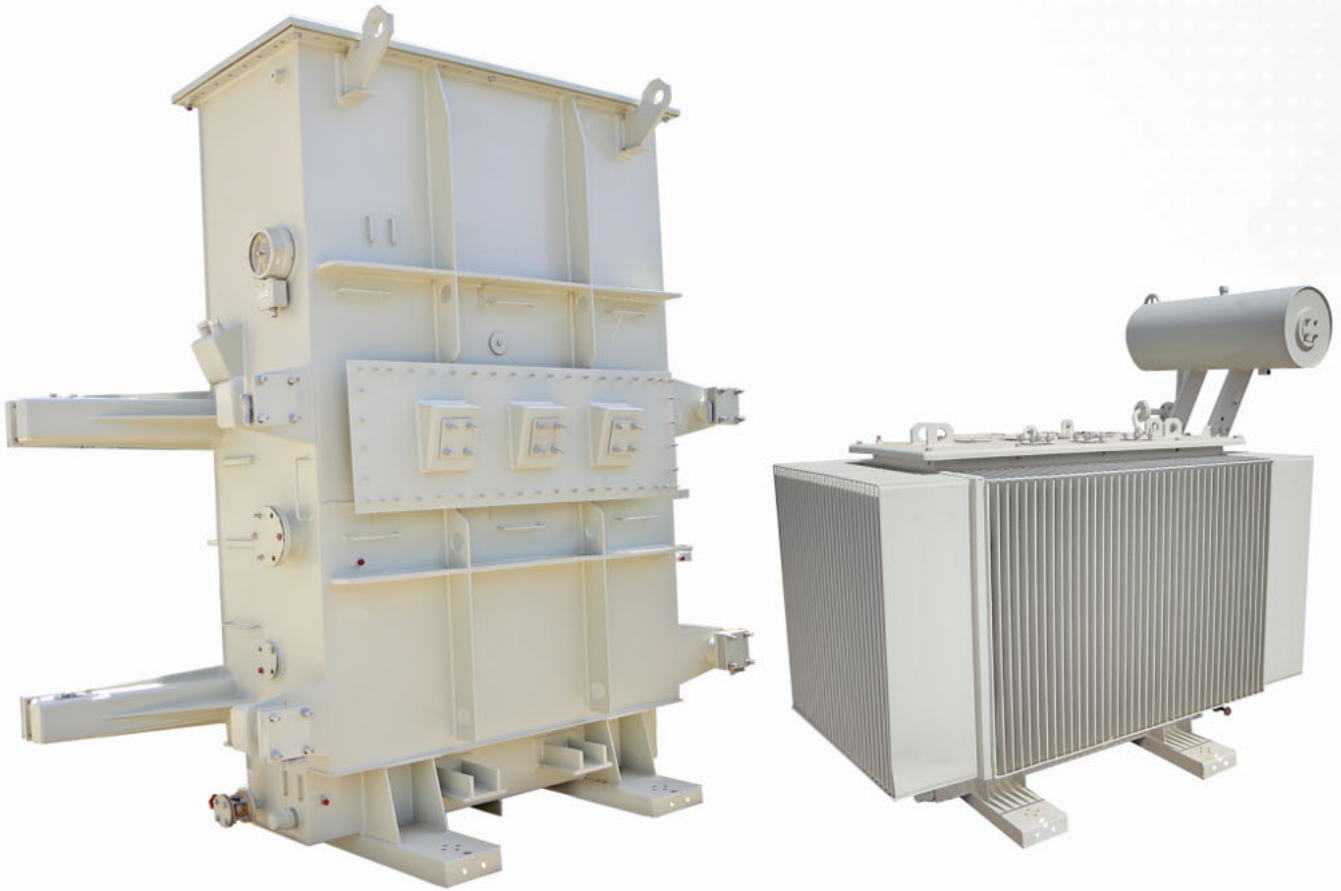


# Distribution transformer tanks



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## Arya Transfo Shargh Co. in brief

Arya Transfo Shargh Co. as one of the lead manufacturers in the ME provides oil immersed distribution transformers in highest quality according to International standards. Supported with a strong R&D department, the company is able to offer the state of art in engineering solutions and guarantees a continues development in its design. The ranges of products in terms of voltage and power rating are up to 36 kV and 5000 kVA. Arya Transfo Shargh Co. is able to design and manufacture any special transformer such as Electrostatic Precipitator (ESP) rectifier transformer, Multi-winding transformer, etc.

### Tank: Design and Manufacturing

Tanks are fabricated from low carbon steel M.S. sheets. Four type of tanks produce which are the following:

- Hermetically sealed with corrugated wall
- Hermetically sealed with gas cushion
- Conservator type with corrugated wall
- Conservator type with radiator

Inner surface of tanks are completely cleaned and coated with varnish resistant to transformer oil and heat with the thickness of min. 30 microns.



Two methods are used for outer surface coating: electrostatic and liquid painting. As the default, electrostatic painting consists of two layers with the total thickness of 120 microns is used. Due to high transfer rate of paint to metal surfaces in electrostatic method, it leads to tolerate 1200 hours of salt spray test that is beyond the hot-dip galvanized coatings withstand. upon customer request, liquid painting method is employed in which three-layer polyurethane paint is performed with the total thickness of 240 microns. As our default, the final layer is painted in RAL 7032 however other paints are applicable upon customer request.

Shot blasting is carried out on all raw materials in initial stage as well as on the completed tank before painting process. The shot blast chamber for completed tanks supported by German manufacturer Wheelabrator Co.

The entire production line has equipped with the most advanced machinery provided by well-known brands in the market. The computer-controlled fin folding machine with robot-welding system to manufacture high quality corrugated walls supplied by well-known German manufacturer GEORG GmbH. Also, a CNC LASER cut machine is employed for precise steel cutting such as cover, tank base etc.



After the construction of each tank, a leakage test is performed through special process before painting.

In addition, a final leakage test is routine for all transformers. The radiator type tanks are also designed and produced to withstand the vacuum and pressure test as per IEC60076 standard.

The tank will be delivered in a special packing, which is suitable for export in order to avoid possible damages during the transportation. If needed, oil-resistant NBR gaskets are delivered with the tank. Upon customer request, it is possible to assemble all metal parts and equipment.

Arya Transfo Shargh Co. is capable to design and produce full vacuum/leak proof transformer tanks with metal parts such as cable boxes, conservator, turrets based on both customer's request and own technical design knowledge. In case of design request, some information such as heat dissipated, cooling system, equipment, fixing point of active part and etc. shall be clarified. Furthermore, Arya transfo is ready to provide relevant consultations about the design of transformer tanks for the valuable customers.