



RISER & DRILLING SYSTEMS

Managed Pressure Drilling

Managed Pressure Drilling (MPD)

Integration Joint for MPD Systems

Working alongside drilling contractors and operators, Oil States has gained a full understanding of their requirements and developed a product that addresses Today's market needs.

The Oil States designed Integration Joint is lighter, more compact, easier to handle and simpler to run and maintain than any other existing systems that is available. It offers a unique retrievable stripper sealing system in place of the large spherical strippers used on current MPD systems. The stripper packers can be retrieved to the surface through the telescopic joint without the need to pull the full integration joint. This offers significant time and cost savings. The stripper packer elements have been designed using Oil States' vast experience of designing, manufacturing and testing of elastomeric products.

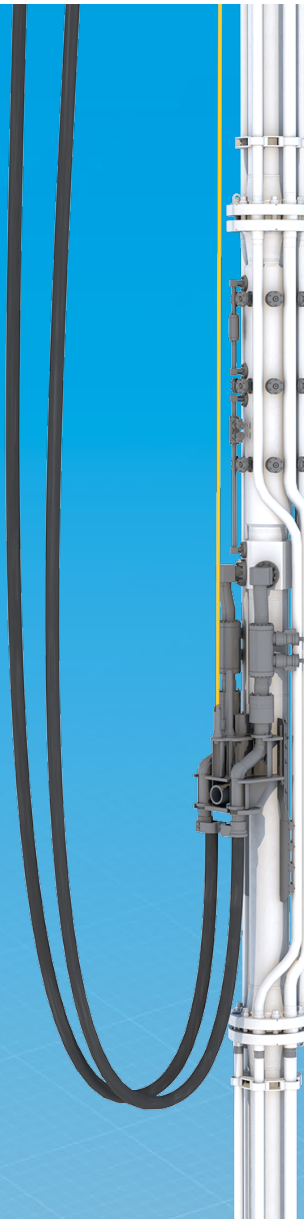
The Rotating Control Device (RCD) bearing assembly can be retrieved independently or collectively with the stripper packers. This reduces non-productive time and unnecessary trips. The RCD bearing assembly offers enhanced bearing and seal life and has been developed using established industry experts.

This Integration Joint allows the auxiliary lines to be simplified and reduces the need for crossovers. Oil States also has a range of riser coupling designs rated to meet the needs of deepwater drilling risers and existing riser systems.

Another unique feature, the 'Hands Free Pull in Bridle', offers a simplified and effective solution for remote make-up of flow lines. This can be adapted to existing vessels without the need for complex structures in the moon pool.

Design Features

- Retrievable RCD Bearing Assembly
 - Retrievable Stripper Packers
 - Hands Free Pull In Bridle for Flow Line make-up
 - Bleed and Equalisation lines.
 - Pressure/Temp sensors
 - Tension rating from 3500kips and beyond
 - Full integration to existing riser string
 - 40ft long, 15,000kg
- 2000psi rated bore pressure
 - Max envelope dia 57"
 - Full 18¾" through bore with RCD & Stripper Packers removed
 - No crossovers required. The integration joint offers a range of Oil States' riser connections which are integral to the joint.



Managed Pressure Drilling System





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Benefits

- RCD and Stripper Packers can be retrieved without pulling the joint. This allows ease of replacement/maintenance.
- RCD offers a step change in design and performance. The RCD utilises a new sealing technology and tighter control of run-out to enhance performance and life of the bearing assembly.
- Dual Stripper Packers can be replaced independently offering operational time saving and flexibility of use when stripping drill pipe.
- Integration Joint outside diameter is substantially reduced due to Packer design.
- Flow Lines can be connected/disconnected completely hands free removing the need for man riding operations.
- Flow lines can be shorter due to the compact nature of the Integration Joint and higher position of the Flow Spool.
- Riser Aux Lines are unaffected. The Integration Joint provides a direct interface to existing riser connections and aux line configurations which simplifies interfaces and make-up time
- Substantially lighter and shorter than current designs on the market. Ease of handling and all round safer operations.

Standards

- API 16RCD
- API 16F
- API 16C

Testing

- RCD qualification testing exceeds API 16RCD.
- Stripper Packer testing includes a range of static and dynamic stripping tests.
- Seal Temp qualification in accordance with API 6A.

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