SCILS

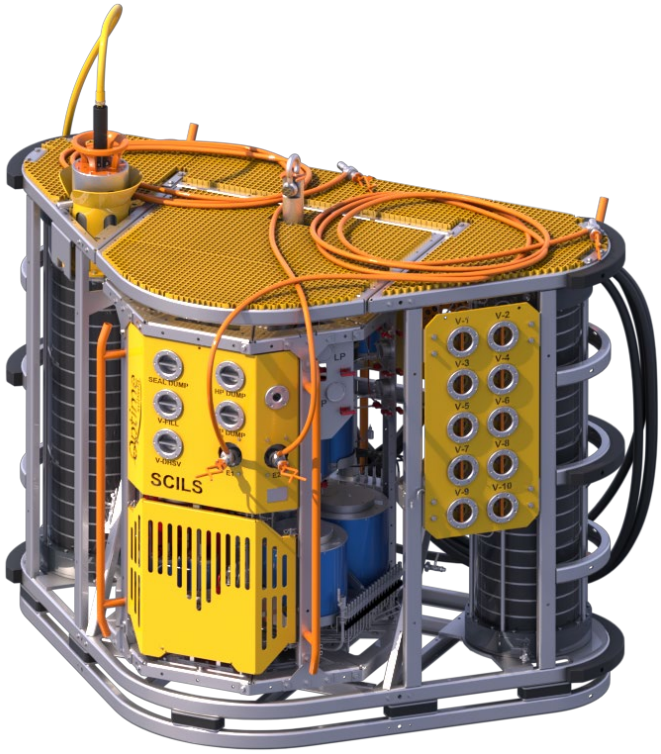
Subsea Controls & Intervention Light System

SIMPLIFIED WELL ACCESS, WELL INTERVENTIONS AND WORKOVER OPERATIONS FROM ANY TYPE OF VESSEL

OVERVIEW

Halliburton in alliance with Optime Subsea ASA, are proudly offering the SCILS, Subsea Controls and Intervention Light System, an industry first, field proven closed-loop subsea controls unit complete with redundant subsea pumps, control modules and a hydraulic reservoir. The SCILS is a modular and cost-efficient subsea access device for well interventions and workover systems, perfectly suited to provide Intervention Workover Control (IWOC) services during initial subsea Production Xmas Tree (XT) commissioning, Interventions or Plug and Abandonment (P&A) operations. The XT interface is universal and can be configured offshore to connect to any type of XT. The SCILS has proven to deliver unequalled efficiencies, reduced footprint, increased safety while minimizing personnel on board (POB).

Compared to other IWOC, controls and intervention systems, the additional applications for a SCILS are numerous. SCILS can provide much needed well control as a subsea hydraulic pressure unit (HPU) back up for XT control during remediation or long-term replacement applications, in the event of damaged control umbilicals or SEMs. SCILS may also be used to control Light Well Intervention Systems, BOP systems or simply act as a universal tool for evaluating and monitoring XT's prior to using the SCILS for potential commissioning or decommissioning. SCILS is flexible enough to be run from service vessels or rigs. It can be temporarily deployed or permanently installed without any modification or interfaces. Keep your wells flowing with quick response from Halliburton and Optime.



FEATURES

- Simple rig interface, deployed from rig equipment
- Integrates with 10K or 15K equipment
- Minimal tether (1"-1.5") provides twisted pair and fiber-optic line
- Compact, modular reconfigurable design
- No dedicated ROV required
- 10,000 ft (3000 m) water depth rated
- Double block shut-in system
- Seal test lines with logging charts
- Run on all control fluids with scalable reservoirs
- Designed per ISO 13628-7, NORSOK

BENEFITS

- Very quick mobilization / demobilization
- Minimum of rig/vessel interfaces
- Simple and automated SIT and deck testing
- Adaptable to past, current and future subsea XTs
- Full redundant electrical controls
- Minimizes operations HSE risk
- Limited topside footprint and personnel required to operate
- Easily adaptability to customer-specific requirements
- Built on field-proven technology platform with qualified components
- Real-time, design-of-service, digital validation testing

SCILS control module specifications

Applicable Standards		
API STD 17G	**Design and Manufacture of Subsea Well Intervention Equipment**	**Design and Quality Assurance**
Operating Limits		
Maximum Working Pressure psi (bar)	10,000 (690)	15,000 psi (1,034 bar)
Maximum Test Pressure psi (bar)	15,000 (1,034)	22,500 psi (1,551 bar)
Maximum Control Output Pressure psi (bar)	10,000 (862)	15,000 psi (1,034 bar)
Service Temperature, °F (°C)	35 to 250°F (2 to 121°C)	35 to 250°F (2 to 121°C)
Output Lines	21	21
Chemical Injection Line	1	1
Pump Rate, 5,000 psi, gpm (lpm)	0.8 (3)	0.8 (3)
Pump Rate, 10,000 psi, gpm (lpm)	0.4 (1.5)	0.4 (1.5)
Pump Rate, 15,000 psi, gpm (lpm)	0.26 (1)	0.26 (1)
Physicals		
Overall Dimensions ft (m)	10 x 10 x 8 (3 x 3 x 2.44)	10 x 10 x 8 (3.0 x 3.0 x 2.44)
Umbilical Diameter in (cm)	1.5 (3.7)	1.5 (3.7)
Approximate Weight lb (kg)	15,432 (7,000)	15,432 (7,000)

Notes:
» These ratings are guidelines only. Refer to the equipment data book for individual equipment specifications.

For more information, contact your local Halliburton representativeor visit us on the web at www.halliburton.com