Guidance for Remote Secondary Safety Relief Discharge

Kit No. 5121379

This guidance document gives advice on the connection and routing of the Safety Relief Discharge pipe where the boiler is installed in a cellar or other location below ground level. The kit contains a secondary safety relief valve (set at 2.5 bar) and connection fittings (see overleaf). The kit can be used with all Baxi, Potterton and Main Combination and System type boilers. It is essential that it is installed in accordance with these instructions and that the type of hydraulic assembly on the boiler is identified, as the secondary relief valve must be positioned differently in relation to the boiler depending on hydraulic type.

Identifying Hydraulic Type
The hydraulic assembly will be of either brass (Fig. 1) or composite (plastic) construction (Fig. 2). Boilers equipped with brass hydraulics feature the safety pressure relief valve at the right hand side when viewed from the front. On composite types the valve is at the left.

Position of Secondary Relief Valve (See schematic diagrams overleaf)
• Brass Hydraulics – the secondary relief valve must be positioned on the primary return pipework.
• Composite Hydraulics – the secondary relief valve must be positioned on the primary flow pipework.
**Notes**

The boiler safety relief valve should be connected to the central heating system as follows:-

- **primary return** - **brass hydraulics** as Fig. 1 install to **Schematic A**
- **primary flow** - **composite hydraulics** as Fig. 2 install to **Schematic B**

The pipe supplied in the boiler kit can be used for this purpose, in conjunction with further pipework and fittings. These will depend upon the individual circumstances of each installation. Ensure that the connection to the boiler safety relief valve is tight and sound. A further ‘tee-piece’ should also be included in the pipework to allow connection of the ‘secondary’ safety relief pipework. This can then be routed upwards out of the cellar or below ground level installation. Note the direction of flow arrow on the secondary safety relief valve. There must not be any valve, tap or other device that could interrupt the flow of water in the pipe route between the boiler safety valve and the point of discharge.

The discharge position must comply with all standards, appropriate codes of practice and building regulations. The discharge pipe MUST NOT be less than 15mm diameter and any vertical runs kept to an absolute minimum. Consideration should be given to the fitting of an additional expansion vessel on systems of larger volume.

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