

GPI M-240S-MU

GPI M-240 Series Fuel Transfer Pump User Manual

Model: **M-240S-MU** | Brand: **GPI**

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your GPI M-240 Series Fuel Transfer Pump. Please read this manual thoroughly before installation or operation to ensure proper use and to prevent injury or damage.

The GPI M-240S-MU fuel transfer pump features a rotary gear design and is constructed from corrosion-resistant diecast aluminum. It is specifically designed for agricultural, automotive, and construction applications. The M-240S-MU includes a manual nozzle, fuel hose, and power cord. It operates with a duty cycle of 30 minutes ON and 30 minutes OFF, an operating pressure of 15 psi (1.03 bar), and an operating temperature range of -20°F to 125°F (-29°C to 52°C). This pump is designed for use with a 24-volt power source. The motor is U.L. Listed to U.S. and Canadian Standards.

2. IMPORTANT SAFETY INFORMATION

WARNING: Failure to follow these instructions may result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE), including eye protection, when operating or maintaining the pump.
- Ensure the pump is used only with compatible fluids as specified by the manufacturer. Do not use with water, corrosive chemicals, or highly volatile liquids not approved for this pump.
- Verify that the power source matches the pump's voltage requirements (24 Volt DC). Incorrect voltage can cause damage to the pump and pose a fire hazard.
- Do not operate the pump in the presence of open flames, sparks, or other ignition sources. Fuel vapors are highly flammable.
- Ensure adequate ventilation when operating the pump, especially in enclosed spaces.
- Regularly inspect hoses, connections, and the pump body for leaks or damage. Replace damaged components immediately.
- Adhere to the specified duty cycle (30 minutes ON, 30 minutes OFF) to prevent motor overheating and prolong pump life.
- Keep children and unauthorized personnel away from the pump during operation.

- This product may 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. PACKAGE CONTENTS

Before beginning installation, verify that all components are present and undamaged. If any parts are missing or damaged, contact GPI customer service.

- GPI M-240 Series Fuel Transfer Pump Unit
- Manual Shut-off Nozzle
- Fuel Hose
- Power Cord
- Mounting Hardware (Spin Collar)
- Instruction Manual



Figure 3.1: All components included with the GPI M-240 Series Fuel Transfer Pump, including the pump unit, manual nozzle, fuel hose, power cord, and mounting accessories.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your fuel transfer pump.

4.1 Mounting the Pump

The M-240S-MU pump features a spin collar mount for easy installation onto a tank or barrel. Ensure the mounting surface is stable and capable of supporting the pump's weight and the weight of the fuel it will transfer.

1. Securely attach the pump to the tank opening using the spin collar. Ensure a tight, leak-free connection.
2. Position the pump so that the hose and nozzle can reach the desired dispensing location without strain.



Figure 4.1: The GPI M-240 Series Fuel Transfer Pump securely mounted on a fuel tank, ready for operation.

4.2 Connecting Hoses and Nozzle

1. Connect the fuel hose to the pump's outlet. Ensure all connections are tight to prevent leaks.
2. Attach the manual shut-off nozzle to the other end of the fuel hose.

4.3 Electrical Connection

The pump requires a 24-volt DC power source.

1. Connect the power cord to the pump.
2. Connect the other end of the power cord to a suitable 24-volt DC power supply. Ensure proper polarity.
3. Verify all electrical connections are secure and protected from environmental elements.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective fuel transfer.

1. Ensure the pump is securely mounted and all hose and electrical connections are tight.
2. Place the nozzle into the receiving tank or container.
3. Activate the pump. The pump is designed for a duty cycle of **30 minutes ON, 30 minutes OFF**. Adhering to this cycle is critical to prevent motor overheating.
4. Begin dispensing fuel by engaging the manual nozzle lever.
5. Monitor the fuel transfer process. Do not leave the pump unattended during operation.
6. Once the desired amount of fuel has been transferred, release the nozzle lever to stop the flow.
7. Deactivate the pump and return the nozzle to its holder.



Figure 5.1: The GPI M-240 Series Fuel Transfer Pump, showing the main unit, hose, and manual shut-off nozzle.

