

# Technical specifications for Fusamatic fittings

## Quality control - 100% testing

All Fusamatic products are individually inspected using a unique computerised monitoring system that utilises advanced barcode technology. Each fitting is automatically inspected for coil resistance/continuity and correct fusion time as well as receiving a visual quality check by fully trained inspectors. This information is then logged on to a database that provides full traceability from the raw material to despatch and beyond.

Fusion Provida operates accredited quality systems against ISO 9001:2008 which ensure high quality products as well as being regularly audited by various institutions such as IIP, KIWA, BSI, DVGW, SAI Global and others.

Fusamatic fittings are tested, accredited and approved against many international performance standards including:

- GIS/PL2-4
- WIS 4-32-08
- BS EN1555-3
- BS EN12201-3
- BS ISO 8085
- BS ISO 4427

## Pressure ratings

The maximum pressure rating for each type of electrofusion fitting is included in the detailed product specifications provided in pages 12 to 29. The table below provides a summary of the pressure ratings of the most common fittings.

FITTING TYPE	WATER (COLD) BLACK PE100	GAS (1) BLACK PE100	GAS (2) YELLOW PE80
Coupler	PN16	10 Bar	7 Bar
Elbow	PN16	10 Bar	7 Bar
Equal tee	PN16	10 Bar	7 Bar
Reducer	PN16	10 Bar	7 Bar
Tapping tee	PN16	10 Bar	6 Bar
Branch saddle	PN16	10 Bar	6 Bar
Hydrant products	PN16	n/a	n/a
Transition fittings	PN16	10 Bar	6 Bar

(1) Rated to 10 bar under EN-1555-3. A black PE100 Fusamatic fitting can be used in the UK if its use is signed off by a qualified gas engineer.

(2) Rated under GIS/PL2-4 to either 7 bar for class B or 6 bar for class C

## SDR ratings

The appropriate pipe SDR rating for electrofusion fittings is in accordance with the tables below:

FITTING SIZES BELOW 63mm		FITTING SIZES 63mm AND ABOVE	
FITTING TYPE	PIPE SDR	FITTING TYPE	PIPE SDR
Coupler	11	Coupler	11 to 17.6
Elbow	11	Elbow	11 to 17.6
Reducer	11	Equal tee	11 to 17.6
Equal tee	11	Reducer	11 to 17.6
Tapping tee	11	Tapping tee *	11 to 17.6
Branch saddle	11	Branch saddle	11 to 17.6
Transition fittings	11	Hydrant products	11 to 17.6
		Transition fittings	11 to 17.6

\* Tapping tees for 63mm mains only are not suitable for SDR17 pressurised pipe applications.

Testing can be carried out on SDR rated pipe outside the stated ranges if required. Please contact Fusion's national sales office on +44 (0)1246 455998 for details.