

# Thermostatic Mixing Valve Installation and Service



## Temperature regime: This is the traditional approach to Legionella control

The HSE ACoP and Guidance L8 recommends that hot water should be stored at 60°C and distributed so that it reaches a temperature of 50°C within 1 minute at outlets. Care is needed to avoid much higher temperatures because of the risk of scalding. At 50°C the risk of scalding is small for most people but the risk increases rapidly with higher temperatures and for longer exposure times. However the risk, particularly to young children, or the handicapped or elderly, and to those with sensory loss will be greater. Where a significant scalding risk has been identified, the use of TMVs on baths and showers should be considered to reduce temperature. These need to be placed as close to the point of use as possible.

Users should refer to the manufacturers' operating instructions to ensure these devices are working safely and correctly.

Where temperature is the primary control measure to control the multiplication of Legionella Bacteria and the systems are utilised by those at risk from scalding the installation of TMVs must be considered.

Where installed, TMVs will require regular servicing, generally twice per year. Where the valves installed are of the "fail safe" type (ie the valve will shut down if either the hot or cold water supply fails) then a fail safe test should be carried out to check the valve performance.

IWS water hygiene operatives are trained in the fail safe testing and servicing of all makes of TMVs. The TMVs can be fail safe tested and serviced and calibrated at agreed frequencies dependant on the valve manufacturers recommendation and the hardness of the water (scale formation is a primary consideration when deciding on service frequency).

The valve asset number, fail safe test result and service / calibration details are recorded by IWS operatives on their hand held tablet and the data uploaded via GPRS mobile communications to the IWS Online Report Tracker system; the data is then visible by the client via the IWS web site login to ORT.

Valves that do not "fail safe" or cannot be calibrated are either isolated and the client notified immediately or replaced/repared as agreed.

IWS offer TMV fail safe testing calibration and servicing utilising trained IWS operatives working from regional service centres across the country.

All of our Legionella risk assessments are completed by City and Guilds qualified, competent and experienced professionals, in accordance with L8 HSG274, British Standard BS 8580 and UKAS ISO/IEC 17020:2012.

### Monthly Public Health England Report

Public Health England provides a monthly report detailing the number of cases of confirmed Legionnaires disease. This helps to identify sources of infection so that control measures can be kept up to standard and improved on: <https://www.gov.uk/government/publications/legionnaires-disease-monthly-surveillance-reports-2019>



TMV SERVICE REPORT

DATE	TIME	LOCATION	VALVE MAKE	VALVE TYPE	TEST RESULT	COMPLIANCE	REMARKS	OPERATIVE	CLIENT
27/08/2019	10:30	Peart House	Delta	TMV	Fail	Fail	Valve replaced	J. Smith	Peart House
27/08/2019	11:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	11:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	12:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	12:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	13:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	13:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	14:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	14:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	15:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	15:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	16:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	16:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	17:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	17:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	18:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	18:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	19:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	19:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	20:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	20:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	21:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	21:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	22:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	22:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	23:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	23:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	00:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	00:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	01:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	01:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	02:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	02:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	03:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	03:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	04:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	04:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	05:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	05:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	06:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	06:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	07:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	07:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	08:00	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
27/08/2019	08:30	Peart House	Delta	TMV	Pass	Pass	Valve calibrated	J. Smith	Peart House
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