

## Riello 3008504

# Riello 3008504 Gas Head Nozzles Instruction Manual

For BS4, BS4D, BS4/M, RS5, RS5D Burner Models

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of Riello 3008504 gas head nozzles. These nozzles are critical components for ensuring efficient and safe operation of compatible Riello burner models. Please read this manual thoroughly before attempting any installation or maintenance procedures.

## 2. PRODUCT OVERVIEW

The Riello 3008504 gas head nozzles are designed as replacement parts for specific Riello burner models. They play a vital role in the combustion process by accurately delivering gas to the burner head, ensuring optimal flame formation and energy efficiency.

- **Model Number:** 3008504
- **Compatible Burner Models:** BS4-911T1, BS4D-918T1, BS4/M-918M, RS5-920T1, RS5D-922T1
- **Quantity Required for Full Replacement:** 8 pieces



This image displays a single Riello 3008504 gas head nozzle. It features a cylindrical body with a smooth, metallic finish and a threaded base for secure installation. The top opening is visible, indicating the gas flow path.

### **3. SAFETY INFORMATION**

Working with gas appliances and components carries inherent risks. Always prioritize safety. Failure to follow these safety guidelines can result in property damage, serious injury, or death.

- **Professional Installation:** Installation and replacement of gas components should only be performed by qualified and certified technicians.
- **Gas Supply:** Ensure the main gas supply to the appliance is turned off and secured before beginning any work.
- **Ventilation:** Work in a well-ventilated area.
- **Leak Detection:** After any work involving gas connections, always check for gas leaks using appropriate methods (e.g., soap solution).
- **Original Parts:** Use only genuine Riello replacement parts to ensure compatibility and safety.

## 4. SETUP AND INSTALLATION

These nozzles are replacement parts for existing Riello burners. The installation process requires specialized knowledge and tools. It is strongly recommended that a qualified heating technician performs this procedure.

### General Steps (for qualified personnel only):

1. **Disconnect Power and Gas:** Turn off the electrical power and the main gas supply to the burner unit.
2. **Access Burner Head:** Carefully open the burner housing to access the gas head assembly. Refer to the specific burner model's service manual for detailed instructions.
3. **Remove Old Nozzles:** Unscrew and remove the worn or damaged gas head nozzles. Note their orientation and position.
4. **Install New Nozzles:** Carefully screw in the new Riello 3008504 nozzles. Ensure they are seated correctly and tightened to the manufacturer's specifications. Do not overtighten.
5. **Reassemble and Test:** Reassemble the burner housing. Restore gas and electrical supply. Perform a thorough leak test on all gas connections.
6. **Combustion Analysis:** After installation, a qualified technician must perform a combustion analysis to ensure the burner is operating efficiently and safely with the new nozzles. Adjustments to air/fuel mixture may be necessary.

**Note:** A complete replacement requires 8 nozzles for the specified burner models.

## 5. OPERATING CONSIDERATIONS

Once the Riello 3008504 gas head nozzles are correctly installed and the burner has been professionally commissioned, their operation is integrated into the overall burner system. No direct user operation of the nozzles is required.

- **Burner Manual:** Always refer to the specific Riello burner model's operating manual for instructions on starting, stopping, and general use of the heating appliance.
- **Observe Flame:** Periodically observe the burner flame (if safely accessible and visible) for proper color and stability, which indicates correct combustion.

## 6. MAINTENANCE

Regular maintenance is crucial for the longevity and efficient performance of your heating system and its components, including the gas head nozzles.

- **Annual Inspection:** Have your burner and its components, including the gas head nozzles, inspected annually by a qualified technician.
- **Cleaning:** During annual servicing, technicians may clean the nozzles to remove any carbon buildup or debris that could impede gas flow. Do not attempt to clean nozzles yourself without proper training, as damage can occur.
- **Replacement:** Nozzles are wear-and-tear components. Their lifespan depends on usage and fuel quality. Your technician will advise on the appropriate replacement interval, typically every few years, or if signs of wear or poor combustion are observed.

## 7. TROUBLESHOOTING

Issues related to gas head nozzles typically manifest as problems with burner operation. If you experience any of the following, contact a qualified heating technician immediately.

- **Poor Combustion:** Indicated by unusual flame color (e.g., yellow or orange instead of blue), excessive soot, or incomplete burning.
- **Reduced Efficiency:** The heating system takes longer to reach desired temperatures or consumes more fuel than usual.
- **Burner Lockout:** The burner repeatedly fails to ignite or shuts down unexpectedly.
- **Unusual Noises:** Hissing, whistling, or other abnormal sounds coming from the burner area.

**Do not attempt to diagnose or repair gas system issues yourself.** Always contact a certified professional.

## 8. SPECIFICATIONS

<b>Manufacturer</b>	Riello
<b>Part Number</b>	3008504
<b>Compatible Burner Models</b>	BS4-911T1, BS4D-918T1, BS4/M-918M, RS5-920T1, RS5D-922T1
<b>Quantity for Full Replacement</b>	8 pieces
<b>ASIN</b>	B07GVK41SJ
<b>First Available on Amazon.it</b>	17 September 2019

## 9. WARRANTY AND SUPPORT

For information regarding the warranty of your Riello 3008504 gas head nozzles, please refer to the documentation provided with your original burner unit or contact Riello customer support directly. For technical assistance, installation, or service, always contact a qualified and certified heating technician.

You can find contact information for Riello on their official website or through your local distributor.

