**OCS-H horizontal clamp connection system**

Reduces the total cost of ownership of subsea connection systems

**What it replaces**

Conventional connection systems with large, complex, and expensive installation or intervention tooling; elastomer secondary seals; and prolonged maintenance and storage requirements.

**Applications**

Shallow and deep water

**How it improves operations**

The clamp connection system’s ease of installation reduces the total cost of ownership. Suitable for multiple pipe sizes ranging from 4- to 32-in nominal pipe size (NPS), the OCS-H* horizontal clamp connection system features:

- compact design and reduced hub-to-hub distance to reduce weight and cost of structures
- minimal tie-in tooling, requiring only an ROV-operated torque tool and a stroking tool
- ROV fly-to-place tooling that enables the use of smaller vessels for intervention operations and eliminates the use of downline
- proprietary dual-metal gasket (DMG) to provide a metal-to-metal secondary barrier delivering reliable sealing technology
- wet-parking capability of jumper for host structure retrieval
- modular design for independent retrievability of components that can be reused across multiple connections
- backseat-testing capability.

**How it works**

The inboard receiver structure is mounted to the subsea host structure. The outboard receiver connector is mounted to the end termination of either rigid or flexible jumpers and subsea flowlines.

**OCS-H Horizontal Clamp Connection System Specifications**

<table>
<thead>
<tr>
<th>Water depth</th>
<th>Up to 10,000 ft [3,048 m]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>–20 to 305 degF [–29 to 151 degC]</td>
</tr>
<tr>
<td>Pressure</td>
<td>Up to 15,000 psi [103 MPa]</td>
</tr>
<tr>
<td>NPS</td>
<td>4 to 32 in</td>
</tr>
<tr>
<td>Sealing technology</td>
<td>DMG</td>
</tr>
<tr>
<td>Sealing internal diameter</td>
<td>Up to 30.125 in</td>
</tr>
<tr>
<td>Backseat-testing capability</td>
<td>Inboard ROV panel with isolation valve</td>
</tr>
<tr>
<td>Running tool type (clamp operations)</td>
<td>Class 7 torque tool</td>
</tr>
</tbody>
</table>

**What it replaces**

Conventional connection systems with large, complex, and expensive installation or intervention tooling; elastomer secondary seals; and prolonged maintenance and storage requirements.

**Additional information**

The OCS-H horizontal clamp connection system is smaller and lighter than conventional systems, making it faster to install with minimal operational sequences. The clamp connection system has a high structural capacity capable of accommodating a wide range of applications and has undergone an extensive qualification and verification testing program.

Configurations are available for monobore, multibore, rigid, flexible, and umbilical termination applications.

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