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Bidder:

Notes:

1. The City reserves the right to clarify, investigate, and request additional information to confirm the Bidder's claim regarding any data provided.
2. The Bid Evaluation is not based solely upon the information submitted on this form.
3. This form is made available to Bidders in both PDF and Microsoft Word format. In the event of a discrepancy between the forms, the PDF version will take precedence.
4. Complete "Bidder Response" section in full. Failure to complete or submit required information may result in disqualification of the complete Bid.
5. If insufficient space is provided, attach additional sheets with required information.

Item	Description	Bidder Response
1.0	**Published Price List**	
1.1	**General**	
1.1.1	As requested in B12, is a Published Price List provided?	☐ Yes, a Published Price List is provided: ☐ The price list is in Canadian Dollars. ☐ The price list is in US Dollars. ☐ The price list is in Euros. ☐ The price list is applicable for the following regions: _____ _____
1.1.2	Is the Published Price List comprehensive of the manufacturer's entire electric actuator offering, including all replacement parts?	☐ Yes ☐ No. Provide details below: _____
1.1.3	Is the Published Price List consistent with the prices and discounts indicated in Form B?	☐ Yes ☐ No. Provide details below: _____
2.0	**Product Lifecycle Guarantee**	
2.1	**Manufacturer Guarantee**	
2.1.1	Active sale and production guarantee	☐ No plans to remove the proposed product from active sale and/or production are in place. ☐ There are plans to remove the product for active sale and/or production, but plans call for: ☐ 10 or more years of active production. ☐ 5 or more years of active production. ☐ Less than 5 years of active production and sale. Additional Details:

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2.1.2	Product support guarantee	☐ The product is guaranteed to be operable, maintainable, and fully supported by the manufacturer, including availability of spare parts for the following duration after any of the proposed products are removed from active sale: ☐ 5 or more years. Years guaranteed: _____ ☐ <5 years (Not acceptable) Additional Details:
3.0	**Electric Actuator – General**	*The following information shall be applicable to all actuators proposed. Any exceptions shall be clearly indicated.*
3.1	**General**	
3.1.1	Manufacturer Name	
3.2	**Installed Base**	
3.2.1	Installed base of the manufacturer's electric actuator line in Manitoba (previous models may be included).	☐ Information not available ☐ < 100 units ☐ 100 – 999 units ☐ 1,000 – 9,999 units ☐ > 10,000 units
3.2.2	Installed base of the manufacturer's electric actuator line in North America (previous models may be included).	☐ Information not available ☐ < 1000 units ☐ 1000 – 9,999 units ☐ 10,000 – 99,999 units ☐ 100,000 – 999,999 units ☐ > 1,000,000 units
3.2.3	Global installed base of the manufacturer's electric actuator line (previous models may be included).	☐ Information not available ☐ < 1000 units ☐ 1000 – 9,999 units ☐ 10,000 – 99,999 units ☐ 100,000 – 999,999 units ☐ > 1,000,000 units
3.2.4	Global installed base of the proposed model series.	☐ Information not available ☐ < 1000 units ☐ 1000 – 9,999 units ☐ 10,000 – 99,999 units ☐ 100,000 – 999,999 units ☐ > 1,000,000 units

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3.3	**Power Supply**	
3.3.1	Identify the available supply voltages available for electromechanical motor controllers.	☐ 115V, 1Ø, 60 Hz ☐ 120V, 1Ø, 60 Hz ☐ 115/120V, 1Ø, 60 Hz (dual rated) ☐ 200V, 1Ø, 60 Hz ☐ 208V, 1Ø, 60 Hz ☐ 200/208V, 1Ø, 60 Hz (dual rated) ☐ 200V, 3Ø, 60 Hz ☐ 208V, 3Ø, 60 Hz ☐ 200/208V, 3Ø, 60 Hz (dual rated) ☐ 575V, 3Ø, 60 Hz ☐ 600V, 3Ø, 60 Hz ☐ 575/600V, 3Ø, 60 Hz (dual rated)
3.3.2	Identify the available supply voltages available for solid-state motor controllers.	☐ 115V, 1Ø, 60 Hz ☐ 120V, 1Ø, 60 Hz ☐ 115/120V, 1Ø, 60 Hz (dual rated) ☐ 200V, 1Ø, 60 Hz ☐ 208V, 1Ø, 60 Hz ☐ 200/208V, 1Ø, 60 Hz (dual rated) ☐ 200V, 3Ø, 60 Hz ☐ 208V, 3Ø, 60 Hz ☐ 200/208V, 3Ø, 60 Hz (dual rated) ☐ 575V, 3Ø, 60 Hz ☐ 600V, 3Ø, 60 Hz ☐ 575/600V, 3Ø, 60 Hz (dual rated)
3.3.3	Identify the power source for the anti-condensation heater.	☐ Integral to the actuator power supply, up to and including 575/600V. ☐ Seperate 120 VAC power connection. ☐ Other: Other Details: _____
3.4	**Actuator Sensing**	
3.4.1	Position Sensing Technology	☐ Absolute Position Encoder ☐ Relative / Incremental Position Encoder ☐ With battery backup ☐ Without battery backup ☐ Other: Other Details: _____

