Swab Mandrels

Two Basic Types
Swab Mandrels from Oil States are available for use with wire or “all rubber” type swab cups. Wire type tubing and drill pipe swab cups (1 1/4” through 3 1/2”) can be used on the “all rubber” type mandrels by utilizing sleeves available from Oil States.

Maximum Fluid By-Pass
Tubing and drill pipe mandrels are fluted, allowing maximum fluid by-pass while lowering the mandrel to swabbing depth. Steel mandrels are either machined or drop forged from high strength alloy steel. All mandrels exceed strength requirements for wire rope sizes recommended for use with mandrels.

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Components</th>
<th>Pin Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>120~</td>
<td>1 1/4”</td>
<td>122-U Upper Section</td>
<td>5/8” S.R.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>122-L Lower Section</td>
<td>5/8” S.R.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>121-A Nose Guide</td>
<td>5/8” S.R.</td>
</tr>
<tr>
<td>150</td>
<td>1 1/2”</td>
<td>151-U Upper Section</td>
<td>5/8” S.R.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>152-L Lower Section</td>
<td>5/8” S.R.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>151-A Nose Guide</td>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2”</td>
<td>202 Mandrel</td>
<td>3/4” S.R.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>201 Adapter</td>
<td>3/4” S.R.</td>
</tr>
<tr>
<td></td>
<td>2 1/2”</td>
<td>252 Mandrel</td>
<td>3/4” S.R.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>201 Adapter</td>
<td>3/4” S.R.</td>
</tr>
</tbody>
</table>

** For use with all Rubber Type Cups.
~ May be used with Wire Type Cups if sleeves are used.