

## Pressure compensated sampler (PCS) non-corrosive

Expro's Petrotech PCS is a single-phase bottomhole sampling tool with a pressure compensation system to keep the sample in monophasic condition from the reservoir to the surface. The tool can be run on slick-line, electric-line, carrier or coiled tubing. Individual clocks of 10, 24, 54 and 90 hours duration enable each sample to be taken after a suitable delay interval.

### Technical Specification:

Length	13'8"/4.16 m
Weight	84 lbs/38 kg
Working Pressure	15,000 psi
Working Temperature	180°C
Sample Capacity	540 cc
Maximum OD	1.75"/44 mm
Material	Inconel
Test pressure	22,500 psi
Design code	ASME VIII
Max Time Delay	90 hours
Certified by	DNV

### Features:

#### Non-corrosive

The PCS provides service in the most demanding wells in the world containing extreme H<sub>2</sub>S levels.

#### Positive displacement operation

A slow positive displacement of the floating piston ensures no pressure differential across the sample entry ports.

#### No recombination required

As the sample is in single phase at surface, no lengthy sample transfer is required.

### Applications:

Single phase reservoir sampling has widely been accepted as the industry standard for reservoir PVT sampling, asphaltene analysis and Water studies, ie pH measurement. In addition the sampler may also have applications in Gas condensate fields where it is particularly important to obtain samples above dewpoint.

### Benefits:

#### Non-corrosive

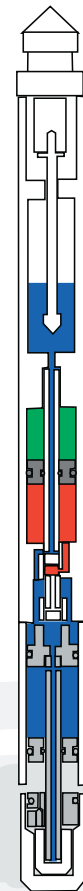
The Non-corrosive design provides almost no H<sub>2</sub>S loss in the sample due to H<sub>2</sub>S corrosion in the sample chamber.

#### No Phase change during retrieval

Unlike conventional dual phase samplers the PCS maintains the sample in single phase all the way to the surface.

#### Fast Sample Transfers

With no requirement for sample recombination transfer is performed rapidly and with the minimum possibility of errors.



- Nitrogen cushion
- Power fluid
- Back-up fluid
- Reservoir fluid