



The transformers are designed for testing high voltage electrical equipment with power frequency voltage including tests at the site.

These transformers are featured with fire- and explosion safety, relatively small overall dimensions and mass. They practically have no any harmful environmental effect, are resistant to repeated impacts of mechanical and climatic factors during their transportation. These transformers are practically maintenance-free. Due to high values of PD voltage the transformers can be used for tests with PD measurement.

Exterior of a representative model of these transformers is shown in photo and Figure.

The test transformer active part, comprising magnetic core, layer windings and shields of a special shape, is placed in a gas-tight tank, pos.1.

Outlet terminals of the primary winding and neutral of the secondary winding are connected to the bushing insulators, which are closed with a cover, pos.2.

Line terminal of the secondary winding is led outwards through glass-epoxy cylinder, pos.3.

Filling of the transformer with SF₆ is made through bellows valve pos. 4, pressure checking – by means of a pressure-gauge, pos.5.

In the transformer design the rolls, pos.6 are foreseen for transformer displacing within the test laboratory without hoisting devices.

At the Customer's request a capacitance- or inductance voltage divider and coupling capacitor can be built-in into the transformer, providing the following: measurement of high voltage applied to the test object, measurement of PD, capacitance and loss-angle tangent in insulation of the test object.

TECHNICAL CHARACTERISTICS

Name of parameters	Measurment unit	Value
Rated primary voltage	V	220
Rated secondary winding	kV	100
Load power at rated voltage		
- within 5 min	kVA	17,5
- within 30 min	kVA	11
PD extinction voltage, min	kV	90
PD level at voltage of 90 kV, max	pC	5
Rated frequency	Hz	50
Operating pressure of SF ₆ at t=20 ⁰ C, excessive	MPa	0,05
Mass	kg	260

On agreement between the Manufacturer and the Customer the above parameters and characteristics can be changed.



ISO 9001

 BUREAU VERITAS
Certification

№ UA227992


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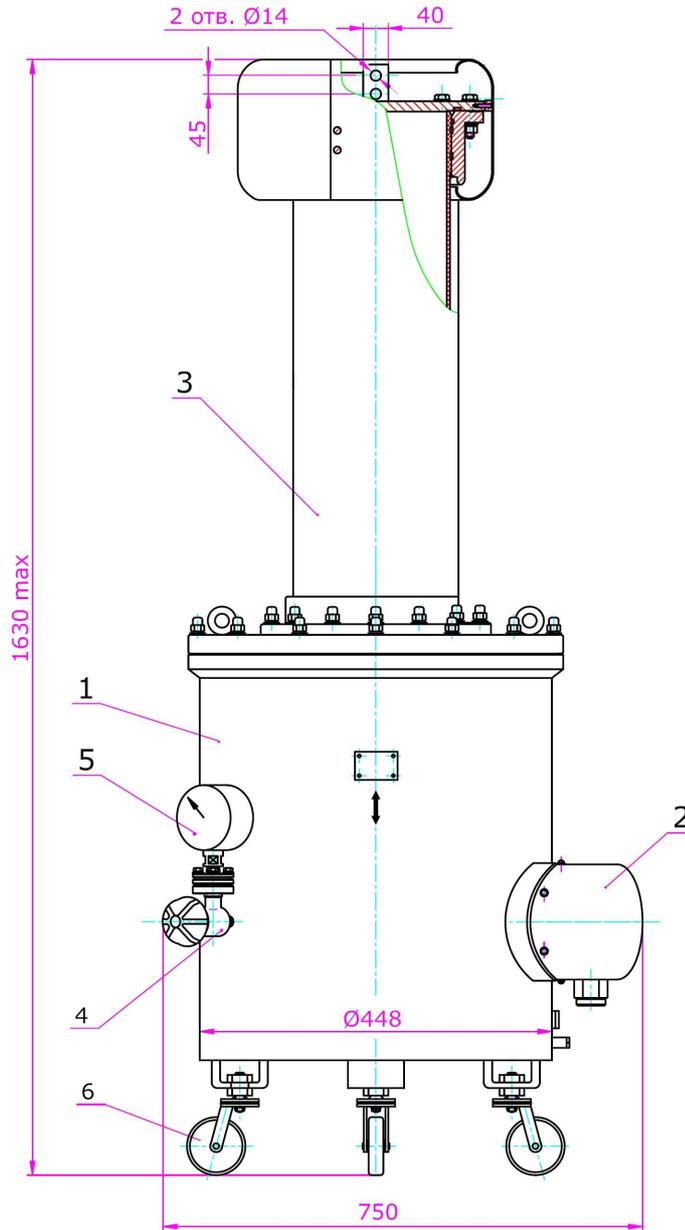
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Test installations

At the Customer's request test transformers can be completed with regulating transformers, switching equipment, line filters, measuring instruments, connection wires and cables which provide performance of power frequency voltage tests, including measurement of HV applied to the test object, its capacitance, loss-angle tangent and partial discharges.



1 - tank; 2 - cover; 3 – glass-epoxy cylinder; 4 – bellows valve; 5 – pressure gauge; 6 – roller.

Figure - SF₆ – insulated test transformer IOG-100-II