

Conventional Sample Bottle

Samples, transports, and stores oil, condensate, and water samples

APPLICATIONS

- Fluid sampling for routine PVT and compositional analysis
- Oil, condensate, and water sampling

BENEFITS

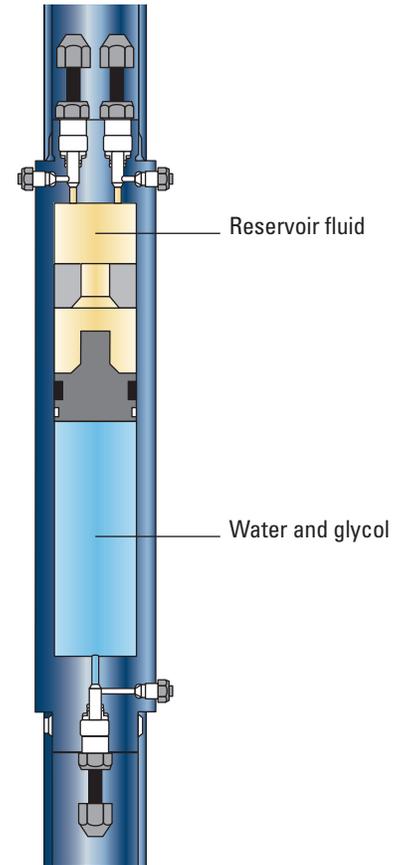
- Superior valve control
- Minimal dead volume
- Safer operation

FEATURES

- US Department of Transportation (DOT), Transport Canada (TC), and Transportable Pressure Equipment Directive (TPED) approved
- Design per NACE MR0175 standard
- Positive displacement operation
- Agitation ring sample mixer
- Mercury-free operation
- End-cap valve safety protection
- Custom-designed shipping box
- Dangerous goods shipping labels
- Chain-of-custody reservoir-sample tracking using the Schlumberger global Web-based sampling and analysis information management system

The conventional sample bottle (CSB) is a HPHT-rated sample cylinder used for the transfer of samples from downhole reservoir fluid samplers or from the wellhead and well test separator during production testing operations. Oil or condensate samples transported and stored in the CSB are depressurized to below bubblepoint to create a natural gas cap for safer shipping and are subsequently restored to pressure and temperature in the laboratory for routine PVT analysis.

The CSB design offers controlled, uncontaminated PVT sampling and transfer without sample flashing. Valves can be operated without removing protective caps, improving safety. Valves are incorporated into the end caps and are equipped with a nonrotating valve tip for repeatable low-torque, high-pressure sealing. Inset valves, matching pistons, and agitation rings keep dead volume at less than 0.5% of the sample volume.



Conventional sample bottle design.

Specifications

CSB	15,000 psi	20,000 psi
Length, in [m]	27 [0.61]	49.3 [1.25]
Weight boxed, lbm [kg]	55 [25]	124 [56] [†]
Max. OD, in [mm]	3.25 [83]	3.69 [94]
Sample capacity, in ³ [cm ³]	37 [600]	122 [2,000]
Test pressure, psi [MPa]	22,500 [155]	30,000 [207]
Working pressure, psi [MPa]	15,000 [103]	20,000 [138]
Working temperature, degF [degC]	392 [200]	392 [200]
Material	17/4 pH stainless steel	17/4 pH stainless steel
Service	Sour	Sour
Design code	US DOT, TC, TPED, NACE MR0175	US DOT, TC, TPED, NACE MR0175
Certifying authority	Bureau Vertitas and Authorized Testing, Inc.	Bureau Vertitas and Authorized Testing, Inc.

[†] Weight with single-phase multisample chamber: 148 lbm [67 kg]