

## Polifast



- Specially developed for small parts, the POLIFAST series is Polimold's ideal solution for sensitive products that requires quick cycles and repeatability.
- Low heat transfer.
- Ideal for reduced layouts.
- Differentiated sealing flanges, designed and developed for specific applications.
- Uniform manifold balancing.
- Fully balanced
- High precision on thermal conductivity
- Manifold and hot half plates made with stainless steel
- Uniform heating
- Flow channels polished
- Minimal thermal variation



## Polimax

POLIMAX has been developed for several applications. Ideal for use in commodity and engineering plastics. It combines a large variety of tips and nozzles.

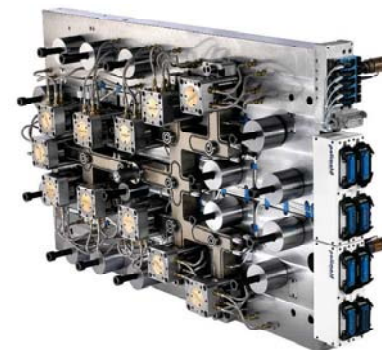
- High injection capacity
- Large number of nozzle and tip combinations
- Interchangeable components
- Excellent application in compact projects
- Five families for different use and combinations
- Nozzle lengths up to 500mm
- Wear-resistant tips



## Policosmetic

POLICOSMETIC, is the custom-made solution for injection of medium-sized products with high production levels. It allows low heat transfer, excellent thermal stability and low heat dissipation both for the mold plates and the plastic products.

- High injection capacity
- High speed cycles
- Uniform injection pressures
- Minimum between-center distance of up to 17mm
- Two nozzles families with lengths of up to 300mm
- Ideal for reduced layouts
- Differentiated sealing flanges designed and developed for specific applications
- Ideal for lenses, flashlights, CD cases, bumpers, etc



## Polivalve

For superior gate cosmetics and sequential part filling when the surface quality is important for both small and large part applications, the Polivalve Valve Gate System is an ideal choice. Available in two versions, Hot Half and Simplicity Drop-In systems, Polivalve provides a fully integrated multi-use valve gate system featuring a wide variety of nozzles. Available in hydraulic or pneumatic actuation, the Polivalve series offers many benefits

- Excellent for sequential filling and family mold applications – improves parts quality, reduces costs, increases part design options, opens processing windows and eliminates knit lines
- Zero gate vestige on molded parts – improves cosmetics and eliminates secondary trimming operations
- Side-entry nozzle flow channel – ensures minimum flow disturbance, improves system reliability and results in less pressure loss
- Front and rear loaded nozzle heater options
- "A" dimension range from 52mm to 500mm



**PCS Co. is a leading full-line supplier of high-quality molding components, standard and special mold bases, hot runner systems, custom-made products and nano technology products. The company is positioned to provide customers with consistent quality, exceptional customer service and component inventory. For more information about PCS and its products, visit the company's website.**

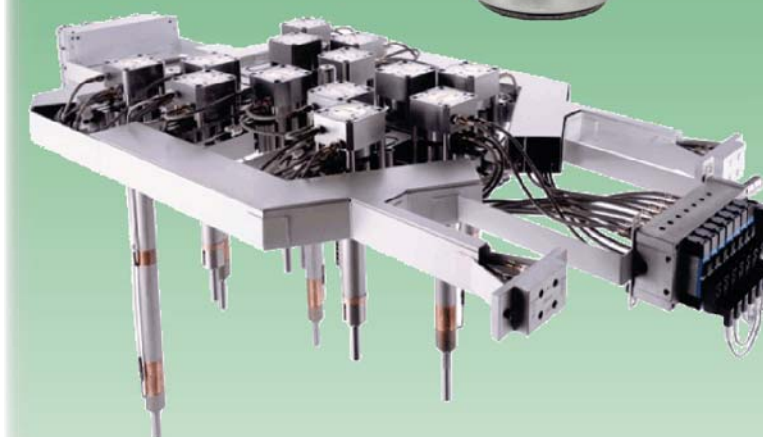
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# HOT RUNNER PRODUCTS



## Product line overview



## PCS Mini Hot Sprue Bushings

- Designed for maximum part weights up to 70 grams
- Designed to fit standard industry tooling inserts including FITS<sup>®</sup>, MUD<sup>®</sup>, RTI<sup>®</sup> and others
- Compact design for small part and/or runner applications in A or B series mold bases
- Reduces material waste by replacing the cold sprue bushing
- Helps minimize cycle time reducing shot size and over all cure time
- Available in standard inch dimensions
- With and without head heater options depending on the processing requirements (one or two zones of control)
- Capability to process commodity and engineered resins both filled or unfilled
- J type thermocouple
- In stock at PCS
- Various tip configurations such as point gate, ring gate and sprue gate
- Locating Rings in stock at PCS



## PCS Standard Hot Sprue Bushings

- Designed for maximum part weights up to 800 grams
- Reduces material waste by replacing the standard cold sprue bushing
- Helps minimize cycle time reducing shot size and over all cure time
- Available in standard inch dimensions
- Available with or without head heater (one or two zones of control)
- Capability to process commodity and engineered resins both filled or unfilled
- Spare thermocouple for the nozzle body
- In stock at PCS
- Various tip configurations such as sprue gate and ring gate
- Locating Rings in stock at PCS
- Contact PCS for stripper plate or three plate applications



