

**PRESS RELEASE -for immediate release-**

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## **Synventive Announces the SVG+, the New Standard for Sequential Valve Gate Molding**

*(Synventive, Peabody, MA February 2017)* ... Synventive - the leader in sequential valve gate applications, is pleased to announce the **SVG+** hot runner systems. The **SVG+** features numerous patented design enhancements offering superior performance, efficiency and reliability for sequential molding of large parts:

- Simple designs: **No cooling lines or plates** required – delivering increased reliability in the molding process.
- **Easy set up and troubleshooting**: Features that support time savings by providing monitoring and diagnostic tools from outside of the molding machine. This results in less downtime, less scrap, and increased reliability.
- Allows for easy upgrade to **activeGate**<sup>®</sup> control technology for **lower operating costs and improved quality**. High quality Class A part surfaces, as well as the ability to mold parts with complex geometries and high dimensional stability, are easier to achieve in less time.

The **SVG+** hot runner systems are equipped with a new modular actuator design and patent pending **SynCool3** technology. **SynCool3** provides cooling of the actuators without the need for separate cooling lines.

**SynCool3** provides these important benefits:

- Preheat without damage to actuator or seals
- Eliminate clogged or leaking cooling lines
- Prolong actuator seal life with less servicing
- Improve manifold temperature uniformity by removing cooling plate
- Facilitate quick mold changes by eliminating the need to cool down hot runner
- Prevents overheating and degrading of hydraulic fluid

These systems are delivered with a Valve Monitoring Interface (**VMI**) for monitoring, diagnostics, and trouble shooting from outside the molding machine. **VMI** provides measured individual pin movement data and allows operators to check whether the valve pins are moving as intended.

**VMI** offers:

- Real time sequential valve gate status and ease of set up
- Trouble shooting from outside of the machine to address any open/close issues
- Confirmation that the piston is traveling as intended
- Viewing actuator opening times during the molding process

All SVG+ Systems are supplied as **activeGate** enabled. Simply connect a VMI for pin position monitoring, or if greater control is required, upgrade to the appropriate **activeGate** control technology. **activeGate** is a scalable technology that provides greater control for the molding process and improves part quality. By controlling the flow of plastic out of each gate, **activeGate** control technologies have minimized or eliminated a variety of part surface defects. The technology provides precise control of each valve pin, including position, acceleration, velocity, and stroke.

Benefits include:

- Higher quality part surface finishes
- Ability to mold parts with complex geometries and high dimensional stability

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- Higher production rates
- Clamping force reduction
- Ideal for family or modular molds
- Decreased scrap
- Quicker start ups

“With this new product launch, Synventive is poised to meet the future demands in the molding industry,” said Mark Moss, Executive Vice President, Business Development for Barnes Group’s Molding Solutions. “Our modular approach provides efficient options to upgrade hot runner systems with additional technologies to realize the growing quality requirements of plastic parts.”

Synventive will be exhibiting at the show in Booth #3949 with the other Barnes MOLDING SOLUTIONS companies.



**M O L D I N G   S O L U T I O N S**

Molding Solutions, a business unit of Barnes Group Inc., provides high quality hot runners, molds and control systems to the injection molding industry.

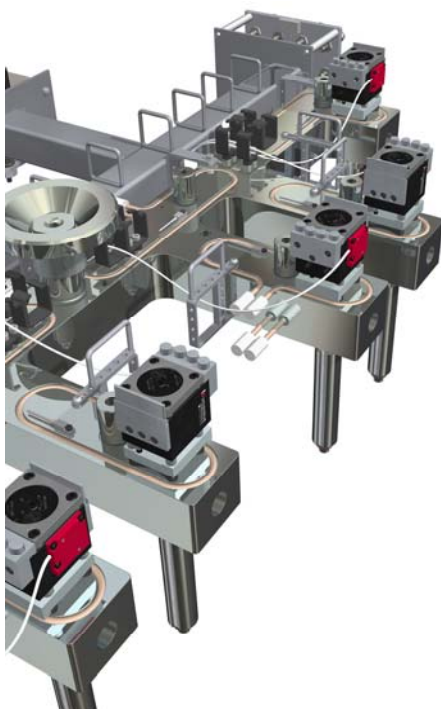
### *About Synventive*

Synventive, a business of Barnes Group Inc. (NYSE: B), is one of the world's leading manufacturers of innovative hot runner systems and controls for injection molded plastic parts. Since the 1970's, Synventive has proudly met the challenging requirements of global customers in automotive, electronic, medical, and consumer markets.

Synventive has manufacturing operations in North America, Europe and Asia, each with its own manufacturing, design, and research and development departments. North America is served by the company's Peabody, Massachusetts facility; Europe by the company's Bensheim, Germany facility; and Asia by the company's Suzhou, People's Republic of China facility. Additionally, Synventive has sales and service offices and/or representatives in 26 countries. For more information, please visit [www.synventive.com](http://www.synventive.com).

### **About Barnes Group** □

Founded in 1857, Barnes Group Inc. (NYSE: B) is an international industrial and aerospace manufacturer and service provider, serving a wide range of end markets and customers. The highly engineered products, differentiated industrial technologies, and innovative solutions delivered by Barnes Group are used in far-reaching applications that provide transportation, manufacturing, healthcare products, and technology to the world. Barnes Group's skilled and dedicated employees around the globe are committed to achieving consistent and sustainable profitable growth. For more information, visit [www.BGInc.com](http://www.BGInc.com).



*The SVG+ is the new standard for every sequential valve gate application.*