



AVIDUS ENGINEERING PRIVATE LIMITED (AEPL)
Unfolding Technology

AEPL-T-006
CONTROL VALVES /
RELIEF VALVES STUDY & SIZING

TRAINING PROGRAMME

ELIGIBILITY : EIE, ME, CHE
DURATION : 2 WEEKS

1. Control Valves-Selection

- ❖ Study of Different Types and Applications
- ❖ Ball, ButterFly, Gate, Plug and Diaphragm types
- ❖ Specifications of Control Valve

2. Control Valves-Modulating

- ❖ Selection and Sizing
- ❖ Sizing Parameters
- ❖ Liquid, Gas and Steam applications
- ❖ Computer sizing Software's

3. Valve Actuators-1

- ❖ Pneumatic/Electric/Hydraulic
- ❖ Selection and Sizing

4. Valve Actuators-2

- ❖ Specifying Electro-Pneumatic Transducers,
- ❖ Pneumatic Boosters, and Control Valve Positioners

5. Specifying Control Valves for Cavitating Flows

- ❖ Cavitating services
- ❖ Predicting Cavitation damage
- ❖ Selecting anti cavitation trims
- ❖ Sizing anti cavitation control valves

6. Specifying Control Valves to Attenuate

- ❖ Aerodynamic Control Valve Noise
- ❖ Origin and measurement of control valve noise
- ❖ Attenuation of aerodynamic noise

7. Pressure Relief Valves

- ❖ Introduction to Pressure Relief Systems
- ❖ ASME, API Requirements
- ❖ Terms of Pressure Relief Devices

8. Pressure Relief Valves

- ❖ Principles of Pressure Relief Valve Operation
- ❖ Conventional Type
- ❖ Pilot Operated Type
- ❖ Installation Requirements

9. Sizing and Selecting Pressure Relief Valves

- ❖ Contingencies of over pressure
- ❖ Study of Flow rate and Effective discharge Area
- ❖ Sizing for gas, liquid, steam applications

10. Determine Whether an Installed Pressure

- ❖ Relief Valve Complies with Requirements

11. Troubleshooting PZV Installations

- ❖ Relief Valve Chattering
- ❖ Relief Valve leakage
- ❖ Failure of bellows, spring, pilot device

12. Maintenance and Testing of PZVs

- ❖ Shop Testing
- ❖ Set Pressure testing
- ❖ Functional Test
- ❖ IN-PLACE testing

Visit website for more details :
www.avidus.in

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