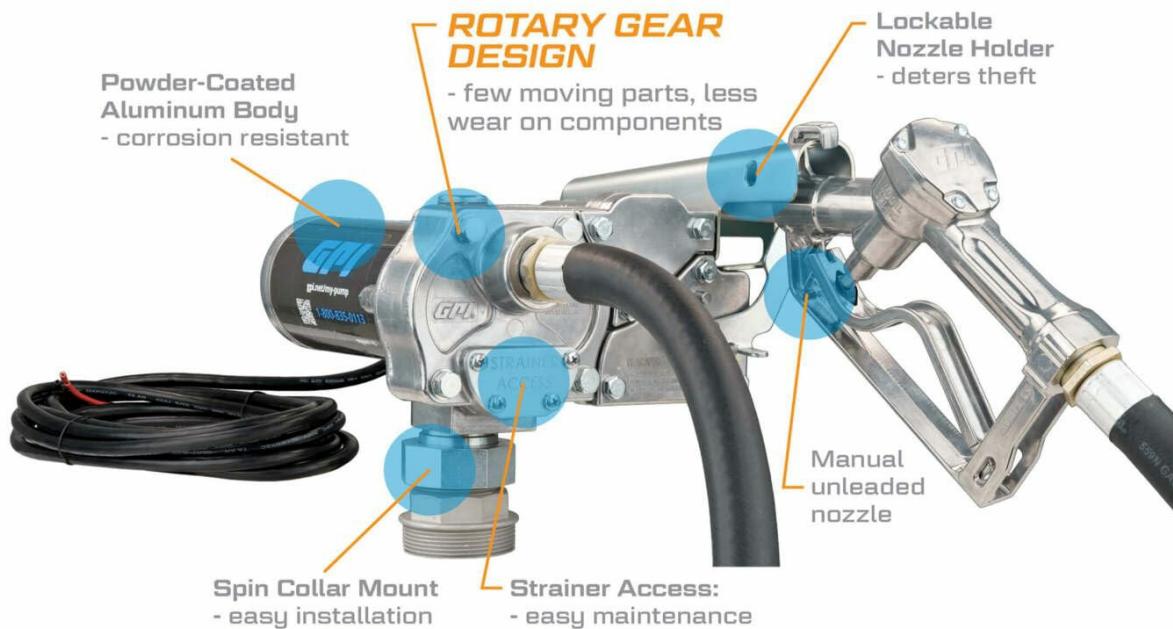


Figure 5.2: Key features of the pump, including the rotary gear design, powder-coated aluminum body, spin collar mount, strainer access, lockable nozzle holder, and manual unleaded nozzle.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your pump.

6.1 Cleaning the Pump

- Keep the exterior of the pump clean and free from dirt and debris.
- Wipe down the pump with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

6.2 Strainer Maintenance

The pump is equipped with a strainer to prevent debris from entering the pump mechanism. Regular inspection and cleaning of the strainer are essential.

1. Disconnect the pump from the power source.
2. Locate the strainer access point (refer to Figure 5.2 for location).

3. Carefully remove the strainer cover and extract the strainer element.
4. Clean the strainer element thoroughly with a suitable solvent or brush.
5. Inspect the strainer for any damage. Replace if necessary.
6. Reinstall the clean strainer element and secure the cover.

6.3 General Inspection

- Periodically check all hoses and connections for signs of wear, cracks, or leaks. Replace any damaged components.
- Inspect the power cord for fraying or damage. Ensure electrical connections are secure.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your GPI M-240 Series Fuel Transfer Pump. For problems not listed here, contact GPI customer support.

Problem	Possible Cause	Solution
Pump does not start.	No power; incorrect voltage; faulty wiring; motor overheating.	Check power source and connections. Ensure 24V DC. Verify wiring. Allow pump to cool down if it has exceeded its duty cycle.
Low flow or no flow.	Clogged strainer; kinked hose; air leak in suction line; low fluid level in tank.	Clean strainer. Straighten hose. Check all connections for air leaks. Ensure adequate fuel in the supply tank.
Pump is noisy.	Air in system; worn bearings; foreign object in pump.	Check for air leaks in suction line. If noise persists, contact customer support.
Fuel leaks from connections.	Loose connections; damaged seals/gaskets; cracked hose.	Tighten all connections. Inspect and replace damaged seals, gaskets, or hoses.

8. SPECIFICATIONS

Technical specifications for the GPI M-240 Series Fuel Transfer Pump (Model M-240S-MU).

