

GRYVOZE B313

GRYVOZE Mechanical Oil Control Valve Flow Meter
Dispenser Nozzle (Model B313) User Manual

Model: B313 | Brand: GRYVOZE

1. INTRODUCTION

The GRYVOZE Mechanical Oil Control Valve Flow Meter Dispenser Nozzle, Model B313, is designed for precise and efficient dispensing of various oils in industrial and automotive settings. This robust, fully mechanical device provides accurate flow measurement without the need for batteries or complex calibration, ensuring reliable performance in demanding environments. It is suitable for both light and heavy-duty applications, offering ease of use and durability.



Image: The GRYVOZE B313 dispenser nozzle in operation, demonstrating its straightforward and maintenance-free design.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the GRYVOZE B313 dispenser nozzle. Failure to follow these instructions may result in injury or damage to the equipment.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when handling oils and operating the dispenser.
- Ensure the work area is well-ventilated and free from ignition sources, as some oils may be flammable.

- Do not exceed the maximum working pressure of 1500 PSI (100 bar).
- Operate the dispenser within the specified temperature range of -10 °C to +50 °C (14 °F to 122 °F).
- Keep the dispenser clean and free from debris to prevent malfunctions.
- Ensure all connections are secure before operation to prevent leaks.

Important: This dispenser is NOT FOR USE with Gasoline, Water, Alcohol, or Corrosive Chemicals. Use only with compatible medium- to high-viscosity oils as specified.

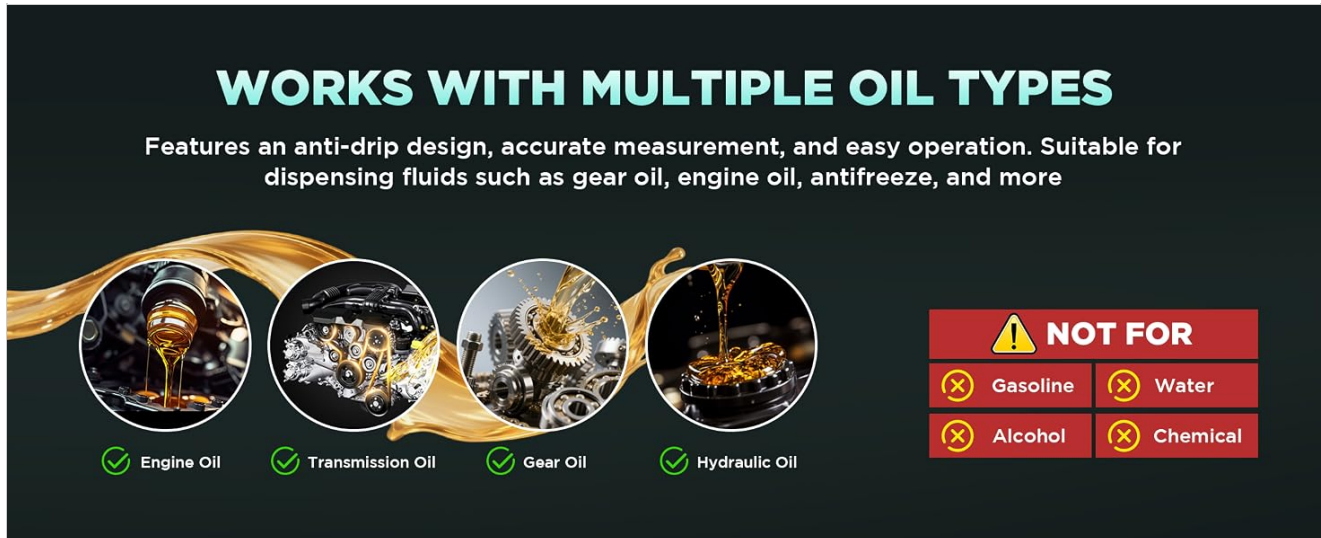


Image: Visual guide indicating suitable oil types (Engine Oil, Transmission Oil, Gear Oil, Hydraulic Oil) and unsuitable liquids (Gasoline, Water, Alcohol, Chemical).

