

## ICC-ES PMG Product Certificate



**PMG-1357**

Effective Date: October 2024

Revision Date: February 18, 2025

*This listing is subject to re-examination in one year.*

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CSI: DIVISION: 22 00 00—PLUMBING  
Section: 22 09 00—Instrumentation and Control for Plumbing

### Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: Temperature Actuated Mixing Valves for Hot Water Distribution Systems

Listee: CALEFFI North America, Inc.  
3883 W. Milwaukee Road  
Milwaukee, WI 53208  
[www.caleffi.us](http://www.caleffi.us)

### Compliance with the following codes:

2024, 2021, 2018, 2015, 2012 and 2009 *International Plumbing Code®* (IPC)  
2024, 2021, 2018, 2015, 2012 and 2009 *International Residential Code®* (IRC)  
2024, 2021, 2018, 2015, 2012 and 2009 *Uniform Plumbing Code®* (UPC)\*  
2020, 2015, 2010 and 2005 *National Plumbing Code of Canada®* (NPC)\*\*

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### Compliance with the following standards:

ASSE/ANSI 1017-2023, Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems  
CSA B125.3-2012, Plumbing Fittings

### Identification:

Each device shall have the following information marked on it and all markings shall be visible in the installed position:

- The manufacturer's recognized name, trademark, or other mark
- Model number
- Hot and cold indications on inlets.
- The ICC-ES PMG listing mark

The external valve outlet temperature adjusting device, when provided, shall be clearly identified, and permanently marked.

The markings shall be cast, etched, stamped, engraved or permanently inked on the body of the device, or on a brass or stainless steel plate securely attached to the device with a corrosion resistant means; or on a permanent label complying with UL 969.

Packaging shall be marked with:

- a) The manufacturer's recognized name, trademark, or other mark as well as the model number; or
- b) In the case of private labeling, the name, trademark, or other mark of the customer for whom the fitting was manufactured as well as the model number.
- c) The manufacturer's specified maximum flow rate determined; and
- d) The statement "For use with automatic compensating valves rated at xxx L/min (yyy gpm) or less", where xxx L/min (yyy gpm) is the lowest minimum flow rate recorded.

Installation:

Plumbing Supply fittings shall be installed in accordance with the manufacturer's instructions and the applicable codes.

Models:

#### Series 520 AngleMix™ Thermostatic Mixing Valve, Point of Distribution

Model No.	Description
520410A	½" MNPT union, mix outlet temp gauge
520414A	½" PEX crimp union, mix outlet temp gauge
520415A	½" PEX exp. union, mix outlet temp gauge
520416A	½" Press union, mix outlet temp gauge
520419A	½" SWT union, mix outlet temp gauge
520410AC	½" MNPT union, mix outlet temp gauge, inlet check valves
520414AC	½" PEX crimp union, mix outlet temp gauge, inlet check valves
520415AC	½" PEX exp. union, mix outlet temp gauge, inlet check valves
520416AC	½" Press union, mix outlet temp gauge, inlet check valves
520419AC	½" SWT union, mix outlet temp gauge, inlet check valves
520510A	¾" MNPT union, mix outlet temp gauge
520514A	¾" PEX crimp union, mix outlet temp gauge
520515A	¾" PEX exp. union, mix outlet temp gauge
520516A	¾" Press union, mix outlet temp gauge
520519A	¾" SWT union, mix outlet temp gauge
520510AC	¾" MNPT union, mix outlet temp gauge, inlet check valves
520514AC	¾" PEX crimp union, mix outlet temp gauge, inlet check valves
520515AC	¾" PEX exp. union, mix outlet temp gauge, inlet check valves
520516AC	¾" Press union, mix outlet temp gauge, inlet check valves
520519AC	¾" SWT union, mix outlet temp gauge, inlet check valves
520610A 001	1" MNPT union, mix outlet temp gauge
520614A 001	1" PEX crimp union, mix outlet temp gauge
520615A 001	1" PEX exp. union, mix outlet temp gauge
520616A 001	1" Press union, mix outlet temp gauge
520619A 001	1" SWT union, mix outlet temp gauge
520610AC 001	1" MNPT union, mix outlet temp gauge, inlet check valves
520614AC 001	1" PEX crimp union, mix outlet temp gauge, inlet check valves
520615AC 001	1" PEX exp. union, mix outlet temp gauge, inlet check valves
520616AC 001	1" Press union, mix outlet temp gauge, inlet check valves
520619AC 001	1" SWT union, mix outlet temp gauge, inlet check valves
520051A	Replacement union body

