Compact Spiral™ Hose
Unprecedented performance and flexibility
Unprecedented 5000- and 6000-psi hose performance in a compact design.

Compared with conventional spiral hose, Parker’s Compact Spiral™ 787TC/797TC hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more. A world’s first, this development is the most significant advancement in hydraulic hose since the introduction of Parker’s No-Skive™ technology more than 25 years ago.

Compact Spiral was developed in concurrence with the industry trend toward high-pressure hose manufactured to meet ISO 18752 performance specifications.

Its many innovative and proprietary features set new standards in value and deliver hose characteristics deemed most important by OEM and aftermarket customers.
Compact Spiral Hose has half the bend radius of its SAE counterpart and a significantly smaller bend radius than corresponding-size Parker conventional spiral hose.

**Compact Spiral™ Bend Radius**
Not only is it 1/2 the bend radius, but it takes 1/3 less effort to bend.

**Compact Spiral™ 797TC-12**
has 1/2 the Bend Radius

10-1/2"

21"

**SAE 100R15**

Half the bend radius with **one-third less effort**
Providing remarkable flexibility and routing ease, the bend radius of Compact Spiral 797TC/797TC is respectively half that of SAE 100R13/SAE 100R15 conventional spiral hose.

**VALUE**
Half the bend radius can reduce your hose needs 20% to 55%.

Nearly 30% smaller O.D.
A key reason for Compact Spiral’s notably easier handling and routing, this feature also enables bends to start sooner than with conventional spiral, resulting in hose savings, reduction of shaped hose ends – and there is less chance of over-bending.

**VALUE**
Smaller O.D. enables you to fit more hose in tight quarters or helps you jump up a hose size for better flow characteristics.

Twice the impulse
Compact Spiral Hose is tested to 2,000,000 cycles – two times the ISO 18752-DC impulse cycle standard and four times the SAE impulse requirement. The result is a hose superior in both performance and service life.

**VALUE**
Twice the impulse life increases your hose life in your application, extending the time between replacements.
**Increased Flexibility**
Many hoses today are rated to 1/2 SAE bend radius, but can you get them there? Compact Spiral’s design and process technology make it the most flexible and easiest to bend spiral hose on the market.

**High abrasion resistance**
The highly abrasion-resistant cover of Compact Spiral Hose delivers long, dependable service life in rigorous and/or remote installations.

**Value**
Parker’s Tough Cover™ will outlast non-abrasion resistant covers, extending hose life and increasing intervals between hose change outs.

**Constant pressure**
Made to ISO 18752 hose specifications, Compact Spiral 787TC (5000 psi) and 797TC (6000 psi) each provide constant-pressure performance across all sizes.

Less-bulky inner tube and outer wall construction results in up to one-third smaller Compact Spiral Hose O.D. area, enabling easier routing, hose savings and space savings.

**Interlock No-Skive design**
Improved and easier routing, resulting in reduced installer fatigue and faster installation times for greater overall efficiency.

**100R15 797TC-12**
Compact Spiral 787TC/797TC is rated to ISO 18752 Type DC/CC

ISO 18752 Performance Definitions (4.2 Grades and Types)

<table>
<thead>
<tr>
<th>Grade</th>
<th>Type(^a)</th>
<th>Temperature (^\circ)C</th>
<th>Impulse Pressure (% of MWP(^b))</th>
<th>Minimum Number of Cycles</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>AS</td>
<td>100</td>
<td>133%</td>
<td>200,000</td>
</tr>
<tr>
<td></td>
<td>AC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>BS</td>
<td>100</td>
<td>133%</td>
<td>500,000</td>
</tr>
<tr>
<td></td>
<td>BC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>CS</td>
<td>120</td>
<td>133% and 120%(^c)</td>
<td>500,000</td>
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<tr>
<td></td>
<td>CC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>DC</td>
<td>120</td>
<td>133%</td>
<td>1,000,000</td>
</tr>
</tbody>
</table>

\(^a\) Standard or compact, e.g. CS is grade C and standard type. Standard types have larger outside diameters and larger bend radii and compact types have smaller outside diameters and smaller bend radii.

