

Appendix C - 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 _____ Project Number _____

Butterfly Valves

System Pressure: psi kPa Bar Nominal Size: in cm Quantity:

Type: Standard True Lug High Purity Wafer Pool Valve Shaved

Lug Materials: SS316 Zinc Tandem Diverting Tandem 3-Way

Body Material: PVC CPVC PP Seat/Seal Buna N EPDM Viton PTFE

Other Information

Actuation

<p>Pneumatic <input type="checkbox"/></p> <p>Hydraulic <input type="checkbox"/></p> <p><input type="checkbox"/> Double Acting</p> <p><input type="checkbox"/> Spring Return - Close</p> <p><input type="checkbox"/> Spring Return - Open</p> <p><input type="checkbox"/> Extended Travel Open</p> <p><input type="checkbox"/> Extended Travel Close</p> <p>Operating Air Pressure (PSI)</p> <p><input type="checkbox"/> 40 <input type="checkbox"/> 60 <input type="checkbox"/> 80 <input type="checkbox"/> 100 <input type="checkbox"/> 120</p> <p>Other Operating Pressure (kPa, Bar, etc.) _____</p> <p>Override Type</p> <p><input type="checkbox"/> None <input type="checkbox"/> Manual <input type="checkbox"/> Non-Declutchable</p> <p><input type="checkbox"/> Declutchable</p> <p>Visual Indicator</p> <p><input type="checkbox"/> Top Pointer <input type="checkbox"/> Flat Top <input type="checkbox"/> Dome</p> <p>Limit Switches</p> <p><input type="checkbox"/> SPDT <input type="checkbox"/> DPDT</p> <p><input type="checkbox"/> Mechanical <input type="checkbox"/> Proximity</p> <p>Signal Type</p> <p>Specify Voltage/Pressure _____</p> <p style="text-align: center;">Positioner Type <input type="checkbox"/> Pneumatic <input type="checkbox"/> Elect. Pneu.</p> <p>Signal Pressure <input type="checkbox"/> 0-15 PSI <input type="checkbox"/> 3-15 PSI</p> <p><input type="checkbox"/> Servo Positioning Control with Transmitter</p> <p><input type="checkbox"/> Servo Positioning Control - NO Transmitter</p> <p>Input <input type="checkbox"/> 0-20mA <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-5VDC <input type="checkbox"/> 0-10VDC</p> <p>Output <input type="checkbox"/> 0-20mA <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-5VDC <input type="checkbox"/> 0-10VDC</p> <p>NEMA Rating <input type="checkbox"/> 4 <input type="checkbox"/> 4X <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 68</p> <p>IP Rating _____</p> <p>ATEX (provide description) _____</p> <p>Solenoid Valve</p> <p><input type="checkbox"/> Standard <input type="checkbox"/> Stainless Steel</p> <p><input type="checkbox"/> 3&4 Way</p> <p>12 VDC <input type="checkbox"/> 24 VDC <input type="checkbox"/> 115 VAC</p> <p>12 VAC <input type="checkbox"/> 24 VAC <input type="checkbox"/> 230 VAC</p> <p>NEMA Rating <input type="checkbox"/> 4 <input type="checkbox"/> 4X <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 68</p> <p>IP Rating _____</p> <p>ATEX (provide description) _____</p>	<p>Electric <input type="checkbox"/></p> <p>Basic Two Position (90 Degree Travel)</p> <p><input type="checkbox"/> Fail Open <small>Note: On "Fail Safe" Options Two Position ONLY</small></p> <p><input type="checkbox"/> Fail Close <small>Not Available on 10" and Larger Butterfly Valves due to Torque</small></p> <p><input type="checkbox"/> Servo Positioning Control with Transmitter</p> <p><input type="checkbox"/> Servo Positioning Control - NO Transmitter</p> <p style="text-align: center;">Signal Type <input type="checkbox"/> Current <input type="checkbox"/> Voltage</p> <p>Input <input type="checkbox"/> 0-20 mA <input type="checkbox"/> 4-20 mA <input type="checkbox"/> 0-5 VDC <input type="checkbox"/> 0-10 VDC</p> <p>Output <input type="checkbox"/> 0-20 mA <input type="checkbox"/> 4-20 mA <input type="checkbox"/> 0-5 VDC <input type="checkbox"/> 0-10 VDC</p> <p>Supply Power</p> <p><input type="checkbox"/> 12 VDC <input type="checkbox"/> 12 VAC <input type="checkbox"/> 120 VAC <input type="checkbox"/> 208 VAC</p> <p><input type="checkbox"/> 24 VDC <input type="checkbox"/> 24 VAC <input type="checkbox"/> 220 VAC <input type="checkbox"/> 480 VAC</p> <p><input type="checkbox"/> 230 VAC</p> <p>Frequency <input type="checkbox"/> 50 Hz <input type="checkbox"/> 60 Hz</p> <p>Phase <input type="checkbox"/> Single <input type="checkbox"/> Three</p> <p>Override</p> <p><input type="checkbox"/> Non-Declutchable <input type="checkbox"/> Declutchable</p> <p>Duty Cycle</p> <p><input type="checkbox"/> 25% <input type="checkbox"/> 40% <input type="checkbox"/> 50% <input type="checkbox"/> 75% <input type="checkbox"/> 80% <input type="checkbox"/> 100%</p> <p>NEMA Rating <input type="checkbox"/> 4 <input type="checkbox"/> 4X <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 68</p> <p>IP Rating _____</p> <p>ATEX (provide description) _____</p> <p>Auxiliary Limit Switches</p> <p><input type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6</p> <p>Miscellaneous Accessories - not all available in multiple installations</p> <p><input type="checkbox"/> Electronic Torque Switch <input type="checkbox"/> Friction Brake</p> <p><input type="checkbox"/> Battery Backup <input type="checkbox"/> Sequence Timer</p> <p><input type="checkbox"/> Interval Timer <input type="checkbox"/> Impulse Control Relay</p> <p><input type="checkbox"/> 2-Wire Control Relay</p> <p><input type="checkbox"/> Heater & Thermostat</p> <p>Additional Items _____</p>
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Ball Valves

