CHAMP® V Non-Rotational Retrievable Packer

OVERVIEW
The CHAMP® V non-rotational packer is ideal for deepwater extended-reach applications, where getting enough torque down hole to manipulate the toolstring can be a major challenge. The packer consists of a hookwall retrievable packer with a concentric bypass and a continuous indexing J-slot. It is constructed with higher grade materials, and elastomers are supported with backup rings. The J-slot allows the packer to be run in the casing, set and unset without applying any rotation to the workstring. The packer can cycle from the run-in-hole (RIH) position to the set and pull-out-of-hole (POOH) position simply by lifting or lowering the drillpipe or tubing in the wellbore. This simplifies the procedure and requirements for the operator, saving both time and money.

A J-slot position locking mechanism keeps the packer in the RIH configuration until the desired depth is reached and the locking mechanism is deactivated. The locking mechanism allows the packer to be run on jointed pipe without cycling through the positions in the J-slot as each joint of pipe is being made up at the surface. The concentric bypass allows fluids to circulate around the bottom of the tool when it is removed from or moved up hole in the wellbore. Therefore, circulation as the packer assembly is passed through tight spots where packer elements may unintentionally achieve a temporary seal remains interrupted. The bypass valve is also designed to be pressure balanced with applied pressure. This prevents the unintentional opening of the bypass during treatment applications.

FEATURES AND BENEFITS
> Easily operated in extended-reach or highly-deviated wellbores
> No rotation required to set the packer
> Assembly will not set until the hydrostatic pressure at a predetermined depth is reached or annulus pressure is applied
> Easily relocated to multiple zones during a single-trip for treating, testing, or squeezing
> Larger bypass flow area with positive circulation below the packer and tailpipe
> Temperature rating of 400°F (204.4°C)
> Service environment—immersion in various well fluids including hydrocarbons dilute HCL, sour gas, salt water, and CO₂
# CHAMP® V Non-Rotational Retrievable Packer

<table>
<thead>
<tr>
<th>Casing Size (in.)</th>
<th>Packer OD in. (cm)</th>
<th>Packer ID in. (cm)</th>
<th>End Connections</th>
<th>Nominal Casing Weight lb/ft</th>
<th>Minimum Casing ID in. (mm)</th>
<th>Maximum Casing ID in. (mm)</th>
<th>Length in. (cm)</th>
<th>Tensil Rating* lb (kg)</th>
<th>Working Pressure* psi (MPa)</th>
<th>Burst Pressure* psi (MPa)</th>
<th>Collapse Rating*</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 5/8</td>
<td>8.40 (21.34)</td>
<td>2.25 (5.72)</td>
<td>5 1/4 CAS Box x Pin</td>
<td>29.3 - 47.0</td>
<td>8.681 (22.050)</td>
<td>9.063 (23.020)</td>
<td>182.17</td>
<td>370,000 (167 829)</td>
<td>10,000 (68.90)</td>
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<td>8.40 (21.34)</td>
<td>2.25 (5.72)</td>
<td>5 1/4 CAS Box x Pin</td>
<td>62.8</td>
<td>8.625 (21.908)</td>
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<td>182.17</td>
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</tr>
</tbody>
</table>

*The values of tensile, burst, and collapse strength are calculated with new tool conditions, Lame’s formulas with Von-Mise’s Distortion Energy Theory for burst and collapse strength, and stress area calculations for tensile strength. These ratings are guidelines only. For more information, consult your local Halliburton representative.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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