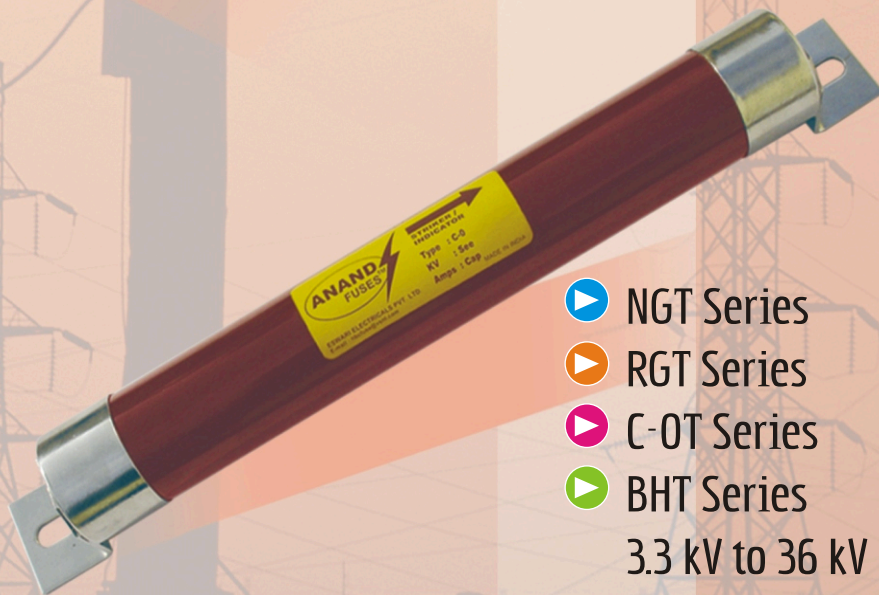




**Eswari**  
Excellence in Protection

# Transformer Protection Fuses



- ▶ NGT Series
  - ▶ RGT Series
  - ▶ C-OT Series
  - ▶ BHT Series
- 3.3 kV to 36 kV

## Transformer Protection Fuses

ESWARI (ANAND) Fuses offers wide range of transformer protection fuses in accordance to DIN & BS Standard. Back up fuses are generally used for protecting transformer in the distribution network between 3.3 kV / 3.6 kV to 33 kV / 36 kV. These fuses are capable of breaking any fault current between the minimum breaking current ( $I_3$ ) and the rated breaking current ( $I_1$ ). Selection of the fuse shall be made from the selection table and in accordance to the standards.

ESWARI (ANAND) Fuses range transformer protection are available in the following series,

- **NGT series :**  
 Comply with DIN 4325 of VDE 0670 T4 & IEC 60282 - I standard.  
 They also Offer safe interchangeability to any World standards.
- **C- O series :**  
 Comply with BS 2692 & IEC 60282 - Standard. Fitted with End tags for rigid Bolt & Nut fixing.
- **RGT series :**  
 Fitted with TA3 Tag arrangement for rigid Bolt & Nut fixing
- **BHT series :**  
 Comply with BS 2692 & IEC 60282 -1.  
 Suitable for Installation in Oil Insulated (Oil Immersed) Switchgear.

