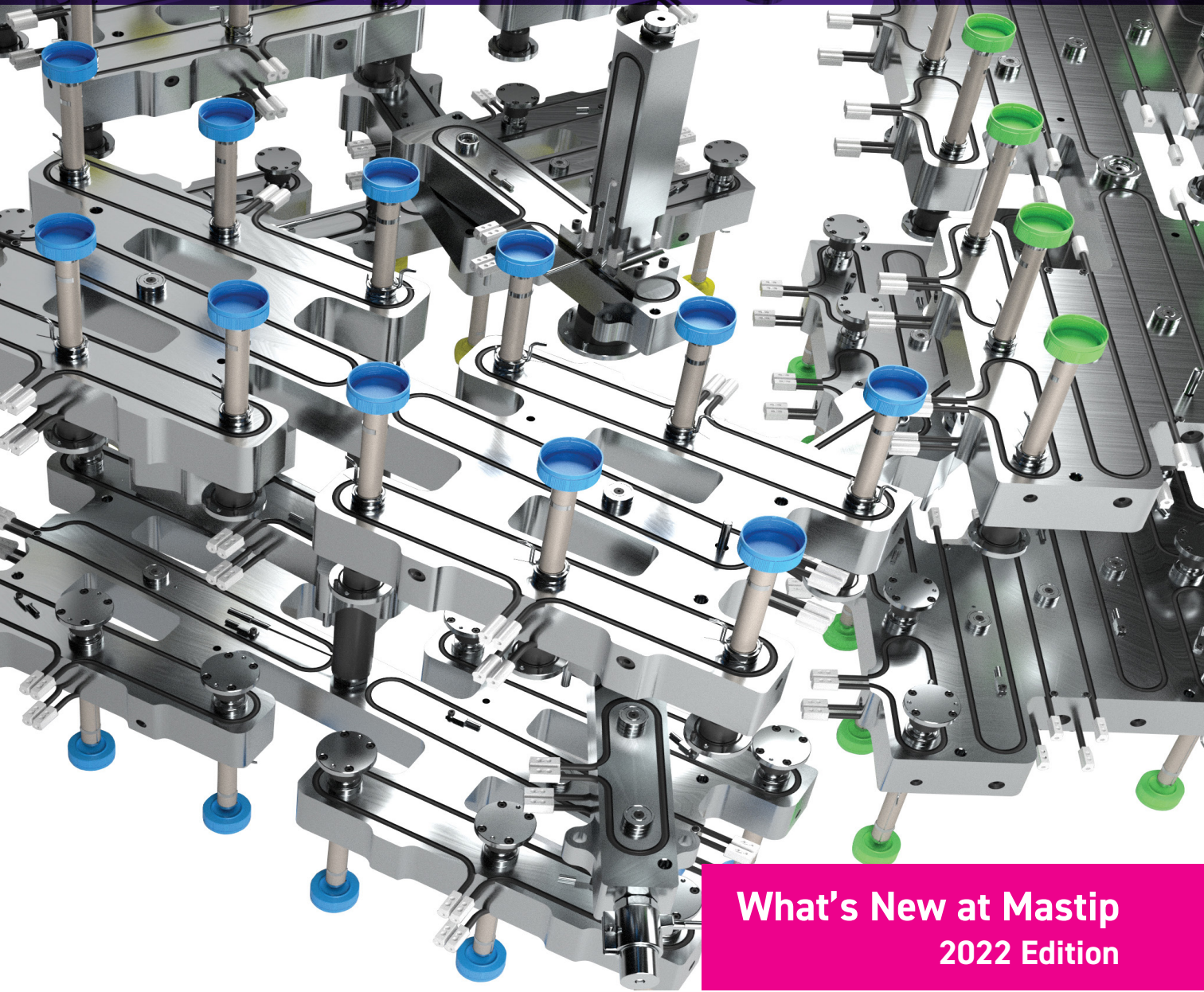


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## What's New at Mastip 2022 Edition