System Media Pressure (Required)

	psi		kPa		Bar
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Nominal Size

	in		mm		cm
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Quantity Each

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Type

<input type="checkbox"/>	True Union Industrial
<input type="checkbox"/>	True Union Standard
<input type="checkbox"/>	True Union Regular Compact
<input type="checkbox"/>	True Union Tee-Style
<input type="checkbox"/>	3-Way Horizontal
<input type="checkbox"/>	3-Way Vertical
<input type="checkbox"/>	Tandem 3-way

(Tandem 3-Way Orientation Document Required with Questionnaire)

Materials

<input type="checkbox"/>	PVC
<input type="checkbox"/>	CPVC
<input type="checkbox"/>	LXT PVC

Seat/Seals

<input type="checkbox"/>	Buna N
<input type="checkbox"/>	EPDM
<input type="checkbox"/>	Viton
<input type="checkbox"/>	PTFE
<input type="checkbox"/>	Other (Explain Below)

End Connector:

<input type="checkbox"/>	Socket
<input type="checkbox"/>	Threaded
<input type="checkbox"/>	SR Threaded
<input type="checkbox"/>	Flange
<input type="checkbox"/>	Spigot

Vertical 3-Way **Horizontal 3-Way**

<input type="checkbox"/>	Single L-Port	<input type="checkbox"/>	Double L-Port	<input type="checkbox"/>	Triple L-Port	<input type="checkbox"/>	T-port	<input type="checkbox"/>	L-Port	<input type="checkbox"/>	T-Port
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Actuation