3. PRODUCT FEATURES

The GRYVOZE B313 dispenser nozzle incorporates several features designed for performance and user convenience:

- **Mechanical Flow Meter:** Measures oil flow from 0.26–9.25 GPM with $\pm 0.5\%$ accuracy. No batteries, setup, or calibration required.
- **Durable Construction:** Fully mechanical design, waterproof, dustproof, and temperature-resistant for harsh industrial environments. Constructed from aerospace-grade aluminum for corrosion, wear, and oxidation resistance.
- **Precise Measurement Display:** Features a clear, easy-to-read dial displaying both total and resettable batch quantities in quarts.
- **Automatic Shutoff Tip:** Anti-drip design prevents leaks from the outlet, ensuring clean and precise dispensing.
- **Flexible Hose & 90° Outlet:** The flexible rubber hose allows access to tight areas, and the 90° motor oil gun outlet facilitates smoother refueling.
- **Ergonomic Design:** Comfortable handle with a locking trigger for controlled, hands-free operation.
- **360° Swivel Inlet:** Allows for easier hose connection and reduced leakage.
- **Built-in Filter:** Integrated filter ensures smoother flow and prevents impurities from entering the system.

Built for Precision and Reliability

Robust, Multi-Purpose, and User-Friendly Design



Compact & Reliable



Zero Back Pressure for Smooth Flow



Durable & Sturdy



Image: The robust construction of the GRYVOZE B313, designed to withstand challenging conditions.

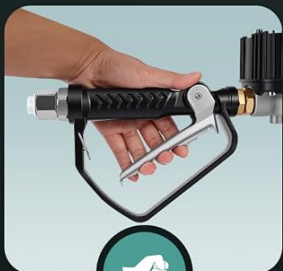
Mechanical OIL CONTROL VALVE

Maximum Flow Rate	10 GPM / 37QPM / 35 LPM
Maximum Working Pressure	1500 PSI / 100 bar
Working Temperature	-10°C to +50°C (14°F to 122°F)
Accurate Value	± 0.5%
Applicable Oil Viscosity	8–5000 mPa·s
Swivel Inlet	½" NPT



Image: Detailed view of the mechanical flow meter, showing the easy-to-read dial for total and batch measurements.

USER-FRIENDLY DESIGN



Ergonomic Shockproof Handle



Locking Switch for Hands-free Operation



Oil Inlet with Strainer for Filtering Impurities



360° Swivel 1/2-Inch NPT Oil Inlet Connection

Image: Key ergonomic and design features, including the comfortable grip, locking trigger, and swivel inlet.

4. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x GRYVOZE Mechanical Oil Control Gun with Meter
- 1 x User Manual

Effortless Operation - Maintenance-Free & Battery-Free



**Factory-Calibrated —
Ready to Use and Easy to Operate**



**No Battery, No Downtime —
Always ready for continuous operation**

Image: The GRYVOZE B313 dispenser nozzle and its accompanying user manual.

5. SETUP

Follow these steps to set up your GRYVOZE B313 dispenser nozzle:

1. **Inspect the Unit:** Before first use, visually inspect the dispenser for any signs of damage from shipping. Ensure all components are securely attached.
2. **Connect to Hose:** Attach the 1/2" NPT inlet of the dispenser nozzle to your oil supply hose. Ensure the connection is tight and secure to prevent leaks. The 360° swivel inlet allows for flexible positioning.
3. **Verify Compatibility:** Confirm that the oil to be dispensed is compatible with the unit (medium- to high-viscosity oils only). Refer to the Safety Information section for incompatible liquids.
4. **Initial Flow Check:** Before dispensing into a target container, perform a brief test flow into a waste container to ensure proper operation and to prime the system.

6. OPERATING INSTRUCTIONS

Operating the GRYVOZE B313 dispenser nozzle is straightforward:

1. **Position the Nozzle:** Place the flexible rubber hose and 90° outlet into the fill opening of the target container or engine. The flexible design allows access to tight or hard-to-reach areas.
2. **Dispense Oil:** Squeeze the trigger handle to begin dispensing oil. The flow meter will immediately start measuring the dispensed quantity.
3. **Use Locking Trigger (Optional):** For continuous dispensing, engage the locking trigger mechanism. To disengage, simply squeeze the trigger again.
4. **Monitor Measurement:** Observe the clear dial on the flow meter. The top display shows the total accumulated quantity, while the bottom display shows the current batch quantity. Measurements are in U.S. Quarts.
5. **Stop Dispensing:** Release the trigger to stop the flow. The automatic shutoff tip will prevent drips.
6. **Reset Batch Counter:** After each dispensing operation, press the mechanical reset button on the flow meter to clear the batch quantity for the next measurement. The total quantity will continue to accumulate.

