# Collection of mudgas samples with the single-valve IsoTube® and the IsoSampler Pro™

Note: IsoTubes are not suitable for collecting gases containing hydrogen sulfide (H₂S, sour gas)

The IsoSampler Pro has two pump output settings. **Make sure you have selected the correct pump output setting for your gas flow rate prior to taking a sample, or your samples may be compromised.** Scan the QR code on the IsoSampler Pro for more information about the setup and configuration of the IsoSampler Pro.

Step 1 - Checking an evacuated IsoTube
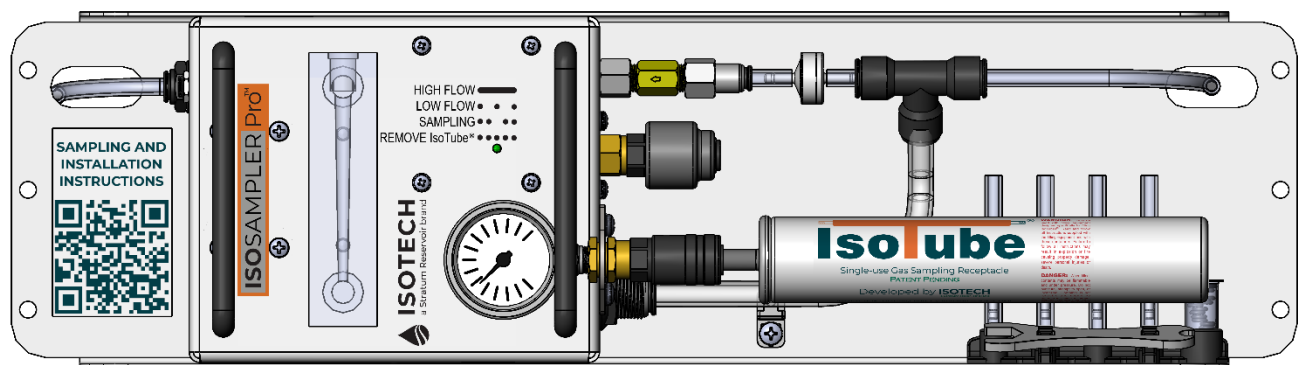
- Remove a new IsoTube from the plastic film and connect the IsoTube to the pressure gauge by pressing the valve stem into the chuck until it clicks into place.

- 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.

Note: if the equipment is located at altitude, the pressure gauge will read slightly negative before the IsoTube is connected.

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Step 2 - Collecting a sample
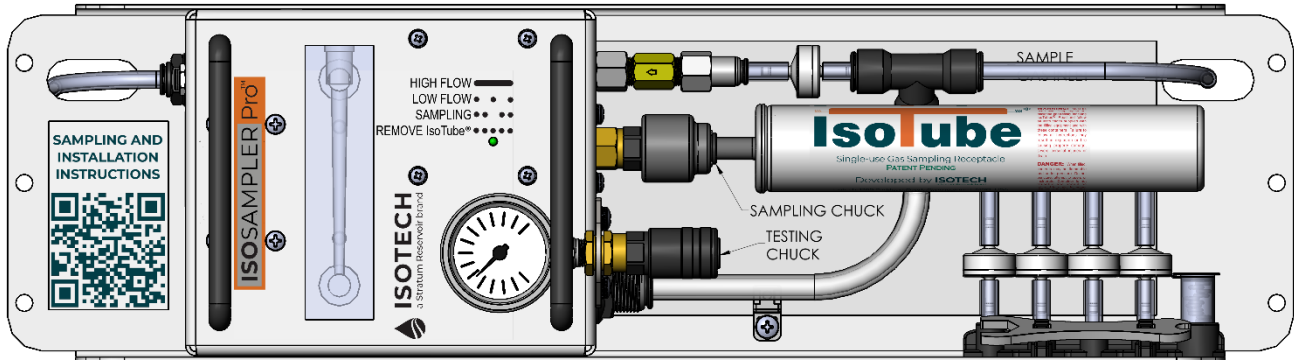
- Connect the IsoTube to the sample port by pressing the IsoTube into the quick-connect chuck until it clicks into place.

- The indicator LED will double flash during the sampling process.

  - If the device is configured for high flow sampling, the pump will turn on immediately. The filling process will take approximately 30 seconds.

  - If the device is configured for low flow sampling, the pump will begin a process of cycling on and off as the pressure in the tube increases. The filling process will take approximately 70 seconds.

- Once the process has been completed, the indicator LED will begin to fast flash, indicating you may now remove the IsoTube from the sampling chuck by pulling back the outer sleeve of the chuck until the IsoTube is released.

- **Tubes used for collecting samples should have their pressure checked and label applied immediately after collecting (See Steps 3 and 4 below).**

Step 3 - Checking the pressure of the filled IsoTube®
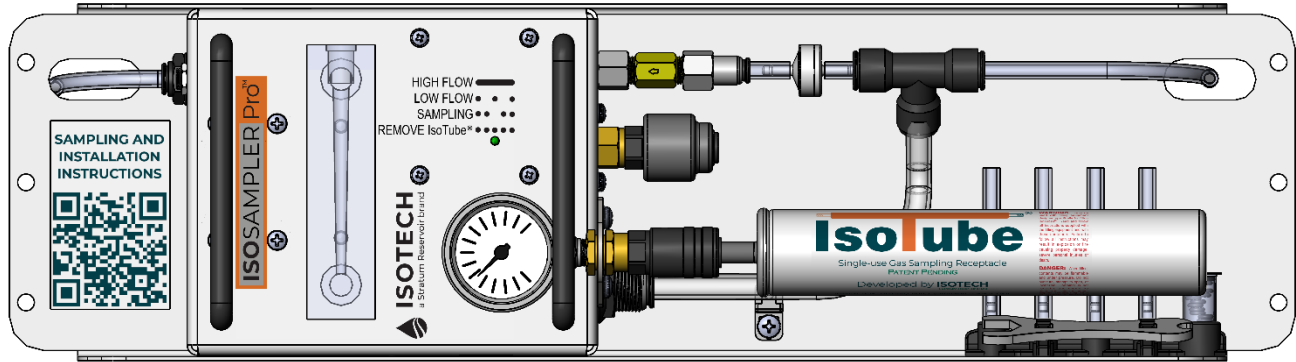
- Connect the IsoTube to the pressure gauge by pressing the IsoTube into the quick-connect chuck until it clicks into place.

- The pressure after sampling should be between 4 and 10 psig.

    o If there is no pressure, repeat the sample collection process.

    o 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.

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a Stratum Reservoir brand

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Step 4 – Labeling the IsoTubes

Attach this label to INSIDE flap of box

AJAX OIL CO / BIG RIG
COMPANY or RIG

OCS-G-12345 ST #2
FIELD or WELL

10,000 FT
Depth or Sample ID

130 GU
Gas Units

01/Jan/2024   14:30

8 PSI
Pressure

DDC

- There are adhesive backed labels included with each box of IsoTubes. Fill in the labels using a ballpoint pen and **press hard** as two duplicate copies are being made.

- The first label on each sheet *(above left)* provides space for identification of the company, rig and well as shown. This first label should be placed on the inside flap of the box.

- Complete one of the individual sample information labels *(above right)* for each sample. Remove the completed label from the backing sheet and attach it to the IsoTube in the indicated area immediately after the sample is collected.

- 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 5 – 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