The SPS-15 sampler is manufactured to operate in normal or hostile cased hole environments. The sampler utilizes a triggering section, a positive displacement sample chamber and a nitrogen section to ensure that the reservoir fluids captured in the sample chamber never fall below reservoir pressure.

Each SPS-15 has a sample volume of 600 cm$^3$ (36.6 in.$^3$) and multiple SPS-15 samplers can be run in tandem. Single-phase downhole sampling is essential for obtaining representative fluid samples and provides valuable information regarding the asphaltene content of the reservoir. Recovery pressures of over 10,000 psi (689 bar) are obtainable for black oil.

The samplers are triggered by either mechanical clocks or electronically from surface when running on electric line. When the timer completes its countdown or the electronic trigger is activated, sampling of the reservoir fluid begins. After the sampler is filled, the high-pressure nitrogen is released, which overpressurizes the reservoir fluid and maintains a single-phase sample during the recovery to surface.

Samples are transferred at surface, without the use of mercury into single-phase sample cylinders. If only dual-phase downhole samplers are required, the SPS-15 can be run in PDS mode, which eliminates the need for the nitrogen section and results in a shorter tool length.

**Features**
- Samples in reservoir conditions up to 15,000 psi and 350°F
- Ideal for single-phase sampling or PVT analysis and flow assurance studies (asphaltenes, resins, and wax)
- Triggered by mechanical clocks or e-line triggered from surface
- 1-11/16 in. (43 mm) maximum diameter
- Ability to run on slickline, electric line, or coiled tubing
- Single or multiple tools can be run in a tool string

**Benefits**
- Proven sampler technology
- Rugged construction
- Lloyds register design approval
### SPS-15 Slickline/e-line Sampler Specifications

<table>
<thead>
<tr>
<th>Assembly Length in. (cm)</th>
<th>Diameter in. (cm)</th>
<th>Assembly Weight lb (kg)</th>
<th>Maximum Temperature °F (°C)</th>
<th>Maximum Sampling Pressure psi (bar)</th>
<th>Maximum N₂ Charge psi (bar)</th>
<th>Sample Volume SPS-15 in.³ (cm³)</th>
<th>Thread Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>199 (505)</td>
<td>1.69 (4.3)</td>
<td>75 (34)</td>
<td>350 (177)</td>
<td>15,000 (1034)</td>
<td>12,000 (865)</td>
<td>36.6 (600)</td>
<td>15/16-10 UNS Pin × Pin</td>
</tr>
</tbody>
</table>

For more information on Fluid Sampling, please call your local Halliburton representative or e-mail us at welltesting@halliburton.com.