

ABSTRACT**ELECTROFUSION FASTENING APPARATUS**

Electrofusion fastening apparatus comprises a control box for detecting incorrect assembly of a pipe fitting and pipe and aborts the welding operation without destroying the fitting.

Electrofusion fastening apparatus also comprises a control box for measuring the gap between the pipe and fitting and alters the welding parameters to compensate.

Electrofusion fastening apparatus warms the pipe and fitting prior to welding to ensure the surfaces are dry.

A socket for electrofusion welding has a coil buried in the body of its wall.

A transition fitting is provided to interface between metal and electrofused components.

Electrofusion apparatus includes means for checking the type of fitting to be used.

Electrofusion apparatus comprises means for checking that welding is complete, by means of resistance checks and mechanical means and a monitor in the connector.

