



# Swagelok Gauge Mapping Evaluation

## 8 Common Pressure Gauge Failures

The reality is, gauges can fail. Understanding why gauges fail and recognizing the indicators is the first step to preventing failure and selecting the right gauge for your application.

Overpressure



Pressure Spike



Pulsation



Vibration



Temperature



Clogging



Corrosion



Mishandling



For more information or to schedule an evaluation contact us:

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## Swagelok Gauge Mapping Evaluation

Let us help you solve your fluid system challenges—quickly and efficiently. Through our Gauge Mapping Evaluation Service, we bring our technical expertise, application experience, and industry knowledge onsite to help you diagnose and resolve fluid system issues related to your pressure gauges.

### Our Fluid System Experts will:

- Map current pressure gauges in the field
- Identify and tag any issues with the gauges relating to the 8 common failures
- Conduct a root cause analysis to determine failure
- Recommend solutions and a roadmap for implementation
- Provide a detailed report of findings and recommendations

**Fluid System Evaluation and Advisory Service**  
 Customer Name: Site Name  
 Appendix C - Issues by Issue Tag ID

Issue Tag ID: 0001 Category: 2

Plant Area: Air Supply  
 Customer Tag ID: PI-120C  
 Location: North Side of Plant  
 GPS Location:  
 Part Description: 0-100 PSIG Pressure Gauge  
 Process Fluid: Air  
 Pressure: 100 (psig)  
 Temperature: 70 F  
 Issue: Incorrect Part  
 Description: Gauge is being used near max range which  
 Other Findings:  
 Possible Solution: Replace component(s) according to manuf  
 Ultrasound dB:  
 Ultrasound ID:

| Issue Tag ID | Part Type | Issue        | Plant Area | Count | Tag ID | Description   | Number of Issues in this Category | Fixed                    |
|--------------|-----------|--------------|------------|-------|--------|---|-----------------------------------|--------------------------|
| 0003         | Hose      | Small Leak   | Air Supply | 2     | F0012  | Leakage apparent by snoop testing at end connection. Hose cover is worn and damaged.  | 2                                 | <input type="checkbox"/> |
| 0009         | Fittings  | Undertighten | Air Supply | NA    | NA     | Tube fitting measured with gap gauge to be severely under-tightened. Fittings are available with no clearance to fit maintenance. | 1                                 | <input type="checkbox"/> |
| 0004         | Fittings  |              |            |       |        |   |                                   | <input type="checkbox"/> |

**Fluid System Evaluation and Advisory Service**  
 Customer Name: Site Name  
 Appendix B - Issues by Plant Area

| Plant Area | Part Type | Issue      | Category | Count   | Tag ID  | Description  | Number of Issues in this Plant Area | Fixed                    |
|------------|-----------|------------|----------|---------|---------|--|-------------------------------------|--------------------------|
| Air Supply | Fittings  | Small Leak | 2        | CV 0045 | CV 0045 | Leak at fitting and connection detected by snoop. Address to be missing PTFE tape.   | 1                                   | <input type="checkbox"/> |
| Air Supply | Valves    | Corrosion  | 2        | CV 0087 | CV 0087 | Valve exhibiting corrosion which may impact non-compatibility.                       | 2                                   | <input type="checkbox"/> |
| Air Supply | Piping    | Small Leak | 2        | F 0001  | F 0001  | Leakage detected at pipe fitting connections using snoop.                            | 2                                   | <input type="checkbox"/> |
| Air Supply | Hose      | Small Leak | 1        | F0012   | F0012   | Leakage apparent by snoop testing at end connection. Hose cover is worn and damaged. | 1                                   | <input type="checkbox"/> |
| Air Supply | Fittings  | Corrosion  | 2        | G 0265  | G 0265  | Severe corrosion present at base, elbow, and gage body.                              | 2                                   | <input type="checkbox"/> |
| Air Supply | Fittings  | Corrosion  | 3        | NA      | NA      | Tubing is not supported which may lead to excess vibration of system.                | 3                                   | <input type="checkbox"/> |

**IMPORTANT:** Always depressurize the system before working on, disassembling or assembling a fluid system. Safe Product Selection. When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. Function, material compatibility, adequate ratings, proper installation, operation, and maintenance are the responsibilities of the system designer and user.  
 NOTE: Where the Part Number is followed by \*\*, it should be confirmed before placing an order.

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