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AP Products MEGR-253P

AP Products Marshall Excelsior MEGR-253P User Manual

Model: MEGR-253P | Brand: AP Products

Introduction

The Model MEGR-253 Automatic Changeover Regulator automatically redirects LP gas vapor flow from an empty service cylinder to a reserve cylinder, without interruption of service. It features an easy to read green indicator which changes to red when the service cylinder needs to be refilled. The MEGR-253 and MEGR-253H Series regulators meet UL, RVIA and NFPA requirements.
The Marshall Excelsior MEGR-253P is a two-stage automatic changeover regulator designed for LP gas vapor systems. It ensures continuous gas supply by automatically switching from an empty service cylinder to a reserve cylinder. This manual provides essential information for the safe installation, operation, and maintenance of your regulator.

Safety Information

WARNING: Propane gas is highly flammable and explosive. Improper installation, use, or maintenance can result in fire, explosion, property damage, serious injury, or death. Always follow all local codes and regulations, and consult with a qualified professional if unsure.

- Ensure all connections are tight and leak-free. Use a leak detection solution.
- Do not use open flames for leak testing.
- Install in a well-ventilated area.
- Always turn off gas supply at the cylinder before performing any maintenance or installation.
- This regulator is for outdoor use only.
- Ensure the regulator is installed under a protective cover or with the vent vertically down.