Gate Cooling Inserts

Liquid Silicon Rubber Systems

X-Range YV Tipless Nuts

MetiCom Controller Solutions

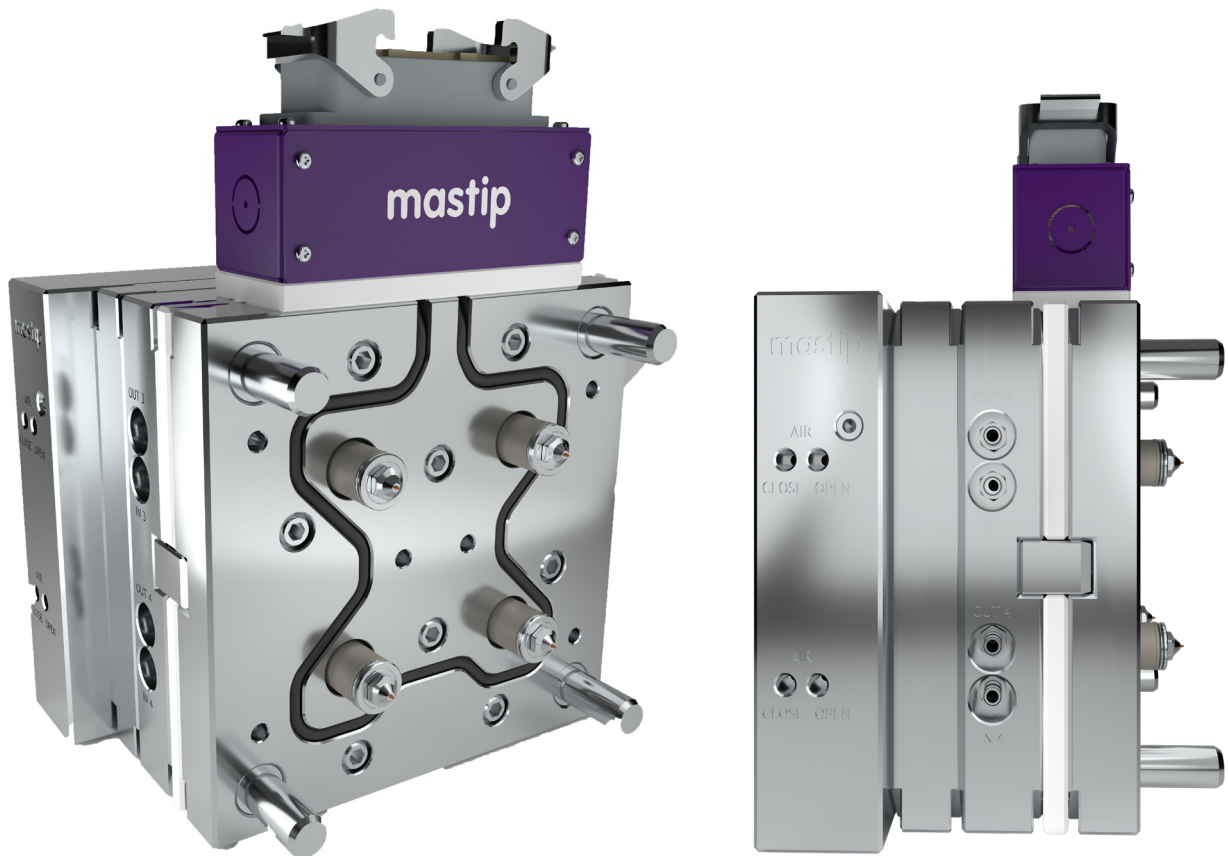


# Liquid Silicon Rubber System

## Supplied as a Fully Assembled Cold Deck

LSR has superior performance in areas such as chemical resistance and extreme temperature variances making it ideal in industries like automotive, medical, homewares and consumer electronics.

Featuring a "Cold Deck" design the mould plates, manifold and nozzles are fitted with cooling channels to ensure the mixed material is kept in its uncured condition until it enters the heated cavity plates. Valve gates allow for optimum control over the injection cycle, ensuring a positive shut off and separation of this uncured material from the heated cavity plate for a perfect shot each cycle.



Due to its inert nature, LSR is ideal in industries like medical and home bakeware as it does not leach harmful chemicals that can cause adverse reactions. UV resistance makes LSR a good choice for electronic wearables and external automotive parts, for example windshield wipers.

