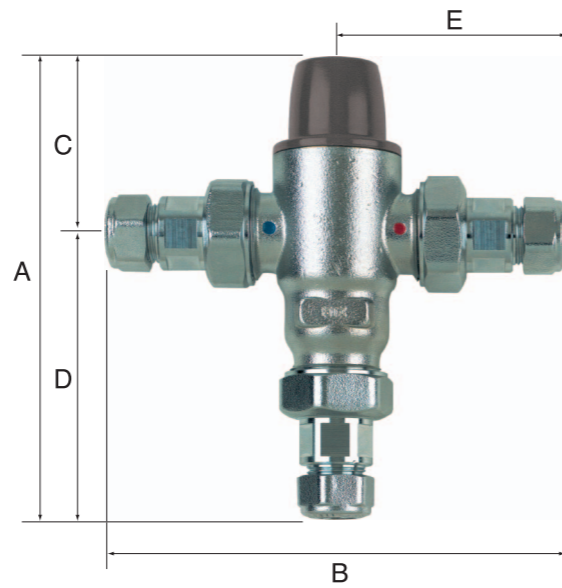
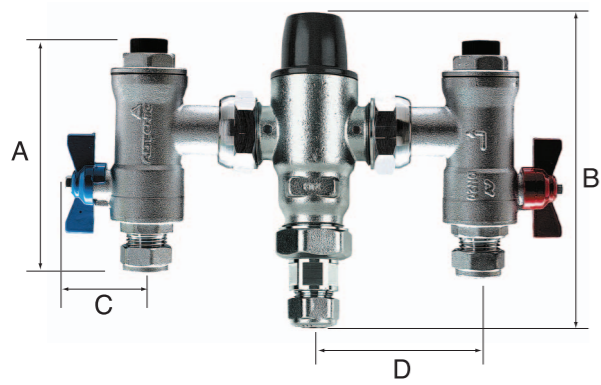


## Fail Safe Thermostatic Mixing Valve dimensions

MX Option



	Code	A/mm	B/mm	C/mm	D/mm	E/mm	Weight/kg
15mm comp	521215	161	161	61	100	80.5	1.10
22mm comp	521222	127.5	161	61	66.5	80.5	1.06
15mm MX	MX5215	161	116	42	82	N/A	1.84
22mm MX	MX5222	128	116	42	100	N/A	1.78



Unique temperature adjustment system



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## Fail Safe Thermostatic Mixing Valve



## simple and effective temperature control

**The Valve** Made to a patented technical design including a more responsive thermostatic element, Careflo is available as 15mm and 22mm compression and comes complete with built in check valves, integral filters and test points and ensures safe, scald free hot water for the user. The cartridge is made from Kemetal, a new material which reduces limescale and requires less servicing. Careflo now offers an improved flow rate of 1400 litres per hour. Also, Careflo retains a twelve to one dynamic balance supply in order to maintain the temperature of the mixed water discharging from the valve.

The Altecnic Mixcal Careflo™ Thermostatic Mixing Valve has been specifically designed and manufactured to meet the requirements of;

- National Health Service Model Engineering Specification - Thermostatic Mixing Valves - Health Premises - Do8.
- BS 7942:2000 - Thermostatic Mixing Valves for use in care establishments.

The Altecnic Mixcal Careflo™ Thermostatic Mixing Valve has been independently tested and approved by the TMV3 scheme as a **Type 3 valve** under the requirements of the National Health Service - Model Engineering Specification - DO8.

The Mixcal Careflo™ uses the most technologically advanced thermostat available. The element that controls the temperature of the mixed water discharging from the valve works proportionally on both hot and cold water supplies in order to maintain the temperature of the mixed water discharging from the valve.

**Applications** The Mixcal Careflo™ has been independently tested and approved by the TMV3 scheme as a Type 3 valve being suitable for the following applications:

- Wash Hand Basin - high and low pressure
- Showers - high and low pressure
- Bidets - high and low pressure
- Baths 44°C fill (unassisted) - high pressure
- Baths 46°C fill (assisted) - high pressure

