

Frequently asked questions...

Question	Answer
What is the difference between spring return (SR) and double acting (DA) actuators?	See related technical bulletin listed under "How Does it Work?"
What air pilot pressure is required to operate Valworx air actuated valves?	Most Valworx air actuated valves are designed to operate with 80-120 PSI (compressed air) pilot pressure, however exact amount can vary by actuator. See data sheet for the item in question to determine the best range to supply.
In which position does an air actuated spring return 3-way valve fail?	Position 1 is the fail position.
How does a direct mount solenoid valve work?	See technical bulletin listed under "How Does it Work?"
Does the air actuated valve have a manual override?	The air actuator does not have a built-in manual override, but a manual override is provided with optional direct mount solenoid valves. Accessory Declutchable Gear Operators could be used for safe manual override of many of our actuated valves, see category for details.
What is the correct part number for a High Temperature mounting kit for the actuated valve I am looking at?	On the product page for the actuated valve, look under the accessories tab.
What are the three (3) ports on the direct mount solenoid valve?	The center port 1 is for the inlet supply pressure (generally 80-116 PSI, may differ depending on solenoid valve stock #). The other two ports 3 and 5 are exhaust ports. Refer to IOM instructions.
How fast does an air actuated valve operate?	See product specifications. Generally, smaller valves less than 2 inch pipe size, cycle in about one second. Larger valves 6 inch or greater, cycle in about 1.5 seconds. A cycle is per 90° rotation.
How do I control the open/close speed of a double acting (DA) air actuated valve?	See product accessories. Typically you would use the 5296 series 4-way sandwich style flow valve for precision control or exhaust speed controls for rough control of open & close speeds.
How do I control the open/close speed of a spring return (SR) air actuated valve?	See product accessories. Typically you would use the 5296 series 3-way sandwich style flow valve for precision control. An exhaust speed control can be used to give rough control of the closing speed, but exhaust speed controls will not control the open speed of a spring return actuator.
Do you have prewired DIN cord sets for direct mount solenoid valves?	Yes, under the category "Solenoid Valve Cables & Connectors".
How do I wire the 5291/5292 series direct mount solenoid valve?	Basically, connect power to the DIN connector terminals 1 & 2 and the flat pin to earth ground. 1 & 2 are not polarity sensitive. See IOM instructions for more details.
Can I add a High Temperature kit to an existing Valworx air actuated valve?	Yes, you would need to select a kit matching both the actuator and valve mounting patterns. Contact customer support for assistance.
Will the Valworx valve work with vacuum?	Yes, in most cases. Check the valve specification for a vacuum rating.
Can I mechanically adjust the flow rate of an air actuated ball valve?	No, but we do offer pneumatic positioners with 4-20mA analog control signal inputs. Positioners allow user to adjust and hold flow anywhere between valve opening 0-100%.
How do I plumb a spring return (SR) air actuator?	See IOM instructions for the matching air actuator series
How do I plumb a double acting (DA) air actuator?	See IOM instructions for the matching air actuator series
Can I use the Valworx air actuated ball valve outside?	Yes, air actuated valves are weatherproof per materials of construction. Do not exceed minimum and maximum temperature specifications.
Do you have a way to confirm the air actuated valve is in the closed position? Open position?	Yes, we offer an optional valve monitor/limit switch box. Monitor contains (2) dry contact limit switches used to confirm open and closed position. There is also an integrated visual valve position indicator.

