ENV-6100-LF

Neutron Digital Emergency Mixing Valve

1. Neutron Digital Emergency Mixing Valve

   A. Mixing Valve shall be Digital and comply with National Low Lead Laws @< .25% Lead

   B. ENV-6100-LF shall:
      1. have 1 ¼" inlet/1 ½" outlet connections with integral stop/check valves
      2. 2-line, 16-character LED display
      3. Integral RTD Sensor
      4. Deliver mixed water flow of 60 GPM @ 30 PSI Pressure Drop
      5. Maintain temperature with .25 GPM flow from the domestic hot water loop

   C. ENV-6100-LF shall have all the following operational capabilities:
      1. Daily shuttle sweep designed to prevent scale buildup on internal mechanical components
      2. +/- 2˚F water temperature control at times of use and no demand
      3. Self-Balancing, do not need to adjust or balance recirculation
      4. Self-Cleaning, daily shuttle sweep keeps shuttle free of debris
      5. Automatic shutoff of hot water upon cold water inlet supply failure
      6. Automatic cold water bypass of 40gpm upon hot water inlet supply failure
      7. User programmable set point range between 65 degree Fahrenheit and 90 degrees Fahrenheit, displays outlet temperature
      8. Maintain last control position in the event of power failure
      9. Option for backup UPS standby power in the event of primary power loss with approximately 2 hour run time

   D. ENV-6100-LF shall be certified to ASSE standard 1071 and CSA B125.3-18 and so certified and identified

   E. ENV-6100-LF shall be cULus listed and identified

   F. Maximum Operating Pressure shall be no greater than 125 PSI

   G. BMS connectivity available with Proton 2.5 box utilizing BACnet MS/TP connection

      1. ENV-6100-LF-2.5