Regulators have a finite lifespan. Consult with a qualified technician regarding recommended replacement intervals based on operating conditions and local codes.

### 7. TROUBLESHOOTING

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If you experience issues with your gas pressure regulator, refer to the following common problems and solutions. For complex issues, contact a qualified service technician.

Problem	Possible Cause	Solution
No gas flow	Main gas supply off; Regulator inlet clogged; Regulator malfunction	Check main gas valve; Inspect and clean inlet (by qualified technician); Replace regulator (by qualified technician)
Low outlet pressure	Inlet pressure too low; Regulator undersized; Diaphragm issue; Adjustment screw incorrect	Verify inlet pressure; Consult specifications for proper sizing; Have technician inspect/replace diaphragm; Adjust pressure (if applicable)
High outlet pressure	Regulator malfunction; Adjustment screw incorrect	Replace regulator (by qualified technician); Adjust pressure (if applicable)
Gas leak detected	Loose connections; Damaged regulator body/seals	Tighten connections and re-test; Replace regulator (by qualified technician)

## 8. SPECIFICATIONS

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The following specifications are for the Maxitrol RV52-1/2 Gas Pressure Regulator. Always refer to the product label for the most accurate and up-to-date information.

- **Model:** RV52-1/2
- **Part Number:** 3822
- **Item Package Quantity:** 1
- **ASIN:** B017RQP87Y
- **Typical Capacity:** Up to 900,000 BTU/hr (refer to specific model data for exact capacity)
- **Inlet Pressure Range:** (Consult product label or Maxitrol documentation)
- **Outlet Pressure Range:** (Consult product label or Maxitrol documentation)
- **Connection Size:** 1/2 inch NPT (National Pipe Taper)
- **Date First Available:** November 9, 2015

*Note: Specific pressure ranges and capacities can vary. Always verify with the product's physical label or official Maxitrol documentation.*

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries regarding your Maxitrol RV52-1/2 Gas Pressure Regulator, please contact Maxitrol directly or your authorized Maxitrol distributor. Keep your purchase receipt and product information handy when contacting support.

**Manufacturer:** MAXITROL

Refer to the official Maxitrol website or product packaging for the most current contact information and warranty details.