Feature	Detail
Brand	GPI
Model Number	M-240S-MU
Flow Rate	15 GPM (Gallons Per Minute)
Voltage	24 Volt DC
Duty Cycle	30 minutes ON, 30 minutes OFF
Operating Pressure	15 psi (1.03 bar)
Operating Temperature	-20°F to 125°F (-29°C to 52°C)
Material	Corrosion-Resistant Diecast Aluminum

Feature	Detail
Nozzle Type	Manual Shut-off Nozzle (Unleaded)
Mounting Type	Spin Collar
Inlet Connection Size	1 Inch
Outlet Connection Size	0.75 Inches
Certifications	UL Listed to U.S. and Canadian Standards, CSA
Product Dimensions (L x W x H)	19 x 16 x 9 inches
Item Weight	24.5 Pounds

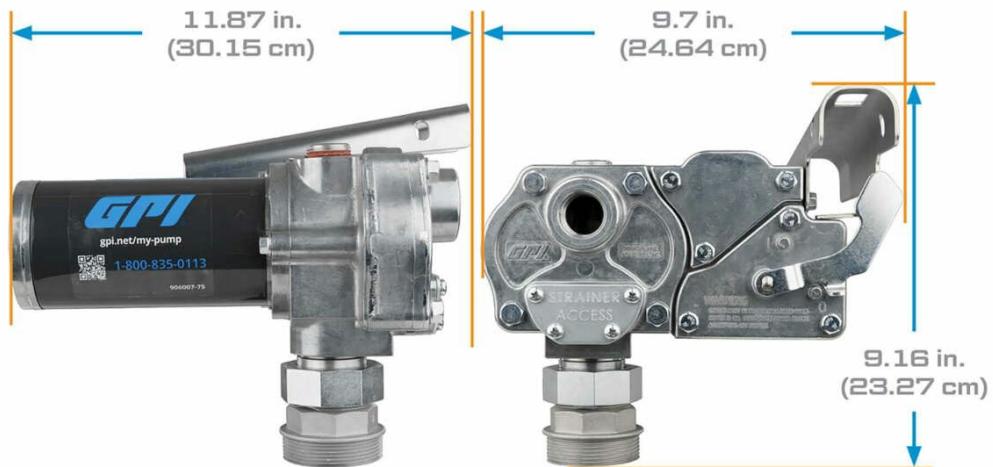


Figure 8.1: Dimensional overview of the GPI M-240 Series Fuel Transfer Pump, showing key measurements.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The GPI M-240 Series Fuel Transfer Pump comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact GPI customer support. You can find more information and contact details on the official GPI website or through the retailer where you purchased the product.

Visit the official GPI Store on Amazon: [GPI Store](#)

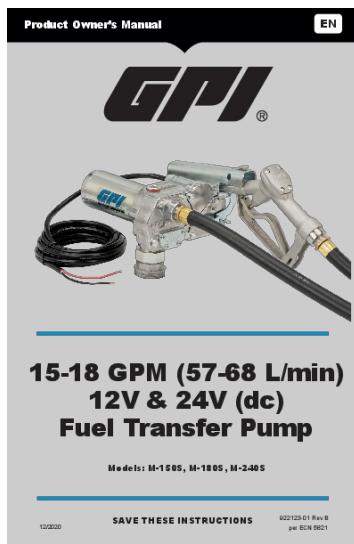
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Related Documents - M-240S-MU

	<p>GPI M-150S, M-180S, M-240S Fuel Pump Owner's Manual and Installation Guide</p> <p>Comprehensive owner's manual for Great Plains Industries (GPI) M-150S, M-180S, and M-240S DC electric gear fuel pumps. Includes detailed instructions for installation, operation, maintenance, troubleshooting, repair, and specifications. Learn how to safely use and maintain your GPI fuel pump for gasoline, diesel, and kerosene transfer.</p>
	<p>MEAN WELL XLG-240 Series: 240W Constant Power LED Driver Datasheet</p> <p>Comprehensive datasheet for the MEAN WELL XLG-240 series of 240W constant power LED drivers. Features include wide input voltage range, IP67 protection, 3-in-1 dimming, and high efficiency for various lighting applications like street, flood, and stage lighting.</p>
	<p>Liquid Controls Positive Displacement Meters and Accessories Product Overview</p> <p>Explore the comprehensive range of Liquid Controls' high-accuracy positive displacement (PD) meters and accessories. This product overview details applications in truck metering, bulk plant operations, industrial processes, and dispensers, highlighting features like minimal wear, sustained accuracy, and low operating costs. Discover system accessories, registration equipment, and selection guides for reliable liquid and gas measurement solutions.</p>
	<p>MEAN WELL XLG-240 Series 240W Constant Power LED Driver</p> <p>Technical specifications, features, and applications for the MEAN WELL XLG-240 series of 240W constant power mode LED drivers. This series offers IP67 protection, wide input range, and 3-in-1 dimming capabilities for various lighting solutions.</p>

