

GRYVOZE C11

GRYVOZE 3/4" NPT Automatic Fuel Nozzle Instruction Manual

Model: C11

1. INTRODUCTION

Thank you for choosing the GRYVOZE 3/4" NPT Automatic Fuel Nozzle. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your new fuel nozzle. Please read this manual thoroughly before use and retain it for future reference.



Image: The GRYVOZE Automatic Fuel Nozzle is designed for easy and efficient refueling.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE) when handling fuels.
- Ensure proper ventilation in the work area to prevent accumulation of flammable vapors.
- Keep ignition sources (sparks, open flames, hot surfaces) away from the fueling area.
- Do not smoke while refueling.
- This nozzle is designed for use with a pressure pump or dispenser. **It does not support gravity flow.**

- For use with water or other non-fuel liquids, flush the nozzle with alcohol or warm water and a mild detergent before first use to remove any residual kerosene from factory testing.
- Ensure the nozzle is securely inserted into the tank opening before activating flow.
- Do not leave the nozzle unattended during operation, even with the auto-lock feature engaged.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 × Automatic 3/4" Fuel Nozzle (with pre-installed green PVC casing)
- 1 × Replacement Blue PVC Casing
- 1 × User Manual



Image: Included components: green nozzle, blue casing, and user manual.

4. PRODUCT OVERVIEW

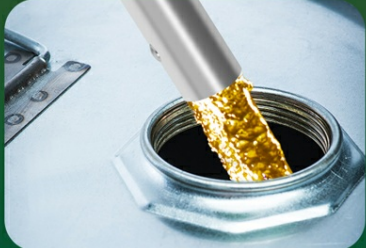
Widely Used In

- ◆ Gas Stations
- ◆ Fuel Transfer
- ◆ Fuel Storage









Fit Many

- ◆ Fuel Hoses
- ◆ Fuel Pumps



Image: Detailed diagram of the fuel nozzle components.

The GRYVOZE Automatic Fuel Nozzle features a durable aluminum alloy body with a non-slip, corrosion-resistant PVC casing. Key features include:

- **Auto Shut-Off:** Automatically stops refueling when the tank is full or if the nozzle slips, preventing spills.
- **3-Position Auto-Lock:** Allows for hands-free operation with adjustable flow rates.
- **Ergonomic Handle:** Designed for comfortable grip and reduced fatigue.
- **Hook Design:** For secure attachment to a fuel transfer pump or dispenser hanger.

- **Standard Threaded Interface:** 3/4" NPT inlet for excellent sealing and compatibility.
- **Oil Inlet Filter Screen:** Built-in screen for contaminant removal without affecting flow.

5. SPECIFICATIONS

Dual Auto Shut-Off for Safer Refueling



Full-Tank Shut-Off:
The fuel nozzle automatically shuts off when the fuel level reaches the Self Sealing Sensor Port, preventing overflow.



Drop Shut-Off:
Instantly stops fuel flow if the nozzle drops or falls from the tank.

Image: Key specifications and dimensions of the fuel nozzle.

Feature	Specification
Material	Aluminum Alloy
Inlet Connection Size	3/4" NPT
Outlet Connection Size	13/16" (20.6mm) OD
Maximum Flow Rate	16 GPM (60 L/min)
Maximum Operating Pressure	50 PSI (0.35 MPa)
Minimum Working Temperature	-20°F (-29°C)
Product Dimensions (L x W x H)	13.58 x 2.17 x 6.8 inches
Item Weight	2.2 pounds
Color	Green (with blue replacement casing)
Specification Met	UL

6. SETUP AND INSTALLATION

1. **Unpacking:** Carefully remove all components from the packaging. Inspect the nozzle for any signs of damage.
2. **Casing Installation (Optional):** The nozzle comes with a green PVC casing pre-installed. If you wish to use the blue casing, gently remove the green casing and slide on the blue one.
3. **Connecting to Hose:** Connect the 3/4" NPT inlet thread of the nozzle to a compatible fuel hose. Ensure a tight, leak-free connection. Use appropriate thread sealant if necessary.
4. **Initial Flush (for Water Use):** If you intend to use the nozzle for water or other non-fuel liquids, flush it thoroughly with alcohol or warm water and a mild detergent before its first use. This removes any residual kerosene from

factory testing.

