Masoneilan

SVI™ II AP Positioner With Optional High Flow

Optimized Performance Regardless of Actuator Size Eliminates One Additional Booster

Key Features

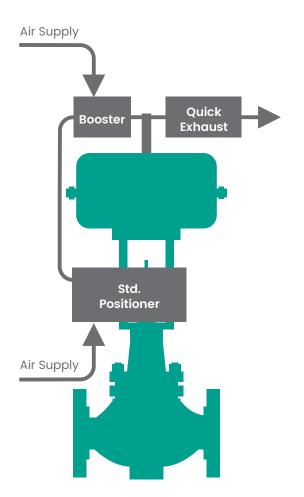
- High Flow
 - For optimized performance regardless of actuator size, eliminating or reducing the need of additional accessories (booster, quick exhaust, etc)
 - Higher capacity than most positioners available in the marketplace
- High-speed response for surge-control applications
- · Setup wizard for quick and easy commissioning
- Field proven non-contact position sensor or robust remote-mount position feedback
- Universal design (linear or rotary applications)
- Field upgradable options and firmware
- Explosion proof external LCD & buttons
- Universal label with ATEX, FM, FMc, IEC ... approvals
- ValVue™ communication software
- eDDL and DTM (standard and advanced) support
- Integration flexibility through digital communication interface
- Industrial aluminum housing

Benefits

- · Faster commissioning and start-up of control valves
- · Optimized performance regardless of actuator size
- Eliminates or reduces the need of additional accessories (booster, quick exhaust, etc)
- Ease of mounting and commissioning
- · Accurate and reliable valve positioning
- Bi-directional communication for local or remote setup
- Integration with many DCS and asset management systems



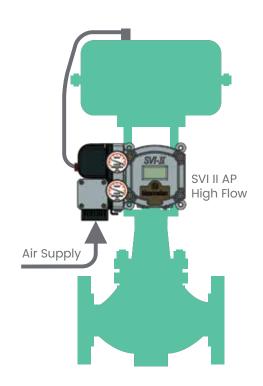
Traditional Solution



New Masoneilan™SVI II AP High Flow Solution

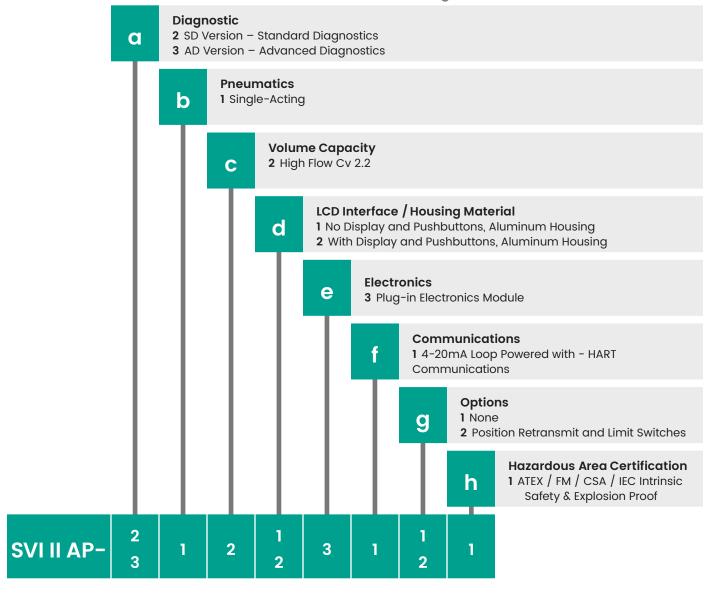
Eliminates the complexity of accessories

- Ease of commissioning due to quicker mounting, setup and reduced tubing
- Increased performance with improved auto-tuning and single instrument setting
- Reduced costs due to reduced need of accessories and quicker commissioning



How To Specify the SVI II AP High Flow

Series Identification SVI II AP – abcdefgh



Specifications

Diagnostics:

- 5 pressure sensors
- Total travel & number of cycles
- Valve operations (time open/time close/time near closed)
- Offline control valves signatures with ValVue Suite or Advanced DTM
- Online Diagnostics with Valve Aware
- · Field upgradable diagnostic levels

Materials:

• Case/Cover: - Aluminum ASTM 360

- Paint: grey polyurethane (category C4 per

ISO 12944-2)

• I/P Transducer and Relay are constructed of composite polymers and stainless steel (300 and 400 Series)

Input Power and Signal:

Power supply (taken from 4-20mA)

• Required terminal voltage: 9Vdc at 20mA

• Minimum current signal: 3.2mA

Optional Output Signals:

• Valve position: 4-20mA - two wire loop powered with 10-24Vdc compliance voltage

Two configurable and built-in isolated solid-state switches

- 1A, 30Vdc

Input Signals:

• Valve setpoint: 4-20mA, 450 Ohms input resistance

· Remote position sensor: 1 kOhms

Communication:

• HART® Revision 6 Protocol

Open technologies: eDDL, DTM, Plug-in and Snap-on applications, wireless

 Field or remote communication with True Control System Integration

Ambient Temperature Limits:

• -50°C to 85°C (-58°F to 185°F)

Ambient Humidity Limits:

• 10 to 95 percent RH non-condensing

EMC Conformity Standards:

• EN 61000-4-2, 3, 5, 6, 8, IEC 1000-4-2 and EN 50140

• EMC 89/336/EEC Directive

Actuator Travel Range:

• Linear Motion: 0.25" to 4" (6.4 to 100mm) - standard

mounting

>4" (100mm) - extended mounting

Rotary Motion: 18 to 140 deg

Travel Sensor Resolution: 0.0015 percent

Control Valve Mounting System:

Material: 300 Series St. St. standard

Valve Type: - Linear or rotary motion control valve

- Single-acting actuator

Optional Remote - Mount Position Sensor kit:

- Remote Position Sensor (RPS) assembly

- Cabling for up to 30 meters (100 feet)

- Two inch pipe mount bracket

Pneumatics:

• Air or Sweet Natural Gas - regulated and filtered

Connections (supply and actuator): 1/2" NPT

Air supply pressure:

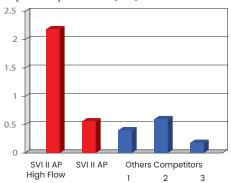
• Single-acting: 20 to 100 psi max (1.4 to 6.9 bar)

Air Delivery and Air Consumption:

Output Delivery	
Air Supply	Single Acting
30 psi (2.1 bar) supply	39 scfm (1104 I/m)
60 psi (4.2 bar) supply	70.6 scfm (2000 I/m)
90 psi (6.3 bar) supply	102 scfm (2888 I/m)

90 psi (0.3 bai) supply	102 SCIIII (2000 I/III)
Air Consumption	
Air Supply	Single Acting
30 psi (2.1 bar) supply	0.28 scfm (8 I/m)
45 psi (3.1 bar) supply	0.35 scfm (10.5 I/m)

Air Delivery Comparison (Cv):



Certifications:

• FM, CSA, ATEX, IEC

Other local approvals are pending

• Explosion Proof, Intrinsically Safe, Flame Proof, nL

• Enclosure Protection: NEMA 4X / IP66

• CE MARK

Performance¹ per ISA S75.13 - 1996:

• Power interruption without causing reset

Accuracy ± 0.5 percent Full Span
 Linearity ± 1.0 percent Full Span
 Hysteresis + deadband ± 0.3 percent Full Span
 Repeatability ± 0.3 percent Full Span
 Power-up with position control <150ms

1. For linear characteristics.



<100ms