VTC - GTC offers a total package to the Utility, Industrial, Oil and Gas and Renewable Energy markets for power generation and transmissions up to 1400 MVA 500 kV class.

Field Service – Installation | Maintenance | Spare Parts
(Available optionally after delivery)
1-800-882-3944
24/7/365

www.vatransformer.com

For a local representative, visit www.vatransformer.com/Contact Us/locate A Representative: to find the name and contact information.
**Time:** VTC offers same day quotations and the best lead times in the industry to meet your customers’ expectations.

**Responsive:** When your customers have questions you need answers. Because VTC is an engineering company building transformers our sales engineers will reply the same day.

**Advertising:** Building a Brand in the market place for a product is critical to support customers efforts. From social media to direct engineering presentations to end users we continue to find innovative ways to promote the VTC brand in every marketplace.

**New:** Our engineers find new technologies and manufacturing processes to offer the broadest product range making VTC-GTC the One-Stop-Shop for distribution and power transformers.

**Support:** Before, during and after the sale.

**Field Services:** Our field service team has years of experience to solve issues quickly.

**Open Transparency:** is critical between a customer and manufacturer. VTC keeps an open line of communication with you to ensure everyone is on the same page to complete an order to shipment.

**Reliable:** customers expect product lines to be reliable and perform. With four ISO 9001-2008 certified manufacturing plants following ANSI, CSA, IEC, ABS, NEMA standards, you can be assured we can meet any quality requirements customers may have.

**More:** You want more options to meet the demanding needs of your customers. VTC’s product scope for Oil Filled Transformers is 300 kVA to 300 MVA up to 345 kV Class, and Dry Type Transformers from 300 kVA to 15 MVA up to 35 kV Class - 220º Class Insulation.

**Experience:** With over forty five (45) years of experience, distributors know they can rely on our technical expertise for the outside representatives and a knowledgeable sales staff to support cutsomers efforts. From social media to direct engineering presentations including SIMA, APEC, EES, ConExpo, AWEA and many others, VTC’s product scope for Dry Type is 300 kVA to 300 MVA up to 345 kV Class, and  Dry Type Transformers from 300 kVA to 15 MVA up to 35 kV Class. Complete with specialty applications:

- Auto Transformers
- Rectifier Duty Transformers
- Grounding Transformers
- Dual Voltage Transformers
- Motor Starting Transformers
- Reconnectable Transformers
- Drive Isolation Transformer
- Other Applications Available

Virginia Transformer provides the following gauges as specified:

- (LTG) Liquid Temperature Gauge
- (PVG) Pressure Vacuum Gauge & Bleeder
- (LLG) Liquid Level Gauge
- (PRD) Pressure Relief Device with Flange
- (SWTG) Simulated Winding Temperature Gauge
- (SPR) Sudden Pressure Relay
- (DNAP) Fan Cooling

Virginia Transformer and GEORGIA TRANSFORMER offers a total package to the Utility, Industrial, Oil and Gas, and Renewable Energy markets for power generation and transmissions up to 1400 MVA 500 kV class.

**STANDARDS**

ANSI – American National Standards Institute

IEC – International Electrical Commission

IEEE – Institute of Electrical and Electronic Engineers

CSA – Canadian Standards Association

C57.12.00 – Standard General Requirements for Liquid-Immersed Distribution, Power and Regulating Transformers


C57.93 – Guide for installation of Liquid-Immersed Power Transformers

C57.98 – Guide for Transformer Impulse Tests

C57.100 – Standard Test Procedure for Thermal Evaluation of Oil-Immersed Distribution Transformers

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**Typical Dimensions**

<table>
<thead>
<tr>
<th>Voltage (kV)</th>
<th>Basic lightning impulse insulation level (kV)</th>
<th>Low-frequency test level (kV rms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2 kV</td>
<td>30</td>
<td>10</td>
</tr>
<tr>
<td>2.5 kV</td>
<td>45</td>
<td>15</td>
</tr>
<tr>
<td>5 kV</td>
<td>60</td>
<td>19</td>
</tr>
<tr>
<td>8.7 kV</td>
<td>75</td>
<td>26</td>
</tr>
<tr>
<td>15 kV</td>
<td>95</td>
<td>34</td>
</tr>
<tr>
<td>25 kV</td>
<td>150</td>
<td>50</td>
</tr>
<tr>
<td>35 kV</td>
<td>200</td>
<td>70</td>
</tr>
<tr>
<td>46 kV</td>
<td>250</td>
<td>95</td>
</tr>
</tbody>
</table>

**Comparison of Properties of Less-Flammable Fluids**

<table>
<thead>
<tr>
<th>Fluid Type</th>
<th>Flash Point (ºC)</th>
<th>Dielectric Strength (kV/mm)</th>
<th>Dielectric Constant</th>
<th>Insulation Voltage (kV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Type II</td>
<td>145</td>
<td>30</td>
<td>2.2</td>
<td>3,775</td>
</tr>
<tr>
<td>Mineral Type III</td>
<td>149</td>
<td>44</td>
<td>2.2</td>
<td>3,775</td>
</tr>
<tr>
<td>Precipitated</td>
<td>161</td>
<td>40</td>
<td>2.2</td>
<td>3,775</td>
</tr>
<tr>
<td>Synthetic</td>
<td>195</td>
<td>20</td>
<td>2.2</td>
<td>3,775</td>
</tr>
</tbody>
</table>

**Facilities**

<table>
<thead>
<tr>
<th>Facility</th>
<th>MVA/Yr</th>
<th>Max MVA</th>
<th>Max kV</th>
<th>Max kV BIL</th>
<th>People / MBE</th>
<th>Other/Special</th>
<th>Full Scope Field Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roncon, GA</td>
<td>24,000</td>
<td>1,400 Shell</td>
<td>500 Shell</td>
<td>1,675 Shell</td>
<td>30/Yes</td>
<td>Auto-transformer, HV or LV LTCs, Re-connectable, Shunt reactors, Phase shifters, High current fuse</td>
<td></td>
</tr>
<tr>
<td>Roncon, GA Core form</td>
<td>400 Core</td>
<td>345 Core</td>
<td>1,300 Core</td>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Peckville, ID</td>
<td>10,000</td>
<td>100</td>
<td>230</td>
<td>1050</td>
<td>230/Yes</td>
<td>Re-connectable with various voltages, Tertiary windings, High current fuse nofficer, HV or LV LTCs, Ut up to and including 300 MVA</td>
<td></td>
</tr>
<tr>
<td>Roanoke, VA Liquid filled</td>
<td>9,000</td>
<td>30</td>
<td>138</td>
<td>550</td>
<td>360/Yes</td>
<td>Re-connectable on HV or LV, upto and including 500 MVA</td>
<td></td>
</tr>
<tr>
<td>Roanoke, VA Dry-type</td>
<td>15</td>
<td>3</td>
<td>150</td>
<td>350/Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chihuahua, MX Liquid filled</td>
<td>4,000</td>
<td>10</td>
<td>69</td>
<td>350</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chihuahua, MX Dry-type</td>
<td>7.5</td>
<td>34.5</td>
<td>150</td>
<td></td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VP &amp; GT assoc</td>
<td>47,000</td>
<td>1,400 Shell</td>
<td>400 Core</td>
<td>500 Shell</td>
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