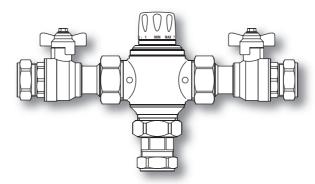
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Thermostatic Mixing Valves 61022CPB & 61028CPB

Intamix Pro V

Installation and Maintenance Instructions





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In this procedure document we have endeavoured to make the information as accurate as possible.

We cannot accept any responsibility should it be found that in any respect the information is inaccurate or incomplete or becomes so as a result of further developments or otherwise.

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Introduction

A thermostatic mixing valve (TMV) is used in domestic hot water systems.

It's function is to maintain the temperature of the mixed water, supplied to the user, constant at the set value when there are variations in the supply pressure and temperature of the incoming hot and cold water or in the flow rate.

The Intamix Pro V TMV has been designed specifically for systems requiring high flow rates, for example group showing.

Systems of this nature require precise, stable temperature control, especially when there are variations in the flow rates drawn off by the users.

Patent Pending N. MI2001A001645.

Products

Intamix Pro V 22mm with isolating unions	61022CPB
Intamix Pro V 28mm with isolating unions	61028CPB

Technical Data

Temperature range: 30 to 65°C

Max. working pressure: 14 bar - Static

5 bar - Dynamic

Min. working pressure 0.2 bar Max. inlet temperature: 85°C Max. inlet ratio (H/C or C/H) 2:1

Minimum flow rate required to

maintain stability: 61022CPB 8.3 l/min

61028CPB 13.0 l/min

Connections: 22mm & 28mm compression for copper pipe

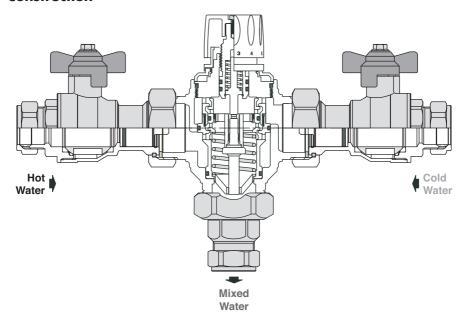
Note: Use BS EN 1057 R250 (half hard) copper pipe with compression joints to BS EN 1254-2

Outlet Combinations

Intamix Pro V thermostatic mixing valves (TMVs), due to their flow characteristics, can be installed to control groups of outlets, such as showers or wash basin taps.



Construction



Installation

Before installation the system must be checked to ensure that it's operating conditions are within the range of the valve; eg the supply temperatures, pressures and flow rates.

Systems must be flushed to remove any dirt or debris, which may have accumulated during installation of the pipework.

Failure to remove dirt or debris may affect the performance and the manufacturer's product guarantee.

The installation of filters, of appropriate capacity, at the inlet from the mains supply is always advisable.

In areas which are subject to highly aggressive water, arrangements must be made to treat the water before it enters the valve.

Intamix Pro V TMV must be installed strictly in accordance with the Water Supply (Water Fitting) Regulations 1999, any local authority regulations and the diagrams in this manual.

They can be installed in any orientation, either vertically or horizontally.



Installation

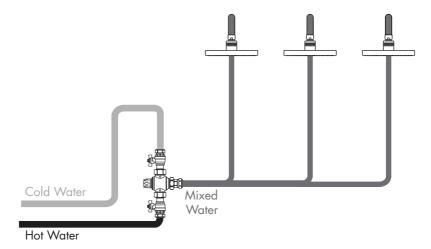
The following are shown on the mixer body:

- ~ hot water inlet, denoted by the letter 'H'.
- ~ cold water inlet, denoted by the letter 'C'.

It is essential that access to the valve is totally unobstructed for any maintenance which may be required or to the connections.

The pipework to or from the valve must not be used to support the valve unless adequately supported.

Application



Commissioning

After installation, the valve must be tested and commissioned in accordance with the instructions given below, taking into account current applicable standards and Codes of Practice.

