**Introduction**

Oil States Industries is a world leader in the design and manufacture of advanced connection systems for offshore tubulars. Our connectors provide fast make-up and high performance and are ideal for SCRs, TLPs, tethers, conductors, casing, new and replacement caissons, HP risers, pipelines and jacket piles. Oil States is a proven provider of riser components for deep water, production, drilling and completion risers. We also offer comprehensive riser system design services, completion, drilling, subsea and surface equipment to complement our field-proven connector technologies.

Oil States' wellhead connectors come in three different configurations: hubbed, flanged and studded offering simplified operating characteristics and maintenance without sacrificing reliability. Pistons are connected to a cam ring that pulls down to lock the dog segments onto the well head profile. Field-replaceable cylinders enable quick reinstallation of the connector.

**LynxGrip™ Connector**

The LynxGrip™ connector is a standard wellhead connector that latches to a conventional 18 3/4" profiled wellhead. These connectors are used primarily for:-
- BOP stack to wellhead connection
- BOP connection
- Subsea Xmas tree to wellhead connection
- Production riser assembly to subsea manifold, and other applications

The LynxGrip™ connector is available in two sizes and the differences in the connector ratings are shown in the Operating Capacity table overleaf. They have been designed, tested and qualified to withstand extreme bending and tension loads in deep-water applications.

The connector seals onto the wellhead by means of industry-standard metal-to-metal seals.
**Features**

- Suitable deepwater applications
- Self-locking cam ring
- Visual indicator rod
- Primary and back-up hydraulic activation and release circuits
- 45° dog profiled, offering positive mechanical release
- Hydrate seal option
- Field serviceable

**Qualification**

Certified DNV in accordance with ISO 13628-4/ISO 10423 PR2

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**LynxGrip™ Operating Capacity Chart**

<table>
<thead>
<tr>
<th>Operating Capacity</th>
<th>LynxGrip™ 15/31</th>
<th>LynxGrip™ 10/20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bending Load Capacity</td>
<td>3.1x10⁶ ft.lbs.</td>
<td>2.0x10⁶ ft.lbs.</td>
</tr>
<tr>
<td>Preload (max 12 pistons x 2000 psi)</td>
<td>2.51x10⁶ lbs.</td>
<td>2.1x10⁶ lbs.</td>
</tr>
<tr>
<td>Maximum Tension</td>
<td>1,000 kips</td>
<td>1000 kips</td>
</tr>
<tr>
<td>Operation Temperature Range</td>
<td>-20°C to 120°C</td>
<td>-20°C to 120°C</td>
</tr>
<tr>
<td>Operating Depth</td>
<td>10,000 ft.</td>
<td>10,000 ft.</td>
</tr>
<tr>
<td>No. of Hydraulic Cylinders</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>Outside Diameter</td>
<td>51.5 in</td>
<td>46.88 in</td>
</tr>
<tr>
<td>Weight</td>
<td>13,900 lbs.</td>
<td>11,500 lbs.</td>
</tr>
<tr>
<td>Swallow</td>
<td>27.5 in</td>
<td>27.5 in</td>
</tr>
<tr>
<td>Maximum Bore</td>
<td>18.75 in</td>
<td>18.75 in</td>
</tr>
<tr>
<td>Maximum Working Pressure</td>
<td>15,000 psi</td>
<td>10,000 psi</td>
</tr>
<tr>
<td>Maximum Cylinder Pressure</td>
<td>3,000 psi</td>
<td>3,000 psi</td>
</tr>
</tbody>
</table>

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