雷电

Nanjing Electric HV Bushing Co.,Ltd

www.nanjing-electric.com

HUNDRED YEARS BPG,
BPG OF THE WORLD

Catalogue

The Company as a high-tech enterprise, possesses multitier patented technologies such as dry-type capacitor core and dry-type HV bushing. Besides, it is fully implementing ISO 9001 quality management system. Series products of GFRP reinforced dry-type HV bushing have already passed the inspection conducted by the authorities. The experts attending meeting organized by China Electricity Council and China Machinery Industry Federation for appraisal of new products draw the same conclusion: structure is original and reasonable, performance achieves domestic leading level. Product obtained second prize of industry science and technology progress and China machinery industry science and technology prize successively, which was listed as China Torch Plan and National Key New Product.

Company Qualification


质量管理体系认证证书


环境管理体系认证证书


职业健康安全管理体系认证证书


采用国际标准产品标志证书


检测报告

Product Presentation

Product Overview

Fiberglass Reinforced Plasti c (GFRP) Dry-type Capacitive Bushing

The major insulation of GFRP Dry-type Capacitance Bushing is fiberglass capacitor core, which is made by solidifying alternatively wound and interval arranged insulating layer (made by winding, intersecting and superimposing high-insulation fiberglass mmersed in ultra-low-viscosity high-temperature-resistant epoxy resin by microcomputer control winding equipment according to geodesic) and capacitor screen (made of semiconductor adaptive materials) in high temperature. Coupling flange is made of high-strength aluminum alloy, which is cemented with capacitor core as a whole. Creepage extenders are injected and shaped with silicon rubber once on the surface of capacitor core, to be an organic integrity with the capacitor core. This bushing was invented in 2001, which has small volume, light weight, maintenance-free, high mechanical strength and safety and reliable during operation, and has good reputation by users. The consumption increased year by year, the cumulative operation has amounted to more than hundreds.

Resin Impregnated Paper (for short RIP) capacitor bushing

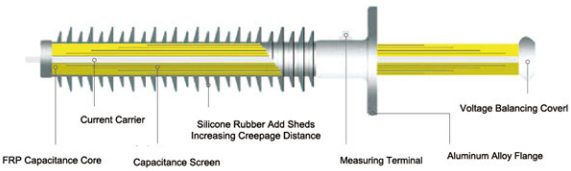
The main insulation of RIP Dry Bushing is RIP capacitor core, which adopts insulated paper and aluminum foil that are alternately intertwined on the conducting pipe (rob) and solidified after vacuum dry and immersed epoxy resin in the high temperature. RIP dry-type bushing is sealing assembled by capacitor core connecting coupling flange and porcelain sleeve or composite hollow insulator.

This dry-type and oil-free bushing has been widely used in Europe, America and Japan since its invention in 1960 depend on its incomparable advantages. We has fully brought in talents with many years of manufacturing experience and imported fully automatic manufacturing equipment from Germany,

Vacuum Epoxy Resin Impregnated Fiberglass (RIF) Capacitive Dry-type Bushing

The major insulation of RIF Capacitor Dry-type Bushing is vacuum epoxy resin adhesive impregnated fiberglass capacitor core, which adopts insulating layer made from superimposing high-insulated fiberglass and capacitor screen made from conductor or semiconductor materials, they are interval twined to meet the design requirement, then solidified in high temperature after immersed epoxy resin mixture under vacuum condition. Vacuum epoxy resin impregnated fiberglass capacitor dry-type bushing consists of vacuum epoxy resin impregnated fiberglass capacitor core, coupling flange, outer-insulated creepage extenders and other accessories. The RIF Capacitor Dry-type Bushing was invented in 2010 depending on our many years manufacturing experiences, which combine the high insulation property of RIP bushing and excellent mechanical property of GFRP dry-type bushing, so it has higher insulated property and more stable operation.

>>> Bushing structure characteristics



Cross section of capacitor core

>>> Demonstration Of The Type

RIP Dry-Type Capacitive Transformer Bushing

F(C) V E D B R L— ***/****—4

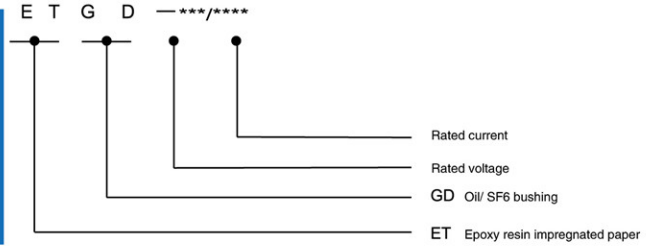
- Pollution class
- Rated current
- Rated voltage
- L Reserved position(no CT terminal ,then no position)
- R Capacitive
- B Transformer bushing
- D Current-carrying (if Draw lead type no this letter)
- E Fiberglass impregnated epoxy
- V Vacuum
- F Composite shell (C is Porcelain)

