

# Single-Phase Reservoir Sampler

Advanced sampling system for all downhole applications

## APPLICATIONS

- All subsurface sampling operations requiring unaltered, uncontaminated single-phase samples
- Flow assurance studies
- Aquifer pH studies

## BENEFITS

- Reliable operation
- Fast sample transfer

## FEATURES

- Single-phase pressure compensation
- Positive displacement operation
- Mercury-free operation
- No recombination necessary
- No sample flashing during sampling
- Sample retrieval without phase change

The single-phase reservoir sampler (SRS) is a specialized system for all subsurface sampling applications. The SRS design maintains the sample in a single-phase condition above reservoir pressure as the tool is retrieved from the hole.

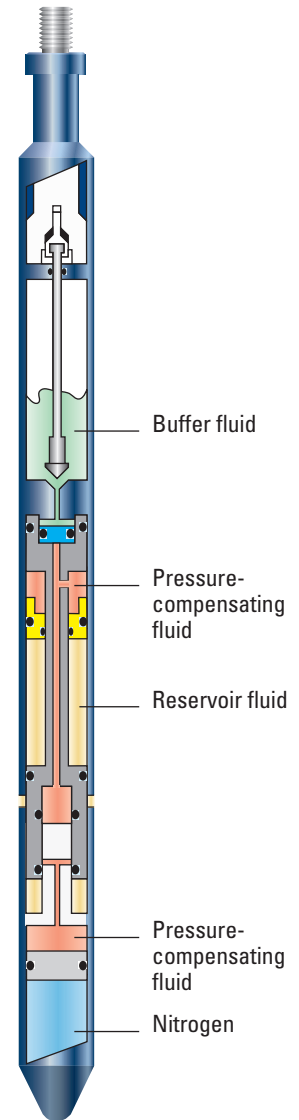
This technology provides truly representative samples and is essential for measurements requiring samples in unaltered condition, such as pressurized pH measurements in formation water or asphaltene deposition analysis in oil.

The SRS allows controlled, uncontaminated reservoir sampling without sample flashing. The unaltered sample is retrieved at the surface in single-phase state, requiring no recombination before transfer. Without the necessity of sample recombination, the sample transfer takes minutes instead of hours.

This mercury-free, pressure-compensating bottomhole sampling tool can be run in strings of up to eight tools on slickline, wireline, electric line, coiled tubing, or sucker pump rods. Each tool has its own programmable timer, allowing complete flexibility in deciding when, and at what depth, each individual tool in the string takes a sample.

## Technical Specifications

	SRS	SRS with Inconel® 725
Length, ft [m]	13.5 [4.1]	13.5 [4.1]
Weight, lbm [kg]	77 [35]	77 [35]
Max. OD, in [mm]	1.75 [44]	1.75 [44]
Sample capacity, in <sup>3</sup> [cm <sup>3</sup> ]	37 [600]	37 [600]
Test pressure, psi [mPa]	22,500 [155]	22,500 [155]
Working pressure, psi [mPa]	15,000 [103]	15,000 [103]
Working temperature, degF [degC]	392 [200]	410 [210]
Max. time delay, d	7	7
Service	Sour	Extreme sour
Design code	API 6A	API 6A, NACE MR0175
Certifying authority	Bureau Veritas	Bureau Veritas



Single-phase reservoir sampler.