RapidForce® HS Sleeve System

ENABLING UNLIMITED ENTRY POINTS TO MAXIMIZE STIMULATION

FEATURES
» Fracturing sleeve with full bore ID, slim OD and open only locked in place design
» Ports phased circumferentially around the tool to optimize contact
» Ports sizes are customizable with inserts

BENEFITS
» Unlimited number of accurate fracture treatments for increased production and enhanced ultimate recovery
» Economical sleeve design, easily handled on the rig floor
» Full open ID enables highly reliable cementing operations and a restriction-free wellbore upon completion
» Over-displacement is eliminated
» Low cycle times between fracturing stages
» Real-time monitoring of bottomhole treating pressure through coil string

OVERVIEW
Unconventional reservoirs present many unique challenges to operators. Among each of the globe’s unconventional plays and even well by well, there is no one size fits all completion solution for multistage fracturing. A variety of completion methods are available today – each with its advantages for operators.

Single-point entry fracturing methods offer a precise and a reservoir-centric approach to multi-stage well fracturing. The RapidForce® HS sleeve system uses preinstalled frac sleeves at each fracturing location. The sleeves are activated by the coiled tubing assembly – a cost-saving and efficient alternative to hydrojetting perforations for fracture placement.

The RapidForce HS sleeve system enables an unlimited number of fracturing stages to be placed along a production casing string – either cemented or using openhole packer isolation. The sleeve is opened by engaging the shifting tool and pulling the inner sleeve into the open position. The bottomhole assembly can then be released and moved below the sleeve to set the packer. With the packer set, the fracture treatment is pumped down the annulus of the coiled tubing string. Once the wellbore treatments are complete, the wellbore is free of restrictions – aiding in wellbore cleanout efficiency and enabling future intervention, as needed.
### RapidForce® HS Sleeve Specifications

<table>
<thead>
<tr>
<th>Casing Size (in.)</th>
<th>Sleeve OD (in.)</th>
<th>Sleeve ID (in.)</th>
<th>Minimum Openhole Size (in.)</th>
<th>Overall Sleeve Length (in.)</th>
<th>Maximum Temperature Rating (deg F)</th>
<th>Maximum Pressure Rating (psi)</th>
<th>Number of Stages Available</th>
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</thead>
<tbody>
<tr>
<td>4 1/2</td>
<td>5.60</td>
<td>4.00</td>
<td>5.875</td>
<td>36.0</td>
<td>350</td>
<td>10,000</td>
<td>Unlimited</td>
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### RapidForce® HS Coiled Tubing Bottomhole Assembly Specifications

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<tbody>
<tr>
<td>4 1/2, 11.6-13.5 ppf</td>
<td>3.75</td>
<td>10,000</td>
<td>250</td>
<td>2,000</td>
<td>1,000</td>
<td>12</td>
<td>112,500</td>
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*These ratings are dependent on the application and tool configuration.

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