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› HOSAILAY REPLACEMENTS Propane Gas Pressure Regulator GR-130A User Manual

## HOSAILAY REPLACEMENTS GR-130A

# HOSAILAY REPLACEMENTS Propane Gas Pressure Regulator GR-130A User Manual

Model: GR-130A

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your HOSAILAY REPLACEMENTS GR-130A Propane Gas Pressure Regulator. Please read this manual thoroughly before installation or use to ensure proper function and safety.

**Warning: This gas pressure regulator is designed exclusively for propane gas systems. It is not compatible with natural gas appliances. Ensure the maximum flow capacity of your appliance is less than 30,000 BTU/Hr to achieve the required gas pressure.**

## 2. SAFETY INFORMATION

**Gas installations can be hazardous. It is strongly recommended to hire qualified professionals for installation to prevent accidents and ensure compliance with local codes.**

- **Propane Use Only:** This regulator is strictly for propane gas applications. Do not attempt to use it with natural gas.
- **Professional Installation:** Installation should be performed by a qualified technician in accordance with all applicable local and national codes and regulations.
- **Leak Testing:** After installation, always perform a leak test using a non-corrosive leak detection solution. Never use an open flame to check for leaks.
- **Ventilation:** Ensure adequate ventilation in the area where the regulator and gas appliances are installed.
- **Damage Inspection:** Before installation, inspect the regulator for any signs of damage. Do not install a damaged regulator.
- **No Modifications:** Do not attempt to modify, disassemble, or repair the regulator. Tampering can lead to gas leaks and hazardous conditions.

- **Temperature:** Avoid exposing the regulator to extreme temperatures (too cold or too hot), as this can affect its performance.

### 3. PRODUCT OVERVIEW

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The HOSAILAY REPLACEMENTS GR-130A is a propane gas pressure regulator designed to reduce gas pressure from the supply line to a consistent level required by home appliances and catering equipment, ensuring safe and efficient operation.

#### Key Features:

- Designed for propane gas systems only.
- Inlet and outlet connections: 3/8"-18 FNPT.
- Maximum inlet pressure: 1/2 PSIG.
- Factory set outlet pressure: 10" WC, adjustable range from 7" to 10" WC.
- Maximum flow capacity: 30,000 BTU/Hr.
- Constructed from durable aluminum die casting.



Figure 1: HOSAILAY REPLACEMENTS GR-130A Propane Gas Pressure Regulator, front view.

