

Firestone 9016

Firestone 9016 90-120 psi Pressure Switch User Manual

Model: 9016

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1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Firestone 9016 90-120 psi Pressure Switch. Please read these instructions thoroughly before installation and operation to ensure proper function and to prevent damage or injury. This device is designed to automatically control pressure within a specified range.

2. SAFETY INFORMATION

Always observe the following safety precautions:

- **Electrical Hazard:** Ensure all power sources are disconnected before installation or maintenance. Improper wiring can lead to electrical shock or fire.
- **Pressure Hazard:** Always depressurize the system before installing, removing, or servicing the pressure switch. Sudden release of pressure can cause injury.
- **Qualified Personnel:** Installation and maintenance should only be performed by qualified personnel familiar with pneumatic and electrical systems.
- **Operating Limits:** Do not exceed the specified pressure range (90-120 psi) or electrical ratings of the switch.
- **Environmental Conditions:** Protect the switch from extreme temperatures, moisture, and corrosive environments unless specifically rated for such conditions. The International Protection Rating is IP54.

3. PRODUCT OVERVIEW

The Firestone 9016 Pressure Switch is an automatic control device designed to monitor and regulate air

pressure within a system. It activates or deactivates an electrical circuit based on predefined pressure thresholds. This model operates within a 90-120 psi range and features a 1/8 NPT thread for connection.



Figure 3.1: Front view of the Firestone 9016 Pressure Switch, showing the electrical terminals and threaded brass fitting.

Key Features:

- **Pressure Range:** 90-120 psi (pounds per square inch)
- **Thread Type:** 1/8 NPT (National Pipe Taper)
- **Operation Mode:** Automatic
- **Contact Type:** Normally Open or Normally Closed (depending on specific variant)
- **Material:** Stainless Steel contact material, brass fitting
- **Dimensions:** Approximately 4 x 4 x 2 inches

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the pressure switch:

1. **Depressurize System:** Ensure the air system where the switch will be installed is completely depressurized and isolated from any pressure source.
2. **Power Disconnection:** Disconnect all electrical power to the system to prevent accidental activation or electrical shock.
3. **Thread Preparation:** Apply an appropriate thread sealant (e.g., PTFE tape or pipe sealant) to the 1/8 NPT threads of the pressure switch. This helps ensure a leak-free seal.
4. **Mounting:** Carefully thread the pressure switch into the designated port on your air system. Tighten securely by hand, then use a wrench for a final snug fit. Do not overtighten, as this can damage the threads or the switch.
5. **Electrical Connection:** Connect the electrical wires to the terminals on the top of the switch. Refer to your system's wiring diagram for correct polarity and circuit configuration. Ensure connections are secure and insulated.
6. **System Re-pressurization:** Slowly re-pressurize the air system and check for any leaks around the switch's threaded connection.
7. **Power Reconnection:** Reconnect electrical power to the system.



Figure 4.1: Side view of the pressure switch, highlighting the 1/8 NPT threaded connection for system integration.

5. OPERATING INSTRUCTIONS

The Firestone 9016 Pressure Switch operates automatically based on the pressure within your system. It is designed to maintain pressure between 90 psi (cut-in) and 120 psi (cut-out).

- When system pressure drops to approximately 90 psi, the switch will activate its electrical contacts (e.g., turn on an air compressor).
- When system pressure rises to approximately 120 psi, the switch will deactivate its electrical contacts (e.g., turn off the air compressor).
- This cycle repeats automatically to maintain the desired pressure range.

No user intervention is typically required during normal operation once the switch is correctly installed and wired.

6. MAINTENANCE

The Firestone 9016 Pressure Switch is designed for durability and requires minimal maintenance. However, periodic checks can help ensure its longevity and reliable operation:

- **Visual Inspection:** Regularly inspect the switch for any signs of physical damage, corrosion, or loose connections.
- **Leak Checks:** Periodically check the threaded connection for air leaks using a soapy water solution. Bubbles indicate a leak.
- **Electrical Connections:** Ensure electrical terminals remain clean and securely fastened.
- **Environmental Protection:** Verify that the switch remains protected from excessive moisture, dust, and debris, consistent with its IP54 rating.

If any issues are detected, refer to the Troubleshooting section or contact customer support.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your pressure switch.

Problem	Possible Cause	Solution
Switch does not activate/deactivate.	No power, incorrect wiring, faulty switch, pressure outside range.	Check power supply. Verify wiring against diagram. Test switch continuity (with power off). Ensure system pressure reaches activation/deactivation points.
Air leak at switch connection.	Insufficient thread sealant, loose connection, damaged threads.	Depressurize system. Remove switch, reapply thread sealant, and re-install, ensuring proper tightening. Inspect threads for damage.
Inconsistent pressure control.	System leaks, faulty switch, incorrect pressure gauge reading.	Check entire system for leaks. Verify pressure with a calibrated gauge. If issues persist, the switch may need replacement.

If you are unable to resolve an issue, contact customer support for further assistance.

8. SPECIFICATIONS

Feature	Detail
Model Number	9016
Brand	Firestone (Airide)
Pressure Range	90-120 psi
Connector Type	1/8 NPT Thread
Operation Mode	Automatic
Contact Type	Normally Open or Normally Closed
Terminal Type	NPMT
Item Dimensions (L x W x H)	4 x 4 x 2 inches
Item Weight	3.52 ounces
Contact Material	Stainless Steel
International Protection Rating	IP54
Manufacturer	Firestone
UPC	767555023051

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Firestone 9016 Pressure Switch, please refer to the documentation provided at the time of purchase or contact Firestone customer service directly. General product support can be obtained through the manufacturer's official channels.

Contact Information:

- Manufacturer: Firestone
- For support, visit the official [Airide Store on Amazon](#) or the Firestone website.