MixCal[™] Adjustable three-way thermostatic mixing valve, Press



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Application

Dimensions

The Caleffi MixCal[™] 521 series three-way thermostatic mixing valve is used in systems producing domestic hot water or in hydronic and radiant heating systems. It maintains the desired output temperature of the mixed water supplied at a constant set value compensating for both temperature and pressure fluctuations of the incoming hot and cold water. The MixCal thermostatic mixing valve is ICC-ES certified to ASSE 1017 and CSA B125.3. It complies with codes IPC, IRC, accordance with the US and Canadian plumbing codes, and standard NSF/ANSI 372, low lead.

Typical Specification

Furnish and install on the plans described herein, a MixCal[™] three-way thermostatic mxing valve as manufactured by Caleffi. Each mixing valve must be designed with a low-lead brass body, a replaceable brass cartridge chemical nickel plated, stainless steel springs, seals in EPDM, and shutter, regulating seats and sliding surfaces in anti-scale plastic, PPO. Each valve must also be designed for ±3°F (±2°C) temperature stability with a tamper proof control knob to lock the temperature at the set value. The valve shall be ASSE 1017 approved for point of distribution installation. Low-lead brass body (<0.25% Lead content) certified by ICC-ES, file 1360. Complies with requirements of NSF/ANSI 372-2016. Each valve shall be Caleffi model 521 or approved equal. (See product instructions for specific installation information.)

Technical Data

Materials

Body:	low-lead brass
Shutter, seats and slide guides:	PPO
Springs:	stainless steel
Seals:	EPDM

Performance

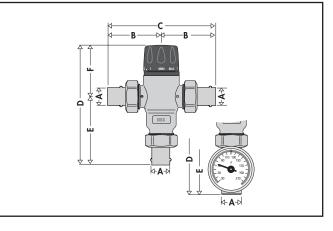
Suitable Fluids:	water, glycol solution			
Max. percentage of glycol:	30%			
Setting range:	85–150°F (30–65°C)			
Tolerance:	±3°F (±2°C)			
Max. working pressure:	200 psi (14 bar)			
Max. operating differential pressure:	75 psi (5 bar)			
Max. hot water inlet temperature:	200°F (93°C)			
Max. inlet pressure ratio (H/C or C/H) for optimum performance: 2:1				
Min. temperature differential between hot wate	er inlet and mixed water			
outlet for optimal performance:	27°F (15°C)			
Min. flow to ensure optimal performance:	1.3 gpm (5 L/min)			
Certifications:				

1. ASSE 1017/CSA B125.3, certified by ICC-ES, file PMG-1357.

 Complies with NSF/ANSI 372, Drinking Water System Components-Lead Content Reduction of Lead in Drinking Water Act, California Health and Safety Code 116875 S.3874, Reduction of Lead in Drinking Water Act, as certifed by ICC-ES, file PMG-1360.

Connections: Press:

3⁄4 "



Code	Α	В	С	D*	Е	F	Wt. (lb)
521 406A	1⁄2"	2%16"	51/8"	6"	3¾"	25/8"	2.4
521 416A**	1⁄2"	2 ⁹ /16"	51/8"	8¼"	51/8"	25/8"	2.9
521 506A	3⁄4"	2 ¹³ /16"	5%"	81⁄2"	51/8"	25/8"	2.4
521506AC	3⁄4"	4 ³ ⁄16"	8¾"	6¼"	35/8"	25/8"	2.5
521 516A**	3⁄4"	2 ¹³ /16"	5%"	81⁄2"	51/8"	25/8"	2.9
521516AC**	3⁄4"	4 ³ / ₁₆ "	8¾"	81⁄2"	51/8"	25/8"	3.0
521 606A	1"	2 ¹⁵ / ₁₆ "	51/8"	6 ⁵ ⁄16"	311/16"	25/8"	2.6
521 616A**	1"	2 ¹⁵ / ₁₆ "	51/8"	85/8"	6"	25⁄8"	3.1

Lay length:

size 1/2 & 3/4 inch: 3 5/8" size 1 inch: 4 1/8"

We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice. Contractors should request production drawings if prefabricating the system				
Job name	Size			
Job location	Quantity			
Engineer	Approval			
Mechanical contractor	Service			
Contractor's P.O. No.	Tag No			
Representative	Notes			

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