



THERMOSTATIC MIXING VALVES

CALEFFI
Hydronic Solutions



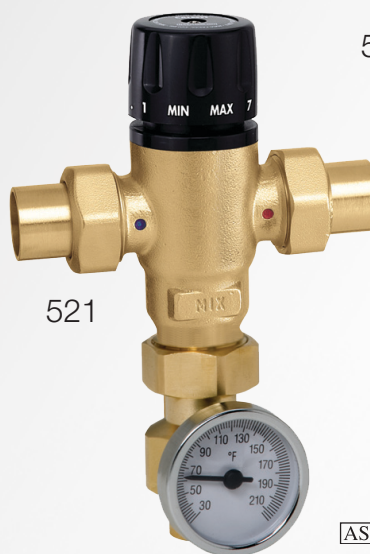
Heating & Cooling

Components for today's modern hydronic systems



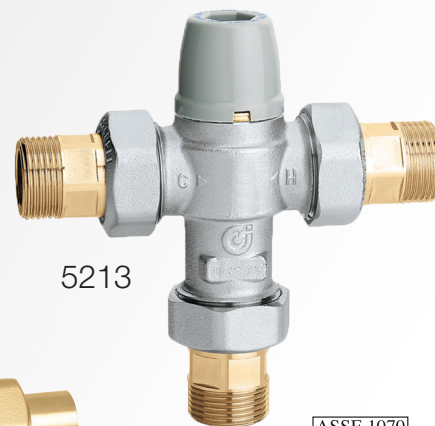
5231

ASSE 1017



521

ASSE 1017



5213

ASSE 1070

Smart
Solutions, Inc.
High Performance Building Products

208-798-4449

LOW-LEAD



C[®] Meets requirements of ANSI/NSF 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.
- 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.
- 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.
- 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.
- Optional outlet temperature gauge speeds up the temperature setting process and provides dedicated proof-of-temperature verification to aid in the commissioning process (521, 5231).
- Check valves in inlet hot and cold ports (standard for 5213 series, optional for 521 and 5231 series).

NPT OR SWEAT UNION CONNECTIONS

SERIES	SIZE	CV
5213	1/2"-1"	2.0
521*	1/2"-1"	3.0
5231	1"	7.0
	1 1/4"	7.6
	1 1/2"	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

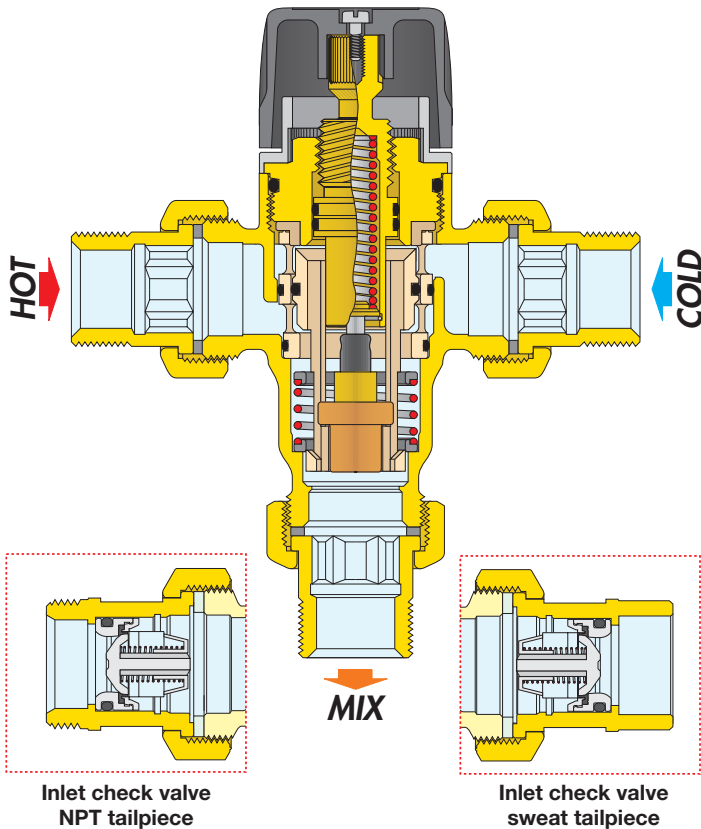


Caleffi 521 and 5231 series mixing valves are available with optional outlet temperature gauge, or field installed with point of distribution low-lead brass mixed temperature gauge adapter (above) replacing the existing threaded union outlet nut and tailpiece. Removable 2" gauge fits into temperature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

PERFORMANCE

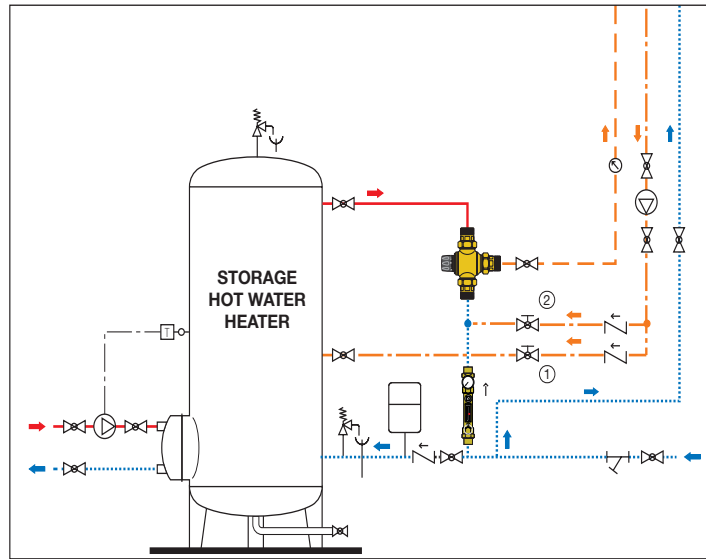
SERIES	5213	521	5231
MAX. WORKING PRESSURE	140 psi	200 psi	200 psi
SETTING RANGE	85 – 120°F	85 – 150°F	95 – 150°F
STABLE OPERATING MIN. FLOW	0.5 gpm	1.3 gpm	4.4 gpm (1 - 1 1/4") 8.8 gpm (1 1/2 - 2")

CROSS SECTION

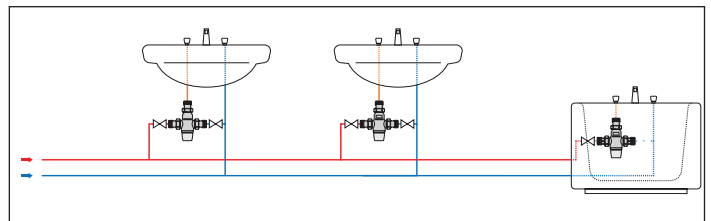


APPLICATION DIAGRAM

Point of distribution with recirculation



Point of use installation



03587-15NA

REFERENCE DOCUMENTATION:
TECHNICAL BROCHURES 01050, 01092, 01256

