

Piston Type Sample Cylinder OPC^{*)}



Picture Courtesy of the Petroleum Engineering Department
at the Colorado School of Mines, Golden, CO USA



Sampling

The Piston Type Sample Cylinder OPC one phase is a shipping bottle designed to transport and store pressurized samples, especially hydrocarbon samples maintaining the sample in one phase.

^{*)} Product cannot be sold to customers within the United Kingdom

Description

The Piston Type Sample Cylinder OPC^{*)} is a shipping bottle designed to transport and store pressurized samples, especially hydrocarbon samples maintaining the sample in one phase.

To separate the sample fluid from a secondary driving fluid the bottle is equipped with a floating piston. A mixing ball is also incorporated in the bottle. The bottle is designed with a minimum of dead volume.

The two end caps are sealed with double O-ring seals and back-up rings. The piston has a single O-ring seal and a wear ring and is designed to minimize friction and reduce pressure load. The bottle is equipped with right angle needle valves with ¼" NPT female port connections on both sides. On the sample side there is also an evacuation port nipple and plug.

The non-sample end cap contains a reservoir, which can be filled with compressed gas (e.g. Nitrogen). After completion of the transfer process a valve can be opened allowing the gas to act on the piston from the non-sample side, keeping the sample under pressure and, thus, maintaining it in one phase.

The bottle is further equipped with protectors on both ends for protecting valves and threads during handling and transportation. A fiber glass or aluminum transportation box is available.

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Technical Specifications

Capacity (nominal)	: 600 ccm standard, other capacities are available
Volume	: 700 ccm
Weight	: 23 kg 50.7 lbs
Material	: stainless steel, resistant to H ₂ S and CO ₂
Operating pressure	: 690 bar 10,000 psi standard, or 1034 bar 15,000 psi
Operating temperature	: -20 °C to 150 °C -4 °F to 300 °F
Certificates	: Hydrostatic Certificate, PED on request

Design

