



## SUBMERSIBLE TRANSFORMERS



**The Rymel brand line of submersible** transformers offers very reliable equipment that is used in underground installations (vaults) exposed to flooding.

The tank of these transformers is made of high quality stainless steel sheet and with a special electrostatic paint coating, which allows a surface of great resistance and durability in corrosive environments.

Additionally, the equipment has dead-end bushings and special elements for protection and maneuvering, which are located on the tank lid, which facilitates operations using a pole from the surface, even in flood conditions.



TECHNICAL CHARACTERISTICS		
	ONE PHASE	THREE PHASES
CAPACITY	From 5 kVA up to 500 kVA	From 30 kVA up to 2500 kVA
PHASES	1	3
TENSION	Up to 36 kV	
BIL	Up to 150 kV	
WINDING MATERIAL	Aluminum or copper	
COOLING CLASS	ONAN	
FREQUENCY	60 0 50 Hz	
TAP CHANGER	± 2, 2.5% or according to customer requirements.	
TYPE	Radial or Loop Feed.	
TEMPERATURE RAISE	55 °C / 55 °C	
TYPE OF EFFICIENCY	Class A, B, C or D; DOE	
TYPE OF INSULATION	Mineral or Biodegradable.	
TANK	Manufactured with cold rolled and hot rolled sheet steel with a desing that allows it to withstand internal pressure and mechanical syress. Or with stainless steel.	
PAINT SYSTEM	Special electrostatic paint of great resistance and durability, especially for outdoors and corrosive enviroments.	
LID	Lid made of welded or bolted stainless steel, with a design that prevents the accumulation of water on its surface.	
ACCESSORIES	<ul style="list-style-type: none"> <li>- Bushings of the dead front type, weldable well type.</li> <li>- Low bushings with threaded stud.</li> <li>- Support for parking hubs.</li> <li>- Low Voltage Terminal Connectors</li> <li>- Special overpressure valve for submersible equipment. <ul style="list-style-type: none"> <li>- Oil level gauge.</li> <li>- Drain valve.</li> <li>- Grounded.</li> <li>- Lifting and fixing devices.</li> </ul> </li> <li>- Nameplate made of high-strength anodized aluminum.</li> <li>- Tap changer.</li> </ul>	
ELEMENTS OF PROTECTION AND MANEUVER	<ul style="list-style-type: none"> <li>- Removable and interchangeable Bay-O-Net type fuses, which protect equipment against extreme network failures and overloads.</li> <li>- Built-in limiting fuses that protect the primary network from high current faults in the windings.</li> <li>- DPS or elbow-type overvoltage arresters, which protects the equipment against overvoltages produced in the network.</li> <li>- Disconnecter with opening capacity under load, which allows maneuvering operations.</li> </ul>	
STANDARD	NTC 4406, IEEE C57.12.24, IEEE C57.12.23, RETIE.	