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.)

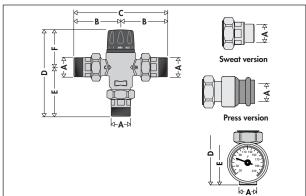
Technical specification

Materials: - Body: - Shutter: - Springs: - Seals:	DZR low-lead brass PPSG40 Stainless steel peroxide-cured EPDM
Suitable fluds: Maximum percentage of glycol: Temperature stability: Max working pressure (static): Max operating differential pressure Hot water inlet temperature range: Cold water inlet temperature range Mixed temperature adjustment sett Maximum inlet pressure ratio (H/C	$\begin{array}{c} 120 - 195^{\circ}\text{F} (49 - 91^{\circ}\text{C}) \\ \vdots & 39 - 80^{\circ}\text{F} (3.9 - 26.6^{\circ}\text{C}) \\ \text{ing range: } 95 - 150^{\circ}\text{F} (35 - 66^{\circ}\text{C}) \\ \text{or C/H}: & 2:1 \end{array}$
Minimum temperature difference be and mixed water outlet for optimur Maximum water hardness: Certifications: 1. ASSE 1017/CSA B125.3, certifie 2. NSF/ANSI 372-2011, Drinking Content Reduction of Lead in Drin	n performance: 20°F (11°C) 10 grains ed by ICC-ES, file PMG-1357. Water System Components-Lead

and Safety Code 116875 S.3874, Reduction of Lead in Drinking

Water Act, certifed by ICC-ES, file PMG-1360.

Dimensions



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"
5231 78A	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	E	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
523198A	4 7/8"	3 3/4"	18

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

ES

ASSE 1017

Job name	Siz	e
Job location	Qu	antity
Engineer	Ар	proval
Mechanical contracto	Se	rvice
Contractor's P.O. No.	Τα	y No
Representative	No	tes

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