5231

thermostatic mixing valve
for multiple outlets

WRAS APPROVED PRODUCT

altecnic

5231 thermostatic mixing valve for multiple outlets

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 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.

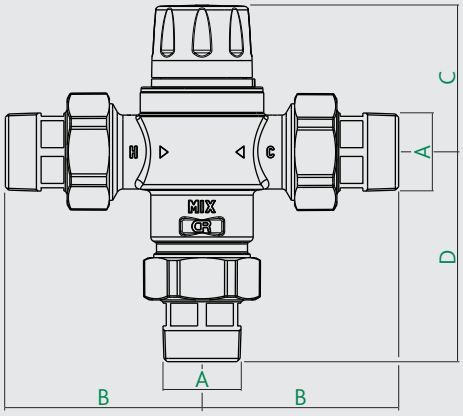
Even when the supply pressures drop, due to draw off of hot and cold water by other users on the same system, or variations in the incoming water temperatures, the mixing valve automatically responds and maintains the mixed outlet water at the required temperature.

Construction Details

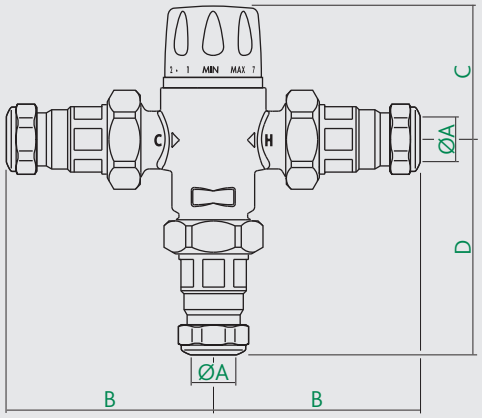
Component	Material		Grade
Body	DZR	¾" size	BS EN 12165 CW724R BS EN 1982 CB752S
Shutter	Polymer		PPS G40
Springs	Stainless steel		AISI 302
Seals	EPDM		
Cap	Polymer		ABS

Product Code	Size	Connection	Type
523150	¾"	screwed iron	M x M x M without check valve
523160	1"	screwed iron	M x M x M without check valve
523170	1¼"	screwed iron	M x M x M without check valve
523180	1½"	screwed iron	M x M x M without check valve
523190	2"	screwed iron	M x M x M without check valve
523162	28	Compression	Cu x Cu x Cu with check valve

Dimensions



Prod Code	A	B	C	D	kg
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	95.5	5.58



Prod Code	A	B	C	D	kg
523162	28	121	86.5	125.5	2.70

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
Male threads:	BS EN 10226
Compression ends:	BS EN 1254-2
WRAS approved product	

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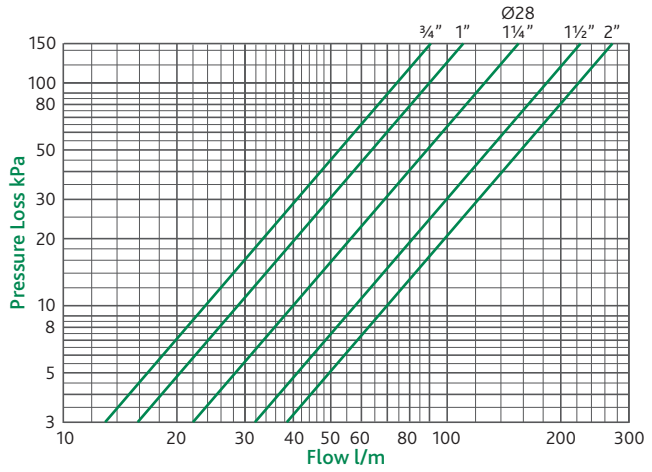
Flow Chart and Kv Values

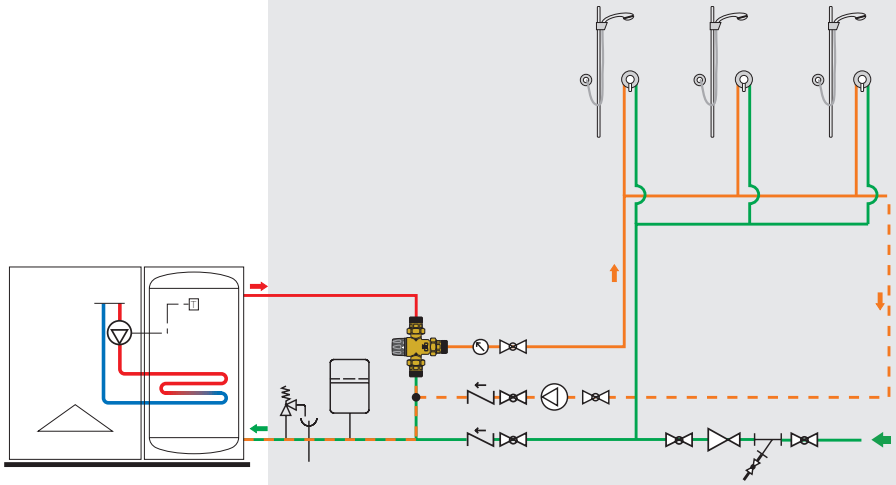


Flow rates recommended to ensure stable operation and accuracy of ±2˚C (balanced pressure Hot/Cold)

Size	Kv - m³/h	*ΔP = 1.5 bar	Min. - m³/h	Max.* - m³/h
¾"	4.5	¾"	0.6	5.5
1"	5.5	1'	0.8	6.7
Ø28 &1¼"	7.6	Ø28 & 1¼"	1.0	9.3
1½"	11.0	1½"	1.5	13.5
2"	13.3	2"	2.0	16.3

Typical Application

- Single check valve
- Isolating valve
- Temperature gauge
- Pressure reducing valve
- Pump
- Expansion vessel
- Safety valve
- Tunish
- Strainer with drain valve



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