Bushings

Expertise up to 1200 kV

For all applications, Alstom Grid bushings represent a cost-effective solution to facilitate the electric stress control of your equipment.



Alstom Grid offers a large portfolio of condenser bushings for AC or DC operation:

- ☐ Epoxy resin bonded paper up to 36 kV for generators
- Oil-impregnated paper for voltages up to 1200 kV for power transformers and through-wall applications
- ☐ SF₆ insulated up to 800 kV for GIS, GIL and through-wall.
- RIP resin Impregnated Paper Bushings for power transformers

Motivated to provide you with innovative and superior quality products, our vision remains focused on meeting customer requirements while anticipating and exceeding the needs of a continuously changing market.



Looking for a company you can trust to tame your power?



Together with our customers towards the future

Alstom Grid began producing capacitancegraded bushings in 1924 and is recognized today as one of the most reputable manufacturers in the world.

With top quality products, numerous worldwide references and capacity to innovate, Alstom Grid is also one of the first supplier of 1,100 kV in China!

Customer Benefits

- Advanced R&D department
- Full property of production technology and know-how
- Bushing with longer lifetime and higher reliability
- No performance reduction with age
- Decades of on-site experience



Expert in HV condenser bushings

All the winding machines used for condenser bushings production are computer controlled and have been specifically designed and developed for that purpose by Alstom Grid.

For all applications, we offer cost-effective solutions:





Power generator Turbo-generator, hydrogen or water cooling up to 30 kV, 45.000 A



- Outer envelopes: Porcelain and/or Fiberglass tube
- Cooling: Natural, hydrogen, water
- Coupling by means of a Belleville washer placed on the air side
- Inner conductor made of aluminum or copper casting
- Dry filling (polyurethane foam) of the space between the porcelain and condenser boby
- Installation in any position
- CT accommodation on request
- Flange made of aluminum or stainless steel, low permeability





SF₆-to-air, for the connection between GIS, GIL, Dead tank circuit breakers and the HV **Alstom Grid System**

according to SF₆ insulation technology:

- SF₆ filled for voltages from 72.5 to 300 kV and condenser-type made of SF₆ impregnated polypropylene film for voltages more than 300 to 550 kV for applications
- SF₆-to-air, for the connection between GIS, GIL, Dead tank circuit breakers and the HV network.



SF₆ to Air









Alstom Grid advantages

- One source for all bushings type up to 1200 kV
- ☐ Improved reliability
- ☐ Short delivery time even for higher creepage bushings
- ☐ Easy transport and installation
- ☐ State-of-the-art technology
- ☐ Customers preferred product
- ☐ International expertise in UHV



Following the acquisition of PASSONI & VILLA, Alstom Grid now offers a large portfolio of condenser bushings for AC or DC operation. If you require any further information, please address your queries to

rpv@alstom.com

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