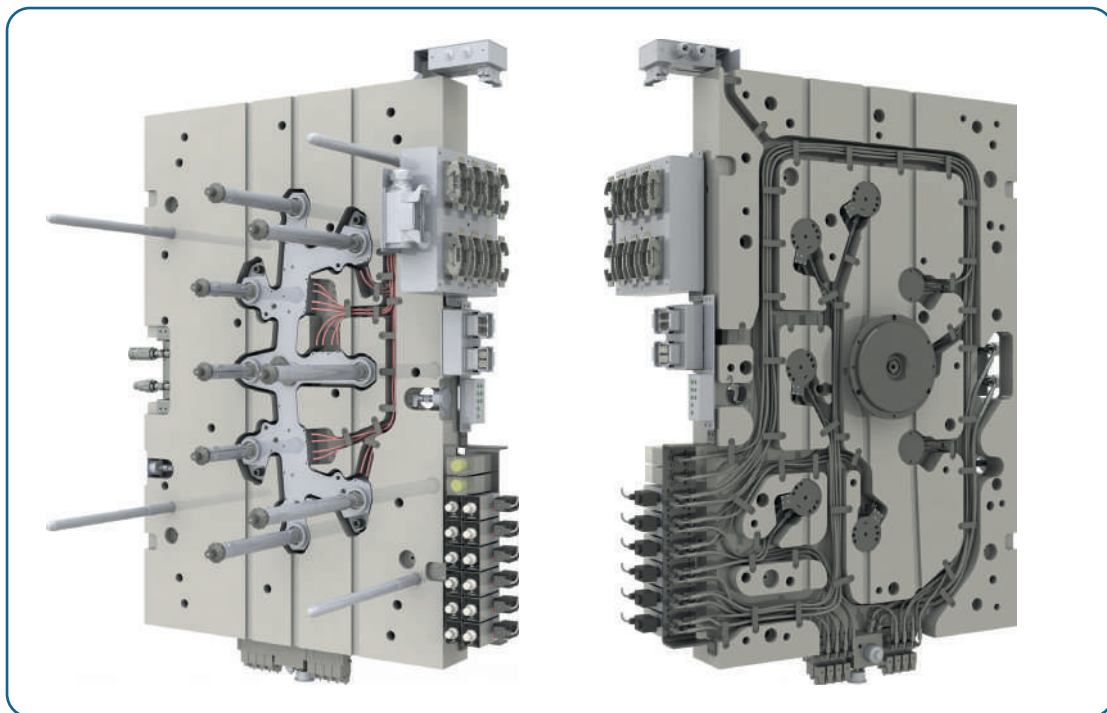


Hot half solution for plug & play and sequential hot runner systems.
Modulflow is a self-contained third part of the mold which includes the mechanical, thermal and hydraulic / pneumatic components.

PRODUCT HIGHLIGHTS

- ✔ **Compact thickness** : 105 mm to 150 mm (4.134" to 5.905") with clamping plate included and **maximum mold support**
- ✔ No cooling required on hot half plates
- ✔ Protected and separated electric and hydraulic components
- ✔ Nozzle tip, valve pin and bushing indexed (will always be in accurate position)
- ✔ High performance tip technology for aesthetical or glass fiber reinforced parts
- ✔ Available in hydraulic 100 bar, 50 bar and pneumatic
- ✔ Easy assembly and maintenance including guide pins
- ✔ Cylinders are in-line with nozzles



OPTION

Many standard solutions have been developed to suit all injection situations:

- | | |
|---|--|
| <ul style="list-style-type: none"> - 2k molds - Flow Control - Flow Driver | <ul style="list-style-type: none"> - Lateral injection - Fast color change - Increase L/Z ratio |
|---|--|

Designed to provide high performance injection in a compact environment.
MODULFLOW is available in 2 sizes: Class 1 & Class 2.

