

Wireline Fluid Sampling Tool

Qteq's Downhole Fluid Sampling Tool (DFST) is used to obtain in-situ samples of produced fluid. The tool is deployed on wireline in the closed position, with the sample chamber initially air filled at atmospheric pressure. A trigger on a surface control unit attached to the wireline is used to actuate a motorized orifice in the DFST.

By reversing electrical polarity, the orifice is driven from the closed to open position, allowing wellbore fluid to flood the sample chamber. Reversing electrical polarity again to the solenoid valve drives it back to the closed position, trapping a fluid sample in the chamber at the prevailing pressure.

When the DFST has been retrieved to surface the solenoid valve is once more set to the open position to bleed off sample pressure to atmospheric. The sample is then recovered by removing the sub at bottom of the tool.



Applications

- Capture bottom hole fluid samples in non-producing wells or boreholes.
- Capture bottom hole fluid samples in wells requiring artificial lift.

Features and Benefits

- Simple assembly and operation
- Simple actuation
- Simple sample transfer procedure
- Large sample volume
- Reliable
- Minimal internal parts

Specifications

Pressure rating	3,000psi
Temperature rating	150°C
Metallurgy	316 Stainless Steel
Outside Diameter	Type 1: 1.250" Type 2: 2.125"
Length	2m
Sample Volume	Type 1: 1L Type 2: 2L