

Groz 44191 Rotary Chemical Pump User Manual

Model: PRP/01

INTRODUCTION

The Groz 44191 Rotary Chemical Pump (Model PRP/01) is a specialized pump designed for transferring various chemicals and liquids that are incompatible with standard cast-iron or steel pumps. Constructed with durable glass-filled polypropylene for the pump body and handle, and Ryton vanes, this pump ensures reliable performance with a wide range of media.

It is supplied with a 3-piece threaded suction tube, making it suitable for use with drums ranging from 15 gallons (50 liters) to 55 gallons (205 liters) in capacity.





Image: The Groz 44191 Rotary Chemical Pump, showcasing its yellow body, black handle, and suction tube assembly.

SAFETY INFORMATION

Always read and understand all instructions before operating the pump. Failure to follow safety guidelines can result in injury or damage to the equipment.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including chemical-resistant gloves, eye protection, and protective clothing, when handling chemicals.
- **Chemical Compatibility:** Ensure the pump materials are compatible with the liquid being transferred. Refer to the "Operating Instructions" section for specific compatibility details for the PRP/01 model. Incompatible chemicals can cause pump damage or dangerous reactions.
- **Ventilation:** Use the pump in a well-ventilated area to avoid inhalation of chemical fumes.
- **Secure Drums:** Ensure the drum from which liquid is being pumped is stable and securely placed to prevent tipping.
- **Spill Prevention:** Have spill containment measures in place before beginning transfer operations.
- **Storage:** Store the pump in a clean, dry place away from direct sunlight and extreme temperatures.

SETUP

Follow these steps to assemble and prepare your Groz 44191 Rotary Chemical Pump for use:

1. **Unpack Components:** Carefully remove all components from the packaging. Verify that all parts are present: pump body, handle, 3-piece threaded suction tube, and discharge spout.
2. **Assemble Suction Tube:** Thread the three sections of the suction tube together firmly. Ensure connections are tight to prevent air leaks during operation.
3. **Attach Suction Tube to Pump:** Securely thread the assembled suction tube into the bottom inlet of the pump body.
4. **Attach Discharge Spout:** Attach the discharge spout to the outlet of the pump body. Ensure it is oriented correctly for dispensing.
5. **Mount on Drum:** Insert the assembled pump and suction tube into the bung opening of the drum. The threaded connection on the pump body should allow it to be securely fastened to the drum's bung. Adjust the suction tube length as needed for the drum size (15 to 55 gallons).



Image: The Groz 44191 Rotary Chemical Pump securely mounted on top of a large chemical drum, ready for operation.

OPERATING INSTRUCTIONS

The Groz 44191 (PRP/01) is a hand-powered rotary pump designed for efficient chemical transfer.

Chemical Compatibility (PRP/01 - Yellow Model):



Plastic Rotary Pumps Variants

| | | | |
|---|--|--|---|
| | | | <p>3/4" Inlet & Outlet threads on the pump also make it suitable for use on IBC's/Totes, connecting with standard fittings</p> |
| RECOMMENDED USE Light Oils, Antifreeze DO NOT USE WITH Acids, Chemicals, Solvents etc. | RECOMMENDED USE Acids, Chemicals, Water based media, antifreeze, detergents, Urea, Adblue, DEF, Benzene, Glycerine etc. DO NOT USE WITH Acetone, Lacquer, Mineral Oils, Solvents, Turpentine etc. | RECOMMENDED USE DEF, Adblue, Urea DO NOT USE WITH Acetone, Lacquer, Mineral Oils, Solvents, Turpentine etc. | RECOMMENDED USE Esters- Ethyl Acetate . Alcohols- Benzyl Alcohol, Butyl Alcohol, Methyl Alcohol Acetone, MEK Bases- Ammonium Hydroxide, Potassium Hydroxide, Sodium Hydroxide, Baking Soda, detergents etc. Hydrocarbons- Ethylene Glycol, NAPHTHA, Fuel Oils, Phenol Water Based Media Urea, Adblue, DEF DO NOT USE WITH With Benzoic Acid, Gasoline, Lacquer Thinners, Bleach, Benzene, Toluene, Xylene, Turpentine, Jet Fuel etc. |

Image: A chart illustrating different Groz plastic rotary pump variants and their recommended chemical uses, highlighting the yellow PRP/01 model's compatibility.

- Recommended Use:** Acids, Chemicals, Water-based media, Antifreeze, Detergents, Urea, Adblue, DEF, Benzene, Glycerine, etc.
- DO NOT USE WITH:** Acetone, Lacquer, Mineral Oils, Solvents, Turpentine, etc.

Operation Steps:

- Prime the Pump (if necessary):** If the pump is new or has been dry, a small amount of the liquid being transferred can be poured into the discharge spout to help prime the pump.
- Position Receiving Container:** Place the receiving container below the discharge spout. Ensure it is stable and large enough to hold the desired volume of liquid.
- Begin Pumping:** Rotate the pump handle clockwise in a steady motion. Liquid will begin to flow from the discharge spout.
- Flow Rate:** The pump delivers approximately 5 liters (1.3 gallons) per 20 turns of the handle.
- Stop Pumping:** Stop rotating the handle once the desired amount of liquid has been transferred or the drum is empty.

MAINTENANCE

Proper maintenance will extend the life and ensure the efficient operation of your Groz Rotary Chemical Pump.