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3.4.2	How is torque sensed in the provided actuators?	☐ Electromechanical sliding worm ☐ Piezo Thrust Sensor ☐ Hall Effect Torque Sensor ☐ Motor voltage and current ☐ Motor speed, voltage and temperature ☐ Other: Other Details: _____
3.4.3	Torque Setting Range:	_____ % to 100% rated torque
3.4.4	Multiple Torque Settings:	☐ Separate open and close torque settings ☐ One torque setting for both open and close
3.5	**Protection Functions**	
3.5.1	Does the actuator have protection against phase loss and or incorrect phase sequence?	☐ Yes ☐ No Additional Information: _____
3.5.2	Can the actuator trip upon exceeding a torque threshold (obstructed valve)?	☐ Yes ☐ No Additional Information: _____
3.5.3	Does the actuator have a configurable feature to override the torque limit for unseating sticky valves?	☐ Yes ☐ No Additional Information: _____
3.5.4	Can the actuator trip upon not measuring valve movement after a pre-determined time? (Jammed Valve)	☐ Yes ☐ No Additional Information: _____
3.5.5	Can the actuator automatically initiate a forward / reverse cycle to free a jammed valve?	☐ Yes ☐ No Additional Information: _____

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3.5.6	Describe the motor thermal protection provided.	☐ RTD Qty: _____ ☐ Thermistor Qty: _____ ☐ Other: Type: _____ Qty: _____ Additional Information: _____
3.5.7	Can the actuator prevent instantaneous reversal, by forcing a delay between opening and closing operations, and therefore reducing mechanical stress on the actuator?	☐ Yes ☐ No Additional Information: _____
3.5.8	Is an under-torque alarm available?	☐ Yes ☐ No
3.6	**Noise Level**	
3.6.1	Identify the highest noise level the actuators proposed.	☐ Unknown ☐ <= 75 dB(A) @ 1 m. ☐ <= 80 dB(A) @ 1 m. ☐ <= 85 dB(A) @ 1 m. ☐ > 85 dB(A) @ 1 m.
3.7	**Base Control and Monitoring**	
3.7.1	Indicate the isolation of the discrete remote control inputs from the control circuitry.	☐ Electromechanical (relay) ☐ Optical isolation ☐ No isolation ☐ Other – describe below:
3.7.2	Identify available remote control voltages	☐ 24 VDC ☐ 120 VAC
3.7.3	Indicate the availability and functionality of status contacts in the base actuator proposed.	Number of configurable form C contacts: _____ Number of fixed function form C contacts: _____ Number of configurable form A/B contacts: _____ Number of fixed function form A/B contacts: _____

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3.7.4	Indicate the isolation of the status contacts (outputs) from the control circuitry.	☐ Electromechanical (relay) ☐ Optical isolation ☐ No isolation ☐ Other – describe below:
3.7.5	Contact Current Rating at 120 VAC	☐ 0.5 A ☐ > 0.5 A and <= 1.0 A ☐ > 1 A and <= 2 A ☐ > 2 A and <= 3 A ☐ > 3 A and < 5 A ☐ >= 5 A
3.8	**Display / Controls**	
3.8.1	Indicate the items which are available on the actuator local display.	☐ Current position ☐ Current torque Other Details: _____
3.8.2	Is the display and control rotatable to ensure the correct orientation for various actuator mounting configurations?	☐ Yes, rotatable in the field. ☐ Yes, rotatable at the factory at the time of order. ☐ Not rotatable. Other Details: _____
3.8.3	Is the display and associated position indication available during a loss of the main power?	☐ No. ☐ Yes, via internal battery. ☐ Yes, via external battery. ☐ Other – describe below:
3.8.4	Identify the status LEDs available on the display, separate from the LCD display.	☐ Open ☐ Closed ☐ Intermediate Position ☐ Motor overheat ☐ Torque fault – open and/or close ☐ Bluetooth connection ☐ PROFIBUS communication ☐ Other – describe below:

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3.8.5	Identify the color of the status LEDs.	Open ☐ Not Available ☐ Green ☐ Configurable Green/Red ☐ Red Closed ☐ Not Available ☐ White ☐ Blue ☐ Configurable Green/Red/Yellow ☐ Yellow ☐ Red ☐ Green Intermediate ☐ Not Available ☐ Blue ☐ White ☐ Configurable Green/Red/Yellow ☐ Yellow ☐ Red ☐ Green Fault / Alarm ☐ Not Available ☐ Red ☐ White ☐ Blue ☐ Configurable Green/Red/Yellow ☐ Yellow ☐ Green
3.9	**Configuration**	
3.9.1	Indicate how the actuator is configured	☐ From the display ☐ Manufacturer handheld configuration tool ☐ Infrared ☐ Bluetooth ☐ Other ☐ Smartphone application ☐ Infrared ☐ Bluetooth ☐ Other ☐ Laptop software ☐ Bluetooth ☐ Wired ☐ Other ☐ PROFIBUS Interface Other Details: _____

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3.9.2	Indicate how the actuator is locally configured in hazardous locations	☐ From the display ☐ Manufacturer handheld configuration tool – approved for hazardous locations ☐ Other Other Details: _____
3.9.3	Indicate how the actuator configuration is stored.	☐ Stored in non-volatile memory. ☐ Stored in battery-backed memory. Other Details: _____
3.10	**Safety Applications**	
3.10.1	Does the actuator have a safety rated emergency shutdown feature? This feature may be optional and is not required to be provided in the base price.	☐ Yes, describe below. ☐ SIL 1 ☐ SIL 2 ☐ No Approvals: _____ Additional Information: _____
3.11	**Data Logging**	
3.11.1	Data logging storage	☐ Not available. ☐ Battery backed memory. ☐ Non-volatile memory.
3.11.2	Display of logged data is available via:	☐ Local display ☐ Configuration tool, later downloaded to PC. ☐ Smartphone app ☐ Laptop application ☐ PROFIBUS interface
3.11.3	The following valve torque profiles are logged, stored within the actuator and available for viewing	☐ Commissioning open / close ☐ Last _____ actuator open / close operations. ☐ Other: Other Details: _____
3.11.4	The following valve statistics are logged and available	☐ Number of operations ☐ Peak torque ☐ Other: Other Details: _____

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3.11.5	Are the actuator faults / trips logged and available?	☐ No ☐ Yes ☐ All faults and alarms, with the date and time ☐ Partial list of faults and alarms, with the date and time ☐ Partial list of faults and alarms, without the date and time ☐ Other: Other Details: _____
3.11.6	Maximum number of faults / trips logged?	☐ < 100 ☐ 100 - 500 ☐ 501 – 1000 ☐ 1001 - 2000 ☐ 2001 - 4000 ☐ > 4000
3.12	**Network Communication**	
3.12.1	Indicate Network Communication Proposed	☐ PROFIBUS DP (Select version below) ☐ V0 (Not acceptable) ☐ V1 ☐ V2
3.12.2	Indicate Optional Network Communication Available (Without external gateway)	☐ PROFIBUS PA ☐ Foundation Fieldbus
3.12.3	PROFIBUS Remote Control Capability	☐ Open ☐ Close ☐ Stop ☐ Position Setpoint ☐ Reset ☐ Emergency operation command
3.12.4	PROFIBUS Remote Status/Feedback Capability	☐ Open / Close ☐ Current Position ☐ Current Torque ☐ Local / Remote ☐ Running ☐ Local Handwheel Operation ☐ Torque Tripped ☐ Motor Protection Tripped ☐ Power / Phase Failure