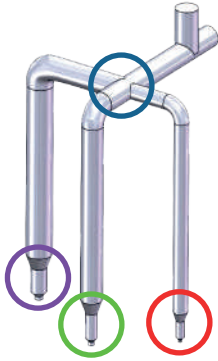
CLASS 1

NOZZLE A:

Ø 22 & 24 mm
 Needle Ø 8 mm
 Gate Ø 8 mm

NOZZLE B:

Ø 16, 18, 21 mm
 Needle Ø 6 mm
 Gate Ø 4, 5, 6 mm



MANIFOLD:

Ø 8, 10, 12, 14, 16,
 18, 20, 22 mm

NOZZLE C:

Ø 10, 12, 14 mm
 Needle Ø 5,5 mm
 Gate Ø 2, 3, 4 mm

CLASS 2

MANIFOLD:

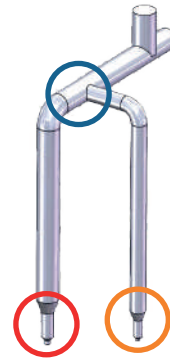
Ø 8, 10, 12, 14 mm

NOZZLE C:

Ø 8, 10, 12, 14 mm
 Needle Ø 5,5 mm
 Gate Ø 2, 3, 4 mm

NOZZLE D:

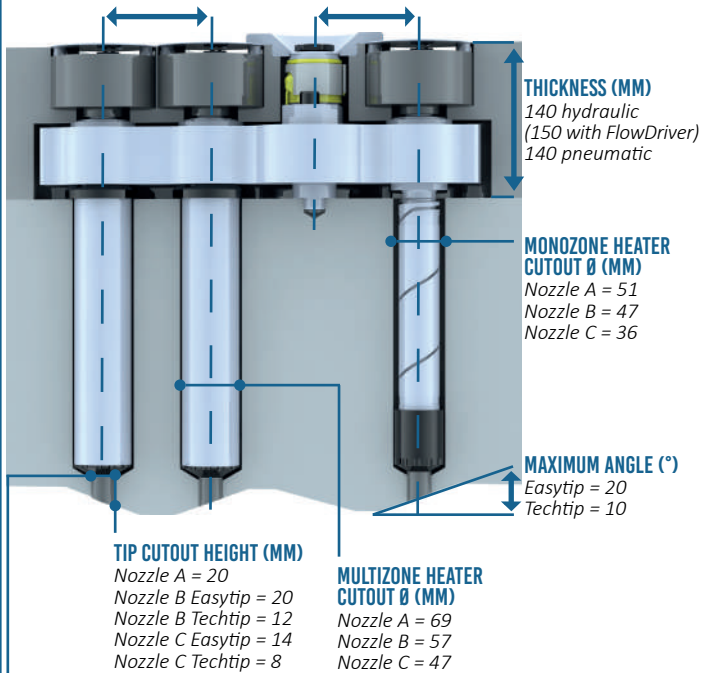
Ø 8, 10 mm
 Needle Ø 5,5 mm
 Gate Ø 1.2, 2 mm



CLASS 1

MINIMUM PITCH DISTANCE (MM)

Hydraulic 100 bar = 100
 Hydraulic 50 bar = 110
 Pneumatic 7 bar = 120



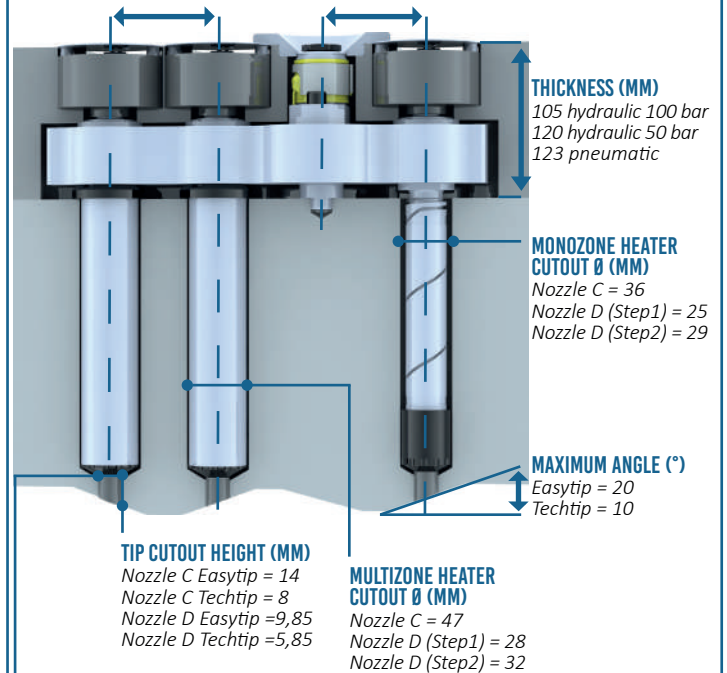
TIP Ø (MM)

