TM-820B-LF-DT-RF-R34

Leonard Bi-Metal Dual High Low Valve Recirculation Assembly Specification

1. TM-820B-LF-DT Bi-Metal Dual High Low Valve for domestic hot water applications
    - **A.** Mixing Valve shall comply with National Low Lead Laws @< .25% Lead
    - **B.** Mixing Valve shall be 1017 certified
    - **C.** DURA-trol® solid bimetal thermostat Directly linked to valve porting to control the intake of hot and cold water and compensate for supply temperature and pressure fluctuations.
    - **D.** TM Series valves are not dependent upon a circulating pump to achieve minimum flow performance
    - **E.** The valve will maintain temperature with 0.5gpm flow from the domestic hot water loop when properly installed near the hot water source with continuously operating recirculation pump.
    - **F.** TM-820B-LF-DT-RF-R34 shall:
        1. Have 1" inlet and 1 ¼" outlet connections
        2. Flow 1-89 GPM (3.8 – 337 l/min)
        3. Have temperature range of 60-180 degrees Fahrenheit
        4. Have integral stop/check valves
        5. Integral wall support for easy mounting
        6. Have locking temperature regulator handle to prevent accidental movement
        7. Color coded dial thermometer
        8. Be complete with inlet manifold piping
        9. Have outlet ball valves on each valve as part of the assembly
    - G. TM-820B-LF-DT-RF-R34 shall be strut mounted and include ¾" check valves, full port ball valves on recirculation loop tie-in and a 1" check valve and full port ball valve on the cold-water Inlet and 1" full port ball valve provided on hot water inlet, and a 1 ¼" full port ball valve provided on the outlet of mixing valve.
    - **H.** Options
        1. Inlet Thermometers
            - **A.** IT Suffix
        2. Test Connection
            - **A.** TC Suffix
        3. Return Limiter in place of thermostatic balance valve
            - **A.** RL
        4. Cabinet
            - **A.** Exposed Only
                1. Stainless Steel
                2. Baked White Enamel