

**Operating Instructions**



These instructions provide information for installation, operation and maintenance of the Vapor Sampling System (VSS).

The VSS 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](http://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.*

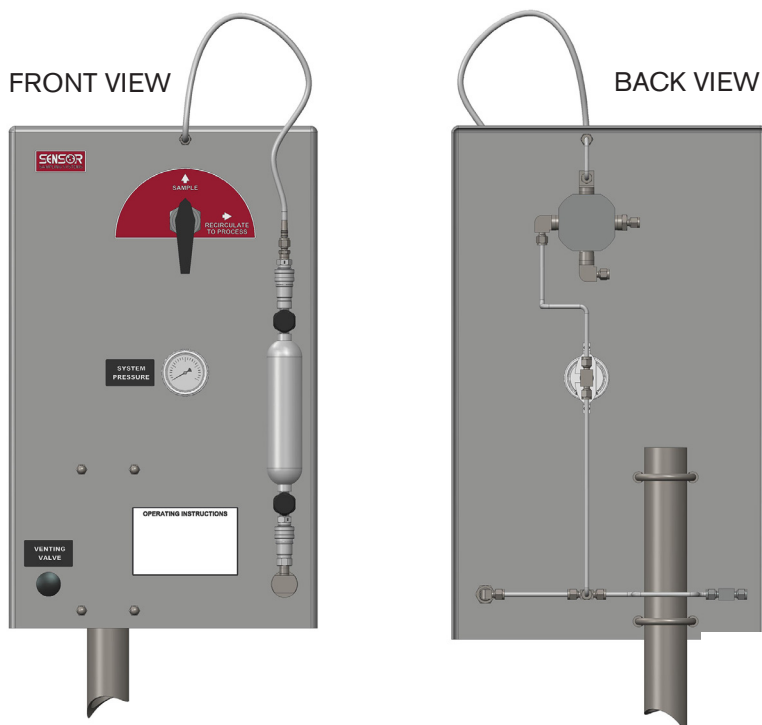
Tubing Size	Wrench Size
1/4"	9/16"
3/8"	11/16"



*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 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.





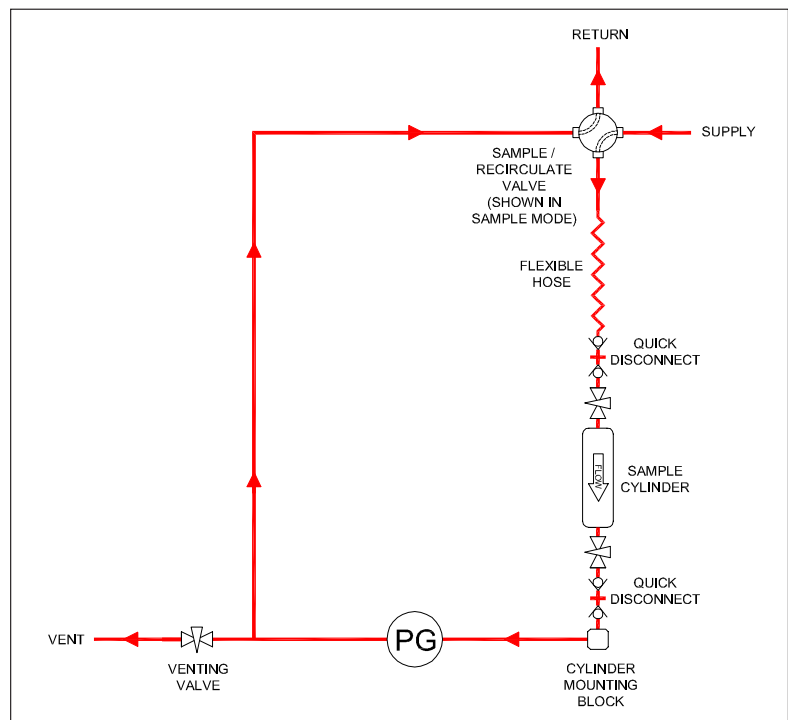
*Before proceeding verify that the Sampling System's valves are in the proper position per the table.*

