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White-Rodgers 36E38-301

White Rodgers 36E38-301 Gas Valve Instruction Manual

Model: 36E38-301 | Brand: White-Rodgers

INTRODUCTION

This manual provides detailed instructions for the safe installation, operation, and maintenance of the White Rodgers 36E38-301 Gas Valve. This valve is specifically designed for natural gas applications only and operates on a 24 VAC power supply. It features a redundant (pilot) valve design with specified outlet pressures for optimal performance in compatible heating systems.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life. Read these instructions thoroughly before installing or servicing this equipment.

- Installation and service must be performed by a qualified installer, service agency, or gas supplier.
- Disconnect the electrical power supply before making any wiring connections to prevent electrical shock or equipment damage.
- Ensure all gas connections are tight and leak-free before operating the valve. Use a non-corrosive leak detection solution.
- Do not use this valve with any gas type other than natural gas.
- Always follow local codes and regulations governing gas appliance installation and safety.

PRODUCT FEATURES

- **Model:** 36E38-301
- **Gas Type:** Natural Gas Only
- **Voltage:** 24 VAC
- **Valve Type:** Redundant (Pilot) Valve
- **Inlet Connection:** 1/2 inch
- **Outlet Connection:** 3/4 inch
- **Step Outlet Pressure:** 1.2 inches W.C.

- **Full Outlet Pressure:** 3.5 inches W.C.
- **Exterior Finish:** Stainless Steel
- **Number of Ports:** 2
- **Compliance:** ANSI Z21.24



Image: White Rodgers 36E38-301 Gas Valve. This image displays the compact design of the gas valve, showing its various ports and solenoid components. The main body is metallic, with blue and black plastic components for control, indicating its robust construction.

SETUP AND INSTALLATION

Note: Installation should only be performed by a qualified technician.

1. Pre-Installation Check:

- Verify that the gas valve model (36E38-301) matches the system requirements for natural gas and 24 VAC.
- Ensure the gas supply is turned off at the main valve.
- Disconnect electrical power to the appliance.

2. Mounting:

- Mount the valve securely in the correct orientation as specified by the appliance manufacturer.
- Ensure adequate clearance for wiring and gas piping.

3. Gas Piping Connections:

- Apply pipe sealant suitable for natural gas to all male pipe threads. Do not apply sealant to the first two threads.
- Connect the gas supply line to the inlet port (1/2").
- Connect the appliance manifold to the outlet port (3/4").
- Tighten all connections firmly but do not overtighten.

4. Electrical Wiring:

- Connect the 24 VAC power supply wires to the appropriate terminals on the valve as per the appliance wiring diagram.
- Ensure all connections are secure and insulated.

5. Leak Test:

- Turn on the main gas supply.
- Apply a non-corrosive leak detection solution to all gas connections.
- Bubbles indicate a leak. Tighten connections or reapply sealant as necessary.
- Never use an open flame to check for gas leaks.

6. Initial Startup:

- Restore electrical power to the appliance.
- Follow the appliance manufacturer's instructions for initial startup and pilot lighting procedures.

No relevant official product videos for installation from a 'Seller' were found in the provided data.

OPERATING INSTRUCTIONS

The White Rodgers 36E38-301 Gas Valve operates in conjunction with your appliance's control system. It is designed to regulate the flow of natural gas to the burner based on demand.

- 1. Normal Operation:** When the appliance's control system calls for heat, it sends a 24 VAC signal to the gas valve.
- 2. Pilot Ignition:** The redundant pilot valve opens first, allowing gas to flow to the pilot burner for ignition.
- 3. Main Burner Ignition:** Once the pilot is established and sensed by the control system, the main valve opens, allowing gas to flow to the main burner for heating.
- 4. Shutdown:** When the heat demand is satisfied, the 24 VAC signal is removed, and the gas valve closes, shutting off the gas supply to both the pilot and main burners.

Important: Do not attempt to manually operate the valve unless specifically instructed by a qualified technician during troubleshooting or service procedures.

No relevant official product videos for operation from a 'Seller' were found in the provided data.

MAINTENANCE GUIDELINES

The White Rodgers 36E38-301 Gas Valve is designed for reliable operation with minimal maintenance. However, periodic checks are recommended to ensure continued safe and efficient performance.

- Annual Inspection:** Have a qualified technician inspect the gas valve and all gas connections annually for signs of wear, corrosion, or leaks.
- Cleaning:** Keep the area around the gas valve clean and free from dust, debris, and obstructions. Do not use harsh chemicals or abrasive cleaners on the valve body.
- Leak Checks:** Periodically perform a leak check on all gas connections using a non-corrosive leak detection solution.
- Pilot Flame Inspection:** If applicable to your appliance, ensure the pilot flame is stable, blue, and properly impinging on the thermocouple/thermopile. Refer to your appliance manual for specific pilot adjustment procedures.

Caution: Do not attempt to disassemble or repair the gas valve. If the valve is found to be faulty, it must be replaced by a qualified technician.

No relevant official product videos for maintenance from a 'Seller' were found in the provided data.

