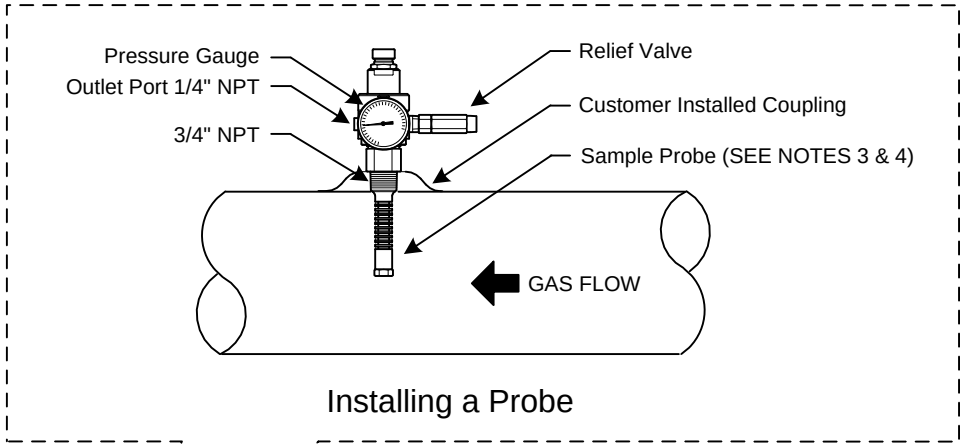
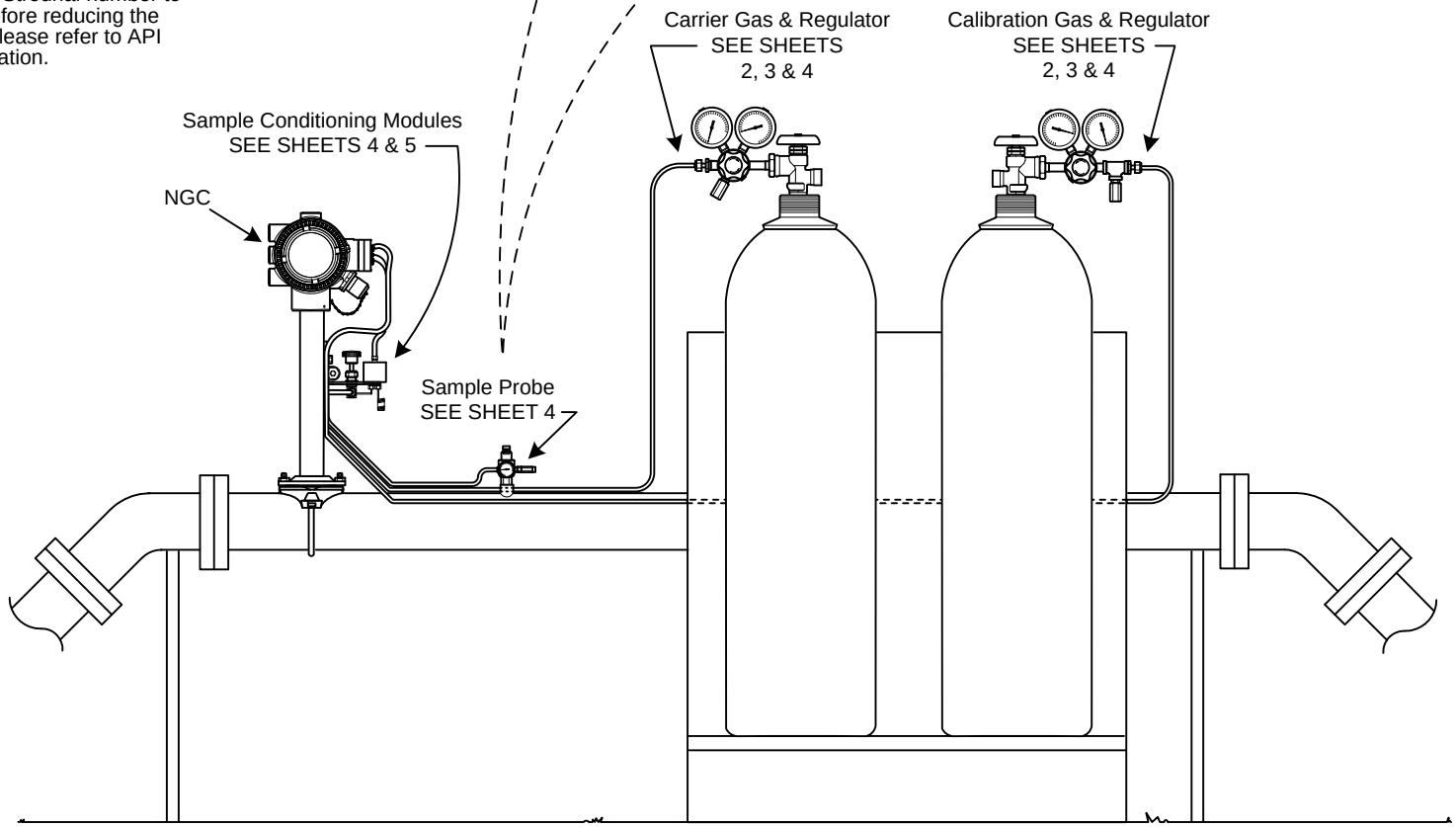
NOTES:

