Bayou Classic 5235

Bayou Classic 5235 Orifice Connector Brass User Manual

Model: 5235

1. Introduction

The Bayou Classic 5235 Orifice Connector is a crucial component designed for connecting LPG hoses to cast iron burners on cooker appliances. This brass fitting ensures proper function, especially for high-pressure gas cookers that typically require a #57 orifice. It is specifically designed to fit Bayou BG10 and BG12 burners, providing a secure and efficient gas flow.

Image 1.1: The Bayou Classic 5235 Orifice Connector, a brass fitting with threaded ends and a hexagonal section for wrenching. It features a 3/8-inch flare male connection on one end and a 1/8-inch male NPT connection on the other, with an internal #57 orifice.

2. Safety Information

WARNING:

Statements regarding dietary supplements have not been evaluated by the FDA and are not intended to diagnose, treat, cure, or prevent any disease or health condition. This product is a brass connector and should be handled with care. Always ensure proper ventilation when working with gas appliances. Consult a qualified professional for gas installations and repairs.

Proposition 65 Warning:

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

3. Product Overview

The Bayou Classic 5235 Orifice Connector is a precision-engineered brass fitting. Key features include:

- **Material:** Constructed from durable brass for longevity and corrosion resistance.
- **Orifice Size:** Features a #57 orifice, critical for regulating gas flow in high-pressure applications.
- **Connections:** Equipped with a 3/8" Flare Male (M) connection and a 1/8" Male National Pipe Taper (MNPT) thread.
- **Compatibility:** Designed to fit Bayou BG10 and BG12 burners, ensuring a perfect match for specific Bayou Classic cooker models.

4. Setup and Installation

Proper installation of the orifice connector is essential for safe and efficient operation of your gas cooker. Follow these steps carefully:

1. **Ensure Safety:** Before beginning, ensure that the gas supply to the appliance is completely shut off and disconnected.
2. **Identify Connections:** The 3/8" Flare M end of the connector is designed to connect to the LPG hose, while the 1/8" MNPT end connects to the cast iron burner.
3. **Apply Sealant (NPT side):** For the 1/8" MNPT threaded connection to the burner, apply an appropriate gas-rated thread sealant (e.g., pipe dope or PTFE tape) to the male threads to ensure a gas-tight seal. Do not apply sealant to flare fittings.
4. **Connect to Burner:** Carefully thread the 1/8" MNPT end of the orifice connector into the corresponding port on your Bayou BG10 or BG12 burner. Tighten securely with a wrench, but do not overtighten.
5. **Connect LPG Hose:** Connect the 3/8" Flare F (female) end of your LPG hose to the 3/8" Flare M end of the orifice connector. Flare connections create a mechanical seal and do not require thread sealant. Tighten the flare nut firmly.
6. **Leak Test:** After installation, reconnect the gas supply and perform a leak test using a soapy water solution. Apply the solution to all connections. If bubbles appear, there is a leak. Tighten connections or reapply sealant as necessary until no bubbles are observed.

Note: *This orifice is specifically sized (#57) for high-pressure gas cookers to ensure proper flame characteristics and heat output. Using an incorrect orifice size can lead to inefficient burning or safety hazards.*

5. Operating Instructions

Once the Bayou Classic 5235 Orifice Connector is correctly installed and leak-tested, it facilitates the proper flow of

LPG to your burner. Its operation is passive, as it is a fixed component in the gas line.

- **Gas Flow Regulation:** The internal #57 orifice precisely restricts the gas flow, ensuring the correct air-to-fuel mixture for optimal combustion and a stable blue flame on compatible burners.
- **Burner Performance:** When used with Bayou BG10 or BG12 burners, this orifice helps achieve the intended high-pressure cooking performance.
- **Monitoring:** Periodically observe the flame on your burner. A strong, blue flame indicates proper gas flow and combustion. A weak, yellow, or flickering flame may indicate an issue with gas supply, pressure, or the orifice itself.

6. Maintenance

The Bayou Classic 5235 Orifice Connector requires minimal maintenance due to its durable brass construction. However, periodic inspection is recommended:

- **Visual Inspection:** Regularly check the connector for any signs of damage, corrosion, or wear. Ensure all connections remain tight.
- **Cleaning:** If the exterior becomes dirty, wipe it with a soft, damp cloth. Avoid abrasive cleaners or harsh chemicals that could damage the brass finish.
- **Orifice Obstruction:** While rare, ensure the internal orifice remains clear of debris. If you suspect an obstruction (e.g., poor flame performance), disconnect the gas supply and carefully inspect the orifice. Do not attempt to enlarge the orifice.
- **Storage:** If the cooker is stored for an extended period, ensure the connector is clean and dry.

7. Troubleshooting

If you experience issues with your gas cooker that you suspect might be related to the orifice connector, consider the following:

Problem	Possible Cause	Solution
Weak or Yellow Flame	Incorrect gas pressure, partially clogged orifice, or incorrect orifice size.	Verify gas pressure regulator settings. Disconnect gas supply and inspect orifice for obstructions. Ensure the #57 orifice is appropriate for your setup.
Gas Leak (Scent of gas, hissing, or bubbles during leak test)	Loose connections, damaged threads, or improper sealant application.	Immediately shut off gas supply. Retighten all connections. Reapply gas-rated thread sealant to NPT connections if necessary. Inspect for damaged components and replace if found.
Burner Not Lighting	No gas flow, completely clogged orifice, or issue with igniter/burner.	Check gas supply. Inspect orifice for complete blockage. Consult your burner's manual for igniter troubleshooting.

If troubleshooting steps do not resolve the issue, or if you are unsure about any gas-related procedures, contact a qualified gas appliance technician.

8. Specifications

Attribute	Detail

Brand	Bayou Classic
Model Number	5235
Material	Brass
Orifice Size	#57 (0.0430 inch diameter)
Connector Type	Flare (3/8" Flare M) and NPT (1/8" MNPT)
Product Dimensions (L x W x H)	0.8 x 3.5 x 3.5 inches
Item Weight	0.01 Ounces
Exterior Finish	Brass
Date First Available	March 18, 2008

9. Warranty and Support

For specific warranty information regarding the Bayou Classic 5235 Orifice Connector, please refer to the documentation provided with your purchase or contact Bayou Classic customer support directly. As a general guideline, Bayou Classic products are known for their durability and quality.
For technical assistance or further inquiries, please visit the official Bayou Classic website or contact their customer service department. Always ensure you have your product model number (5235) ready when seeking support.

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