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3.12.5	Behaviour on loss of communication	☐ Fixed – Actuator will: ☐ Continue last command ☐ Stop and hold position ☐ Close ☐ Open ☐ Configurable – Actuator can be configured to: ☐ Continue last command ☐ Stop and hold position ☐ Close ☐ Open
3.13	**Enclosure**	
3.13.1	Enclosure ratings on all proposed actuators and included on the Form B prices.	☐ NEMA 4 ☐ NEMA 4X ☐ NEMA 6 ☐ IP 68 Submergence head: _____ m Submergence time: _____ hours
3.13.2	Is the wiring terminal compartment sealed from the remainder of the actuator?	☐ Yes ☐ No Other details: _____
3.13.3	Actuator enclosure material	☐ Stainless Steel ☐ Cast Aluminum ☐ Ductile Iron ☐ Other: Other details: _____
3.13.4	Are the wiring compartment field terminals removable from the actuator to allow for rapid actuator replacement?	☐ Yes – included in proposal ☐ Not included in the proposal, but available as an option. ☐ Not available. Additional details: _____

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3.14	**Gearboxes**	
3.14.1	Gearbox enclosure material	☐ Stainless Steel ☐ Aluminum ☐ Iron
3.15	**Multi-Turn Actuators**	
3.15.1	Maximum available torque, direct (no external gearbox), @ ~20 rpm, for any standard model within the proposed model series.	☐ < 1800 Nm ☐ >= 1800 Nm and < 2000 Nm ☐ >= 2000 Nm and < 2200 Nm ☐ >= 2200 Nm and < 2400 Nm ☐ >= 2400 Nm and < 2600 Nm ☐ >= 2600 Nm
3.15.2	Encoder maximum number of detectable turns. If this is different depending on the model, indicate the most common standard configuration.	Maximum: _____ turns
3.16	**Modulating Multi-Turn Actuators**	
3.16.1	Maximum available number of starts-per-hour	_____ starts / hour
3.17	**Quarter-Turn Actuator**	
3.17.1	Maximum available torque - direct (no external gearbox), for any standard model within the proposed model series.	_____ Nm
3.17.2	Minimum available rated torque, for any standard model within the proposed model series.	_____ Nm
3.18	**Modulating Quarter-Turn Actuator**	
3.18.1	Maximum available number of starts-per-hour	_____ starts / hour
3.19	**Maintenance and Service**	
3.19.1	Lubrication requirements of actuator	☐ No lubrication required – sealed for life. ☐ Every 1 - 2 years ☐ Every 3 years ☐ Every 4 years ☐ Every 5 years ☐ > 5 years
3.19.2	Lubrication requirements of gearboxes	☐ No lubrication required – sealed for life. ☐ Every 1 - 2 years ☐ Every 3 years ☐ Every 4 years ☐ Every 5 years ☐ > 5 years

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3.19.3	Identify other recommended maintenance requirements and frequency	
3.19.4	Estimated actuator motor replacement time from the time the trained service technician arrives on site with the part.	☐ < 1 hour ☐ 1 - 2 hours ☐ 3 - 4 hours ☐ 5 - 8 hours ☐ > 8 hours
3.19.5	Estimated display unit replacement time from the time the trained service technician arrives on site with the part.	☐ < 1 hour ☐ 1 - 2 hours ☐ 3 - 4 hours ☐ 5 - 8 hours ☐ > 8 hours
3.20	**Deficiencies and Additional Features**	
3.20.1	Identify any deficiencies where the proposed products do not meet the specifications or the intent of the specifications. Do not include any item clearly identified elsewhere on Form P.	
3.20.2	Identify any additional features proposed that: • significantly exceed the specified requirements, • would be of benefit to the City of Winnipeg; and • are included in the price in Form B. Do not include any item identified elsewhere on Form P.	

