Application
The Spring Centralizer is a mechanical device used to centralize the tool string while it is run in and out of a cased or tubed well. Keeping the tool string centralized helps to prevent it from getting stuck downhole. It can be positioned anywhere on the tool and often, two Spring Centralizers are used in a string, one at the top and one near the bottom, to further increase the string's stability.

Features
- Use to Centralize Memory Tools in Tubing or Casing
- Spring Design Evenly Distributes Loading
- NACE Compliant Construction for Sour Service

Benefits
The Spring Centralizer has a very simple design, making it a more cost-effective solution than the Roller Centralizer.

1.68" Spring Centralizer

<table>
<thead>
<tr>
<th>Assembly Type</th>
<th>Thread Type</th>
<th>Part No.</th>
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<tbody>
<tr>
<td>Sweet Version (SS17-4)</td>
<td>Amerada</td>
<td>101210</td>
</tr>
<tr>
<td>Sour Version (Inconel 718)</td>
<td>Amerada</td>
<td>106821</td>
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</tbody>
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Specifications
- Centralizing Range: 1.69" to 8.7"
- Load Capacity: 30 lbs
- Tensile Breaking Strength: 45,000 lbs
- Working Load: 30,000 lbs