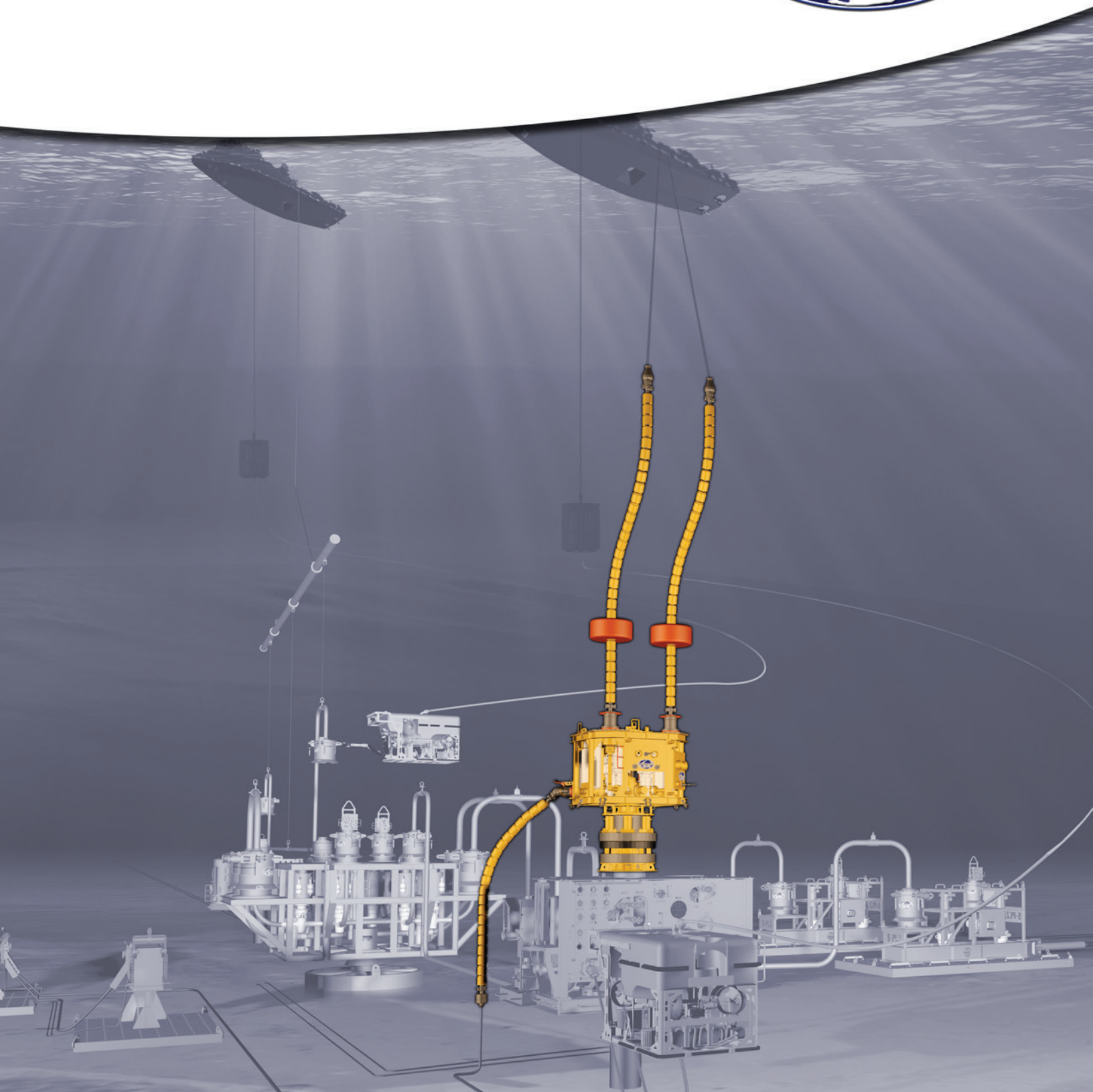


# SUBSEA STIM SYSTEM



## Leader in Contemporary Subsea Solutions

Trendsetter Engineering is a premier provider of specialty subsea equipment, manufacturing and fabrication services, and subsea engineering specialists to major and independent oil and gas companies across the globe.

# TRENDSETTER SUBSEA STIM SYSTEM

With the renewed focus on maximizing existing subsea field production through hydraulic interventions, Trendsetter identified the needs for a 15,000psi high flow system suitable for deployment from a vessel and capable of multiple interface configurations with subsea trees, manifolds and flowlines.

The STIM System is field proven in both acid stimulation and hydrate remediation applications. Designed first and foremost to provide regulatory compliant well control capabilities, the high flow/high pressure STIM System utilizes the latest in control system, production gate valve and subsea connector technology to deliver a bespoke fluid delivery system, allowing for safe and efficient well stimulation and field remediation operations.

The STIM system allows for up to three risers, typically coiled tubing, to be connected to the top of the manifold via Trendsetter’s proprietary TC2V connector system. The TC2V is an ROV operable hydraulic collect connector, which utilizes a metal-to-metal seal, Emergency Quick-Disconnect (EQD) functionality and integrated fluid retention valves to contain well fluids in the event of an emergency disconnect. Once fluid enters the manifold through the TC2V, fluid is able to pass through the manifold with great efficiency due to the full 2” piping and 2-1/16” production rated gate valves. Designed with well control as a priority, the unit provides dual functional barriers between the well and the environment. The modular design of the STIM manifold enables the system to easily interface with a variety of subsea trees and injection points without modification.

The key to operating the system with maximum reliability and up-time is the Trendsetter Sentinel, Trendsetter’s innovative control system. The Sentinel was designed specifically for intervention systems but utilizes quality components used in production systems to ensure robust operability. This EHMUX control system offers great flexibility to operate the system in various water depths and specific safety set points to ensure that emergency shutdowns are controlled and completed within a short duration.

The STIM system can be adapted to several riser technologies, vertical and horizontal trees and is suitable for most MSV and OCV vessels of opportunity, allowing for a cost effective solution for your subsea intervention programs, including acid stimulation and well flowback.

The Trendsetter STIM system is reliable and versatile solution for subsea hydraulic intervention scopes.

| Design Rating                     | Value              |
|-----------------------------------|--------------------|
| Design Code                       | API RP 17G         |
| Water Depth                       | 10,000 ft.         |
| Pressure Rating                   | 15,000 psi.        |
| Temperature Rating per API 6A/17D | U (0° F - 250° F ) |
| Material Trim per API 6A/17D      | EE                 |
| Flow Rate                         | ~ 10 - 15 BPM      |