Durable Mechanical Design — Waterproof, Dustproof, Shockproof



Fully Mechanical Design — Waterproof,
Dustproof, and Temperature-Resistant

Shockproof & Impact-Resistant —
Reliable in Harsh Conditions

7. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your GRYVOZE B313 dispenser nozzle.

7.1 General Cleaning

- After each use, wipe down the exterior of the dispenser with a clean cloth to remove any oil residue.
- Periodically check the inlet filter for any accumulated debris and clean if necessary.

7.2 Flow Chamber Disassembly & Cleaning

If the flow meter's accuracy is compromised or flow is restricted, the internal flow chamber may require cleaning. Follow these steps:

1. **Remove Protective Cover:** Carefully remove the rubber protective cover from the flow meter.
2. **Unscrew Screws:** Unscrew the four screws located at the bottom of the flow meter housing.
3. **Lift Top Cover:** Gently lift off the top cover of the flow meter.
4. **Remove Oval Gears:** Carefully take out the oval gears from the chamber. Note their orientation for reassembly.
5. **Clean Chamber:** Clean the flow chamber and passages with a soft brush or cloth. Use a suitable cleaning agent if necessary, ensuring it is compatible with aluminum and rubber components.
6. **Reassemble:** Reassemble all parts in reverse order, ensuring the oval gears are correctly positioned and the screws are firmly secured.



Aircraft-Grade Aluminum Construction

Aircraft aluminum is lightweight, durable, and corrosion-resistant, making it ideal for high-frequency use and harsh environments.

Leak-Proof & Flexible Refueling Design

Automatic leak-proof tip and flexible design ensure clean, precise, and effortless refueling in any position



Image: Visual instructions for disassembling and cleaning the flow meter's internal components.

8. TROUBLESHOOTING

If you encounter issues with your GRYVOZE B313 dispenser nozzle, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No oil flow or restricted flow	Clogged inlet filter; Blockage in nozzle or hose; Insufficient oil supply pressure.	Check and clean the inlet filter. Inspect nozzle and hose for blockages. Ensure adequate oil supply pressure.
Inaccurate flow meter readings	Debris in flow chamber; Incorrect oil viscosity; Air in the system.	Clean the flow chamber (refer to Maintenance section). Ensure oil viscosity is within specified range. Bleed air from the system if present.
Oil leakage from connections	Loose connections; Damaged seals/O-rings.	Tighten all connections. Inspect and replace any damaged seals or O-rings.
Batch counter not resetting	Mechanical reset button stuck or damaged.	Ensure the reset button is not obstructed. If damaged, contact customer support.

If the problem persists after attempting these solutions, please contact GRYVOZE customer support for further assistance.

9. SPECIFICATIONS

Detailed technical specifications for the GRYVOZE B313 Mechanical Oil Control Valve Flow Meter Dispenser Nozzle:

Specification	Value
Model Number	B313
Brand	GRYVOZE
Material	Aluminum
Item Dimensions (L x W x H)	22.84 x 3.74 x 7.87 inches
Item Weight	4.26 Pounds
Inlet Connection Size	1/2 Inch
Inlet Connection Type	National Pipe Tapered (NPT)
Outlet Connection Size	0.5 Inches
Outlet Connection Type	NPT
Maximum Operating Pressure	1500 PSI / 100 bar
Flow Rate Range	0.26–9.25 GPM (1–35 LPM)
Accuracy	±0.5%
Working Temperature	-10 °C to +50 °C (14 °F to 122 °F)

Specification	Value
Applicable Oil Viscosity	8–5000 mPa·s
Number of Ports	2
Valve Type	Globe Valve
UPC	850072214306

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your GRYVOZE B313 Mechanical Oil Control Valve Flow Meter Dispenser Nozzle, please contact GRYVOZE customer support directly. Refer to the product packaging or the official GRYVOZE website for contact details.

Please retain your purchase receipt as proof of purchase for any warranty claims.

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Question

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Details

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

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