

Flow Rate & Flow Temperature setting

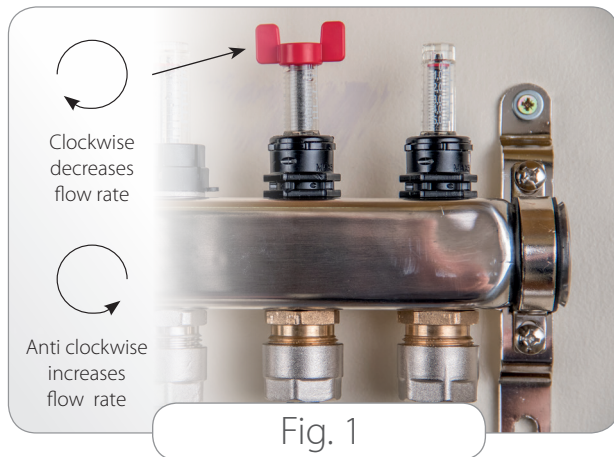


Fig. 1

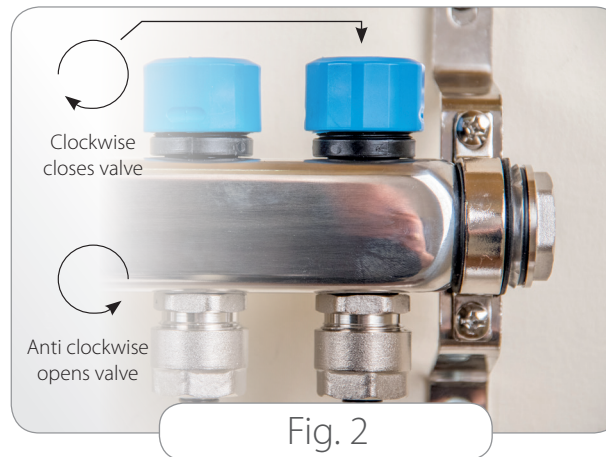


Fig. 2

1

IMPORTANT: Adjust flow rate by hand only using the supplied red adjustment key. Do not force the flow gauge beyond fully open, as this will cause damage to the flow meter. Do not use pliers or grips to adjust or over tighten the flow gauges.

To adjust flow rate, turn the sight glass using the red key clockwise to decrease flow rate and anti-clockwise to increase flow rate (see Fig 1).

Flow rate is indicated by the red marker in the sight glass. Each pipe loop will require flow rate setting to match the circuit length. Check with table in Fig 3 to match Ltrs/Min with length of each pipe loop.

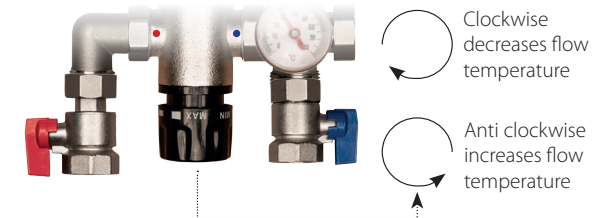
Flow gauge base fitting should not be tightened more than 5 N/m.

Manual return valves (blue head) are adjusted by turning the blue head clockwise to close the valve and anti-clockwise to open the valve (see Fig 2).

The Blue manual head adjuster can be replaced with an electronic actuator when commissioning electrics,

To protect final floor finish and have the correct settings for floor constructions, the mixer valve must be set correctly. Flow temperature input is adjusted by turning the black temperature control knob. Clockwise reduces flow temperature and anti clockwise increases flow temperature.

Adjust the flow temperature to suit the floor construction and floor finish. Flow temperature is indicated by the temperature gauge on the top flow elbow.



Approximate Flow Rate Guide*

Length of heating** circuit (Metres)	Flow rate (litres per min)
20	0.5
30	0.6
40	0.8
50	1.2
60	1.4
70	1.7
80	1.9
90	2.3
100	2.5
110	2.8
120	3.0

Fig. 3

- Pipe in Overfloor panel systems 35°C*.
- Pipe in Solid screed construction (staples, cliptrack, multipanel) 45°C*.
- Pipe in Joisted floor construction (spreader plate, foiltec) 65°C*.

* Check with floor finish suppliers before introducing warm water into the floor heating system as some flooring materials, in particular wood, require limiting of floor surface temperatures. Floor surface temperatures can be automatically controlled with the installation of our floor probe and correct thermostat programming.

***NOTE**
Flow rates may be increased or decreased to adjust performance. A flow and return temperature differential of approx 10°C is preferred.

If two pipe circuits are attached to one port with a 'Y' connector, then both lengths should be added when working out flow rate.

****NOTE**
The maximum advisable circuit lengths are:
16mm pipe – 100m per circuit
12mm pipe – 60m per circuit