## Ball Valve Actuation Questionnaire Checklist

**Return Fax To Tech Services: (818) 364-6945**

### Ball Valves:

<table>
<thead>
<tr>
<th>System Media Pressure (Required)</th>
<th>psi</th>
<th>kPa</th>
<th>Bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Size</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>in</td>
<td>mm</td>
<td>cm</td>
</tr>
</tbody>
</table>

### Ball Valve Type:
- True Union Industrial
- True Union Standard
- Compact
- True Union Tee Style
- Other Valve Type

### Body Material:
- PVC
- CPVC
- Low-Extractable PVC

### O-ring Seals:
- EPDM
- FKM
- Other

### End Connector:
- Socket
- Flange
- Threaded
- Spigot
- Metric
- DIN
- JS
- BSP (Thread)

### Vertical 3-Way Orientation
- Single L Port
- Triple L Port
- Double L Port
- T Port

### Horizontal 2-Way Orientation
- L Port
- T Port

### Pneumatic 
- Not all combinations may be available.

#### FailSafe Type
- (Position to which valve cycles upon air loss)
- Double Acting (No FailSafe. Stays in last activated position)
- Spring Return - Close (FailSafe in closed position upon air loss)
- Spring Return - Open (FailSafe in open position upon air loss)
- Other:

#### Operating Air Pressure (psi) - (Compressed air supply required to operate actuator)
- 80-150
- Other:

#### Override Type - (Override used to cycle valve upon air loss)
- Basic
- Declutchable
- Other:

#### Aux. Limit Switches - (Additional mechanical switches to operate external lights, alarms, etc.)
- SPDT: Mechanical
- SPDT: Proximity
- DPDT: Mechanical

#### Voltage Signal Type - Specify Voltage:
- Visual Indicator - Provides local visual valve position indication
- No Indicator

#### Positioner Type - (Positioner accepts an input signal from PLC to control valve cycle):
- Pneumatic Positioner - (Air supply required to operate valve)
- Signal Pressure - (Air pressure required to position the valve)
- 3-15 psi
- Other:

#### Electro-Pneumatic Positioner - (Air and voltage supply required to operate)
- Signal Voltage Input - 4-20mA
- 0-10 VDC
- Other:

#### With Transmitter - (Sends output signal to PLC to provide valve position)
- Transmitter Output - 4-20mA
- Other:

#### NEMA Rating - (Enclosure rating indicates level of ingress protection from fluids, solids and gases)
- 4
- 4x
- Other:

### Electric
- Not all combinations may be available.

#### Basic Two Position - (90 Degree Travel Standard)
- 3 Position
- 90°
- 180°

#### FailSafe Position - (If required)
- Fail Open: FailSafe in open position upon air loss
- Fail Close: FailSafe in closed position upon air loss

#### Voltage Supply Power:
- 115 VAC
- 230 VAC
- Other:

#### Frequency
- 50 Hertz
- 60 Hertz

#### Phase
- Single
- Three

#### Duty Cycle - (Override used to cycle valve upon power loss)
- Basic
- Declutchable
- Other:

#### NEMA Rating - (Enclosure rating indicates level of ingress protection from fluids and solids)
- 4
- 4x
- Other:

### Positioner Type - (Positioner accepts an input signal from PLC to control valve cycle)
- Positioner with Transmitter
- Signal Input - 4-20mA
- Other:

#### Transmitter - (Sends output signal to PLC to provide valve position)
- Signal Output - 4-20mA
- 0-10 VDC
- Other:

#### Positioner - NO Transmitter
- Signal Input - 4-20mA
- 0-10 VDC
- Other:

### Auxiliary Limit Switches - (Additional mechanical switches to operate external lights, alarms, etc.)
- (Set of 2 each)

