

## Frequently asked questions...

List of frequently asked questions for Valworx electric actuated valves.

Question	Answer
Can I use a Valworx electric actuated valve outside?	Valworx electric actuators are designed with weatherproof enclosures and offer a degree of protection against indoor and outdoor applications - see enclosure ratings. Ensure actuators operate within the maximum and minimum temperature specifications. Protection from sun, rain, ice and snow will generally extend the life of the actuator. Refer to technical bulletin "Enclosure Types and IP ratings".
Can I mount the electric actuated butterfly valve in a vertical pipe line?	The electric actuated butterfly valve can be mounted in any orientation. Prefer that the actuator is not mounted upside down.
What is the maximum allowable fluid velocity?	Metal valves: 5 to 10 feet/second, closer to 5ft/sec is better PVC valves: < 5 feet/second
When wiring the position confirmation switches on 5610 series actuators, do I have to use the main power to actuator?	No, limit switches are dry contact, use any voltage within the published limits of switches - see IOM instructions.
What size electric cord do I need for the black position confirmation switch DIN plug on the 5610 series actuator?	Max. O.D. for wiring cable is 5mm, see IOM 5610 instructions.
Why does my 5610 series actuator only turn in one direction?	Refer to 5610 troubleshooting guide.
Do you have a DPS and BSR kit for the 5616 series electric actuator?	Yes, see 5616 series actuator accessories tab or category.
What is the ISO DIN cable connector (large gray connector) on 5610 actuators used for? The small Sub-micro cable connector (black)?	ISO cable is for power connection (Gray plug). Sub-micro cable is for position confirmation switches. See IOM instructions.
What is the maximum allowable temperature of the fluid media?	Refer to product specifications for each individual item.
What is the 5610 series DPS kit used for?	Using a 4-20mA or 0-10V signal input, the valve ball or disc can be positioned anywhere between 0-90° (closed to full open), changing the flow rate from 0-100%. See technical bulletin "How does it work?"
What is the 5610 series BSR failsafe option?	The BSR battery spring return option will move the valve to a fail closed or open position with loss of main power (this can be set-up at the factory, or in the field). Actuator uses an industrial self charging battery installed under the red cover.
Do you have explosion proof electric actuators?	Yes. Our 5818 actuator series explosion proof actuators are rated for UL Class I Div I applications.
I have a Valworx electric actuated ball valve, can I change the ball valve to a different size?	This might be possible. Check with customer service.
Can I use the Valworx electric actuated valve with natural gas? Propane gas?	Valworx valves do not have any agency approvals for use with propane or natural gas.
Can you tell me if your valve will work in my application?	Due to the many conditions that affect the valve choice, including, but not limited to; pressure, temperature, chemical mix, material compounding and environment, the user through its own analysis and testing is solely responsible for making the final selection. We will be happy to clarify any questions you might have about the specifications of any Valworx product.
Can I change my electric actuator to an air actuator?	This might be possible. Check with customer service.

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How does the 5618 series electric actuator with EPS positioner work?	Refer to technical bulletin “How does it work? 5618 Electric Actuator with EPS positioner”.
Can you supply an electric actuated valve for higher temperatures than what is listed on your website?	No, the maximum temperature ratings for our valves are listed on the webstore. Check the product specifications for maximum allowable temperatures.
Can you supply an electric actuated valve good for higher pressures than what you have listed on your webstore?	No, the maximum pressures for our valves are listed on the webstore. Check the product specifications and pressure-temperature chart for maximum allowable pressures.
What type of 3-way switch do I need to operate the Valworx electric actuator?	Generally a 3-way 2-position switch is used to operate the electric actuators.
My 5610 series electric actuated valve will close, but will not open?	Refer to 5610 troubleshooting guide
My actuated valve with 5610/5615/5616 series actuator will not work?	Refer to 5610/5616 troubleshooting guide
My new 5618 series actuator will not open or close?	Since all actuators are 100% functionally tested prior to shipping, most likely there is a wiring issue. Refer to 5618 troubleshooting guide.
Can you confirm the Valworx valve will work with my fluid media?	Many conditions can affect the valve choice, including, but not limited to; pressure, temperature, chemical mix, material compounding and environment. The user through its own analysis and testing is solely responsible for making the final selection. Our “Media Compatibility Guide” maybe helpful in determining material compatibility. Contacting the fluid manufacturer may also be helpful in determining fluid compatibility.
Do you offer electric actuated valves with a failsafe option?	We offer a BSR - Battery Spring Return option for our 5610/5615/5616 series electric actuators (actuators with red cover). This option will return the valve to a fail closed (or open) position with loss of main power via industrial self charging batteries. Air actuated spring return valves may also be a good option when failsafe operation is required.
My 5610 series actuator stopped working and the LED is blinking?	Refer to 5610/5615/5616 troubleshooting guide
Why do I need to maintain power to the electric actuator either in the open or closed position?	Maintain power to the actuator either in the open or closed position to activate the internal anti-condensation heater (when using actuators with heaters).
Where can I find the pressure-temperature charts for your valves?	The P/T (pressure-temperature) charts can be found in the product data sheet.
Do you offer any actuators that can be controlled digitally?	Yes, we offer a Modbus accessory that can be installed in 5618/5818 actuator models at the factory. This allows control with Modbus programming protocol, allowing for larger runs with a single master driver.
What is the difference between the 5610 and 5618 series actuators?	Refer to “Product Comparison Guide” under technical bulletins
Can I change my electric actuated valve from normally closed to normally open?	There shouldn't be any need to change, since electric actuated valves are either open or closed determined by the input control signal.
Can I change the fail condition of the 5618 series actuator with EPS positioner?	The 5618 series actuator with EPS positioner will stop-in-place with loss of main power. The actuator can be setup to fail in-place, closed or open with loss of the control signal, as long as main power is maintained.

