

Frequently asked questions...

Question	Answer
What is the difference between spring return (SR) and double acting (DA) actuators?	See technical bulletin listed under "How does it work?"
What air pilot pressure is required to operate Valworx air actuated valves?	Valworx air actuated valves are designed to operate with 80-120 PSI (compressed air) pilot pressure.
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 manual override, but a manual override is provided with optional direct mount solenoid valves.
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.
What are the three (3) ports on the direct mount solenoid valve?	The center port 1 is for the inlet supply pressure (80-120PSI). 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 up to 6 inch pipe, 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?	We do not offer prewired DIN cord sets for direct mount solenoid valves.
How do I wire the 5291 series direct mount solenoid valve?	Basically, connect power to the DIN connector terminals 1 & 2 and the flat pin to earth ground. 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. See actuator accessories.
Will the Valworx valve work with vacuum?	Yes, in most cases. Check the valve specification for 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 or 3-15PSI inputs. Positioners allow user to adjust flow 0-100%.
How do I plumb a spring return (SR) air actuator?	See IOM instructions for 5300/5301 air actuators
How do I plumb a double acting (DA) air actuator?	See IOM instructions for 5300/5301 air actuators
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 a highly visual valve position indicator.
What type of pilot air do I need to operate an air actuated valves?	Filtered, dry or lubricated compressed air. See IOM instructions.
What is the volume of pilot air required for each cycle?	Refer to the air actuator data sheet specifications chart
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

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Can I mount the air actuated valve in a vertical pipe line?	Yes, Valworx air actuated valves can be mounted in any orientation.
How does the 4-20mA electro-pneumatic positioner work?	See technical bulletin under “How does it work?” Supply a 4-20mA input to the positioner to vary the process valve flow output 0-100%
How does the 3-15 PSI pneumatic positioner work?	See technical bulletin under “How does it work?” Supply a 3-15PSI 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.
Do you offer 12 volt DC direct mount solenoid valves?	Yes, look under actuator accessories for 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. User might look at the Asco brand. Most Asco 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 stopping the valve in any position by use of a 4-20mA or 3-15 PSI input control signal.
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 not sell plumbing fittings. These are usually 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.
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.
Do you offer direct mount solenoid valves with dual coils (solenoids)?	No, user might look at the Asco brand. Most Asco Namur valves will direct mount to Valworx air actuators.
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 (<i>Comments or Instructions</i> in the Shopping Cart).
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?	Yes, the valve can be easily changed from fail closed to fail open by removing the valve from the actuator, rotating the valve stem 90 degrees and reassembling. Remove yellow indicator inserts and move to match new position.