RIP Dry-type Transformer Bushing

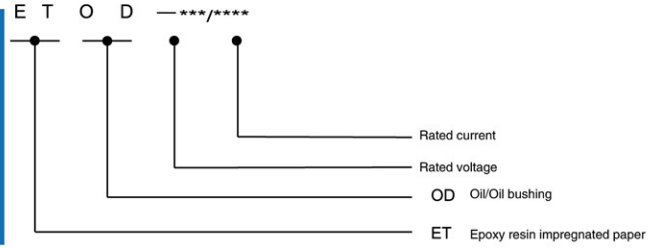
F(C) E T —***/****

- Rated current
- Rated voltage
- ET Epoxy resin impregnated paper
- F Composite shell (C is porcelain shell)

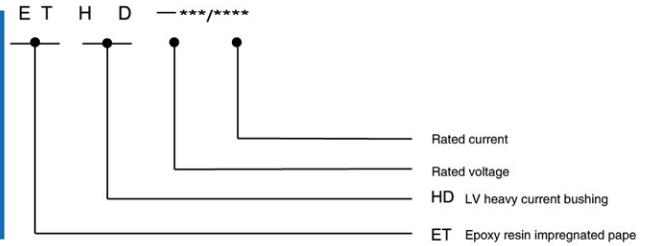
RIP Dry-type Oil/SF6 Bushing



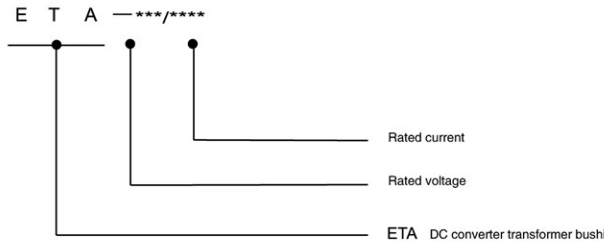
RIP Dry-type Oil/Oil Bushing



RIP Dry-type LV Heavy Current Bushing



DC Converter Transformer Bushing



Note: Before the type demonstration, N means self-diagnosed type bushing, Z means intelligent type bushing

Main customer

国家电网公司 STATE GRID CORPORATION OF CHINA

中国南方电网 CHINA SOUTHERN POWER GRID

中国国电集团公司 CHINA GUODIAN CORPORATION

中国大唐集团公司 China Datang Corporation

中国电力投资集团公司 CHINA POWER INVESTMENT CORPORATION

中国华能集团公司 CHINA HUANENG GROUP

中国华电集团公司 CHINA HUADIAN CORPORATION

中广核 CGN

中国铁路总公司 CHINA RAILWAY

中国西电集团公司 CHINA XD GROUP

天威集团 TIANWEI GROUP

TBEA 特变电工

HUAPENG 华鹏

泰开 TK

SIEMENS

AREVA

ABB

HYOSUNG 韩国晓星变压器

HYUNDAI HEAVY INDUSTRIES CO.,LTD.

ALSTOM

TOSHIBA 東芝

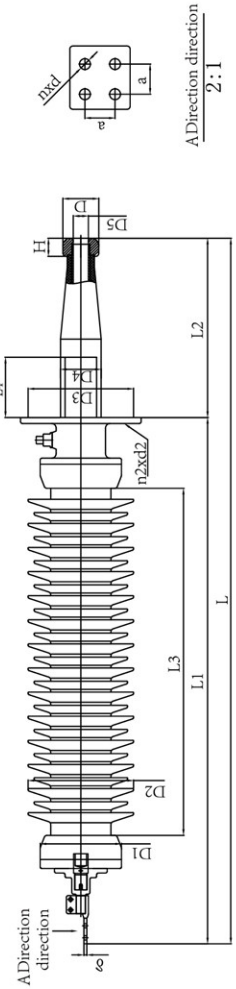
RIP Dry-type Composite Transformer Bushing (Draw Lead Type)

Main Performance	
Technical standard	GB/T4109-2008 IEC60137 Ed.6.0
Rated voltage	126KV
Rated current	630-1250A
1 min power frequency dry voltage withstand	255 (230) KV
Full-wave impulse withstand voltage of lighting	550KV
Under 1.5 highest phase voltage tan δ	≤ 0.004
Partical discharge under rated voltage	≤ 10pC
Bending test load	2000-3150N
Minimum nominal creepage distance	31mm/KV

