

Mi-Flues

UK's No.1 Flue & Chimney Specialist

MF3

S/W FLUE SYSTEM

Stainless steel 304-grade, single wall flue system for gas & oil



Mi-Flues Limited

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MF3 304-grade stainless steel flue system

MF3 is an engineered range of single wall factory made flue components offering an economical yet highly durable solution for less demanding applications.

The system comprises of straight length, bends, tees and a full range of accessories. MI-Flues can also supply non-standard adaptors and accessories so that you can connect to any boiler or chimney system.

MF3 is available in four standard diameters from 125mm to 200mm, with larger sizes available to order.

APPLICATION

MF3 is suitable for the following applications where the system is not subjected to pressure.

- Flue gas system for gas and oil fired appliances (32 second oil)
- Internally for gas and oil fire air and ceiling heaters.
- Ventilation i.e. boiler rooms, laundries and kitchens.
- Fume extraction

It has been designed for flue gas temperatures not exceeding 260°C.

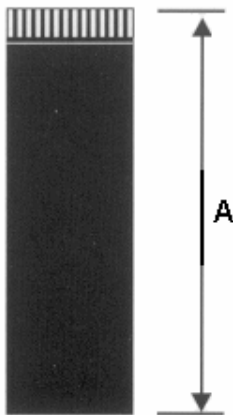
Note:

If the application involves handling corrosive fumes, the MF1 range made from 316-grade stainless steel should be used.

DESIGN & MANUFACTURE

All lengths and flue gas carrying fittings are made from 0.5mm thick, 304-grade stainless steel. This is a high quality annealed austenitic stainless steel. The pipe seams are lock-formed and rolled which provides an excellent gas sealed joint and offers minimum resistance to flue gas flow. Components are joined together by fitting the crimped male end of the first section into the female end of the second section. Mi-Flues MF3 has a unique press fit jointing system, which provides structural stability.

PIPES



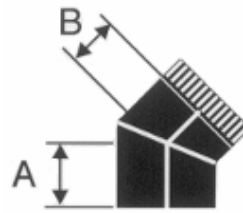
Pipes

Pipe sections are available in the following effective lengths.

NOMINAL LENGTH	EFFECTIVE LENGTH
1830mm (6')	1780mm
1525mm (5')	1475mm
1220mm (4')	1170mm
915mm (3')	865mm
610mm (2')	560mm
460mm (18")	410mm
305mm (1')	365mm

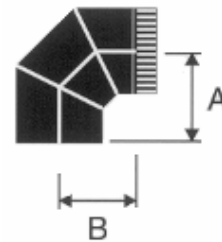
BENDS

45° Bend



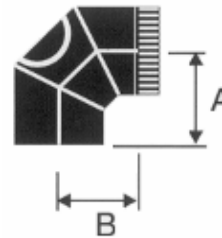
ØINT	A	B
125	100	65
150	100	65
180	100	65
200	120	85

