

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., toggling, testing
- ✓ Accessories, e.g., limit switches, positioner, solenoid valve, transducers, manual override