High temperature resistance is vital in industries where a sterilization process is common; for example medical industries and for consumer products that regularly undergo temperature variances like bakeware and kitchen products.

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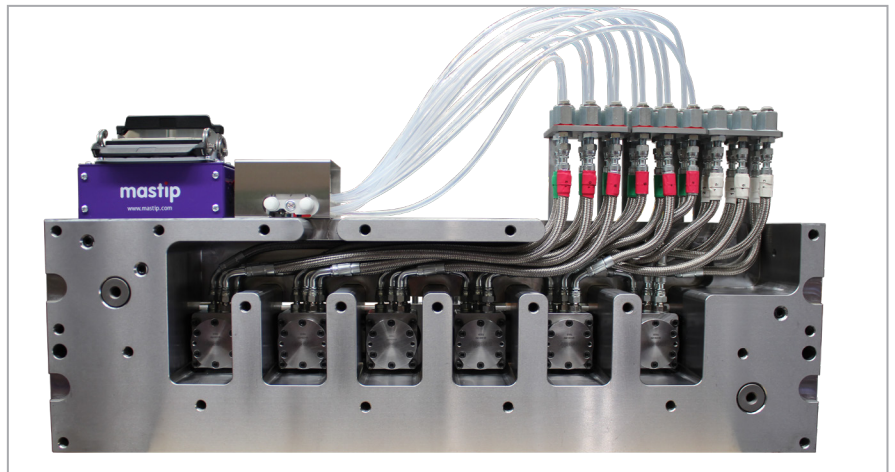


# Cylix™ Hybrid Valve Gate Actuator

## with Pneumatic or Hydraulic Actuation

The Cylix™ Hybrid Valve Gate (HVB40) Actuator features Pneumatic or Hydraulic valve gate actuation in a thermally controlled system mounted directly to the manifold.

With the addition of Hydraulic actuation, the Cylix is now capable of high closing force making it suitable for high glass filled applications and large shot, thick wall applications that require longer packing times.



Cylix is compatible with MX, BX and TX nozzle ranges and includes pin sizes ranging between  $\varnothing 2.0$ ,  $\varnothing 2.5$ ,  $\varnothing 3.0$  &  $\varnothing 5.0$ . Ideal for Small to Medium Automotive, Medium to Large Appliances and Large Part Electrical Applications.

With the ability to adjust valve pin height and incorporating long life seals, it is the optimal solution for precise control for your moulding requirements.

## Premium Carbide Tip Range

### Industry Leading 5 Year Warranty



Mastip's dedicated line of tips to withstand demanding applications is the G5 Carbide tip range.

Manufactured from Tungsten Carbide with Titanium Nitride (TiN) coating, the G5 tip range provides extreme resistance to abrasive and corrosive polymers.

Over the last 30 years, Mastip has extensive experience designing systems for demanding applications where abrasive and corrosive polymers are frequently used.

This has given Mastip the confidence to offer an Industry Leading 5 Year Warranty on our Premium G5 Carbide Tip range. This extensive warranty will cover abrasion and corrosion typically seen when processing engineering polymers.



