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## **Technical Bulletin # TB110911 Electrical Bonding, Grounding and Galvanic Protection**

The gasFlex piping system (TUBING AND ACCESORIES) is a multi-layered composite system consisting of an interior aluminum tubing coextruded with inner and outer layers of UV resistant polyethylene (PE).

### **GROUNDING:**

Since there is no electrical conduction within the gasflex pipe system there are no chances of electric shock to people who come in contact with the gas piping. Appliances connected to the gasflex piping system shall be grounded per electrical code.

### **BONDING:**

Unlike CSST pipe, there is no electrical conduction within the gasflex pipe system and there is no chance of electrical surge caused by nearby lighting strikes. However bonding conductors between the appliances and the electrical service equipment enclosure is recommended to keep all appliances at a common voltage. When an additional grounding electrode(s) is used for the gas service, it shall be bonded to the electrical service grounding electrode system or, where provided, the lightning protection grounding system.

### **GALVANIC CORROSION PROTECTED**

Fittings of the gasFlex system are made of brass and they come outfitted with a dielectrical protection consisting of PE washers placed inside the ridge of the fitting as seen in the attached picture resulting in no contact between the aluminum face of the pipe and the brass fitting, preventing electrical conduction and thus any potential galvanic corrosion between the aluminum and the brass.

