

INSTRUCTIONS FOR FILLING LOW PRESSURE SAMPLE CYLINDERS

WARNING

Please **read carefully** in order to prevent personal injury. Only persons trained in filling of SCBA's should attempt to fill this cylinder. Hearing and eye protection should be worn. The provided cylinder is to be used for the acquisition of compressed breathing air samples from **low pressure systems**. The cylinder is provided with a 1/4 inch MNPT coupler fitting. The cylinder has been slightly pressurized with nitrogen in order to maintain a dry atmosphere. It is important that **all 8** sample collection steps are followed or the sample **may not be processed**.

SAMPLE COLLECTION INSTRUCTIONS

1. Before connecting the sample cylinder, purge the gas line for at least 5 minutes (add more time if line is very long).
2. Vent the nitrogen from the cylinder using the outlet valve at the **top** of the cylinder (by pressure relief valve). **If you vent the cylinder using the wrong valve the sample integrity may be compromised.**
3. Bring the pressure on the compressor system gas line down to 100 psig or less.
4. Connect the gas line to the inlet valve at the **bottom** of the cylinder and open the inlet valve.
5. Allow the gas to flow through the cylinder for **20-30** minutes. Make sure that the air stream is directed away from all personnel. **For ambient samples, it is important to allow a flow through the cylinder for at least 30 minutes.**
6. Close the outlet valve and allow the cylinder to pressurize. Once the cylinder is pressurized close the inlet valve. Close the source gas valve, **depressurize the gas line**, and disconnect the line from the cylinder. Verify that the cylinder gauge is reading the proper pressure. **Under no circumstances must the gauge read more than 100 psig.**
7. Fill out the tag on the cylinder. This information is important for the accuracy of the results. **If the tag is not filled out the sample may not be processed.**
8. Fill in the Compressor Specifications Sheet provided. Return this sheet, along with the cylinder, to RPC. **All information must be filled out on this sheet or the sample may not be processed.**

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