90° Bend



ØINT	A	B
125	140	105
150	155	120
180	200	165
200	205	170

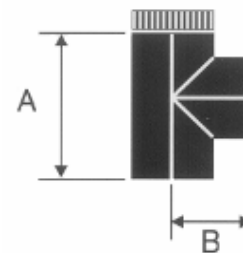
90° Bend with Access Door



ØINT	A	B
125	140	105
150	155	120
180	200	165
200	205	170

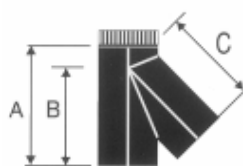
TEES

90° Tee



ØINT	A	B
125	240	140
150	265	150
180	295	165
200	320	180

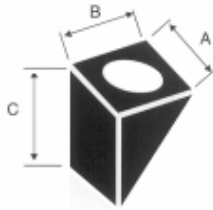
45° Tee



ØINT	A	B	C
125	300	240	260
150	330	290	290
180	370	325	325
200	400	355	355

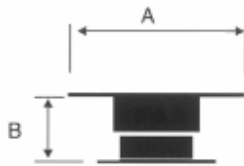
SUPPORT COMPONENTS

Base / Intermediate Wall Support



ØINT	A	B	C
125	225	225	250
150	225	225	250
180	255	255	255
200	255	305	305

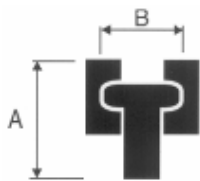
Telescopic Fire-Stop



ØINT	A	B
125	460	200-350
150	460	200-350
180	460	200-350
200	460	200-350

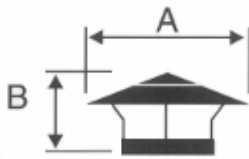
TERMINALS

H-Cowl



ØINT	A	B
125	695	465
150	695	465
180	770	520
200	840	570

Standard Cowl



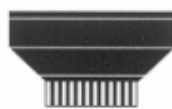
ØINT	A	B
125	230	150
150	230	150
180	310	200
200	340	200

MISCELLANEOUS ACCESSORIES

Bracket



Adaptors



Flashings



Storm Collar

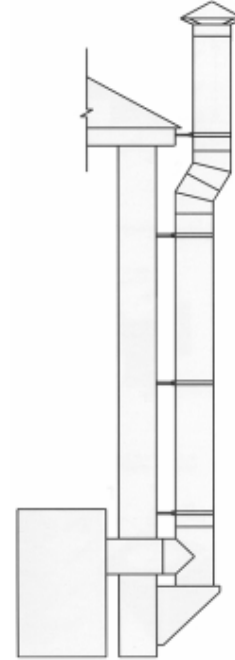


INSTALLATION

Design

Mi-Flues MF3 operates most efficiently where there is a vertical run from the appliance to the terminal. A selection of bends is available to provide an offset from the vertical whenever a straight route is not possible. The chimney should not make an angle more than 45° with the vertical, except where the flue is connected to the outlet of the appliance. The flue diameter should not be smaller than that of the outlet of the appliance. Access to the chimney for cleaning and inspection purposes may be provided with either a plugged tee located at the base of the

chimney, where it begins its vertical run, or a bend with a gas tight access door.



Flue Assembly

Mi-Flues MF3 components are assembled by press fitting the crimped and swaged male end into the un-crimped female end. The male end should always be installed uppermost.

Distance to combustibles.

It is recommended that there is a minimum distance of 50mm to combustible materials from the flue. However, if the chimney passes through a floor or ceiling, then clearances at floor and ceiling joists must be established using a telescopic fire stop. In addition the chimney should be installed to ensure that no joints occur between floors.

Supports

Inside a building, the weight of the chimney must be borne by either: -

(a) a base wall support, (b) an intermediate wall support or a telescopic fire stop. The telescopic fire stop rests on the ceiling joists thus bearing the load of the chimney at ceiling level.

Externally, the chimney should be attached to a wall or else supported by a mast. Base wall supports should be used where the chimney begins its vertical run. Intermediate wall supports should be used to support the chimney along its vertical run.

Where the chimney extends by 1.5m or more above the last support, it should be supported by guy wires, which are attached to the chimney with guy wire brackets. For more detailed information on flue outlet positioning see the appropriate Building Regulations. Mi-Flues MF3 uses a wall bracket, which can be cut to size to provide a clearance of up to 270mm. The wall bracket provides lateral support but does not provide any vertical support. Wall brackets should be no more than two metres apart.

Chimney Termination

Where the chimney passes through the roof a storm collar and flashing must be fitted. Adjustable lead and aluminium flashings are available for flat and pitched roofs. A storm collar must be fitted to the flue immediately above the flashing, and the joint should be sealed with a waterproof sealant. For oil-fired appliances a stainless steel cowl is attached to the end of the flue pipe. These components must be secured with either a locking band or self-tapping screws.

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