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4.0	**Specific Proposed Actuator Details**	
4.1	**Electric Actuator – Type 1, Multi-Turn, On/Off Duty**	
4.1.1	Complete actuator model number	
4.1.2	For the actuator proposed, identify the actual opening / closing time	_____ seconds
4.1.3	What is the rated torque?	_____ N-m
4.1.4	Motor Duty Rating – Minutes Per Hour	☐ Unknown ☐ < 15 min / hour ☐ 15 min / hour ☐ 30 min / hour ☐ Other: _____ min / hour
4.1.5	Motor Duty Rating – Starts Per Hour	☐ Unknown ☐ < 30 starts / hour ☐ 30 starts / hour ☐ 60 starts / hour ☐ > 60 starts / hour ☐ Other: _____ starts / hour
4.1.6	Motor Duty Rating – % of Rated Actuator Torque	☐ < 30% ☐ 30-35% ☐ 36-50% ☐ > 50%
4.1.7	Manual handwheel rim-pull at average running torque	_____N
4.1.8	Temperature Rating	_____ ℃ to _____ ℃
4.1.9	Supply Voltage	☐ 575V, 3Ø, 60 Hz ☐ 208V, 3Ø, 60 Hz ☐ 200V, 3Ø, 60 Hz ☐ 115/120V, 1Ø, 60 Hz ☐ Other - details below:

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4.1.10	Motor Control	☐ Solid State ☐ Electromechanical contactor ☐ Other - details below:
4.1.11	Actuator Design Life	_____ turns
4.1.12	Encoder resolution	_____ degrees of actuator output
4.1.13	Identify any items where the proposed product does not meet the specifications or the intent of the specifications.	
4.2	**Electric Actuator – Type 2, Multi-Turn, On/Off Duty**	
4.2.1	Complete actuator model number	
4.2.2	For the actuator proposed, identify the actual opening / closing time	_____ seconds
4.2.3	What is the rated output thrust?	_____ kN
4.2.4	Motor Duty Rating – Minutes Per Hour	☐ Unknown ☐ < 15 min / hour ☐ 15 min / hour ☐ 30 min / hour ☐ Other: _____ min / hour
4.2.5	Motor Duty Rating – Starts Per Hour	☐ Unknown ☐ < 30 starts / hour ☐ 30 starts / hour ☐ 60 starts / hour ☐ > 60 starts / hour ☐ Other: _____ starts / hour
4.2.6	Motor Duty Rating – % of Rated Actuator Torque	☐ < 30% ☐ 30-35% ☐ 36-50% ☐ > 50%

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4.2.7	Gearbox details	☐ Gearbox is not proposed – the actuator will directly actuate the valve/gate. ☐ Gearbox is provided – details below Model number: _____ Ratio: _____
4.2.8	Manual handwheel rim-pull at average running torque	_____N
4.2.9	Temperature Rating	_____ ℃ to _____ ℃
4.2.10	Supply Voltage	☐ 575V, 3Ø, 60 Hz ☐ Other - details below:
4.2.11	Motor Control	☐ Solid State ☐ Electromechanical contactor ☐ Other - details below:
4.2.12	Actuator Design Life	_____ turns
4.2.13	Gearbox Design Life	☐ Gearbox is not proposed. ☐ Gearbox design life is unknown. ☐ Gearbox design life indicated below _____ output turns @ _____ N-m Other:
4.2.14	Encoder resolution	_____ degrees of actuator output
4.2.15	Identify any items where the proposed product does not meet the specifications or the intent of the specifications.	
4.3	**Electric Actuator – Type 3, Multi-Turn, Modulating Duty**	
4.3.1	Complete actuator model number	
4.3.2	For the actuator proposed, identify the actual opening / closing time	_____ seconds

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4.3.3	What is the rated torque?	_____ N-m
4.3.4	Motor Duty Rating	☐ Unknown ☐ 25% ☐ 33% ☐ 50% ☐ Other: _____
4.3.5	Motor Duty Rating – Starts Per Hour	☐ Unknown ☐ 1200 starts / hour ☐ Other: _____ starts / hour
4.3.6	Motor Duty Rating – % of Rated Actuator Torque	☐ < 30% ☐ 30-35% ☐ 36-50% ☐ > 50%
4.3.7	Manual handwheel rim-pull at average running torque	_____N
4.3.8	Temperature Rating	_____ ℃ to _____ ℃
4.3.9	Supply Voltage	☐ 575V, 3Ø, 60 Hz ☐ 208V, 3Ø, 60 Hz ☐ 200V, 3Ø, 60 Hz ☐ 115/120V, 1Ø, 60 Hz ☐ Other - details below:
4.3.10	Motor Control	☐ Solid State ☐ Electromechanical contactor ☐ Other - details below:
4.3.11	Actuator Design Life	_____ starts
4.3.12	Encoder resolution	_____ degrees of actuator output
4.3.13	Identify any items where the proposed product does not meet the specifications or the intent of the specifications.	