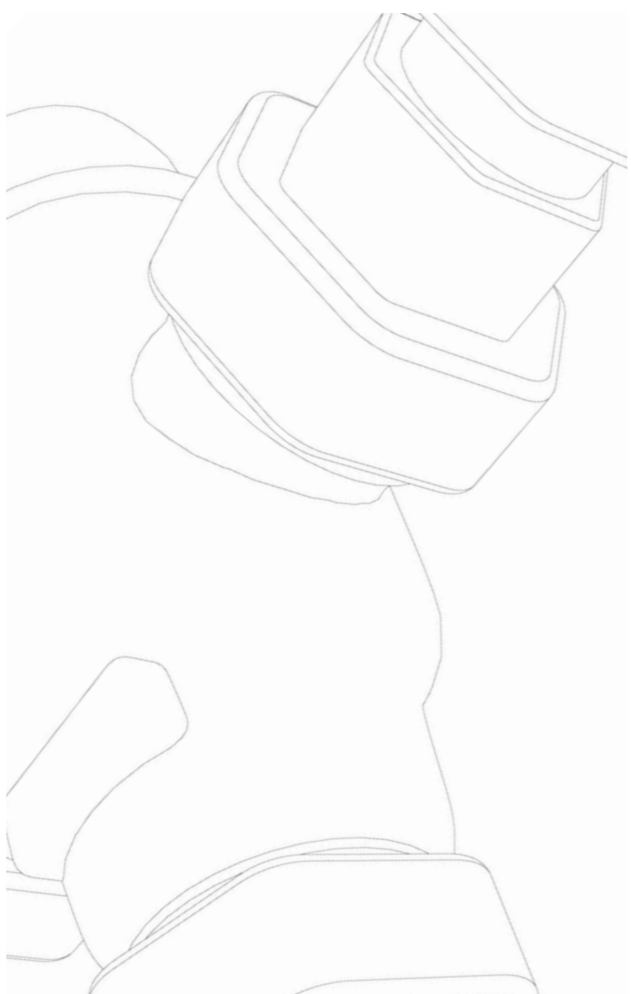
The Altecnic Mixcal Careflo™ Thermostatic Mixing Valve is suitable for installation on systems where more than one outlet is required to be served, providing that the supply conditions permit. The Mixcal Careflo™ is unique within the market as our valve is the only valve to cover all applications.\*

**Temperature Range** The Mixcal Careflo™ uses the

most technologically advanced thermostat available. It works proportionally on both the hot and cold water supplies, so that the mixed water discharging from the valve is maintained at the required temperature. The Mixcal Careflo™ has been designed to provide an operating temperature range of 30°C to 50°C.

**Models Available** As Altecnic has had many years of experience within the building services industry, we understand the importance of offering the designer and installer a wide range of options, therefore the Altecnic Mixcal Careflo™ is available as standard in the following options:

- 15mm Compression complete with built in check valves, integral filters, isolation valves and test points.
- 22mm Compression complete with built in check valves, integral filters, isolation valves and test points.
- 15mm compression 'T' pattern complete with built in check valves and strainers
- 15mm compression 'T' pattern complete with built in check valves and strainers



The Altecnic Mixcal Careflo™ is available with the following optional tail pieces in lieu of the compression tails:

- 1/2" Male Iron BSP tails
- 3/4" Male Iron BSP tails.
- 15mm Capillary Solder tails
- 22mm Capillary Solder tails
- 15mm MX Valves - Combined Isolation, filter, check valve and test point
- 22mm MX Valves - Combined Isolation, filter, check valve and test point.

### Features

- 1 One valve to suit all applications\*
- 2 Suitable for installation on balanced or unbalanced supplies
- 3 High flow rate
- 4 low pressure drop
- 5 Robust and reliable
- 6 Cartridge made from Kemetal which reduces limescale and requires less servicing
- 7 Wide temperature range
- 8 Anti tamper proof head
- 9 Low installation time
- 10 Suitable for installation on both new work or refurbishments

**Installation** Full and detailed installation and servicing instructions are supplied with every valve. The Altecnic Mixcal Careflo™ has been designed to ensure that it can be installed in any position, whether vertical or horizontal. It is essential that when the installation is designed or when the Mixcal Careflo™ is installed, that all current legislation is noted, i.e. the maximum distance from the outlet of the mixing valve to any terminal fitting.

In areas that are subject to high levels of aggressive water, provision must be made to treat the water prior to it entering the Mixcal Careflo™.

**Technical Information** The Altecnic Mixcal Careflo™ Thermostatic Mixing Valve has been specifically designed and manufactured to meet the requirements of;

- National Health Service Model Engineering Specification - Thermostatic Mixing Valves - Health Premises - DOB.
- BS 7942:2000 - Thermostatic Mixing Valves for use in care establishments. The Altecnic Mixcal Careflo™ Thermostatic Mixing Valve has been independently

tested and approved by the TMV3 scheme as a Type 3 valve under the requirements of the National Health Service - Model Engineering Specification - DOB.

Due to the very high performance levels needed to meet the requirements of the NHS - Model Engineering Specification - DOB, and the technology used to manufacture the Mixcal Careflo™, you can be confident of the positive temperature control.



### Technical Data

Temperature adjustment range:	30 - 50°C
Temperature control:	± 2°C
Maximum hot inlet temperature:	85°C
Operating pressure range:	low pressure: 0.2 - 1.0 bar high pressure: 1.0 - 5.0 bar
Maximum working pressure:	10 bar (static)
Minimum working pressure:	0.2 bar (dynamic)
Max unbalanced dynamic supply: (hot/cold or cold/hot)	12:1
Maximum pressure differential between hot and cold supplies:	low pressure: 0.4 bar high pressure: 2.0 bar
Valve body:	DZR brass (chrome plated)
Flow rate under 1 bar pressure differential:	1400 ltr /hour
Minimum temperature differential between hot inlet and mixed water outlet to ensure fail safe function:	10°C

\*Not suitable for low pressure bath applications.