



Analytical
Science & Technologies



Lowering the pressure on ABO sample testing

LPMS-ABO Testing Kit

Engineered as a portable, non-hazardous solution to Aviator Breathing Oxygen sampling, the LPMS-ABO is designed to take safe, repeatable samples from any high-pressure liquid and gaseous oxygen source.

Using best engineering practices, the LPMS system will phase change a liquid cryogenic sample to a low pressure gas sample, suitable for non-hazardous shipping. Patented sampling methods maintain representative sample characteristics for off-site analysis.

Fast, Safe, Simple and Stable, the LPMS is the best in class sampling system for cryogenic samples.



Design Points:

- No electricity required
- Iso-kinetic sample vaporization with passivated pressure reduction
- Easy training, safest worker environment
- ZDV quick connect for direct, low pressure sample can connection
- ATA 300 compliant shipping case
- Seamless integration to the AirBreather ABO Analytical System

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FAQ

Does this technique meet MIL-PRF-27210, CGA, ASTM?

- This technique exceeds the MIL, CGA and ASTM standard for performance, sample stability and interferences for Type I and Type II oxygen samples
- This technique is safer than the current recommended, high pressure technique

What are the DOT requirements for the Sample Can ?

- The sample can is NOT a pressure vessel. Therefore, there are no routine pressure test or hydrostatic testing requirements

Can the Sample Can be re-used?

- The sample can is made of electropolished stainless steel and passivated with an inert coating. The can has an infinite lifespan when used properly

What about the quick connect?

- The ZDV fitting uses an internal bayonet closure
- No reactive materials are in the gas path
- The bayonet is captured inside the metal sleeve (to prevent inadvertent opening)

There are no pressure relief devices on the sample can. Is it safe?

- Yes, the system is designed to be used as a complete device
- It is not to be used in service pressures greater than 30 psig and has a MAWP > 10x
- Pressure relief devices are located on the sampling system (high pressure liquid relief, low pressure gas relief)
- A pressure regulator is installed with 30psig max outlet pressure
- The ZDV can only be used with mating ZDV's and cannot be hooked up to other devices

Contact ASTG For Additional Information

Please contact us for additional information regarding the LPMS-ABO Testing Kit and for information about other ASTG products and specialty gas services.

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