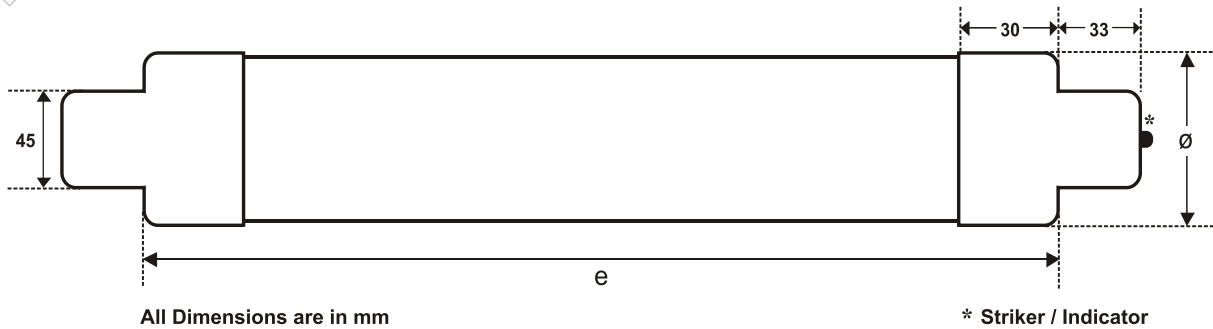
### NGT Series

Type	Rated Voltage kV $U_N$	Rated Current A $I_N$	Catalogue No.	Dimensions in mm		Max. Power Dissipation (Watts)	Rated Breaking Capacity kA $I_1$	Weight / unit in Kg
				e	ø			
NGTW	3.6 / 7.2	6.3	NGTW 6	292	63.5	5	60	2
		10	NGTW 10			8		
		16	NGTW 16			10		
		20	NGTW 20			13		
		25	NGTW 25			14		
		31.5	NGTW 32			19		
		40	NGTW 40			23		
		50	NGTW 50			25		
		63	NGTW 63			36		
		80	NGTW 80			45		
		100	NGTW 100			52		

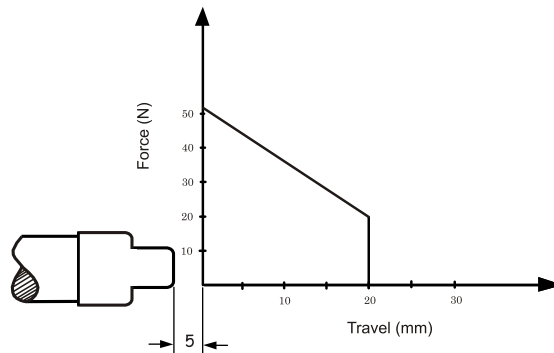
Type	Rated Voltage kV $U_N$	Rated Current A $I_N$	Catalogue No.	Dimensions in mm		Max. Power Dissipation (Watts)	Rated Breaking Capacity kA $I_b$	Weight / unit in Kg
				e	ø			
NGT WA	3.6 / 7.2	125	NGTWA 125	292	85	62	60	4
		160	NGTWA 160			79		
		200	NGTWA 200			97		
NGT WB	3.6 / 7.2	250	NGTWB 250	442	85	125	50	6
		300	NGTWB 300			135		
NGT X	11 / 12	6.3	NGTX 6	292	63.5	5	60	2
		10	NGTX 10			14		
		16	NGTX 16			11		
		20	NGTX 20			13		
		25	NGTX 25			20		
		31.5	NGTX 32			27		
		40	NGTX 40			40		
		50	NGTX 50			49		
63	NGTX 63	67						
NGT XA	11 / 12	80	NGTXA 80	292	85	76	40	4
		100	NGTXA 100			89		
		125	NGTXA 125			95		
NGT XB	11 / 12	160	NGTXB 160	442	85	103	40	6
		200	NGTXB 200			128		
NGT Y	22 / 24	6.3	NGTY 6	442	63.5	17	40	4
		10	NGTY 10			20		
		16	NGTY 16			22		
		20	NGTY 20			26		
		25	NGTY 25			30		
		31.5	NGTY 32			38		
		40	NGTY 40			49		
		50	NGTY 50			53		
63	NGTY 63	82						
NGT YA	22 / 24	80	NGTYA 80	442	85	108	31.5	6
		100	NGTYA 100			134		
		125	NGTYA 125			178		
NGT YB	22 / 24	160	NGTYB 160	537	85	230	31.5	7
		200	NGTYB 200			280		

Type	Rated Voltage kV $U_N$	Rated Current A $I_N$	Catalogue No.	Dimensions in mm		Max. Power Dissipation (Watts)	Rated Breaking Capacity kA $I_b$	Weight / unit in Kg
				e	$\varnothing$			
NGT Z	33 / 36	6.3	NGTZ 6	537	63.5	27	31.5	7
		10	NGTZ 10			38		
		16	NGTZ 16			49		
		20	NGTZ 20			60		
		25	NGTZ 25			72		
		31.5	NGTZ 32			91		
		40	NGTZ 40			102		
		50	NGTZ 50			127		
		63	NGTZ 63			148		
		80	NGTZ 80			162		
		100	NGTZ 100			178		