# Gate Cooling Insert

## Optimised Cooling at the Gate

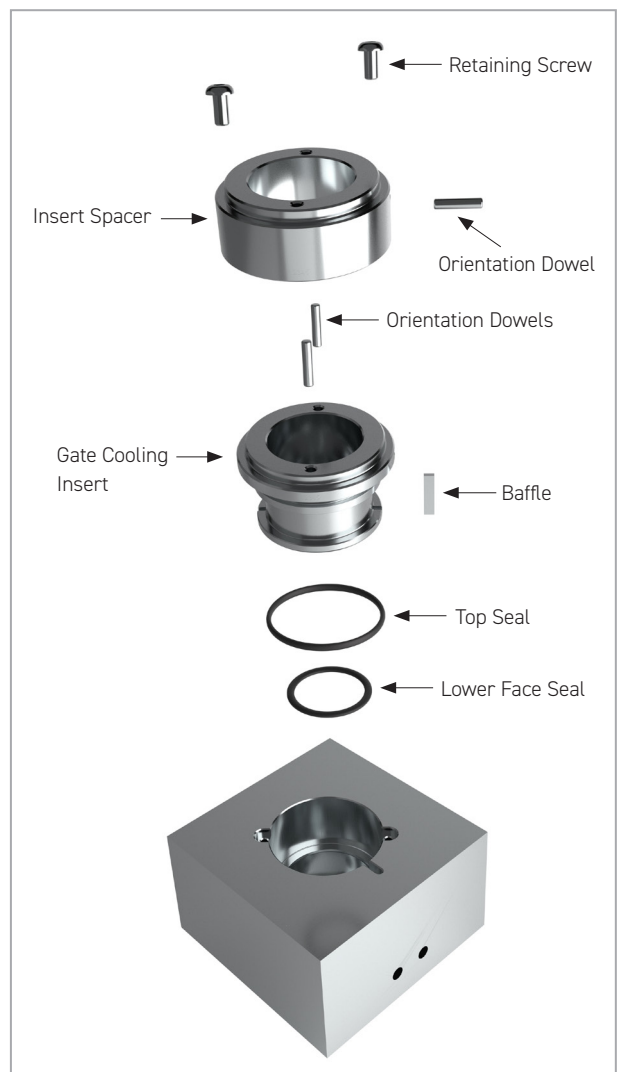
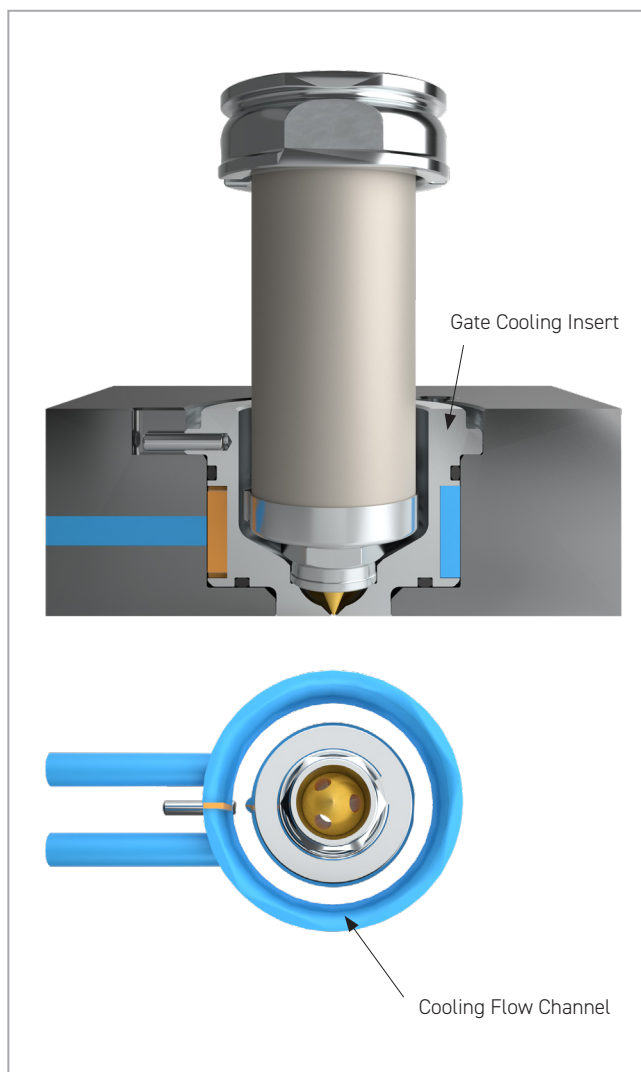
Gate Cooling Inserts improve hot runner thermal gate performance, ensuring a faster cycle time through optimum cooling at the gate.

Reducing the design and manufacturing requirements provides a quick return on investment, while the flexibility of interchangeable mould inserts lowers long-term costs and maintenance.

Featuring a simple pocket profile for easy machining and quick installation, gate inserts are ideal for front loading nozzle applications as they can be easily retained within the cavity plate during mould maintenance.

Gate Cooling Inserts are available for X13, X16, X19 and X27 nozzle series in standard lengths (36, 46, 56, 66, 76) to suit the required plate thickness.

Insert Spacers can be ground to customised sizes.



