WHY ANTI SCALD?

Hot water in the bathroom is responsible for around 570 serious injuries and 20 deaths each year in the UK. Those deaths and injuries are easily preventable by ensuring that water in baths and showers is not hot enough to cause injury.

The under 5s and the elderly are most at risk where there is more chance of a hot water scald having a serious effect.

ANTI SCALD VALVES

The solution to safe temperatures is to blend hot and cold together either in the water outlet, or in a valve just before the outlet.

These devices are known as Thermostatic Mixing Valves (TMV) or anti scald valves. They blend very hot water with cold water to deliver safe hot water at the outlet. Water that is still hot enough for a great hot bath or shower, but just not hot enough to cause injury.

ANTI SCALD VALVES

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These devices are known as Thermostatic Mixing Valves (TMV) or anti scald valves. They blend very hot water with cold water to deliver safe hot water at the outlet. Water that is still hot enough for a great hot bath or shower, but just not hot enough to cause injury.

FIT ANTI SCALD NOW

As well as being a passive safety device that prevents scalding every time a tap or shower is turned on, anti scald valves also actively make showering and bath filling more comfortable and convenient. Showers flow at a constant temperature and baths fill at just the right temperature to suit the bather.

THE TMV SCHEME

Anti scald valves have to have BuildCert accreditation; TMV2 for domestic, hotel applications and leisure and TMV3 for healthcare, education. TMV3 valves also comply with the NHS D08 Standard.

DOMESTIC TMV USE

• Private Homes • Hotels
• Housing Association Properties
• Schools • Leisure Facilities

COMMERCIAL TMV USE

• Healthcare Premises • Care Homes • Schools for less abled

LEGISLATION

Since 2006 new homes and refurbished bathrooms in Scotland should be fitted with anti scald valves by law. Similar legislation covered by Document G was released in April 2010 for England and Wales. Healthcare establishments, hotels and schools all have their own regulations and best practice which is detailed in this booklet.
WHY SO HOT?
To kill off legionella, the bacteria that causes Legionnaires disease, hot water should be stored at or above 60°C. Unfortunately, hot enough to kill legionella means hot enough to kill or disfigure people too. Legionella bacteria will die above 60°C, but thrive between 20°C and 50°C. Although the bacteria will not multiply at temperatures below 20°C, it will remain in the system as a potential threat.

COOLING IT DOWN
The process for cooling hot water is very simple. All it takes is a valve that blends hot water with cold in a controlled way which keeps the temperature steady. Anti scald or Thermostatic Mixing Valves (TMVs) are either installed into the water system close to the outlet, or they are an integral part of the outlet tap.

WHERE TO LOCATE A TMV
A separate TMV should be located within 2 metres of the outlet, which in practice means that they can be concealed beneath a bath. There are some TMVs that have the ability to control the temperature for a whole bathroom or washroom. When choosing a position, thought should be given to future access for servicing. The best TMVs have a cartridge construction which allows easy repair/maintenance.

CHOOSING THE RIGHT TMV
Depending on the installation, the main choice is between a separate TMV and a tap that has an integral TMV. Using a separate TMV means you can still choose whichever style of tap you want or simply keep your existing taps. An integral TMV comes in a range of stylish options and is easier to fit and service.

WHAT’S THE MOST IMPORTANT CONSIDERATION?
Flow rate. A valve has to be able to provide sufficient water to adequately and quickly fill a bath. If the flow rate is too low, a bath can go cold while it’s still being filled. Unfortunately a low pressure inlet will still result in a low pressure outlet - but the right TMV can ensure that the performance isn’t limited any further. Inta TMVs have the best flow rates on the market, and there is a marked difference in the performance of anti scald valves from different manufacturers - so choose carefully.

SERVICING
A TMV should be checked for correct operation at least once a year and should be serviced if performance becomes impaired. The majority of TMV faults are caused by heavy scaling or debris in the water. To combat this, filters should be fitted on both hot and cold water inlets. The range of TMVs from Inta have a filter fitted integrally as standard.

