

# ALTERNATE TEMPERATURE THERMOSTATIC MIXING VALVES

*ECO-MIX*™

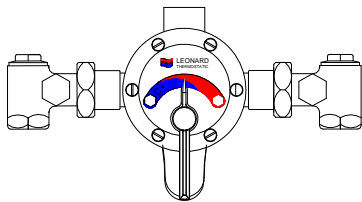
Submittal S-1214-LF  
November, 2018

## TYPE TM-AT

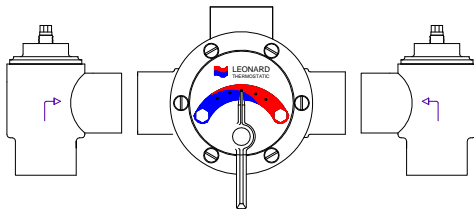
- \_\_\_ TM-50-AT-LF
- \_\_\_ TM-80-AT-LF
- \_\_\_ TM-150-AT-LF
- \_\_\_ TM-200-SW-AT-LF

**Note:** The operating outlet temperature range of these valves is outside the normal operating range of a Domestic Hot Water Distribution Valve and therefore they are more suitable for Process Temperature Control applications. Please see Leonard's complete line of ASSE 1017 Certified Valves for Domestic Hot Water Applications.

### TM-50-150-AT-LF



### TM-200-SW-AT-LF



**NOTE: TM-200 SWEAT INLETS AND OUTLET  
(CHECKS SHIPPED LOOSE)**



**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.Ca.gov](http://www.P65Warnings.Ca.gov)

Valve assembly meets Low-Lead requirements of wetted surface area containing less than 0.25% lead by weight. All other fittings and components, the sum total of which comprise the wetted surface of this product contains less than one quarter of one percent of lead by weight.

**CAUTION!** All thermostatic water mixing valves have limitations. They will NOT provide the desired accuracy outside of their flow capacity range. Consult the Flow Capacity Chart and DO NOT OVERSIZE. Minimum flow must be no less than as indicated.

### \_\_\_ TM-50-AT-LF

- Thermostatic water mixing valve
- Dura-trol® solid bimetal thermostat directly linked to valve porting to control the intake of hot and cold water and compensate for supply temperature or pressure fluctuations. Dura-trol® is highly responsive and cannot be damaged by extremes in temperature.
- ¾" inlets, and 1" outlet
- 8 GPM (30 l/m) minimum flow capacity, see flow capacity chart.
- Internal parts of bronze, brass, and stainless steel
- Integral wall support, cast lever handle, combination checkstops.
- Color-coded dial, HOT-COLD with directional indicators
- Maximum operating pressure 125 PSI (860 KPA)
- Adjustable high temperature limit stop set by installer
- Outlet temperature full range from 42°F to 200°F depending upon incoming Hot and Cold water temperatures

### \_\_\_ TM-80-AT-LF

- 1" inlets and 1 ¼" outlet
- 13 GPM (49 l/m) minimum flow capacity

### \_\_\_ TM-150-AT-LF

- 1 ¼" inlets and 1 ½" outlet
- 18 GPM (68 l/m) minimum flow capacity

### \_\_\_ TM-200-SW-AT-LF

- 2" sweat inlets and sweat outlet, inlet checks shipped loose
- 30 GPM (114 l/m) minimum flow capacity

**Note: No CP option**

### OPTIONS

- \_\_\_ SUFFIX LWS - Less Wall support
- \_\_\_ SUFFIX TC - Test connection
- \_\_\_ SUFFIX CP- Chrome plated, Except for TM-200SW-AT-LF

**NOTE:** Valve is not to be used for domestic hot water distribution. Please see Leonard Valves complete line of ASSE 1017 certified mixing valves for Domestic hot water.

Engineer's Approval

Job # \_\_\_\_\_

Arch/Eng. \_\_\_\_\_

Contractor \_\_\_\_\_

**LEONARD**  
WATER TEMPERATURE CONTROLS

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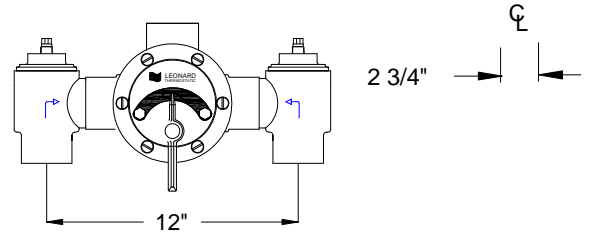
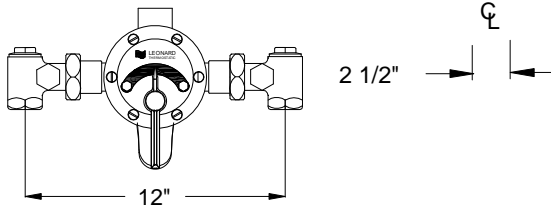
Email: [info@leonardvalve.com](mailto:info@leonardvalve.com)

Web Site: <http://www.leonardvalve.com>

# TM-50-AT-LF thru 150-AT-LF

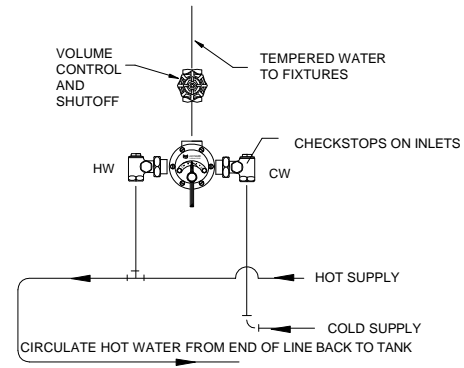
# TM-200-SW-AT-LF

**NOTE: TM-200 SWEAT INLETS AND OUTLET  
(CHECKS SHIPPED LOOSE)**



**Note: The bottom port has been removed and is no longer available. If you are replacing an old valve that has the recirculation piped into the bottom port you will need to re-pipe the return. Please see Leonard's Piping Method #5.**

## METHOD #1



(THIS PIPING IS NOT TO BE USED FOR AN ENTIRE BUILDING!)

MODEL	IN	OUT	MINIMUM FLOW (GPM) (l/min)	SYSTEM PRESSURE DROP (PSIG)										PSI
				5	10	15	20	25	30	35	40	45	50	
				.3	.7	.97	1.4	1.7	2.1	2.4	2.8	3.1	3.4	BAR
TM-50-AT-LF	3/4"	1"	8.0 (30)	19 72	29 109	38 143	45 170	51 193	56 212	62 235	67 254	71 269	74 280	GPM l/min
TM-80-AT-LF	1"	1 1/4"	13.0 (49)	22 83	34 129	42 160	50 189	56 212	62 235	68 257	73 276	78 295	80 302	GPM l/min
TM-150-AT-LF	1 1/4"	1 1/2"	18.0 (68)	53 200	72 273	88 333	103 382	117 443	133 503	147 556	161 609	175 662	177 670	GPM l/min
TM-200-SW-AT-LF	2"	2"	30 (114)	90 341	120 454	140 530	155 587	170 644	180 681	190 719	195 738	200 757	210 795	GPM l/min

Note: Leonard Valve Company reserves the right of product, or design modifications without notice or obligation.



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