Type 2 Approved Valves (UK Installations) – Installation, Commissioning and in service test requirements

This information is supplementary to and must be read in conjunction with the assembly instructions, technical product information and clean and care instructions supplied with your thermostatic mixing valve.

The installation must comply with the requirements of the Water Supply (Water Fittings) Regulations 1999.

The thermostatic mixing valve shall be installed in such a position that maintenance, commissioning and testing can be undertaken.

The fitting of isolation valves is required as close as practicable to the water supply inlets of the thermostatic mixing valve.

The fitting of strainers (supplied) is required into the water supply inlets of the thermostatic mixing valve (as shown in the assembly instructions).

When commissioning the thermostatic mixing valve check the following:

1. The designation of the thermostatic mixing valve matches the application.
2. The supply pressures are within the valves operating range.
3. The supply temperatures are within the valves operating range.
4. Isolating valves are provided.

If all these conditions are met, proceed to set the temperature as stipulated in the installation instructions.

It is a requirement that Type 2 approved valves shall be verified against the original set temperature results once a year. When commissioning/testing is due the following performance checks shall be carried out.

1. Measure and record the mixed water temperature at the outlet.
2. Isolate the cold water supply to the TMV, wait for five seconds, if water is still flowing check that the temperature is below 46°C. If there is no significant change to the set outlet temperature (±2°C or less change from the original settings) and the fail-safe shut off is functioning, then the valve is working correctly and no further service work is required.

Note, if there is residual flow during the commissioning or annual verification (cold water supply isolation test), then this is acceptable providing the temperature of the water seeping from the valve is no more than 2°C above the designated maximum mixed water outlet temperature setting of the valve.

Temperature readings should be taken at the normal flow rate after allowing for the system to stabilise.

The sensing part of the thermometer probe must be fully submerged in the water that is to be tested.

Any TMV that has been adjusted or serviced must be re-commissioned and re-tested in accordance with the manufacturers' instructions.

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