- 1. Ensure that the system is clean and free from any dirt or debris before commissioning.
- It is recommended that the temperature is set using a suitable calibrated digital thermometer. The valve is commissioned by measuring the temperature of the mixed water emerging at the point of use.
- 3. The maximum discharge temperature from the valve must be set to take account of fluctuations due to simultaneous use.
 - Allow conditions to stabilise before measuring the temperature and commissioning
- 4. Adjust the temperature using the adjusting knob on the valve.



Setting the Temperature

The temperature is set to the required value by means of the adjusting knob with the graduated scale located at the top of the valve.

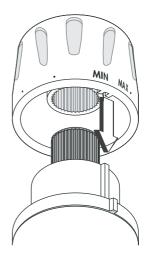
Preset Locking

Position the adjusting knob to the temperature required.

Unscrew the retaining screw.

Remove the knob by pulling away from the valve and reposition on the splined shaft so that the internal slot locates on the position indicator on the knob frame.

Re fit and tighten the retaining screw.



Maintenance

In service, tests should be carried out regularly to monitor the TMV's performance, as deterioration could indicate that the valve and/or the system require maintenance.

If, during these tests, the temperature of the mixed water has changed significantly when compared with the previous test, the details given in the Installation and Commissioning sections should be checked and maintenance carried out.

The following should be checked regularly to ensure that the optimum performance levels of the valve are maintained.

Every 12 months or more often if necessary.

- 1. Check and clean the system filters.
- Check that any non-return valves positioned upstream of the TMV are operating correctly and free from debris.
- Limescale can be removed from internal components by immersion in a suitable de-scaling fluid.
- 4. When the components have been checked and maintained, the mixed water outlet temperature should be checked using a thermometer following the procedure detailed in the Commissioning section.



Safety

If the thermostatic mixing valve is not installed, commissioned and maintained properly, according to the instructions contained in this manual, it may not operate correctly and may endanger the user.

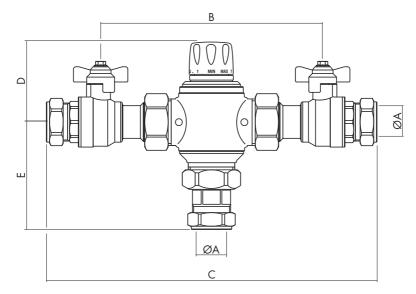
Make sure the connecting pipework to the TMV is not mechanically over-stressed. Over time this could cause a fracture, with consequential water loss which, in turn, could cause harm to property or people.

Water temperatures higher than 50°C can cause serious scalding.

During installation, commissioning and maintenance take the necessary precautions to ensure that such temperatures do not endanger people.

In the case of highly aggressive water, arrangements must be made to treat the water before it enters the thermostatic mixing valve, in accordance with current legislation. Otherwise, the TMV may become damaged and not operate correctly.

Dimensions



Product Code	Α	В	С	D	Е
61022CPB	22	200	300	74	98
61028CPB	28	200	304	74	99



Problem Solving

The following details are supplied for on site queries, should you require any further assistance our Technical Department can be contacted directly on 01889 272 199.

1 Hot water at the cold tap

- i. Operation of the insert check valves is hindered, check the valve is seated correctly.
- ii. Check Valves not fitted.
- iii. Unbalanced hot/cold supply pressure.

2 Fluctuating mixed water temperature

- i. Erratic supply temperatures at the inlets of the valve.
- ii. Starvation of the water supplied at the inlets of the valve.
- iii. Incorrect commissioning of the valve.

3 Erratic flow

- i. Insufficient water supplies.
- ii. Fluctuations in the supply pressures/temperatures.
- iii. Adverse effect created by other draw off points on the system.

4 No flow/reduced flow from valve

- i. In line filters are blocked.
- ii. Insufficient supply pressure.
- iii. Debris obstructing valve operation.
- iv. Valve requires servicing.

5 Valve does not fail safe when tested

- i. Installation not in accordance with our recommendations.
- ii. The minimum temperature differential not achieved.
- iii. Internal mechanism hindered by debris.



Notes

Please leave this Manual for the User

To active your product warranty please visit

www.intatec.co.uk

and click on Product Registration



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