INSTALLATION
Careful thought about positioning a TMV is important to make the installation and subsequent maintenance as easy as possible. It needs to be easy to get at behind a bath panel or basin pedestal is recommended. For safety reasons, TMVs should never be installed under floorboards or anywhere that requires major dismantling to gain access. TMVs contain temperature sensitive parts, so soldering near the valve should be avoided.

Different TMVs are designed to work with different inlet pressures and temperatures so always check that the valve you intend to use will work with the system you have. Inta TMVs work with a wide range of inlet pressures and temperatures (check the data sheet provided by the manufacturer). Inta’s technical data is available from merchants and online at www.intatec.co.uk

COMMISSIONING
Valves should be installed according to the manufacturer’s instructions, taking care to commission them exactly as described. Settings will vary due to differences in inlet temperatures and pressures, so ensure the temperature is set according to each individual installation. Temperature readings should be taken at the normal flow rate, allowing a minute for the system to stabilise.
Beautiful lines and contrasting chrome and black define the Mio range. Make a bold statement in the shower with this elegant bar shower mixer with its stylish range of accessories. Create the bathroom look you really want with the peace of mind that goes with thermostatic protection.

**Mio**

Safe touch thermostatic bar shower with fixed riser, overhead soaker and sliding handset

**MI20012CP**

Safe touch thermostatic bath shower mixer with flexible slide rail kit and deck mounting legs

**CT30024CP**

To see our full range of Mio bath and shower products call now to get your copy of our latest consumer showering and commercial brochures 01889 272180

01889 272180
PART G3 - PREVENTION OF EXCESSIVE TEMPERATURES

“Where the operating temperature of domestic hot water in the storage vessel in a dwelling is capable of exceeding 80°C under normal operating conditions... the outlet from the storage vessel should be fitted with a device, such as an in-line tempering valve in accordance with EN15092, to ensure that the temperature supplied to the domestic hot-water distribution system does not exceed 60°C”.

This situation may occur in vessels that are used as heat stores, those connected to solar heat collectors or solid-fuel boilers that do not have intervening controls between the boiler and the vessel containing the hot water.

In order to comply with this new building legislation, Intatec, the anti scald specialists, have a range of products which comply with EN15092.

...
1. PROTECTING A BATH
UNDER BATH INSTALLATION, RETRO AND NEW BUILD PROTECTION

L-MIX UNDER BATH MIXING VALVE
• Complies with requirements of G3
• Simple, reliable and easy to set
• Available separately or as an under bath installation kit
• Easily fitted

L-MIX THERMOSTATIC UNDER BATH MIXING VALVE 15MM - 60010CP
L-MIX THERMOSTATIC UNDER BATH MIXING VALVE 22MM - 60011CP

INTAMIX THERMOSTATIC MIXING VALVE
• Complies with requirements of G3
• Available with service valves and filters
• High flow rates
• Easily serviceable cartridge
• Low pressure version available

INTAMIX THERMOSTATIC BLENDING VALVE 15MM - 40015CP
INTAMIX THERMOSTATIC BLENDING VALVE 22MM - 40022CP
INTAMIX LOW PRESSURE BATH MIXING VALVE - 60007CP

INSTALLATION - BATHS
The new building regulations Part G state that the temperature of water into a bath should be no more than 48°C, this also allows for heat loss in metal baths. A comfortable bathing temperature is around 37°C.

POSITION
Ideally behind a bath panel, remembering ease of access for future servicing and no more than 2 metres from the outlet.
For example an L-mix thermostatic mixing valve can be used.

Safe blended water to the hot tap
to the cold tap

Hot supply
Cold supply
2. PROTECTING A BATH
OVER BATH INSTALLATION PROTECTION

VUE SAFE TOUCH THERMOSTATIC BATH SHOWER MIXER
- Complies with requirements of G3
- Quarter turn ceramic disc cartridge
- High flow rate
- Suitable for all systems

INTAPLUS THERMOSTATIC BATH SHOWER MIXER
- Complies with requirements of G3
- Quarter turn ceramic disc cartridge
- High flow rate
- Suitable for all systems

INTAPLUS BATH SHOWER MIXER WITH DECK MOUNTING PILLARS AND KIT
922245CP

INSTALLATION - BATHS
The new building regulations Part G state that the temperature of water into a bath should be no more than 48°C, this also allows for heat loss in metal baths. A comfortable bathing temperature is around 37°C.

