



Single-phase reservoir sampler (SRS) - 10K

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 tools can be run on slickline, wireline, electric line or coiled tubing. Individual clocks of 24, 54 and 90 hour duration enable each sample to be taken after a suitable delay interval.

Technical Specification:

Length	13'9"/4.19m
Weight	77 lbs/35 kg
Working Pressure	10,000 psi
Working Temperature	*250 degF / 121 degC
Sample Capacity	37 cu. in/600cc
Maximum OD	1.75"/0.044m
Material	17-4 PH
Test pressure	*15,000 psi
Design code	API 6A
Max Time Delay	90 hours
Certified by	Bureau Veritas

* Note: Higher on request

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.

Features:

Mercury Free

No mercury is required at any stage of the sampling or sample transfer.

Positive displacement operation

Sample entry into the chamber is controlled by the slow positive displacement of the floating piston which creates no pressure differential, thereby avoiding sampling flashing.

No recombination required

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

Benefits:

Reliability

The tool has been run on over 2,500 occasions under varying and hostile conditions, the success rate is currently in excess of 95%.

No Phase change during retrieval

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

Fast Sample Transfers

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