5. **System Check:** Before full operation, perform a visual check for any leaks at connection points.

7. OPERATING INSTRUCTIONS

7.1 Automatic Shut-Off Feature

The nozzle is equipped with a dual automatic shut-off mechanism for enhanced safety:

- **Full-Tank Shut-Off:** The nozzle automatically stops fuel flow when the liquid level reaches the self-sealing sensor port at the tip, preventing overfilling and spills.
- **Drop Shut-Off:** Fuel flow instantly stops if the nozzle slips or falls from the tank opening.

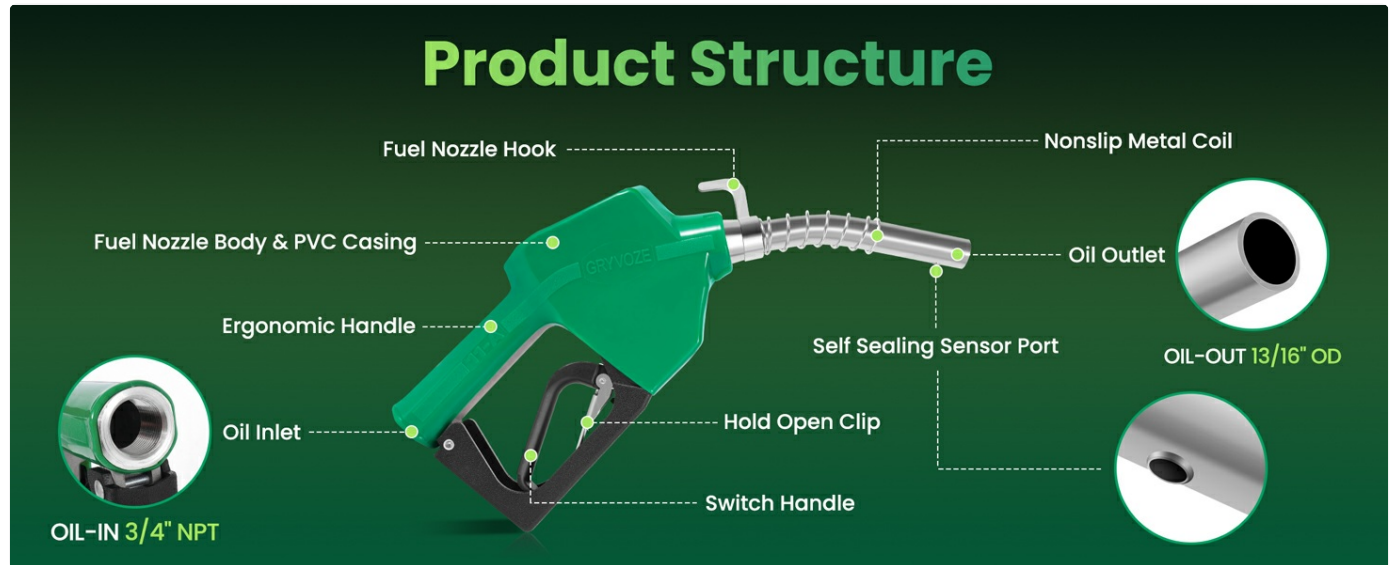


Image: Auto Shut-Off mechanism and sensor port.

Image: Dual Auto Shut-Off for safer refueling.

7.2 Three-Position Auto-Lock

The nozzle features a 3-position auto-lock mechanism, allowing you to set the desired flow rate and operate hands-free:

1. Insert the nozzle securely into the tank opening.
2. Squeeze the switch handle to begin fuel flow.
3. To engage the auto-lock, push the hold-open clip into one of the three notches on the switch handle. Each notch corresponds to a different flow rate (low, medium, high).
4. To disengage, simply squeeze the handle again.

Common Issues and Troubleshooting

1. Auto Shut-Off Issues

Issue: Nozzle fails to shut off, shuts off too early, or fuel drips after shut-off.