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Can I reverse the input control signal of the DPS/EPs modulating actuators?	Yes, this is possible, and can be done at the factory. Reversing the signal makes 20 mA=closed, 4 mA=open. If this needs to be done in the field, please contact Valworx for instructions.
Do you have any 12 volt actuator/actuated valve options?	Yes, it would require a custom assembly, but most valves are available in a 12 Volt option - please contact customer support for assistance.
What is the part number for a High Temperature kit?	Go to the product page for the actuated valve and look under the accessories tab.
I am not too familiar with valves, can you tell me what type of valve I need for my application?	Due to the many conditions that affect choosing a valve, including, but not limited to; pressure, temperature, chemical mix, material compounding and environment, the user will need to determine the best type valve for their application. We offer a large selection of actuated ball valves and butterfly valves. If you determine these type valves might work in your application, we will be happy to clarify any questions you might have about the specifications of any Valworx product.
Do you have any electric actuated valves with faster cycle times?	Yes, some Valworx actuators in the 5618 series are available as a "Quick Close" accessory option. This allows for a full cycle at a fraction of the normal speed. If even faster cycle times are required, you might look at our air actuated valves (cycle time typically 1-1.5 seconds).
Do you have prewired DIN cord sets for your actuators?	We do offer prewired DIN cord sets for 5610/5615/5616 series electric actuators, as well as solenoid valves. We also offer solutions for the 5618 series electric actuators. Refer to electric actuator accessories categories.
Can I add a High Temperature kit to an existing Valworx electric actuated valve?	Yes, you would need to select a kit matching both the actuator and valve mounting patterns. See actuator accessories, or for assemblies, refer to the Commonly Purchased Together section at the bottom of each item page.
Will all Valworx valves work with vacuum?	Yes, in most cases. Check the valve specification for vacuum rating, if listed.
Can you provide 3D CAD drawings for your electric actuated valves?	<p>We provide 3D CAD models in popular formats for all of our Valworx products - see the "CAD" tab on each product page.</p> <p>If you need to see a file with accessories installed, email <a href="mailto:sales@valworx.com">sales@valworx.com</a> to request the specific files you need.</p> <p>Include the stock number of the valve and any accessories with your request.</p>
What is the estimated lifespan of my electric actuator?	Due to the many conditions that can affect an actuator, including, but not limited to; duty cycle, torque, environment, temperature, and enclosure ratings, we are unable to determine how long an actuator will last. Please view our product comparisons online to decide which actuator will best suit your application. Let us know if you have any questions regarding the specifications of an actuator.
How do I hook my actuator into a PLC/What do I need for controls?	Our on/off electric actuators provide a confirmation signal via dry contacts, and our positioning units provide a 4-20mA output signal. We provide a confirmation signal for our pneumatic actuators via an external limit switch, sold separately, which also uses dry contacts. We will be happy to answer any questions you may have regarding our wiring diagram but are unable to assist with a PLC provided by others. If you are unfamiliar with wiring the product, it may be necessary to consult an electrician.

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What is the life cycle of a battery for a BSR kit?	We are unable to specify the life of a battery but do offer replacements if necessary. Please call Valworx for more information. The battery is constantly being trickle charged when the unit is powered. Refer to the battery kit data sheets for details on recharge times.
What is the sensitivity/hysteresis/deadband for your electric actuators?	<p>Sensitivity may vary based on actuator type. See individual actuator product data sheets to verify if a listed rating is available. Deadband may be adjustable depending on model. Steps of rotation on a DPS/EPS can affect the output depending on application requirements.</p> <p>Sensitivity of actuator does not automatically reference valve precision. If higher accuracy is needed, opt for near-linear characteristic valves such as our "V-Port" line. Flow through ball/butterfly valves is not considered linear.</p>
Can I adjust my CAMS to stop at 45° or 180°?	In most cases, our actuators have internal cams that can be adjusted to any arc of rotation, but our product warranty is limited to applications consistent with the product's intended use. Any unauthorized modifications made to the actuator from its original state could void the warranty of the product. Contact technical support for instructions if needed.
Do electric actuators with EPS/DPS positioning require a sinking/passive or sourcing/active signal?	<p>Actuators do not have built in analog signal. Analog control signal functionality is provided by the user, for example with a PLC analog card. The DPS/EPS input should be considered a passive (sinking) 4-20 mA input, that needs a sourcing current (output from your PLC or external loop supply).</p> <p>Analog input should always be on a separate 2-wire loop from main actuator power.</p> <p>The actuator's feedback output signal is generated in 4-20 mA, and it will provide a sourcing signal based on the actuator's position - regardless of input signal being actively applied.</p> <p>When testing or troubleshooting hookup, you may use a signal generator or handheld meter to generate the required analog signal.</p>
Do you offer any actuators that use dry contact to switch between open and close?	<p>The 5900 series on-off actuators are power-to-open, power-to-close. However this series differs from others in that the control circuit is separate from the motor circuit, with the main input voltage kept separate.</p> <p>Switching open and close is done through a user-supplied 3-way dry contact switch or relay, rather than alternating a supply "hot" voltage lead to the open/close terminals.</p>