

Operating Instructions



These instructions provide information for installation, operation and maintenance of the Liquefied Gas Sampling System (LGSS).

The LGSS is designed to operate under continuous flow via a bypass or parallel line off the main process piping. Replacement parts are available, see page 5.

Design and specifications are subject to change without notice.

For latest revision, go to SENSOReng.com

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Installation

- 1 Before beginning installation, verify that the Sampling System includes all necessary components and inspect it for damage that may have occurred during shipment.
- 2 Install the panel onto a 2" pipe stand and secure using the provided pipe clamps.
- 3 Before connecting to the system it is important to ensure that the Sampling System's fittings are tightly fastened. Use an open-ended wrench with the size indicated in the table below to tighten fittings with the corresponding tubing size.



If needed tighten the fittings, however, be careful not to over tighten them. Doing so can cause the system to leak from the damaged fitting.

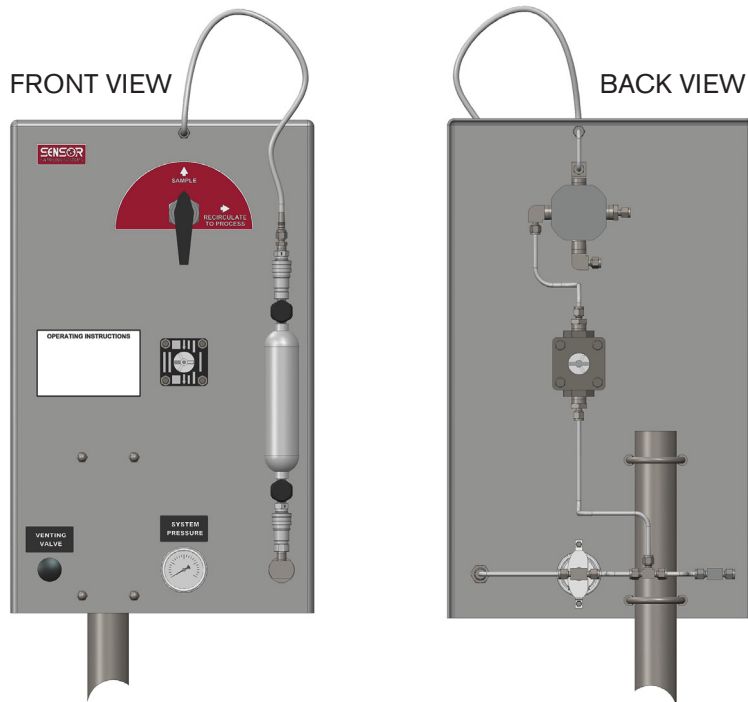
Tubing Size	Wrench Size
1/4"	9/16"
3/8"	11/16"



Before connecting to the system, it is important that the Sampling System's valves are in the proper position. Refer to the table for the required valve positions.

Valve Name	Installation Position
Sample/Recirculate to Process Valve	Recirculate to Process
Vent Valve	Closed

- 4 Connect the **Sample In Line** and **Sample Out Line** to the corresponding fittings on the panel.
- 5 Finally, connect the Vent Line to the appropriate fitting.
- 6 The Sampling System installation is now complete.





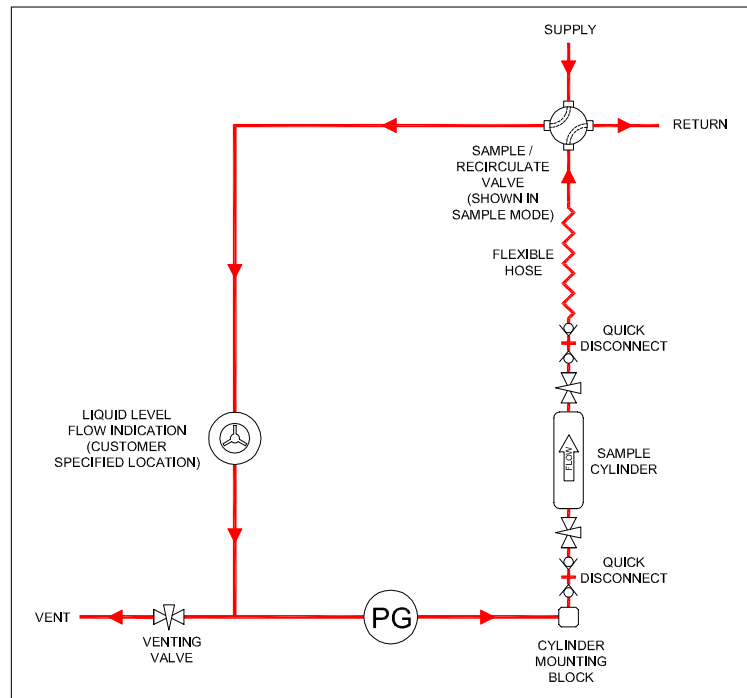
Before proceeding verify that the Sampling System's valves are in the proper position per the table.

