

Electrofusion, The Preferred Jointing Method

What is Electrofusion?

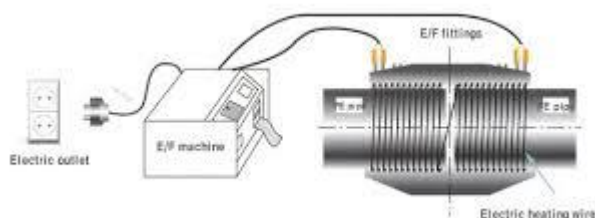
The electrofusion welding system is the jointing process of pipes and/or fittings of the same connection diameter, and is carried out by fusion of the contact surface through an electrical resistance inserted in the electrofusion fitting. Today it is considered the most developed and safe method for realising polyolefin jointing's. Thanks to its versatility, electrofusion can weld together pipes and/or fittings with different thickness and made with different PO and PVDF materials.

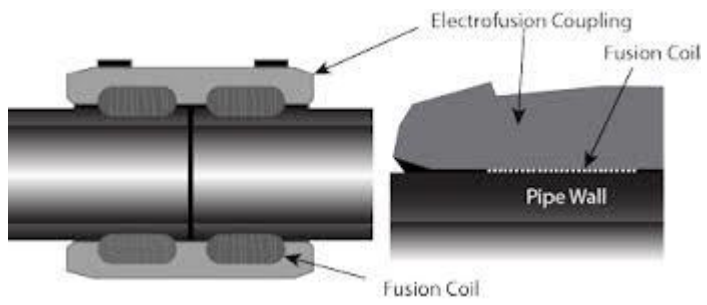
Most Control box complies with specific requirements of electrofusion technology for gas, water, telecommunications and industrial applications.

Features and Benefits regarding electrofusion include:

- Compact design for confined spaces; working at heights and where access is limited.
- One machine covering complete range of up to 1200mm.
- Comprehensive product range (tees, bends, couplers, stub ends, reducer, transition fittings etc.)
- Barcoding system with on board memory of up to 970 welds and full traceability.
- Data transfer by USB.
- Equipment locally serviced and calibrated.

Welding occurs in an overlapping format whereby the pipes and fittings are joined together by an electrofusion coupling. The resistance coil (heating coil) integrated into the electrofusion coupling is heated by an electrical welding unit, which causes the surface of the component (outer) and the coupling (inner) immediately in contact with the heating coil to be plasticised. The thermal expansion of the plastic creates the welding pressure so the effect of these two parameters, heat and pressure, result in a homogeneous connection between coupling and pipe or fitting at the end of the welding process.





To find out more about the use of electrofusion as a jointing method for piping systems contact Astore Keymak to discuss the options available as well as the range of high quality machinery.