<p><input type="checkbox"/> Pneumatic</p> <p><input type="checkbox"/> Hydraulic</p> <p><input type="checkbox"/> Double Acting</p> <p><input type="checkbox"/> Spring Return - Close</p> <p><input type="checkbox"/> Spring Return - Open</p> <p><input type="checkbox"/> Extended Travel Open</p> <p><input type="checkbox"/> Extended Travel Close</p> <p><input type="checkbox"/> 3-Position 180 Degree Travel <input type="checkbox"/> Other (describe below)</p> <p>Operating Air Pressure (PSI)</p> <p><input type="checkbox"/> 40 <input type="checkbox"/> 60 <input type="checkbox"/> 80 <input type="checkbox"/> 100 <input type="checkbox"/> 120</p> <p>Other Operating Pressure (kPa, Bar, etc.)</p> <hr/> <p>Override Type</p> <p><input type="checkbox"/> None <input type="checkbox"/> Manual <input type="checkbox"/> Non-Declutchable</p> <p><input type="checkbox"/> Declutchable</p> <p>Visual Indicator</p> <p><input type="checkbox"/> Top Pointer <input type="checkbox"/> Flat Top <input type="checkbox"/> Dome</p> <p>Limit Switches</p> <p><input type="checkbox"/> SPDT <input type="checkbox"/> DPDT</p> <p><input type="checkbox"/> Mechanical <input type="checkbox"/> Proximity</p> <p>Signal Type</p> <p>Specify Voltage/Pressure _____</p> <p>Positioner Type <input type="checkbox"/> Pneumatic <input type="checkbox"/> Elect. Pneu.</p> <p><input type="checkbox"/> Servo Positioning Control with Transmitter</p> <p><input type="checkbox"/> Servo Positioning Control - NO Transmitter</p> <p>Input <input type="checkbox"/> 0-20mA <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-5 VDC <input type="checkbox"/> 0-10 VDC</p> <p>Output <input type="checkbox"/> 0-20mA <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-5 VDC <input type="checkbox"/> 0-10 VDC</p> <p>NEMA Rating IP Ratings</p> <p><input type="checkbox"/> 4 <input type="checkbox"/> 4X <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 68</p> <p>ATEX (provide description) _____</p> <p>Solenoid Valve</p> <p><input type="checkbox"/> Standard <input type="checkbox"/> Stainless Steel</p> <p><input type="checkbox"/> 3&4 Way <input type="checkbox"/> Dual Coil for 3-Position Actuators</p> <p><input type="checkbox"/> 12 VDC <input type="checkbox"/> 24 VDC <input type="checkbox"/> 115 VAC</p> <p><input type="checkbox"/> 12 VAC <input type="checkbox"/> 24 VAC <input type="checkbox"/> 230 VAC</p> <p>NEMA Rating IP Rating</p> <p><input type="checkbox"/> 4 <input type="checkbox"/> 4X <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 68</p> <p>ATEX (provide description) _____</p>	<p><input type="checkbox"/> Electric</p> <p><input type="checkbox"/> Basic Two Position (90 Degree Travel)</p> <p><input type="checkbox"/> Extended Travel 120 <input type="checkbox"/> 180 <input type="checkbox"/> 270 <input type="checkbox"/></p> <p><input type="checkbox"/> Fail Open</p> <p><input type="checkbox"/> Fail Close</p> <p style="text-align: center;"><small>Note: On "Fail Safe" Options Two Position ONLY</small></p> <p><input type="checkbox"/> Servo Positioning Control with Transmitter</p> <p><input type="checkbox"/> Servo Positioning Control - NO Transmitter</p> <p>Signal Type <input type="checkbox"/> Current <input type="checkbox"/> Voltage</p> <p>Input <input type="checkbox"/> 0-20 mA <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-5 VDC <input type="checkbox"/> 0-10 VDC</p> <p>Output <input type="checkbox"/> 0-20 mA <input type="checkbox"/> 4-20mA <input type="checkbox"/> 0-5 VDC <input type="checkbox"/> 0-10 VDC</p> <p>Supply Power</p> <p><input type="checkbox"/> 12 VDC <input type="checkbox"/> 12 VAC <input type="checkbox"/> 120 VAC <input type="checkbox"/> 208 VAC</p> <p><input type="checkbox"/> 24 VDC <input type="checkbox"/> 24 VAC <input type="checkbox"/> 220 VAC <input type="checkbox"/> 480 VAC</p> <p><input type="checkbox"/> 230 VAC</p> <p>Frequency <input type="checkbox"/> 50 Hz <input type="checkbox"/> 60 Hz</p> <p>Phase <input type="checkbox"/> Single <input type="checkbox"/> Three</p> <p>Override</p> <p><input type="checkbox"/> Non-Declutchable <input type="checkbox"/> Declutchable <input type="checkbox"/> No Override</p> <p>Duty Cycle</p> <p><input type="checkbox"/> 25% <input type="checkbox"/> 40% <input type="checkbox"/> 50% <input type="checkbox"/> 75% <input type="checkbox"/> 80% <input type="checkbox"/> 100%</p> <p>NEMA Rating IP Rating</p> <p><input type="checkbox"/> 4 <input type="checkbox"/> 4X <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 68</p> <p>ATEX (provide description) _____</p> <p>Auxiliary Limit Switches</p> <p><input type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6</p> <p>Miscellaneous Accessories - not all available in multiple installations</p> <p><input type="checkbox"/> Electronic Torque Switch <input type="checkbox"/> Friction Brake</p> <p><input type="checkbox"/> Battery Backup <input type="checkbox"/> Sequence Timer</p> <p><input type="checkbox"/> Interval Timer <input type="checkbox"/> Impulse Control Relay</p> <p><input type="checkbox"/> 2-Wire Control Relay</p> <p>Additional Items</p>
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Diaphragm

