

TMV MODEL 215

THERMOSTATIC MIXING VALVE FOR SINGLE POINT OF USE

Armstrong’s thermostatic mixing valves are designed specifically for use in non-return “dead leg” applications.

The range of products provides accurate water temperature control for individual point of use and groups of fixtures in applications with diverse flow requirements.



Thermostatic Mixing Valve Model 215

TMV Model 215 Performance Chart: Pressure Drop (in PSIG) to Flow Rate (in GPM)												
Model 215	Pressure Drop (PSIG)										Minimum Flow Rate	C _v
	5	10	15	20	25	30	35	40	45	50		
GPM	4	5	7	8	9	9	10	11	11	12	0.5 GPM	1.7

TMV Model 215 Performance Chart: Pressure Drop (in BARG) to Flow Rate (in LPM)												
Model 215	Pressure Drop (BARG)										Minimum Flow Rate	K _v
	0.3	0.7	1.0	1.4	1.7	2.1	2.4	2.8	3.1	3.4		
LPM	15.1	18.9	26.5	30.3	34.1	34.1	37.9	41.6	41.6	45.4	1.9 LPM	1.46

Designs, materials, weights, and performance ratings are approximate and subject to change without notice. Visit armstronginternational.com for the most up-to-date information.



TMV MODEL 215

TECHNICAL SPECIFICATIONS

General		
Materials	Chrome-plated brass / stainless alloy / polymer construction	
Safety	Thermal shutdown upon inlet supply failure	
Shipping Weight	10 lbs (4.5 kg)	
Connections		
Inlet and Outlet Connections	1/2" NPT Connections	
Pressures		
Inlet Supply Pressures	Maximum Inlet Supply Pressure: 150 psig (10 barg)	Minimum Inlet Supply Pressure: 10 psig (0.7 barg)
Temperatures		
Hot Water Supply Temperature	Maximum Inlet Hot Water Temperature: 180°F (82°C)	
Cold Water Supply Temperature	Minimum Inlet Cold Water Temperature: 39°F (4°C)	Minimum Inlet Cold Water Range: 39°F - 80°F (4°C - 27°C)
Optimum Inlet/Outlet Differential	21°F (12°C)	
Optimum Thermostatic Control Range	86°F - 122°F (30°C - 50°C)	
Flow Rate		
Maximum Flow Rate at 45 psi	11 GPM (42 LPM)	
Maximum Flow Rate at 9' / second	5.6 GPM (21 LPM)	
Minimum Flow Rate	0.5 GPM (2 LPM)	
Configurable Specifications		
Outlet Temperature Control	+ / - 2°F (1°C)	
Temperature Limits	Adjustable maximum temperature limit stop	
Temperature Lock	Adjustable single-temperature locking option	
Standards and Approvals		
Lead Free	Compliant	
ASSE 1069	Certified	
ASSE 1070	Certified	
CSA B125	Certified	

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TMV MODEL 215

WRITTEN SPECIFICATIONS

Category: Water Temperature Control - Single Point of Use

Type: Thermostatic Mixing Valve

Model: TMV215

Part 1 - GENERAL

1.1 Overview

- A. The Thermostatic Mixing Valve (TMV) shall be of DZR brass / stainless steel / polymer construction. TMV shall have 1/2" NPT inlets and outlet with integral inlet spring-loaded check valves and strainers. TMV shall be equipped with a maximum temperature limit and single-temperature locking feature.

1.2 Materials of Construction

- A. Materials of construction and items included shall be:
 - 1. DZR brass / stainless steel / polymer
 - 2. 1/2" NPT inlets and outlet
 - 3. Integral inlet check valves and strainers
 - 4. Temperature control trim set
 - 5. Tamper-proof locking shroud

