

WORKING STANDARD OF A FACTOR OF VOLTAGE SCALE CONVERSION KTG-330-I

9.7.6.8a 06.12.2016



Working standards of a factor of voltage scale conversion (KTG) are designed for application as a mean of verification of commercially produced voltage transformers.

Characteristic feature of KTG is that a common casing, filled with SF₆ to excessive pressure of 0,07 MPa, comprises a source of high voltage (step-up transformer), which is able to transmit power of a short duration up to 25 kVA, and a multi-range verification voltage transformer of 0,1 class of accuracy, which have common high voltage bushing.

KTG has a high degree of tightness. Leakage of SF₆ from the tank of the product does not exceed 1% of SF₆ mass per year.

KTG has no any harmful environmental effect, is fire- and explosion safe, has relatively small overall dimensions and mass, is resistant to repeated impacts of mechanical factors while transporting it by road. It allows to use KTG for verification of commercially produced voltage transformers at the site. The range of KTG working temperatures is from minus 10°C to + 35°C.

The representative model of the working standards of a factor of voltage scale conversion is KTG-330-I, having the following parameters and characteristics: the range of input voltages is from 20 to 380 V; the range of output voltages is from 12 to 230 kV; rated transformation ratios of the verification voltage transformer, being a part of the whole product are 1100,1500,2200 and 3300; rated frequency is 50 Hz.

Overall-, fitting-, interface dimensions and mass of KTG-330-I are indicated in the Figure.

At the Customer's request parameters and characteristics of KTG can be changed in order to provide determination of errors of commercially produced voltage transformers for any combinations of primary and secondary voltages, met in the world practice.



UKRAINIAN TRANSFORMER INSTITUTE

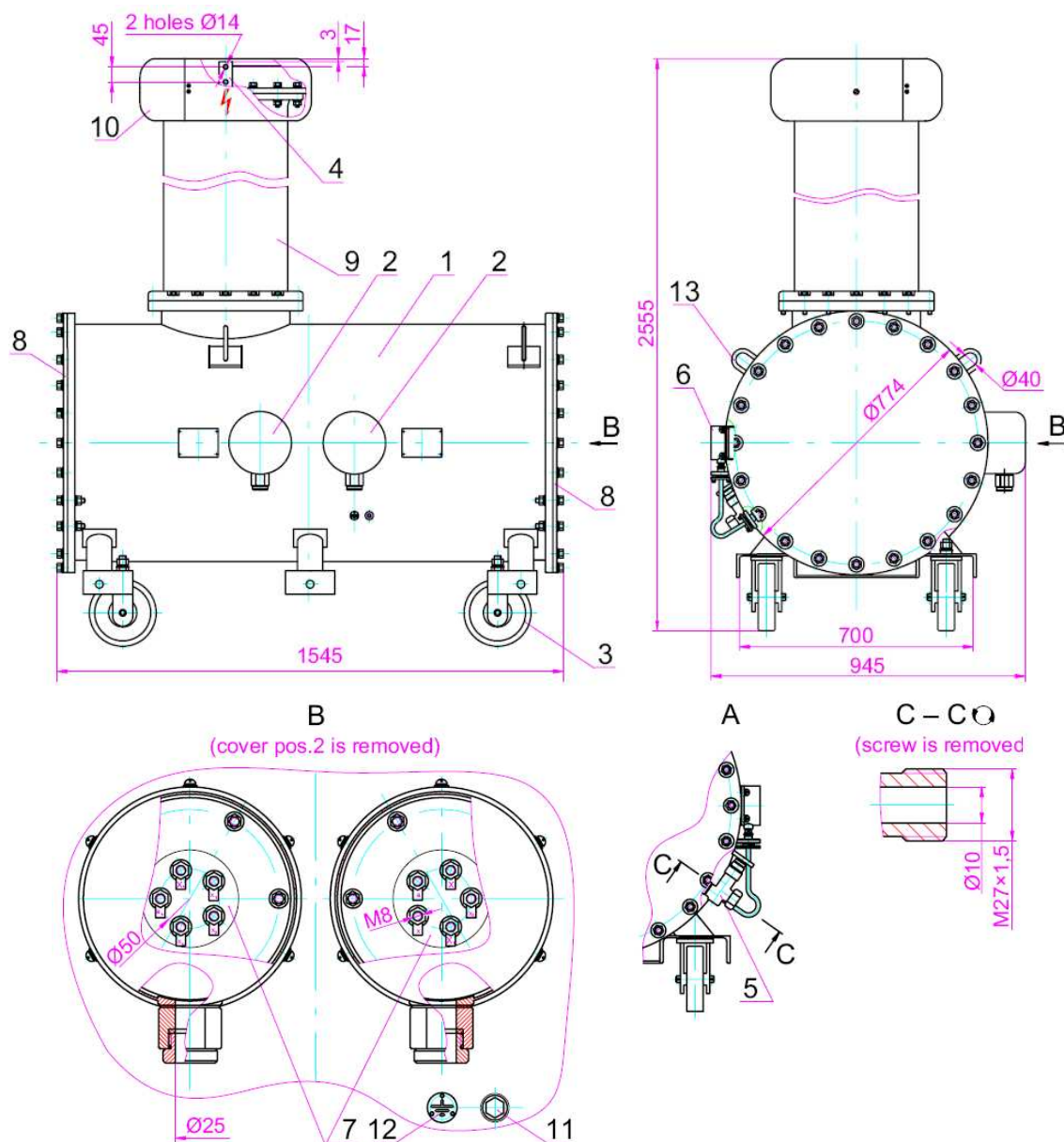
11, Dniprovske shose, Zaporizhzhya, Ukraine

Phone: 38/061/284-52-01, 284-52-51

Fax: 38/061/284-54-55, 284-54-00

E-mail: postmaster@vit.zp.ua, ogki@vit.zp.ua <http://www.vit.zp.ua>

WORKING STANDARD OF A FACTOR OF VOLTAGE SCALE CONVERSION KTG-330-I



1 - casing; 2 - cover; 3 - roller; 4 – plate of current lead (terminal “A”); 5 - valve;
6 - manometer; 7 – block of secondary terminals; 8 - cover; 9 – current lead; 10 - shield;
11 - earthing bolt; 12 – mark of earthing; 13 – lifting clamp.

**Figure - Standard of a factor of voltage scale conversion complete with
KTG-330-I power supply source**