TubMixer[™] **High Flow Scald-Protection Thermostatic Mixing Valves** 5213 series

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Application

The Caleffi 5213 TubMixer™ is a temperature limiting thermostatic mixing valve designed to deliver safe, consistent, and controlled water temperatures. Engineered to comply with product standards, the valve is limited to outputting tempered water at 120°F. It features check valves on the inlets to prevent cross-connections. With an adjustable temperature setting and a durable temperature cartridge, it supports a wide flow range from 0.5 to 9 GPM for single to multi fixture applications. In the event of a hot or cold water supply failure, the valve automatically stops water flow from the mixed outlet. Its superior performance under varying water temperatures and pressures makes the TubMixer ideal for applications where precise temperature control and scale procession solutions where precise temperature control and scale procession and scale proce are critical, such as in hospitals, schools, and nursing homes. The valve is complete with check valve at both hot and cold inlets.

Typical Specification

Furnish and install on the plans described herein, a three-way thermostatic mixing valve as manufactured by Caleffi. Each mixing valve must be designed with a low-lead brass body and regulating spindle, PPO shutter, seats and slide guides with integral inlet port check valves, stainless steel springs and seals in peroxide-cured EPDM. 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. Complies with ASSE 1070/ASME A112.1070/CSA B125.70, CSA B125.3, UPC, IPC, IRC and NPC compliance for use in accordance with U.S. and Canadian plumbing codes. Additionally, it is compliant with NSF/ANSI/CAN 372, US and Canadian Low-Lead and Lead-Free materials contents laws for drinking water system components. The product is certified and listed by ICC-ES. Each valve shall be Caleffi model 5213 or approved equal. (See product instructions for specific installation information.)

ASSE 1070/ASME A112.1070/CSA B125.70 LOW LEAD NSF/ANSI/CAN 372

Certifications

1. ASSE 1070/ASME A112.1070/CSA B125.70, CSA B125.3, UPC, IPC, IRC and NPC compliance for use in accordance with U.S. and Canadian plumbing codes. Certified and listed by ICC-ES, PMG File 1358

2. NSF/ANSI/CAN 372, Drinking Water Systems Components-Lead Content Reduction of Lead in Drinking Water, California Health and Safety Code 116875 S.3874, Reduction of Lead in Drinking Water Act, certified by ICC-ES, file PMG-1360.

3. PEX crimp fittings certified to ASTM F 1807.

4. PEX expansion fittings certified to ASTM F 1960.

Dimensions

Technical specifications

Materials

Body:	low-lead* cast brass
Regulating spindle:	low-lead* cast brass
nternal shutter:	PPO
Sealing elements:	peroxide-cured EPDM
Cover:	ABS

Meets the "lead free" requirement of Section 1417 of the Safe Drinking Water Act (SDWA This product has a weighted average lead content of less than 0.25% for its wetted surfaces contacted with consumable water.

Suitable fluids:		water
Maximum working pressure (static):	150 psi	(10 bar)
Maximum working pressure (dynamic):	70 psi	(4.8 bar)
Minimum working pressure (dynamic):	1.5 psi	(0.1 bar)
Temperature adjustment range:	85 °F to 120 °F (30 °C t	io 50 °C)
Temperature set:	must be commissione	d on site
to ach	ieve desired temperatur	e setting
Temperature control accuracy:	±3 °F	= (±2 °C)
Minimum cold inlet temperature:	40	°F (5 °C)
Maximum cold inlet temperature:	85 °F	= (29 °C)
Minimum hot inlet temperature:	120 °I	F (50 °C)
Maximum hot inlet temperature:	185 °I	F (85 °C)
Maximum unbalanced dynamic supply (hot/cold or cold/hot):	6:1

Minimum temperature differential between hot water inlet and mixed water outlet to ensure thermal shutoff operation: 18 °F (10 °C) Minimum temperature differential between mixed water outlet and cold water inlet to ensure stable operation: 9 °F (5 °C) Minimum flow rate for stable operation: 0.5 gpm (2 l/min) Maximum flow rate for stable operation: 9 gpm (34 l/min) Flow rating: Cv: 2.0 (Kv:1.7 m³/hr) 2" diameter Outlet temperature gauge (optional) Dual-scale 30 - 210 °F and 0 - 100 °C Accuracy: 1% full-scale

