



Oil BDV Test Set (Motorized & Manually Operated)

In all H.T. Transformers and Circuit Breakers etc. transformer oil or other insulant is a very important ingredient. The liquid insulant used should have a very high dielectric strength. To test the dielectric strength of the INSULANT, a very high voltage is passed through it. The failure of the dielectric strength of INSULANT is shown by a spark across two electrodes. The apparatus to carry out this test is manufactured by us in various voltage ranges and models, as per IS: 6792/1972 and IEC-156, known as **SAKOVA** OIL TEST SET.



Features:

The set comprises of the following parts viz. Control Panel, H.T. Transformer and Oil Test Cell (with electrodes & Gauge), housed in a sheet-metal cabinet, having an acrylic covered housing for Oil Test Cell.

CONTROL PANEL

- Continuously variable auto-transformer (variac) for smooth variation of output voltage, operated manually or by a constant speed synchronous motor, as desired.
- "MAINS" & "H.T." "ON & OFF" Switches, incorporating automatic tripping mechanism for protecting the H.T. Transformer against overloading.
- Voltmeter to monitor output voltage, calibrated in Kilovolts.
- Zero Start interlocking device, so that the set will not be energized unless the variac is brought back to zero output position.
- Two pilot lamps, green and red for "MAINS ON" and "HT ON" indications.
- Fuse for the L.T. side, one 3-Pin plug with 1.5 meter long cable for mains connection.



H.T. TRANSFORMER

- H.T. Transformer is RESIN CAST or OIL COOLED and of compact type, properly designed and treated for perfect tropicalization.

TEST CELL

- Test Cell is made of synthetic polymer and is mechanically tough, transparent and non-absorbent. The cell is complete with adjustable gap electrode arrangement and gauge, as per IS: 6792/1972.

SHOCK PROTECTION

- The above equipment is wired and housed in a highly finished sheet-metal cabinet. A hinged perspex cover is provided in the unit for covering the H.T. Terminals, with suitable interlocking device. The set will not be energized unless the cover is closed.

OVERLOAD PROTECTION

- A fast acting relay senses the primary current of the H.T. Transformer & protects the unit from overload and short circuit.

INTERLOCKING

- H.T. cover interlock and Zero-Start interlock are provided.

Technical Specification

Input:	240 Volts + 10% 50 Hz., Single Phase A.C.
Output:	Continuously variable between 0-60 KV, 80 KV or 100 KV AC
Capacity:	1000 VA.
Models:	Manually Operated & Motorized.
Dimensions/Weight:	60 KV: 375 x 450 x 375 mm. approx. /35 kgs. approx. 80 or 100 KV: 470 x 550 x 430 mm. approx. /65 kgs. approx.