

Gas Sample Bottles

Ensures safer gas sampling and transportation

APPLICATIONS

- Collecting and transporting large volumes of separator gas for physical recombination

BENEFITS

- US Department of Transportation (DOT) Transport Canada (TC), and Transportable Pressure Equipment Directive (TPED) approved
- Lighter design for easier handling and cost-efficient transport

FEATURES

- Large-volume capacity
- No welds
- Evacuated before use
- Sufficient gas from one sample
- Custom-designed sample-bottle shipping box
- End-cap valve safety protection
- Dangerous goods shipping labels
- Reservoir sample chain-of-custody tracking using the Schlumberger global Web-based sampling and analysis information management system

Gas sample bottles (GSBs) are sample cylinders for the transportation and storage of separator and process-line samples. They are used primarily for well test separator sampling during production testing. As a part of oil, gas-condensate, and wet-gas testing, separator gas samples are matched with an oil or condensate sample collected under identical separator conditions for physical recombination at the PVT laboratory.

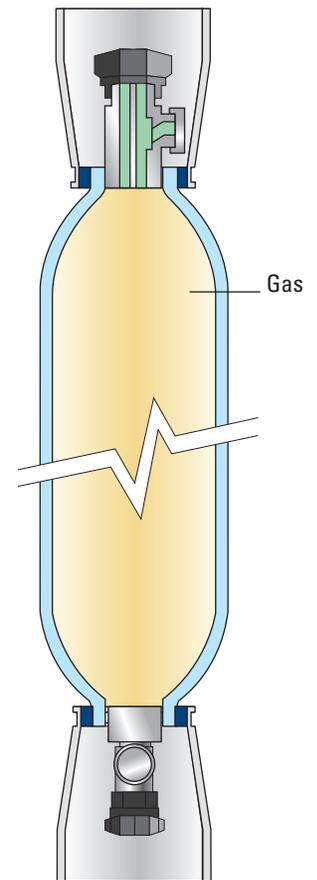
The large-volume capacity ensures the storage of sufficient gas from a single sample for a complete PVT recombination study under most separator conditions. The vacuum-filled bottle is fully evacuated before transporting to the sampling site. The fully evacuated bottle is purged, and samples are allowed to fill to line or separator pressure.

The GSB is made from aluminum for strength, corrosion resistance, and metal fatigue resistance. The bottle's weldless design allows for easy inspection and simple maintenance. It is also 40% lighter than comparable steel cylinders, making it easy to handle and less costly to transport.

Specifications

Size, galUS [L]	5.283 [20]
Length, [†] in [m]	48 [1.23]
Width, [†] in [m]	13 [0.32]
Height, [†] in [m]	12 [0.30]
Weight, [†] lbm [kg]	71 [32]
Max. OD, in [mm]	13 [330]
Sample capacity, in ³ [cm ³]	1,220 [20,000]
Test pressure, psi [MPa]	4,350 [30]
Working pressure, psi [MPa]	2,900 [20]
Working temperature, degF [degC]	212 [100]
Material of construction	Aluminum alloy
Service	H ₂ S
Design code	US DOT, TC, TPED
Certifying authority	Bureau Veritas

[†] Boxed weight and dimensions



Gas sample bottle.