	<p>Dee Zee Product Warranty Information and Registration</p> <p>Official warranty details for Dee Zee truck accessories, including limited lifetime and three-year warranty terms, finish protection, and a procedure for submitting claims. Includes a customer survey for product registration and feedback.</p>
	<p>MEAN WELL XLG-240 Series: 240W Constant Power LED Driver Specifications</p> <p>Discover the MEAN WELL XLG-240 series, a 240W Constant Power Mode LED Driver engineered for reliability and efficiency. Featuring a wide 100-305V AC input, IP67 outdoor rating, 3-in-1 dimming, and high efficiency up to 93%, this driver is ideal for street lighting, floodlights, and other demanding applications.</p>

Documents - GPI – M-240S-MU

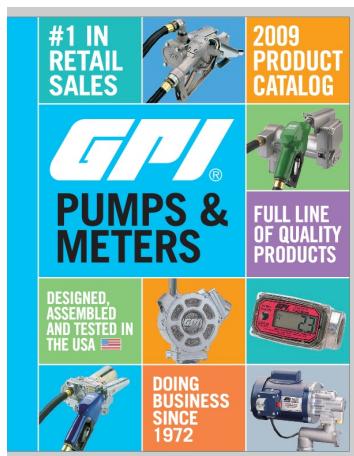


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ELECTRIC PUMPS ep yimg 110000 70 w manual nozzle 91 CE Approval Explosion proof motor Up to 15 GPM 57 LPM Manual Shutoff 12 ft 3 7m x 4 in Convenient Spin Collar for easy installation Flammable Liquid Dispenser Gasoline alcohol blends E15 diesel fuel biodiesel B20 and kerosene M 150S B100 MU or AU 126 pumpmetercatalog ty cdn yhst 57022260303394

CONTENTS ELECTRIC PUMPS 12-VOLT 24-VOLT 4 ELECTRIC PUMPS Includes Cabinet Models, FM-530 Rem ... the 25 GPM pumps found in this section. PUMP SPECS MODEL M-150S-B100-MU or -AU M-180S-ML or -AU **M-240S-MU** PART NUMBER 110000-126 w/manual nozzle 110000-127 w/auto nozzle 110300-1 w/manual nozzle...

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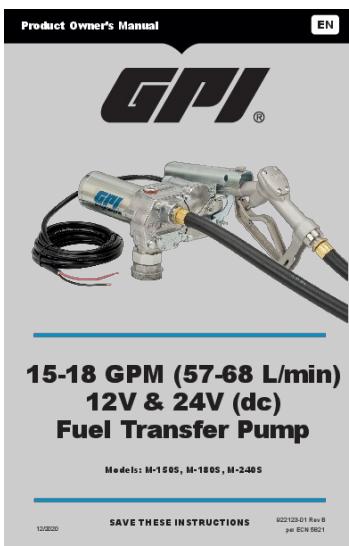


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MADE IN THE U.S.A. At Great Plains Industries, Inc., we manufacture American-made fuel transfer pu ... Year Pump Part No. Model Nozzle Hose Power Cord Mount Suction Nozzle Pipe Holder 110000-70 **M-240S-MU** Manual 12 ft. Installed Spin Collar Included Lockable 110000-71 M-240S-PO None None Inclu...

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At Great Plains Industries, Inc., we manufacture American-made* fuel transfer pumps that are easier ... Year Pump Part No. Model Nozzle Hose Power Cord Mount Suction Nozzle Pipe Holder 110000-70 **M-240S-MU** Manual 12 ft. Installed Spin Collar Included Lockable 110000-71 M-240S-PO None None Inclu...

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FUEL TRANSFER PUMP METER CATALOG 2017 MADE IN THE U.S.A. Great
Plains Industries GPI is a leading manufacturer of fuel transfer pumps. The M-150S-PO is a compact, self-priming pump designed for use with gasoline, diesel, and other light oils. It features a 12-volt DC motor, a 150 GPH flow rate, and a 10' suction lift capability. The pump is lockable and includes a manual standard suction hose. It is designed for easy installation and use. The M-150S-PO is a reliable and efficient fuel transfer pump that is perfect for small-scale fueling operations.