Nozzle A = 28
 Nozzle B = 22
 Nozzle C = 15

CLASS 2

MINIMUM PITCH DISTANCE (MM)

Hydraulic 100 bar = 75
 Hydraulic 50 bar = 100
 Pneumatic 7 bar = 85



TIP Ø (MM)

Nozzle C = 15
 Nozzle D = 11

Cabletrunk solution for sequential hot runner systems.

Optimax is a prewired, prepiped system which includes the mechanical, thermal and hydraulic / pneumatic components.

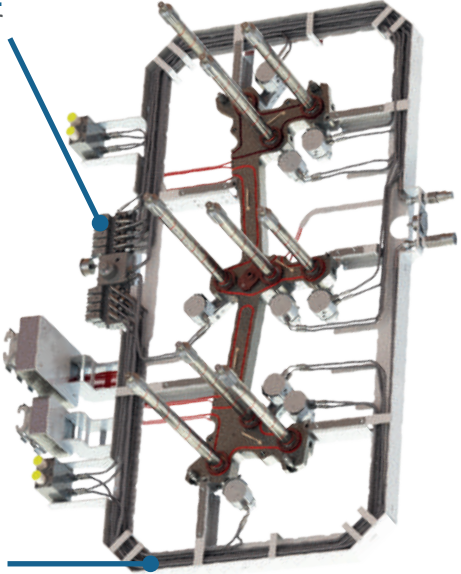
PRODUCT HIGHLIGHTS

- ✔ Cylinders are offset with nozzles : no cooling required
- ✔ Maximum mold support (outside mold cavity cable trunk design)
- ✔ Nozzle tip, valve pin and bushing indexed (will always be in accurate position)
- ✔ 100 bar, 50 bar and pneumatic
- ✔ Easy assembly and maintenance with rigid cabletrunk + columns option
- ✔ High performance tip technology for aesthetical or glass fiber reinforced parts

HYDRAULIC ELECTROVALVE INCLUDING:
oil filter, led, pressure regulator, manometer

COMPACT THICKNESS : 125 MM (4.921")

1 000 000 cycles warranty on mechanism



OPTIMAX



New ceramic, no wear axis
1 000 000 cycles warranty

Colorex plug implementation possible / Needle guide designed for technical materials / Improved sealed needle guide for PP



Position sensor

RHEOLOGY

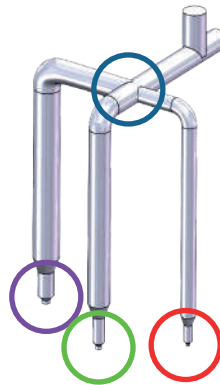
Standard diameters to suit all injection needs.

NOZZLE A:

Ø 22 & 24 mm
Needle Ø 8 mm
Gate Ø 8 mm

NOZZLE B:

