PNV-300-LF-R

Nucleus Proton Digital Mixing Valve

- 1. Nucleus Proton Digital Mixing Valve
 - A. Mixing Valve shall be Digital and comply with National Low Lead Laws @< .25% Lead
 - B. PNV-300-LF-R shall:
 - 1. have 3" inlet/3" outlet connections
 - 2. 2-line, 16-character LED display
 - 3. Integral RTD Sensor
 - 4. Deliver mixed water flow of 235 GPM @ 30 PSI Pressure Drop
 - 5. Maintain temperature with .25 GPM flow from the domestic hot water loop
 - C. PNV-300-LF-R shall have all the following operational capabilities:
 - 1. 1X per day 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. 2°F minimum inlet to outlet water temperature differential
 - 4. Automatic shutoff of hot water upon cold water inlet supply failure
 - 5. Automatic shutoff of cold water upon hot water inlet supply failure
 - 6. Maintain last control position in the event of power failure or be equipped with UPS standby power for approximately 2 hour run time
 - 7. Programmable set point range of 65-180°F (18-82°C)
 - D. PNV-300-LF-R shall be certified to ASSE standard 1017 and CSA B125.3-18 and so certified and identified
 - E. PNV-300-LF-R shall be cULus listed and identified
 - F. Maximum Operating Pressure shall be no greater than 125 PSI
 - G. Disinfection Option with Proton Box 2.0
 - H. BMS connectivity available with Proton 2.5 box utilizing BACnet MS/TP connection in addition to including Disinfection
 - Wi-Fi Connectivity available with Proton 3.0 box in addition to BACnet MS/TP connection, Disinfection, relay, and 3 additional temperature probes for hot and cold inlet in addition to return
 - J. PNV-300-LF-R shall include (2) 1 ½ " check valves and tee for recirculation loop tie-in, 3" ball valves on hot inlet, cold inlet and outlet, and a 3" check valve on the cold-water and hot water inlet.