## Polimold<sup>®</sup> Polimax<sup>®</sup> Hot Sprue Bushings

- Designed for maximum part weights up to 3000 grams
- Reduces material waste by replacing the cold sprue bushing
- Helps minimize cycle time reducing the shot size and over all cure time
- Available in metric sizes only
- Five flow channel diameters from 6mm (.236") to 18mm (.708")
- Hot Sprue Bushing lengths from 55mm (2.165") to 500mm (19.685")
- Standard and High Performance hot sprue bushing assemblies available
- Capability to process commodity and engineered resins both filled or unfilled
- Contact PCS for availability
- J type thermocouple
- Various tip configurations
- Locating rings for the 200 and 500 series hot sprue bushings in stock at PCS
- Locating rings for the 800 and 1000 series hot sprue bushings designed per application



## Volastic<sup>®</sup> Hot Sprue Bushings

- Designed for maximum part weights up to 1500 grams
- A modern alternative to the DME<sup>®</sup> Medium and Jumbo Gate Mate<sup>®</sup> hot sprue bushings
- Helps to prevent tip unscrewing and improves molded part cosmetics
- Patented nozzle design helps lowers the processing temperature
- Suited for direct part gating with a single hot sprue bushing where gate cosmetics are a concern
- J type thermocouple
- Standard inch dimensions
- Capability to process commodity and engineered resins filled or unfilled
- Standard and wear resistant tip materials available
- Locating Rings in stock at PCS



- Compatible with all industry standard "G" Series<sup>®</sup> style temperature control modules and mainframe systems
- Automatic (closed loop) & Manual (open loop) control modes
- Current (Amps) monitoring
- Boost power output function in both automatic and manual control modes
- Fully automatic, adaptive tuning of PID variables
- User selectable automatic Thermocouple break hold function (transfers power setting to manual mode if T/C is lost)
- Full diagnostics (fault recognition) with English fault code display
- Ground fault protection
- User selectable delay for shorted T/C diagnostic to prevent premature alarm on slow or heavyloads
- J type T/C standard, user selectable K type option
- Alarm output communications compatibility
- Automatic slow start temperature ramp for wet heater dry out
- Operating voltage can easily be changed to 120v via printed circuit board jumpers
- Anti-arc (high voltage) protection
- CE, WEEE, and RoHS Compliant
- 2 year product warranty (excluding fuses and triacs)
- Standard Mainframe Configurations are 1, 2, 5, 8 and 12 zones
- Special Mainframe Configurations are 16, 20, 24, 28, 32, 36, 40, 44 and 48 zones
- **Proudly made in the U.S.A.**



## Serving industries such as:

- Packaging
- Automotive
- Electrical Components
- Home Appliances
- General Appliances
- Pharmaceutical
- Toys
- Cosmetics
- Medical



### Affordability

The Visions 3000 incorporates a wide variety of features at an economical price.

### ATC Control Technology

Adaptive Thermal Control technology utilizes an advanced algorithm which is adaptable to different molding environments for precise temperature control.

### Ease of use

Turn the system on, enter set points and Visions 3000 intelligent start up function will do the rest.

### Global Editing Feature

Control set points and boost individually or grouped.

### Large Color Screen

The visibility of the LCD screen is suitable for any environment.

### Power Temperature Comparator

A diagnostic feature which displays actual power and temperature versus time.

### Durable

The Visions 3000 unit is manufactured to withstand rigorous industrial environments.

### Safe Mode

Allows the system to run at a lower temperature if in idle, for a short period of time.

### Self Diagnostics

An intuitive suite of functions available from start-up through operations. (See LED diagnostic code card and manual.)

### Service

Cards can be changed easily with no interruption, making repairs quick and simple.

### Slaving

When one or more zones do not have thermocouple feedback, they can be linked to zones with similar characteristics.

### Soft Start

An automatic feature which bakes moisture out of the tool by slowly bringing up the temperature of the mold then supplying power until the measured value is within the proportional band for each zone.

### System Alarm

The system will alert the technician if errors occur within the molding operation.

### Tool Database

Storage capacity of 100 or more toolsets.

### Toolguard

An exclusive patented feature of Visions 3000 which monitors the performance and operations on the mold and can automatically put the system into safe mode if the operation becomes damaging. Toolguard prevents heat buildup in the mold.

## Volastic<sup>®</sup> Hot Runner Systems



- Thermal Tip Solutions for Commodity and Engineered Resins (filled and unfilled)
- Systems from single to 72 nozzle drops
- Capable of Part Weights from 1 gram to 1500 grams per nozzle drop
- Sold to the customer by either complete package systems or manifold & component systems
- Unique Manifold Technology



- Incorporates smooth channel inserts
- Manifold balancing techniques utilizing channel inserts makes the impossible project, reality
- Flow channels up to 4 levels and 48 drops in one block of steel reducing overall hot runner stack height
- Homogeneous material orientation creating a "race track" effect to balance material flow to the gates

