



ART 5211

mixcal III thermostatic mixing valve

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.

Operating Principle

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

Even when the supply pressures drop, due to draw off of hot and cold water by other users on the same system, or variations in the incoming water temperatures, the mixing valve automatically responds and maintains the mixed outlet water at the required temperature.

BS EN1287 and TMV2

The valves have been specifically designed and manufactured to meet the requirements of BS EN 1287: 2017 and TMV2 Type Scheme. The valves have been independently tested and approved as a TYPE 2 valve under the NSFTMV2 scheme by the NSF Testing and Evaluation Centre.

Mixcal III TMV2 failsafe thermostatic mixing valves are suitable for use in domestic housing and commercial building for single user outlets including wash basins, showers, baths and bidets but are also suitable for multiple outlet use.

Construction Details

Component		Material	Grade		
Body		DZR - chrome plated	BS EN 12165 CW602N		
Controlling element		PPO thermoplastic			
Springs		Stainless steel			
Seals		EPDM			
Ref No	Size	Connection	Туре		
521115	15 mm	compression	Cu x Cu x Cu		
521122	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	В	С	D	E	kg
521115	15	79	65.5	98	-	1.30
521122	22	80.5	65.5	-	66.5	1.42

Technical Data

Complies with;	BS EN 1287:2017
Max. working pressure:	14 bar - Static
	5 bar - Dynamic
Max. inlet temperature:	85°C
Max. inlet pressure ratio (H/C or C/H):	2:1
Accuracy:	±2°C
Setting Range:	30 to 65°C
Min. temperature difference between	
inlet hot water and outlet mixed water:	15°C
Min. flow rate for stable temperature:	5 l/m
Compression ends:	BS EN 1254-2
Complete with check valve and strainer	
in the inlet tailpieces.	

Hydraulic Characteristics & Kv Value



©® Patents & Design Altecnic 2020

Altecnic Ltd retains all rights (including patents, designs and copyrights, trademarks and any other intellectual property rights) in relation to all information provided on or via the website, brochures or any other documents, including all texts, graphics and logos, contained on the website, in brochures or in any other documents published in the name of or on behalf of Altecnic Ltd in any form, without prior written consent of Altecnic Ltd.

Altecnic Ltd Mustang Drive, Stafford, Staffordshire ST16 1GW T: +44 (0)1785 218200 E: sales@altecnic.co.uk altecnic.co.uk Registered in England No: 2095101 E & O.E © Altecnic Limited. 2020 ALTECNIC[™]

SD 006 07-05-2020

CALEFFI group

altecnic