Thermostatic mixing valves, low-lead, high-flow



5231 series

Submittal Data 03010 NA

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Application

The thermostatic mixing valve is used in systems producing domestic hot water or in radiant heating systems. Its function is to maintain the temperature of the mixed water supplied to the user at a constant set value when there are variations in the supply pressure and temperature of the incoming hot and cold water or in the flow rate. The 5231 series thermostatic mixing valves are ASSE 1017 approved for point of distribution and are designed specifically for systems requiring high flow rates and precise, stable temperature control.

Typical Specification

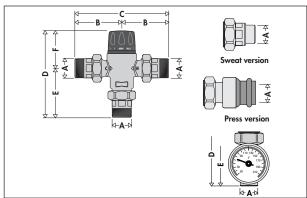
Furnish and install on the plans and described herein, a Caleffi 5231 series thermostatic mixing valve as manufactured by Caleffi. Each mixing valve must be designed with 1", 1-1/4", 1-1/2", or 2" union sweat, press or NPT male threaded end connections. The design must include a DZR low-lead brass body and connections (<0.25% Lead content) certified by IAPMO R&T, PPSG40 shutter, stainless steel springs, and peroxide-cured EPDM seals. Each valve must be designed for 200 psi (14 bar) maximum working pressure, 75 psi (5 bar) maximum operating differential pressure, 95 to 150°F (35 to 66°C) mixed temperature setting range, \pm 3°F (\pm 2°C) temperature stability, 10 grains maximum water hardness and provided with tamper-proof temperature locking and optional mixed outlet temperature gauge for 1-1/4" union sweat model, 30 to 210°F scale, 2" diameter. For other sizes and connections, temperature gauge adapter and fittings available separately for field installation. Each mixing valve shall be a Caleffi model 5231 or approved equal.

(See product instructions for specific installation information.)

Technical specification

	Materials:	- Body: - Shutter: - Springs: - Seals:	DZR low-lead brass PPSG40 Stainless steel peroxide-cured EPDM	
	Temperatur Max workin Max operat Hot water in Cold water Mixed temp Maximum in	percentage of glycol:): 2:1	
		water outlet for optimum perfo vater hardness:	rmance: 20°F (11°C) 10 grains	
	Certification 1. ASSE 1017, ES for use in a file PMG-1357 2. Complies w Content Reduc 116875S.3874	IS: (CSA B125.3, UPC, IRC, NPC and IPC, accordance with the U.S. and Canadian J with NSF/ANSI 372 –2016, Drinking Water tion of Lead in Drinking Water Act, Calif b, Reduction of Lead in Drinking Water Act biles Law, Maryland's Lead Free Law HE	Low Lead Laws and listed by ICC- plumbing codes. certified by ICC-ES, er System Components-Lead ornia Health and Safety Code ct, Vermont Act 193, The Lead in	
,	We reserve the rig	ht to change our products and their relevant t	echnical data, contained in this publication,	at
J	ob name			





Code	Α	В	С	D
523160A	1" NPT	4"	8"	7 5/8"
5231 66A	1" press	4 3/8"	8 3/4"	8"
5231 68A	1" SWT	3 5/16"	6 5/8"	7"
523170A	1 1/4" NPT	4 1/8"	8 1/4"	7 3/4"
5231 76A	1 1/4" press	5 3/8"	8 3/4"	9"
5231 77A	1 1/4" SWT	3 3/8"	6 3/4"	7 5/8"
523178A	1 1/4" SWT	3 3/8"	6 3/4"	7"
523180A	1 1/2" NPT	5 1/8"	10 1/4"	9 3/16"
5231 86A	1 1/2" press	5 5/8"	11 1/4"	9 11/16"
5231 88A	1 1/2" SWT	4 1/16"	8 1/8"	8 1/8"
523190A	2" NPT	5 1/8"	10 1/4"	9 1/2"
5231 96A	2" press	7 1/4"	14 1/2"	11 5/8"
5231 98A	2" SWT	4 5/16"	8 5/8"	8 5/8"

Code	Е	F	Wt (lb)
523160A	4 3/16"	3 3/8"	7.0
5231 66A	4 9/16"	3 3/8"	7.0
5231 68A	3 1/2"	3 3/8"	7.0
523170A	4 5/16"	3 3/8"	7.0
5231 76A	5 9/16"	3 3/8"	7.0
5231 77A	4 1/8"	3 3/8"	9.0
5231 78A	3 1/2"	3 3/8"	7.0
523180A	5 7/16"	3 3/4"	17
5231 86A	6"	3 3/4"	17
5231 88A	4 3/8"	3 3/4"	17
523190A	5 3/4"	3 3/4"	18
5231 96A	7 7/8"	3 3/4"	18
5231 98A	4 7/8"	3 3/4"	18

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Job name	 Size	
Job location	 Quantity	
	 Approval	
Mechanical contractor	 Service	
Contractor's P.O. No.	 Tag No.	
Representative	 Notes	