Ø 16, 18, 21 mm
Needle Ø 6 mm
Gate Ø 4, 5, 6 mm



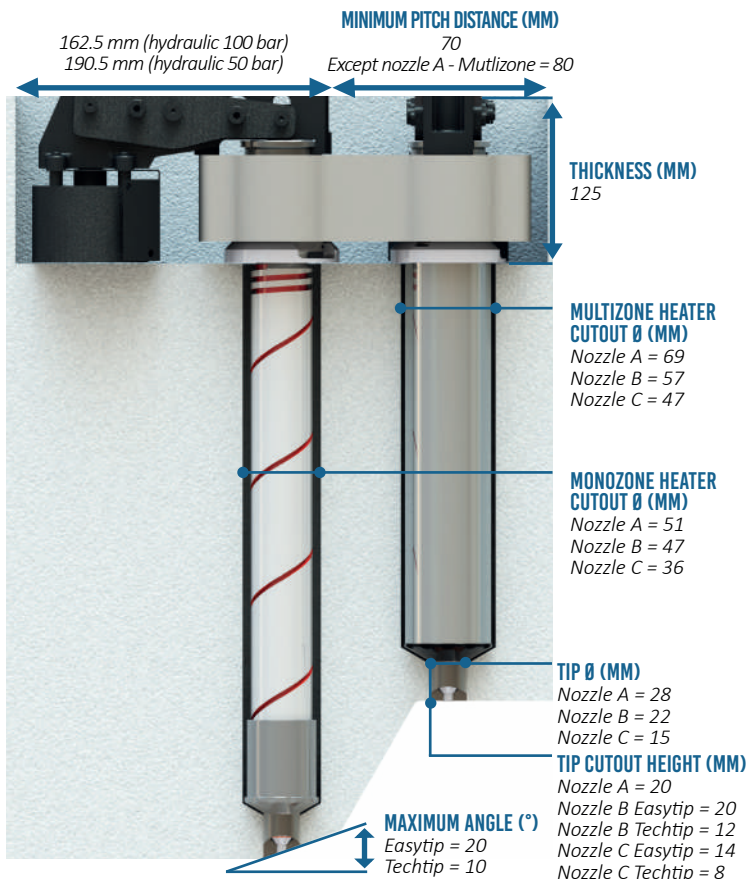
MANIFOLD:

Ø 8, 10, 12, 14, 16,
18, 20, 22 mm

NOZZLE C:

Ø 10, 12, 14 mm
Needle Ø 5,5 mm
Gate Ø 2, 3, 4 mm

COMPACT DESIGN



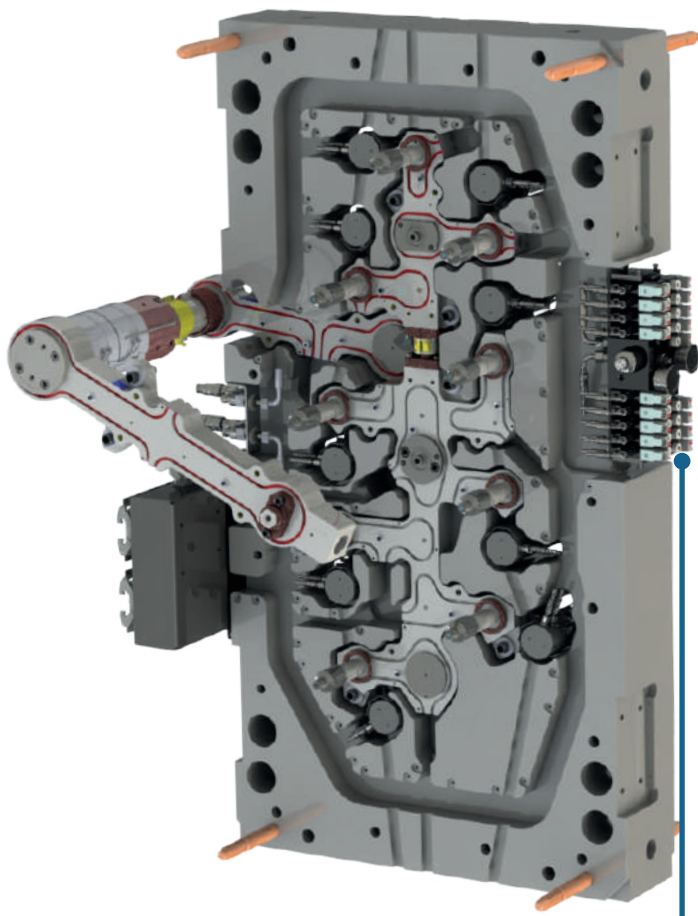
Many standard solutions have been developed to suit all injection situations:

- 2k molds
- Fast color change
- Increase L/Z ratio
- Flow Control, Flow Driver
- Lateral injection

A compact and coolant free self contained middle part of the mold which includes the mechanical, thermal, hydraulic components and an innovated automatic mechanical transfer nozzle for stack molds.

