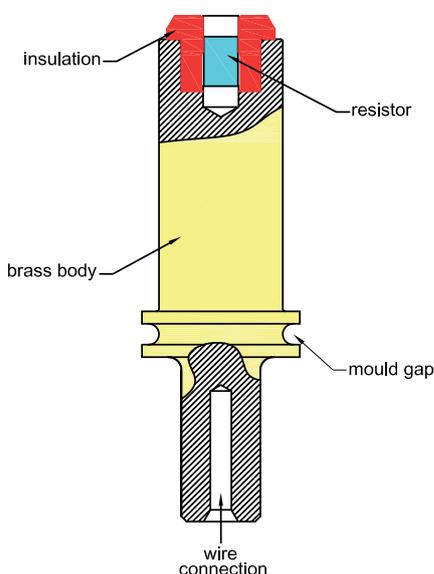


# Fusamatic - the anatomy of a world class fitting

Together, electrofusion fittings and polyethylene pipes enable utilities, designers and contractors to create fully welded pipe networks.

Joints are critical points in any pipe network. The production quality, reliability, and flexibility of Fusion's electrofusion fittings buys you peace of mind and certainty. Fusion has further extended the competitive advantage of its fittings by developing QBOX, the world's leading electrofusion control box, and JointManager, the first system which enables you to view and analyse your joint data at any time from anywhere in the world using the power of the internet. The ability to record and prove the integrity of your electrofusion joints is a major benefit for contractors and utilities alike.

Further information on QBOX and JointManager can be found on pages 6 and 7.



## 1) Fusamatic Pin

Invented by Fusion, the Fusamatic pin provides a totally automatic method for ensuring the correct welding parameters are used. Within each Fusamatic pin is a resistor. When the QBOX is connected to the fitting, the Fusamatic pin enables it to automatically identify the correct fusion time required to make the joint. All the operator has to do is press go!



**2) Indicators**

The pressure created by the expanding molten plastic in the jointing area inside the fitting during the electrofusion process will force out the indicator lugs. This is a visible sign that the necessary jointing pressure has been achieved.



**3) Moulded-in welding parameters**

Manual welding parameters are moulded into the body of all Fusion's fittings. Information provided includes fitting size, material (PE80 or PE100), applicable pipe SDRs, weld parameters, and pressure ratings for gas and water applications.



**4) Permanently marked batch number**

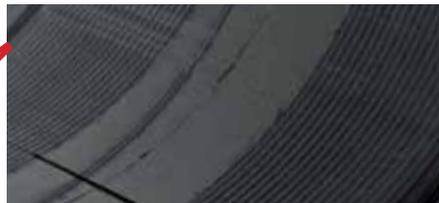
The injection mould batch number is just one of numerous quality control identifiers on each Fusamatic fitting. It is replicated on the fitting's barcode.



**5) Barcode**

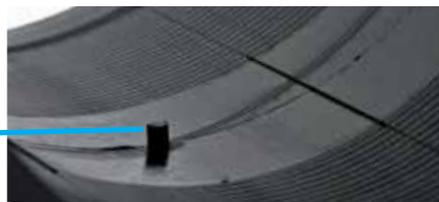
Quality control is central to the success of Fusion's fittings. The barcode provides full traceability right down to the polymer batch; the raw material from which the fittings are manufactured.

The barcode also carries the welding parameters for use with electrofusion boxes equipped with a barcode scanner.



**Element**

To promote joint quality, all fusion elements are coated with polyethylene before being moulded into the fitting body.



**Pipe stops**

Fusamatic couplers have removable pipe stops. The stops ensure pipes cannot be inserted past the midpoint, but can be removed for use in, for example, repair situations.