

HIGH CURRENT BUSHING

For Generator Transformer

- ❏ Rated Voltage : 24 ~ 36 kV
- ❏ Rated Current : 4000 ~ 25000 A
- ❏ Standard : IEC-60137
- ❏ Types : Plain/Condenser

HIGH CURRENT BUSHING FOR GENERATOR TRANSFORMER

Expertise for Reliability

Yash High Voltage Insulators Pvt. Ltd. is based in Vadodara, India. We manufacture well proven standard range of bushings with excellent structural integrity and good thermal performance. Our bushings are self-contained and maintenance free.

Yash is an independent manufacturer of transformer bushings. Our core strength is design and development of products which meet and exceed customer expectations. We are resourceful internally and externally, but ensure a continual process of improvement of our products and business process.

Loading Guide

Standard designs are type tested as per IEC-60137, under following conditions.

- ☑ Transformer Oil temp: 60°C above ambient
- ☑ Ambient temp: 40°C Max
- ☑ Hot Spot: 120°C Max

As a rule of thumb, Bushing Rating shall be decided to be 20% above Full load current of the transformer.

However final selection should be based on the loading graphs given below,

Designed for Quality

Main conductor is high conductivity aluminium alloy solid rod. Bottom terminal is integral to the central rod, wherein flat terminals are milled down. Top terminal is welded on to the central rod. Mounting flange is corrosion resistant aluminum alloy die casting. The annular space around the conductor is filled with transformer oil.

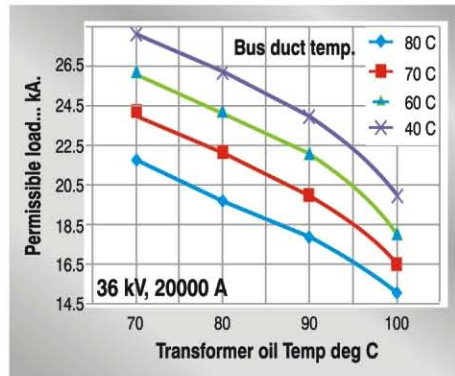
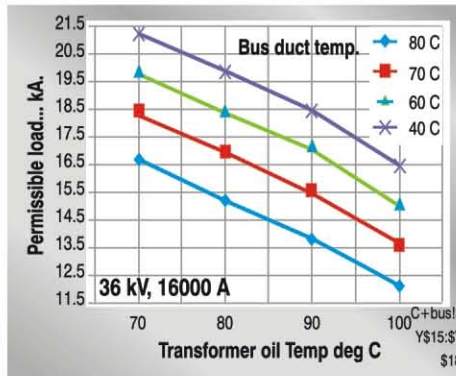
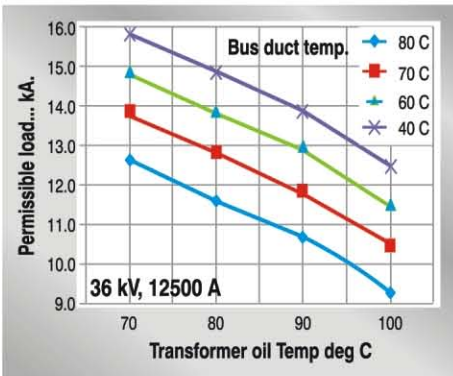
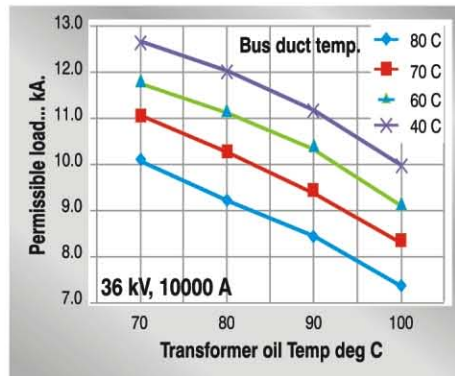
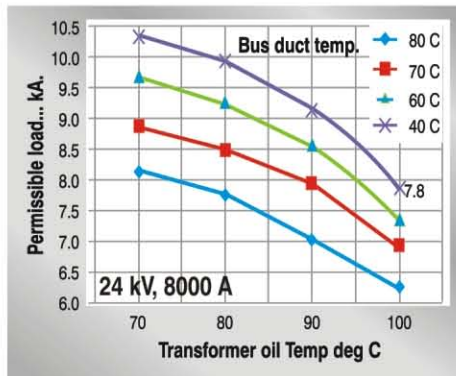
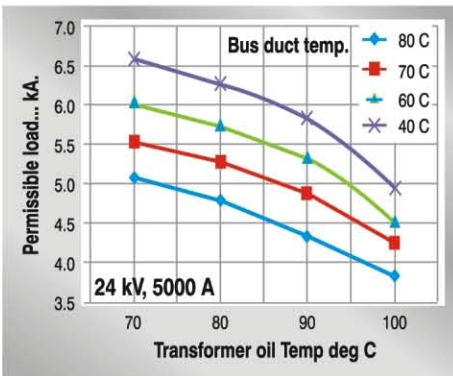
The assembly is under spring load and is sturdy to take care of the thermal expansion, mechanical force and vibration during transport and service.

