

Appendix C - Butterfly Valve Actuation Questionnaire Checklist

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



Contact Name: _____ **Date:** _____
Business Name: _____
City: _____ **State:** _____ **Country:** _____
Phone: _____ **Fax:** _____ **E-mail:** _____
Project Name: _____

Butterfly Valves:	System Media Pressure (Required)	psi _____	kPa _____	Bar _____	Valve Quantity Each								
	Nominal Size	in _____	mm _____	cm _____									
<table style="width: 100%;"> <tr> <td style="width: 25%;">Butterfly Valve Type :</td> <td style="width: 25%;">Body Material :</td> <td style="width: 25%;">O-ring Seals :</td> <td style="width: 25%;">Lug Materials :</td> </tr> <tr> <td> Standard <input type="checkbox"/> True Lug <input type="checkbox"/> Tandem Diverting <input type="checkbox"/> Pool Valve <input type="checkbox"/> Tandem Three Way <input type="checkbox"/> Wafer <input type="checkbox"/> (Tandem 3-Way Orientation Document Required) Other Valve Type <input type="checkbox"/> _____ </td> <td> PVC <input type="checkbox"/> CPVC <input type="checkbox"/> Polypropylene <input type="checkbox"/> </td> <td> Buna- N <input type="checkbox"/> EPDM <input type="checkbox"/> Viton® <input type="checkbox"/> Other <input type="checkbox"/> (If Other Explain) _____ </td> <td> SS316 <input type="checkbox"/> Zinc <input type="checkbox"/> </td> </tr> </table>						Butterfly Valve Type :	Body Material :	O-ring Seals :	Lug Materials :	Standard <input type="checkbox"/> True Lug <input type="checkbox"/> Tandem Diverting <input type="checkbox"/> Pool Valve <input type="checkbox"/> Tandem Three Way <input type="checkbox"/> Wafer <input type="checkbox"/> (Tandem 3-Way Orientation Document Required) Other Valve Type <input type="checkbox"/> _____	PVC <input type="checkbox"/> CPVC <input type="checkbox"/> Polypropylene <input type="checkbox"/>	Buna- N <input type="checkbox"/> EPDM <input type="checkbox"/> Viton® <input type="checkbox"/> Other <input type="checkbox"/> (If Other Explain) _____	SS316 <input type="checkbox"/> Zinc <input type="checkbox"/>
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<input type="checkbox"/> Other Information: _____													

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. (set of 2))

SPDT- Mechanical SPDT- Proximity DPDT - Mechanical
 Voltage Signal Type Specify Voltage: _____

Visual Indicator - (Provides local visual valve position indication)

Low Profile Dome

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 0-10 VDC Other: _____

NEMA Rating - (Enclosure rating indicates level of ingress protection from fluids, solids and gases)

4 4x Other: _____

Solenoid Valve - (Regulates actuator intake/exhaust air supply)

3 & 4 Way Dual Coil (Double Acting Actuators only) Other: _____

Solenoid Valve Voltage

115 VAC 230 VAC Other: _____

NEMA Rating - (Enclosure rating indicates level of ingress protection from fluids and solids)

4 4x Other: _____

Other Options:

Electric **Not all combinations may be available.**

Basic Two Position (90 Degree Travel Standard)

FailSafe Position (if required)

Fail Open - Open (FailSafe in open position upon power loss)
 Fail Close - Close (FailSafe in closed position upon power loss)

Note: On "Fail Safe" options two positions ONLY Override Not Recommended.

Voltage Supply Power:

115 VAC 230 VAC Other: _____

Frequency 50 Hertz 60 Hertz

Phase Single Three

Override Type - (Override used to cycle valve upon power loss)

Basic Declutchable Other: _____

Duty Cycle (Amount of work valve can accomplish before requiring rest)

25% 75% Other/Min. Requirement: _____

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 0-10 VDC 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.)

2 4 (Set of 2 each)

Standard Accessories - All options not available in all actuator combinations

Torque Sensor Torque Sensor
 Battery Backup LED Indicating Lights (red / green)
 Speed Control 2 Wire Control Relay
 Heater & Thermostat [On @ 41F] [Off @ 60.8F] [On @ 69.8F] [Off @ 89.6F]
 [On @ 62.6F] [Off @ 80.6F]

Other Options:

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Appendix C - Diaphragm Valve Actuation Questionnaire Checklist

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Contact Name: _____ **Date:** _____
Business Name: _____
City: _____ **State:** _____ **Country:** _____
Phone: _____ **Fax:** _____ **E-mail:** _____
Project Name: _____