- **Cleaning After Use:** After each use, especially when transferring corrosive chemicals, flush the pump thoroughly with a compatible cleaning agent or water. Pump the cleaning solution through the pump until it runs clear.
- **Drying:** Allow the pump to air dry completely after cleaning.
- **Inspection:** Periodically inspect the pump body, handle, suction tube, and discharge spout for any signs of wear, cracks, or damage.
- **Storage:** Store the pump in a clean, dry, and protected environment when not in use.

TROUBLESHOOTING

Here are some common issues and their potential solutions:

- **Pump Not Priming / No Flow:**

- Check for air leaks in the suction tube connections. Tighten all threaded joints.
- Ensure the suction tube reaches the liquid level in the drum.
- Pour a small amount of the liquid into the discharge spout to help prime the pump.
- Check if the liquid is too viscous for the pump.

- **Reduced Flow Rate:**

- Check for blockages in the suction tube or discharge spout.
- Ensure the pump is clean and free of residue from previous use.
- Verify that the liquid being pumped is within the recommended viscosity range.

- **Leaking from Pump Body:**

- Inspect the pump body for cracks or damage.
- Ensure all connections are securely tightened.

If problems persist, refer to the support information provided.

SPECIFICATIONS



Plastic Rotary Pumps



A range of special application pumps designed for use with media that cannot be pumped using a regular cast-iron or steel pump

Choice of 4 configurations built using different materials for handling mild to very aggressive media

Pump body & Handle are constructed using Glass Filled Polypropylene

Vanes made out of Ryton

Dual directional operation: Pumps in either direction by a few reverse turns of the handle

*for PRP/02 & PRP/10 only

Complete with 3 pc threaded suction tube for use on 50-205 litres (15-55 gallons) drums

SPECIFICATIONS

| FLOW RATE | UPTO 5 LITRES / 20 TURNS | UPTO 1.3 GALLON / 20 TURNS |
|-----------|-----------------------------|-------------------------------|
|-----------|-----------------------------|-------------------------------|



Image: A graphic detailing the features and specifications of Groz Plastic Rotary Pumps, including flow rate and material composition.

| Attribute | Detail |
|--------------------|--|
| Model Number | PRP/01 |
| Brand | Groz |
| Material | Pump Body & Handle: Glass Filled Polypropylene; Vanes: Ryton |
| Color | Yellow |
| Power Source | Hand Powered |
| Flow Rate | Up to 5 Liters / 20 Turns (approx. 1.3 Gallons / 20 Turns) |
| Drum Compatibility | 15 gallons (50 Liters) to 55 gallons (205 Liters) |
| Package Dimensions | 17.44 x 7.83 x 6.02 inches |
| Item Weight | 5.5 Pounds |

| | |
|-------------------|--------------|
| ASIN | B071LQM753 |
| UPC | 816139014494 |
| Country of Origin | India |

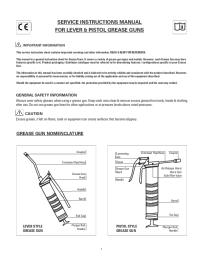
WARRANTY AND SUPPORT

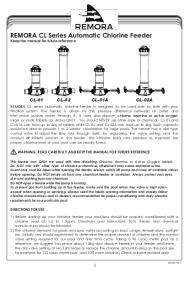
For warranty information or technical support regarding your Groz 44191 Rotary Chemical Pump, please contact Groz customer service or visit their official website. Keep your purchase receipt as proof of purchase. You can find more information and contact details on the official Groz website or through your product retailer.

For general inquiries, you may visit the [Groz Store on Amazon](#).

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Related Documents - PRP/01

| | |
|---|---|
|  | <p>Groz Grease Gun Service Instructions: Loading & Troubleshooting Guide</p> <p>Comprehensive service instructions for Groz lever and pistol style grease guns. This guide covers detailed loading procedures for cartridge, bulk, suction, and filler pump methods, along with essential priming techniques and troubleshooting tips for common grease gun issues.</p> |
|  | <p>GROZ 20V Cordless Grease Gun: High-Torque, Versatile Tool for Maintenance</p> <p>Discover the GROZ 20V Cordless Grease Gun (CGG), engineered for superior performance and versatility. Features include 10,000 PSI max pressure, 2-speed design, 2000 mAh battery, and a comprehensive accessory kit. Ideal for everyday greasing and maintenance tasks.</p> |
|  | <p>HORIBA pH 10.01 Buffer Solution Safety Data Sheet (SDS)</p> <p>Comprehensive Safety Data Sheet (SDS) for HORIBA pH 10.01 buffer solutions (Product Codes: 3999960022, 399996033, 3999960138), detailing product identification, hazards, first aid, handling, storage, and regulatory information for laboratory and industrial use.</p> |



[REMORA CL Series Automatic Chlorine Feeder - Installation and User Manual](#)

Comprehensive user manual and installation guide for the REMORA CL Series Automatic Chlorine Feeder (models CL-01, CL-02, CL-01A, CL-02A). Learn how to install, operate, and maintain your pool's chemical feeder for optimal water treatment.



[SI Analytics Vakiopuskuriuokset \(pH 4.01, 6.87, 9.18\) - Käyttöturvallisuustiedote](#)

Käyttöturvallisuustiedote SI Analyticsin L 4798 -sarjan vakiopuskuriliuokksille (pH 4.01, pH 6.87, pH 9.18). Sisältää tietoa aineen tunnistamisesta, vaaroista, käsittelystä, varastoinnista ja turvallisuustoimenpiteistä.