ART 5231

mixcal mixpro® group thermostatic mixing valve

SD 010 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.

The Art 5231 range has been designed especially for centralised systems which demand high flow rates, for example with multiple outlets such as shower and wash basins.

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.

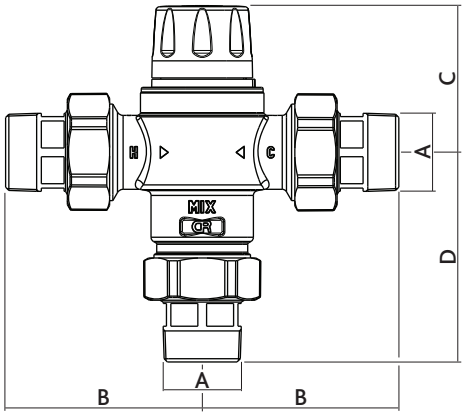
Construction Details

Component	Material		Grade
Body	DZR	½", ¾" & 28mm	BS EN 12165 CW721R
			BS EN 1982 CB752S
Shutter	Polymer		PPS G40
Springs	Stainless steel		AISI 302
Seals	EPDM		
Cap	Polymer		ABS

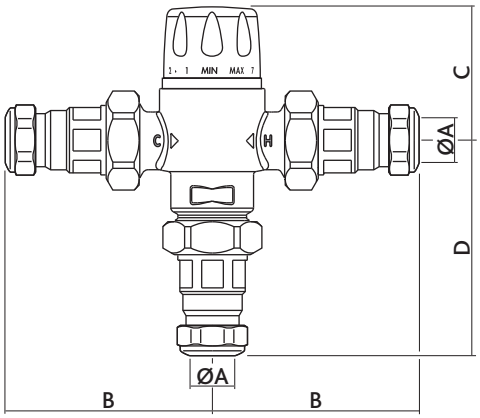
Technical Data

Max. working pressure:	14 bar - Static
	5 bar - Dynamic
Min. working pressure:	0.2 bar - Dynamic
Max. hot inlet temperature:	90˚C
Min. hot inlet temperature:	50˚C
Max. cold inlet temperature:	25˚C
Min. cold inlet temperature	5˚C
Max. inlet pressure ratio (H/C or C/H):	2:1
Accuracy:	±2˚C
Setting range:	35 to 65˚C
Check valve and filter:	28mm size only
Male threads:	BS EN 10226
Compression ends:	BS EN 1254-2
WRAS approved product:	

Dimensions



Ref No	A	B	C	D	kg
523140	R½				
523150	R¾	78.5	73.5	95.5	1.35
523160	R1	104.5	109	86.5	2.50
523170	R1¼	104.5	109	86.5	3.38
523180	R1½	121	129	90.5	3.81
523190	R2	131	139	90.5	5.58



Ref No	ØA	B	C	D	kg
523162	28	121	86.5	125.5	2.70

Kv Values

Size	½"	¾"	1"	1¼" & 28	1½"	2"
Kv m^3/hr		4.5	5.5	7.6	11.0	13.3

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