ANCHORFLUIDSYSTEMS

HYDRAULIC HOSE, COUPLINGS, AND ASSEMBLIES
FOR MORE THAN 85 YEARS, CATERPILLAR HAS BEEN MAKING SUSTAINABLE PROGRESS POSSIBLE AND DRIVING POSITIVE CHANGE ON EVERY CONTINENT.

WITH 2011 SALES AND REVENUES OF $60.1 BILLION, CATERPILLAR IS THE WORLD’S LEADING MANUFACTURER OF CONSTRUCTION AND MINING EQUIPMENT, DIESEL AND NATURAL GAS ENGINES, FLUIDS, INDUSTRIAL GAS TURBINES AND DIESEL-ELECTRIC LOCOMOTIVES.
The Caterpillar brand is supported and strengthened by 20 enterprise brands, each vital to the success of the enterprise and each responsible for unique contributions to customer value in the regions we serve.
CATERPILLAR manufacturers high quality hydraulic hose and couplings for installing on equipment. It manufactures and for the general market business sector.

The product line includes many different configurations of hose and couplings from small diameters to large bore hose products.

Cat designed hydraulic hose, couplings, and assemblies are marketed under the Cat and Anchor brands.
ANCHOR, with a history dating back to 1938, specializes in high quality hydraulic hose and couplings for both the OEM and general market business sectors.

The Anchor product line includes many different configurations of hose and couplings from small diameters up to the large bore hose products. Anchor branded product is manufactured following Caterpillar’s high quality standards and production specifications. The Anchor brand offers performance products and systems solutions with personalized service.
### BRAIDED HOSE

Synthetic rubber tube, one or two braids of special high tensile steel wire reinforcements separated by layers of synthetic rubber. Oil and weather resistant synthetic rubber cover. Temperature range: -40°C to +150°C

<table>
<thead>
<tr>
<th>Hose Type</th>
<th>Technical Standards</th>
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<tbody>
<tr>
<td>R1 SAE 100 R1 AT</td>
<td>1SN EN 853 / SAE 100 R1 AT PLUS</td>
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<tr>
<td>1SN EN 853 / SAE 100 R1 AT PLUS</td>
<td>2SN EN 853 / SAE 100 R2 AT</td>
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<td>2SN EN 853 / SAE 100 R2 AT TOUGHGUARD™</td>
<td>R14 SAE 100 R14</td>
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<td>2SC EN 857 / SAE 100 R16</td>
<td>R19 SAE 100 R19</td>
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<tr>
<td>R17 SAE 100 R17</td>
<td>R19 SAE 100 R19 PLUS</td>
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<tr>
<td>Pilot and Control Line</td>
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**HOSE PRODUCTS**
**SPIRAL HOSE**

Synthetic rubber tube, four or six spiral plies of high tensile steel wire reinforcements separated by layers of synthetic rubber. Oil and weather resistant synthetic rubber cover. Temperature range: -40°C to +120°C
**TEXTILE BRAIDED HOSE**

Synthetic rubber tube, one or two textile braid reinforcements, synthetic rubber cover with all layers bonded. Temperature range: -40°C to +120°C

<table>
<thead>
<tr>
<th>R4 SAE 100 R4 PLUS</th>
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<td>R6 SAE 100 R6 PLUS</td>
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THERMOPLASTIC HOSE
Elastomeric core tube, one or two fiber braid reinforcements special polyester cover with all layers bonded. Temperature range: -56°C to +100°C
A LARGE SELECTION OF COUPLINGS to meet needs of the market, designed & tested as a system to work with Anchor hose. Complete traceability of the product.
Testing according to ASTM D 380 – SAE – EN Standards
Monsanto Rheometer and Mooney Viscometer for compound characteristics.
Tension, aging, hardness, & immersion testing conducted using statistical sampling.

Hydraulic Hose Testing: Rubber Laboratory
Testing conducted according to Caterpillar engineering/design specifications

Wire dimension, tensile strength, torsion & coating.

Hydraulic Hose Testing: Wire Tensile Strength
Dimensional evaluations are made at the final production phase before shipping to customers

According to the applicable SAE & EN Standards, the following dimensions are verified: internal bore, external diameter with exposed wire, cover elongation under pressure, burst pressure & adhesion between liner, wire and cover.

Hydraulic Hose Testing: Dimensional
Additional test performed: Standards EN 6945, EN27326, ASTM D117
Cover abrasion resistance, ozone resistance, salt spray test (for couplings only).

Hydraulic Hose Testing: Abrasion, Corrosion, Climate
Testing conducted following Standards EN 1402 - SAE J343, SAE J343 - EN 6803, SAE J1405 - EN 8032

Static pressure test, static impulse test, flex Impulse test.

Hydraulic Hose Testing: Pressure Testing
Static pressure test according to EN 1402 – SAE J343

Hydraulic Hose Testing: Burst
The Sikora measuring system is applied on the liner extruders. It ensures the concentricity within the prescribed tolerances on 100% of the hose batches.

Hydraulic Hose Testing: Concentricity
Caterpillar designs couplings to work as a system with Cat hose and according to specific standards.

Couplings are evaluated in the laboratories for: overall dimensions, thread dimensions, steel characteristics, e.g. hardness, tensile strength.
Final finish e.g. rust prevention treatment/coatings.

Hydraulic Hose Testing: Metallurgical
Assembling instruction and crimping charts are provided in a password-protected section of the Anchor web-site:

www.anchorfluidsystems.com