Main dimension (m m) / Type	Total length of bushing	Wiring terminal			Head diameter	Compound external insulation			Flange		Total length of immersed part	The diameter of main insulation in oil	Total length of immersed part	Min earthing length in oil	Balancing voltage bail		Weight
	L	nxd	Hole number and distance	a	Head thickness	D1	L3	S	D2	D3	n2xd2	L2	D4	D5	L4	H	D	kg
FET-24/630	900	4x14	40	8	185	425	750	288	185	6x15	260	92	35	100			
FET-40.5/630	1050	4x14	40	8	185	430	1020	288	185	6x15	250	92	35	50			
FET-72.5/630	1960	4x14	40	10	240	700	2250	288	280	6x18	690	100	38	400			
FET-72.5/1250	1960	4x18	50	13	270	700	2250	314	280	6x18	690	120	60	400			
FET-126/630	2577	4x14	40	10	240	1152	3390	314	350	6x24	820	110	38	410			
FET-126/1250	2620	4x18	50	13	270	1152	3916	340	350	6x24	840	135	60	400			
FET-145/1250	2763	4x18	50	13	270	1235	4495	350	350	6x24	900	141	60	400			
FET-170/630	2833	4x14	40	10	300	1487	5800	380	350	6x24	1000	170	60	400	110	170	
FET-170/1250	2853	4x18	50	13	300	1487	5800	380	350	6x24	1000	170	60	400	110	170	
FET-252/630	4825	4x14	40	10	380	2142	6930	424	680	12x19	1880	220	60	750	130	240	
FET-252/1250	4030	4x18	50	13	380	2142	7820	443	500	12x24	1240	220	60	750	130	240	
FET-363/630	6330	4x14	40	10	450	3720	12380	500	660	12x24	1800	282	60	500	190	290	
FET-363/1250	6350	4x18	50	13	450	3720	12380	500	660	12x24	1800	282	60	500	190	290	
FET-420/630	6810	4x14	40	10	500	4180	11550	470	500	12x24	1820	328	60	600			
FET-420/1250	6640	4x18	50	13	500	4180	14322	562	500	12x18	1650	328	60	430			

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size

RIP Dry-type Porcelain Transformer Bushing (Draw Lead Type)

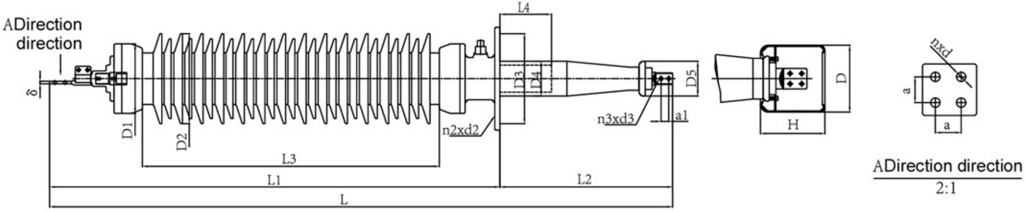


Main Performance	
Technical standard	GB/T4109-2008 IEC60137 Ed.6.0
Rated voltage	126KV
Rated current	630-1250A
1 min power frequency dry voltage withstand	255 (230) KV
Full-wave impulse withstand voltage of lighting	550KV
Under 1.5 highest phase voltage tan δ	≤ 0.004
Partical discharge under rated voltage	≤ 10pC
Bending test load	2000-3150N
Minimum nominal creepage distance	31mm/KV

Type	Main dimension (m m)		Wiring terminal			Head	Compound external insulation			Flange			Min. earthing length in oil	Balancing voltage ball		Weight
	Total length of bushing	Hole number and diameter	Hole distance	Panel thickness	Head diameter	Insulation clearance	Nominal creepage distance	Minimum protected diameter	Center distance of hole	Hole number and diameter	Total length of immersed part	The length from the flange to oil	Total length of immersed part			
	L	nxd	a	s	D1	L3	S	D2	D3	n2xd2	L2	D4	D5	L4	H	D
CET-24/630	900	4x14	40	8	185	425	750	288	185	6x15	260	92	35	100		
CET-40.5/630	1050	4x14	40	8	185	430	1020	288	185	6x15	250	92	35	50		
CET-72.5/630	1960	4x14	40	10	240	700	2250	288	280	6x18	690	100	38	400		
CET-72.5/1250	1960	4x18	50	13	270	700	2250	314	280	6x18	690	120	60	400		
CET-126/630	2577	4x14	40	10	240	1152	3390	314	350	6x24	820	110	38	410		
CET-126/1250	2620	4x18	50	13	270	1152	3916	340	350	6x24	840	135	60	400		
CET-145/1250	2763	4x18	50	13	270	1235	4495	350	350	6x24	900	141	60	400		
CET-170/630	2833	4x14	40	10	300	1487	5800	380	350	6x24	1000	170	60	400	110	170
CET-170/1250	2853	4x18	50	13	300	1487	5800	380	350	6x24	1000	170	60	400	110	170
CET-252/630	4825	4x14	40	10	380	2142	6930	424	680	12x19	1880	220	60	750	130	240
CET-252/1250	4030	4x18	50	13	380	2142	7820	443	500	12x24	1240	220	60	750	130	240
CET-363/630	6330	4x14	40	10	450	3720	12380	500	660	12x24	1800	282	60	500	190	290
CET-363/1250	6350	4x18	50	13	450	3720	12380	500	660	12x24	1800	282	60	500	190	290
CET-420/630	6810	4x14	40	10	500	4180	11550	470	500	12x24	1820	328	60	600		
CET-420/1250	6640	4x18	50	13	500	4180	14322	562	500	12x18	1650	328	60	430		

