

Valve Specifying Checklist



Use this list as a guide when making an important valve purchase. Knowing this criteria will help us design or select the best valve for your particular application.

PROJECT TITLE _____

GENERAL DESCRIPTION OF USE: _____

APPLICATION

- Media being handled, e.g., liquid, gas, slurry, % solids
- Corrosiveness of media, e.g., pH, chlorides, concentration
- Corrosiveness of atmosphere (external)
- Flow (velocity, capacity, one way or bi-directional)
- Pipe size
- Actual I.D.
- Media temperature (maximum <- operating -> minimum)
- Pressure: Normal operating pressure, maximum pressure; maximum differential pressure
- Operation: e.g., manual/automatic, on-off throttling
- Installation constraints
- Accessibility
- Conformance to appropriate standards, e.g., API, AWWA, ANSI, FM, UL, OSHA, etc.
- Tightness of shutoff required

VALVE REQUIREMENTS

- Type of valve, e.g., ball, butterfly, gate, check, control, globe, plug, relief, regulator, pinch, diaphragm, etc.
- Bolting
- Bonnet
- Frequency of operation
- Packing
- Special requirements, e.g., testing, tagging, coating
- Accessories, e.g., stem/shaft extensions, locking device, position indicator, jacketing

VALVE ACTUATION

- Type, e.g., manual, electric, pneumatic, hydraulic
- Motion required
- Rotary, e.g., quarter-turn, multi-turn
- Linear
- Mode of operation
- Double acting
- Spring return: spring-to-closed, spring-to-open
- Required valve operating thruster torque
- Power supply, e.g., voltage, available air supply
- On/off, throttling, or proportional control
- Corrosive resistance: materials, coating, tubing
- Speed of operation
- Frequency of operation
- Special requirements, e.g., tagging, testing
- Accessories, e.g., limit switches, positioner, solenoid valve, transducers, manual override