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.



Installing a Probe



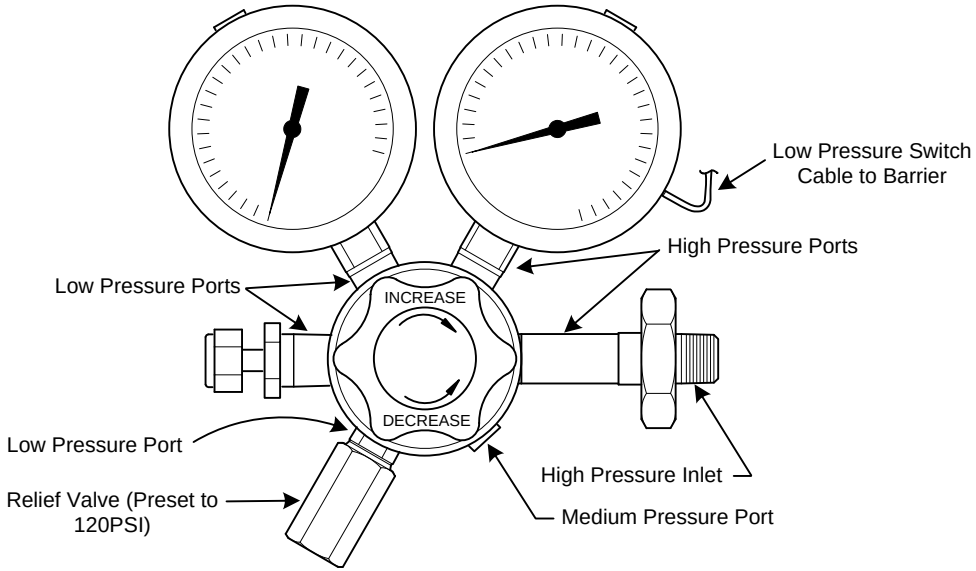
Typical Installation

REF: N/A

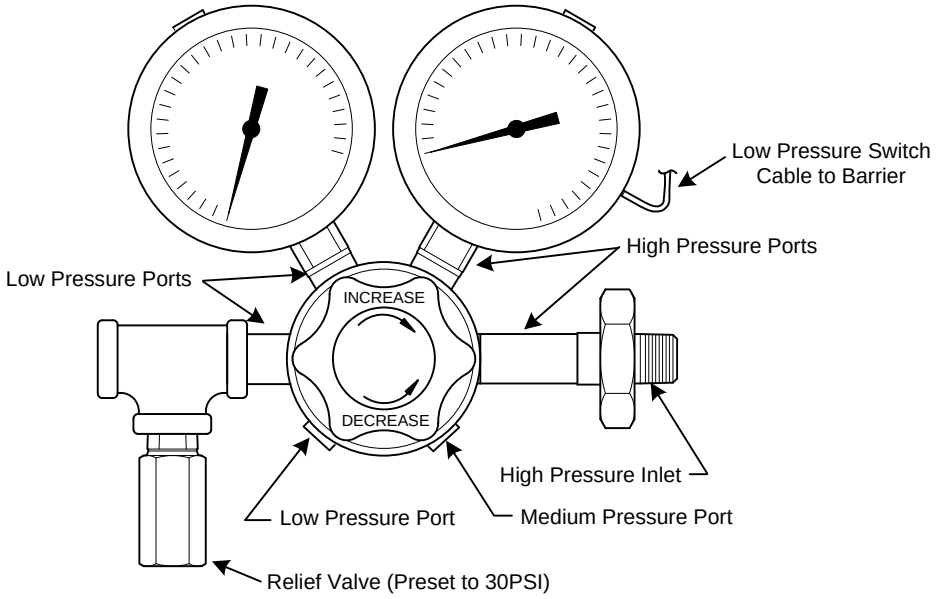
ABB TOTALFLOW Products	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
	D24129	UD	INSTALLATION OF SAMPLE, CARRIER AND CALIBRATION LINES FOR NGC	2103085	AC	1 OF 5

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.



