**Product Description:**
The Circulating Closing Valve (CCV) assembly is designed to be used at the toe of the liner system. The CCV allows for circulation as the PosiFrac® System is being run in hole. A ball-actuated mechanism isolates the internal casing pressure, enabling activation of the Hydraulic-Activated Fracturing Sleeve with pressure.

**Provide Solutions For:**
- Horizontal open hole multi-stage hydraulic fracturing completions

**Features:**
- The ball-activated valve assembly has a built-in backup with redundant ball seats
- Positive locked-closed system
- A large circulation area and direct flow path ensures large fluid bypass
- The ball seat can be readily milled out with conventional milling Bottom Hole Assembly (BHA)

**Benefits:**
- Increased operational reliability
- Bi-directional barrier enabled pressure test and well control
- Reduced risk of plugging while circulating heavy drilling fluids
- Easily obtained access to wellbore

**Tool Sizes:**

<table>
<thead>
<tr>
<th>Casing Size</th>
<th>OD</th>
<th>Length</th>
<th>Burst</th>
<th>Shear Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 1/2 in. (114.30)</td>
<td>5.00 in. (127.00)</td>
<td>21.00 in. (533.40)</td>
<td>12,410 psi</td>
<td>330 / screw 8 screws</td>
</tr>
<tr>
<td>5 1/2 in. (139.70)</td>
<td>6.45 in. (163.83)</td>
<td>22.00 in. (558.80)</td>
<td>14,510 psi</td>
<td>670 / screw 4 screws</td>
</tr>
</tbody>
</table>