MonoFlex
Dual-connection fracturing fluid delivery technology

APPLICATIONS
Hydraulic fracturing

 BENEFITS
■ Expedite rig-up and rig-down with only two connections
■ Minimize nonproductive time by
  ● minimizing potential leak paths
  ● reducing tortuosity and turbulence to improve erosion resistance and promote uninterrupted service life
■ Optimize frac delivery by limiting friction effects downstream of the pumping equipment
■ Improve well site footprint
■ Reduce HSE risk by limiting assembly risks for personnel

FEATURES
■ Flexible, nonrigid materials that accommodate differences in distance between the frac tree and the manifold
■ Robust, erosion-resistant combination of rubber compounds and steel cables for cover and lining
■ Measurably torqued flange connections and metal sealing gaskets
■ 5-in nominal diameter with 15,000-psi [103.4-MPa] maximum working pressure
■ Ability to inspect the technology in the field
■ API Spec 6A end connections

MonoFlex* dual-connection fracturing fluid delivery technology speeds up multiwell pad rig-up, reduces nonproductive time, and limits HSE risks with a flexible, erosion-resistant conduit that couples the frac manifold to the frac tree. By simplifying frac fluid flow paths and minimizing the number of connections and flowlines compared with conventional options, the MonoFlex technology optimizes proppant and fracturing fluid delivery.

Improve wellsite flexibility and performance
Traditional fracturing fluid delivery systems require 12 to 30 connections from the manifold to the frac tree. The robust, simplified MonoFlex technology has only two connections, reducing possible leak paths, assembly risks for personnel, and risks of mismatched connections. The flexibility provided by MonoFlex technology also improves freedom of movement to accommodate vertical and horizontal misalignment between the frac tree and the frac manifold.

The result is a cleaner wellsite footprint and reduced risk of potential job interruptions throughout the fracturing operation.

Maximize fracturing uptime and efficiency
With fewer connections between the pumping equipment and the wellbore, MonoFlex technology expedites mobilization and time to first production. The system is typically rigged up before the completion crew arrives, and during the time-critical fracturing operation, its erosion-resistant design helps minimize time required for inspection, maintenance, and repair.

MonoFlex Technology Specifications

<table>
<thead>
<tr>
<th>Nominal Diameter, in</th>
<th>Max. Working Pressure, psi [MPa]</th>
<th>Max. Injection Rate, bbl/min [m³/min]</th>
<th>Temperature Range, degF [degC]</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>15,000 [103.4]</td>
<td>&gt;100 [&gt;15.6]</td>
<td>–40 to 158 [–40 to 70]</td>
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</tbody>
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