

ART 5211

mixcal III thermostatic mixing valve

SD 006 22-12-2025

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, continually 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.

Art 5211 Mixcal III

Mixcal III 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	

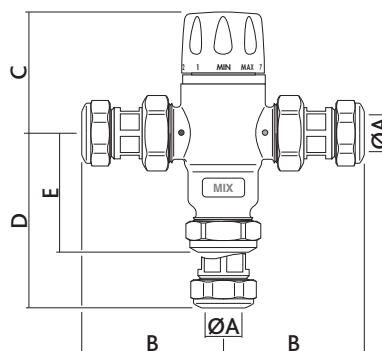
Ref No	Size	Connection	Type
521115	15 mm	compression	Cu x Cu x Cu
521122	22 mm	compression	Cu x Cu x Cu

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	B	C	D	E	kg
521115	15	79	65.5	98	-	1.30
521122	22	80.5	65.5	-	66.5	1.42

Technical Data

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

