

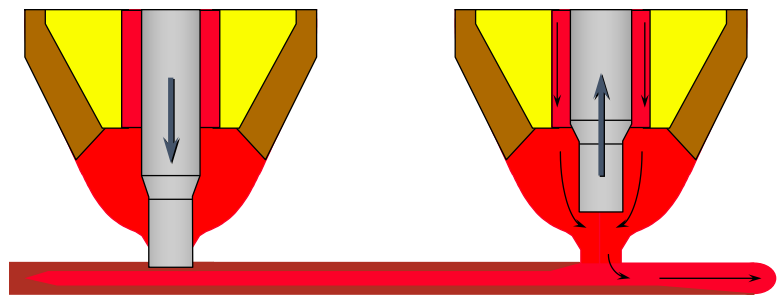


# Altanium® Valve Gate Sequencer

The Altanium® Valve Gate Sequencer (VGS) is a technology that controls the open/close sequence of pneumatic or hydraulic valve gates during each injection cycle.

VGS technology gives molders control over weld or knit line positioning to ensure the aesthetics and structural integrity of colored and glass filled parts. Other benefits include mechanical balancing of family molds and potential reductions in clamp tonnage requirements by using a cascading fill technique. This technology is ideal for multi-gated parts used in the automotive and consumer electronics markets.

The Altanium® Valve Gate Sequencer can control up to 32 valve gates and is available as a standalone sequencer or integrated with hot runner temperature control.





VGS Home Screen



VGS Sequence Preview



Configurations	Stack	Height (H)	Width (W)	Depth (D)
 Standalone	1 Stack	1244mm/49"	457mm/18"	558mm/22"
 Integrated	1 Stack	1244mm/49"	457mm/18"	558mm/22"
	2 Stacks	1244mm/49"	508mm/20"	558mm/22"

## Features

Available with integrated hot runner control	Save cost and time by controlling two critical aspects of the process (Valve Gate and Temperature) using a common operator interface
VGS overview (Home) screen	Saves time by providing an overview of the entire sequence, from a single screen, to ensure everything is working correctly or for troubleshooting problems in the process
Highly configurable signal interface to support multiple methods of triggering a sequence (Time, Digital or Analog)	Provides the flexibility to connect the controller to any number of available signals, eliminating the need to pay for expensive upgrades on the machine
Compatible with the analog signal from linear position transducers that can be easily configured to trigger the VG sequence based off IMM screw position	As a volumetric measurement of the available plastic in the mold, triggering the sequence off screw position is the most accurate and repeatable way to control valve gates, resulting in higher quality parts and less scrap
Manually actuate valve gates from the controller	Manually controlling valve gates is a simple and effective way to confirm how the solenoids are configured and that the system is connected properly
At-Temperature function with soak timer	Protects gates and valve stems from damage by preventing any actuation until the mold has reached processing temperature and has soaked the appropriate amount of time to allow stems to move freely
Packing function	Allows individual valve gates to open and close up to 3 times in a single cycle which is critical to some processes for optimized quality by allowing targeted areas of the part to be packed further during injection
Dedicated safety gate input	Forces all stems to the closed position, when safety gates are opened, to protect personnel from resin burns

## Option

Air Kit (1-32 Circuits)	Includes solenoid valve stack, shutoff valve, pressure regulator, silencers, air hose, fittings and a 7.6m/25ft field cable (controller to valve stack)
Linear Position Transducer	Includes pull string type linear position transducer in lengths from 50mm/2" to 2000mm/80" and a 7.6m/25ft field cable (controller to LPT)
Hydraulic Power Unit (8 and 16 Circuits)	Includes standalone hydraulic power unit rated for 172bar/2,500psi with a 9.5L/2.5gal accumulator and a 7.6m/25ft field cable (controller to HPU)

## Technical Specifications

Operator Interfaces	Delta5 15.6" HD Touch Monitor (4-16 circuits), Matrix5 22" Full HD Touch Monitor (4-32 circuits)
Configurations	Standalone VGS Control, Integrated VGS with HR Temperature Control (1-255z)
Valve Gate Control Circuits	4, 8, 12, 16, 20, 24, 28, 32
VG Activation Type	Solenoid Valve (24VDC, 2A per control circuit)
Digital Inputs (User Configurable)	6 (standard for 4-16 circuits), 34 (standard for 20-32 circuits or optional for 4-16 circuits)
Digital Outputs (User Configurable)	4
Analog Inputs (User Configurable)	4 (0-10v), 2 (4-20mA)
Scan Rate	1ms for 32 circuits (depending on the configuration)
Safety Signals (Dedicated)	IMM Safety Gates Status, Valve Gate Sequencer Enabled
Supply Voltage	3-PH + Earth (4 wire) 200-240 VAC 3-PH + N + Earth (5 wire) 380-415 VAC Other voltages require an input supply transformer

**Husky Injection Molding Systems**  
[www.husky.co](http://www.husky.co)

**Head Office** Canada • Tel. (905) 951 5000 • Fax (905) 951 5384  
**Asia Pacific** China • Tel. (86) 21 2033 1000 • Fax (86) 21 5048 4900  
**Europe** Luxembourg • Tel. (352) 52 11 51 • Fax (352) 52 60 10

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