

Piston Type Sample Cylinder PDC



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



Sampling

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Description

The Piston Type Sample Cylinder PDC is a shipping bottle designed to transport and store pressurized samples, especially hydrocarbon samples.

To separate the sample fluid from a secondary driving fluid, the bottles are equipped with a floating piston. A mixing ball is also incorporated in the bottles. The bottles are 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 bottles are 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 bottles are 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.

Technical Specifications

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|-----------------------|--|
| Capacity (nominal) | : 600 ccm standard, other capacities are available |
| Volume | : 700 ccm |
| Weight | : 17.5 kg 38.6 lbs |
| Material | : stainless steel, resistant to H ₂ S and CO ₂ |
| Operating pressure | : 689 bar 10,000 psi standard, or 1034 bar 15,000 psi |
| Operating temperature | : -20 °C to 150 °C -4 °F to 300 °F |
| Certificates | : up to 10,000 psi: UN Approval, TPED & Hydrostatic Certificate up to 15,000 psi: Hydrostatic Certificate, PED on request |

Design

