

# Product Training - Valves

## Course Contents

### ❖ **Introduction to Valves (Session : 1)**

- History of valves
- Types of Valves, their applications
- Classification according to function
- Classification according to Application
- Classification according to Port Size / Pressure Rating
- Classification according to Motion
- Common terms used
- Future of the valve industry

### ❖ **Valve Selection Criteria (Session : 2)**

- Valve coefficients
- Flow characteristics
- Shut off requirements
- Body end connections
- Pressure Rating, End Connections
- Body Material selection
- Trim & other components material selection

### ❖ **Manual Valves (Session : 3)**

- Introduction to different types of manual valves
- Ball valve
- Butterfly valve
- Gate valve
- Globe valve
- Check valve
- Applicable Standards for valves

### ❖ **Control Valves (Session : 4)**

- Introduction to control valves
- Globe control valves
- Butterfly control valves
- Ball control valves
- Eccentric plug control valve

### ❖ **Manual Operators, Actuators & Positioners (Session : 5)**

- Manual operators

# Product Training - Valves

- Pneumatic actuators
- Electric Actuators
- Positioners
- Accessories

## ❖ **Valve Sizing (Session : 6)**

- Introduction to valve sizing
- Nomenclature
- Sizing of Liquid
- Sizing of Gas

## ❖ **Actuator Sizing (Session : 7)**

- Actuator sizing criteria
- Sizing Pneumatic actuators
- Sizing Electromechanical and Electrohydraulic actuators

## ❖ **Valve Problems (Session : 8)**

- High pressure drops
- Cavitation
- Flashing
- Choked flow
- High velocity
- High noise level
- Fugitive emissions
- Valve maintenance and repair

### Note :

- ✓ Exercises / Q&A throughout the workshop.
- ✓ Final test will be conducted to know about the effectiveness of the training session.
  
- ✓ **Duration** : 2 Days (8 Hrs./Day)

### Contact Details

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