

Application

Safe, accurate and automatic adjustment and limitation of the domestic water temperature, adjustable between 30° and 50°C.

Installation

- Nova-Mix valves may be installed in any position
- Soldering to pipework connections must not be undertaken with the valve in position, as this could cause damage to the thermostat
- Before installing the mixing valve flush all pipework to remove dirt and solder debris; if the water quality is suspect „Y“ strainers should be fitted.
- The mixing valve is fitted with non return valves on both cold and hot water inlets.

Operation

The design of the mixing valve allows for examining all inner components without disconnecting the housing. The Nova Mix Compact does not require any maintenance work.

Temperature setting (Take off protecting cap temporarily)

The required mixed hot water temperature is adjusted with the outlet tap in open position. The outlet temperature is adjusted by turning the spindle with a screwdriver. Turning clockwise reduces the temperature; turning anti-clockwise will increase the outlet temperature.

When the correct temperature has been set, ensure that the protecting cap is fitted and locked into place. In the case of health care installations please ensure that the correct temperature settings are adhered to 43° C maximum at outlets accessible to patients, residents and visitors. For other applications such as bidets a „safe“ temperature of 36° - 38° should be set.

Blend temperature settings and cold water failure tests should be carried out at least half yearly and in accordance with department of health guidelines.

Technical data

Conditions of use for Type 2 valves

	High Pressure
Maximum Static Pressure – Bar	10
Flow Pressure, Hot & Cold – Bar	0.5 to 1.5
Hot Supply Temperature – °C	55 to 65
Cold Supply Temperature – °C	Equal to or Less than 25°C

NOTE: Valves operating outside these conditions cannot be guaranteed by the Scheme to operate as Type 2 valves.

Max. constant input pressure difference: 2 bar.
NovaMix COMPACT 50 TMV2 complies to EN1111.

Designation of use HP:

B = bidet
W = washbasin
S = shower
T = tub/bath

If a water supply is fed by gravity then the supply pressure should be verified to ensure the conditions of use are appropriate for the valve.

Recommended outlet temperatures:

44°C for bath fill but see notes below;
41°C for showers;
41°C for washbasins;
38°C for bidets.

The mixed water temperatures must never exceed 46°C.

The maximum mixed water temperature can be 2°C above the recommended maximum set outlet temperatures.

Note:

46°C is the maximum mixed water temperature from the bath tap. The maximum temperature takes account of the allowable temperature tolerances inherent in thermostatic mixing valves and temperature losses in metal baths.

It is not a safe bathing temperature for adults or children.

The British Burns Association recommends 37 to 37.5°C as a comfortable bathing temperature for children. In premises covered by the Care Standards Act 2000, the maximum mixed water outlet temperature is 43°C.

The thermostatic mixing valve will be installed in such a position that maintenance of the TMV and its valves and the commissioning and testing of the TMV can be undertaken.

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

Strainers: The fitting of strainers is recommended as close as is practicable to the water supply inlets of the thermostatic mixing valve.

Commissioning notes for Thermostatic Mixing Valves:

The first step in commissioning a thermostatic mixing valve is to check the following:
The designation of the thermostatic mixing valve matches the application.
The supply pressures are within the valves operating range.
The supply temperatures are within the valves operating range.
Isolating valves (and strainers preferred) are provided, by the installer.
If all these conditions are met, proceed to set the temperature as stipulated in the manufacturer installation instructions.

Note: The method for adjusting the mixed water temperature is described under „Temperature setting“.

- The mixed water temperature at the terminal fitting must never exceed 46°C.

It is a requirement that all TMV2 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.

Measure the mixed water temperature at the outlet.

Carry out the cold water supply isolation test by isolating 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 ($\pm 2^\circ\text{C}$ 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.

Notes

If there is a residual flow during the commissioning or the 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.

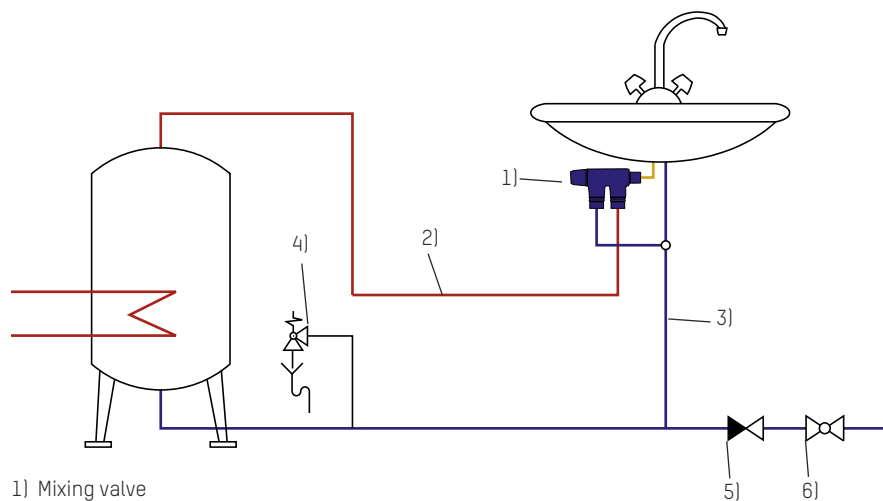
The sensing part of the thermometer probe must be fully submerged in the water that is to be tested.

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

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



Installation example



- 1) Mixing valve
- 2) Hot water supply
- 3) Cold water supply
- 4) safety relief valve
- 5) non return valve
- 6) pressure relief valve

Observe local regulations

Accessoires:



Type	Description	Connections
210.3222.000	Compression fitting	1/2" x 10/1 Cu-pipe
210.3223.000	Compression fitting	1/2" x 12/1 Cu-pipe
210.3225.000	Compression fitting	1/2" x 15/1 Cu-pipe
296.5223.004	Adaptor insert	for flat sealing
278.1002.000	Thermometer	1/2" male thread

Approvals:



EN1111