Diaphragm Valves: System Media Pressure (Required) psi _____ kPa _____ Bar _____ _____ Nominal Size in _____ mm _____ cm _____ Diaphragm Valve Type : EPDM <input type="checkbox"/> Viton* <input type="checkbox"/> PTFE/Viton* <input type="checkbox"/> PTFE/EPDM <input type="checkbox"/> Other Valve Type <input type="checkbox"/> _____	Body Material : PVC <input type="checkbox"/> CPVC <input type="checkbox"/> Low-Extractable PVC <input type="checkbox"/> Polypropylene <input type="checkbox"/>	End Connector O-rings 1/2" - 2" : EPDM <input type="checkbox"/> Viton* <input type="checkbox"/> PTFE/Viton* <input type="checkbox"/> PTFE/EPDM <input type="checkbox"/> Other <input type="checkbox"/> (If Other Explain) _____	Valve Quantity Each _____ End Connector : Socket <input type="checkbox"/> SR Threaded <input type="checkbox"/> Flange <input type="checkbox"/> Spigot <input type="checkbox"/>
<input type="checkbox"/> Other information: _____			
<p style="text-align: center;">Not all combinations may be available.</p> Unitized Pneumatic <input type="checkbox"/> Pneumatic <input type="checkbox"/> FailSafe Type - (Position to which valve cycles upon air loss) <input type="checkbox"/> Double Acting (No FailSafe. Stays in last activated position) <input type="checkbox"/> Spring Return - Close (FailSafe in <u>closed position</u> upon air loss) <input type="checkbox"/> Spring Return - Open (FailSafe in <u>open position</u> upon air loss) <input type="checkbox"/> Other: _____ Operating Air Pressure (psi) - (Compressed air supply required to operate actuator) <input type="checkbox"/> 80-116 <input type="checkbox"/> Other: _____ Override Type - (Override used to cycle valve upon air loss. Not available in sizes 1/2" - 2") <input type="checkbox"/> Basic <input type="checkbox"/> Declutchable <input type="checkbox"/> Other: _____ Aux. Limit Switches - (Additional mechanical switches to operate external lights, alarms etc. (set of 2)) <input type="checkbox"/> SPDT- Mechanical <input type="checkbox"/> SPDT - Proximity <input type="checkbox"/> DPDT - Mechanical Voltage Signal Type: Specify Voltage: _____ Visual Indicator - (Provides local visual valve position indication) <input type="checkbox"/> Low Profile <input type="checkbox"/> Dome Positioner Type - (Positioner accepts an input signal from PLC to control valve cycle). <input type="checkbox"/> Pneumatic Positioner (Air supply required to operate valve) Signal Pressure - (Air pressure required to position the valve) <input type="checkbox"/> 3-15 psi <input type="checkbox"/> Other: _____ <input type="checkbox"/> Electro-Pneumatic Positioner (Air and voltage supply required to operate) Input <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-10 VDC <input type="checkbox"/> Other: _____ <input type="checkbox"/> With Transmitter - (Sends output signal to PLC to provide valve position) Transmitter Output <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-10 VDC <input type="checkbox"/> Other: _____ NEMA Rating - (Enclosure rating indicates level of housing ingress protection from fluids and solids) <input type="checkbox"/> 4 <input type="checkbox"/> 4x <input type="checkbox"/> Other: _____ Solenoid Valve - (Regulates actuator intake/exhaust air supply) <input type="checkbox"/> 3 way (Air-to-Spring) <input type="checkbox"/> 4 way (Double Acting Actuators only) <input type="checkbox"/> Other: _____ Solenoid Valve Voltage <input type="checkbox"/> 115 VAC <input type="checkbox"/> 230 VAC <input type="checkbox"/> Other: _____ NEMA Rating - (Enclosure rating indicates level of ingress protection from fluids, solids and gases) <input type="checkbox"/> 4 <input type="checkbox"/> 4x <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other Options: _____	<p style="text-align: center;">Not all combinations may be available.</p> Electric Multi Turn <input type="checkbox"/> Voltage Supply Power: <input type="checkbox"/> 115 VAC <input type="checkbox"/> 230 VAC <input type="checkbox"/> Other: _____ Frequency <input type="checkbox"/> 50 Hertz <input type="checkbox"/> 60 Hertz Phase <input type="checkbox"/> Single <input type="checkbox"/> Three Override Type - (Override used to cycle valve upon power loss) <input type="checkbox"/> Basic <input type="checkbox"/> Declutchable <input type="checkbox"/> Other: _____ Duty Cycle (Amount of work valve can accomplish before requiring rest) <input type="checkbox"/> 25% <input type="checkbox"/> 75% <input type="checkbox"/> Other: _____ NEMA Rating - (Enclosure rating indicates level of ingress protection from fluids and solids) <input type="checkbox"/> 4 <input type="checkbox"/> 4x <input type="checkbox"/> Other: _____ Positioner Type - (Positioner accepts an input signal from PLC to control valve cycle) <input type="checkbox"/> Positioner with Transmitter Signal Input <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-10 VDC <input type="checkbox"/> Other: _____ Transmitter - (Sends output signal to PLC to provide valve position) Signal Output <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-10 VDC <input type="checkbox"/> Other: _____ <input type="checkbox"/> Positioner - NO Transmitter Signal Input <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-10 VDC <input type="checkbox"/> Other: _____ Auxiliary Limit Switches (Additional mechanical switches to operate external lights, alarms etc.) <input type="checkbox"/> 2 <input type="checkbox"/> 4 (Set of 2 each) Standard Accessories - All options not available in all actuator combinations <input type="checkbox"/> Torque Sensor <input type="checkbox"/> Battery Backup <input type="checkbox"/> LED Indicating Lights (red /green) <input type="checkbox"/> Speed Control <input type="checkbox"/> 2 Wire Control Relay <input type="checkbox"/> Heater & Thermostat <input type="checkbox"/> [On @ 41F] [Off @ 60.8F] <input type="checkbox"/> [On @ 69.8F] [Off @ 89.6F] <input type="checkbox"/> [On @ 62.6F] [Off @ 80.6F] <input type="checkbox"/> Other Options: _____		