

Collection of natural gas samples with the single-valve IsoTube® and the IsoSampler™ Go

CAUTION: The IsoSampler Go includes a pressure regulator that is rated for use up to a maximum of 3000 psig (200 bar).

If pressures higher than this could be encountered, additional pressure control will be required.

NOTE: IsoTubes are NOT suitable for gases containing hydrogen sulfide (H₂S, sour gas).

Step 1 – Connecting the IsoSampler Go

- Locate a suitable, vertical port for collecting a sample. A ‘suitable port’ will supply a dry, liquid free gas sample and should consist of both a ¼” female NPT port, and a control valve that can be used to turn the gas on and off.
- Make sure that the threads on the IsoSampler Go are clean and wrap 2 or 3 layers of Teflon® tape clockwise onto the male threads of the Adapter.
- Screw the IsoSampler Go into the ¼” female NPT sampling port and then tighten by using a wrench on the body of the adapter fitting.

Step 2 - Checking an evacuated IsoTube

- Remove a new IsoTube from the plastic film and connect the IsoTube to the pressure gauge by pressing the valve stem into the chuck until it clicks into place.



- The vacuum reading should be between -25 and -30 inHg. If the reading is not at least -25 inHg of vacuum, do not use the IsoTube. Open another IsoTube and check vacuum to confirm the tube is suitable for use.
- Once the vacuum level is confirmed, remove the IsoTube from the pressure gauge chuck by pulling back the outer sleeve of the chuck until the IsoTube is released.

Step 3 - Collecting a sample

- Open the valve on the port the IsoSampler Go is connected to. This will allow the sample gas to purge the IsoSampler Go. It should take 30 seconds to fully purge IsoSampler Go.
- Next push the IsoTube valve into the quick-connect Chuck until it clicks into place. Wait 30 seconds for the IsoTube to be filled with sample gas.
- Remove the IsoTube from the quick-connect Chuck.



IsoTube®

Chuck

Adapter with
1/4" Male NPT threads

Step 4 – Checking the pressure of the filled IsoTube®

- Connect the IsoTube to the pressure gauge by pressing the IsoTube into the quick-connect chuck until it clicks into place.



- Sample pressure should be between 5 and 80 psig.
- If there is no pressure, repeat the sample collection process with an evacuated IsoTube.
- If multiple samples in a row fail to generate pressure, troubleshooting may be required.
- Once the IsoTube is checked, remove the IsoTube from the pressure gauge chuck by pulling back the outer sleeve of the chuck until the IsoTube is released.

Step 5 – Labeling the IsoTubes

| | |
|--------------------|--------------|
| #61884 | |
| Depth or Sample ID | 58PSI |
| Gas Units | Pressure |
| 01/Jan/2024 14:30 | DDC |

- There are adhesive backed labels included with each box of IsoTubes. Fill in the labels using a ballpoint pen and **press hard** as duplicate copies are being made.
- Place a cap over the valve on the IsoTube. Return the IsoTube to the shipping box. When a box of 25 IsoTubes is full, check to see that all caps have been attached. Remove the yellow copy of the sample identification tags and keep it for your records. The white copy should be put back in the box with the IsoTube samples.

Step 6 – Shipping IsoTubes

- Pressurized IsoTubes must be shipped as hazardous material. The necessary warning labels and shipping instructions are included in each box.
- For information about shipping IsoTubes go to:

https://www.isotechlabs.com/customersupport/shippingguidelines/IsoTubeSP_UN2037.pdf

