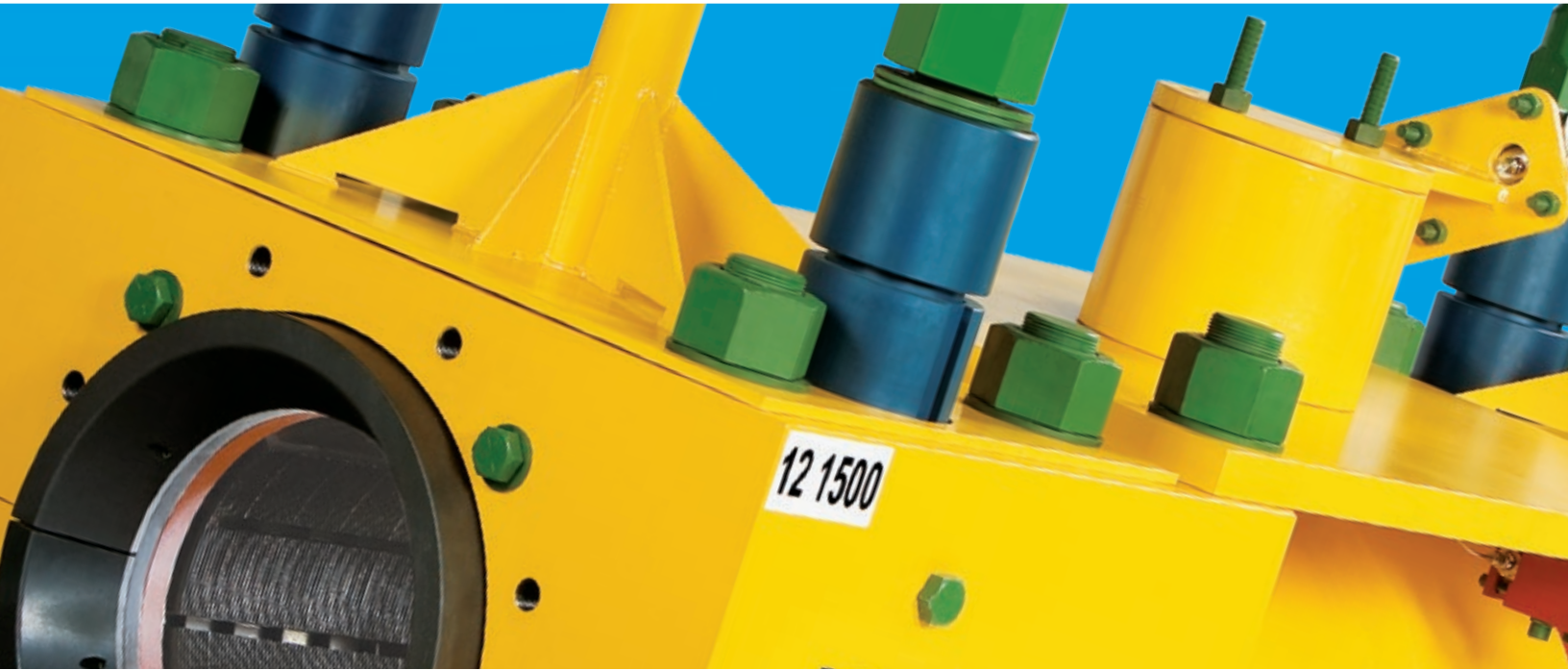




SUBSEA PIPELINE SYSTEMS

SureLock Diverless End Connector



SURELOCK DIVERLESS END CONNECTOR

Oil States SureLock Diverless End Connector (SLC) is designed to allow pipeline operators the ability to repair damaged pipelines in extreme water depths beyond conventional manned diving operations. The connector is designed for in-line repairs, eliminating the need for costly U-shaped type jumper connectors.

The SureLock Connector utilizes proven technologies such as dual-barrier Viton sealing, structural attachment collet gripping system and the ability to verify sealing via annulus testing port.

A vertically positioned running tool actuates the seals and grips simultaneously to increase the efficiency of the repair operation. The running tool is then retrieved for other projects and has interchangeability on the Oil States Diverless Repair Clamp.





SUBSEA PIPELINE SYSTEMS

SureLock Diverless End Connector

Key Benefits

- In-line repair connector eliminates costly jumper fabrication.
- Actuated with a unique recoverable running tool manipulated and powered by ROV.
- Dual-barrier Viton sealing system inboard of the collet to reduce the pressure envelope.
- Hydraulic pressure from the ROV activates dual torquing systems that tighten two integral bolts on the connector simultaneously, setting the grips and seals.
- Onboard annulus testing system to verify seal integrity.
- Running tool body spacers allow a single recoverable running tool system to work for multiple connector sizes. The running tool is also employed to activate the Oil States Diverless Repair Clamp.

Applications

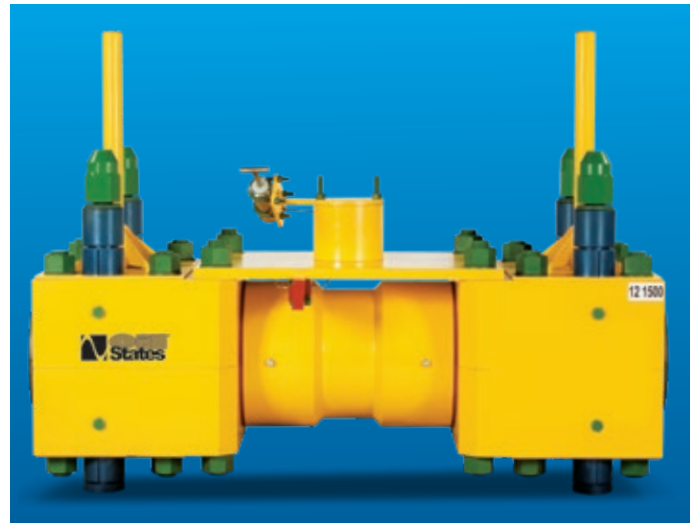
- Pipeline repair operations – shallow water, diver assist
- Pipeline new construction for future tie-in point - shallow water, diver assist

Services

- Engineering design
- Testing - FAT, SIT qualification
- Coatings
- Installation technical assistance

Oil States Subsea Pipeline Systems

Oil States' Houston-based Subsea Pipeline Systems division designs, manufactures and markets proprietary deepwater and shallow water pipeline connectors for subsea pipeline construction, repair and expansion projects.



ROV Operated Running Tool

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