Carrier Regulator



Calibration Regulator

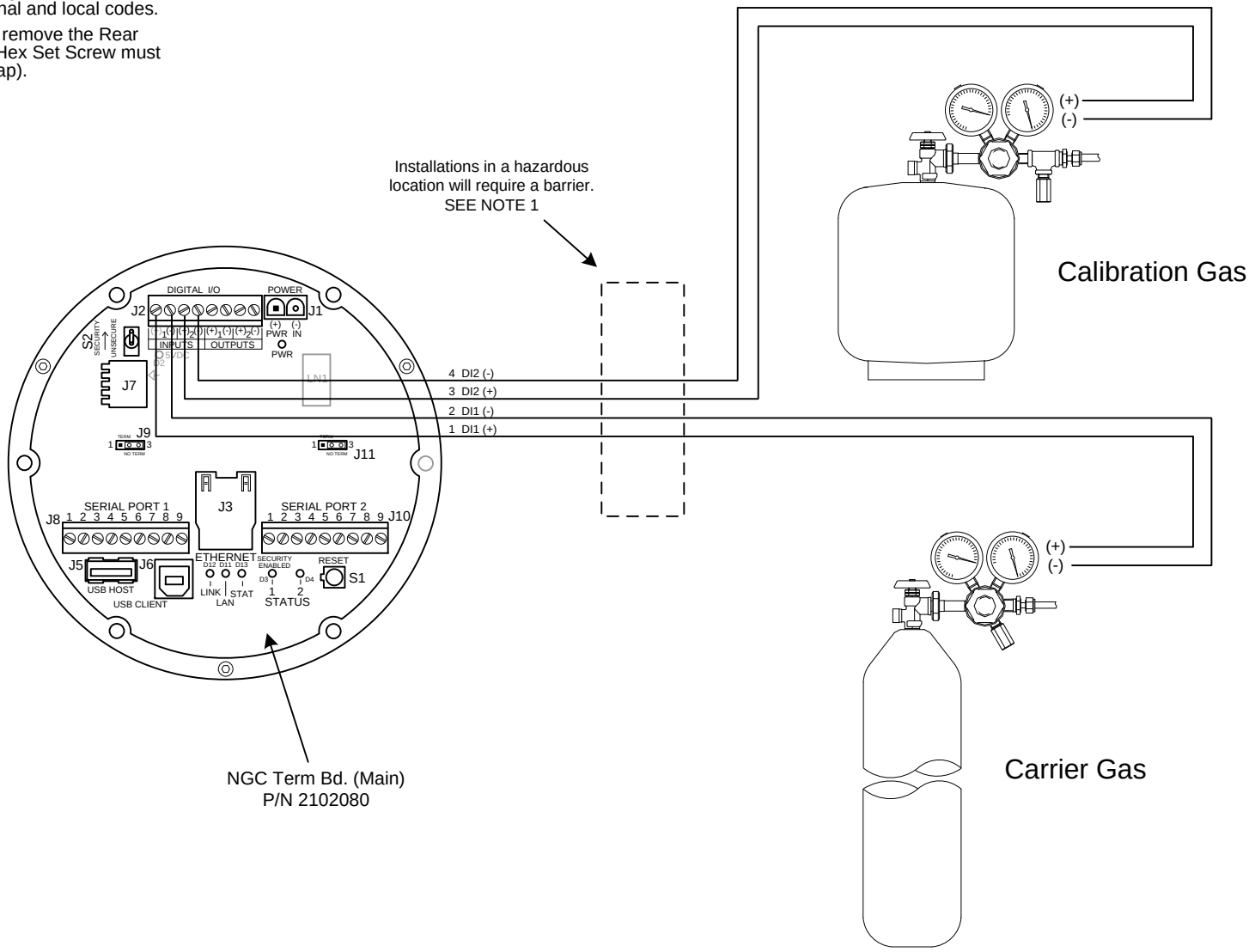
Carrier & Calibration Regulator Details

REF:N/A

ABB TOTALFLOW Products	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
	D24129	UD	INSTALLATION OF SAMPLE, CARRIER AND CALIBRATION LINES FOR NGC	2103085	AC	2 OF 5

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 1/16th Hex Set Screw must be loosened to remove the Cap).