Valve Name	Starting Position
Sample/Recirculate to Process Valve	Recirculate to Process
Vent Valve	Closed

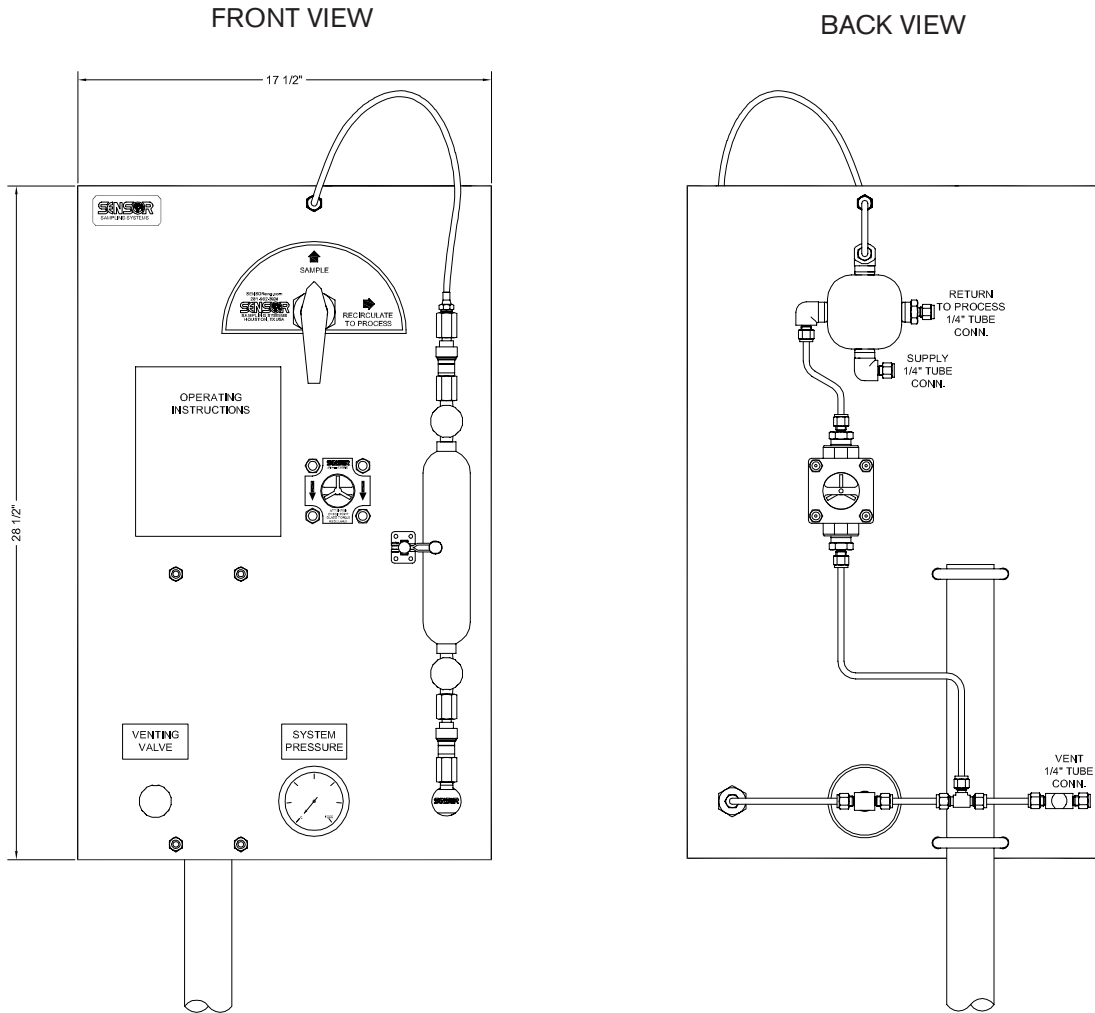
- ❶ Secure the sample cylinder to the panel using the quick-connect fittings.
- ❷ Ensure both **Sample Cylinder Valves** are in the **Open Position**.
- ❸ Change the position of the **Sample/Recirculate to Process Valve** from recirculate to process to **Sample Position**. This will cause the process media to start flowing through the system and thus the sample cylinder.

NOTE: Before taking a sample allow enough time for fresh process media to circulate through the sample cylinder.