For 36 kV models, the major insulation is of OIP condenser. A test tap is provided on the mounting flange for this bushing.

Quality Guarantee

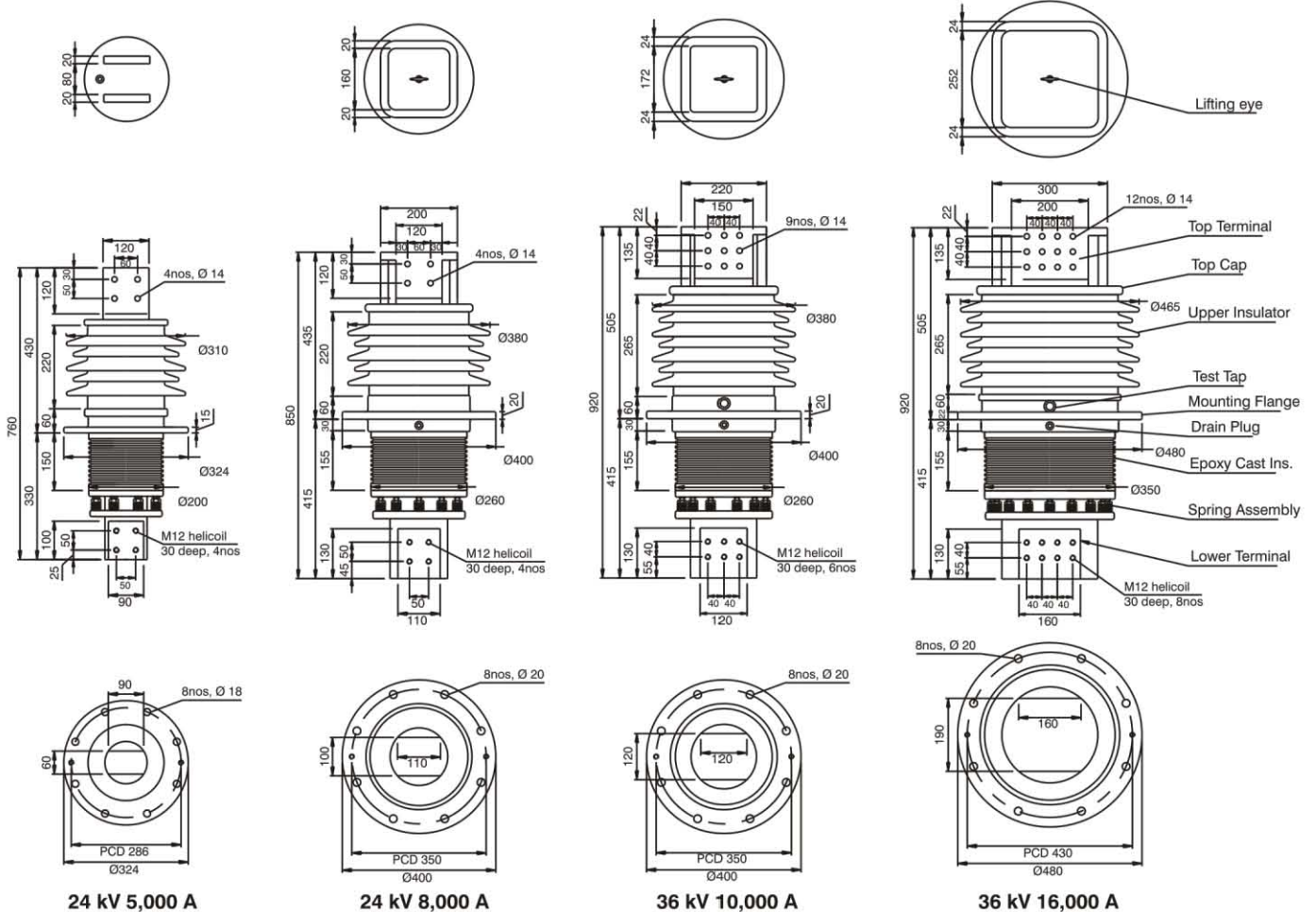
Complete range is type tested as per IEC-60317.2008

During manufacturing and on completion, the bushing is subjected to fool proof inspection and test. Parts are bought only from approved vendors whose systems are audited periodically.