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

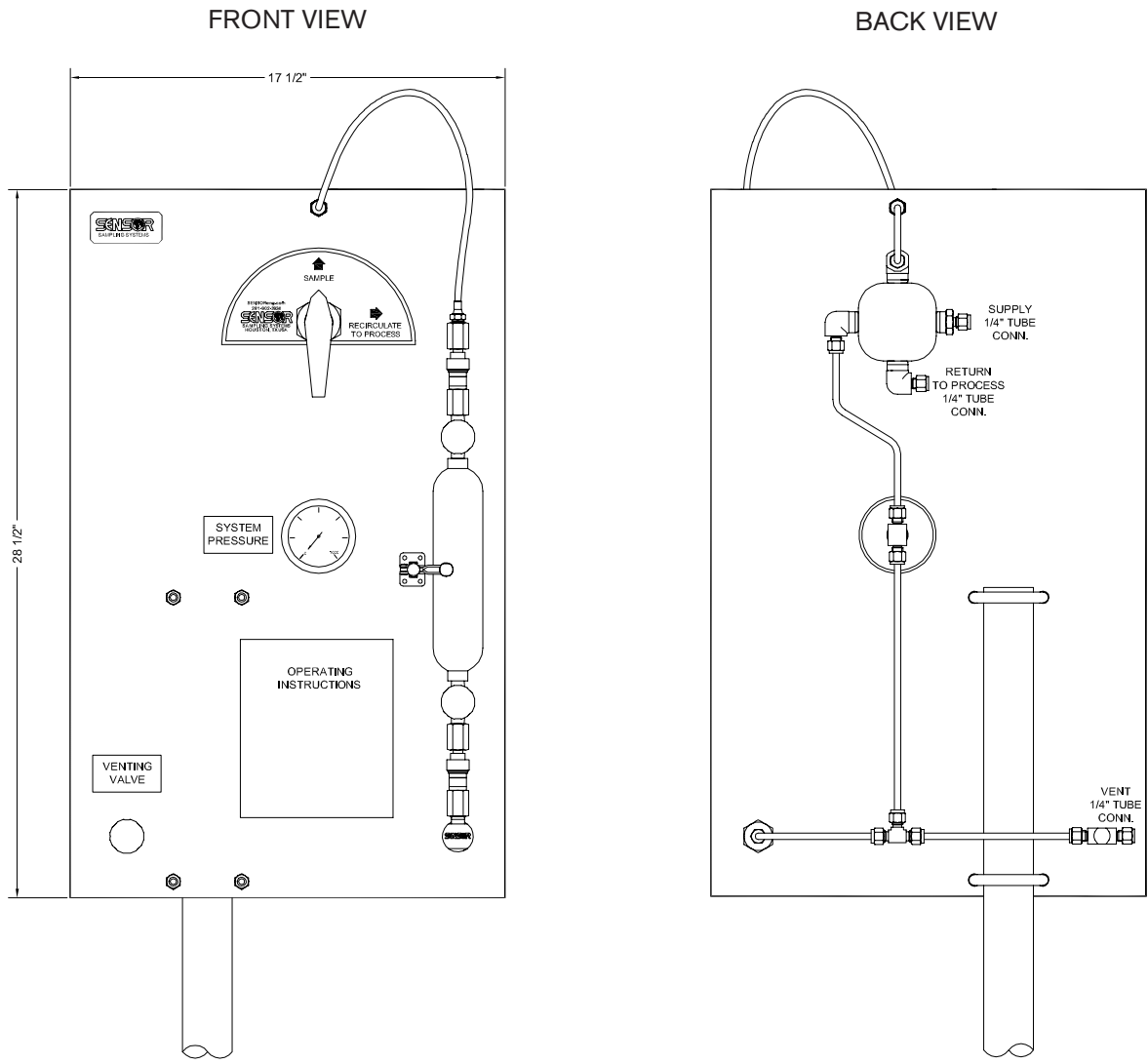
- ❶ Secure the sample cylinder to the panel using the quick-connect fittings.
- ❷ Ensure both **Sample Cylinder Valves** are in the **Open Position**.
- ❸ Change the position of the **Sample/Recirculate to Process Valve** from recirculate to process to **Sample Position**. This will cause the process 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 position of the both **Sample Cylinder Valves** to the **Closed Position**. This isolates the captured sample within the sample cylinder.
- ❻ 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.
- ❼ After ample time has passed for any residual process media to escape and the system pressure to drop to zero, change the **Vent Valve** back to the **Closed Position**.
- ❽ The sample cylinder can now be safely removed from the quick-connect fittings.