## Dimension Drawings



## Striker Characteristics

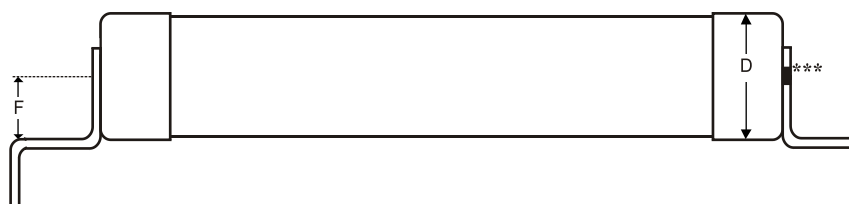
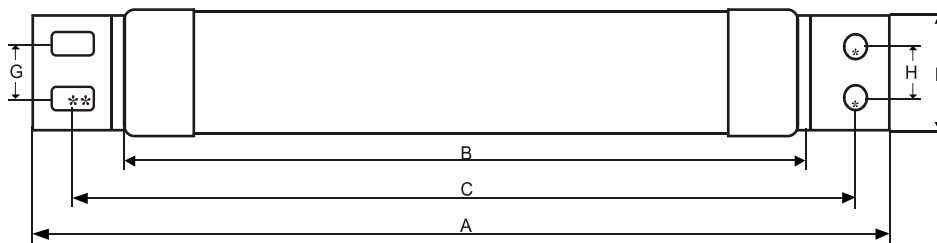


Din fuse links are equipped with a combined indicator and striker system, which operates immediately when the fuse is subjected to fault conditions.

# RGT Series

Type	Rated Voltage kV $U_N$	Rated Current A $I_N$	Catalogue No.	Max. Power Dissipation (Watts)	Rated Breaking Capacity kA $I_b$	Weight / unit in Kg
RGT X	11 / 12	6.3	RGT X 6	4	40	3
		10	RGT X 10	7		
		16	RGT X 16	9		
		20	RGT X 20	11		
		25	RGT X 25	13		
		31.5	RGT X 32	22		
		40	RGT X 40	37		
		50	RGT X 50	39		
RGT XA	11 / 12	80	RGT XA 80	67	40	4
		100	RGT XA 100	69		
		125	RGT XA 125	74		
		160	RGT XA 160	85		