NGC (Main) To Carrier and Calibration Gas Regulators (DI1 & DI2)

REF: N/A

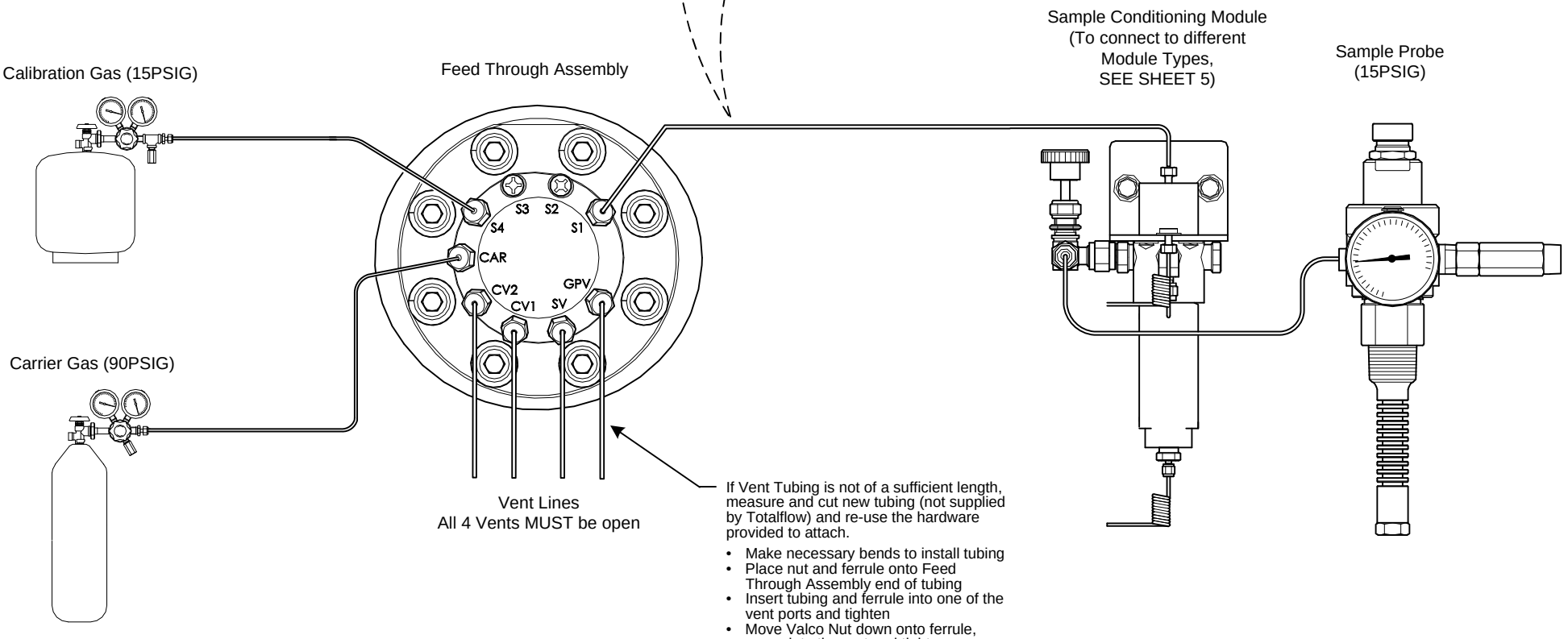
TOTALFLOW Products	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
	D24129	UD	INSTALLATION OF SAMPLE, CARRIER AND CALIBRATION LINES FOR NGC	2103085	AC	3 OF 5

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.



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.

Connecting Lines to the Feed Through Assembly

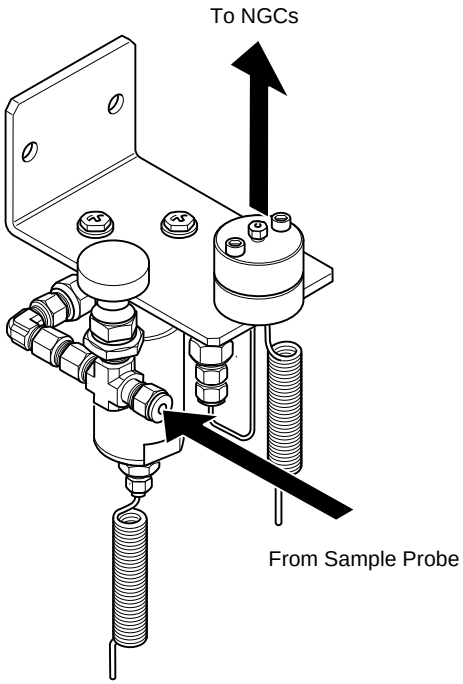
REF:N/A

TOTALFLOW Products	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
	D24129	UD	INSTALLATION OF SAMPLE, CARRIER AND CALIBRATION LINES FOR NGC	2103085	AC	4 OF 5

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.

