



Press Release

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FILLCONTROL Control V

Automatic Valve Gate Control for Hot and Cold Runners

Meanwhile, the balancing of hot runner molds by means of cavity temperature sensors is an accepted and widely used procedure in injection molding. Hereby, the melt flow in the individual cavities of a multi cavity mold is determined, and then adapted and optimized via the corresponding nozzle temperatures.

Entirely new possibilities in the field of process control are opened up by the ability to position and control the pins in the corresponding valve gates directly as a function of melt flow. In this way, multi cavity molds can be balanced without having to change the nozzle temperatures of hot runners. Using this principle, hot runner systems for thermoplastic materials can be balanced just as well as cold runner systems for the injection molding of liquid silicone.

The automatic detection of the melt front in every cavity enables the different filling times from cavity to cavity to be recognized and analyzed automatically. The PRIAMUS® System calculates the optimized settings of the pin stroke for every cycle, and transmits them to the valve controller via an interface. In this way, the filling times in every cavity are automatically matched and balanced to each other adaptively.

The precondition for the automatic valve gate control is the connection of the system via an interface. For the balancing of thermoplastic multi cavity molds e.g. valve gate controls of Synventive are suitable while for applications in LSR molding the Servo Shot system of ACH Hefner has been used successfully.

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Valve Gate Control