# X-Range YV Tipless Nut

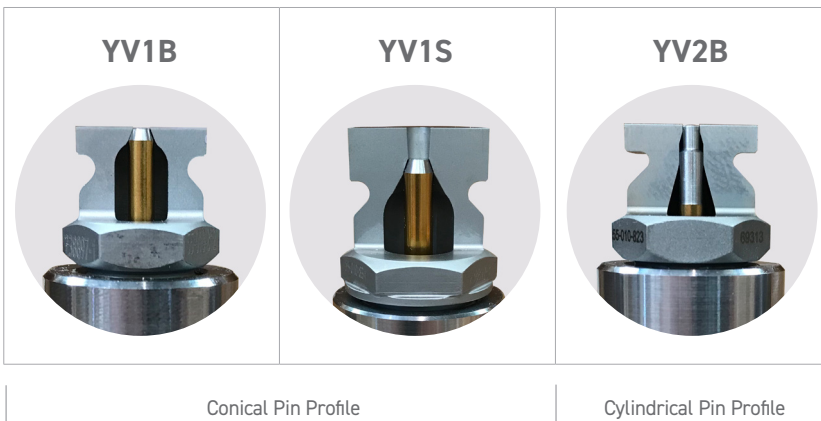
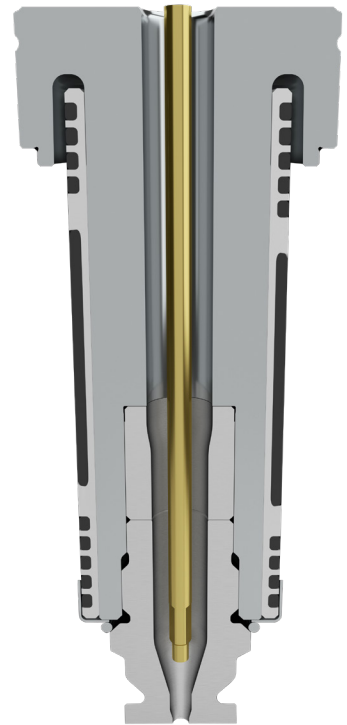
## Simplify Valve Gate Moulding

The YV Tipless Nut is engineered to simplify the needs of Valve Gate moulding requirements.

The YV valve nut functions without the need for a high-conductivity tip, providing open flow processing, minimising melt shear, lowering the overall pressure drop through the gate and providing an optimum repeatable processing window with a cosmetic gate.

YV valve nuts are ideal for processing residence sensitive polymers or aiding fast colour changes due to the continual movement of all polymer in the gate, shot after shot.

Mastip supplies Valve Pins in either Conical (1) or Cylindrical (2) profiling.



# METICOM Temperature Controllers

## Highly Capable CE Certified Temperature Controllers

Expanding on the METICOM range of controllers several new modular, integrated and touchscreen models are now available including the TM10, TM20, CTI, CIS-1 and CIS-2.



## Mastip is a leading supplier of innovative hot runner solutions to the global plastic injection moulding industry.

The company believes foremost in providing service and support, throughout the life cycle of the hot runner. This means you can be confident that spares and technical support is always available.

At Mastip we strive to understand our customers exact moulding requirements in order to deliver reliable and high performing solutions. Every Mastip system provides faster cycle times and material savings while producing quality components, all leading to higher efficiencies and a better return on investment.

### Market Solutions



#### Automotive

Mastip's extensive experience in highly cosmetic and structural parts means we can deliver a customised solution which will provide long-term reliability and performance.



#### Electrical

Mastip's comprehensive range of nozzles and valve gate solutions are able to withstand the corrosive and abrasive nature of Engineering polymers used for the electrical market.



#### Packaging

Mastip's valve gate solutions are ideal for the packaging market, delivering both the reliability and performance needed for fast-cycle thin-wall through to long-cycle thick-wall applications.



#### Caps and Closures

Mastip's high cavity hot half solutions, in either thermal or valve gate configuration, allow for maximum productivity while ensuring part quality is maintained even at fast-cycle times.



#### Engineering

Mastip's technical expertise and long-life components provide durable hot runner solutions manufactured from high-grade materials to withstand abrasive polymers.



#### Medical

Mastip's range of valve gate solutions are ideal for medical applications, producing fast cycle parts of exceptional surface quality while eliminating gate vestige.

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