



Case study

SVI™ 3 Digital Valve Positioner Reduce CO₂ emissions without compromising plant operations

Compressed Air Cost Savings

3x

(Vs. conventional pneumatic
positioners)

CO₂ Emissions

↓ 250–500 kg/yr

(Per device, vs. conventional
positioner models)

Air Consumption

↓ 40%

(2.8 SLPM @ 30psi, typical)

Rated C_v Capacity

↑ 15–30%

(410 SLPM @ 30psi, typical)

THE CHALLENGE

Pneumatic control valve positioners inherently bleed compressed air, by design, to achieve proper dynamic performance. Energy used for compressing air indirectly releases CO₂. End users and corporations are all looking for methods to reduce their carbon footprint. Reducing the compressed air required for instrumentation to operate, without sacrificing process control (which can lead to other issues), reduces a plant's carbon footprint and total CO₂ emission impact.

THE SOLUTION

Pneumatic control valves can easily be upgraded with the **SVI3 Digital Valve Positioner** to improve air consumption concerns while maintaining precision process controllability. **Masoneilan™** offers various mounting kits for all Masoneilan and most other pneumatic actuator systems to make upgrade and installation seamless. The large flow capacity (C_v) allows for rapid filling and venting of the actuator, offering fast and accurate positioning in response to small and large setpoint changes, enhancing process control.



Reduce Emissions

Energy savings by changing from a conventional positioner to SVI3 is similar to changing an incandescent light to an LED bulb.



Increase Efficiency

Advanced positioning algorithms balance precise positioning response with minimal air consumption for best in class performance.



Optimize Service

Online monitoring diagnostics with Valve Lifecycle Management (VLM) services help identify potential process flow interruptions before they happen.



Improve Reliability

Dual stage, Poppet-style pneumatic technology with large flow passages is robust against blockage from contaminants within plant instrument air.