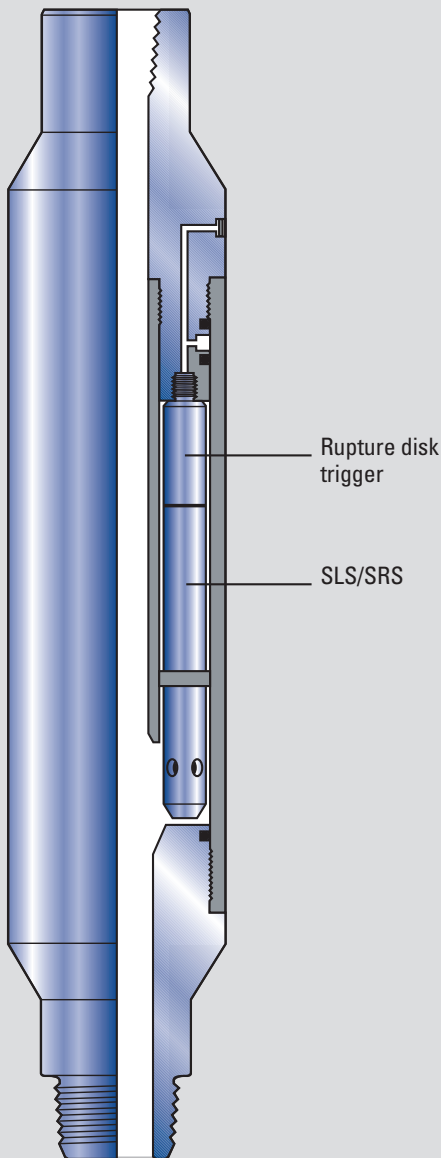


# Sample Carrier for Single-Phase Bottomhole Samplers

**Schlumberger**

*A tool for DST conveyed single-phase bottomhole sampling.*



The Oilphase-DBR\* SCAR series sample carriers for single-phase reservoir (SRS) and slimline (SLS) samplers are run with the drillstem test (DST) string when well testing. SCAR carriers allow high-quality pressure-volume-temperature (PVT) samples to be obtained even when running wireline would not be cost effective, practical, or safe. By eliminating the need for wireline intervention, the SCAR can provide potential rig time savings between 8 and 24 h during an offshore bottomhole sampling program.

The sampler carrier features a full bore and is concentric both on the outside and inside dimensions to ensure smooth running. A unique feature of the SCAR technology allows for configurations of up to 10 single-phase reservoir fluid samplers to be run in one carrier, depending on the application.

## **Annular pressure or IFSM sampler module activation capability**

The samplers are activated by application of annulus pressure, allowing samples to be taken at any time during the flow period. A single rupture disc can activate all samplers simultaneously, or each sampler can have its own rupture disc trigger for selective firing. The rupture discs are set at an annulus pressure operating range between the tester valve and the reversing valve.

Another activation method is the IRIS\* Fired Sampling Mechanism (IFSM) sampler module featuring IRIS Intelligent Remote Implementation System technology, which uses pressure pulses in the annulus to activate the samplers. Under certain conditions, the annulus pressure calculations may indicate that close proximity makes using rupture discs impossible. In such cases, the IFSM method allows for complete flexibility in sampler activation.

## **Applications**

- When wireline is not cost effective, practical, or safe
- High-pressure, high-temperature (HPHT) wells
- Heavy oil wells
- Sour wells
- Deepwater
- Reservoirs close to saturation pressure

## **Benefits**

- Saves rig time
- Cost effective
- Multiple sampling capabilities

## **Features**

- Annulus pressure activated
- Sampling during different flow periods
- Concentric inside and outside diameters (ID and OD)
- Sampling capability in 9<sup>5</sup>/<sub>8</sub>- or 7<sup>5</sup>/<sub>8</sub>-in casing
- Annular pressure or IFSM sampler module activation

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**Specifications**

Carrier	SCAR-A	SCAR-B	SCAR-C	SCAR-H
Sampler	SRS	SLS	SLS	SLS
Length, m [ft]	6.86 [22.5]	5.7 [18.8]	5.7 [18.8]	6.58 [21.6]
Max. OD, cm [in]	19.7 [7.75]	14 [5.5]	13.3 [5.25]	19.7 [7.75]
Max. ID, cm [in]	5.7 [2.25]	5.7 [2.25]	5.7 [2.25]	8.99 [3.5]
Fishing neck, cm [in]	12.7 [5]	12.7 [5]	12.7 [5]	12.7 [5]
Pressure rating, MPa [psi]	69 [10,000]	103 [15,000]	69 [10,000]	69 [10,000]
Tensile load rating, daN [lbf]	156,000 [350,000]	156,000 [350,000]	156,000 [350,000]	156,000 [350,000]
Temperature, degC [degF]	177 [350]	177 [350]	177 [350]	177 [350]
Service	Sour	Sour	Sour	Sour
Number of samplers	Up to 6	Up to 8	Up to 8	Up to 10
Max. sample volume, L [galUS]	3.6 [0.951]	2.4 [0.634]	2.4 [0.634]	3 [0.792]
Connections	3.5-in IF or PH-6	3.5-in IF or PH-6	3.5-in IF or PH-6	4.5-in IF or PH-6