Product Bulletin

Parker 431/436
Compact® Generation Hose

- Smaller O.D. hoses fit in tight spaces
- Half the SAE 100R2 minimum bend radius
- Less hose required, lower cost
- Meets SAE 100R16

We Keep Ideas Flowing™
Parker’s Compact® Generation Hose bends over backwards to suit any application

With one-half the minimum SAE bend radius and a smaller hose O.D., Parker 431/436 Compact® Generation hose has the flexibility to work in almost any application – including tight spots. Engineered to withstand high pressure within a wide range of working temperatures, Parker 431/436 is not only versatile, but dependable over a long hose life. For quality, service, and value, there’s simply no match.

Additional Benefits
The compact size and superior flexibility of Parker 431/436 also means less weight, smaller hose bundles, and less hose required for your application. And that means you save two very important things: time and money. In addition, Parker 431/436 features an embossed layline for easy hose identification.

Construction
Both Parker 431 and 436 hoses are comprised of synthetic rubber tube; two braids of high tensile steel wire reinforcement separated by a synthetic rubber layer; and an oil-, weather-, and MSHA-accepted synthetic rubber outer cover. Parker 436 uses PKR® synthetic rubber inner tube to allow for a wider temperature range.

Applications and Temperature Ranges
• Petroleum-based hydraulic fluids, hot oil, grease, lubricants, crude and fuel oils – Parker 431: -40°F to +257°F (-40°C to +125°C); Parker 436: -58°F to +302°F (-50°C to +150°C)
• Water, water/glycol and water/oil emulsion hydraulic fluids – up to +185°F (+85°C)
• Air within a temperature range of -40°F to +158°F (-40°C to +70°C); For air and gas applications above 250 psi, the cover should be pin pricked

Parker 43 Series fittings allow for fast, simple, perfect assemblies
For use with Parker 431/436 Compact Generation Hose, Parker 43 Series fittings are compatible with the Parkrimp system of crimpers for easy, no-skive assembly.

Parker’s crimping system is designed better to perform better, featuring couplings that “Put the Bite on the Braid” for a factory-like, metal-to-metal grip that’s leak free. And it’s so simple:
• No skiving tools necessary
• No need to remove hose cover
• No gauges to set
• No special training required
• No loose parts to mismatch

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Nominal Hose I.D.</th>
<th>Nominal Hose O.D.</th>
<th>Maximum Working Pressure</th>
<th>Minimum Burst Pressure</th>
<th>Minimum Bend Radius</th>
<th>Crimp Fitting</th>
<th>Reusable Fitting</th>
<th>Weight</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
<td>psi</td>
<td>MPa</td>
<td>psi</td>
<td>MPa</td>
<td>inch</td>
</tr>
<tr>
<td>431-4</td>
<td>1/4</td>
<td>6.3</td>
<td>0.53</td>
<td>13</td>
<td>5,000</td>
<td>34.5</td>
<td>20,000</td>
<td>138</td>
<td>2</td>
</tr>
<tr>
<td>431-5</td>
<td>5/16</td>
<td>8</td>
<td>0.59</td>
<td>15</td>
<td>4,250</td>
<td>29.3</td>
<td>17,000</td>
<td>117</td>
<td>2-1/4</td>
</tr>
<tr>
<td>431-6</td>
<td>3/8</td>
<td>10</td>
<td>0.68</td>
<td>17</td>
<td>4,000</td>
<td>27.5</td>
<td>16,000</td>
<td>110</td>
<td>2-1/2</td>
</tr>
<tr>
<td>431-8</td>
<td>1/2</td>
<td>12.5</td>
<td>0.81</td>
<td>20</td>
<td>3,500</td>
<td>24</td>
<td>14,000</td>
<td>96</td>
<td>3-1/2</td>
</tr>
<tr>
<td>431-10</td>
<td>5/16</td>
<td>8</td>
<td>0.94</td>
<td>24</td>
<td>2,750</td>
<td>19</td>
<td>11,000</td>
<td>76</td>
<td>4</td>
</tr>
<tr>
<td>431-12</td>
<td>3/4</td>
<td>19</td>
<td>1.09</td>
<td>28</td>
<td>2,250</td>
<td>15.5</td>
<td>9,000</td>
<td>62</td>
<td>4-3/4</td>
</tr>
<tr>
<td>431-16</td>
<td>1</td>
<td>25</td>
<td>1.40</td>
<td>36</td>
<td>2,000</td>
<td>13.8</td>
<td>8,000</td>
<td>55</td>
<td>6</td>
</tr>
</tbody>
</table>

NOTE: The silver die ring must be used when crimping 43 Series Parkrimp fittings onto 431 and 436 hose.