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4.4	**Electric Actuator – Type 4, Multi-Turn, Modulating Duty**	
4.4.1	Complete actuator model number	
4.4.2	For the actuator proposed, identify the actual opening / closing time	_____ seconds
4.4.3	What is the rated output thrust?	_____ kN
4.4.4	Motor Duty Rating	☐ Unknown ☐ 25% ☐ 33% ☐ 50% ☐ Other: _____
4.4.5	Motor Duty Rating – Starts Per Hour	☐ Unknown ☐ 1200 starts / hour ☐ Other: _____ starts / hour
4.4.6	Motor Duty Rating – % of Rated Actuator Torque	☐ < 30% ☐ 30-35% ☐ 36-50% ☐ > 50%
4.4.7	Gearbox details	☐ Gearbox is not proposed – the actuator will directly actuate the valve/gate. ☐ Gearbox is provided – details below Model number: _____ Ratio: _____
4.4.8	Manual handwheel rim-pull at average running torque	_____N
4.4.9	Temperature Rating	_____ ℃ to _____ ℃
4.4.10	Supply Voltage	☐ 575V, 3Ø, 60 Hz ☐ 208V, 3Ø, 60 Hz ☐ 200V, 3Ø, 60 Hz ☐ Other - details below:

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4.4.11	Motor Control	☐ Solid State ☐ Electromechanical contactor ☐ Other - details below:
4.4.12	Actuator Design Life	_____ starts
4.4.13	Gearbox Design Life	☐ Gearbox is not proposed. ☐ Gearbox design life is unknown. ☐ Gearbox design life indicated below _____ output turns @ _____ N-m Other:
4.4.14	Encoder resolution	_____ degrees of actuator output
4.4.15	Identify any items where the proposed product does not meet the specifications or the intent of the specifications.	
4.5	**Electric Actuator – Type 5, Quarter-Turn, On/Off Duty**	
4.5.1	Complete actuator model number	
4.5.2	For the actuator proposed, identify the actual opening / closing time	_____ seconds
4.5.3	What is the rated torque?	_____ N-m
4.5.4	Motor Duty Rating – Minutes Per Hour	☐ Unknown ☐ < 15 min / hour ☐ 15 min / hour ☐ 30 min / hour ☐ Other: _____ min / hour
4.5.5	Motor Duty Rating – Starts Per Hour	☐ Unknown ☐ < 30 starts / hour ☐ 30 starts / hour ☐ 60 starts / hour ☐ > 60 starts / hour ☐ Other: _____ starts / hour

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4.5.6	Motor Duty Rating – % of Rated Actuator Torque	☐ < 30% ☐ 30-35% ☐ 36-50% ☐ > 50%
4.5.7	Manual handwheel rim-pull at average running torque	_____N
4.5.8	Temperature Rating	_____ ℃ to _____ ℃
4.5.9	Supply Voltage	☐ 575V, 3Ø, 60 Hz ☐ 208V, 3Ø, 60 Hz ☐ 200V, 3Ø, 60 Hz ☐ 115/120V, 1Ø, 60 Hz ☐ Other - details below:
4.5.10	Motor Control	☐ Solid State ☐ Electromechanical contactor ☐ Other - details below:
4.5.11	Actuator Design Life	_____ cycles (on-off-on)
4.5.12	Encoder resolution	_____ degrees of actuator output
4.5.13	Identify any items where the proposed product does not meet the specifications or the intent of the specifications.	
4.6	**Electric Actuator – Type 6, Quarter-Turn, On/Off Duty**	
4.6.1	Complete actuator model number	
4.6.2	For the actuator proposed, identify the actual opening / closing time	_____ seconds
4.6.3	What is the rated torque?	_____ N-m

