

ELECTRICAL BONDING & INSULATION OF GAS PIPEWORK WITHIN CONSUMERS PREMISES

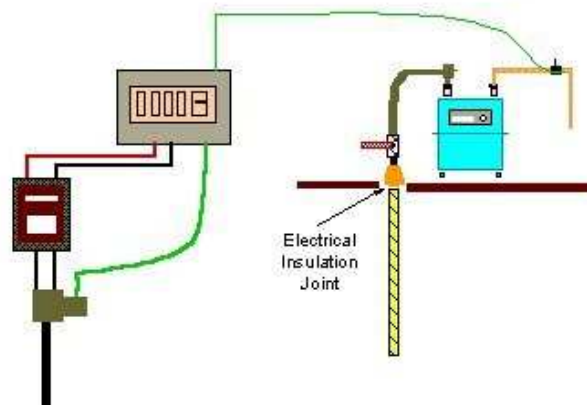
It is of paramount importance that internal Gas Installation Pipework is electrically insulated from the external Public Gas Transporter's (PGT's) supply network. It is also vital that a Main Equipotential Bonding Conductor is correctly installed on to the Gas Installation Pipework within the premises. Only correct installation of both of these systems will provide adequate protection against both Electrocutation and Gas Explosions.

The number of variations in electricity supply systems increases the importance of fully understanding this topic. The safety of Employees and the General Public relies on the competence of those working on the Gas Installation.

ELECTRICAL SUPPLY SYSTEMS

The variations of electrical supply and earthing systems used within properties requires those working on the Gas Installation to fully understand the implications of 2 cable (TT); 3 cable (TN-S) and PME electrical systems.

Additional complexity is added by the PGT's responsibilities with respect to the Main Equipotential Bonding of the gas service within properties.



GAS CONNECTIONS TO PREMISES

Variations in the Gas Supply Service between Plastic (PE) and Steel, along with the methods of entry to the premises may require the Insertion of an Insulation Joint (I/J). These must be correctly fitted. Careful location of the I/J will afford maximum protection and will ensure that the Equipotential Bond is not compromised.

Correctly installed I/J's will also provide additional protection for occupiers and employees. There is the possibility with a PME electricity supply network that external fault current could reach the Gas Supply Network. Correctly installed I/J's will protect the Gas Installation Pipework from this potentially dangerous scenario. I/J's can also help to minimise the possibility of corrosion of either metallic services or mains.

COMPANY SAFETY PROCEDURES

Working in the premises of others requires Employers to ensure additional precautions are incorporated into their Company Policies and Procedures to prevent Danger "as far as is reasonably practicable".

VOLTAGE DETECTION SAFETY DEVICES

A suitable Voltage Detection Safety Device if correctly used can protect personnel working within the Premises from Electrical Injuries and Death.

Through the implementation of suitable procedures, electrically live Gas Installation Pipework can be identified and appropriate measures taken.



COMPETENCE

The Competency of employees along with appropriate evidence of understanding and application of Company Rules is a must for Gas Supply Companies

Contact Ex-**PERTS**, the one-stop service covering **ALL** requirements for Electrical Equipment for Explosive Gas Atmospheres.

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