**Series 520 AngleMix™ DL Thermostatic Mixing Valve, Point of Distribution or Point of Use**

Model No.	Description
520410AC DL	1/2" NPT male union, temp. gauge, inlet checks
520414AC DL	1/2" PEX Crimp unions, temp. gauge, inlet checks
520415AC DL	1/2" PEX Expansions unions, temp. gauge, inlet checks
520416AC DL	1/2" press, temp. gauge, inlet checks
520419AC DL	1/2" sweat, temp. gauge, inlet checks
520510AC DL	3/4" NPT male union, temp. gauge, inlet checks
520514AC DL	3/4" PEX Crimp unions, temp. gauge, inlet checks
520515AC DL	3/4" PEX Expansions unions, temp. gauge, inlet checks
520516AC DL	3/4" press, temp. gauge, inlet checks
520519AC DL	3/4" sweat, temp. gauge, inlet checks
520610AC DL	1" NPT male union, temp. gauge, inlet checks
520614AC DL	1" PEX Crimp unions, temp. gauge, inlet checks
520615AC DL	1" PEX Expansions unions, temp. gauge, inlet checks
520616AC DL	1" press, temp. gauge, inlet checks
520619AC DL	1" sweat, temp. gauge, inlet checks

**Series 520 AngleMix™+ Thermostatic Mixing Valve, Point of Distribution**

Model No.	Description
520610A	1" NPT male union, temp. gauge, inlet checks
520614A	1" PEX Crimp unions, temp. gauge
520615A	1" PEX Expansions unions, temp. gauge
520616A	1" press, temp. gauge
520619A	1" sweat, temp. gauge
520610AC	1" NPT male union, temp. gauge, inlet checks
520614AC	1" PEX Crimp unions, temp. gauge, inlet checks
520615AC	1" PEX Expansions unions, temp. gauge, inlet checks
520616AC	1" press, temp. gauge, inlet checks
520619AC	1" sweat, temp. gauge, inlet checks
520061A	Replacement union body

**Series 520 TankMixer™+ Thermostatic Mixing Valve Assembly Kits**

Model No.	Description
520500AX	3/4" FNPT appliance conn., flex hose, brass cross, 3/4" MNPT sys. conn.
520510AX	3/4" FNPT appliance conn., flex hose, brass cross, 3/4" MNPT sys. conn., gauge
520506AX	3/4" FNPT appliance conn., flex hose, brass cross, 3/4" press sys. conn.
520516AX	3/4" FNPT appliance conn., flex hose, brass cross, 3/4" press sys. conn., gauge
520509AX	3/4" FNPT appliance conn., flex hose, brass cross, 3/4" SWT sys. conn.
520519AX	3/4" FNPT appliance conn., flex hose, brass cross, 3/4" SWT sys. conn., gauge
520510AP	3/4" FNPT appliance conn., brass adaptors and cross, 3/4" MNPT sys. conn. gauge
520516AP	3/4" FNPT appliance conn., brass adaptors and cross, 3/4" press sys. conn. gauge
520519AP	3/4" FNPT appliance conn., brass adaptors and cross, 3/4" SWT sys. conn. gauge
KIT520510AX	3/4" FNPT appliance conn., service valves, hose, cross, 3/4" MNPT sys. conn. gauge
KIT520516AX	3/4" FNPT appliance conn., service valves, hose, cross, 3/4" press sys. conn. gauge
KIT520517AX	3/4" FNPT appliance conn., service valves, hose, cross, 3/4" PEX crimp sys. conn. gauge
KIT520518AX	3/4" FNPT appliance conn., service valves, hose, cross, 3/4" PEX Exp. sys. conn. gauge

KIT520519AX	3/4" FNPT appliance conn., service valves, hose, cross, 3/4" SWT sys. conn. gauge
KIT520510AP	3/4" FNPT appliance conn., service valves, brass adaptor & cross, 3/4" MNPT sys. conn. gauge
KIT520516AP	3/4" FNPT appliance conn., service valves, brass adaptor & cross, 3/4" press sys. conn. gauge
KIT520519AP	3/4" FNPT appliance conn., service valves, brass adaptor & cross, 3/4" SWT sys. conn. gauge

### Series 521 MixCal™+ Thermostatic Mixing Valve, Point of Distribution

Model No.	Description
521400A	1/2" MNPT union
521406A	1/2" Press union
521407A	1/2" PEX crimp union
521408A	1/2" PEX exp. union
521409A	1/2" SWT union
521400AC	1/2" MNPT union, inlet check valves
521406AC	1/2" Press union, inlet check valves
521407AC	1/2" PEX crimp union, inlet check valves
521408AC	1/2" PEX exp. union, inlet check valves
521409AC	1/2" SWT union, inlet check valves
521410A	1/2" MNPT union, mixed outlet temperature gauge
521416A	1/2" Press union, mixed outlet temperature gauge
521417A	1/2" PEX crimp union, mixed outlet temperature gauge
521418A	1/2" PEX exp. union, mixed outlet temperature gauge
521419A	1/2" SWT union, mixed outlet temperature gauge
521410AC	1/2" MNPT union, mixed outlet temperature gauge, inlet check valves
521416AC	1/2" Press union, mixed outlet temperature gauge, inlet check valves
521417AC	1/2" PEX crimp union, mixed outlet temperature gauge, inlet check valves
521418AC	1/2" PEX exp. union, mixed outlet temperature gauge, inlet check valves
521419AC	1/2" SWT union, mixed outlet temperature gauge, inlet check valves
521500A	3/4" MNPT union
521506A	3/4" Press union
521507A	3/4" PEX crimp union
521508A	3/4" PEX exp. union
521509A	3/4" SWT union
521500AC	3/4" MNPT union, inlet check valves
521506AC	3/4" Press union, inlet check valves
521507AC	3/4" PEX crimp union, inlet check valves
521508AC	3/4" PEX exp. union, inlet check valves
521509AC	3/4" SWT union, inlet check valves
521510A	3/4" MNPT union, mixed outlet temperature gauge
521516A	3/4" Press union, mixed outlet temperature gauge
521517A	3/4" PEX crimp union, mixed outlet temperature gauge
521518A	3/4" PEX exp. union, mixed outlet temperature gauge
521519A	3/4" SWT union, mixed outlet temperature gauge
521510AC	3/4" MNPT union, mixed outlet temperature gauge, inlet check valves
521516AC	3/4" Press union, mixed outlet temperature gauge, inlet check valves
521517AC	3/4" PEX crimp union, mixed outlet temperature gauge, inlet check valves
521518AC	3/4" PEX exp. union, mixed outlet temperature gauge, inlet check valves

