Eaton’s EC600 is a more flexible SAE 100R15 spiral hose to complement the current offering of Eaton’s FC500 X-FLEX™ SAE 100R13 spiral hose offering. FC500 & EC600 were designed to perform in very demanding high impulse applications at 50% of the SAE 100R13 and SAE 100R15 bend radii, respectively.

In order to install a spiral hose in a much smaller area, Eaton designed our X-FLEX spiral hoses to be up to 38% more flexible for easier handling during installation. EC600 hose meets and exceeds SAE 100R15 performance at ½ the bend radius of a standard SAE 100R15 hose. EC600 has been tested to over 1.3 million impulse cycles with an operating pressure of 420 bar (6100psi).

EC600 high pressure spiral hydraulic hose was designed to meet the most demanding applications where very high pressure and the need for easy installation in tight spaces come together. EC600 X-FLEX hydraulic hose exceeds SAE 100R15 performance and ISO 18752.

**Application**

High pressure hydraulic circuits on mobile construction equipment, mining equipment, and industrial applications for pressures up to 420 bar.

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
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<tbody>
<tr>
<td>4/6 spiral wire reinforcement</td>
<td>Reduction in weight of spiral hose assembly and better hose flexibility</td>
</tr>
<tr>
<td>Highly abrasion resistant DURA-TUFF™ cover</td>
<td>Offers longer hose life in applications that see high abrasion</td>
</tr>
<tr>
<td>½ Bend radius vs SAE 100R15</td>
<td>1/2 bend radius can reduce the hose length requirement and extend hose life in certain applications</td>
</tr>
<tr>
<td>Improved force-to-bend</td>
<td>Improved flexibility for easier installation in tight spaces</td>
</tr>
<tr>
<td>SAE J1176 – Class 0 cool down leakage</td>
<td>No fluid leakage between hose and fitting when machine is shut down and system cools</td>
</tr>
<tr>
<td>Hose materials meet global REACH requirements</td>
<td>Longer hose assembly life means more uptime and reduced overall operating costs</td>
</tr>
<tr>
<td>Exceeds 100R15 and ISO 18752 performance</td>
<td></td>
</tr>
<tr>
<td>New generation inner tube with 5x longer life than typical SAE 100R15 hose</td>
<td></td>
</tr>
</tbody>
</table>

**EC600 X-FLEX hose tested to beyond SAE 100R15 impulse cycle requirements at 1/2 bend radius**
Premium

EC600 X-FLEX hydraulic hose

Exceeds SAE 100R15, ISO 18752 performance

Operating temperature:
-40°C to +121°C (-40°F to +250°F)

Construction
- Synthetic rubber tube
- 4/6 Spiral wire reinforcement
- Highly abrasion resistant DURA-TUFF cover
- Ink transfer layline

Agency listing
- MSHA
- DNV
- ABS
- U.S. Coast Guard

Approved fittings
- 4S and 6S fitting series:
  *SAE 100R15 ½ Bend & ISO 18752-CC
- 1W fitting series:
  SAE 100R15 ½ Bend & ISO 18752-DC
  (-12 through -24 sizes)
  ISO 18752-CC (-32 size)

Fittings:

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<tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>mm</td>
<td>in</td>
<td>bar</td>
<td>psi</td>
<td>bar</td>
<td>psi</td>
</tr>
<tr>
<td>EC600-12</td>
<td>DC</td>
<td>19.1</td>
<td>0.75</td>
<td>32.2</td>
<td>1.27</td>
<td>420</td>
<td>6,100</td>
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<tr>
<td>EC600-16</td>
<td>DC</td>
<td>25.4</td>
<td>1.00</td>
<td>38.6</td>
<td>1.52</td>
<td>420</td>
<td>6,100</td>
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<tr>
<td>EC600-20</td>
<td>DC</td>
<td>31.8</td>
<td>1.25</td>
<td>49.7</td>
<td>1.96</td>
<td>420</td>
<td>6,100</td>
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<tr>
<td>EC600-24</td>
<td>DC</td>
<td>38.1</td>
<td>1.50</td>
<td>58.5</td>
<td>2.30</td>
<td>420</td>
<td>6,100</td>
</tr>
<tr>
<td>*EC600-32</td>
<td>CC</td>
<td>50.8</td>
<td>2.00</td>
<td>72.0</td>
<td>2.83</td>
<td>420</td>
<td>6,100</td>
</tr>
</tbody>
</table>

With the 6S fitting the -32 size working pressure is 380 bar (5500 psi) with a 4:1 safety factor.

Inner tube:
- Synthetic rubber

Reinforcement:
- 4 wire spiral:
  -12, -16 size
- 6 wire spiral:
  -20, -24, -32 size

Cover:
- DURA-TUFF high abrasion synthetic rubber

Typical application:
High pressure hydraulic system service with petroleum and water-based fluids, for general industrial service.

MSHA approved

*The only -24 industry product that meets 420 bar DC standards!