POSITION
Over bath installation
3. PROTECTING A SHOWER

**INTA MOOD CONTEMPORARY CONCEALED THERMOSTATIC SHOWER VALVE**

- Anti scald thermostatic technology
- TMV2 approved
- Suitable for all systems
- Operating pressure range: 0.2 - 5 bar

**CONTEMPORARY CONCEALED SHOWER VALVE AND SLIDE RAIL KIT**

90015656CP

**DELUCE PRIMO EXPOSED THERMOSTATIC BAR SHOWER VALVE**

- Anti scald thermostatic technology
- TMV2 approved
- Suitable for all systems
- Operating pressure range: 0.2 - 5 bar

**PRIMO EXPOSED SHOWER VALVE AND SLIDE RAIL KIT**

10031CP

**INSTALLATION - SHOWERS**

It is best practice to use an approved TMV or an integrated thermostatic shower to deliver water at a maximum temperature of 41°C, with a failsafe function should either the hot or cold water supply fail.

Examples of integrated showers are shown opposite and below.

Electric showers are not covered by these regulations.

**POSITION**

Integrated shower installation
3. PROTECTING BASINS AND BIDETS

IT’S ALL IN THE NAME.

POSITION
Ideally behind the pedestal or inside the vanity unit, remembering ease of access for future servicing and no more than 2 metres from the outlet.

It is usual to fit a separate TMV with a bidet set to a temperature of 37°C.

INSTALLATION - BASINS AND BIDETS
It is best practice to use a separate TMV or an integrated thermostatic basin tap to control the outlet temperature to a maximum of 41°C, with a failsafe function should either the hot or the cold water supply fail. This temperature allows for all of the normal uses of a basin including shaving.

The Intatherm basin tap shown opposite is an example of an anti scald thermostatic mixer tap.

INTAMIX THERMOSTATIC MIXING VALVE
- Complies with requirements of G3
- Available with service valves and filters
- High flow rates
- Easily serviceable cartridge
- Low pressure version available

INTAMIX THERMOSTATIC BLENDING VALVE 15MM - 40015CP
INTAMIX THERMOSTATIC BLENDING VALVE 22MM - 40022CP
INTAMIX LOW PRESSURE BATH MIXING VALVE - 60007CP

INTATHERM II TMV3 THERMOSTATIC BASIN MIXER TAP
- Easy to grip, simple operation
- TMV3 approved
- Operating pressure range 0.2 - 5 bar

INTATHERM II TMV3 THERMOSTATIC BASIN MIXER IT1003CP
4. PROTECTING A WASHROOM

INTAMIX THERMOSTATIC MIXING VALVE
- Complies with requirements of G3
- Available with service valves and filters
- High flow rates
- Easily serviceable cartridge
- Low pressure version available

INFRARED CONTEMPORARY BASIN MOUNTED TAP
- Infra red sensor operation
- Hygienic
- Also available as a mains option (IR121CP)

INSTALLING - WASHROOMS
An ideal installation for multi-basin washrooms is to use one valve to regulate up to two basins. Where this isn’t possible, individual valves can be used for each outlet. Combining an infra red tap with an intamix valve will maximise comfort and safety at the same time as saving valuable water - both hot and cold. Alternatively a TMV3 approved basin mixer tap can be used, shown on page 16.

CONTEMPORARY / MINIMALISTIC BASIN MOUNTED TAP (BATTERY)
IR120CP

POSITION
Ideally behind the pedestal or inside the vanity unit, remembering ease of access for future servicing and no more than 2 metres from the outlet.

