

Valves Specifying Check List

Valves India will help you to define your valve needs and specify the product to meet those needs. Use the list below as a guide to some of the many factors you'll need to consider in making an important valve purchase. Knowing this criteria will help the valve manufacturer or its distributor design and/or select the best valve for your particular application.

Application

- ▶ Media being handled, e.g., liquid, gas, slurry, or solid
- ▶ Corrosiveness of media, e.g., pH, concentration
- ▶ Corrosiveness of atmosphere
- ▶ Flow (velocity, capacity, Cv, direction)
- ▶ Pipe size
- ▶ Media temperature (maximum to minimum)
- ▶ Pressure: maximum operating pressure; maximum differential pressure
- ▶ Operation: e.g., manual/automatic, on-off throttling
- ▶ Installation constraints
- ▶ Envelope dimensions
- ▶ Weight
- ▶ Accessibility
- ▶ Conformance to appropriate standards, e.g., API, AWWA, ANSI,

FM, UL, OSHA, etc.

- ▶ Tightness of shutoff required

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

Valves Requirements

- ▶ Type of valve, e.g., ball, butterfly, gate, check, control, globe, plug, relief, regulator, pinch, diaphragm, etc.

- ▶ Valve size
- ▶ End connections, e.g., screwed, ranged/lugged, wafer, butt-weld, mechanical joint, etc.
- ▶ Materials of construction, e.g., carbon steel, resins, steel or other alloys, cast iron, etc.
- ▶ Body
- ▶ Trim
- ▶ Seats
- ▶ Bolting
- ▶ Frequency of operation
- ▶ Packing
- ▶ Special requirements, e.g., testing, tagging, coating
- ▶ Accessories, e.g., stem/shaft extensions, locking device, position indicator, jacketing

Service Requirements

- ▶ Testing
- ▶ Source inspection
- ▶ Availability of replacement valves, actuators, or parts
- ▶ Documentation, e.g., certified prints, dimension drawings
- ▶ Installation and maintenance instructions
- ▶ Delivery requirements, e.g., timing, packaging

Availability of engineering service, e.g., application, field, factory.