Technical Data Sheet

MODEL		HOA-2405	HOA-2408	HOA-2410	HCA-3610	HCA-3612	HCA-3616
Rated Voltage	kV	24	24	24	36	36	36
L-E Voltage	kV	14	14	14	19	19	19
Type of Insulation		Oil filled / Oil Communicating			Condenser (OIP)		
B.I.L.	kVp	125	125	125	170	170	170
Rated Current	Amps	5000	8000	10000	10000	12500	16000
AC 1 min. Test Voltage	kV	50	50	50	70	70	70
Total Length	mm	760	850	875	920	920	920
Air-end Length	"	430	435	460	505	505	505
Oil-end Length	"	330	415	415	415	415	415
Total Creepage Length	"	600	600	600	760	760	760
Oil-end dia	"	200	260	260	260	320	350
Porcelain OD	"	310	380	380	380	420	465
Flange OD	"	324	400	400	400	480	480
Mounting PCD	"	286	350	350	350	430	430
Mounting Hole dia	"	18	20	20	20	20	20
Number of Holes	"	8	8	8	8	8	8
Approx. Weight	Kg	40	80	100	120	150	170



All New Copper Design

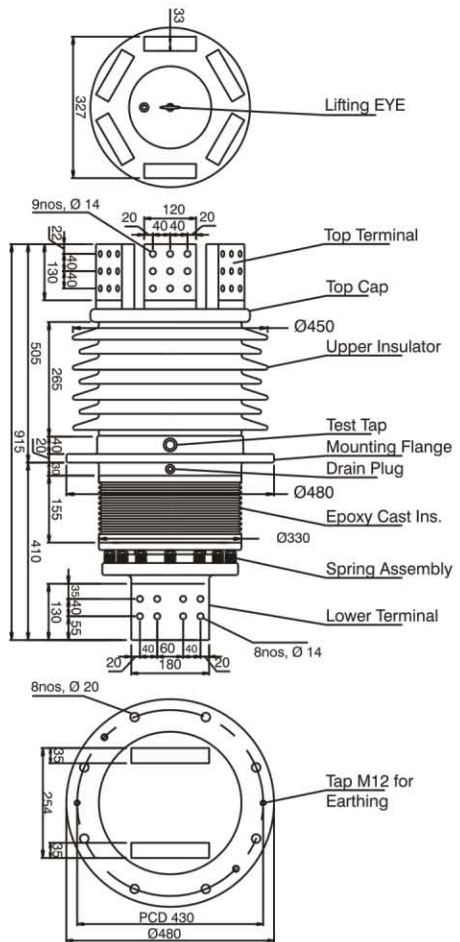
- ❏ Compact Design: 60% size of aluminium
- ❏ No welding or Brazing
- ❏ High Conductivity copper terminals
- ❏ Standard designed > 16kA
- ❏ Option for < 20kA
- ❏ Superior thermal performance
- ❏ Corrosion resistant parts

Standard Aluminium Design

- ❏ Excellent thermal performance
- ❏ Superior short time thermal rating
- ❏ Low Dielectric loss, Partial Discharge
- ❏ Flat Terminal on both ends
- ❏ Standard terminal bolts (M12)
- ❏ Standard IEC-60137-2008
- ❏ Epoxy Lower Insulator
- ❏ Suitable for Bus-Duct operation

Other Products & Services

- ❏ Condenser Bushings up to 145 kV
- ❏ Wall Bushing up to 145 kV
- ❏ FRP Cylinder for Transformer Applications
- ❏ Spare Bushings to retrofit with any reputed make
- ❏ Refurbish used bushings to "AS GOOD AS NEW"



36 kV 20,000 A

*Owing to continuous innovations, details on this catalogue are subject to change without prior notice. This catalogue should only be regarded as a guide and is intended for information only.



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