

Hayward FDXLGSV0001

Hayward FDXLGSV0001 FD Natural Gas Valve Instruction Manual

Model: FDXLGSV0001 | Brand: Hayward

Introduction	Safety Information	Product Overview	Installation	Operation	Maintenance
	Troubleshooting	Specifications	Warranty & Support		

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Hayward FDXLGSV0001 FD Natural Gas Valve. This valve is a replacement component specifically designed for Hayward Universal H-Series Low NOx Pool Heaters. Please read these instructions thoroughly before installation or servicing to ensure proper function and safety.

2. 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.

- Installation and servicing must be performed by a qualified installer, service agency, or gas supplier.
- Always disconnect power to the heater before performing any service or maintenance.
- Turn off the gas supply to the heater before servicing the gas valve.
- Ensure all gas connections are properly sealed and tested for leaks after installation.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Keep the area around the heater clear and free from combustible materials.

3. PRODUCT OVERVIEW

The Hayward FDXLGSV0001 is a replacement FD natural gas valve designed for specific Hayward Universal H-Series Low NOx pool heater models. This component is crucial for regulating the flow of natural gas to the heater's burner, ensuring efficient and safe operation.



Figure 1: Hayward FDXLGSV0001 FD Natural Gas Valve. This image shows the complete gas valve assembly, typically made of metal, with various connection points for gas lines and electrical components.

3.1. Compatibility

This FD natural gas valve is compatible with the following Hayward Universal H-Series Low NOx pool heater models:

- H150FDN
- H150FDP
- H200FDN
- H200FDP
- H250FDN
- H250FDP
- H300FDN
- H300FDP
- H350FDN
- H350FDP
- H400FDN
- H400FDP

4. INSTALLATION

IMPORTANT: Installation of this gas valve must be performed by a qualified and licensed professional. Attempting to install this component without proper training and tools can result in gas leaks, fire, explosion, property damage, severe injury, or death.

4.1. Pre-Installation Steps

1. **Verify Compatibility:** Ensure the FDXLGSV0001 valve is the correct replacement part for your specific Hayward Universal H-Series Low NOx pool heater model.
2. **Disconnect Power:** Turn off all electrical power to the pool heater at the circuit breaker.
3. **Shut Off Gas Supply:** Close the main gas shut-off valve to the pool heater.
4. **Ventilate Area:** Ensure the installation area is well-ventilated.

4.2. Removal of Old Gas Valve

1. Carefully disconnect the electrical wiring from the existing gas valve, noting the connections for reassembly.
2. Using appropriate wrenches, loosen and remove the gas piping connections from both the inlet and outlet sides of the old valve. Be prepared for residual gas in the lines.
3. Remove any mounting hardware securing the old gas valve to the heater chassis.
4. Carefully remove the old gas valve from the heater.

4.3. Installation of New Gas Valve

1. Position the new FDXLGSV0001 gas valve in the heater, ensuring it aligns with the mounting points and gas piping.
2. Secure the new valve with the appropriate mounting hardware.
3. Apply approved pipe thread sealant (suitable for natural gas) to the male threads of the gas piping connections.
4. Carefully reattach the gas piping to the inlet and outlet ports of the new valve. Tighten connections securely but do not overtighten.
5. Reconnect the electrical wiring to the new gas valve according to the heater's wiring diagram.

4.4. Post-Installation Checks

1. **Leak Test:** Slowly open the main gas shut-off valve. Apply a non-corrosive leak detection solution (soap and water solution) to all gas connections. Look for bubbles, which indicate a leak. If leaks are found, immediately shut off the gas, tighten connections, and retest. Repeat until no leaks are detected.
2. **Restore Power:** Once all connections are secure and leak-free, restore electrical power to the heater.
3. **Test Operation:** Follow the heater's operating instructions to test the ignition and heating cycle.

5. OPERATION

The Hayward FDXLGSV0001 FD Natural Gas Valve operates as an integral part of your Hayward Universal H-Series Low NOx Pool Heater's gas train. Its function is to control the flow of natural gas to the burner based on signals from the heater's control board.

Once installed, the gas valve's operation is automatic and managed by the pool heater's internal controls. Refer to your specific Hayward Universal H-Series Low NOx Pool Heater owner's manual for detailed

instructions on how to operate your pool heater, including starting, setting temperature, and shutting down.

6. MAINTENANCE

The FDXLGSV0001 gas valve itself typically requires minimal maintenance. However, regular inspection of the entire gas train and heater system is recommended to ensure continued safe and efficient operation.

- **Annual Inspection:** Have a qualified service technician inspect the gas valve and all gas connections annually for signs of wear, corrosion, or leaks.
- **Cleanliness:** Keep the area around the gas valve and heater clean and free from dust, debris, and obstructions.
- **Visual Check:** Periodically check for any visible damage to the valve or gas lines.
- **Gas Leak Detection:** If you smell gas, immediately shut off the gas supply, evacuate the area, and contact your gas supplier and a qualified service technician. Do not operate any electrical switches or phones in the vicinity.

7. TROUBLESHOOTING

If your pool heater is experiencing issues related to gas supply or ignition, the gas valve may be a contributing factor. Always consult a qualified technician for diagnosis and repair of gas-related problems.

Common Gas Valve Related Issues

Problem	Possible Cause	Action
Heater not igniting (IF fault)	No gas supply to burner, faulty gas valve solenoid, electrical issue with valve.	Verify gas supply is open. Check for proper electrical connections to the valve. If problem persists, contact a qualified technician.
Gas smell near heater	Gas leak from connections or faulty valve.	Immediately shut off gas supply, evacuate area, and contact gas company and qualified technician. Do NOT attempt to find the leak yourself.
Heater cycles on and off frequently	Could be related to gas pressure issues or intermittent valve operation.	Consult a qualified service technician to diagnose gas pressure and valve function.

For comprehensive troubleshooting of your entire pool heater system, refer to your Hayward Universal H-Series Low NOx Pool Heater owner's manual.

8. SPECIFICATIONS

Feature	Detail
Model Number	FDXLGSV0001
Brand	Hayward
Material	Metal
Item Dimensions (L x W x H)	11 inches (length)

Feature	Detail
Inlet Connection Size	1.5 Inches
Inlet Connection Type	National Pipe Tapered (NPT)
Outlet Connection Size	1.5 Inches
Outlet Connection Type	NPT
Number of Ports	2
Valve Type	Globe Valve
Weight	2 Pounds (Product weight, not shipping weight)
Certifications	CE, UL

9. WARRANTY & SUPPORT

9.1. Warranty Information

Hayward products are manufactured to the highest standards of quality and workmanship. This replacement part is covered by Hayward's standard limited warranty. For specific warranty terms and conditions, please refer to the warranty documentation included with your original Hayward pool heater or visit the official Hayward website. Keep your proof of purchase for warranty claims.

9.2. Customer Support

If you have questions regarding the installation, operation, or maintenance of your Hayward FDXLGSV0001 FD Natural Gas Valve, or if you require technical assistance, please contact Hayward Customer Service or a qualified pool equipment technician.

Hayward Official Website: www.hayward-pool.com

Professional Assistance: Always consult a certified pool technician for complex repairs or gas-related issues.