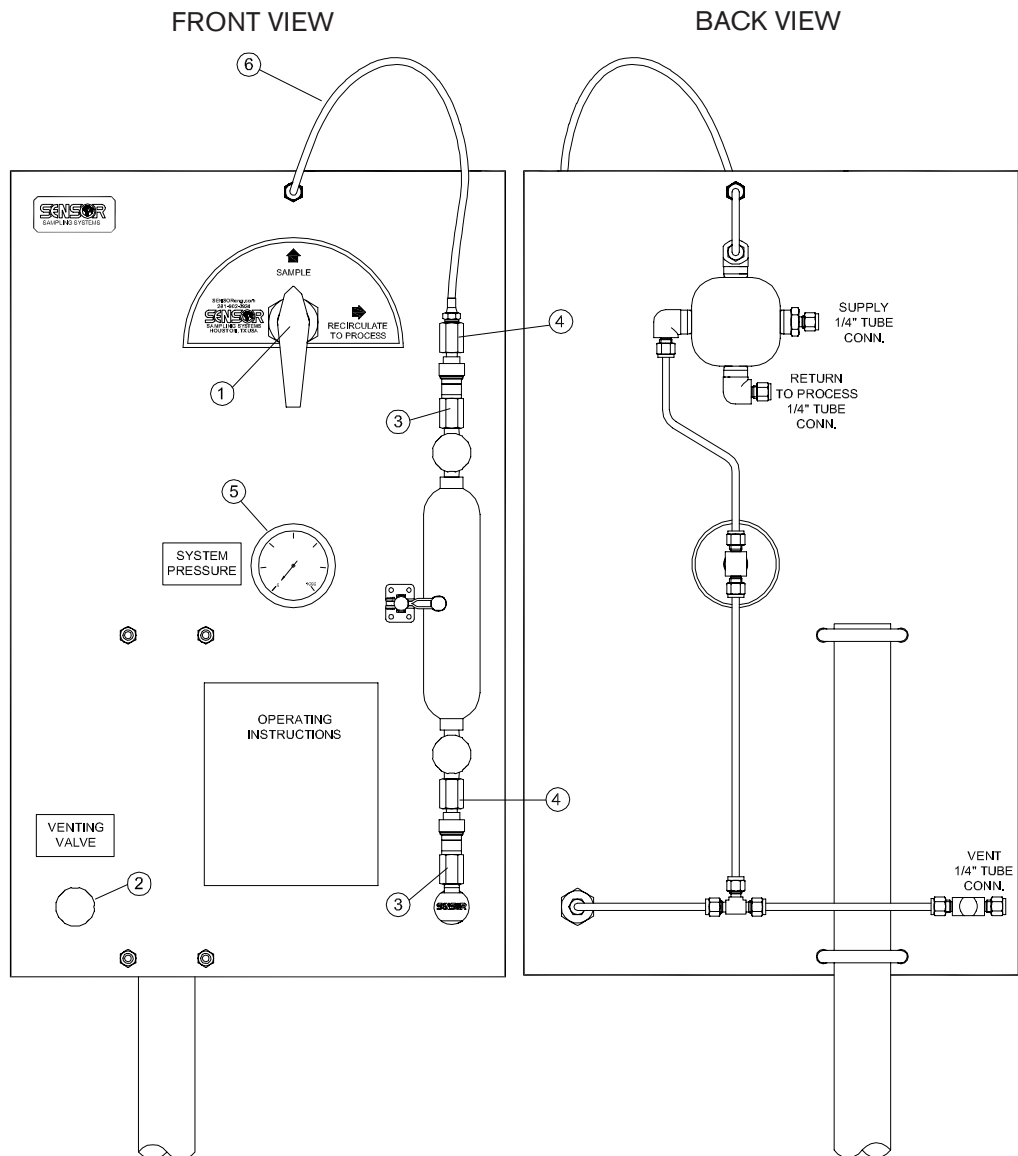
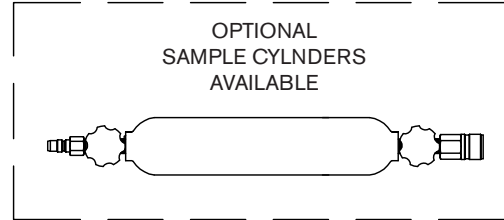
**Dimension Drawings**



*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





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