System Pressure: required PSI kPa Bar Nominal Size in cm Quantity

End Connector: Socket Flange Spigot SR Thread

Body Material: PVC CPVC PP LXTPVC Diaphragm: EPDM Viton PTFE/Viton PTFE/EPDM

Other Information

Actuation

<p>Pneumatic <input type="checkbox"/></p> <p><input type="checkbox"/> Double Acting</p> <p><input type="checkbox"/> Spring Return - Close</p> <p><input type="checkbox"/> Spring Return - Open</p> <p><input type="checkbox"/> 40 <input type="checkbox"/> 60 <input type="checkbox"/> 80 <input type="checkbox"/> 100 <input type="checkbox"/> 120</p> <p>Other Operating Pressure (kPa, Bar, etc.) <input type="text"/></p> <p>Override Type <u>2-1/2" and Larger</u></p> <p><input type="checkbox"/> None <input type="checkbox"/> Manual</p> <p>Override not available with all options.</p> <p>Visual Indicator</p> <p><input type="checkbox"/> Too Pointer <input type="checkbox"/> Flat Top <input type="checkbox"/> Dome</p> <p>Limit Switches</p> <p><input type="checkbox"/> SPDT <input type="checkbox"/> DPDT</p> <p><input type="checkbox"/> Mechanical <input type="checkbox"/> Proximity</p> <p>Signal Type</p> <p>Specify Voltage/Pressure <input type="text"/></p> <p>Positioner Type <input type="checkbox"/> Pneumatic <input type="checkbox"/> Elect. Pneu.</p> <p><input type="checkbox"/> Servo Positioning Control with Transmitter</p> <p><input type="checkbox"/> Servo Positioning Control - NO Transmitter</p> <p>Input <input type="checkbox"/> 0-20 mA <input type="checkbox"/> 4-20 mA <input type="checkbox"/> 0-5 VDC <input type="checkbox"/> 0-10 VDC</p> <p>Output <input type="checkbox"/> 0-20 mA <input type="checkbox"/> 4-20 mA <input type="checkbox"/> 0-5 VDC <input type="checkbox"/> 0-10 VDC</p> <p>NEMA Rating <input type="checkbox"/> 4 <input type="checkbox"/> 4X <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 68</p> <p>ATEX (provide description) <input type="text"/></p> <p>Solenoid Valve</p> <p><input type="checkbox"/> Standard <input type="checkbox"/> Stainless Steel</p> <p><input type="checkbox"/> 3&4 Way</p> <p><input type="checkbox"/> 12 VDC <input type="checkbox"/> 24 VDC <input type="checkbox"/> 115 VAC</p> <p><input type="checkbox"/> 12 VAC <input type="checkbox"/> 24 VAC <input type="checkbox"/> 230 VAC</p> <p>NEMA Rating <input type="checkbox"/> 4 <input type="checkbox"/> 4X <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 68</p> <p>ATEX (provide description) <input type="text"/></p>	<p>Electric <input type="checkbox"/></p> <p>Multi-Turn <input type="checkbox"/></p> <p><input type="checkbox"/> Servo Positioning Control with Transmitter</p> <p><input type="checkbox"/> Servo Positioning Control - NO Transmitter</p> <p>Signal Type <input type="checkbox"/> Current <input type="checkbox"/> Voltage</p> <p>Input <input type="checkbox"/> 0-20 mA <input type="checkbox"/> 4-20 mA <input type="checkbox"/> 0-5 VDC <input type="checkbox"/> 0-10 VDC</p> <p>Output <input type="checkbox"/> 0-20 mA <input type="checkbox"/> 4-20 mA <input type="checkbox"/> 0-5 VDC <input type="checkbox"/> 0-10 VDC</p> <p>Supply Power</p> <p><input type="checkbox"/> 12 VDC <input type="checkbox"/> 12 VAC <input type="checkbox"/> 120 VAC <input type="checkbox"/> 208 VAC</p> <p><input type="checkbox"/> 24 VDC <input type="checkbox"/> 24 VAC <input type="checkbox"/> 220 VAC <input type="checkbox"/> 480 VAC</p> <p><input type="checkbox"/> 230 VAC</p> <p>Frequency <input type="checkbox"/> 50 Hz <input type="checkbox"/> 60 Hz</p> <p>Phase <input type="checkbox"/> Single <input type="checkbox"/> Three</p> <p>Override</p> <p><input type="checkbox"/> Non-Declutchable <input type="checkbox"/> Declutchable</p> <p>Duty Cycle</p> <p><input type="checkbox"/> 25% <input type="checkbox"/> 40% <input type="checkbox"/> 50% <input type="checkbox"/> 75% <input type="checkbox"/> 80% <input type="checkbox"/> 100%</p> <p>NEMA Rating <input type="checkbox"/> 4 <input type="checkbox"/> 4X <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 9 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 68</p> <p>ATEX (provide description) <input type="text"/></p> <p>Auxiliary Limit Switches</p> <p><input type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6</p> <p>Miscellaneous Accessories - not all available in multiple installations</p> <p><input type="checkbox"/> Electronic Torque Switch <input type="checkbox"/> Friction Brake</p> <p><input type="checkbox"/> Battery Backup <input type="checkbox"/> Sequence Timer</p> <p><input type="checkbox"/> Interval Timer <input type="checkbox"/> Impulse Control Relay</p> <p><input type="checkbox"/> 2-Wire Control Relay</p> <p>Additional Items</p>
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Not all selections may be available.

NOTES

NOTES

NOTES

**Watch for
New Product Announcements
from
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