### Standard Accessories - All options not available in all actuator combinations
- Torque Sensor
- Battery Backup
- LED Indicating Lights (red / green)
- Speed Control
- 2 Wire Control Relay
- Heater & Thermostat - [On @ 41°F] [Off @ 60°F]
- [On @ 69.8°F] [Off @ 89.6°F]
- (On @ 62.6°F] [Off @ 85.6°F]
- Other Options:
Butterfly Valve Actuation Questionnaire Checklist

Return Fax To Tech Services: (818) 364-6945

<table>
<thead>
<tr>
<th>Contact Name:</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Name:</td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td>State:</td>
</tr>
<tr>
<td>Phone:</td>
<td>Fax:</td>
</tr>
</tbody>
</table>

Butterfly Valves: System Media Pressure (Required) psl
Nominal Size

<table>
<thead>
<tr>
<th>Butterfly Valve Type:</th>
<th>Nominal Size</th>
<th>Body Material:</th>
<th>O-ring Seals:</th>
<th>Lug Materials:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td></td>
<td>PVC</td>
<td>Buna-N</td>
<td>55316</td>
</tr>
<tr>
<td>True Lug</td>
<td></td>
<td>CPVC</td>
<td>EPDM</td>
<td>Zinc</td>
</tr>
<tr>
<td>Tandem Diverting</td>
<td></td>
<td>Polypropylene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tandem Three Way</td>
<td></td>
<td></td>
<td>FKM</td>
<td></td>
</tr>
<tr>
<td>Wafer</td>
<td></td>
<td></td>
<td>Other</td>
<td>Other</td>
</tr>
</tbody>
</table>

Other Valve Type [ ]

Other Information:

<table>
<thead>
<tr>
<th>Pneumatic [ ]</th>
<th>Not all combinations may be available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FailSafe Type (Position to which valves cycles upon air loss)</td>
<td></td>
</tr>
<tr>
<td>Double Acting (No FailSafe. Stays in last activated position)</td>
<td></td>
</tr>
<tr>
<td>Spring Return - Close (FailSafe in closed position upon air loss)</td>
<td></td>
</tr>
<tr>
<td>Spring Return - Open (FailSafe in open position upon air loss)</td>
<td></td>
</tr>
<tr>
<td>Other:</td>
<td></td>
</tr>
<tr>
<td>Operating Air Pressure (psig) = (Compressed air supply required to operate actuator)</td>
<td>80-150</td>
</tr>
<tr>
<td>Override Type = (Override used to cycle valve upon air loss)</td>
<td>Basic</td>
</tr>
<tr>
<td>Aux. Limit Switches = (Additional mechanical switches to operate external lights, alarms etc. (Set of 2)</td>
<td>SPST - Mechanical</td>
</tr>
<tr>
<td>Voltage Signal Type</td>
<td>Specify Voltage:</td>
</tr>
<tr>
<td>Visual Indicator = (Provides local visual valve position indication)</td>
<td>Low Profile</td>
</tr>
<tr>
<td>Positioner Type = (Positioner accepts an input signal from PLC to control valve cycle)</td>
<td>Dome</td>
</tr>
<tr>
<td>Pneumatic Positioner (Air pressure supplied to operate valve)</td>
<td></td>
</tr>
<tr>
<td>Signal Pressure = (Air pressure required to position the valve)</td>
<td>3-15 psig</td>
</tr>
<tr>
<td>Electro-Pneumatic Positioner (Air and voltage supply required to operate)</td>
<td></td>
</tr>
<tr>
<td>Signal Voltage Input</td>
<td>4-20mA</td>
</tr>
<tr>
<td>Transmitter Output</td>
<td>4-20mA</td>
</tr>
<tr>
<td>NEMA Rating = (Enclosure rating indicates level of ingress protection from fluids, solids and gases)</td>
<td>4</td>
</tr>
<tr>
<td>Solenoid Valve = (Regulates actuator intake/exhaust air supply)</td>
<td></td>
</tr>
<tr>
<td>3 &amp; 4 Way</td>
<td>Dual Coil (Double Actuating only)</td>
</tr>
<tr>
<td>Solenoid ValveVoltage</td>
<td>115 VAC</td>
</tr>
<tr>
<td>NEMA Rating = (Enclosure rating indicates level of ingress protection from fluids and solids)</td>
<td>4</td>
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<tr>
<td>Other Options:</td>
<td></td>
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<tr>
<th>Electric [ ]</th>
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<tr>
<td>FailSafe Position (if required)</td>
<td></td>
</tr>
<tr>
<td>Fail Open - Open (FailSafe in open position upon power loss)</td>
<td></td>
</tr>
<tr>
<td>Fail Close - Close (FailSafe in closed position upon power loss)</td>
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<tr>
<td>Voltage Supply Power:</td>
<td>115 VAC</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hertz</td>
</tr>
<tr>
<td>Phase</td>
<td>Single</td>
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<td>Override Type = (Override used to cycle valve upon air loss)</td>
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<td>Aux. Limit Switches = (Additional mechanical switches to operate external lights, alarms etc. (Set of 2)</td>
<td>SPST - Mechanical</td>
</tr>
<tr>
<td>Duty Cycle (Amount of work valve can accomplish before requiring rest)</td>
<td>25%</td>
</tr>
<tr>
<td>NEMA Rating = (Enclosure rating indicates level of ingress protection from fluids and solids)</td>
<td>4</td>
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<tr>
<td>Positioner Type = (Positioner accepts an input signal from PLC to control valve cycle)</td>
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<td>Positioner with Transmitter</td>
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<tr>
<td>Transmitter = (Sends output signal to PLC to provide valve position)</td>
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<tr>
<td>Standard Accessories - All options not available in all actuator combinations</td>
<td>Torque Sensor</td>
</tr>
<tr>
<td>Battery Backup</td>
<td>LED Indicating Lights (red/green)</td>
</tr>
<tr>
<td>Speed Control</td>
<td>2 Wire Control Relay</td>
</tr>
<tr>
<td>Other Options:</td>
<td>[ ]</td>
</tr>
</tbody>
</table>

