

**HUSKY**<sup>®</sup>

## Individual Servo Valve Gate (ISVG)

Complete control of valve stem motion to produce better parts



Husky is a leading global supplier of manufacturing solutions and services for plastics processors. We design, manufacture and integrate the industry's most comprehensive range of injection molding equipment, including machines, molds, hot runners, controllers, auxiliaries and integrated systems.

Controlling valve stem motion improves molded part quality and consistency. Our new Individual Servo Valve Gate (ISVG) offers technology that ensures complete control of the valve stem motion throughout the entire molding cycle. From the compact size of the purpose-designed electric servo actuator to the fully integrated controls in the Altanium Mold Controller, the ISVG hot runner system is built to meet the challenging demands of the injection molding environment.

Individual Servo Valve Gate hot runners are available with Ultra 350, 500,750 VG, VX and Ultra Helix nozzles with the ability to process with part fill pressures up to 26,000 psi and mold temperatures up to 90 degrees Celsius.

**Benefits:**

- Independent gate opening and closing
- Valve stem speed and position control
- Closed-loop control

**Features:**

- Servo actuator with valve stem up to 100mm/sec
- Single Altanium ISVG Mold Controller interface with integrated servo and heat control

## The Value of ISVG

Independent servo control of valve gate provides unique options for injection molding a wide variety of parts. In low cavitation molds, individual servo fully synchronizes valve stem movement. This can improve balance by eliminating the variability that will occur with pneumatic actuation.

For applications that require sequential gate opening and closing, individual servo performs with much greater control and flexibility than pneumatic or hydraulic options. Family molds, multi-material molds and large parts with multiple gates are examples of systems where sequentially actuated servo valve gates would provide significant benefits.

When matched with Ultra Helix valve gate technology control of valve stem speed significantly extends gate and valve stem life, reducing downtime and maintenance costs.

## Powered by Altanium

The new Altanium Individual Servo Valve Gate (ISVG) Controller is the solution to control the precision and accuracy of the ISVG Hot Runner servo motors. The combination of the Altanium controller and our ISVG hot runner system provides a level of control not found in conventional pneumatic or hydraulic systems. The Husky ISVG solution delivers full control of position and speed, for up to 8 individual drops, allowing profiled motion for each valve stem. The closed-loop motion control, provides immediate valve stem response and ensures precise and repeatable positioning.

The controller also collects position, duration and force data for up to 100,000 cycles providing instant access to stem motion performance for troubleshooting and part quality tracking.

The ISVG solution can be applied to low cavity applications requiring synchronized stem motion or sequenced stem control and comes standard with Altanium's highly accurate Active Reasoning Technology based hot runner temperature control.



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