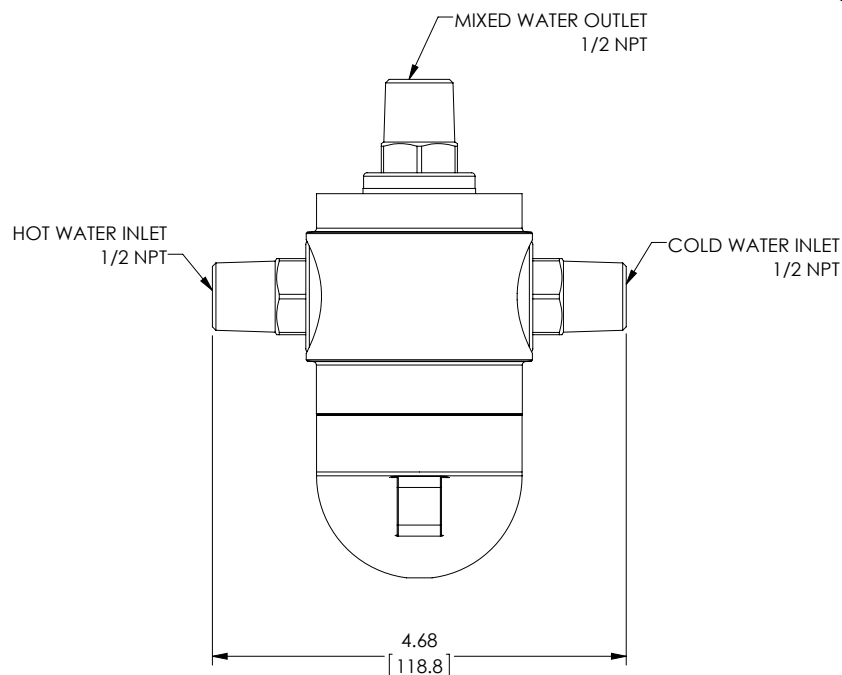
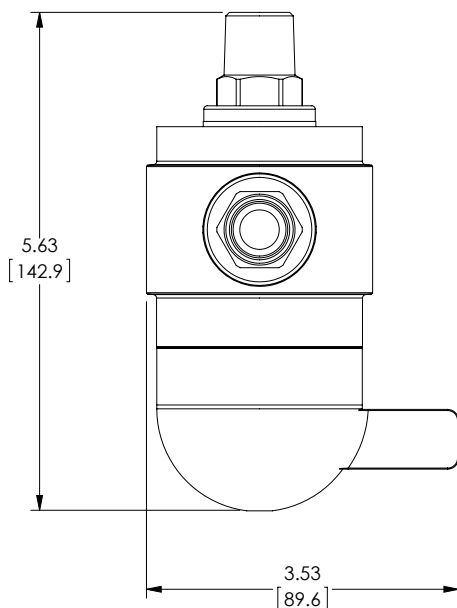
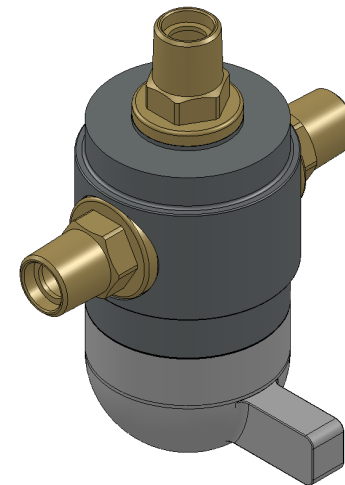
1.3 Performance

- A. TMV shall be so designed that all of the internal operating components are enclosed in a one-piece "sealed for life" replaceable cartridge for ease of service. TMV shall be capable of controlling mixed water temperatures within + / - 2°F (1°C) at flow rates between 0.5 GPM - 11 GPM (1.9 LPM - 42 LPM). TMV shall be capable of delivering mixed water temperature that is within 5°F (2°C) of either inlet supply temperature.
- B. The Thermostatic Mixing Valve shall include all of the following capabilities:
 - 1. Maintains mixed water temperatures + / - 2°F (1°C) at flow rates between 0.5 GPM - 11 GPM (1.9 LPM - 42 LPM)
 - 2. Delivers mixed water temperatures within 5°F (2°C) of either inlet supply temperature
 - 3. Operational pressure of 10 - 150 psig (0.7 - 10 barg)
 - 4. Thermal shutdown mode upon inlet supply failure

APPROVAL

BY: _____ DATE: _____

- APPROVED, PROCEED WITH FABRICATION
- APPROVED AS NOTED, PROCEED WITH FABRICATION IN ACCORDANCE WITH COMMENTS
- DISAPPROVED, DO NOT FABRICATE



NOTE:

1. REFERENCE ARMSTRONG PART NO. D58506

<p>DO NOT SCALE DRAWING TOLERANCES UNLESS OTHERWISE SPECIFIED DIMENSIONING ENGLISH (mm)</p>			<p>ARMSTRONG INTERNATIONAL Copyright © 2010 ARMSTRONG INTERNATIONAL, INC. 215 M/V W/ WHITE TRIM SET LF</p>																				
<p>FRACTIONAL ± 1/64 ANGULAR: ± 2</p> <table border="1"> <thead> <tr> <th>DECIMAL</th> <th>IN.</th> <th>MM</th> </tr> </thead> <tbody> <tr> <td>.XXXX ± .0005</td> <td>----</td> <td>----</td> </tr> <tr> <td>.XXX ± .005</td> <td>.010</td> <td>----</td> </tr> <tr> <td>.XX ± .015</td> <td>.10</td> <td>----</td> </tr> <tr> <td>.X</td> <td>.3</td> <td>----</td> </tr> </tbody> </table>			DECIMAL	IN.	MM	.XXXX ± .0005	----	----	.XXX ± .005	.010	----	.XX ± .015	.10	----	.X	.3	----	<table border="1"> <thead> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DILLIBABU</td> <td>12/20/2013</td> </tr> </tbody> </table>	NAME	DATE	DILLIBABU	12/20/2013	<p>MATERIAL</p>
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<p>RELEASED</p>		<p>CN45075</p>	<p>REV B</p>	<p>DWG. SALES</p>																			