Possible Causes & Solutions:

Debris or damage in the nozzle tube, auxiliary valve, vacuum sensing tube, or shut-off mechanism.

→ Clean internal parts, check O-rings, clear vacuum tube with compressed air, and replace damaged components as needed.

Occasional failure or frequent shut-off is often caused by minor obstructions.

→ Disassemble and clean shut-off components.

2. Fuel Leakage

Locations & Causes:

Nozzle tip: Worn or misplaced O-rings, debris, or weak springs.

Handle/trigger area: Dirty or dry plunger, damaged plunger O-ring.

Inlet connection: Cracked due to over-tightening.

Solution:

Replace seals, clean and lubricate moving parts, avoid over-torquing during installation.

Image: Three-Position Auto-Lock for adjustable flow.

7.3 Compatible Fluids and Applications

This nozzle is compatible with diesel, gasoline, kerosene, biodiesel (up to B20), and water. It is widely used in various settings:

- Gas stations
- Farms (tractors, generators)
- Ships and marine applications
- Construction sites
- Oil tankers and oil pumps

3. Flow & Operation Problems

Issue: Fuel flow is slow or blocked; handle is hard to operate; trigger can't lock.

Possible Causes & Solutions:

(1) Slow flow: Clogged filter, low pump pressure, or internal blockage.

→ Inspect pump, filter, and nozzle internals.

(2) Stiff handle or stuck latch: Lack of lubrication or worn springs.

→ Clean, lubricate, and replace worn components if needed.

(3) Trigger won't lock: Worn or jammed latch mechanism.

→ Clean or replace locking parts.



Usage Notes

1. This nozzle is not suitable for **gravity-fed tanks or systems**. It must be used with a **fuel pump or dispenser**.

2. Keep automatic shut-off sensor port clean to ensure reliable automatic shut-off.



Image: Wide range of applications for the fuel nozzle.

8. MAINTENANCE

- **Keep Sensor Port Clean:** Regularly inspect and clean the automatic shut-off sensor port at the nozzle tip to ensure reliable operation. Obstructions can prevent proper shut-off.
- **General Cleaning:** Wipe down the nozzle exterior with a clean cloth after each use to remove fuel residue and dirt.
- **Storage:** Utilize the integrated hook to store the nozzle securely on a dispenser or hanger, keeping it clean and preventing damage.

- **Inspection:** Periodically check the nozzle for any signs of wear, damage, or leaks. Replace worn components or the entire nozzle if necessary.

9. TROUBLESHOOTING

Refer to the following table for common issues and their solutions:

Common Issues and Troubleshooting

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- Occasional failure or frequent shut-off is often caused by minor obstructions. → Disassemble and clean shut-off components.

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Locations & Causes:

- Nozzle tip: Worn or misplaced O-rings, debris, or weak springs.
- Handle/trigger area: Dirty or dry plunger, damaged plunger O-ring.
- Inlet connection: Cracked due to over-tightening.

Solution: Replace seals, clean and lubricate moving parts, avoid over-torquing during installation.

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Issue: Fuel flow is slow or blocked; handle is hard to operate; trigger can't lock.

Possible Causes & Solutions:

- (1) Slow flow: Clogged filter, low pump pressure, or internal blockage. → Inspect pump, filter, and nozzle internals.
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Usage Notes ⚠

- This nozzle is not suitable for gravity-fed tanks or systems. It must be used with a fuel pump or dispenser.
- Keep automatic shut-off sensor port clean to ensure reliable automatic shut-off.

10. PRODUCT VIDEO

Your browser does not support the video tag.

Video: Official product demonstration of the GRYVOZE 3/4" NPT Automatic Fuel Nozzle, showcasing its features and operation.

11. WARRANTY AND SUPPORT

Specific warranty information is not provided in this manual. For details regarding warranty coverage, returns, or technical support, please refer to the product packaging, contact the retailer where the product was purchased, or visit the official GRYVOZE website.

Manufacturer: GRYVOZE

UPC: 850072214207

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question