

## **TECHNICAL SPECIFICATION and GUARANTEED TECHNICAL PARTICULARS**

### **of LV Porcelain Bushing**

**Supply of LV Porcelain Bushing 1.1 KV** suitable for 11/0.4 KV Transformers as per IS IS:3347 (Part-I, Sec-I)-1979&IS: 7421-1988 and with latest amendment, if any

1. 1.1 KV 1000 Amp. Suitable for 630 KVA Transformer
2. 1.1 KV 2000 Amp. Suitable for 1000 KVA Transformer

### **LT Porcelain Bushing**

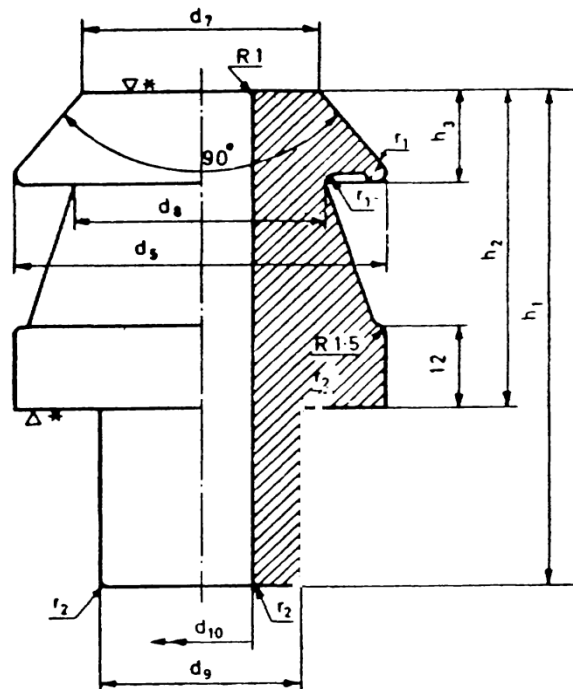
Sl. No.	PARTICULARS	Required values
1	Standards	IS 3347/7421 (Part-I, Sec-I 1979) with latest amendment, if any.
2	Electrical Characteristics of Insulators	
(a)	Nominal system voltage	1.1 KV
(b)	Highest system voltage	1.1 KV
(c)	Visible discharge voltage	As per IS
(d)	Dry one minute power frequency withstand voltage	As per IS
(e)	Wet one minute power frequency withstand voltage	As per IS
3	Colour of Glaze	Brown/Dark Brown
4	Dimensions	As per IS
5	Creepage distance (min)	As per IS
6	Tolerance in dimension, if any	As per relevant IS

#### **Note:-**

1. All specification and Testing should be as per relevant IS with latest amendment.
2. If facility of any acceptance test of above material is not available at firm's premises, then inspecting authority will send a sealed sample of the above material to NABL lab for such test and mentioned lot will be accepted only when it successfully pass in acceptance test. The cost of such test (s) shall be borne by the supplier firm.

# **Drawing & Dimensions** **of LV Porcelain Bushing**

**IS : 3347 ( Part I/Sec 1 ) - 1979**



Rating, kV/A		$d_6$	$d_7$	$d_8$	$d_9$	$d_{10}$	$h_1$	$h_2$	$h_3$	$r_1$	$r_2$
Up to and including	1/250	50	32	34	$27^{+0}_{-2}$	$14^{+1}_{-0}$	$70^{+0}_{-5}$	$45^{+3}_{-0}$	13	2.5	1
"	"	70	47	49	$43^{+0}_{-3}$	$22^{+2}_{-0}$	$80^{+0}_{-5}$	$55^{+4}_{-0}$	16	3	1
"	"	90	63	67	$53^{+0}_{-4}$	$32^{+3}_{-0}$	$85^{+0}_{-6}$	$55^{+4}_{-0}$	16	3	1.5
"	"	104	80	82	$66^{+0}_{-5}$	$44^{+3}_{-0}$	$85^{+0}_{-6}$	$55^{+4}_{-0}$	16	3	1.5
"	"	125	100	100	$86^{+0}_{-6}$	$50^{+4}_{-0}$	$85^{+0}_{-6}$	$55^{+4}_{-0}$	16	3	1.5

\*Unglazed.

△Surfaces ground parallel to each other and perpendicular to axis.

All dimensions in millimetres.

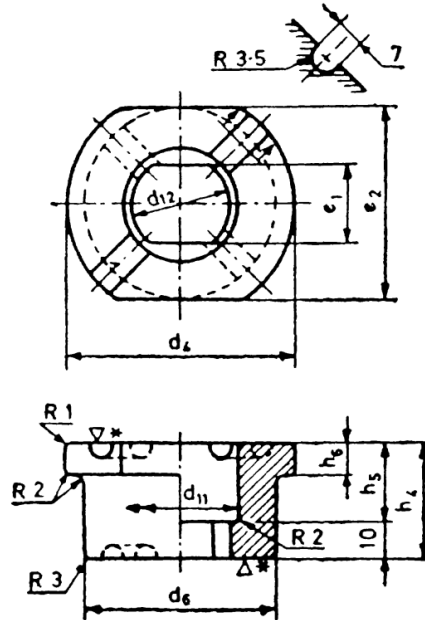
IA Upper Insulator

FIG. 1 PORCELAIN INSULATOR FOR 1/250, 630, 1000, 2000 AND 3150 BUSHINGS

( Continued )

**IA Upper Insulator**

IS : 3347 ( Part I/Sec 1 ) - 1979



Rating, kV/A		$d_4$	$d_4$ and $e_1$	$d_{11}$	$d_{12}$	$e_1$	$h_4$	$h_3$	$h_4$	$r_3$
Up to and including	1/250	60	50	$30^{+2}_{-0}$	$26^{+2}_{-0}$	$20^{+2}_{-0}$	$30^{+2}_{-0}$	$20^{+2}_{-0}$	8	2
„ „ „	1/630	85	70	$46^{+3}_{-0}$	$41^{+3}_{-0}$	$28^{+2}_{-0}$	$30^{+2}_{-0}$	$20^{+2}_{-0}$	8	3
„ „ „	1/1 000	110	90	$57^{+4}_{-0}$	$46^{+3}_{-0}$	$37^{+3}_{-0}$	$35^{+3}_{-0}$	$25^{+2}_{-0}$	10	4
„ „ „	1/2 000	125	104	$70^{+5}_{-0}$	$64^{+4}_{-0}$	$51^{+4}_{-0}$	$35^{+3}_{-0}$	$25^{+2}_{-0}$	10	4
„ „ „	1/3 150	150	125	$90^{+6}_{-0}$	$80^{+5}_{-0}$	$61^{+4}_{-0}$	$35^{+3}_{-0}$	$25^{+2}_{-0}$	12	4

NOTE — This figure has been shown with slots. These slots are required for 250 and 630 A lower insulator.

\*Unglazed.

$\Delta$  Surfaces ground parallel to each other and perpendicular to axis.

All dimensions in millimetres.

IB Lower Insulator

FIG. 1 PORCELAIN INSULATOR FOR 1/250, 630, 1000, 2000 AND 3150 BUSHINGS

IB Lower Insulator