



# ART 5212

## mixcal careflo thermostatic mixing valve

SD 011 07-05-2020

### Application

Thermostatic mixing valves are used to maintain the domestic hot water supplied to the user at a constant and safe temperature, when variations in the hot and cold water supply conditions and draw off flow rates occur.

Ideal for care homes and medical applications, the Mixcal Careflo is a failsafe thermostatic mixing valve that has been specifically designed and manufactured to meet the requirements of the latest National Health Service model engineering specification - D 08 and BS 7942 for use in vulnerable person applications.

The valve is designed primarily for single user outlets including wash basins, showers, baths and bidets but is also suitable for multiple outlet use.

### Operating Principles

The controlling element of the mixing valve is a temperature sensor fully immersed in the mixed water outlet port, which expands or contracts, continually maintaining the correct proportion of hot and cold water entering the valve.

### TMV3

The merchant range of fail safe thermostatic mixing valves have been designed and manufactured to meet the requirements of BS 7942:2000 and the National Health Service model engineering specification D 08 for use in healthcare premises, hospitals, care homes, and schools.

The elderly, young children and the disabled are at particular risk of life threatening scalds due to a potential lack of mobility, skin sensitivity or the ability to communicate with their carer.

The valve has been independently tested and approved as a type 3 valve under the TMV3 scheme.

The failsafe design shuts off the mixed water flow automatically in the event of disruption in the hot or cold water supply to the valve.

### Construction Details

Component	Material	Grade
Body	DRZ - chrome plated	BS EN 12165 CW602N
Cartridge & Shutter	Brass	BS EN 12165 CW614N
Springs	Stainless steel	
Seals	EPDM	

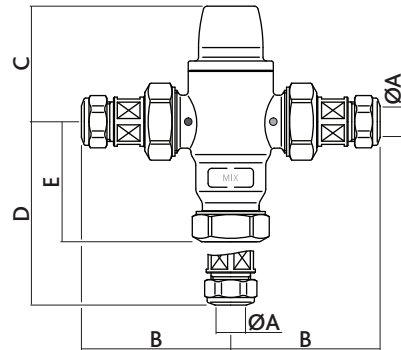
Ref No	Size	Connection	Type
521215	15 mm	compression	Cu x Cu x Cu
521222	22 mm	compression	Cu x Cu x Cu

### Accessories

MX valves complete with isolation valve, check valve, filter and test port.

AI-495015	15mm x 1"	compression x F
AI-495022	22mm x 1"	compression x F

### Dimensions

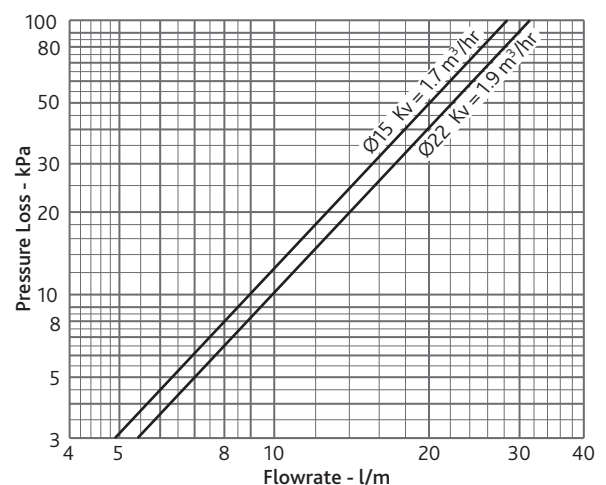


Ref No	ØA	B	C	D	E	kg
521215	15	79	61	98	-	1.10
521222	22	80.5	61	-	67	1.06

### Technical Data

Complies with:	BS 7942:2000
Max. working pressure:	10 bar - Static
Min. working pressure:	0.2 bar - Dynamic
D08 working pressure range:	0.2 to 1.0 bar - Low 1.0 to 5.0 bar - High
Max. inlet temperature:	85°C
Max. inlet pressure ratio (H/C or C/H):	5:1
Accuracy:	±2°C
Setting Range:	30 to 50°C
Min. temperature difference between inlet hot water and outlet mixed water:	10°C
Compression ends:	BS EN 1254-2
Complete with check valve and strainer in the inlet tailpieces.	

### Hydraulic Characteristics & Kv Value



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