

// Subsea Intervention Lubricator

Cost-effective, riserless well access



Maximum working pressure:
10,000 psi [69 MPa]



Maximum operating depth:
Up to 3,000 m [10,000 ft]

Applications

The Subsea Services Alliance subsea intervention lubricator (SIL) enables efficient and cost-effective riserless intervention or abandonment for all subsea wells in water depths up to 3,000 m. This diverless system is available in two versions, having wireline capability to 1,500 m [5,000 ft] or 3,000 m.

It is designed for single-trip deployment of the well access package and toolstrings up to 22 m long, providing excellent tractor and conveyance options in high-deviation wells and accommodating long perforating strings. The 7³/₈-in system enables access to large-bore subsea assets.

How it improves well operations

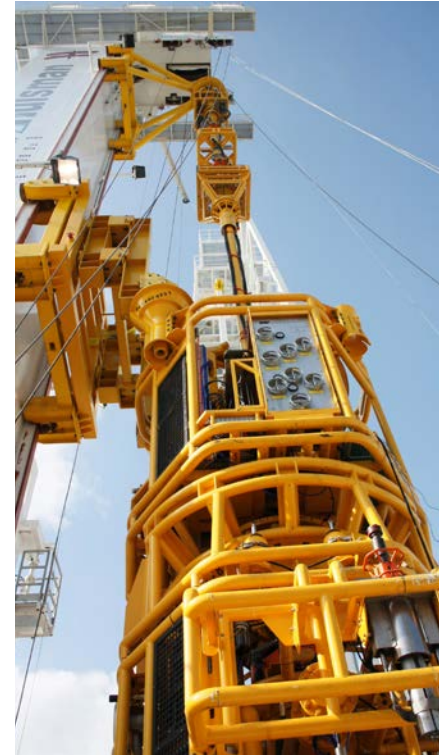
SILs provide a potential savings of 40%–60% compared with using a drilling rig by greatly reducing mobilization time for operations such as wireline logging, perforating, zone isolation, plug setting and removal, and decommissioning. They expand the cost-saving capabilities of light well intervention into deeper waters.

Subsea Intervention Lubricator Specifications

Through bore	7 ³ / ₈ in
Lubricator riser	Modular design, supporting up to 22-m-long wireline toolstring (vessel dependent)
Hydraulic latch	7 ³ / ₈ in, 10,000 psi, integrated with wire-cutting ball valve
Wire-cutting ball valve	7 ³ / ₈ in, 10,000 psi, NORSOK standard D-002 compliant
BOP	7 ³ / ₈ -in, 10,000-psi-working-pressure dual wireline BOP with inverted ram for contingency operations
Grease assembly	10,000-psi-working-pressure subsea grease assembly combined with redundant subsea storage with recharge capability via umbilical or ROV
Hydraulic EDP [†] connector	13 ³ / ₈ in, 10,000 psi
ROV override panel	For contingency functioning of critical wellbore operations
Kill line (optional)	2-in line with decommissioning return line capability
Dual redundant multiplex (MUX) control system	With fiber-optic primary and secondary control incorporated into a <ul style="list-style-type: none"> – single umbilical in the 1,500-m SIL – single main umbilical and project-specific auxiliary umbilical in the 3,000-m system
Dedicated emergency shutdown system	Independent of MUX controls
Safety head (optional)	7 ³ / ₈ in, 10,000-psi working pressure, NORSOK standard D-010 compliant
Compatibility	Suitable for all subsea trees and wellhead connections

All specifications are subject to change without notice.

[†]Emergency disconnect package



Subsea intervention lubricator.

Additional information

A single umbilical in the 1,500-m system and a main and project-specific auxiliary umbilical in the 3,000-m SIL provide a fully redundant electrohydraulic control system, ensuring superior reliability. The control system is integrated with the hydraulic pressure generation and distribution systems topside as well as with the subsea system and third-party subsea trees.