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size.
Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of air immersed part (L2), Cable entry length (L4) , Total length (L) are changed depend on the change of CT length

RIP Dry-type Composite Transformer Bushing (Current Carrying Type)

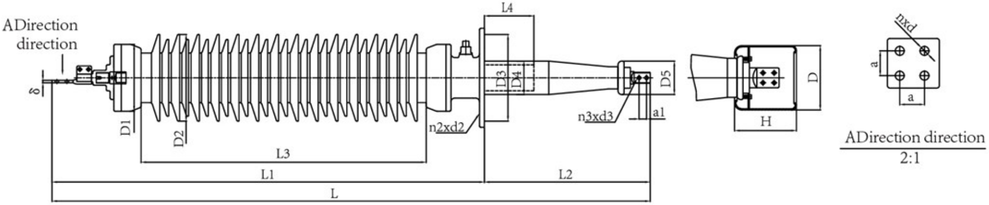


Main Performance	
Technical standard	GB/T4109-2008 IEC60137 Ed.6.0
Rated voltage	126KV
Rated current	630-1250A
1 min power frequency dry voltage withstand	255 (230) KV
Full-wave impulse withstand voltage of lighting	550KV
Under 1.5 highest phase voltage tan δ	≤0.004
Partical discharge under rated voltage	≤10pC
Bending test load	2000-3150N
Minimum nominal creepage distance	31mm/KV

Main dimension (mm) / Type	Total length of bushing	Wiring terminal			Head diameter	Compound external insulation			Flange		Total length of oil immersed part	The diameter of main body in oil	Total length of oil immersed part	Wiring terminal in oil		Hole number and diameter	Balancing voltage ball		Weight
		Hole number and diameter	Hole distance	Panel thickness		Insulation distance	Nominal creepage distance	Maximum umbrella diameter	Center distance of installation hole	Hole number and diameter				Hole distance	Hole number and diameter				
	L	nxd	a	δ	D1	L3	S	D2	D3	n2xd2	L2	D4	D5	a1	n3xd3	L4	H	D	kg
FET-24/2500	1050	4x14.5	45	20	210	300	650	314	250	2x18	280	132	135	40	8x15	50			
FET-24/3150	1050	4x14.5	45	20	210	300	650	314	250	2x18	280	132	135	40	8x15	50			
FET-40.5/1250	1215	4x18	50	10	185	510	1260	288	185	2x13	335	92	100	40	6x15	50			
FET-40.5/1600	1215	4x18	50	16	185	510	1260	288	185	2x13	335	92	100	40	6x15	50			
FET-40.5/2500	1700	4x14.5	45	20	210	700	1980	314	250	2x18	530	132	135	40	8x15	300			
FET-40.5/3150	1650	8x18	45	20	210	700	1980	314	250	2x18	480	132	135	40	8x15	150			
FET-72.5/1250	1990	4x18	50	16	210	700	2010	314	185	2x14	880	106		40	6x16	400	220	150	
FET-72.5/1600	1790	4x18	50	16	210	700	1980	314	185	2x14	680	106		40	6x16	200	220	150	
FET-126/1600	2840	4x18	60	16	270	1152	3390	340	350	2x13	790	150		40	6x24	300	300	175	
FET-126/2000	2960	4x18	60	16	270	1152	3390	340	350	2x13	1160	150		40	6x24	500	220	175	
FET-145/1250	2953	4x18	50	10	300	1235	4495	350	350	2x13	1100	170		40	6x24	500	220	175	
FET-145/2000	2978	4x18	60	13	300	1235	4495	350	350	2x13	1100	170		40	6x24	500	220	175	
FET-170/1600	3028	4x18	60	13	330	1487	5800	380	400	2x13	1150	190		40	6x24	500	220	175	
FET-170/2000	3028	4x18	60	13	330	1487	5800	380	400	2x13	1150	190		40	6x24	500	220	175	
FET-252/1250	3890	4x14	40	13	380	2142	6630	443	500	2x14	1045	220		44.5	12x24	430	230	250	
FET-363/1600	3120	4x18	60	15	420	3720	13013	485	660	2x14	1600	282		40	12x24	500	230	290	
FET-363/2000	6120	4x18	60	15	420	3720	13013	485	660	2x14	1600	282		40	12x24	500	230	290	
FET-420/1250	6595	4x18	60	15	420	4180	14755	562	660	2x14	1615	328		40	12x24	500			

