

Control Valves Technology

COURSE OUTLINE:

- ◆ Introduction to the importance of final control elements to feedback control.
- ◆ Energy dissipation in control valves, and the use of other final control elements.
 - Control Valve Bodies
 - Globe valves - single-ported.
 - Globe valves - double-ported.
 - Butterfly valves.
 - Ball valves.
 - Eccentric disc valves.
 - Gate valves.
- ◆ Valve pressure-rating issues.
- ◆ Stem Packing issues.
- ◆ Control valve stem packing issues.
- ◆ Introduction to basic control valve flow calculations.
- ◆ Valve port characteristics and selection.
- ◆ Actuator Applications:
 - Spring opposed diaphragm
 - Single-acting piston actuator
 - Double-acting piston actuator
 - Vane actuator.
 - Rolling diaphragm actuator
 - Electrical motor drives.
 - Hydraulic actuators.
- ◆ Self-actuated controllers.
- ◆ Introduction to the use of Masoneilan valve sizing software.
- ◆ Cavitation and flashing in valves and sizing considerations.
- ◆ Noise production in control valves, prediction and control.
- ◆ Control Valve Positioners, Transducers & Boosters.

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