GSC2
Gate Sequence Controller

Productivity & Performance

- Advanced Gate Sequence Control
- Weld Line Positioning or Elimination
- Consistent Part Weights in Family Molds
- Clamp Force Reduction
- Reduction of Warpage or Flash from Over-Packing
- Superior Surface Quality for In-Mold Decorating and Painted or Chromed Parts
ADVANCED GATE SEQUENCE CONTROL

Market demands for injection molded parts requiring complex geometries, superior surface quality, or decorative appliqués tend to be more difficult to fill causing a variety of molding challenges. Injection fill of multi-cavity or multi-gated single cavity molds can be manipulated using hot runner valve gate systems with Valve Gate Control. INCOE’s **GSC2 Gate Sequence Controller’s patented technology provides injection molders optimum control on the most demanding applications. Precise and repeatable valve gate pin opening and closing can be accomplished by volume, cavity pressure or time.**

**BENEFITS OF GSC2**

The **GSC2** interfaces with the injection molding machine using a position sensor for the injection machine’s screw, a transducer for injection pressure, and output connections for injection forward and mold close. Cavity sensors can also be interfaced.

**GSC2 provides three unique processes: Independent, Alternate, and Sequential Valve Gate Control.** Each process technique provides unique and specific advantages tailored to the molded part requirements.

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**INDEPENDENT VALVE GATE CONTROL**

All cavities begin to fill at the same time and gates close at independent volume/pressures. As cavities close, pack rate on remaining cavities increase and balance is achieved by closing gates at selected inputs.

**ALTERNATE VALVE GATE CONTROL**

Each cavity is filled and packed by position or pressure individually.

**SEQUENTIAL VALVE GATE CONTROL**

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INCOE Corporation acknowledges RJG Inc. for their significant contribution in the development of the GSC2 Gate Sequence Control. GSC2 software is a RJG development with patented technology developed by INCOE.