



# Liquid Filled Transformers

utility | industrial | commercial

Individual solutions | from a global perspective.



VIRGINIA TRANSFORMER CORP

[www.vatransformer.com](http://www.vatransformer.com)



# Always the right choice

What you need. Where you need it. When you need it.

With a proven track record of more than a century, liquid filled transformers remain the most commonly used transformer system today for a variety of industrial, commercial and power utility applications. Over the last three decades, Virginia Transformer Corp (VTC) has built a reputation of its own: Today our customers know us as the choice for high-quality, custom-designed products, exceptional customer service and delivery times unparalleled in the industry.

Our distinction as the right choice for custom transformers and related products dates to our origins in 1971, when we launched our business as a transformer manufacturer for the underground mining industry. From day one our customers expected our liquid filled transformers to meet demanding system specifications such as low-profile construction, special high voltage/ low voltage requirements and tough environmental conditions. Our ability to meet and often exceed unique customer requirements remains at the heart of our business today.

## BUILDING OUR BUSINESS AROUND YOURS

We are continuing to mold our business around our customers' needs. From investments in global manufacturing capabilities to recruiting the best and brightest from around the world we have succeeded in creating a close-knit, capable, responsive team at VTC. Our customers know us as the right choice for delivering what they need, where they need it, when they need it.

You can count on VTC to manage your most complex projects, while still meeting your special requirements. It's all part of our total commitment to individualized solutions. The design staff behind this promise boasts an average of more than 15 years of transformer design experience.

The team approach at VTC extends to our relationship with our customers. You never have to work through a series of middlemen to get your questions answered and problems solved. Our customers always have direct access to our application and design engineers.

## APPLICATIONS

Applications of our liquid filled power transformers cover a broad range and address adverse environmental and electrical conditions. These applications include:



- **Industrial Power Supply Transformers** for general industrial loads, such as primary and secondary substation and unit substation.
- **Mass Transit Rectifier Transformers, NEMA RI-9** extra heavy-duty traction for subway, light rail and trolley applications.
- **Drive Isolation and Rectifier Duty**, used with AC or DC variable speed drives on motors, fans, compressors, pumps, drives for mills and processors, rectifier loads such as furnaces for all industrial applications.
- **PCB and Other Transformer Replacements** with matching designs to meet KVA, voltage, impedance, physical restrictions, terminations and throat requirements often with larger KVA.
- **Commercial Power Distribution Transformers** for schools, hospitals, high-rise buildings and other public service areas.
- **Power Generation Transformers** for exciter, start up, auxiliary service, station service and GSU.

## WHAT YOU NEED

VTC offers liquid filled transformers from 300 KVA to 300 MVA up to 230 KV class. We can customize units for special losses, high impedance, high secondary currents, minimized footprint and other special requirements. We offer all the options and accessories you may need for system protection and reliability as well as hassle-free maintenance.

## ALL IN A DAY'S WORK

- Automatic load tap changing equipment and controls
- Annunciators
- Multiple (up to 13) or reconnectable windings
- Special terminations
- Autotransformers, zig zag, motor starting
- Special frequency, BIL levels or impedances

## WHERE YOU NEED IT

You can rely on meticulously managed worldwide delivery from our operations in the US, Mexico and India. VTC's highly skilled field service organization can provide all on-site erection and commissioning services. All of our technicians are well versed in transformer manufacturing and testing procedures and are equipped with a fully fitted service trailer in the US for on-site installation and testing. We also maintain designated service shops across the US, Mexico and South America for warranty and preventative maintenance services.

## WHEN YOU NEED IT

With VTC as your supplier, you get the quickest delivery time in the industry. Oil-filled transformers ship in as little as 12 weeks. Larger power transformers are ready for installation in fewer than 32 weeks. Outline drawings can be submitted in a few weeks with our AutoCAD® design system. Throughout the design and manufacturing process, customers can rely on direct, timely contact with our application and design engineers. Post-installation service is literally at your fingertips 24 hours a day, 7 days a week with a call to our dedicated toll-free service hotline. We maintain a service commitment to respond to these calls within hours.

## QUALITY FROM START TO FINISH

All of our operations are ISO 9001 certified and utilize rigorous process control and continuous improvement systems, including a zero-defect goal. Our manufacturing facilities are equipped with environmentally controlled winding rooms, and for high voltage units, vacuum filling and vapor-phase drying systems are common. Throughout the manufacturing process we test to ANSI, IEEE and NEMA standards. CSA or IEC standards are readily available.

Accompanying all VTC transformers are detailed, customized equipment drawings and schematics, thorough operation and instruction manuals and comprehensive test reports. If needed, we will provide this documentation electronically. All standard documents can be downloaded from our web site.

Our total commitment to custom-designed quality products and world-class customer service is your assurance that the liquid filled transformer you order from Virginia Transformer Corp will meet, and very likely exceed, your expectations.

## FANCY FOOTWORK LEADS TO A FLEXIBLE SOLUTION

Every day customers ask our engineers to dance to the most complicated rhythms. But when you've got a design team boasting an average of more than 15 years' transformer industry experience, you develop a reputation for being nimble and quick-footed. So when Iowa-based Brooklyn Municipal Utility came to us with a request requiring the ultimate in flexibility, we were ready to perform. Brooklyn Municipal needed a transformer that could transmit at different voltages, because they would be using it at multiple locations. The unit also needed to have the capability to either step up or step down. A load tap changer would be the only source of voltage regulation. And their load required only a small transformer. Could we dance to this tune? It was a true test of our flexibility, but we were able to give Brooklyn Municipal a system that met all their requirements. And they found out what all of our customers know: VTC's troupe is as talented and responsive as they come.





Roanoke, VA



Chihuahua, Mexico



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