NOTES:
1. WARNING: This drawing does not illustrate completely the installation methods required for hazardous locations. Prior to any installation in a Classified Hazardous Location, verify installation methods by the Control Drawing referenced on the product’s name tag and national and local codes.

2. The Feed Through Assembly of the NGC is made to accommodate sample acquisition for up to 3 lines. Tube additional lines from a Probe to the Feed Through Assemblies as shown on Sheet 4, for each. Each line must have its own Probe and a Sample Conditioning Module at the NGCs.

3. Totalflow strongly suggests a Temperature Compensating, Pressure Regulating Sample Probe be used. Refer to any manufacturer’s recommendations supplied with probe. If Sample Probe is to be mounted in a section of pipe where cathodic currents exist, you should install isolators in Sample Tubing between probe and NGC.

4. API 14.1 recommends using a Strouhal number to determine probe lengths, therefore reducing the effects of resonant vibration. Please refer to API standards for additional information.

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**Typical Installation**

- **Sample Probe (SEE NOTES 3 & 4)**
- **Customer Installed Coupling**
- **Pressure Gauge Outlet Port 1/4" NPT**
- **Relief Valve 3/4" NPT**
- **sample Probe SEE SHEET 4**
- **Sample Conditioning Modules SEE SHEETS 4 & 5**
- **NGC SEE SHEETS 4 & 5**
- **Carrier Gas & Regulator SEE SHEETS 2, 3 & 4**
- **Calibration Gas & Regulator SEE SHEETS 2, 3 & 4**

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**Reference:** N/A
1. **WARNING:** This drawing does not illustrate completely the installation methods required for hazardous locations. Prior to any installation in a Classified Hazardous Location, verify installation methods by the Control Drawing referenced on the product’s name tag and national and local codes.

**NOTES:**

<table>
<thead>
<tr>
<th>HIGH PRESSURE INLET</th>
<th>MEDIUM PRESSURE PORT</th>
<th>LOW PRESSURE SWITCH</th>
<th>CABLE TO BARRIER</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INCREASE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DECREASE</strong></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Carrier Regulator**

**Calibration Regulator**

**Carrier & Calibration Regulator Details**
NOTES:
1. WARNING: This drawing does not illustrate completely the installation methods required for hazardous locations. Prior to any installation in a Classified Hazardous Location, verify installation methods by the ControlDrawing referenced on the product’s name tag and national and local codes.
2. To access termination board, remove the Rear End Cap of the unit (a 1/16\textsuperscript{th} Hex Set Screw must be loosened to remove the Cap).

Installations in a hazardous location will require a barrier. SEE NOTE 1

NGC Term Bd. (Main)
P/N 2102080

NGC (Main) To Carrier and Calibration Gas Regulators (DI1 & DI2)
Connecting Lines to the Feed Through Assembly

- Calibration Gas (15PSIG)
- Carrier Gas (90PSIG)
- Sample Probe (15PSIG)
- Sample Conditioning Module

**NOTES:**

1. **WARNING:** This drawing does not illustrate completely the installation methods required for hazardous locations. Prior to any installation in a Classified Hazardous Location, verify installation methods by the Control Drawing referenced on the product’s name tag and national and local codes.

   - The Feed Through Assembly of the NGC is made to accommodate sample acquisition for up to 3 lines.
   - Tube additional lines from a Probe to the Feed Through Assembly as shown, for each. Each line must have its own Probe and a Sample Conditioning Module at the NGC.

   - All 4 Vents MUST be open
   - If Vent Tubing is not of a sufficient length, measure and cut new tubing (not supplied by Totalflow) and re-use the hardware provided to attach.
     - Make necessary bends to install tubing
     - Place nut and ferrule onto Feed Through Assembly end of tubing
     - Insert tubing and ferrule into one of the vent ports and tighten
     - Move Valco Nut down onto ferrule, screw into the port and tighten.
   - Do not tee vents together unless they are going into a larger tubing size. If the vents must extend more than 10 feet (3 meters), the diameter of the extended vent lines should be increased to 1/4 inch.
NOTES:
1. WARNING: This drawing does not illustrate completely the installation methods required for hazardous locations. Prior to any installation in a Classified Hazardous Location, verify installation methods by the Control Drawing referenced on the product’s name tag and national and local codes.

Descriptions & Connections to Available Sample Conditioners

Type 3
Totalflow P/N: 2102024-001
Install this option if distance to Sample Probe is from up to, but less than 450' (137 meters).
This system is for stable gas and other solid contaminants, plus possible liquid contamination such as glycol, compressor oil or water.

Type 4
Totalflow P/N: 2102494-001
Install this option if distance to Sample Probe is from up to, but less than 450' (137 meters).
This system is an H₂S version of the Type 3.

Type 3
Totalflow P/N: 2103380-001
Install this option if distance to Sample Probe is from up to, but less than 450' (137 meters).
This system is for gas samples with heavy solids and liquid contamination. If liquid breaks through the membrane filter, sample flow will be blocked to the analyzer. Once liquids are no longer present, sample flow will be resumed automatically.
The entire sampling system, including the Sample Probe, must be kept at a constant temperature if ambient temperature is less than the Dew Point.

Type 4
Totalflow P/N: 2103381-001
Install this option if distance to Sample Probe is from up to, but less than 450' (137 meters).
This system is an H₂S version of the Type 4.