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size

RIP Dry-type Porcelain Transformer Bushing (Current Carrying Type)

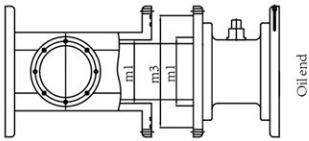


Main Performance	
Technical standard	GB/T4109-2008 IEC60137 Ed.6.0
Rated voltage	126KV
Rated current	630-1250A
1 min power frequency dry voltage withstand	255 (230) KV
Full-wave impulse withstand voltage of lighting	550KV
Under 1.5 highest phase voltage tan δ	≤0.004
Partical discharge under rated voltage	≤10pC
Bending test load	2000-3150N
Minimum nominal creepage distance	31mm/KV

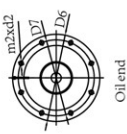
Main dimension (mm) / Type	Total length of bushing	Wiring terminal			Head diameter	Compound external insulation			Flange		Total length of oil immersed part	The diameter of main body in oil	Total length of oil immersed part	Wiring terminal in oil		Hole number and diameter	Balancing voltage ball		Weight
		Hole number and diameter	Hole distance	Panel thickness		Insulation distance	Nominal creepage distance	Maximum umbrella diameter	Center distance of installation hole	Hole number and diameter				Hole distance	Hole number and diameter				
	L	nxd	a	δ	D1	L3	S	D2	D3	n2xd2	L2	D4	D5	a1	n3xd3	L4	H	D	kg
CET-24/2500	1050	4x14.5	45	20	210	300	650	314	250	2x18	280	132	135	40	8x15	50			
CET-24/3150	1050	4x14.5	45	20	210	300	650	314	250	2x18	280	132	135	40	8x15	50			
CET-40.5/1250	1215	4x18	50	10	185	510	1260	288	185	2x13	335	92	100	40	6x15	50			
CET-40.5/1600	1215	4x18	50	16	185	510	1260	288	185	2x13	335	92	100	40	6x15	50			
CET-40.5/2500	1700	4x14.5	45	20	210	700	1980	314	250	2x18	530	132	135	40	8x15	300			
CET-40.5/3150	1650	8x18	45	20	210	700	1980	314	250	2x18	480	132	135	40	8x15	150			
CET-72.5/1250	1990	4x18	50	16	210	700	2010	314	185	2x14	880	106		40	6x16	400	220	150	
CET-72.5/1600	1790	4x18	50	16	210	700	1980	314	185	2x14	680	106		40	6x16	200	220	150	
CET-126/1600	2840	4x18	60	16	270	1152	3390	340	350	2x13	790	150		40	6x24	300	300	175	
CET-126/2000	2960	4x18	60	16	270	1152	3390	340	350	2x13	1160	150		40	6x24	500	220	175	
CET-145/1250	2953	4x18	50	10	300	1235	4495	350	350	2x13	1100	170		40	6x24	500	220	175	
CET-145/2000	2978	4x18	60	13	300	1235	4495	350	350	2x13	1100	170		40	6x24	500	220	175	
CET-170/1600	3028	4x18	60	13	330	1487	5800	380	400	2x13	1150	190		40	6x24	500	220	175	
CET-170/2000	3028	4x18	60	13	330	1487	5800	380	400	2x13	1150	190		40	6x24	500	220	175	
CET-252/1250	3890	4x14	40	13	380	2142	6630	443	500	2x14	1045	220		44.5	12x24	430	230	250	
CET-363/1600	3120	4x18	60	15	420	3720	13013	485	660	2x14	1600	282		40	12x24	500	230	290	
CET-363/2000	6120	4x18	60	15	420	3720	13013	485	660	2x14	1600	282		40	12x24	500	230	290	
CET-420/1250	6595	4x18	60	15	420	4180	14755	562	660	2x14	1615	328		40	12x24	500			

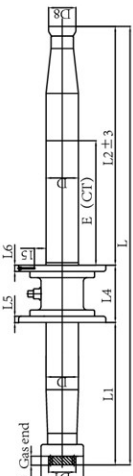
Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size