Connections

Main connections:

1/2", 3/4", 1" union PEX crimp, PEX expansion, NPT male, sweat and press 3/8" union compression



Dimensions

Code (1)	Α	В	С	D	E	LL(3)	Wt (lb)
5213 42A	1⁄2" MNPT	2 ¾"	5 ⁹ /16"	5 ¹ /16"	3 ¹ /8"		
521342A 002				7 ³ /16 "	5 ⁵ /16"		
5213 52A	- 34" MNPT	2 3⁄4"	5 ½"	4 ¹³ /16 "	2 ¹⁵ /16"		
5213 52A 002				7"	5 ¹ /16"		
5213 62A	1" MNPT	2 ⁷ /8"	5 ¾"	5 ³ /16 "	3 ¼"		
521362A 002				7 ⁵ /16 "	5 ³ /8 "		
5213 47A	1/4" DEV orimo	0.15		5 ⁷ /16"	3 1⁄2"		
5213 47A 002	72 PEA Chimp	2 10/16	57/8	7 ⁹ /16"	5 ¹¹ /16"		
5213 57A	34" DEV orimo	0.15/1.0		5 ⁷ /16"	3 ½"		1
5213 57A 002		2 10/10	5.78	7 ⁹ /16"	5 ¹¹ /16"		
5213 67A	1" DEV orimo	0"	6"	5 ½"	3 ⁵ /8"		
521367A 002		5	0	7 ¹¹ /16"	5 ¾"		
5213 48A	16" DEV ovo	0 15/1e"	5 7/0"	5 ⁷ /16"	3 ⁹ /16"		
5213 48A 002	72 PEA exp	2 10/16	5.78	7 ⁵ /8"	5 ¹¹ /16"		2.0
5213 58A	3/4" DEV ovo	2.3/10"	6 ³ /8"	5 ¹¹ /16"	3 ¾"		
5213 58A 002	74 FLA exp	5 % 16		7 ¹³ /16"	5 ¹⁵ /16"		
5213 68A	1" DEV ovp	3 ½"	6 ¹⁵ /16"	6"	4 ¹ /16"		
521368A 002	I I EX exp			8 ¹ /8"	6 ¼"		-
5213 49A	1/2" sweat	2 ⁵ /8"	5 ⁵ /16"	4 1⁄2"	2 ⁹ /16"	4 ⁵ /16"	
5213 49A 002	72 SWEat			6"	4 ¹ /8"		
5213 59A	34" sweat	2 ¹³ /16"	5 ⁹ /16"	4 ¾"	2 ¹³ /16"		
5213 59A 002	74 3WEat			6 ¹ /8"	4 ³ /16"		
5213 69A	1" owoot	3 ¹ /16"	6 ¹ /16"	5 ⁵ /16"	3 ³ /8"	4 ¼"	
521369A 002	i swear			6 ⁷ /16"	4 1⁄2"		
5213 46A	1/ "	3 ³ /16"	6 ⁵ /16"	4 ¹³ /16"	2 ¹⁵ /16"	4 ⁵ /8"	
5213 46A 002	^y 2 press			7"	5 ¹ /16"		
5213 56A	2/11.000000	3 1⁄4"	6 ½"	5 ³ /16"	3 ¼"	4 ⁹ /16"	1
5213 56A 002	%" press			7 ⁵ /16"	5 ⁷ /16"		
5213 66A	- 1" press	4 ¹ /8"	8 1⁄4"	5 ¾"	3 ¹³ /16"	6 ⁷ /16"	1
521366A 002				7 ¹⁵ /16"	6"		
5213 33A (2)	3/°" comp	0.1/ "	5 ⁵ /16"	5 ¹ /16"	3 ¹ /8"		
5213 33A 002		∠ 72		7 ³ /16"	5 1⁄4"		

Suffix 002 means the assembly includes a temperature gauge and adapter.
Includes mounting bracket.
Lay length: Hot to Cold Inlets.

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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