TROUBLESHOOTING COMMON ISSUES

This section provides guidance for common issues. For complex problems or if you are unsure, always

contact a qualified service technician.

Problem	Possible Cause	Solution
No gas flow to burner	Gas supply off; Electrical power off; Faulty thermostat/control; Faulty gas valve	Check main gas supply; Check electrical breaker/fuse; Verify thermostat setting; Contact technician for valve inspection or replacement.
Pilot light won't stay lit	Dirty pilot orifice; Faulty thermocouple/thermopile; Low gas pressure	Clean pilot orifice; Replace thermocouple/thermopile; Contact gas supplier or technician for pressure check.
Gas odor detected	Gas leak	Immediately turn off gas supply and ventilate area. Do not operate electrical switches or create sparks. Contact your gas company and a qualified technician immediately.

PRODUCT SPECIFICATIONS

- **Model Number:** 36E38-301
- **Brand:** White-Rodgers
- **Manufacturer:** White Rodgers
- **Gas Type:** Natural Gas Only
- **Voltage:** 24 VAC
- **Valve Type:** Redundant (Pilot)
- **Inlet Connection:** 1/2 inch
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- **Full Outlet Pressure:** 3.5 inches W.C.
- **Exterior Finish:** Stainless Steel
- **Number of Ports:** 2
- **Compliance:** ANSI Z21.24
- **First Available Date:** April 27, 2007

Note: Specifications are subject to change without notice.

WARRANTY INFORMATION AND TECHNICAL SUPPORT

Specific warranty details for the White Rodgers 36E38-301 Gas Valve are typically provided with the product packaging or can be obtained directly from the manufacturer or an authorized distributor.

For technical support, service, or warranty claims, please contact White-Rodgers customer service or an authorized service center.

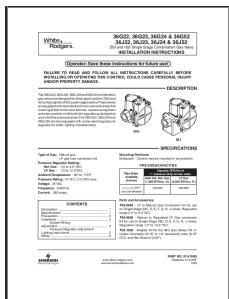
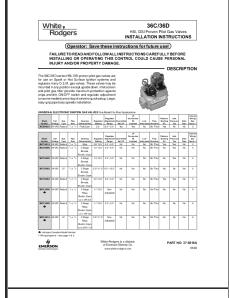
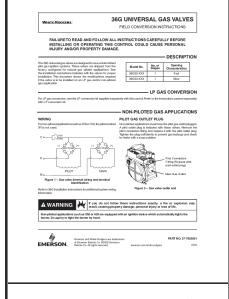
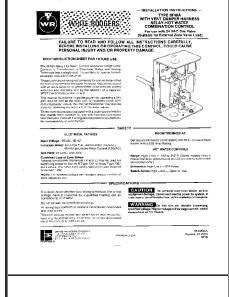
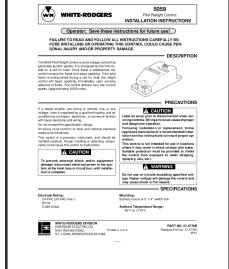
Manufacturer Contact Information:

- **Brand:** White-Rodgers
- **Website:** Emerson - White-Rodgers

Please refer to the product packaging or the manufacturer's website for the most current contact details and support resources.

No relevant official product videos for warranty or support from a 'Seller' were found in the provided data.

Related Documents - 36E38-301

	<p>Installation Instructions for White Rodgers 36G/J Series Combination Gas Valves</p> <p>Comprehensive installation, operation, and safety instructions for White Rodgers 36G22, 36G23, 36G24, 36G52, 36J22, 36J23, 36J24, and 36J52 single-stage combination gas valves used in DSI and HSI systems.</p>
	<p>White-Rodgers 50A22-201 Pilot Relight/Timer Control Installation Instructions</p> <p>Installation instructions for the White-Rodgers 50A22-201 Pilot Relight/Timer Control, detailing its description, specifications, safety precautions, and wiring diagrams for HVAC systems.</p>
	<p>White-Rodgers 36C/36D Series HSI/DSI Proven Pilot Gas Valves Installation Guide</p> <p>Installation instructions, safety precautions, specifications, wiring diagrams, and parts for White-Rodgers 36C/36D series HSI and DSI proven pilot gas valves. Covers universal electronic ignition gas valves for various heating systems.</p>
	<p>White-Rodgers 36G Universal Gas Valves Field Conversion Instructions</p> <p>Field conversion instructions for White-Rodgers 36G universal gas valves, covering LP gas conversion and non-piloted applications. Includes model details, wiring diagrams, and safety warnings.</p>
	<p>White-Rodgers 8F48A Combination Control Installation Instructions</p> <p>Installation and operation guide for the White-Rodgers 8F48A Relay-Hot Water Combination Control, including electrical ratings, safety precautions, wiring diagrams, and troubleshooting tips.</p>
	<p>White-Rodgers 5059 Pilot Relight Control Installation Instructions</p> <p>Detailed installation instructions and safety precautions for the White-Rodgers 5059 Pilot Relight Control, a low voltage ignition spark generator for HVAC systems.</p>