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How does the 4-20mA electro-pneumatic positioner work?	See technical bulletin under "How does it work?" Supply a 4-20mA electric input to the positioner to vary the process valve flow output 0-100%
What is the maximum temperature rating for your stainless steel air actuated valves?	Refer to the online specifications and the pressure-temperature chart found in the product data sheet.
What is the metal lever on top of the direct mount solenoid valve?	A manual override. Use a small flathead screwdriver to operate. Air supply is required.
Do you offer 12 volt DC direct mount solenoid valves?	Yes, look under actuator accessories for several alternate voltages
Can I use my own solenoid valve to operate your spring return (SR) and double acting (DA) air actuators?	Yes, typically you need a 3-way normally closed 2-position pilot valve for SR actuators or a 4-way 2-position valve to operate DA actuators
Do you offer explosion proof direct mount solenoid valves?	No, not at this time. Most universal Namur mount valves will direct mount to Valworx air actuators.
Will Valworx air actuated valves work with 50 PSI pilot air supply?	Valworx air actuated valves need 80-120 PSI pilot air supply
Can you supply an air actuated valve to operate at 2000 PSI?	The maximum pressure we offer at this time is 1000 PSI (SS valves).
Can I use your PVC air actuated ball valve with compressed air as the process media?	PVC ball valves should not be used with compressed air or gases. PVC valves are primarily used with compatible liquids.
Can I use natural gas or propane as the pilot media for Valworx air actuated valves? I don't have air available.	Air actuator pilot media should be compressed air or nitrogen
Do you have an air actuator that will rotate 180 degrees?	Valworx air actuators rotate 90 degrees
Do you have any way to stop the air actuated valve in a mid position?	Optional pneumatic positioners will allow stoppage of the valve in any position by use of a 4-20mA input control signal. Rack & Pinion/Manual Combination actuators feature a clutch mechanism allowing for a limited open/close operation for specialty requirements.
Will your valve work at a slightly higher pressure than published?	Operating pressure should be within the limits listed in the pressure /temperature chart found in the product data sheet.
Will your valve work at a slightly lower temperature than published?	Operating temperature should be within the limits listed in the pressure/temperature chart found in the product data sheet.
What happens if I use your valve at a higher or lower temperature than what you publish in the specifications?	Working temperature should never exceed ratings listed in the pressure /temperature charts found in the product data sheet.
Do you supply plumbing fittings?	We do have some air tubing and fittings available under the Accessories tab on product pages for our Pneumatic positioners. A wider range would be readily available from pipe and fittings suppliers.
Do you sell pipe and pipe flanges?	We do not sell pipe or pipe flanges. These are usually readily available from pipe and fitting suppliers. See specifications for type required.
I ordered the wrong solenoid voltage, how do I change the voltage?	Return the valve for credit and purchase correct valve or purchase new replacement coils for existing pilot valves, if that is easier (shown under the repair parts tab of solenoid product pages).
Do you offer direct mount solenoid valves with dual coils (solenoids)?	Yes. See our solenoid valve category for available voltage options.
Can I change the direction my air actuator's output rotates (clockwise vs. counter-clockwise)?	Due to a number of extenuating factors, this is not possible. Choose electric actuators if you require a reversed 3-way rotation, or unbolt valve from actuator to set the valve to an alternate "start" and "end" flow position".

Question	Answer
How do I order a 2-way on-off air actuated spring return valve setup to fail open, rather than the standard fail closed?	Request this by noting the actuated valve(s) requiring this option while placing your order (See comment box in the Shopping Cart). If product is already installed, see next question.
Is it possible to change (in the field) the 2-way on-off air actuated spring return valve from the standard Fail Closed to Fail Open?	<p>Yes, almost any actuated valve can be easily changed from fail closed to fail open.</p> <p>Remove the valve from the actuator (typically 2 to four bolts), rotate the valve's stem 90 degrees and reassemble. Remove yellow indicator inserts and move to match new position.</p> <p>Specialty high performance butterfly valves feature an integrated disc stop to prevent over travel, which renders them impossible to be changed to an alternate position than default.</p>
Can I use a pneumatic positioner on a Valworx Scotch Yoke Air Actuator?	No, due to the non-linear torque characteristics of Scotch Yoke actuators, pneumatic positioners should be used with Rack & Pinion actuators only. Most other Valworx or Namur accessories work with scotch yoke pneumatic units.
What is the maximum allowable fluid velocity?	<p>Metal valves: 5 to 10 feet/second, closer to 5ft/sec is better</p> <p>PVC valves: < 5 feet/second</p>
What is the volume consumed by an air actuator for each cycle?	Refer to the standalone air actuator data sheet specifications chart for consumption rates. Double Acting (DA) actuators consume air to open or close, Spring Return (SR) consume air only to cycle open.
What type of pilot air do I need to operate an air actuated valves?	Filtered, dry or lubricated compressed air/nitrogen. See IOM instructions.
Does a spring return (SR) actuator exhaust out of both ports?	<p>Valworx spring return actuators do, and as such, neither exhaust port should be plugged. You may use silencers or speed controls in the unused port, however back-feeding continuous air to the main supply port will cause it to remain in position, unless air is properly exhausted to allow it to spring closed. Pull</p> <p>Air can be exhausted with an external/remote solenoid or 3-way 2-position pilot solenoid valve like Valworx direct mount (DM) options.</p>
Can I adjust the limits of an air actuator's zero/span & thus its open/close positions?	Valworx actuators are tested and come preset from the factory. The process to adjust them in the field may vary, please contact Valworx support for assistance if needed.
Can I convert my existing spring return (SR) actuator to double acting (DA) or vice versa?	With standard rack and pinion models, this can usually be done. However this decision can cause the torque can be changed drastically in some cases, so always compare the torque requirements vs. actuator variations on the specific data sheets for your actuator to ensure compatibility.
Can I mount the air actuated valve in a vertical pipe line?	Yes, most Valworx air actuated valves can be mounted in any orientation, but some considerations may be taken for certain butterfly types - see data sheets for any additional recommendations.
Can I adjust the sensitivity of a Valworx positioner in the field?	<p>Yes, the IOM that comes with your positioner details how to do so. Positioners are pre-adjusted for sensitivity when purchased mounted to an actuated valve.</p> <p>Smart positioners may require accessing special settings menus, please contact Valworx support for written instructions if needed.</p>