

Control Valve Primer: A User's Guide

By Hans D. Baumann

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This new edition of the ISA best-seller contains new material on valve sizing, smart (digital) valve positioners, field-based architecture, network system technology, and control loop performance evaluation. The author, a holder of 118 patents in control valve technology, shares his expertise with engineers faced with designing control loops and selecting final control elements. Written with the user in mind, the text avoids scientific wording and gives shortcuts through complex sizing and noise calculation formulas. It gives practical advice on how to apply control valves for safety, reduced energy costs, and easy maintenance. Contents: What is a Control Valve and How Does it Affect My Control Loop? Why Not Use a Speed-Controlled Pump? What Valve Type Shall I Choose? Valve Sizing Made Easy Sizing and Selection-Let the Computer Do it All! Why Most People Choose 'Equal Percentage' As a Flow Characteristic Valve Positioners The Mystery of Line Pressure Produced Valve Stem Forces, or Selecting the Correct Actuator Size How to Install a Control Valve When Do I Need to 'Hard Face' the Valve Trim and Other Questions Concerning Valve Materials Concern for the Environment Valves for Sanitary or Aseptic Service Twelve Commandments: What You Shall Not Do! Electric Versus Pneumatic Actuators Saving Energy The Bus System to the Rescue, or What the Future May Bring.

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Colleen Nguyen:

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Katrina Hering:

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