

Aaon R42360

Aaon R42360 Gas Valve Instruction Manual

Model: R42360

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Aaon R42360 Gas Valve. The Aaon R42360 is a genuine OEM replacement part designed to ensure reliable performance in compatible HVAC systems. Please read this manual thoroughly before installation or use to ensure safety and optimal functionality.

IMPORTANT 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.

This gas valve must be installed by a qualified service technician in accordance with all local codes and regulations. Always disconnect power to the appliance before servicing. Ensure gas supply is turned off before any installation or maintenance procedures. Check for gas leaks after installation.

PRODUCT OVERVIEW

The Aaon R42360 Gas Valve is a critical component in gas-fired heating systems, controlling the flow of gas to the burner. It is constructed from durable metal with a stainless steel exterior finish, designed for longevity and reliable operation.

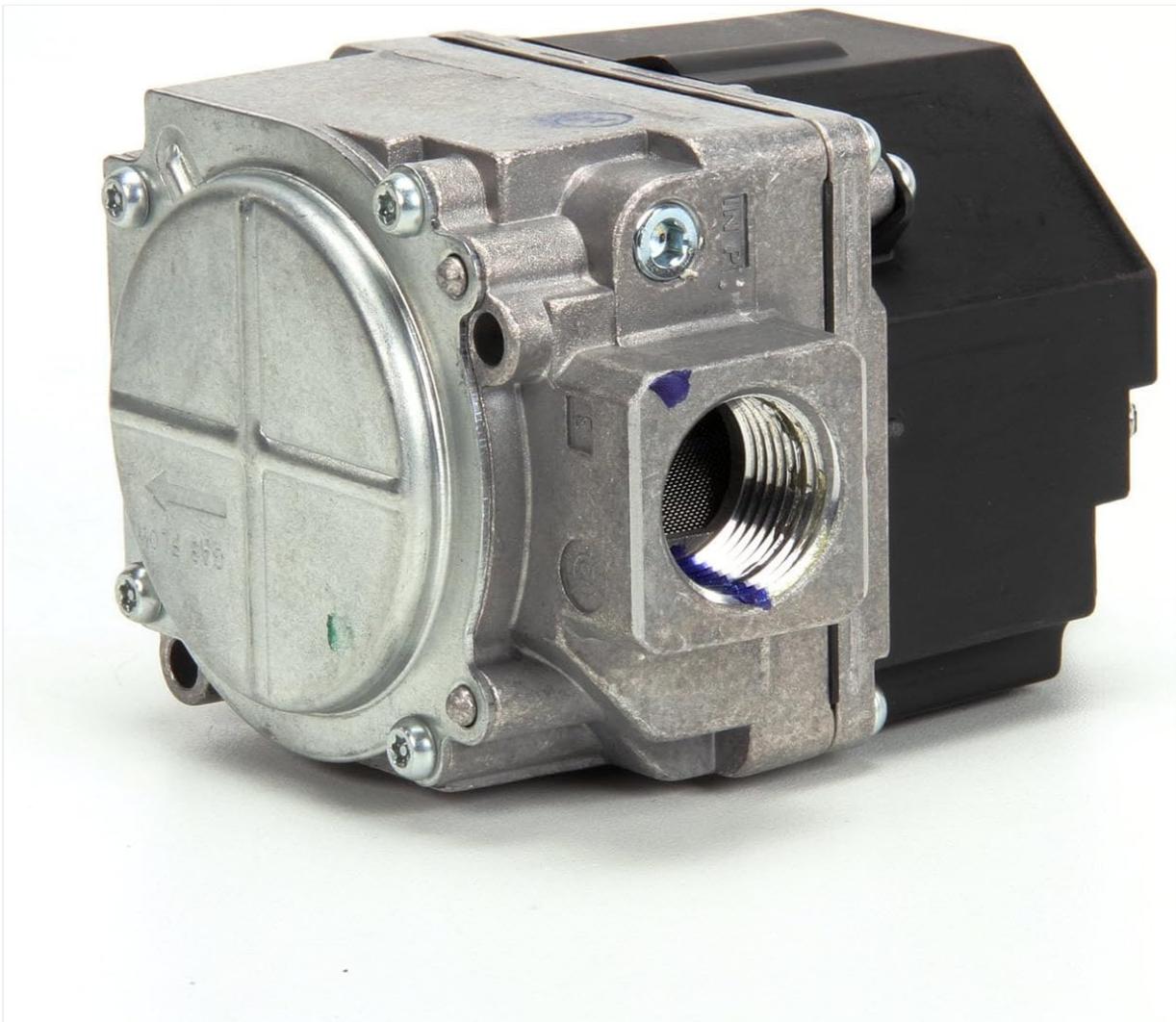


Figure 3: Side view of the Aeon R42360 Gas Valve, indicating the gas flow direction with an arrow and showing additional connection ports.