RIP Dry-type Oil/SF6 Bushing



Main Performance	
Technical standard	GB/T4109-2008 IEC60137 Ed.6.0
Rated voltage	72.5kV/126kV/145kV/252kV/363kV/550kV
Rated current	630-2500A
1 min power frequency dry voltage withstand	155kV/255kV/305kV/505kV/595kV/740kV
Full-wave impulse withstand voltage of lightling	325kV/550kV/650kV/1050kV/1175kV/1800kV
Under 1.5 highest phase voltage tan δ	≤ 0.004
Partical discharge under rated voltage	≤ 10pC
Bending test load	2000N/3150N/3150N/4000N/5000N/5000N

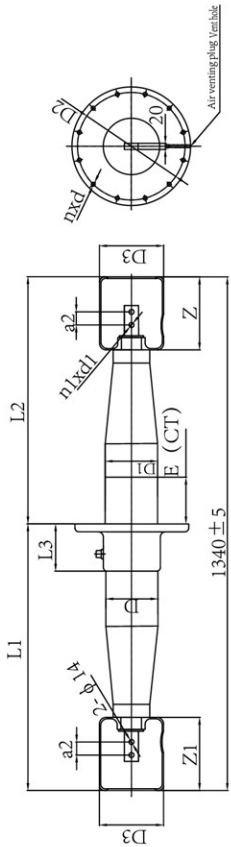




Main dimension (m m) / Type	Total length of bushing	SF6 end												Oil end										Weight
	L	L1	D	D1	D3	D4	D5	L4	D5	L4	m1	m3	m4	L5	mxd	L2	E	L6	D6	D7	D8	m2xd2	kg
ETGD-72.5/630	935	330	124	99	315	285	70	150	70	150	250	250	200	24	16	455	30	20	335	290	170	12x14	
ETGD-72.5/1250	935	330	124	99	315	285	70	150	70	150	250	250	200	24	16	455	30	20	335	290	170	12x14	
ETGD-72.5/2000	1375	330	164	99	365	335	70	150	70	150	250	300	250	24	16	895	400	20	400	350	220	12x14	
ETGD-72.5/2500	1375	330	164	99	365	335	70	150	70	150	250	300	250	24	16	895	400	20	400	350	220	12x14	
ETGD-72.5/3150	1375	330	164	99	365	335	70	150	70	150	250	300	250	24	16	895	400	20	400	350	220	12x14	
ETGD-126/630	1585	520	144	99	335	305	70	150	70	150	300	280	220	30	16	915	380	20	335	290	170	12x22	
ETGD-126/1250	1585	520	144	99	335	305	70	150	70	150	300	280	220	30	16	915	380	20	335	290	170	12x22	
ETGD-126/1600	1585	520	114	99	335	305	70	150	70	150	300	280	220	30	16	915	380	20	335	290	170	12x22	
ETGD-126/2000	1585	520	114	99	335	305	70	150	70	150	300	280	220	30	16	915	380	20	335	290	170	12x22	
ETGD-145/630	1535	520	144	99	335	305	70	150	70	150	300	280	220	30	16	865	330	20	335	290	170	12x22	
ETGD-145/1250	1535	520	144	99	335	305	70	150	70	150	300	280	220	30	16	865	330	20	335	290	170	12x22	
ETGD-145/2000	1535	520	144	99	335	305	70	150	70	150	300	280	220	30	16	865	330	20	335	290	170	12x22	
ETGD-170/1250	1620	520	168	99	335	305	70	150	70	150	300	280	220	30	16	950	300	20	335	290	170	12x22	
ETGD-170/2000	1620	520	168	99	335	305	70	150	70	150	300	280	220	30	16	950	300	20	335	290	170	12x22	
ETGD-252/630	2005	770	198	139	570	535	110	220	110	220	450	510	450	33	16	1015	360	20	450	400	168	12x20	
ETGD-252/1250	2005	770	198	139	570	535	110	220	110	220	450	510	450	33	16	1015	360	20	450	400	168	12x20	
ETGD-252/2000	2620	770	198	139	570	535	110	220	110	220	450	510	450	33	16	1630	500	20	450	400	168	12x20	
ETGD-252/2500	2375	770	213	139	570	535	110	220	110	220	450	510	450	33	16	1385	560	20	450	400	250	12x20	
ETGD-363/630	2890	1050	282	139	690	640	110	200	110	200	540	600	540	35	20	1640	500	25	680	620	290	12x24	
ETGD-363/2000	3590	1050	282	139	690	640	110	200	110	200	540	600	540	35	20	2340	700	25	680	620	290	12x24	
ETGD-420/2000	2410	1050	329	139	690	640	110	200	110	200	540	600	540	35	20	1160	300	25	560	500		12x24	
ETGD-550/1250	2680	1050	387	139	690	640	110	200	110	200	540	600	540	35	20	1430	500	25	660	600		12x24	
ETGD-550/2000	2680	1050	387	139	690	640	110	200	110	200	540	600	540	35	20	1430	500	25	660	600		12x24	