It is usual to fit a separate TMV with a bidet set to a temperature of 37°C.
5. PROTECTING GROUP SHOWERS

INTAMIX PRO V
THERMOSTATIC MIXING VALVE

- Easily serviceable cartridge
- High flow rates
- Automatic shut off in the event of hot or cold water failure
- Inline check valves, strainers and isolating ball valves.

VR STAINLESS STEEL SHOWER PANEL

- Pre-plumbed - surface mounted
- Quick and easy installation
- TMV2 and TMV3 approval on panels complete with Intamix
- Vandal resistant
- Infra red option available (SP2903CP)

INSTALLING - GROUP SHOWERS

Group showers can either be centrally mixed using an appropriate TMV valve, serving up to 8 outlets or individually controlled with a point of use TMV. Combining TMVs with timed flow controls and vandal proof outlets provides strong resilience to hard wear and misuse.

INTAMIX PRO V THERMOSTATIC MIXING VALVE 22MM / 28MM
61022CP / 61028CP

VR STAINLESS STEEL SHOWER PANEL
SP9202CP
### 6. PRIVATE DWELLING TMV APPLICATIONS

#### BATH

<table>
<thead>
<tr>
<th>Question</th>
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<th>Recommended</th>
<th>Suggested</th>
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</thead>
<tbody>
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<td>Is a TMV required by legislation or by authoritative guidance?</td>
<td><strong>YES</strong> *</td>
<td>NO</td>
<td>YES</td>
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<tr>
<td>Is a TMV recommended by legislation or authoritative guidance?</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
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</tbody>
</table>

**What type of valve?**

- Appropriate Inta valve: **L-MIX 22mm, INTAMIX** underbath mixer or **TELO** thermostatic bath shower mixer

#### BASIN

<table>
<thead>
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<th>Question</th>
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<td>YES</td>
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</tbody>
</table>

**What type of valve?**

- Reference Documents: NA
- Appropriate Inta valve: **INTAMIX 15mm or PRIMO** thermostatic basin mixer

#### SHOWER

<table>
<thead>
<tr>
<th>Question</th>
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<td>NO</td>
<td>NO</td>
<td>YES</td>
</tr>
</tbody>
</table>

**What type of valve?**

- Appropriate Inta valve: **INTA MOOD, INTAPLUS** or **DELUGE**
## 7. HOUSING ASSOCIATION TMV APPLICATIONS

### BATH

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<th>YES</th>
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<td>Is a TMV recommended by legislation or authoritative guidance?</td>
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</tr>
<tr>
<td>Is a TMV suggested best practice?</td>
<td>YES</td>
</tr>
</tbody>
</table>

**What type of valve?**

Reference Documents: Housing Corp Standard and Document G: April 2010

Appropriate Inta valve: **INTAMIX 22mm or ION** thermostatic bath shower mixer

### BASIN

<table>
<thead>
<tr>
<th>Is a TMV required by legislation or by authoritative guidance?</th>
<th>NO</th>
</tr>
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<tbody>
<tr>
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</tr>
<tr>
<td>Is a TMV suggested best practice?</td>
<td>YES</td>
</tr>
</tbody>
</table>

**What type of valve?**

Reference Documents: Housing Corp Standard

Appropriate Inta valve: **INTAMIX 15mm or PRIMO** thermostatic basin mixer

### SHOWER

<table>
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<th>Is a TMV required by legislation or by authoritative guidance?</th>
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<td>Is a TMV suggested best practice?</td>
<td>YES</td>
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</tbody>
</table>

**What type of valve?**

Reference Documents: Housing Corp Standard

Appropriate Inta valve: **INTA MOOD, INTAPLUS or DELUGE**
### 8. HOUSING ASSOCIATIONS HOUSING FOR THE ELDERLY TMV APPLICATIONS

#### BATH
- Is a TMV required by legislation or by authoritative guidance? **YES**
- Is a TMV recommended by legislation or authoritative guidance? **YES**
- Is a TMV suggested best practice? **YES**

**What type of valve?**

<table>
<thead>
<tr>
<th>Reference Documents:</th>
<th>Housing Corp Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appropriate Inta valve:</td>
<td><strong>INTAMIX 22mm</strong></td>
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</tbody>
</table>

