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# Condenser Type Bushing Construction

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## **Condenser Type Bushing Construction**

Solid type (Bulk type) Bushings. Capacitance-graded (Condenser type) Bushings. 1. Solid Type Bushings. The

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solid-type electrical bushing is typically made with a central conductor and porcelain or epoxy insulators at either end and is used primarily at the lower voltages through 25 kV. Solid Type Bushing Construction.

## **Electrical Bushings - Types, Purpose and Construction with ...**

In condenser bushings, there are three main

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insulation systems used around the world which are as follows: • Resin Bonded Paper (RBP) Bushings • Oil Impregnated Paper (OIP) Bushings • Resin Impregnated Paper (RIP) Bushings

## **Condenser Bushings | Electrical India Magazine on Power**

...

The condenser bushing is made by inserting very fine layers of

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metallic foil into the paper during the winding process. The inserted conductive foils produce a capacitive effect which dissipates the electrical energy more evenly throughout the insulated paper and reduces the electric field stress between the energised conductor and any earthed material.

**Bushing (electrical) -**

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## Bushing **Wikipedia**

**Definition of Condenser Bushing:** A bushing in which metallic or nonmetallic conducting layers are arranged within the insulating material for the purpose of controlling the distribution of the electric field of the bushing, both axially and radially by capacitive grading.

## **White paper The future of condenser**



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**bushing technology  
and ...**

the method of making  
a condenser-type  
terminal bushing  
comprising the steps  
of: molding and curing  
an inner insulating  
layer of synthetic  
resinous material to a  
terminal stud with the  
end portions...

**US3146518A -  
Method of making a  
condenser-type  
terminal ...**

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The Type T bushing has a condenser consisting of oil-impregnated paper (or Nomex™ when the bushing is a high temperature design) wound on a central conductor. The condenser provides uniform distribution of electrical stresses and prevents damaging stress concentrations.

## **Type T, Condenser Bushing -**

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Based on the above, it can be said that the major difference between Resin Impregnated Paper (RIP) bushing technology and Oil Impregnated Paper (OIP) bushings is that in OIP technology the condenser cores are impregnated with transformer grade mineral oil that remains in a liquid phase throughout its

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entire life whereas in RIP bushings the impregnation is carried out via a curable epoxy resin to form a solid condenser.

## **Transformer Bushing Types : RIP Bushing vs OIP Bushing**

Compared to bulk type bushings, condenser bushings are relatively complex in their construction. In order to cope with the high electric field stresses

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generated at high voltage, condenser bushings are formed from an inner capacitance-graded insulated core, which is sandwiched between the central current carrying tube and external insulator.

### **Electrical Bushings - saVRee**

Condenser bushings provide greater dielectric strength and uniform voltage

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gradient. These bushings form a capacitor between the live conductor and the equipment body which is at ground potential.

## **High-Voltage Bushing Maintenance and Testing Explained**

The patent of Emile Haefely for Oil impregnated paper (OIP) condenser type bushings in 1937 was the basis for the

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success in the bushing market.

## **Bushings | Transmission Products | Global**

The condensers which are used in the Type T bushing are of the same proven construction, with low power factor and partial discharge levels, as found in Type O Plus C bushings. Solid or bulk type bushings are

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designated as Types A, RJ and LCRJ.

## **Bushings - ABB**

Type "0" THE TYPE "0" CONDENSER

BUSHINGS are

designed for oil circuit breaker and transformer applications.

Westinghouse bushings for circuit breakers are made by the Circuit Breaker Division at East Pitts burgh, Pennsylvania, while



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transformer bushings are made by the Transformer Division at Sharon, Pennsylvania.

## **INSTALLATION MAINTENANCE INSTRUCTIONS**

The two principal types of bushing construction are solid or bulk type and capacitance-graded (sometimes called condenser type). The bushings used for the low voltage winding(s) of a

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transformer are often solid type with a porcelain or epoxy insulator. Capacitance-graded bushings, designed for higher voltage ratings, are used for a transformer's high voltage winding.

## **Electrical test equipment application solutions from Megger**

Main bushing types  
and their components.

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Solid/bulk type bushing design (porcelain, composite resin silicon and cast resin). Basic concepts and construction of condenser bushings (capacitance graded bushings). Different condenser bushing technologies (RBP, OIP, RIP and RIS).

## **Electrical Bushing Online Video Course**

Compared to bulk type bushings, condenser

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bushings are relatively complex in their construction. In order to cope with the high electric field stresses generated at high voltage, condenser bushings are formed from an inner capacitance-graded insulated core, which is sandwiched between the central current carrying tube and external insulator.

**Oil to Air Condenser**

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## **Bushing - saVRee**

With the patent on Oil impregnated paper condenser type bushings in 1937, Emil Haefele laid the foundation for the Trench Bushing business. In Instrument transformers the Trench Group is a technology leader since 100 years, when in Italy the first paper oil Instrument transformers were produced.

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## **About us - Trench Group**

The active part of the bushing consists of an oil Impregnated Paper (OIP) core manufactured from superior grade Kraft insulating paper with condenser graded layers for field control wound under tension on central tube/ conductor. The innermost condenser layer is electrically

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connected to the fixing  
flange through a test  
tap.

## **Bushing of Transformer ( for H.V side and L.V side ...**

Condenser Bushings  
The Type IC condenser  
bushings rated 1200  
amperes, 23 kv  
through 69 kv are  
manufactured to ANSI  
standard dimensions.  
They are  
interchangeable with

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transformer bushings of the same current and voltage rating, and with bushings of same rating of other manufacturers built to ANSI standard dimensions.

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