

SID System overview

The Subsea Intervention Device (SID) is designed to allow rigless intervention into live or abandoned subsea wells. The SID provides access to the wells for subsea wireline operations.

This economical, modular and lightweight system enables faster, more convenient access to the well bore for data acquisition, safety valve remedial work, well intervention, maintenance and repair.

The Well Ops SEA SID system makes scheduled & emergency subsea well intervention immediately practical. It can significantly reduce the risk of production deferment, facilitate improved recovery rates by being used for planned data acquisition and emergency well maintenance

Coupled with the proprietary VDS Vessel Deployment System, SID can be used from a range of work vessels of opportunity and does not require a rig or specialist vessel.

Applications

Permits rigless intervention into subsea wells for:-

- Production logging using memory logging tools
- Well diagnostics
- Gaslift change out
- Production, well performance and reservoir optimisation
- Re-perforating operations

Features

7 ³/₈" Clear bore

5000 psi rating

H₂S service

Accommodates 39' tool strings (upgradeable)

Full subsea well control capability

DNV certified to API requirements

Benefits

Significantly lower costs.

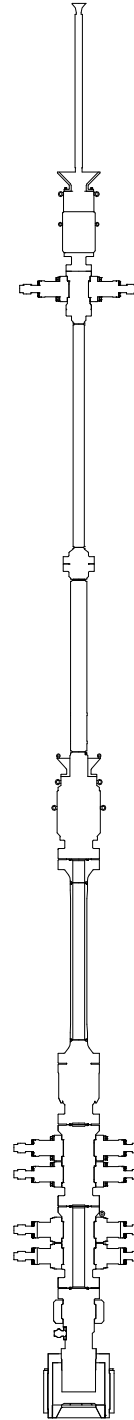
Deployable from a vessel of opportunity (nominally 65m OSV)

No hydrocarbons brought back to the vessel

Faster task completion with less downtime

Rapid mobilisation and deployment using a vessel of opportunity

Diverless operation



SID – Subsea Intervention Device

SID System Overview

Technical Specification

Clear bore diameter	7 3/8" [187mm]
Tool String Length (Max)	39' [11.9m]
Wire diameter	1/8" [3.175mm] slick line 5/16" [7.938mm] electric line
Working Pressure (max)	5000 psi [344.7bar]
Safety Pressure Lock	Engages at 150 psi internal pressure
Mass	25 tonnes approx.
Transport Mass	35 tonnes approx.
Component Skids (9off):	Stuffing Box Assembly Upper Single BOP Upper Lubricator Mid Connector Lower Lubricator Tool Trap Lower Quad (2x Dual) BOP Bore Selector Connector

Certification

DNV Certified to comply with API requirements

Lifting	APPEA compliant DNV CN 2.7.1
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Note: Hybrid SID shown for illustrative purposes only.

SID – Subsea Intervention Device

Subsea Wireline Stuffing Box Assembly

The Subsea Wireline Stuffing Box Assembly is designed specifically for subsea use and provides pressure control for wireline operations run through open water.

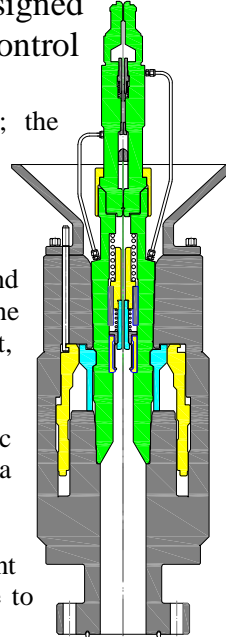
The stuffing box assembly consists of 4 main components; the Hydraulic stuffing box, chemical injection sub, toolcatcher and the hydraulic latch connector. All components are hydraulically controlled from the surface.

The **Subsea Hydraulic Tool Catcher** is designed to engage and capture the rope socket of any tool string that collides with the stuffing box and strips the wireline from within the rope socket, thus preventing the tool string from falling down hole.

The **Subsea Upper Hydraulic Latch Assembly** is a hydraulic controlled inverted connector which houses and latches the subsea stuffing box and tool catcher assembly subsea.

The **Stuffing Box** provides pressure control at the wire entry point into the SID. The packing is hydraulically controlled at surface to increase packing pressure as required.

The **Chemical Injection Sub** provides the ability to inject inhibitors or other chemicals into the wire path.



SID – Subsea Intervention Device

Applications

Subsea wire line and well intervention.

Features

Benefits

Subsea Hydraulic Stuffing Box	Allows subsea wireline entry to a live subsea well.
Tool Catcher	Prevents tool string falling down hole if the tool string collides with stuffing box.
Upper Hydraulic Latch Assembly	Provides subsea entry to the lubricator for wireline tooling by allowing subsea release of the Stuffing Box and Tool Catcher Assembly.
Blow Out Plug	Prevents hydrocarbon / pressure release in the event of wire failure.
Safety Pressure Lock	Prevents release of the Stuffing Box / Tool Catcher Assembly when well bore pressure is present.
Diverless Operation	

Subsea Wireline Stuffing Box Assembly

Technical Specification

Clear bore diameter	5 5/16" [135mm]
Outside Diameter	26" [660mm]
Height	74" [1865mm]
Working Pressure	5000 psi
Safety Pressure Lock	Engages at 150 psi internal pressure
Mass (tool only)	1.5 tonnes
Transport Mass	2.4 tonnes
Skid Length	1.85 metres
Skid Width	1.25 metres
Skid Height	2.60 metres
Rigging	Dedicated 4 leg sling set

Certification

DNV certified to comply with API requirements	
Lifting	APPEA compliant



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