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## Pitco 60148101

# Pitco 60148101 Solenoid Valve Instruction Manual

Genuine OEM Replacement Part for Commercial Frying Equipment

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective installation, operation, and maintenance of your Pitco 60148101 Solenoid Valve. This is a genuine OEM replacement part designed to ensure the safety, reliability, and performance of your Pitco commercial frying equipment. Please read these instructions thoroughly before proceeding with installation or use.

## 2. SAFETY INFORMATION

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Always adhere to the following safety guidelines to prevent injury or damage to equipment:

- **Qualified Personnel:** Installation and maintenance should only be performed by qualified and authorized service technicians.
- **Power Disconnection:** Always disconnect power to the equipment before installing, servicing, or cleaning the solenoid valve.
- **Proper Tools:** Use appropriate tools for installation and removal to prevent damage to the valve or surrounding components.
- **Voltage Compatibility:** Ensure the power supply voltage matches the valve's specifications (24Vac).
- **Leak Checks:** After installation, thoroughly check for any gas or fluid leaks before restoring power and operating the equipment.
- **Genuine Parts:** Use of non-OEM parts may compromise safety, reliability, and void equipment warranty.

## 3. PRODUCT OVERVIEW

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The Pitco 60148101 is a 24Vac solenoid valve designed for precise control of fluid or gas flow within Pitco frying systems. It is constructed from stainless steel, ensuring durability and resistance to corrosion in demanding commercial kitchen environments. This 2-port valve features threaded inlet and NPT outlet connection types.



*Image: Pitco 60148101 Solenoid Valve. This image displays the compact design and connection points of the genuine OEM replacement part.*

## 4. SETUP AND INSTALLATION

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Follow these steps for proper installation of the solenoid valve:

1. **Prepare Equipment:** Ensure the frying equipment is completely shut down and disconnected from all power sources. Allow any hot components to cool down.
2. **Locate Old Valve:** Identify the existing solenoid valve that needs replacement.
3. **Disconnect Connections:** Carefully disconnect any electrical wiring and fluid/gas lines from the old

valve. Be prepared for residual fluid or gas.

4. **Remove Old Valve:** Unscrew or unmount the old valve from its position.
5. **Inspect Area:** Clean the mounting area and inspect connecting lines for any damage or debris.
6. **Install New Valve:** Position the new Pitco 60148101 Solenoid Valve. Ensure the flow direction (if indicated) is correct. Securely fasten the valve.
7. **Connect Lines:** Reconnect the fluid/gas lines to the threaded inlet and NPT outlet. Use appropriate thread sealant if necessary, ensuring it is compatible with the fluid/gas.
8. **Connect Wiring:** Reconnect the 24Vac electrical wiring to the solenoid coil terminals. Ensure connections are secure and correctly polarized if applicable.
9. **Leak Test:** Before restoring full power, slowly introduce fluid/gas and carefully check all connections for leaks using an approved leak detection method.
10. **Test Operation:** Once leak-free, restore power and test the valve's operation according to the equipment's service manual.

**Note:** Refer to your specific Pitco equipment service manual for detailed wiring diagrams and system-specific installation procedures.

## 5. OPERATING INSTRUCTIONS

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The Pitco 60148101 Solenoid Valve operates as an automatic control device within your frying equipment. It is designed to open or close a fluid/gas pathway when an electrical signal (24Vac) is applied or removed from its coil. Its operation is typically integrated into the equipment's control system and does not require direct user interaction for its primary function.

- When the control system sends a 24Vac signal to the valve, the solenoid coil energizes, opening the valve to allow flow.
- When the signal is removed, the coil de-energizes, and the valve closes, stopping the flow.
- Ensure the equipment's control system is functioning correctly for proper valve operation.

## 6. MAINTENANCE

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Regular inspection and maintenance can extend the life of your solenoid valve and ensure continued reliable operation:

- **Visual Inspection:** Periodically inspect the valve for signs of wear, corrosion, leaks, or damage to the wiring.
- **Connection Integrity:** Check all electrical and fluid/gas connections to ensure they are tight and secure.
- **Cleaning:** Keep the exterior of the valve clean and free from grease or debris. Do not use harsh chemicals that could damage the valve material or seals.
- **Functionality Check:** During routine equipment maintenance, verify that the valve opens and closes smoothly and completely when activated by the control system.
- **Seal Replacement:** If leaks are detected or if the valve's operation becomes erratic, internal seals may need replacement. This should be done by a qualified technician using genuine Pitco repair kits.

## 7. TROUBLESHOOTING

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Refer to the table below for common issues and potential solutions. Always disconnect power before attempting any troubleshooting or repairs.

Problem	Possible Cause	Solution
Valve does not open/close	No electrical signal (24Vac), faulty wiring, coil failure, debris obstructing valve.	Check control system for signal. Inspect wiring for damage. Test coil continuity. Disassemble and clean valve (by qualified technician).
Valve leaks	Loose connections, damaged seals, cracked valve body.	Tighten connections. Replace seals (by qualified technician). Replace valve if body is cracked.
Valve makes buzzing noise	Low voltage, foreign material in valve, worn plunger.	Verify 24Vac supply. Clean valve internals. Replace valve if plunger is worn.

*If issues persist after attempting these solutions, contact a qualified service technician.*

## 8. SPECIFICATIONS

Specification	Detail
Model Number	60148101
Brand	Pitco
Valve Type	Solenoid Valve
Voltage	24Vac
Material	Stainless Steel
Exterior Finish	Stainless Steel
Number of Ports	2
Inlet Connection Type	Threaded
Outlet Connection Type	NPT
Thread Type	NPT
Item Dimensions (L x W x H)	2.2 x 1.45 x 0.9 inches
Item Weight	0.1 Pounds
Specification Met	ASME, ANSI, UL
UPC	315411387542

## 9. WARRANTY AND SUPPORT

**Warranty:** Using genuine Pitco OEM parts, such as the 60148101 Solenoid Valve, is crucial for maintaining the validity of your equipment's warranty. Non-OEM parts may void existing warranties and compromise the safety and performance of your equipment. Specific warranty terms for the valve itself are typically covered under the overall equipment warranty or Pitco's standard parts warranty. Please refer to your original equipment documentation for detailed warranty information.

**Technical Support:** For technical assistance, service, or to order additional genuine Pitco replacement parts, please contact your authorized Pitco service provider or refer to the contact information provided in your main equipment manual. Always provide the model number (60148101) and the serial number of your Pitco equipment when seeking support.