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size

RIP Dry-type Oil/Oil Bushing (Current Carrying Type)

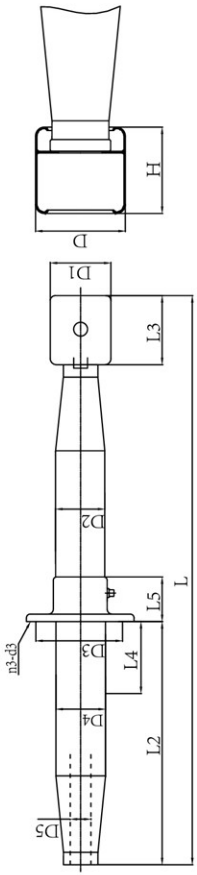


Main Performance	
Technical standard	GB/T4109-2008 IEC60137 Ed.6.0
Rated voltage	72.5kV/126kV/145kV/252kV/363kV/550kV
Rated current	630-2500A
1 min power frequency dry voltage withstand	155kV/255kV/305kV/505kV/595kV/740kV
Full-wave impulse withstand voltage of lighting	325kV/550kV/650kV/1050kV/1175kV/1800kV
Under 1.5 highest phase voltage tan δ	325kV/550kV/650kV/1050kV/1175kV/1800kV
Partical discharge under rated voltage	-/-/-/850 kV/950kV/1300kV
Bending test load	≤ 10pC
Minimum nominal creepage distance	2000N/3150N/3150N/4000N/5000N/5000N

Main dimension (m m) / Type	Total length of bushing	Oil end			Transformer end			Flange			Balancing voltage tail		Wiring terminal		Weight
	L	L1	D	L2	E	D1	L3	D2	nxd	D3	Z	Z1	a2-a1	n1xd1	kg
ETOD-72.5/800	1355	505	118	760	400	113	90	250	8x15	170	195	195	40	2x13	
ETOD-72.5/1250	1055	505	118	460	100	113	90	250	8x15	170	195	195	40	2x13	
ETOD-72.5/2000	1105	505	118	510	150	113	90	250	8x15	170	195	195	44	2x13	
ETOD-126/630	1600	630	142	830	380	139	80	350	6x24	170	220	220	40	2x13	
ETOD-126/1250	1600	630	142	830	380	139	80	350	6x24	170	220	220	40	2x13	
ETOD-126/1600	1505	550	142	865	360	139	80	290	12x22	170	195	195	40	2x13	
ETOD-126/2000	1595	830	142	675	150	139	80	290	12x22	170	195	195	44	2x13	
ETOD-145/630	1505	550	142	865	360	139	80	290	12x22	170	195	195	40	2x13	
ETOD-145/1250	1505	550	142	865	360	139	80	290	12x22	170	195	195	40	2x13	
ETOD-145/2000	1595	830	142	675	100	139	80	290	12x22	170	195	195	40	2x13	
ETOD-170/630	1595	900	172	705		168	150	500	12x24	250	230	270	40	2x13	
ETOD-170/1250	1595	900	172	705		168	150	500	12x24	250	230	270	40	2x13	
ETOD-170/2000	1595	900	172	705		168	150	500	12x24	250	230	270	40	2x13	
ETOD-252/630	2260	1000	2020	1000	400	198	150	500	12x24	250	230	270	40	2x13	
ETOD-252/1250	2080	1000	202	1810	750	198	150	500	12x24	250	230	270	40	2x13	
ETOD-252/2000	1795	1000	202	655	495	198	150	500	12x24	250	230	270	40	2x13	
ETOD-420/2000	2510	1100	332	1210	400	328	200	600	12x24	290	300	300	40	2x13	
ETOD-550/1250	2880	1200	392	1480	500	387	200	600	12x24	290	300	300	40	2x13	
ETOD-550/2000	2880	1200	392	1480	500	387	200	600	12x24	290	300	300	40	2x13	

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size

RIP Dry-type Oil/Oil Bushing (Draw Lead Type)



Main Performance	
Technical standard	GB/T4109-2008 IEC60137 Ed.6.0
Rated voltage	72.5kV/126kV/145kV/252kV/363kV/550kV
Rated current	630-2500A
1 min power frequency dry voltage withstand	155kV/255kV/305kV/505kV/595kV/740kV
Full-wave impulse withstand voltage of lighting	325kV/550kV/650kV/1050kV/1175kV/1800kV
Under 1.5 highest phase voltage tan δ	325kV/550kV/650kV/1050kV/1175kV/1800kV
Partical discharge under rated voltage	-/-/-/850 kV/950kV/1300kV
Bending test load	≤ 10pC
Minimum nominal creepage distance	2000N/3150N/3150N/4000N/5000N/5000N

