

Specification

Actuator Type	Spring Opposed Piston, Double Acting Piston
Actuator Action	Direct / Reverse Acting
Spring Range	Wide range available to suit application
Air Supply	20 - 150 PSIG (1.4 - 10.0 Bar)
Air Connection	1/4" or 1/2" NPT
Materials	Wide range of materials available to suit application

Accessories	Valve Positioners - Pneumatic, Electro-Pneumatic, Smart
	Instruments - Airset, Solenoid Valve, Volume Booster, Airlork, Limit Switches
	Features - Top Mounted handwheel, Limit Stops

Design Features

- The VSL range of pneumatic piston actuators has been designed to provide powerful high performance for automatic control valves.
 - Corrosion resistance to aggressive environments has led to careful consideration of component selection, whilst keeping in mind the need for weight reduction.
 - Safety is an important consideration and spring containment has been carefully addressed so that inadvertent energy release has been eliminated.
 - The foregoing conditions have led to unit being designed to accept air pressure up to 10 Bar, to provide thrust and stiffness.
 - The end caps, piston, stems and tie bars are all either carbon or stainless steel, with the cylinder being a strong light composite material called Black Amalgam.
- This careful material selection makes the actuator inherently strong, durable and corrosion resistant.
- The spring is contained in a cage and the spring cap is secured with HT Steel tie rods and the nuts welded in place.
 - This cage cartridge design prevents accidental unbolting of a pre-compressed spring and possibility of a catastrophic energy release.
 - A further feature is the spring being contained inside the cylinder in a protected clean environment inhibiting atmospheric degradation.
 - The actuator is also available as a spring-less double acting unit for even greater bidirectional thrust.
 - The following sizes are available as spring opposed pistons, double acting pistons or springless double acting pistons.

Quality and Performance Guarantee

- High power
- Fast response.
- Low stress components.
- Large variety of sizes.
- Easily serviceable.
- Split coupling design for attachment to valve.
- Wide range of accessories available.
- Produced with Quality Systems accredited to ISO 9001:2008
- Full guarantee on design and performance.
- Comprehensively tested to ensure performance on site.

Piston Actuator Sizes Available

Actuator size (in ²)	25	50	100	150	200	250
Standard stroke mm	50	80	80	80	100	100

