

PNEUMATIC SEQUENTIAL VALVE GATE CONTROLLER



The SVG controller provides the user with full control over valve gate flow sequence, critical when molding complex or large parts. All SVG controllers feature the APS (Adaptive Process System) technology providing faster processing and response speed.

BENEFITS

- The sequential valve gate technology is integrated in a precise hot runner control unit with all available features or stand alone unit
- SVGP systems are air cooled & energy efficient
- Designed to easily connect to any valve gate system
- Precise filling control with performance graphs displaying time and position, with up to 4 steps per cycle
- (2) digital and analog triggers for 2-shot applications



SVGP

CONFIGURATION

- Pin position feedback for gate open /close confirmation
- Automatic and manual mode for individual gate control
- Absolute and incremental timer selections
- Single or dual acting solenoid valves for gate activation, valve banks re-locatable
- Calibrate analog signals for position, pressure and volumetric settings
- Reconfigure pin position feedback inputs for 12 additional sequences
- 500 or 1000 Watt 24VDC power supply - Standard 220V single phase (185-245V range) or Optional 480V three phase

| ITEM NUMBER | DESCRIPTION | INCLUDES |
|-------------|--------------------------|-------------------------------------|
| SVGP2 | 2 ZONE PNEUMATIC | SVG12 HMI, 1-2 SOLENOID VALVE BANK |
| SVGP4 | 4 ZONE PNEUMATIC | SVG12 HMI, 1-4 SOLENOID VALVE BANK |
| SVGP6 | 6 ZONE PNEUMATIC | SVG12 HMI, 1-6 SOLENOID VALVE BANK |
| SVGP8 | 8 ZONE PNEUMATIC | SVG12 HMI, 1-8 SOLENOID VALVE BANK |
| SVGP12 | 12 ZONE PNEUMATIC | SVG12 HMI, 2-6 SOLENOID VALVE BANKS |
| SVGPC2 | 2 ZONE COMPACT PNEUMATIC | SVG12C HMI, 1-2 SOLENOID VALVE BANK |
| SVGPC4 | 4 ZONE COMPACT PNEUMATIC | SVG12C HMI, 1-4 SOLENOID VALVE BANK |
| SVGPC6 | 6 ZONE COMPACT PNEUMATIC | SVG12C HMI, 1-6 SOLENOID VALVE BANK |
| SVGPC8 | 8 ZONE COMPACT PNEUMATIC | SVG12C HMI, 1-8 SOLENOID VALVE BANK |

If you do not see the number of controlled zones required in the table above please contact us.

Optional Accessories

| ITEM NUMBER | DESCRIPTION |
|-------------|------------------------------|
| ITSPTROLLEY | STAND |
| PNEUPP | PNEUMATIC POWER PACK 500 PSI |

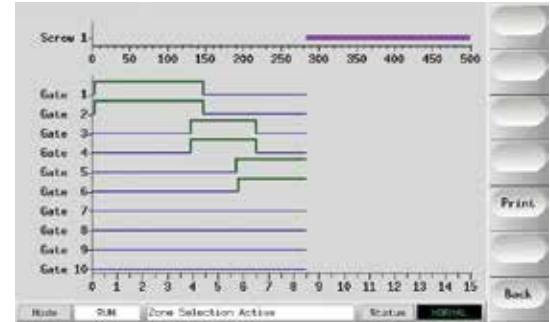


Pneumatic Power pack



KEY TECHNICAL FEATURES AT A GLANCE

- Digital outputs – fused at 2 amps
- Digital inputs - pin position back/forward
- Integrated 24 VDC power supply to drive valve gate solenoids
- 7" color touch screen on standalone controller
- Controls single or dual coil solenoid valves
- Real time valve status graph
- Configurable Easy View status page



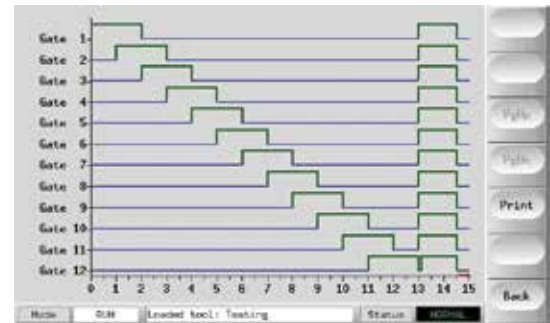
PROGRAMMABLE TRIGGERS & ALARMS

- Digital input – sequence start trigger
- Digital input triggers – programmable sequence triggers
- (2) Analog inputs 0-10 volts
- Analog input 4-20ma
- Remote enable signal – from IMM
- Fault relay output (dry contact) – to IMM
- Dry contact or 24VDC input triggering

| Gate | Step 1 | Step 1 | Step 1 | Step 1 |
|--------|--------------|------------|---------------|-------------|
| | Open Trigger | Open Value | Close Trigger | Close Value |
| Gate 1 | Time (secs) | 0.0 secs | Time (secs) | 2.0 secs |
| Gate 2 | Time (secs) | 1.0 secs | Time (secs) | 2.0 secs |
| Gate 3 | Time (secs) | 2.0 secs | Time (secs) | 2.0 secs |
| Gate 4 | Time (secs) | 3.0 secs | Time (secs) | 2.0 secs |
| Gate 5 | Time (secs) | 4.0 secs | Time (secs) | 2.0 secs |
| Gate 6 | Time (secs) | 5.0 secs | Time (secs) | 2.0 secs |
| Gate 7 | Time (secs) | 6.0 secs | Time (secs) | 2.0 secs |
| Gate 8 | Time (secs) | 7.0 secs | Time (secs) | 2.0 secs |

The screenshot shows a table for configuring programmable triggers for 8 gates. The table has columns for Gate, Step 1 Open Trigger, Step 1 Open Value, Step 1 Close Trigger, and Step 1 Close Value. The values are set to Time (secs) for the triggers and specific time intervals for the values. A 'Print' button is visible on the right side of the screen.

Controller includes 15ft (4.8m) cables



SVS Screw Calibration

Screw Settings

| | |
|--------------|--------|
| Actual Input | 0.00V |
| Unit | mm |
| Screw Length | 500 mm |
| Forward | 0.00V |
| Back | 10.00V |

Calibration Procedure

- 1) Set unit for calibration.
- 2) Set maximum screw length.
- 3) Move screw to forward position.
- 4) Touch the Forward box.
- 5) Move screw to back position.
- 6) Touch the Back box.
- 7) Press OK to store settings.

Buttons: OK, Cancel

This screenshot shows a valve status page with 8 gates. Each gate has a status indicator: 'CLSE' (Closed) or 'OPEN'. The indicators for Gate 1, Gate 2, Gate 3, Gate 4, Gate 5, Gate 6, and Gate 7 are 'CLSE'. The indicator for Gate 8 is 'OPEN'. A 'Stop' button is visible on the right side of the screen.