

## Pousutong 126G P193-126G 3005719

# Pousutong Riello Pump Strainer Screen 126G P193-126G 3005719 Instruction Manual

Model: 126G P193-126G 3005719

## 1. INTRODUCTION

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This manual provides essential instructions for the proper installation, operation, and maintenance of the Pousutong Riello Pump Strainer Screen, part numbers 126G, P193-126G, and 3005719. This component is designed as a replacement part for specific Riello burners equipped with factory pumps, particularly those in the Mectron series (M3, M5, M10, M15, M20) fuel oil pumps. Adherence to these instructions ensures optimal performance and longevity of the strainer screen.

## 2. PRODUCT OVERVIEW

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The Pousutong Riello Pump Strainer Screen is a critical component for filtering fuel oil before it enters the pump, protecting the system from debris and contaminants. The package includes the strainer screen, one gasket, and one 'O' ring. Only one of these sealing components (either the gasket or the 'O' ring) should be used during installation, based on the specific requirements of your pump.



**Figure 1:** Components of the Pousutong Riello Pump Strainer Screen kit. This image displays the circular strainer screen, a square-shaped gasket with four bolt holes, and a circular O-ring, all designed for fuel pump filtration and sealing.

## 2.1 Compatibility

- Specifically designed for RIELLO burners with factory-installed pumps.
- Compatible with Mectron series fuel oil pumps: M3, M5, M10, M15, M20.
- Replaces original part number: 3005719.

## 3. SETUP AND INSTALLATION

Installation of the strainer screen requires careful attention to ensure a proper seal and effective filtration. It is recommended that this procedure be performed by a qualified technician.

1. **Safety First:** Before beginning any work, ensure the burner system is powered off and the fuel supply is shut off to prevent accidental operation or fuel spills.
2. **Access the Pump:** Locate and access the fuel oil pump on your Riello burner. Refer to your burner's specific service manual for instructions on how to safely open the pump housing to access the strainer.
3. **Remove Old Strainer:** Carefully remove the existing strainer screen and its associated gasket or O-ring.

Dispose of old components responsibly.

4. **Clean the Housing:** Thoroughly clean the strainer housing area to remove any residual fuel, dirt, or debris. Ensure the sealing surfaces are clean and smooth.
5. **Select Sealing Component:** The kit includes both a gasket and an 'O' ring. **Use only ONE** of these for sealing. Determine which type of seal was originally used or is appropriate for your pump model.
  - If using the cork gasket, ensure it is flat and not distorted before installation.
6. **Install New Strainer:** Place the new Pousutong strainer screen into its designated position within the pump housing. Ensure it sits correctly and is not obstructed.
7. **Install Seal:** Position the chosen gasket or 'O' ring correctly around the strainer or on the mating surface, as per your pump's design.
8. **Reassemble Pump:** Carefully reassemble the pump housing, ensuring all fasteners are tightened to the manufacturer's specifications. Avoid over-tightening, which can damage seals.
9. **Restore Power and Fuel:** Once reassembly is complete, restore the fuel supply and power to the burner system.
10. **Check for Leaks:** After starting the burner, carefully inspect the pump area for any signs of fuel leaks. Address any leaks immediately.

## 4. OPERATING INSTRUCTIONS

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The strainer screen operates passively within the fuel oil pump system. Its primary function is to filter impurities from the fuel before it reaches critical pump components and the burner nozzle. No direct user interaction is required for its operation once correctly installed. The system's normal operation will draw fuel through the strainer, which will capture particulate matter.

## 5. MAINTENANCE

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Regular maintenance of the fuel oil system, including the strainer screen, is crucial for efficient and reliable burner operation.

- **Periodic Inspection:** It is recommended to inspect the strainer screen periodically, typically during annual burner servicing or if fuel flow issues are suspected. The frequency may vary depending on fuel quality and usage.
- **Cleaning vs. Replacement:** Depending on the level of contamination, the strainer screen may be cleaned or replaced. If the screen is heavily clogged, damaged, or shows signs of wear, replacement with a new Pousutong Riello Pump Strainer Screen (part number 3005719) is recommended. For minor debris, careful cleaning may be possible, but ensure the screen mesh remains intact and undamaged.
- **Seal Replacement:** Always replace the gasket or O-ring whenever the strainer screen is accessed or replaced to ensure a leak-free seal.

## 6. TROUBLESHOOTING

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Issues related to the strainer screen typically manifest as fuel delivery problems.

Symptom	Possible Cause	Action
Reduced fuel flow or burner lockout	Clogged strainer screen	Inspect and clean or replace the strainer screen.

Symptom	Possible Cause	Action
Fuel leaks around pump housing	Improperly installed gasket/O-ring or damaged seal	Re-install the seal correctly, ensuring only one is used. Replace if damaged.
Persistent debris in fuel system after replacement	Damaged or improperly manufactured screen mesh	Inspect the new strainer screen for manufacturing defects (e.g., incomplete mesh melting into plastic frame). Replace if defective.

If troubleshooting steps do not resolve the issue, consult a qualified HVAC technician.

## 7. SPECIFICATIONS

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- **Product Type:** Pump Strainer Screen Kit
- **Includes:** Strainer screen, 1 gasket, 1 'O' ring
- **Replacement Part Numbers:** 126G, P193-126G, 3005719
- **Material:** Other (as per manufacturer specification)
- **Compatibility:** Riello burners with factory pumps, Mectron series fuel oil pumps (M3, M5, M10, M15, M20)
- **Manufacturer:** HVAC Parts (as listed in product specifications, though brand is Pousutong)
- **ASIN:** B07MN41CBY

## 8. WARRANTY AND SUPPORT

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For specific warranty information regarding the Pousutong Riello Pump Strainer Screen, please refer to the documentation provided at the time of purchase or contact the seller directly. For technical support or further assistance, it is recommended to consult a certified HVAC professional or contact the product manufacturer/seller.