Product Overview



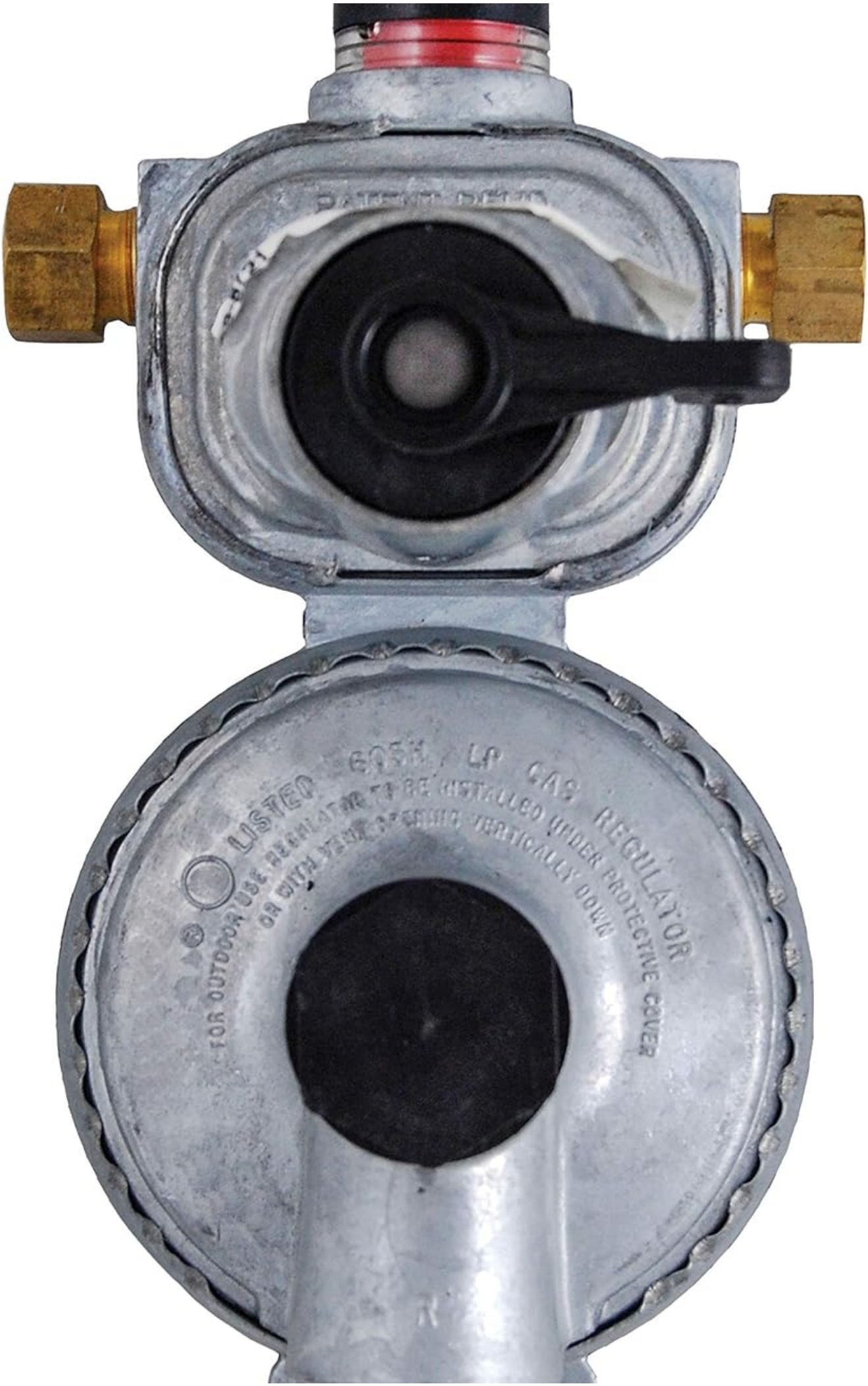

LISTED
LP GAS REGULATOR
FOR OUTDOOR USE
OR WITH VENT OPENING VERTICALLY DOWN



Figure 1: Marshall Excelsior MEGR-253P Two-Stage Automatic Changeover LP Gas Regulator. This image shows the top-down view of the regulator, highlighting its inlet and outlet connections, the black changeover lever, and the main body with visible text indicating "LP GAS REGULATOR" and "FOR OUTDOOR USE".

The MEGR-253P is designed to provide a consistent flow of LP gas to your RV or other outdoor appliances. Its automatic changeover feature ensures that when one cylinder is depleted, the system seamlessly switches to the reserve cylinder, indicated by a change in the color of the indicator.

Setup and Installation

Tools Required: Wrench, Leak Detection Solution.

1. **Mounting:** Securely mount the regulator to a rigid surface using appropriate hardware. Ensure the regulator is installed under a protective cover or with the vent vertically down to prevent water ingress.
2. **Inlet Connections:** Connect the LP gas cylinders to the 1/4" Female Inverted Flare inlet connections using appropriate pigtail hoses. Ensure connections are tight.
3. **Outlet Connection:** Connect the 3/8" FNPT outlet to your appliance's gas line. Ensure this connection is also tight.
4. **Leak Test:** After all connections are made, slowly open the LP gas cylinder valves. Apply a leak detection solution to all connections. Bubbles indicate a leak. If a leak is detected, close the cylinder valves, tighten the connection, and re-test. Do not use the system if leaks persist.
5. **Initial Setup:** Ensure both LP gas cylinders are open. The regulator will automatically draw from the service cylinder. The indicator will show green.

Operating Instructions

The MEGR-253P is designed for automatic operation.

- **Service Cylinder:** The regulator will draw gas from the cylinder selected as the service cylinder. The indicator will be **green**.
- **Automatic Changeover:** When the service cylinder is empty, the regulator will automatically switch to the reserve cylinder. The indicator will change from **green** to **red**.
- **Refilling Service Cylinder:** Once the indicator turns **red**, the service cylinder is empty. Close the valve on the empty cylinder and have it refilled.
- **Resetting the Indicator:** After refilling and reconnecting the empty cylinder, open its valve. Move the changeover lever to point towards the newly refilled cylinder. The indicator should return to **green**. The other cylinder now becomes the reserve.

Maintenance

Regular inspection and maintenance are crucial for safe and efficient operation.

- **Visual Inspection:** Periodically inspect the regulator and all connections for signs of damage, corrosion, or leaks.
- **Leak Checks:** Perform a leak test on all connections annually or whenever connections are disturbed.
- **Hose Inspection:** Check pigtail hoses for cracks, fraying, or damage. Replace if necessary.
- **Regulator Replacement:** Regulators have a finite lifespan. It is recommended to replace LP gas regulators every 5-10 years, or sooner if any issues are observed. Consult a qualified technician for replacement.

Troubleshooting

Problem	Possible Cause	Solution
No gas flow to appliance.	Cylinder valves closed; both cylinders empty; regulator malfunction; excess flow valve tripped.	Open cylinder valves; check and refill cylinders; reset excess flow valve by closing cylinder valve, waiting 30 seconds, then slowly reopening; replace regulator if faulty.
Indicator remains red after refilling cylinder.	Changeover lever not reset; issue with new cylinder.	Ensure changeover lever points to the newly refilled cylinder; check if the refilled cylinder valve is fully open.
Gas odor detected.	Gas leak.	Immediately turn off all gas supply at the cylinders. Ventilate the area. Perform a leak test with solution. Do not use until leak is found and repaired by a qualified professional.

Specifications

Feature	Detail
Model	MEGR-253P
Type	Two-Stage Automatic Changeover Regulator
Max Inlet Pressure	250 PSI
Inlet Connection	1/4" Female Inverted Flare
Outlet Connection	3/8" FNPT
Exterior Finish	Raw Zinc / Powder Coat
Item Weight	1.92 pounds
Product Dimensions	7 x 4 x 3 inches
Country of Origin	China
Compliance	Meets UL, RVIA and NFPA requirements

Warranty and Support

For warranty information or technical support, please contact AP Products customer service. Keep your purchase receipt for proof of purchase.

AP Products Contact Information: Please refer to the official AP Products website or your product packaging for the most current contact details.

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