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4.6.4	Motor Duty Rating – Minutes Per Hour	☐ Unknown ☐ < 15 min / hour ☐ 15 min / hour ☐ 30 min / hour ☐ Other: _____ min / hour
4.6.5	Motor Duty Rating – Starts Per Hour	☐ Unknown ☐ < 15 starts / hour ☐ 15 starts / hour ☐ 30 starts / hour ☐ 60 starts / hour ☐ > 60 starts / hour ☐ Other: _____ starts / hour
4.6.6	Motor Duty Rating – % of Rated Actuator Torque	☐ < 30% ☐ 30-35% ☐ 36-50% ☐ > 50%
4.6.7	Gearbox details	☐ Gearbox is not proposed – the actuator will directly actuate the valve/gate. ☐ Gearbox is provided – details below Model number: _____ Ratio: _____
4.6.8	Manual handwheel rim-pull at average running torque	_____N
4.6.9	Temperature Rating	_____ ℃ to _____ ℃
4.6.10	Supply Voltage	☐ 575V, 3Ø, 60 Hz ☐ Other - details below:
4.6.11	Motor Control	☐ Solid State ☐ Electromechanical contactor ☐ Other - details below:
4.6.12	Actuator Design Life	_____ cycles (on-off-on)

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4.6.13	Gearbox Design Life	☐ Gearbox is not proposed. ☐ Gearbox design life is unknown. ☐ Gearbox design life indicated below _____ output turns @ _____ N-m Other:
4.6.14	Encoder resolution	_____ degrees of actuator output
4.6.15	Identify any items where the proposed product does not meet the specifications or the intent of the specifications.	
4.7	**Electric Actuator – Type 7, Quarter-Turn, Modulating Duty**	
4.7.1	Complete actuator model number	
4.7.2	For the actuator proposed, identify the actual opening / closing time	_____ seconds
4.7.3	What is the rated torque?	_____ N-m
4.7.4	Motor Duty Rating	☐ 25% ☐ 33% ☐ 50% ☐ Other: _____
4.7.5	Motor Duty Rating – Starts Per Hour	☐ Unknown ☐ 1200 starts / hour ☐ Other: _____ starts / hour
4.7.6	Motor Duty Rating – % of Rated Actuator Torque	☐ < 30% ☐ 30-35% ☐ 36-50% ☐ > 50%
4.7.7	Manual handwheel rim-pull at average running torque	_____N
4.7.8	Temperature Rating	_____ ℃ to _____ ℃

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4.7.9	Supply Voltage	☐ 575V, 3Ø, 60 Hz ☐ 208V, 3Ø, 60 Hz ☐ 200V, 3Ø, 60 Hz ☐ 115/120V, 1Ø, 60 Hz ☐ Other - details below:
4.7.10	Motor Control	☐ Solid State ☐ Electromechanical contactor ☐ Other - details below:
4.7.11	Actuator Design Life	starts
4.7.12	Encoder resolution	_____ degrees of actuator output
4.7.13	Identify any items where the proposed product does not meet the specifications or the intent of the specifications.	
4.8	**Electric Actuator – Type 8, Quarter-Turn, Modulating Duty**	
4.8.1	Complete actuator model number	
4.8.2	For the actuator proposed, identify the actual opening / closing time	_____ seconds
4.8.3	What is the rated torque?	_____ N-m
4.8.4	Motor Duty Rating	☐ 25% ☐ 33% ☐ 50% ☐ Other: _____
4.8.5	Motor Duty Rating – Starts Per Hour	☐ Unknown ☐ 600 starts / hour ☐ 1200 starts / hour ☐ Other: _____ starts / hour
4.8.6	Motor Duty Rating – % of Rated Actuator Torque	☐ < 30% ☐ 30-35% ☐ 36-50% ☐ > 50%

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4.8.7	Gearbox details	☐ Gearbox is not proposed – the actuator will directly actuate the valve/gate. ☐ Gearbox is provided – details below Model number: _____ Ratio: _____
4.8.8	Manual handwheel rim-pull at average running torque	_____N
4.8.9	Temperature Rating	_____ ℃ to _____ ℃
4.8.10	Supply Voltage	☐ 575V, 3Ø, 60 Hz ☐ 208V, 3Ø, 60 Hz ☐ 200V, 3Ø, 60 Hz ☐ Other - details below:
4.8.11	Motor Control	☐ Solid State ☐ Electromechanical contactor ☐ Other - details below:
4.8.12	Actuator Design Life	_____ starts
4.8.13	Gearbox Design Life	☐ Gearbox is not proposed. ☐ Gearbox design life is unknown. ☐ Gearbox design life indicated below _____ output turns @ _____ N-m Other:
4.8.14	Encoder resolution	_____ degrees of actuator output
4.8.15	Identify any items where the proposed product does not meet the specifications or the intent of the specifications.	