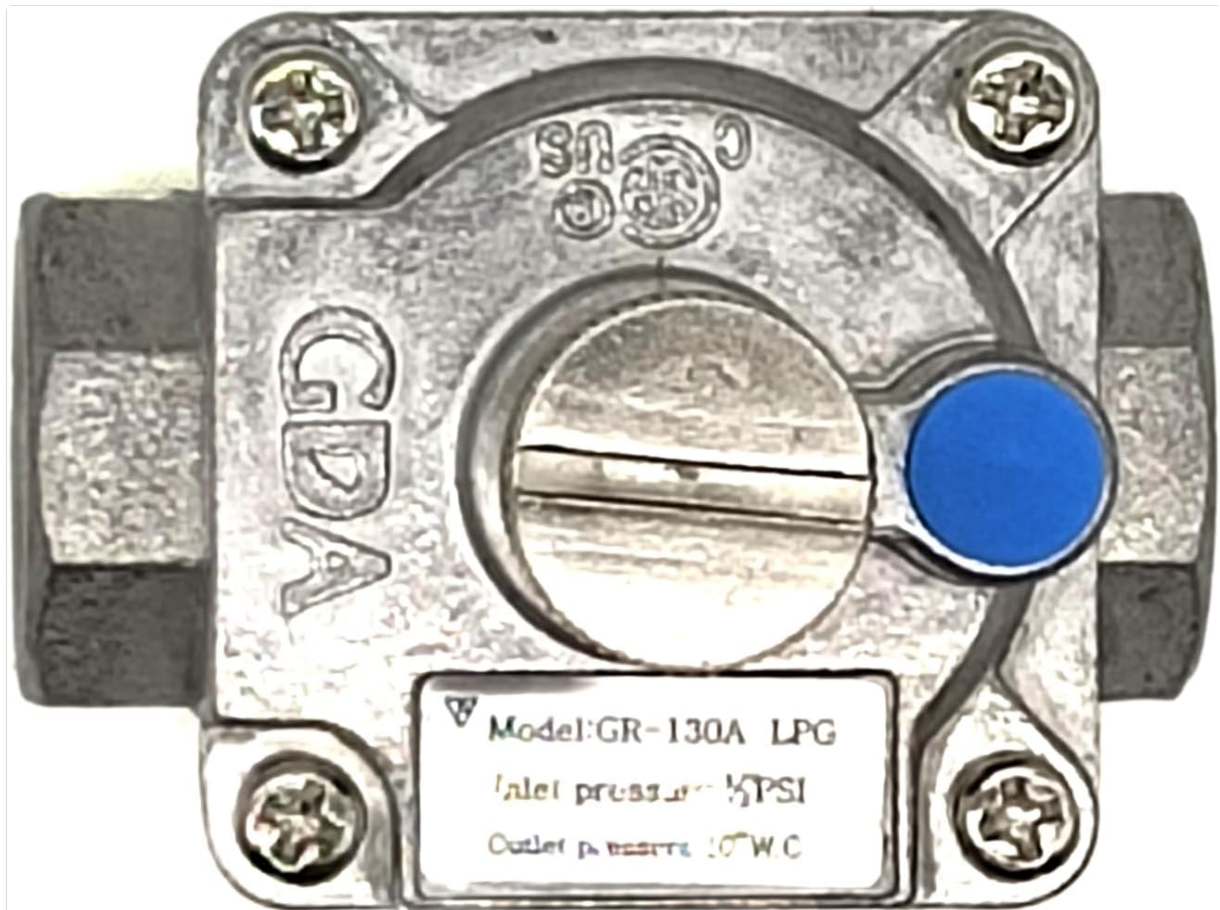


Figure 2: Top view of the GR-130A regulator, displaying the model number and pressure specifications.

## 4. SETUP AND INSTALLATION

1. **Verify Compatibility:** Confirm that your appliance requires a propane gas supply and operates within the regulator's specified flow capacity (max 30,000 BTU/Hr).
2. **Prepare Connections:** The regulator features 3/8"-18 FNPT inlet and outlet connections. Use appropriate 3/8"-18 MNPT pipes to connect to the gas supply and appliance.
3. **Identify Flow Direction:** Locate the flow arrow clearly marked on the regulator body. Ensure the regulator is installed so that the gas flows in the direction indicated by the arrow, from the gas pipeline to the appliance. Inlet and outlet connections are also marked on the body.
4. **Remove Air Cap:** Before use, remove the blue air cap from the regulator. Failure to remove this cap will prevent the diaphragm from functioning correctly, leading to no gas flow.
5. **Secure Connections:** Apply appropriate thread sealant (suitable for gas applications) to all threaded connections. Tighten connections securely to prevent leaks.
6. **Leak Test:** After all connections are made, turn on the gas supply and perform a thorough leak test using a gas leak detection solution. Apply the solution to all connections and look for bubbles, which indicate a leak. If a leak is detected, turn off the gas immediately, tighten connections, and re-test.

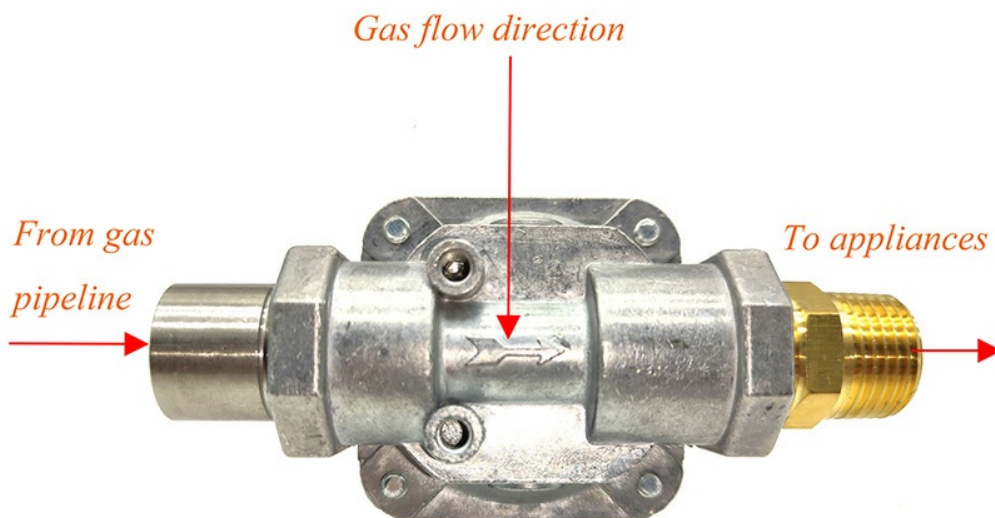


Figure 3: Illustration of gas flow direction through the regulator.



