



# ProTips

## Pneumatic Speed Controls

- [Air Actuators](#) have a specified cycle time to complete a quarter (90°) rotation.
- This speed of rotation can be very quick, with most actuators revolving between positions in less than 1 second.
- While high speed operation is often preferred in industrial applications, for some installations, this could contribute to water hammer or other undesired operation. Large fluctuations in pressure should be avoided.
- Valworx offers a line of low cost accessories that can suppress the speed of exhaust, and therefore slow the operation of actuators and valves.

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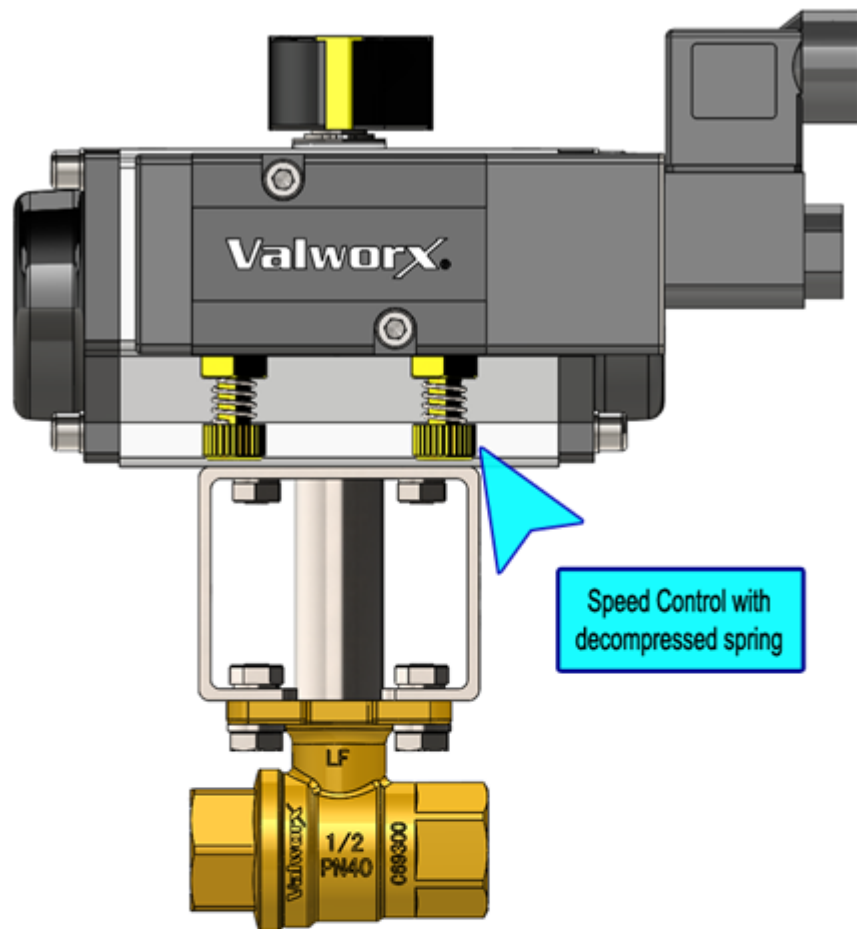
### Overview

Valworx pneumatic actuator cycle times can vary, up to a maximum of ~2 seconds, depending on size and type of air actuator (double acting or spring return) and accessories installed.

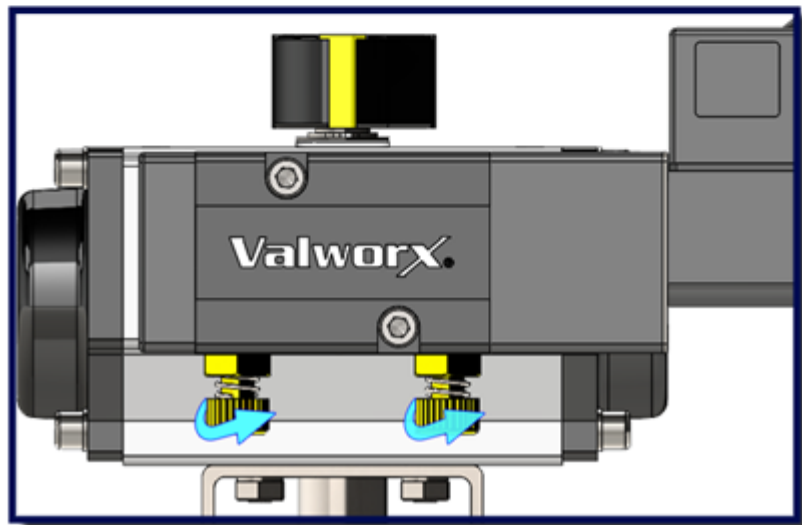
Speed controls can be pre-installed on any Valworx [solenoid valve](#) to slow the speed of operation as needed.

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## Speed Control Mufflers



Springs can be tightened by hand to close off and reduce output of air, or loosened to allow nearly full speed flow of exhaust.