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5.0	**Configuration Tools – Hardware and Software**		
5.1	**Field Configuration Tool – Hardware (Non-Mandatory)**		
5.1.1	Provide description and model number of all provided configuration hardware. One item proposed on the right shall be included with each unit indicated on Form B, Item 9.	**Description** _____ _____ _____	**Model Number** _____ _____ _____
5.2	**Field Configuration Tool - Software**		
5.2.1	Provide description and model number of all provided configuration software. One item proposed on the right shall be included with each unit indicated on Form B, Item 10.	**Description** _____ _____ _____	**Model Number** _____ _____ _____
5.2.2	Identify smartphone app compatibility	☐ Not provided ☐ Windows 8 ☐ Android ☐ Apple ☐ Other Other Details: _____	
5.2.3	Identify PROFIBUS configuration files provided.	☐ Not provided (Not acceptable) ☐ GSD ☐ EDD ☐ DTM ☐ Other: Other Details: _____	

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6.0	**Warranty**	
6.1	**General**	
6.1.1	Actuator Warranty Length	☐ One-year (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner) – Minimum Specified ☐ Two years or longer from the date of delivery. Indicate length below: _____ years ☐ Two years or longer (Beginning on the date of successful commissioning or 6 months after delivery, whichever comes sooner). Indicate length below: _____ years
7.0	**Service and Support**	
7.1	**General**	
7.1.1	Describe Bidder's relationship with the manufacturer.	☐ Bidder is the manufacturer ☐ Bidder is a distributor ☐ Other: _____
7.1.2	Proposed Bidder account manager:	Name: _____ Responsibilities: _____ Relevant Experience: _____ Certifications: _____
7.1.3	Bidder account manager's hours of business	
7.2	**Local Support**	
7.2.1	Describe who will be providing local support for the proposed products, and where they are located.	
7.2.2	Local support hours of business	

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7.2.3	Local support personnel	Name: _____ Responsibilities: _____ Relevant Experience: _____ Certifications: _____ Years of experience with proposed products: _____ Name: _____ Responsibilities: _____ Relevant Experience: _____ Certifications: _____ Years of experience with proposed products: _____
7.3	**Manufacturer Support Services**	
7.3.1	Is manufacturer telephone technical support available?	☐ Yes – complete technical support ☐ Limited technical support (complete details below) ☐ Not available. Details: _____
7.3.2	Availability of telephone technical support?	☐ 24/7 ☐ 8am – 4:30pm CST ☐ Other (complete below) Other: _____
7.4	**Delivery**	
7.4.1	Proposed delivery timeframe for electric actuators from the date of order, for an order of up to ten (10) electric actuators.	Average: _____ calendar days Maximum: _____ calendar days (Not to exceed 120)

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7.5	**Spare Parts**	
7.5.1	Identify the closest location where comprehensive spare parts for the proposed actuators are located.	☐ Winnipeg ☐ Manitoba ☐ Canada ☐ United States ☐ Other (complete below) _____ The proposed spare parts location is: ☐ Currently in place. ☐ Will be in place within 1 year of Contract award.
7.6	**On-Site Training Session – Operation and Basic Maintenance**	
7.6.1	Who is proposed to perform the training?	Name: _____
7.6.2	How many years of experience does the proposed trainer have with the manufacturer's actuators?	Years of Experience: _____ years
7.6.3	List up to five customers for whom the proposed trainer has performed comparable training?	1. _____ 2. _____ 3. _____ 4. _____ 5. _____
7.7	**On-Site Training Session – Detailed Configuration and Service**	
7.7.1	Who is proposed to perform the training?	Name: _____
7.7.2	How many years of experience does the proposed trainer have with the manufacturer's actuators?	Years of Experience: _____ years
7.7.3	List up to five customers for whom the proposed trainer has performed comparable training?	1. _____ 2. _____ 3. _____ 4. _____ 5. _____