\(^b\) Maximum working pressure.

\(^c\) 120% of the MWP shall be used for classes 350, 420 and 560 instead of 133%.

ISO 18752 classifies according to their resistance to impulse into four grades: A, B, C and D. Each grade is classified by outside diameter into standard types (AS, BS and CS) and compact types (AC, BC, CC and DC) as shown in this table.

Compact Spiral Hose features Parker’s exclusive Interlock No-Skive design, with both internal and external “Bite the Wire” technology for assured connection strength.

**VALUE**

Better hose to fitting connection reduces leaks and increases holding power.
Just one series of hose ends, Parker’s 77 Series, covers all sizes of both 787TC and 797TC Compact Spiral hose, simplifying fitting selection and reducing hose-end inventory.

Advancing the industry
Compact Spiral hose delivers substantial performance and value for systems with high pressure, high impulse applications. These include injection molding, oil and gas, and large mobile equipment including off-highway, construction, forestry and mining.

Surveys in these markets have indicated pressure rating, routing ease, abrasion resistance, bend radius and weight as being top priorities in hose selection for such applications.

Contact your local Parker representative for a demonstration of Compact Spiral today.

Wide fluid compatibility
Parker’s patent-pending inner tube compound provides enhanced fluid compatibility (e.g., environmental fluids, Polyol Esters), improved tube aging and prolonged life.

VALUE
Reduces need for specialty hoses for non standard fluids. Better heat aging of tube extends hose life.

Many Parker crimper models such as KarryKrimp® 2, used for crimping smaller-size hose, and Parkrimp® 2 can be used to crimp 787TC and 797TC Compact Spiral hose.
Manufactured to ISO 18752 specifications, Parker Compact Spiral Hose delivers significant advantages in routing and installation ease, system size and weight, inventory savings and much more, over SAE 100R13 and 100R15 hose.

### Part Number

<table>
<thead>
<tr>
<th>Part Number</th>
<th>ISO 18752 Performance Grade</th>
<th>Hose I.D. Inch</th>
<th>Hose O.D. Inch</th>
<th>Working Pressure psi</th>
<th>Minimum Bend Radius Inch</th>
<th>Weight lbs/ft</th>
<th>Parkrimp</th>
</tr>
</thead>
<tbody>
<tr>
<td>787TC-8</td>
<td>DC</td>
<td>1/2</td>
<td>12.5</td>
<td>5000</td>
<td>3-1/2</td>
<td>0.45</td>
<td>0.67</td>
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<tr>
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<td>DC</td>
<td>5/8</td>
<td>16</td>
<td>5000</td>
<td>4</td>
<td>0.54</td>
<td>0.80</td>
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<tr>
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<td>DC</td>
<td>3/4</td>
<td>19</td>
<td>5000</td>
<td>4-3/4</td>
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<tr>
<td>787TC-16</td>
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<td>25</td>
<td>5000</td>
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<td>DC</td>
<td>1-1/4</td>
<td>31.5</td>
<td>5000</td>
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<tr>
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<td>5000</td>
<td>10</td>
<td>2.66</td>
<td>3.96</td>
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<tr>
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<td>51</td>
<td>5000</td>
<td>12-1/2</td>
<td>4.37</td>
<td>6.50</td>
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### Application:
- Petroleum base hydraulic fluids and lubricating oils

### Inner tube:
- Proprietary synthetic rubber

### Reinforcement:
- Four or six spiral steel wires

### Cover:
- Synthetic rubber, MSHA accepted

### Temperature range:
- -40°C to +125°C (-40°F to +257°F)

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Your complete source for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves and assembly tools, locally available from a worldwide network of authorized distributors.

Fittings:
Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

Hose, Tubing and Bundles:
Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

Worldwide Availability:
Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe and Asia-Pacific.

For information, call toll free...

1-800-C-PARKER (1-800-272-7537)