Main dimension (mm) / Type	Total length of bushing	Oil end			Transformer end				Flange			Wire terminal		Weight
	L	D1	L3	D2	L2	L4	D4	D5	L5	D3	nxd	D	D6	kg
ETOD-72.5/630	900	175	220	118	325		113	48	90	250	8x15			
ETOD-72.5/1000	900	175	220	118	325		113	48	90	250	8x15			
ETOD-126/630	1290	175	220	135	580	200	132	48	90	250	8x16			
ETOD-126/1000	1510	175	220	135	800	400	132	48	90	290	12x16			
ETOD-145/630	1142	175	220	135	450		132	48	90	290	12x16			
ETOD-145/1000	1360	175	220	135	650	200	132	48	90	290	12x16			
ETOD-170/630	1800	250	300	187	800	200	183	60	150	500	12x24	200	110	
ETOD-170/1000	1800	250	300	187	800	200	183	60	150	500	12x24	200	110	
ETOD-252/630	2360	250	300	217	1260	600	213	60	150	500	12x24	200	110	
ETOD-252/1250	2360	250	300	217	1260	600	213	60	150	500	12x24	200	110	
ETOD-363/630	2645	290	260	282	1490	400	282	60	165	620	12x24	290	260	
ETOD-363/1250	2645	290	260	282	1490	400	282	60	165	620	12x24	290	260	

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size

RIP Dry-type Low Voltage Heavy Current Bushing

Main Performance	
Technical standard	GB/T4109-2008 IEC60137 Ed.6.0
Rated voltage	24KV
Rated current	8000-40000A
1 min power frequency dry voltage withstand	255 (230) KV
Full-wave impulse withstand voltage of lighting	550KV
Under 1.5 highest phase voltage tan δ	≤ 0.004
Partical discharge under rated voltage	≤ 10pC
Bending test load	2000-3150N
Minimum nominal creepage distance	31mm/KV

Main dimension (m m) / Type	Total length of bushing	Air end				Porcelain sleeve					Flange					Transformer			Weight
		Length	Charged length	Roof diameter	Max. panel diameter	Insulation distance	Minimum creepage distance	Max. protection sleeve diameter	Protection sleeve length	Flange length	Flange diameter	Center distance of installation hole	nxd	Hole number and diameter	Inner diameter of sealing surface	Flange thickness	Total length	Charged length	Terminal end diameter	
	L	L2	L5	D6	D5	L3			L8	L4	D4	D3	nxd	D2	L7	L1	L6	D1	kg
ETHD-24/8000	775	470	130	350	500	250	750	240	290	90	450	400	12x20	300	20	305	165	290	
ETHD-24/10000	775	470	130	395	545	250	750	240	290	90	540	480	12x20	340	20	305	165	330	
ETHD-24/12500	810	470	130	470	610	250	750	240	290	90	600	550	12x20	410	20	340	185	400	
ETHD-24/16000	805	480	130	535	662	250	750	240	290	100	640	590	16x22	465	20	325	185	430	
ETHD-24/20000	805	480	130	630	780	250	750	240	290	100	720	660	16x22	560	20	325	185	550	
ETHD-40.5/8000	875	555	130	350	500	335	870	320	375	90	450	400	12x20	300	20	320	165	290	
ETHD-40.5/10000	895	555	130	395	545	335	870	320	375	90	500	450	12x20	340	20	340	185	330	
ETHD-40.5/12500	895	555	130	470	610	335	870	320	375	90	600	550	12x20	410	20	340	185	400	
ETHD-40.5/16000	905	585	130	565	695	335	1170	490	375	90	650	590	16x19	465	20	320	165	430	
ETHD-40.5/20000	935	595	160	630	780	335	1170	490	375	100	720	660	16x22	560	20	340	185	550	
ETHD-40.5/25000	935	615	180	750	880	335	1170	490	375	100	780	720	16x22	670	20	340	185	660	
ETHD-40.5/31500	1200	825	300	920	1000	400	1050	440	375	125	980	830	24x22	830	25	375	220	800	
ETHD-40.5/40000	1200	825	300	920	1000	400	1050	440	375	125	980	930	24x22	830	25	375	220	800	

Note: Product dimension are the recommended size, and the key mating dimensions can be designed according to the user's requirements. The final size shall be determined by both sides of the drawing size.
Only one kind of CT length is listed in this table, CT length may be made by the users according to the requirements of the products. Total length of oil immersed part (L2), Cable entry length (L4) , Total length (L) are changed depend on the change of CT length.

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