

SPX FLOW POW 9051

SPX Power Team 9051 Analog Gauge, 4-inch Face Diameter User Manual

Model: POW 9051

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1. PRODUCT OVERVIEW

The SPX Power Team 9051 Analog Gauge is a heavy-duty instrument designed for accurate pressure measurement. It features an easily readable and highly visible red Day-glow needle, ensuring clear readings even in varying light conditions. Constructed with a high-strength steel bourdon tube, this gauge is built for a long cycle life and reliable performance. The stainless steel cases and lens locking rings provide enhanced durability and protection against environmental factors.

This gauge is suitable for various industrial and scientific applications where precise pressure monitoring is critical.

Key Features:

- **Easy-to-Read Display:** Features a highly visible red Day-glow needle for clear pressure readings.
- **Durable Construction:** High-strength steel bourdon tube ensures extended cycle life.
- **Robust Casing:** Stainless steel cases and lens locking rings provide superior protection.
- **Reliable Performance:** Engineered for consistent and accurate pressure measurement in demanding environments.



Figure 1: Front view of the SPX Power Team 9051 Analog Gauge, showing the 4-inch face and red Day-glow needle.

2. SAFETY INFORMATION

Read and understand all instructions and safety warnings before installing or operating this gauge. Failure to follow these instructions may result in equipment damage, personal injury, or death.

- **Pressure Limits:** Do not exceed the maximum rated pressure of the gauge. Over-pressurization can cause gauge failure and potential hazards.
- **System Compatibility:** Ensure the gauge is compatible with the fluid or gas in the system. Incompatible materials can lead to corrosion or failure.
- **Installation:** Install the gauge securely using appropriate tools. Loose connections can lead to leaks or gauge detachment.
- **Environmental Conditions:** Operate the gauge within its specified temperature and environmental

limits. Extreme conditions can affect accuracy and lifespan.

- **Maintenance:** Only qualified personnel should perform maintenance or repairs.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, such as safety glasses, when working with pressurized systems.

3. SETUP AND INSTALLATION

Proper installation is crucial for accurate readings and safe operation. Follow these steps carefully:

1. **Inspect the Gauge:** Before installation, visually inspect the gauge for any signs of damage during shipping. Do not install a damaged gauge.
2. **Prepare the Connection Point:** Ensure the system connection point is clean, free of debris, and has the correct thread type and size for the gauge.
3. **Apply Thread Sealant:** Apply an appropriate thread sealant (e.g., PTFE tape or pipe sealant) to the gauge's threaded connection. Ensure the sealant does not enter the gauge's pressure port.
4. **Install the Gauge:** Thread the gauge into the system connection point by hand until snug. Then, use a wrench on the wrench flats of the gauge (not the case) to tighten it securely. Avoid over-tightening, which can damage the threads or the gauge.
5. **Position for Visibility:** Orient the gauge so that the dial is easily visible for readings.
6. **Pressure Test:** After installation, slowly pressurize the system and check for any leaks around the gauge connection. If leaks are detected, depressurize the system and re-tighten the connection.

4. OPERATING INSTRUCTIONS

The SPX Power Team 9051 Analog Gauge is designed for straightforward operation. Once installed, it continuously displays the system pressure.

- **Reading the Gauge:** Observe the red Day-glow needle against the graduated scale on the gauge face. The needle indicates the current pressure.
- **Units of Measurement:** Note the units of measurement (e.g., PSI, Bar, kPa) indicated on the gauge face.
- **Monitoring Pressure:** Regularly monitor the gauge to ensure the system pressure remains within safe and desired operating limits.
- **Abnormal Readings:** If the needle fluctuates excessively, remains at zero when pressure is expected, or exceeds the maximum scale, investigate the system for potential issues.

5. MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your SPX Power Team 9051 Analog Gauge.

- **Cleaning:** Keep the gauge face clean to ensure clear visibility. Use a soft, damp cloth to wipe the lens. Avoid abrasive cleaners or solvents that could damage the lens or casing.
- **Inspection:** Periodically inspect the gauge for any signs of physical damage, corrosion, or leaks at the connection point.
- **Calibration:** While these gauges are factory calibrated, prolonged use or exposure to extreme conditions may affect accuracy. If precise readings are critical and you suspect inaccuracy, consider professional recalibration.
- **Storage:** If the gauge is removed from service, store it in a clean, dry environment, protected from

extreme temperatures and physical impact.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your analog gauge.

Problem	Possible Cause	Solution
Gauge reads zero when pressure is expected.	No pressure in the system; gauge port blocked; gauge failure.	Verify system pressure; check for blockages in the connection; replace gauge if faulty.
Gauge needle fluctuates excessively.	System pulsation; vibration; air in the system.	Install a snubber or pulsation dampener; check for system vibrations; bleed air from the system.
Gauge reads inaccurately.	Over-pressurization; physical damage; extreme temperature exposure; need for recalibration.	Ensure operating within pressure limits; inspect for damage; check environmental conditions; consider professional recalibration or replacement.
Leaks at the connection point.	Improperly tightened connection; damaged threads; insufficient thread sealant.	Depressurize system, re-apply thread sealant, and re-tighten connection; replace damaged components.

If you encounter issues not listed here or if solutions do not resolve the problem, contact SPX FLOW customer support.

7. SPECIFICATIONS

The following are the technical specifications for the SPX Power Team 9051 Analog Gauge:

- **Model Number:** POW 9051
- **Part Number:** 9051
- **Face Diameter:** 4 inches
- **Material:** Stainless Steel (case and lens locking rings), High-strength steel (bourdon tube)
- **Manufacturer:** SPX Power Team Corporation
- **Item Package Quantity:** 1
- **Package Dimensions:** 10.92 x 10.41 x 3.56 cm
- **Item Weight:** 68 g
- **UPC:** 662536361132

8. WARRANTY AND SUPPORT

SPX FLOW products are manufactured to high standards and are backed by a limited warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official SPX FLOW website.

For technical assistance, troubleshooting, or to inquire about replacement parts, please contact SPX FLOW customer support. Have your model number (POW 9051) and purchase information ready when contacting support.

Contact Information: Please refer to the official SPX FLOW website or your product packaging for the

most current customer support contact details.