Rev. A 2010
# Diaphragm Valve Actuation Questionnaire Checklist

Return Fax To Tech Services: (818) 364-6945

## Contact Information
- **Name:**
- **Business Name:**
- **City:**
- **Phone:**
- **E-mail:**
- **Project Name:**
- **Date:**
- **State:**
- **Country:**

## Diaphragm Valves: System Media Pressure (Required)

### Nominal Size
- **psi** | **kPa** | **Bar** | **cm**

### Body Material:
- EPDM
- FKM
- PTFE/ETFE
- Low-Extractable PVC
- Polypropylene

## End Connector O-rings 1/2" - 2"

### End Connector:
- EPDM
- FKM
- PTFE/ETFE
- Other (If Other Explain)

## Not all combinations may be available.

### Unitized Pneumatic
- **Type:**
- **FailSafe**
  - Position to which valve cycles upon air loss
  - Double Acting (No FailSafe. Stays in last activated position)
  - Spring Return - Close (FailSafe in closed position) upon air loss
  - Spring Return - Open (FailSafe in open position) upon air loss
- **Operating Air Pressure (psi)** - Compressed air supply required to operate actuator
- **Override Type** - Override used to cycle valve upon air loss. Not available in sizes 1/2" - 2"
- **Duty Cycle** (Amount of work valve can accomplish before requiring rest)
  - 25%
  - 75%
  - Other

### Electric Multi Turn
- **Voltage Supply Power:**
  - 115 VAC
  - 230 VAC
  - Other
- **Frequency:**
  - 50 Hertz
  - 60 Hertz
- **Phase:**
  - Single
  - Three

## Standard Accessories - All options not available in all actuator combinations
- **Torque Sensor**
- **Battery Backup**
- **LED Indicating Lights (red/green)**
- **Speed Control**
- **2 Wire Control Relay**
- **Heater & Thermostat**
- **Other Options:**

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