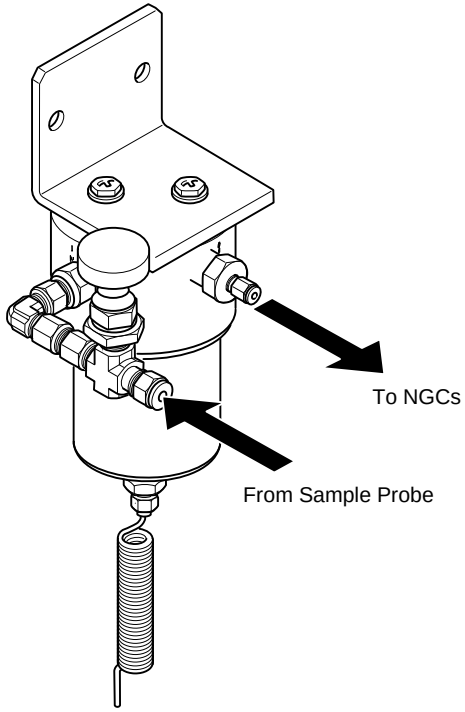
Descriptions & Connections to Available Sample Conditioners



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.

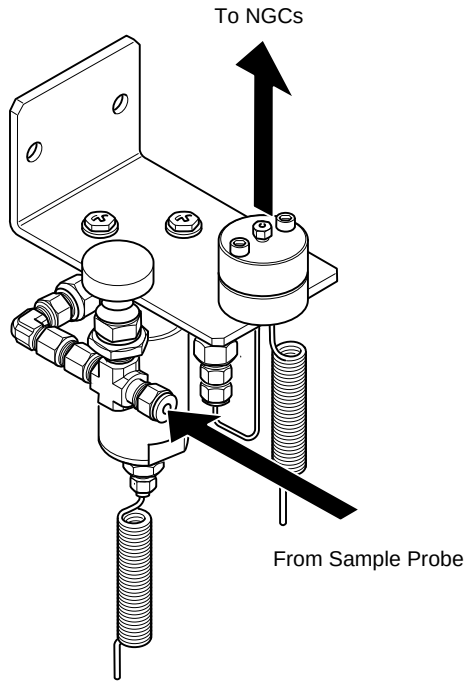


Type 4
Totalflow P/N: 2102494-001

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.

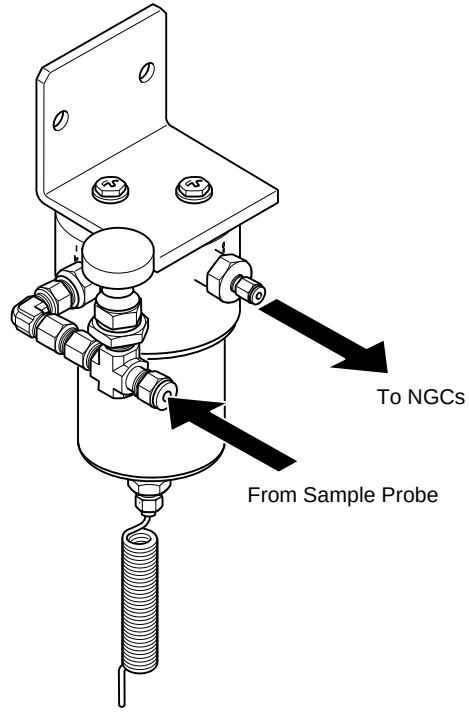
The entire sampling system. including the Sample Probe, must be kept at a constant temperature if ambient temperature is less than the Dew Point.



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 H^2S 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 H^2S version of the Type 4.

REF:N/A

ABB TOTALFLOW Products	ACTION	DOC TYPE	TITLE	DWG NO.	REV	SHEET
	D24129	UD	INSTALLATION OF SAMPLE, CARRIER AND CALIBRATION LINES FOR NGC	2103085	AC	5 OF 5