



## MixCal™ THERMOSTATIC MIXING VALVE 521 SERIES

**CALEFFI**  
Hydronic Solutions



## PRODUCT FEATURES

- **Large mixing chamber and thermostatic cartridge:**  
Enables precise mixed temperature stability during inlet temperature and pressure variations.
- **Anti-scale polymer materials:**  
Inhibits scaling on internal sliding surfaces, assuring stable temperature control and long life.
- **Posi-Stop™ union seal and internal O-ring seals:**  
Stands up to treated water, chlorine or chloramines.
- **Installation flexibility:**  
½" to 1" sweat, NPT, Press, PEX crimp and PEX expansion union connections. Temperature gauge and check valves optional.
- **Tamper-proof adjustment setting lock:**  
Prevents tampering of the mixed water temperature setpoint.
- **Precisely manufactured:**  
Finely machined threads and double O-rings for smooth knob adjustment.

### Stable mixed temperature performance with durable construction for long life

Due to the unique mixing chamber design, MixCal™ produces stable mixed water temperature as inlet temperatures and pressures vary. Scale formation is minimized by way of sliding surfaces constructed of an anti-scale polymer, thus guarding against seizing or erratic mixed temperatures. Durable peroxide-cured EPDM O-ring seals resist wear from common water treatment additives such as chlorine and chloramines. [Complies with standards ASSE 1017, CSA B125.3, NSF/ANSI/CAN 372 and codes IPC, IRC, UPC, NPC, certified by ICC-ES.](#)

# PRODUCT RANGE - MixCal™ Thermostatic Mixing Valves



SIZES	OUTLET TEMP GAUGE	CODE				
		NPT	SWEAT	PRESS	PEX Crimp*	PEX Expansion**
1/2"		521400A (or AC)	521409A (or AC)	521406A (or AC)	521407A (or AC)*	521408A (or AC)**
	✓	521410A (or AC)	521419A (or AC)	521416AA (or AC)	521417A (or AC)*	521418A (or AC)**
3/4"		521500A (or AC)	521509A (or AC)	521506A (or AC)	521507A (or AC)*	521508A (or AC)**
	✓	521510A (or AC)	521519A (or AC)	521516A (or AC)	521517A (or AC)*	521518A (or AC)**
1"		521600A (or AC)	521609A (or AC)	521606A (or AC)	521607A (or AC)*	521608A (or AC)**
	✓	521610A (or AC)	521619A (or AC)	521616A (or AC)	521617A (or AC)*	521618A (or AC)**

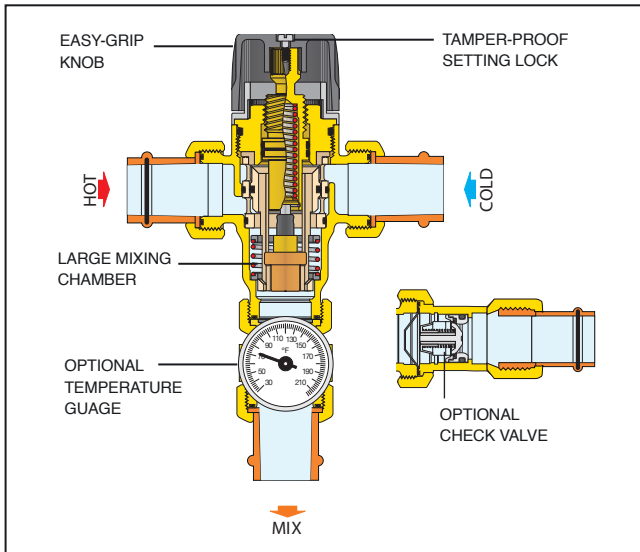


*AC suffix includes check valves*  
 \* ASTM F1807 Compliant.  
 \*\*ASTM F1960 Compliant.

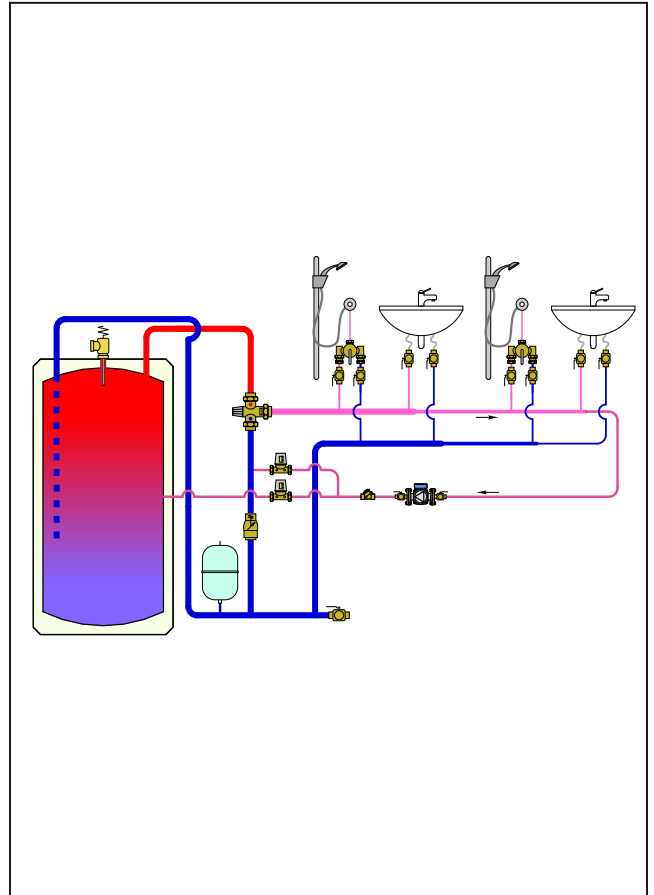
## PERFORMANCE

MAX. WORKING PRESSURE	200 psi (14 bar)
SETTING TEMPERATURE RANGE	85 – 150 °F (30 – 65 °C)
TOLERANCE	±3 °F (±2 °C)
MAX. HOT WATER INLET TEMP.	200 °F (93 °C)
MIN. FLOW FOR STABLE PERFORMANCE	1.0 GPM (4 l/min)

## CONSTRUCTION



## APPLICATION DIAGRAM



03617-24 NA | Caleffi17-058

Caleffi Partner:

WE RESERVE THE RIGHT TO CHANGE OUR PRODUCTS AND THEIR RELEVANT TECHNICAL DATA, CONTAINED IN THIS PUBLICATION, AT ANY TIME AND WITHOUT PRIOR NOTICE.



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