*Several reasons to cause the failure of gas regulator:*

- 1. Choose a wrong inlet&outlet dimension gas regulator. Then the appliances will not attain the right gas pressure for combustion.*
- 2. If the air cap is not removed when it's used, then the diaphragm will not go up and down to let the gas go through. Please remember that, the gas regulator is not defective but good.*
- 3. If dirt or debris get into the gas regulator from air cap or gas inlet, then they could jam them spring or diaphragm to cause the failure of gas regulator.*

Figure 4: Regulator with blue air cap, indicating removal before use.

## 5. OPERATING INSTRUCTIONS

Once properly installed and leak-tested, the GR-130A regulator will automatically maintain the desired outlet pressure for your propane appliance.

- **Initial Operation:** Slowly open the main gas supply valve to allow gas to flow to the regulator.
- **Outlet Pressure:** The regulator is factory-set to an outlet pressure of 10" WC for LP gas.
- **Pressure Adjustment:** The outlet pressure is adjustable within a range of 7" to 10" WC. Adjustment

should only be performed by a qualified technician using appropriate pressure gauges to ensure correct and safe operation. Incorrect adjustment can lead to appliance malfunction or hazardous conditions.

- **Appliance Operation:** Refer to your appliance's instruction manual for specific operating procedures after the gas supply is established.

## 6. MAINTENANCE

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The HOSAILAY REPLACEMENTS GR-130A regulator requires minimal maintenance, but regular checks are important for safety and performance.

- **Regular Inspection:** Periodically inspect the regulator and all connections for any signs of wear, corrosion, or damage.
- **Cleanliness:** Ensure the regulator's air cap area (when removed) and gas inlet are free from debris or dirt. Accumulation of foreign material can affect the internal components (spring or diaphragm) and lead to regulator failure or gas leakage.
- **Environmental Factors:** Be aware that extreme ambient temperatures (both very cold and very hot) can impact the performance of the regulator.
- **No Disassembly:** Do not attempt to loosen screws or disassemble the regulator for cleaning or repair. This can compromise the seal, leading to gas leakage and creating a dangerous situation. If the regulator is suspected to be faulty, it should be replaced by a qualified professional.

## 7. TROUBLESHOOTING

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If you experience issues with your gas pressure regulator, consider the following common causes:

- **No Gas Flow or Low Pressure:**
  - **Air Cap Not Removed:** Ensure the blue air cap has been removed from the regulator. If not, the diaphragm cannot operate, and gas will not flow.
  - **Incorrect Regulator Size:** Verify that the regulator's flow capacity (30,000 BTU/Hr) matches or exceeds the appliance's requirements. An undersized regulator will not provide sufficient gas pressure.
  - **Debris or Dirt:** Check for any debris or dirt in the gas inlet or within the regulator. Foreign particles can obstruct gas flow or jam internal components.
  - **Improper Installation:** Re-check all connections for leaks and ensure the gas flow direction arrow is correctly aligned.
- **Inconsistent Pressure:**
  - **Extreme Temperatures:** Very cold or hot ambient temperatures can affect the internal spring or diaphragm, leading to inconsistent pressure.
  - **Internal Damage:** If the regulator has been dropped or subjected to impact, internal components may be damaged.
- **Gas Leak:**
  - **Loose Connections:** Re-tighten all connections and perform a leak test.
  - **Damaged Regulator:** If the regulator body is cracked or damaged, or if leaks persist after tightening, replace the regulator immediately. Do not attempt to repair it.

**If troubleshooting steps do not resolve the issue, or if you suspect a gas leak, immediately turn off the gas supply and contact a qualified gas technician for assistance. Do not attempt to repair the regulator yourself.**

## 8. SPECIFICATIONS

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Feature	Specification
Model Number	GR-130A
Fuel Type	Propane Gas Only
Inlet Connection Size	3/8"-18 FNPT
Outlet Connection Size	3/8"-18 FNPT
Maximum Inlet Pressure	1/2 PSIG
Outlet Pressure (Factory Set)	10" WC (for LP gas)
Adjustable Outlet Pressure Range	7" to 10" WC (for LP gas)
Maximum Flow Capacity	30,000 BTU/Hr
Material	Aluminum Die Casting
Dimensions (L x W x H)	2.4 x 1.73 x 2.04 inches
Item Weight	3.52 ounces

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or to purchase replacement parts, please contact HOSAILAY REPLACEMENTS directly through their official channels or the retailer where the product was purchased. Visit the HOSAILAY REPLACEMENTS Store for more information.