## Dimension Drawings



\* Hole 11 mm  
 \*\* Slot 23 x 13 mm  
 \*\*\* Striker / Indicator

TA 3 tag arrangements

## Dimension Table

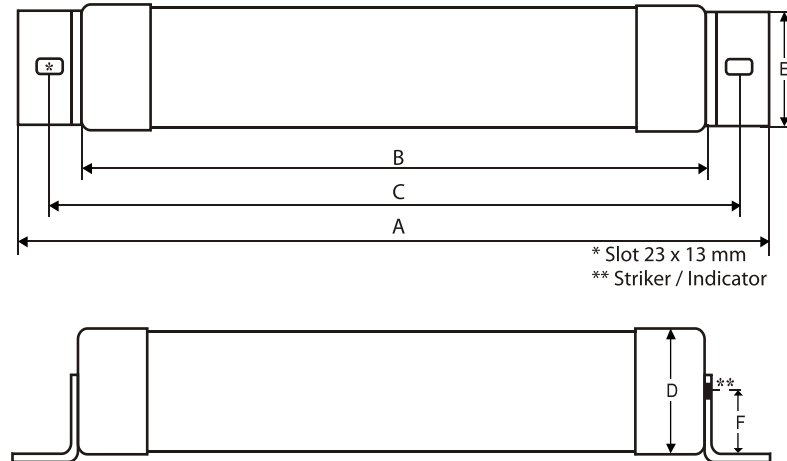
All Dimensions are in mm

Type	A	B	C	D	E	F	G	H
RGT X	462	359	419	63.5	63	41	38	38
RGT XA	462	359	419	85	63	41	38	38

## C-OT Series

Type	Rated Voltage kV $U_N$	Rated Current A $I_N$	Catalogue No.	Max. Power Dissipation (Watts)	Rated Breaking Capacity kA $I_b$	Weight / unit in Kg
CO XT	11 / 12	6.3	CO XT 6	8	40	3
		10	CO XT 10	10		
		16	CO XT 16	11		
		20	CO XT 20	12		
		25	CO XT 25	18		
		31.5	CO XT 32	28		
		40	CO XT 40	38		
		50	CO XT 50	44		
		63	CO XT 63	49		
CO X AT	11 / 12	80	CO XT 80	52	31.5	5
		100	CO XT 100	56		
		125	CO XT 125	67		
		160	CO XT 160	74		
		200	CO XT 200	84		
CO YT	22 / 24	6.3	CO YT 6	10	40	5
		10	CO YT 10	12		
		16	CO YT 16	15		
		20	CO YT 20	22		
		25	CO YT 25	26		
		31.5	CO YT 32	41		
		40	CO YT 40	63		
		50	CO YT 50	68		
		63	CO YT 63	73		
CO Y AT	22 / 24	80	CO YT 80	63	31.5	6
		100	CO YT 100	91		
		125	CO YT 125	100		
		160	CO YT 160	114		
		200	CO YT 200	129		
CO ZT	33 / 36	6.3	CO ZT 6	14	31.5	7
		10	CO ZT 10	20		
		16	CO ZT 16	21		
		20	CO ZT 20	27		
		25	CO ZT 25	31		
		31.5	CO ZT 32	45		
		40	CO ZT 40	68		
		50	CO ZT 50	81		
		63	CO ZT 63	95		

## Dimension Drawings



## Dimension Table

All Dimensions are in mm

Type	A	B	C	D	E	F
CO XT	460	359	415	63.5	57	36.5
CO X AT	460	359	415	85	63	43.5
CO YT	533	439	494	63.5	57	36.5
CO Y AT	541	439	497	85	63	43.5
CO ZT	634	533	589	63.5	57	36.5

## Fuse Selection Table

Transformer rated capacity in kVA	Line Voltage in kV		
	11/12 kV	22/24 kV	33/36 kV
	<b>Rated current of the Fuse Link [A]</b>		
50	10	6	6
75	10	6	6
100	16	10	6
125	16	10	6
160	20	10	10
200	25	16	10
250	31.5	16	16
315	40	20	20
400	50	25	20
500	63	31.5	20
630	80	40	25
800	100	50	31.5
1000	125	63	40
1250	160	80	50

# BHT Series

## Fuse Protection for Oil Insulated Switchgear

Type	Rated Voltage kV U <sub>N</sub>	Rated Current A I <sub>N</sub>	Catalogue No.	Dimensions in mm		Max. Power Dissipation (Watts)	Rated Breaking Capacity kA I <sub>b</sub>	Weight / unit in Kg
				e	ø			
BHTW	3.6 / 7.2	6.3	BHTW 6	254	63.5	2.5	40	2
		10	BHTW 10			4		
		16	BHTW 16			4.7		
		20	BHTW 20			5.5		
		25	BHTW 25			8		
		31.5	BHTW 32			10		
		40	BHTW 40			16		
		50	BHTW 50			18		
		63	BHTW 63			25		
		80	BHTW 80			30		
		100	BHTW 100			37		
BHTWA	3.6 / 7.2	125	BHTWA 125	359	85	46	40	3.5
		160	BHTWA 160			52		
		200	BHTWA 200			63		
BHTX	11 / 12	6.3	BHTX 6	254	63.5	2.7	40	2
		10	BHTX 10			4		
		16	BHTX 16			6		
		20	BHTX 20			7.5		
		25	BHTX 25			12		
		31.5	BHTX 32			19		
		40	BHTX 40			30		
		50	BHTX 50			34		
63	BHTX 63	41						
BHTXA	11 / 12	80	BHTXA 80	359	85	37	40	3.5
		100	BHTXA 100			43		
		125	BHTXA 125			48		
		160	BHTXA 160			53		
		200	BHTXA 200			65		
BHTZ	22 / 24	6.3	BHTX 6	359	63.5	6	40	3.5
		10	BHTX 10			8		
		16	BHTX 16			10		
		20	BHTX 20			15		
		25	BHTX 25			19		
		31.5	BHTX 32			26		
		40	BHTX 40			36		
50	BHTX 50	42						

Dimension Drawing

