

Diverless Connection System - Vertical

Fast and reliable pipeline and flowline tie-ins

An ROV-operated clamp connector engages a patented Oceanengineering **Grayloc**[®] metal seal between male and female hubs to provide a robust, field-proven connection solution.



FEATURES

Single drive screw adaptable for ROV operations

Provides a field proven, reliable connection

No running tool required or hydraulics left on bottom

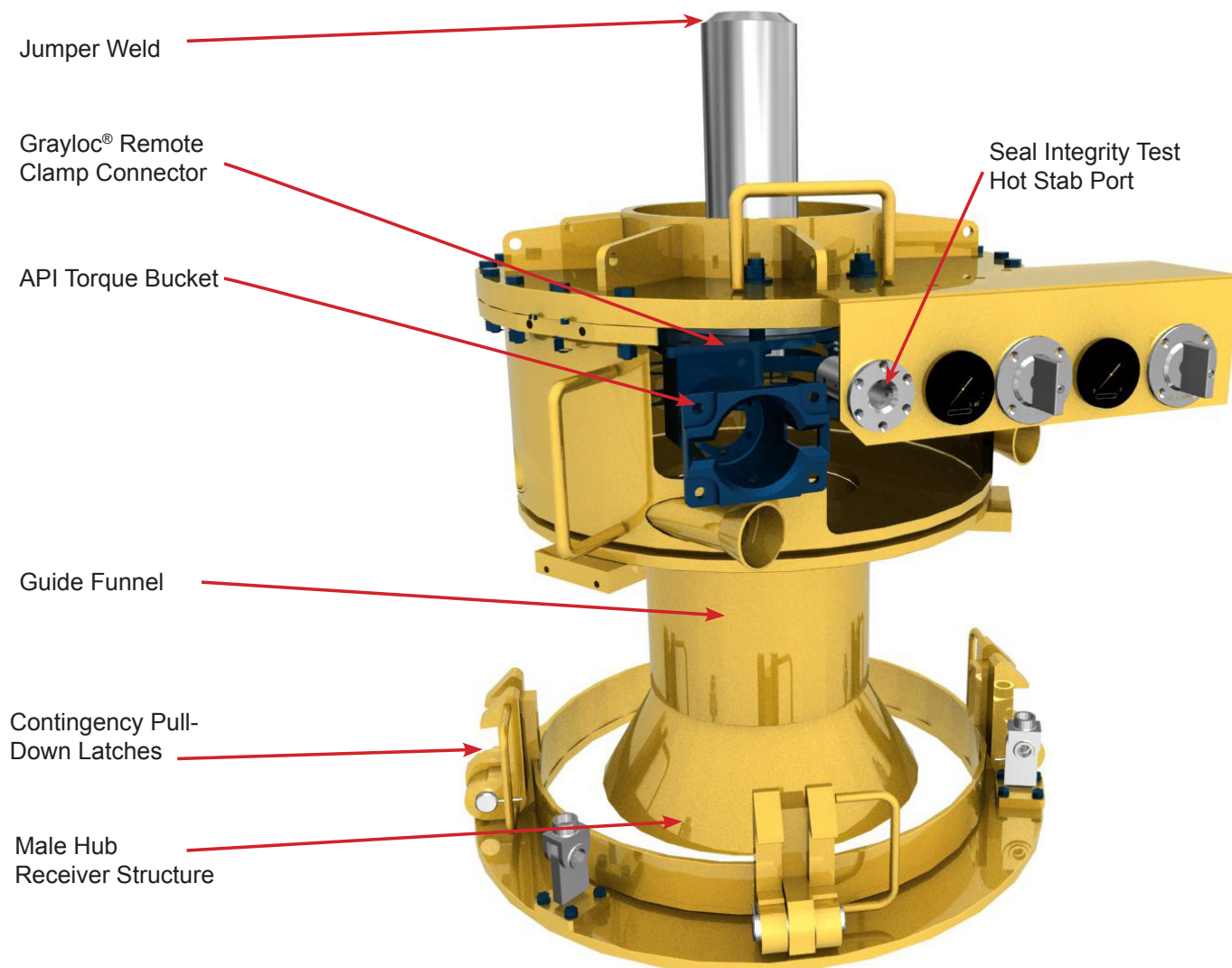
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The vertical connection system includes an **Oceaneering®** Grayloc® remote clamp connector with a single drive screw and standard API torque bucket. The clamp connector is engaged by using an industry standard ROV torque tool.

The jumper connector with the female hub retains a metal seal ring with the

assistance of a series of retainer blocks. Upon full make up of the clamp connector, an annulus test port is positioned on the backing plate of the connector to enable verification of the clamp's sealing integrity.

A simple, non-integral pull-in system is required for the installation of system and its recovery post-installation.



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