- ❹ When the sample is deemed ready to collect, change the position of the **Sample/Recirculate to Process Valve** from sample to **Recirculate to Process Position**. This diverts the flow of process media through the system.
- ❺ Change the **Vent Valve** to the **Open Position**.
- ❻ With the vent valve open, monitor the sample level as it drops in the flow indicator.
- ❼ Once appropriate liquid level outage is shown in the indicator change the **Vent Valve** back to the **Closed Position**.
- ❽ Change the position of both **Sample Cylinder Valves** to the **Closed Position**. This isolates the captured sample within the sample cylinder.
- ❾ Change the **Vent Valve** to the **Open Position**. This allows any process media trapped in the quick-connect fittings and sample loop to be safely vented to a flare or other suitable low pressure location.
- ❿ After ample time has passed for any residual process media to escape and the system pressure has dropped to zero, change the **Vent Valve** back to the **Closed Position**.
- ⓫ The sample cylinder can now be safely removed from the quick-connect fittings.



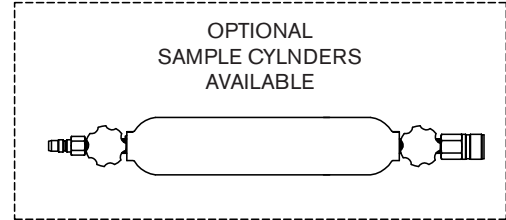
Dimension Drawings



*Dimensions are for reference only.
Contact the factory for certified drawings.*

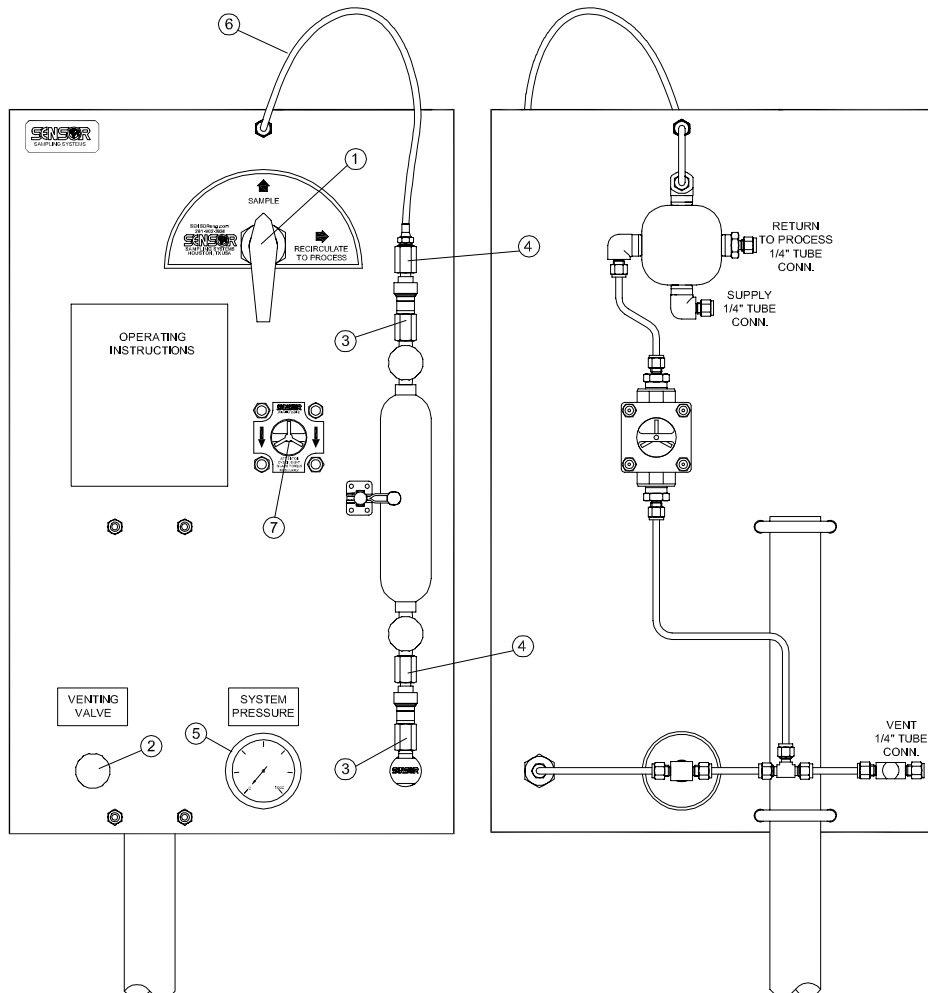
SPARE PARTS

SYM.	PART NUMBER	SPARE PARTS DESCRIPTION
①	SMPV4SHOKB4T	4-WAY SAMPLE VALVE
②	SMPV2SHOKN4F	VENT VALVE
③	SMPQCSSWKQC4BFKZ	QUICK CONNECT BODY
④	SMPQCSSWKQC4SFKZ	QUICK CONNECT STEM
⑤	SMPGASESP600CB	0-600PSI PRESSURE GAUGE
⑥	SMPFHSSHI4M4T26	26" FLEX HOSE
⑦	SMPSGSBL8F	SIGHT GLASS



FRONT VIEW

BACK VIEW





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