SPECIFICATIONS

Feature	Detail
Model Number	R42360
Brand	Aeon
Material	Metal
Exterior Finish	Stainless Steel
Item Dimensions (L x W x H)	4 x 4 x 6 inches
Item Weight	1 pound
Inlet Connection Type	Threaded
Outlet Connection Type	NPT
Number of Ports	2

INSTALLATION INSTRUCTIONS

Installation of the Aeon R42360 Gas Valve should only be performed by a qualified and licensed HVAC technician. Incorrect installation can lead to gas leaks, fire, explosion, or carbon monoxide poisoning.

1. **Safety First:** Ensure the main gas supply to the appliance is turned off and the electrical power is disconnected at the circuit breaker before beginning any work.
2. **Ventilation:** Work in a well-ventilated area.
3. **Remove Old Valve:** Carefully disconnect the gas lines and electrical wiring from the existing gas valve. Note the orientation and connections for proper reinstallation.
4. **Prepare New Valve:** Apply appropriate pipe sealant (suitable for gas) to the threaded connections of the new R42360 gas valve.
5. **Install New Valve:** Mount the new valve in the correct orientation, ensuring all connections are secure and properly aligned. Connect the gas lines to the inlet and outlet ports (NPT and Threaded).
6. **Electrical Connections:** Connect the electrical wiring to the valve terminals as per the appliance's wiring diagram. Ensure all connections are tight and insulated.
7. **Leak Test:** After installation, slowly turn on the main gas supply. Use a gas leak detector solution (soapy water) on all gas connections to check for leaks. **Do not use an open flame.** If bubbles appear, tighten the connection or reapply sealant until no leaks are detected.
8. **Restore Power:** Once all connections are secure and leak-free, restore electrical power to the appliance.
9. **Test Operation:** Follow the appliance manufacturer's instructions to test the operation of the gas valve and the heating system.

OPERATING PRINCIPLES

The Aeon R42360 Gas Valve operates under the control of the appliance's heating system. When a call for heat is initiated, the control board sends an electrical signal to the gas valve, which then opens to allow gas to flow to the burner. The valve also incorporates safety features to shut off the gas supply in case of ignition failure or other unsafe conditions. This valve is not user-operable; its function is automated within the HVAC system.

MAINTENANCE

The Aeon R42360 Gas Valve is designed for minimal maintenance. Regular inspection by a qualified technician during routine HVAC system servicing is recommended. During inspection, the technician should:

- Check for any signs of physical damage or corrosion.
- Verify all gas connections are tight and free of leaks.
- Ensure electrical connections are secure.
- Confirm proper operation during the appliance's heating cycle.

Do not attempt to disassemble or repair the gas valve yourself. If a malfunction is suspected, contact a qualified service technician for diagnosis and replacement.

TROUBLESHOOTING

Troubleshooting issues related to a gas valve should always be performed by a qualified technician due to the inherent risks involved with gas appliances. Below are general indicators that may suggest a gas valve

issue:

- **No Heat:** If the furnace or heating appliance is not igniting and other components (thermostat, igniter) are confirmed to be working, the gas valve may not be opening.
- **Intermittent Heating:** The gas valve may be sticking or failing intermittently.
- **Gas Odor:** A persistent gas odor near the appliance indicates a leak. Immediately turn off the gas supply, ventilate the area, and contact emergency services and a qualified technician.
- **Unusual Noises:** Clicking or humming noises from the valve that are not part of normal operation could indicate a malfunction.

If any of these symptoms occur, turn off the appliance and contact a professional HVAC technician for inspection and repair.

SUPPORT

For technical assistance, replacement parts, or service inquiries regarding your Aeon R42360 Gas Valve, please contact your authorized Aeon dealer or a qualified HVAC service provider. Always refer to the specific appliance's service manual for detailed instructions pertaining to your heating system.

For more information about Aeon products, visit the official Aeon website: www.aeon.com