

5000 Series Mixing Valve

ASSE 1017 approved the 5000 Series Mixing Valve delivers fail-safe security in a high flow, low headloss valve. With an extended mix temperature range of 85°-150°F, it provides the ultimate performance across multiple mixing and diverting applications.



HYDRONIC COMPONENTS & SYSTEMS

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Submittal Data Information 5000 Series Mixing Valve

Submittal Data # 101-060
Supersedes: 101-060 Dated: 4/15/04

Effective: 3/1/06

Features

Fail-Safe on Hot or Cold Supply Failure
Delivers Stable Mixed Water Temperature
ASSE 1017 Certified
High Flow
Low Headloss
Dual Purpose Mixing or Diverting Valve
Extended Mix Temperature Range of 85°-150°F
Ideal for Domestic Water and Radiant Applications
Tamper-Proof Cap
Available 1/2", 3/4", 1"

Performance

CV*:
1/2" 3.3
3/4" 3.5
1" 3.8

Max. Flow:
1/2" 18 gpm
3/4" 20 gpm
1" 24 gpm

Max. Inlet Temperature: 210°F (100°C)
Max. Inlet Pressure: 200 psi (13.8 bar)
Min. Working Pressure: 1.5 psi (0.1 bar)
Max. Differential Pressure Between Hot & Cold: 5:1

Min. Temperature Differential Between Hot Supply and Outlet: 20°F (6.7°C)
Controlled Outlet Temp.: 85°-150°F (29°-66°C)
Factory Temp. Setting: 130°F
Maintains Constant Outlet Temperature to: ±5°F (±3°C)
* (Flow curves available from factory upon request)

Materials

Body: Cast Gunmetal, Nickel Plated
Internal Components: DZR Brass
Seals: Viton
Spring: Stainless Steel
Piston: Polysulfone Polymer
Fittings: DZR Brass, Copper (1")
Gaskets: EPDM

Approvals

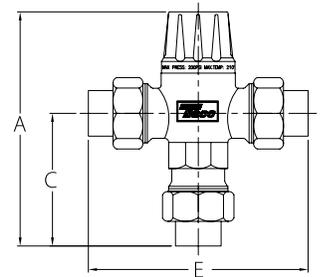
ASSE 1017
BS1415 Part 2
cUPC Listed - CSAB125.3
ISO 9001 Manufacturing Facility

Application

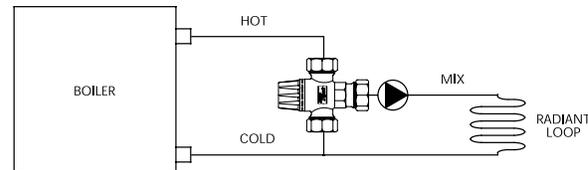
The 5000 Series Mixing Valve is a dual purpose mixing or diverting valve. It is ASSE 1017 approved, providing shut-off reliability on either a hot or cold water supply failure. The high flow and low headloss characteristics make the 5000 Series ideal for domestic water, radiant applications, installations with large variations in flow rate and supply conditions, and installations requiring tightly controlled water temperature. The valve's unique design and advanced thermostatic element ensures a stable mixed water temperature throughout the extended 85°-150°F range. The 5000 Series provides fail-safe security and the ultimate performance in a mixing valve.

5000 Series Mixing Valve Dimensions

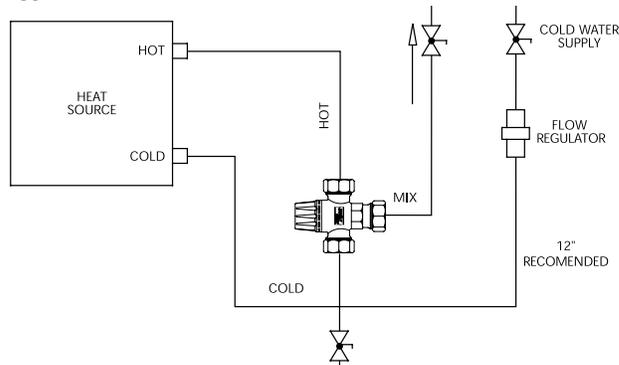
Product Number	Valve Size		A		C		E	
	IN.	MM	IN.	MM	IN.	MM	IN.	MM
5002-C2	1/2"	15mm	5.00"	126.5mm	2.60"	66.0mm	4.45"	113.0mm
5003-C2	3/4"	20mm	5.15"	131.0mm	3.00"	76.0mm	4.80"	122.0mm
5004-C2	1"	25mm	6.25"	159.0mm	4.10"	104.0mm	7.10"	180.0mm



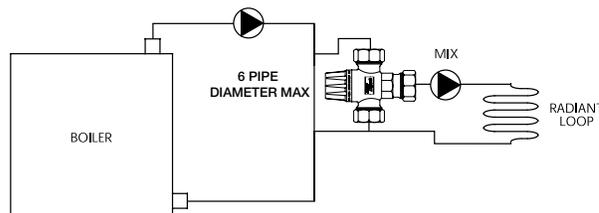
Low Temperature or Radiant Installation



Typical Domestic Water Installation



Primary/Secondary Installation



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