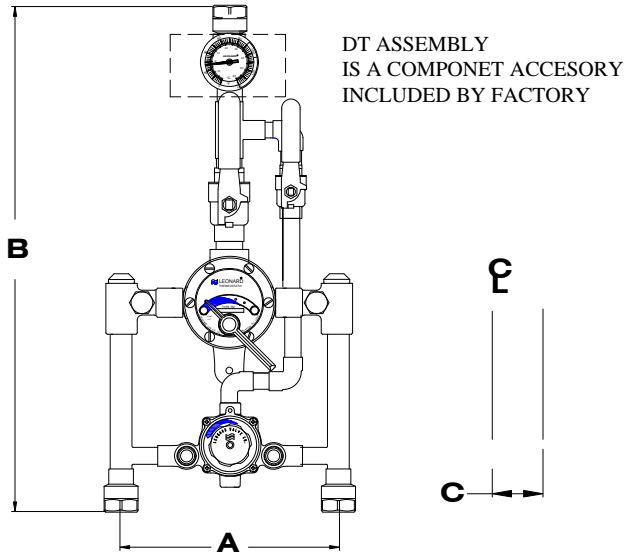


# NEXT GENERATION HIGH LOW SYSTEM

## ECO-MIX™

Submittal Data Sheet S-1233E-LF  
August, 2018

### TM-820B-LF-DT-\_\_\_\_\_



- Large Type TM Thermostatic water mixing valve, adjustable high temperature limit stop\*, inlet checkstops, wall support, outlet ball valve
- Small Type TM Thermostatic water mixing valve, adjustable high temperature limit stop\*, inlet checkstops, outlet ball valve
- 1" inlets, 1 1/4" outlet (25mm X 32mm)
- 1 GPM (3.7 l/min) minimum flow capacity
- Maximum operating pressure: 125 PSI (860 KPA)
- Color-coded dial thermometer (0 to 140°F, -10 to 60°C)
- Inlet manifold piping
- Locking temperature regulators
- Factory assembled and tested

**This product is certified to meet Low Lead requirements of wetted surface area containing less than 0.25% lead by weight. All other component accessories, the sum total of which comprise the wetted surface of this product, contain less than one quarter of one percent lead by weight.**

**OPTIONS:**

- \_\_\_ SUFFIX CP – Chrome plated (Material finish may vary)
- \_\_\_ SUFFIX IT – Inlet Thermometers (shipped loose)
- \_\_\_ SUFFIX TC – Test connection (shipped loose)
- \_\_\_ SUFFIX HT – High temperature thermometer (20 to 240°F, -6 to 115°C)

**A=10 1/2" +/- 1/2" B=23 1/2" C=2 5/8"**

Valve assembly is ASSE 1017 Certified



Valve assembly is CSA Certified



MINIMUM FLOW (GPM) (l/min)	SYSTEM PRESSURE DROP (PSIG)										PSI BAR
	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	
1.0 (3.7)	26 98	40 151	48 182	58 220	63 238	68 257	74 280	79 299	84 318	89 337	GPM l/min

**+NOTE:** The valve will maintain temperature with 0.5GPM flow from the domestic hot water loop when properly installed near the hot water source with a continuously operating recirculation pump.

NOTE: Flowrates will vary depending on existing field conditions. Leonard Valve Company always recommends using CASPAK® sizing software for proper valve sizing and model number applications.

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

**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.

**\*NOTE:** A limit stop, set for 120°F (49°C), is simply a mechanical setting to prevent excessive handle rotation. If incoming water is hotter than 150°F (65.5°C), the temperature of the factory test, the valve when turned to full HOT may deliver water in excess of 120°F and the limit stop MUST BE RESET BY THE INSTALLER

**Engineer's Approval**

Job # \_\_\_\_\_  
Arch/Eng. \_\_\_\_\_  
Contractor \_\_\_\_\_

Note: The models shown represent Leonard Products which are believed to be equivalent in type and function to items specified. Leonard Valve Company is not responsible for errors or omissions due to differences in interpretations of information provided.

