

Robertshaw 7000BMVR

Robertshaw 7000BMVR 359811404A Millivolt Gas Valve Instruction Manual

Model: 7000BMVR | Part Number: 359811404A

1. PRODUCT OVERVIEW

This manual provides instructions for the installation, operation, and maintenance of the Robertshaw 7000BMVR 359811404A Millivolt Gas Valve. This valve is designed for use in natural gas systems, featuring a 1/2-inch connection and a 4.0 inches Water Column (W.C.) pressure rating. It is a critical component in various gas-fired appliances, ensuring safe and controlled gas flow.

The Robertshaw 7000BMVR is a millivolt system gas valve, meaning it operates using a small electrical current generated by a thermopile or thermocouple, typically found in standing pilot applications. Proper installation and adherence to safety guidelines are essential for reliable and safe operation.

2. SAFETY INFORMATION

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Installation and service must be performed by a qualified installer, service agency, or gas supplier.
- Always turn off the main gas supply and electrical power to the appliance before servicing.
- Check for gas leaks using a soap solution after any gas connection is made. Never use an open flame.
- Ensure adequate ventilation during installation and operation.
- Do not attempt to repair or modify the gas valve. Replace it with an approved Robertshaw part if damaged or malfunctioning.
- Follow all local codes and regulations for gas appliance installation.

3. PACKAGE CONTENTS

The package typically includes the following components:



Image 1: Robertshaw 7000BMVR Millivolt Gas Valve. The image displays the main gas valve unit, constructed from metal, with various ports and control mechanisms visible. Below the main unit, several accessories are shown: a threaded metal adapter, two black rubber or plastic seals, and a small metal bracket with a screw.

- Robertshaw 7000BMVR Millivolt Gas Valve (Model 359811404A)
- Assorted fittings and adapters (e.g., threaded pipe adapter, seals, mounting bracket)

4. SPECIFICATIONS

Specification	Value
Brand	Robertshaw
Model Number	7000BMVR
Part Number	359811404A
Inlet Connection Type	National Pipe Tapered (NPT)
Number of Ports	2

Specification	Value
Gas Type	Natural Gas (Nat)
Pressure Rating	4.0" W.C. (Water Column)
System Type	Millivolt System
Specification Met	ASME B16.5
Package Dimensions	5.83 x 5.39 x 5.35 inches
Item Weight	2.51 pounds

5. SETUP AND INSTALLATION

IMPORTANT: Installation must be performed by a qualified service technician in accordance with all applicable codes and regulations.

- 1. Turn Off Gas and Power:** Before beginning any work, ensure the main gas supply to the appliance is shut off and all electrical power is disconnected.
- 2. Ventilation:** Ensure the work area is well-ventilated.
- 3. Remove Old Valve (if applicable):** Carefully disconnect and remove the existing gas valve, noting the orientation and connections.
- 4. Prepare Connections:** Apply appropriate pipe thread sealant (suitable for natural gas) to all male pipe threads. Do not use Teflon tape on the first two threads to prevent it from entering the valve.
- 5. Install New Valve:** Install the Robertshaw 7000BMVR gas valve in the same orientation as the original, ensuring the gas flow arrow on the valve body points in the correct direction. Tighten all connections securely.
- 6. Connect Millivolt Wiring:** Connect the millivolt wiring from the thermopile/thermocouple and the thermostat to the appropriate terminals on the gas valve. Refer to the appliance wiring diagram for correct connections.
- 7. Check for Leaks:** Slowly turn on the main gas supply. Apply a soap and water solution to all gas connections. Bubbles indicate a leak. If a leak is detected, shut off the gas, tighten the connection, and re-test. Repeat until no leaks are present.
- 8. Restore Power:** Once all connections are secure and leak-free, restore electrical power to the appliance.

6. OPERATING INSTRUCTIONS

The operation of the Robertshaw 7000BMVR millivolt gas valve is typically integrated with the appliance's control system. Follow the specific lighting and operating instructions provided by the appliance manufacturer.

- **Pilot Lighting:** Most millivolt systems require manual pilot lighting. Follow the appliance manufacturer's instructions for lighting the pilot. This usually involves turning the gas control knob to 'PILOT', pressing it in, and igniting the pilot flame. Hold the knob until the thermopile generates enough voltage to hold the pilot valve open.
- **Main Burner Operation:** Once the pilot is established, turn the gas control knob to the 'ON' position. When the thermostat calls for heat, the millivolt circuit will energize the main gas valve, allowing gas to flow to the main burners.
- **Shut Down:** To shut down the appliance, turn the gas control knob to the 'OFF' position. This will close

both the pilot and main gas valves.

7. MAINTENANCE

The Robertshaw 7000BMVR gas valve is designed for reliable operation with minimal maintenance. However, periodic checks of the overall gas system are recommended.

- **Annual Inspection:** Have the entire gas appliance and its components, including the gas valve, inspected annually by a qualified service technician.
- **Pilot Flame Check:** Periodically observe the pilot flame. It should be steady, blue, and engulf the thermopile/thermocouple tip. A weak or yellow pilot flame may indicate a need for cleaning or adjustment of the pilot assembly.
- **Leak Checks:** Re-check gas connections for leaks if the valve has been disturbed or if a gas odor is detected.
- **Cleaning:** Keep the area around the gas valve clean and free from dust and debris. Do not use harsh chemicals or abrasive cleaners on the valve.

8. TROUBLESHOOTING

If the appliance fails to operate correctly, consider the following common issues. For complex problems, contact a qualified service technician.

- **Pilot Will Not Light or Stay Lit:**
 - Ensure main gas supply is on.
 - Check for proper pilot flame adjustment and ensure it is heating the thermopile/thermocouple adequately.
 - Inspect the thermopile/thermocouple for damage or corrosion.
 - Verify millivolt wiring connections are secure.
- **Main Burners Do Not Ignite:**
 - Confirm the pilot is lit and stable.
 - Check the thermostat setting and ensure it is calling for heat.
 - Verify all electrical connections to the gas valve are secure.
 - Ensure the gas control knob is in the 'ON' position.
- **Gas Odor Detected:**
 - Immediately shut off the main gas supply.
 - Open windows and doors for ventilation.
 - Do not operate any electrical switches or appliances.
 - Contact your gas supplier or a qualified service technician immediately.

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Robertshaw 7000BMVR gas valve, please refer to the documentation provided with your purchase or contact Robertshaw directly. Robertshaw products are manufactured to high standards, and support is available for technical inquiries.

For further assistance or to locate a qualified service technician, please visit the official Robertshaw website or contact their customer support.

