

## Riello 3007771

# Riello Oil Pump User Manual

Model: **3007771** | Brand: **Riello**

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Riello Oil Pump, model 3007771. This pump is designed for use with various Riello Gulliver BLU and RG series oil burners, including BGK0.1, RG02R, RG0.3, RG0R, RG1RK, RG2, RG3, BGK1, BGK2, and BGK3. Please read these instructions thoroughly before proceeding with any installation or operation.

**Important Safety Notice: Installation and maintenance should only be performed by qualified and authorized personnel in accordance with local regulations and safety standards.**

## 2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent injury and damage to the equipment:

- Ensure the power supply to the burner is disconnected before any installation, maintenance, or repair work.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Handle fuel oil with care, as it is flammable. Avoid spills and ensure proper ventilation.
- Do not operate the pump if it is damaged or leaking.
- Ensure all connections are secure and leak-free before starting the system.
- Keep children and unauthorized personnel away from the equipment.

## 3. SETUP AND INSTALLATION

The Riello oil pump is a critical component of the oil burner system. Proper installation is essential for reliable operation.

### 3.1 Unpacking and Inspection

Carefully remove the oil pump from its packaging. Inspect the pump for any signs of damage that may have occurred during transit. Do not install a damaged pump.

### **3.2 Mounting the Pump**

Mount the pump securely to the burner motor flange using the appropriate screws. Ensure the pump shaft aligns correctly with the motor shaft. Refer to your specific burner manual for detailed mounting instructions.

### **3.3 Fuel Line Connections**

Connect the fuel supply and return lines to the designated ports on the oil pump. Ensure all connections are tight and sealed to prevent leaks. Use appropriate fittings and sealing compounds as recommended by the burner manufacturer.



*Figure 1: Riello Oil Pump Model 3007771. This image shows the overall structure of the oil pump, including the shaft, mounting points, and connection ports. The pressure adjustment screw is visible on the front face, marked with 'R.B.L.' and directional arrows.*

### **3.4 Electrical Connections**

The oil pump itself does not typically have direct electrical connections; it is driven by the burner motor. Ensure the burner motor is correctly wired according to the burner's electrical diagram.

## **4. OPERATING INSTRUCTIONS**

Once installed, the oil pump operates in conjunction with the burner. The primary operational aspect of the pump is setting the correct fuel pressure.

## 4.1 Initial Startup and Bleeding

After installation, the system may contain air. During the initial startup of the burner, the pump will automatically bleed air from the system. It may take several attempts for the burner to ignite consistently as air is purged. Ensure there is sufficient fuel in the tank.

## 4.2 Pressure Adjustment

The oil pump features an adjustable pressure regulator. The factory setting is typically suitable for most applications, but fine-tuning may be required based on burner specifications and fuel type.

- Locate the pressure adjustment screw on the front face of the pump (refer to Figure 1, marked 'R.B.L.' with arrows).
- Using a suitable tool, turn the screw clockwise to increase pressure and counter-clockwise to decrease pressure.
- Monitor the pressure using a pressure gauge connected to the appropriate port on the pump or burner.
- Adjust the pressure gradually until it matches the specifications provided in your burner manual.

## 5. MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your Riello oil pump.

### 5.1 Routine Checks

- Periodically inspect the pump and fuel lines for any signs of leaks, corrosion, or damage.
- Check the fuel pressure regularly to ensure it remains within the specified range.
- Listen for unusual noises from the pump, which could indicate a problem.

### 5.2 Filter Replacement

The oil pump typically incorporates an internal filter, and the burner system will also have an external fuel filter. Regularly replace or clean these filters according to the burner manufacturer's recommendations to prevent clogging and ensure clean fuel supply to the pump.

### 5.3 Cleaning

Keep the exterior of the pump clean and free from dust and debris. Do not use harsh chemicals that could damage the pump's materials.

## 6. TROUBLESHOOTING

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This section outlines common issues and potential solutions for the Riello oil pump.

Problem	Possible Cause	Solution
No oil flow	No fuel in tank, clogged filter, air in system, faulty pump motor	Check fuel level, replace/clean filters, bleed air, check motor operation
Incorrect pressure	Pressure regulator misadjusted, faulty pressure gauge, worn pump components	Adjust pressure regulator, verify gauge accuracy, inspect pump internals (professional service)

Problem	Possible Cause	Solution
Oil leaks	Loose connections, damaged seals/gaskets, cracked casing	Tighten connections, replace seals/gaskets, replace pump if casing is cracked
Unusual noise	Air in system, worn bearings, foreign object	Bleed air, professional inspection for worn parts or obstructions

If troubleshooting steps do not resolve the issue, contact a qualified service technician.

## 7. SPECIFICATIONS

Key technical specifications for the Riello Oil Pump Model 3007771:

Feature	Detail
Manufacturer	Riello
Part Number	3007771
Manufacturer Reference	3007771
Product Discontinued	No
Batteries Included	No
Batteries Required	No
First Available Date	12 November 2020

## 8. WARRANTY INFORMATION

Riello products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact Riello customer support. Keep your proof of purchase for warranty claims.

## 9. SUPPORT AND CONTACT

For technical assistance, spare parts, or service inquiries, please contact your authorized Riello dealer or a qualified HVAC technician. You can also visit the official Riello website for further information and support resources.