521519AC	¾" SWT union, mixed outlet temperature gauge, inlet check valves
521600A	1" MNPT union
521606A	1" Press union
521607A	1" PEX crimp union
521608A	1" PEX exp. union
521609A	1" SWT union
521600AC	1" MNPT union, inlet check valves
521606AC	1" Press union, inlet check valves
521607AC	1" PEX crimp union, inlet check valves
521608AC	1" PEX exp. union, inlet check valves
521609AC	1" SWT union, inlet check valves
521610A	1" MNPT union, mixed outlet temperature gauge
521616A	1" Press union, mixed outlet temperature gauge
521617A	1" PEX crimp union, mixed outlet temperature gauge
521618A	1" PEX exp. union, mixed outlet temperature gauge
521619A	1" SWT union, mixed outlet temperature gauge
521610AC	1" MNPT union, mixed outlet temperature gauge, inlet check valves
521616AC	1" Press union, mixed outlet temperature gauge, inlet check valves
521617AC	1" PEX crimp union, mixed outlet temperature gauge, inlet check valves
521618AC	1" PEX exp. union, mixed outlet temperature gauge, inlet check valves
521619AC	1" SWT union, mixed outlet temperature gauge, inlet check valves
521101A	Replacement

#### Series 5231 MixCal+™ Thermostatic Mixing Valve, Point of Distribution

Model No.	Description
523160A	1" MNPT union
523166A	1" Press union
523168A	1" Sweat union
523170A	1-1/4" MNPT union
523176A	1-1/4" Press union
523177A	1-1/4" SWT union, mixed outlet temperature gauge
523178A	1-1/4" SWT union
523180A	1-1/2" MNPT union
523186A	1-1/2" Press union
523188A	1-1/2" SWT union
523190A	2" MNPT union
523196A	2" Press union
523198A	2" SWT union

#### Series 252 Solar Thermostatic Mixing Valve

Model No.	Description
252148A	1/2" Sweat, w/temp probe, checks, solar version
252149A	1/2" Sweat w/checks, solar version
252158A	3/4" Sweat, w/temp probe, checks, solar version
252159A	3/4" Sweat w/checks, solar version
252168A	1" Sweat, w/temp probe, checks, solar version
252169A	1" Sweat w/checks, solar version

**Series 6000 LEGIOMIX Digital Mixing Valve**

Legiomix® electronic mixing valve comply with the applicable requirement in CSA Z317.1.

600054A	3/4" NPT male, electronic mixing valve w/controller
600059A	3/4" sweat, electronic mixing valve w/controller
600056A	3/4" press, electronic mixing valve w/controller
600064A	1" MNPT electronic mixing valve w/controller
600066A	1" press electronic mixing valve w/controller
600069A	1" sweat electronic mixing valve w/controller
600074A	1-1/4" MNPT electronic mixing valve w/controller
600076A	1-1/4" press electronic mixing valve w/controller
600084A	1-1/2" MNPT electronic mixing valve w/controller
600086A	1-1/2" press electronic mixing valve w/controller
600089A	1-1/2" sweat electronic mixing valve w/controller
600094A	2" MNPT electronic mixing valve w/controller
600096A	2" press electronic mixing valve w/controller
600079A	1-1/4" sweat electronic mixing valve w/controller
600099A	2" sweat electronic mixing valve w/controller
600060A	2-1/2", ANSI Flange electronic mixing valve w/controller
600080A	3", ANSI Flange electronic mixing valve w/controller
600064A 001	1" NPT male union, 3/4" body
600069A 001	1" sweat union, 3/4" body
600066A 001	1" press union, 3/4" body

## Conditions of listing:

1. The CALEFFI's products recognized in this listing must be installed in accordance with the manufacturer's published installation instructions and the applicable codes.
2. The CALEFFI's products recognized in this listing are manufactured under a quality control program with annual surveillance inspections by ICC-ES.