PRODUCT DESCRIPTION:
The Permanent Liner Hanger Packer is a robust, high-performance, hydraulic, dual bore permanent packer designed for installation in a single trip. The packer incorporates an upper bore to allow it to be latched to a work string or frac string while maintaining full bore capabilities.

PROVIDE SOLUTIONS FOR:
- Horizontal open hole multi-stage hydraulic fracturing completions

FEATURES:
- The hydraulic packer is set with a pressure-isolating setting tool that is run in hole and includes a ball seat
- Full circle slips ensure a robust design
- The dual seal bore provides full ID with the use of a frac string or production string
- Expandable metal backup rings provide a metal-to-metal barrier with the casing wall
- Left-hand thread on the top seal bore allows use of an anchor latch

BENEFITS:
- Isolation of the setting port while running the system in hole
- Pressure application at the tool versus relying on pressure integrity throughout the entire liner
- Allows maximum seat size in the frac sleeves
- Prevention of element extrusion
- Easy snap-in and right-hand rotation out of the packer
- Reduced potential of presetting while running in hole

TOOL SIZES:

<table>
<thead>
<tr>
<th>Casing</th>
<th>Packer</th>
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<tbody>
<tr>
<td>OD</td>
<td>Weight (lb/ft)</td>
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<tr>
<td>7 in. (177.8 mm)</td>
<td>23 to 32 lb/ft</td>
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