THERMOSTATIC MIXING VALVES

CALEFFI Hydronic Solutions

Heating & Cooling

Components for today's modern hydronic systems

5231

5213

521

ICC ES PMG LOW LEAD

Meets requirements of NSF/ANSI 372-2011.

FUNCTIONS AND FEATURES

- High flow adjustable thermostatic mixing valve, 5231 series, for commercial point of distribution domestic water and radiant hydronic systems, DZR certified low lead brass, 1"— 2", sweat and NPT union.
- Anti-scale materials prevent scaling on internal sliding parts, that reduces jamming caused by lime deposits, assuring reliable, constant temperature setpoint and long, trouble-free operating life.
- Adjustable thermostatic and pressure balanced mixing valve, MixCal™ 521 series, for residential point of distribution domestic water and radiant hydronic systems, certified low lead brass, ½"—1", sweat and NPT union, ¾ press union.
- Optional outlet temperture gauge speeds up the temperature setting process and provides dedicated proof-of-temperature verification to aid in the commisioning process (521, 5231).
- Adjustable thermostatic and pressure balanced mixing valve, 5213 series, for residential point of use (scald protection) domestic water systems with locking setpoint, certified low lead brass, ½"—1", sweat and NPT union.
- Check valves in inlet hot and cold ports (standard for 5213 series, optional for 521 and 5231 series).

PRODUCT RANGE

NPT OR SWEAT UNION CONNECTIONS

SERIES	SIZE	CV
5213	½"-1"	2.0
521*	½"-1"	3.0
5231	1"	7.0
	1¼"	7.6
	1½"	13.0
	2"	14.2

*521 is available in 3/4" press connections.

CALEFFI ADJUSTABLE THREE-WAY THERMOSTATIC MIXING VALVES

Caleffi 521, 5213, and 5231 series three-way mixing valves are used in residential and commercial systems producing domestic hot water or in hydronic and radiant heating systems. Compensating for both temperature and pressure fluctuations of incoming hot and cold water, these valves maintain the desired output temperature of mixed water.

The 521 and 5231 series are certified to ASSE 1017, the 5213 series to ASSE 1070, and all series are certified low lead.

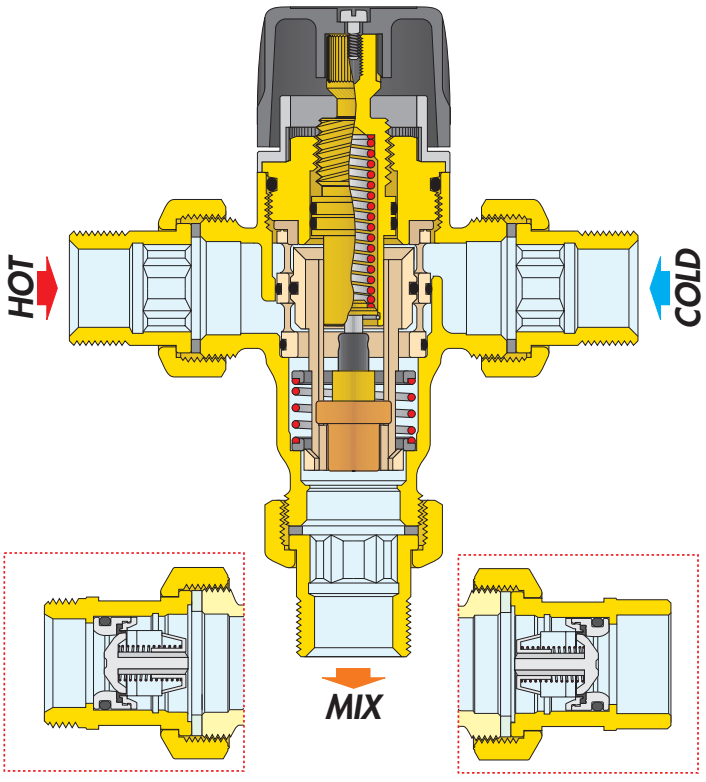
OUTLET TEMPERATURE GAUGE

Caleffi 521 and 5231 series mixing valves are available with optional outlet temperature gauge, or field installed with point of distribution low-lead brass mixed temperature gauge adapter (above) replacing the existing threaded union outlet nut and tailpiece. Removable 2" gauge fits into temperature well.

PERFORMANCE

SERIES	5213	521	5231
MAX. WORKING PRESSURE	140 psi	200 psi	200 psi
SETTING RANGE	85 — 120°F	85 – 150°F	95 – 150°F
STABLE OPERATING MIN. FLOW	0.5 gpm	1.3 gpm	4.4 gpm (1 - 1¼") 8.8 gpm (1½ - 2")

CROSS SECTION

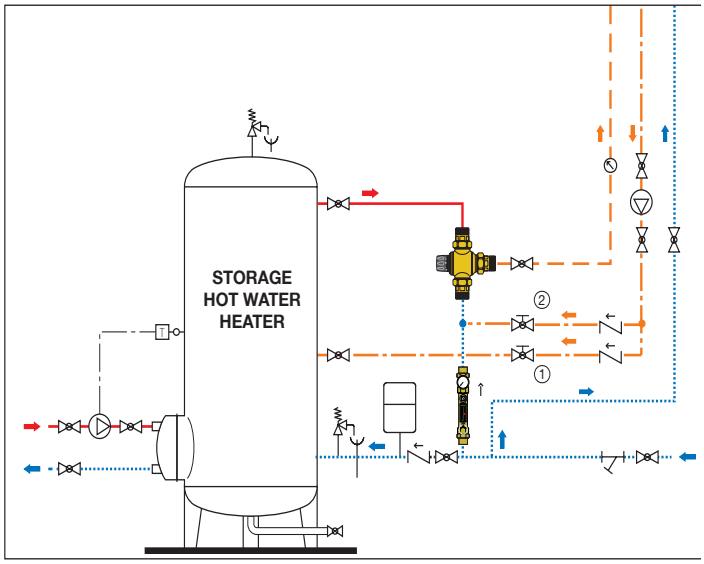


Inlet check valve NPT tailpiece

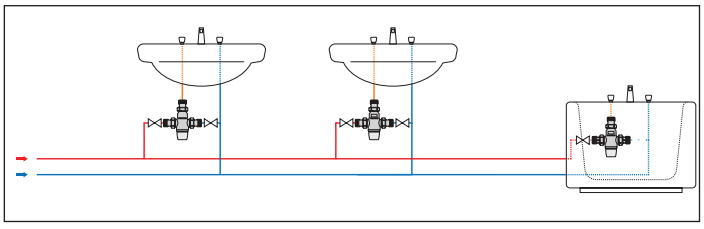
Inlet check valve sweat tailpiece

APPLICATION DIAGRAM

Point of distribution with recirculation



Point of use installation



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REFERENCE DOCUMENTATION:
TECHNICAL BROCHURES 01050, 01092, 01256

CALEFFI Hydronic Solutions

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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