#### BASIN
- Is a TMV required by legislation or by authoritative guidance? **YES**
- Is a TMV recommended by legislation or authoritative guidance? **NO**
- Is a TMV suggested best practice? **YES**

**What type of valve?**

<table>
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<tr>
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</tr>
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<tbody>
<tr>
<td>Appropriate Inta valve:</td>
<td><strong>INTAMIX 15mm or INTATHERM II</strong></td>
</tr>
</tbody>
</table>

#### SHOWER
- Is a TMV required by legislation or by authoritative guidance? **YES**
- Is a TMV recommended by legislation or authoritative guidance? **NO**
- Is a TMV suggested best practice? **YES**

**What type of valve?**

<table>
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<tbody>
<tr>
<td>Appropriate Inta valve:</td>
<td><strong>VISTA Concealed or Exposed</strong></td>
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We believe that the Inta range of thermostatic mixing valves is the best available today, whatever the application. Whether a basin, bathroom, or communal shower room, Inta can provide you with a solution. All of the valves are WRAS, TMV2 and TMV3 certified, which means they are trusted for use in both domestic and commercial applications.
9. YOUNG PERSONS CARE HOME
TMV APPLICATIONS

BATH
Is a TMV required by legislation or by authoritative guidance?
YES
Is a TMV recommended by legislation or authoritative guidance?
YES
Is a TMV suggested best practice?
YES

What type of valve?

Reference Documents: D0H National Minimum Standards, Childrens Home Regulations, Care Standards Act, Care Homes Regulations, HSE Care Homes guidance

Appropriate Inta valve: INTAMIX 22mm

BASIN
Is a TMV required by legislation or by authoritative guidance?
YES
Is a TMV recommended by legislation or authoritative guidance?
YES
Is a TMV suggested best practice?
YES

What type of valve?

Reference Documents: Building Bulletin 87 2nd Edition

Appropriate Inta valve: INTAMIX 15mm or INTATHERM II

SHOWER
Is a TMV required by legislation or by authoritative guidance?
YES
Is a TMV recommended by legislation or authoritative guidance?
YES
Is a TMV suggested best practice?
YES

What type of valve?

Reference Documents: The School Premises Regulations/National minimum care standards section 25.8

Appropriate Inta valve: VISTA concealed or exposed

We believe that the Inta range of thermostatic mixing valves is the best available today, whatever the application. Whether a basin, bathroom, or communal shower room, Inta can provide you with a solution. All of the valves are WRAS, TMV2 and TMV3 certified, which means they are trusted for use in both domestic and commercial applications.
### 10. HOSPITAL AND PRIVATE HOSPITAL TMV APPLICATIONS

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<td>Is a TMV suggested best practice?</td>
<td>YES</td>
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What type of valve?

Reference Documents: NHS Health Guidance Note, D08

Appropriate Inta valve: **INTAMIX** 22mm

#### BASIN

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What type of valve?

Reference Documents: NHS Health Guidance Note, D08

Appropriate Inta valve: **INTAMIX** 15mm, **INTATHERM II** or **HTM64** hospital valve

#### SHOWER

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What type of valve?

Reference Documents: NHS Health Guidance Note, D08

Appropriate Inta valve: **VISTA**

---

**INTAMIX | 40022CP**

**INTAMIX | 40015CP**

**INTAMIX | 40015CP**

**INTATHERM II | IT1003CP**

**HTM64 | HTM09025CP**

We believe that the Inta range of thermostatic mixing valves is the best available today, whatever the application. Whether a basin, bathroom, or communal shower room, Inta can provide you with a solution. All of the valves are WRAS, TMV2 and TMV3 certified, which means they are trusted for use in both domestic and commercial applications.

