Sequential Control

**VGC™ Valve Gate Control**
PRODUCTIVITY AND PERFORMANCE

Demanding applications require optimized control of the complete valve gating process to ensure superior part quality. Combined with our valve gated hot runner technology, the VGC™ control precisely operates pneumatic or hydraulic valve pin actuation by sensing the position of the injection molding machine screw to ensure exact, repeatable filling of the molded part.

UNMATCHED, REPEATABLE PART QUALITY

Sequential actuation can be controlled and adjusted to exacting levels of performance accounting for part geometry, material fill characteristics and molding conditions. Valve gate performance using VGC™ controlled systems provide the required process flexibility to ensure consistent part quality. For repeatable control, up to 8 different valve gated mold sequences can be saved in the controller reducing start up times. Key molding benefits include:

- Ideally suited for large thick walled parts
- Weld line positioning or elimination
- Superior surface quality for in-mold decorating
- Elimination of short filling
- Consistent part weights in family molds
- Reduction of warp and flash that results from over packing
- Clamp Force Reduction

BUILT IN SYSTEM PROTECTION

The VGC™ auto alarm control alerts users to problems with key components and controls. Features include: no valve gate set to open on injection, control card failure and hydraulic power pack operating status. The alarm also detects whether the machine is under alarm preventing the controller to run cycle. For secure operation, password protection ensures a qualified operator properly controls set parameters at all times.

For more information visit www.incoe.com/vgc

GLOBAL SUPPORT

The VGC™ Sequential Valve Gate Control design incorporates multi language* functionality at the user level ensuring that wherever your molding needs to take place, our valve gate control technology can support your operations at the local level. The controller is ideal for any application in markets such as automotive, appliance, medical, technical, and housewares molding supported by proven technical expertise.

* English, French, German, Italian, Portuguese, and Spanish. Other languages optional.

INCOE™s VGC™ Sequential Valve Gate Control for optimized valve gate performance

Right From The Start.

ADVANCED VALVE GATE CONTROL FEATURES

- Hydraulic or Pneumatic compatible
- 4, 8, or 12 valve gate operation
- Single or Double Solenoid Directional Valves Operation
- Valve Gate operation controlled by:
  - Injection Start Signal
  - Hold Start Signal
  - Screw position Signal
  - Time

ADVANCED USER CONTROL FEATURES

- Loading and Saving of 8 Sequence files
- Manual actuation of Valve Pins
- Multi language interface-English, French, German, Italian, Portuguese, and Spanish
- Alphanumeric Keyboard for input information
- Blue LCD display
- Cycle Time display
- Screw position Display
- LED’s for indication Valve Gate Open (Green) Closed (Red)
- 2 Opening and Closing times per cycle
- Screw Position Displayed in %, inches. or mm, cm3
- Password protected
- Valve gate pin position confirmation (optional)

POWER

- 230 VAC
- 50 / 60 Hz auto select
- 16 amp circuit breaker

ADVANCED SYSTEM PROTECTION FEATURES

- Security Alarm input / output
- Alarm activated if no valve pins are set to open on injection start
- Input Hydraulic power pack is operating
- Input from molding machine indicating machine is under alarm preventing controller to run cycle