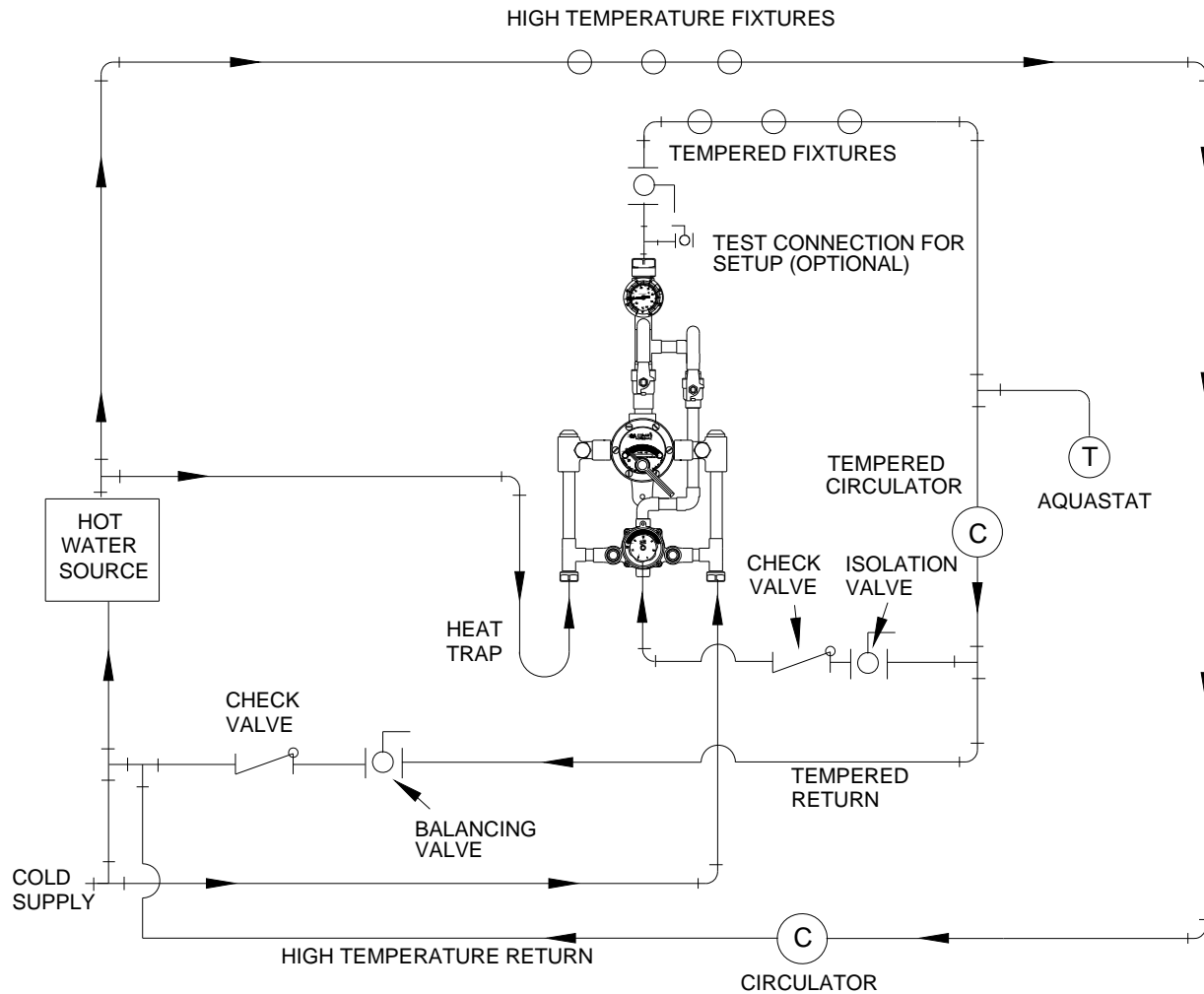


**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.Ca.gov](http://www.P65Warnings.Ca.gov)

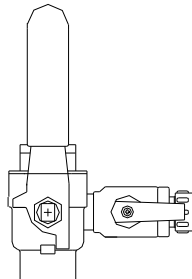


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**PIPING METHOD #2**, only for systems circulating 8 GPM or less. See Method #5 for circulated flow rates above 8 GPM.



**(OPTIONAL) TEST CONNECTION**



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