The TMV3 approved Vista concealed and exposed sequential showers have been developed by adopting the principles of inclusive design. As a result the Vista delivers a shower which is suitable for any user, regardless of their sight or dexterity.
## 11. NHS AND PRIVATE NURSING HOMES
### TMV APPLICATIONS

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**What type of valve?**

- Reference Documents: NHS Health Guidance Note, Care Standards Act, Care Homes Regulation, D08
- Appropriate Inta valve: **INTAMIX 22mm**

#### BASIN

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**What type of valve?**

- Reference Documents: NHS Health Guidance Note, Care Standards Act, Care Homes Regulation, D08
- Appropriate Inta valve: **INTAMIX 15mm** or **INTATHERM II**

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**What type of valve?**

- Reference Documents: NHS Health Guidance Note, Care Standards Act, Care Homes Regulation, D08
- Appropriate Inta valve: **VISTA**

---

We believe that the Inta range of thermostatic mixing valves is the best available today, whatever the application. Whether a basin, bathroom, or communal shower room, Inta can provide you with a solution. All of the valves are WRAS, TMV2 and TMV3 certified, which means they are trusted for use in both domestic and commercial applications.

The TMV3 approved Vista concealed and Exposed Sequential showers have been developed by adopting the principles of inclusive design. As a result the Vista delivers a shower which is suitable for any user, regardless of their sight or dexterity.
12. HOTEL AND LEISURE CENTRES TMV APPLICATIONS

**BATH**

| Is a TMV required by legislation or by authoritative guidance? | NO |
| Is a TMV recommended by legislation or authoritative guidance? | NO |
| Is a TMV suggested best practice? | YES |

**What type of valve?**

Reference Documents: Guidance to the Water Regulations (G18.5)

Appropriate Inta valve: **INTAMIX 22mm, INTAMIX** underbath mixer or **PLUS** thermostatic bath shower mixer

---

**BASIN**

| Is a TMV required by legislation or by authoritative guidance? | NO |
| Is a TMV recommended by legislation or authoritative guidance? | NO |
| Is a TMV suggested best practice? | YES |

**What type of valve?**

Reference Documents: Guidance to the Water Regulations (G18.5)

Appropriate Inta valve: **INTAMIX 15mm or PRIMO** thermostatic basin mixer

---

**SHOWER**

| Is a TMV required by legislation or by authoritative guidance? | NO |
| Is a TMV recommended by legislation or authoritative guidance? | NO |
| Is a TMV suggested best practice? | YES |

**What type of valve?**

Reference Documents: Guidance to the Water Regulations (G18.5)

Appropriate Inta valve: **INTA MOOD, INTAPLUS or DELUGE**
### 13. SCHOOLS AND NURSERY FOR DISABLED TMV APPLICATIONS

#### BATH

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<td>Is a TMV suggested best practice?</td>
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**What type of valve?**


**Appropriate Inta valve:** **INTAMIX** 22mm

#### BASIN

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</tbody>
</table>

**What type of valve?**


**Appropriate Inta valve:** **INTAMIX** 15mm or **INTATHERM II**

#### SHOWER

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is a TMV required by legislation or by authoritative guidance?</td>
<td>YES</td>
</tr>
<tr>
<td>Is a TMV recommended by legislation or authoritative guidance?</td>
<td>YES</td>
</tr>
<tr>
<td>Is a TMV suggested best practice?</td>
<td>YES</td>
</tr>
</tbody>
</table>

**What type of valve?**


**Appropriate Inta valve:** **VISTA** concealed or exposed

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We believe that the Inta range of thermostatic mixing valves is the best available today, whatever the application. Whether a basin, bathroom, or communal shower room, Inta can provide you with a solution. All of the valves are WRAS, TMV2 and TMV3 certified, which means they are trusted for use in both domestic and commercial applications.
The Deluge from Inta offers thermostatic protection for every bathroom and shower room in the house. Beautifully designed to give an invigorating shower from generous soaker heads, both bath shower mixer and shower give a safe solution for you and your family.

**DELUGE**

DELUGE SHOWER KIT AND VALVE 10036CP

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**NEW OVER-THE-BATH THERMOSTATIC SOLUTIONS AVAILABLE NOW**

ION THERMOSTATIC BATH FILLER with deck mounting legs 50020CP

TELO THERMOSTATIC BATH FILLER with mounting legs TL50020CP