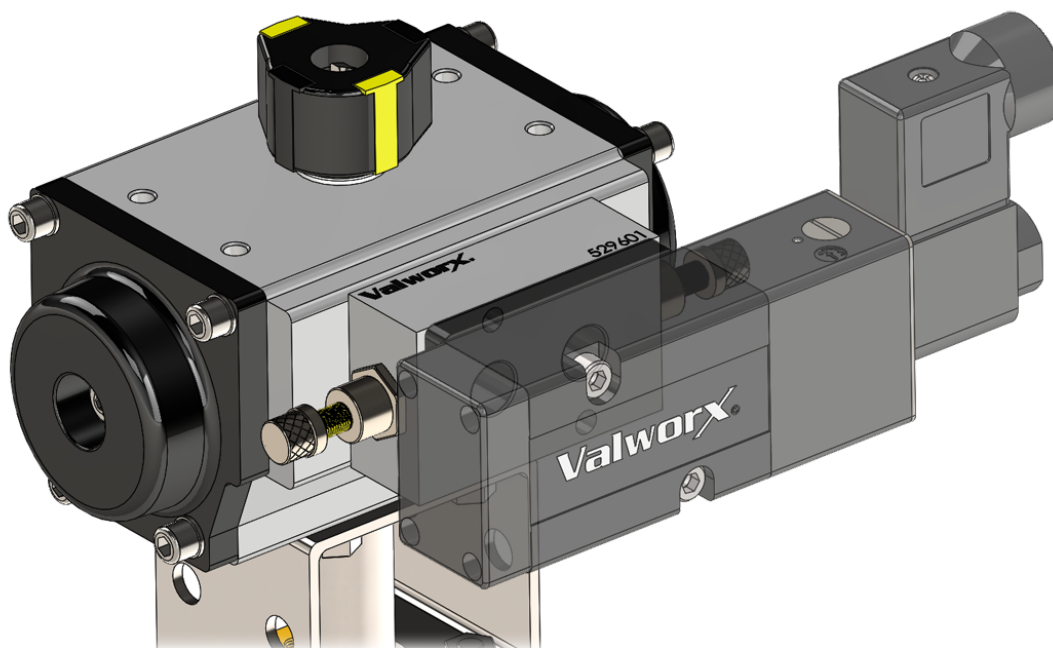


- [Speed Control Mufflers](#) are designed for rough control of speed. Friction keeps the setting locked.
- Purchase (1) control for open speed, or (2) controls for opening *and* closing speed adjustment.
- Since the exhaust ports are blocked when mufflers are installed, the accessory has the added benefits of both quietening sound, and helping to prevent the entry of particulates from dirty ambient air.
- Valworx air actuators and solenoid valves are designed for clean, filtered air. Adding mufflers could increase the working life of the components if installed in poor air quality environment.
- Speed Control mufflers should not be confused with regular mufflers, which only block the port as described above, with no control of speed.

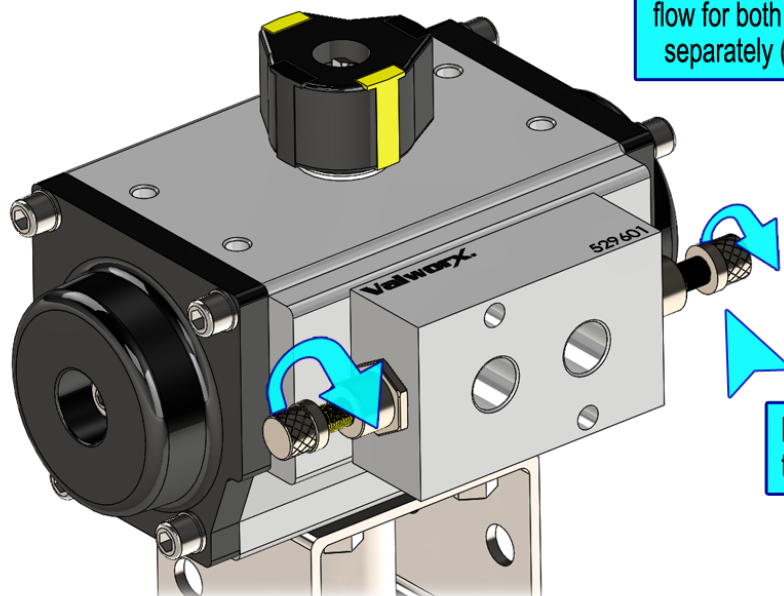
**Shop for Speed Controls & Mufflers**

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## Precision Speed Control Mufflers



Precision Speed Control knobs can be individually rotated to adjust output of air flow for both opening and closing speed separately (on double acting models).



Locking nut feature to save set position

- [Precision Speed Controls](#) are typically sandwich mounted between our direct mount solenoid valve, allowing ease of adjustment of both opening and closing speed via separate knobs.
- Precision speed controls are a more advanced throttling technology, which eliminates the fluctuations common with manually adjusted speed control mufflers. Cycle times can be increased by several seconds.
- If installation is intended for use with an external pilot solenoid valve (i.e., not direct mounted), an optional additional [adapter plate](#) can also be purchased and pre-installed atop the surface of the speed controller, providing the necessary threading for pilot air tubing.

**Shop for Double Acting  
Precision Speed Controls**

**Shop for Spring Return  
Precision Speed Controls**

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All featured accessories are designed for [Valworx](#) air actuators, & are pre-installed and tested when ordered in combination with actuated valves.

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