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 Assemblies of the Dual NGCs are 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.
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.

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**Carrier Regulator**

- High Pressure Inlet
- Medium Pressure Port
- Low Pressure Ports
- Relief Valve (Preset to 120PSI)

**Calibration Regulator**

- High Pressure Inlet
- Medium Pressure Port
- Low Pressure Port
- Relief Valve (Preset to 30PSI)

**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 Control Drawing referenced on the product’s name tag and national and local codes.

2. To access the NGC termination board, remove the enclosure rear cover.
Connecting Lines to Feed Through Assemblies

Calibration Gas (15PSIG)  
Carrier Gas (90PSIG)  

Feed Through Assembly (Main)  
Feed Through Assembly (Auxiliary)  
Sample Conditioning Module  
Sample Probe (15PSIG)  

VENT LINES  
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.

NGC8209 (C9+)
Feed Through Restrictor for CV2 on Auxiliary Feed Through only  
P/N 2102325-002  

The Feed Through Assemblies of the Dual NGCs are made to accommodate sample acquisition for up to 3 lines. 
Tube additional lines from a Probe to the Feed Through Assemblies as shown, for each. Each line must have its own Probe and a Sample Conditioning Module at the NGCs.
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 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 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 an H₂S version of the Type 3.

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.