Variable Flow Water Systems Design

Agenda

09:15      Arrival – Registration / coffee / tea

09:30     Session 1 - Introduction and General Principles
           ▪ Defining a Variable Flow Water System
           ▪ Comparison of Constant Flow to Variable Flow
           ▪ Variable Flow System Energy Savings
           ▪ Pump and System Curves for Constant and Variable Flow

11:15     Coffee / tea break (15 mins)

11:30     Session 2 - Design Process
           ▪ Design Process Margins
           ▪ Diversity of Peak Module/Terminal Loads
           ▪ Thermal Load Diversity Factor
           ▪ Comparison of Pump Duty Constant Flow to Variable Flow
           ▪ Typical Terminal Water Flow/Output Characteristics (including examples)
           ▪ Pipe layouts

13:00     Lunch (60 mins)

14:00     Session 3 - Hydraulic Stability
           ▪ Pressure Diagram
           ▪ Pressure Distribution in a Variable Flow System
           ▪ Pump Control
           ▪ Pressure Differential Regulators/Pressure Independent Control Valves
           ▪ Bypasses

For more information about this course contact the training team:

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15:00  Coffee / tea break (15 mins)

15:15  Session 4 - Other Issues

- Typical Applications
- The Selection Process
- Retro Futtting

16:30  Q & A