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.