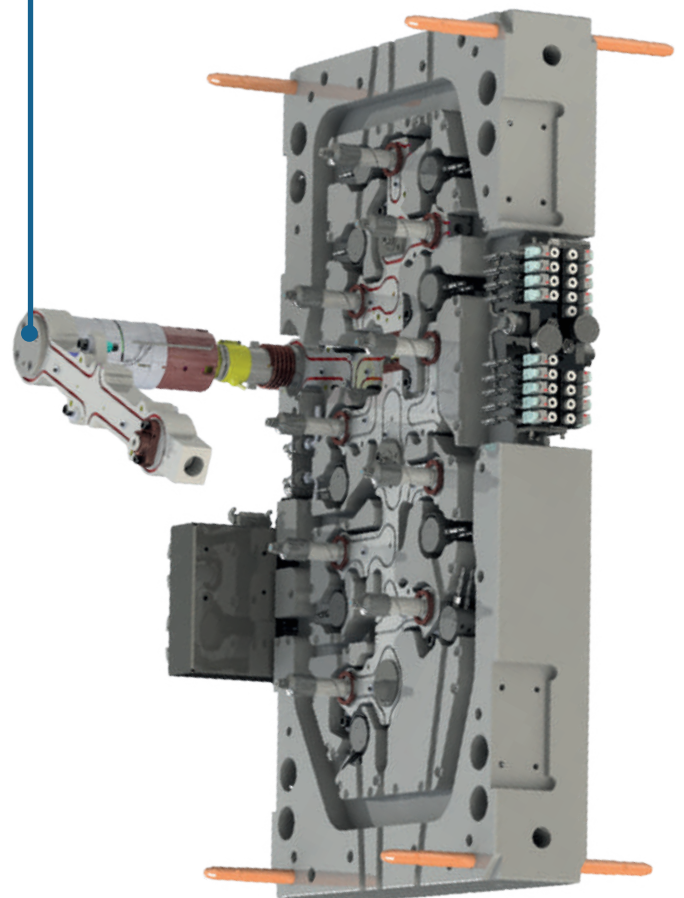
PRODUCT HIGHLIGHTS

- ✔ **Very compact middle plate thickness: 132 to 210mm (5.196" to 8.267")**
- ✔ Cylinders are offset with nozzles : no cooling required
- ✔ Automatic mechanical transfer nozzle without waste: only requires clamp force, very easy to use, reliable and leak proof
- ✔ Transfer nozzle position is designed to suit your application: in the center or at the bottom of the mold
- ✔ Available in shifted nozzles version (one manifold) and opposite nozzles version (two manifolds)
- ✔ Nozzle tip, valve pin and bushing indexed (will always be in accurate position)
- ✔ Easy assembly and maintenance including guide pins
- ✔ Maximum mold support (no cable trunk)



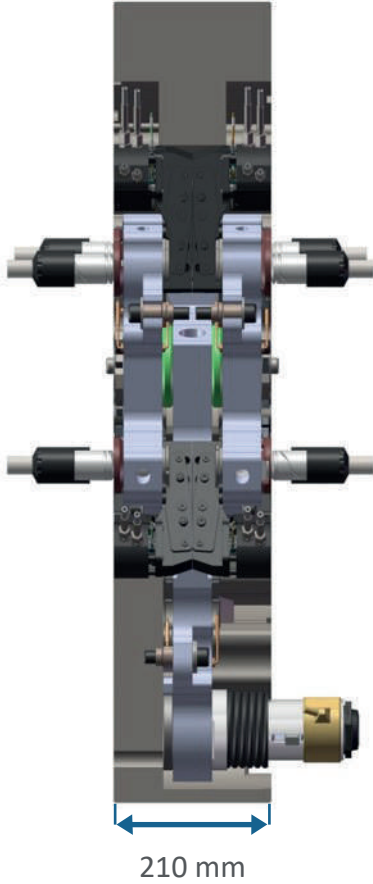
HYDRAULIC ELECTROVALVE INCLUDING:
oil filter, led, pressure regulator, manometer

AUTOMATIC TRANSFER NOZZLE



OPPOSITE NOZZLES

Two manifolds version



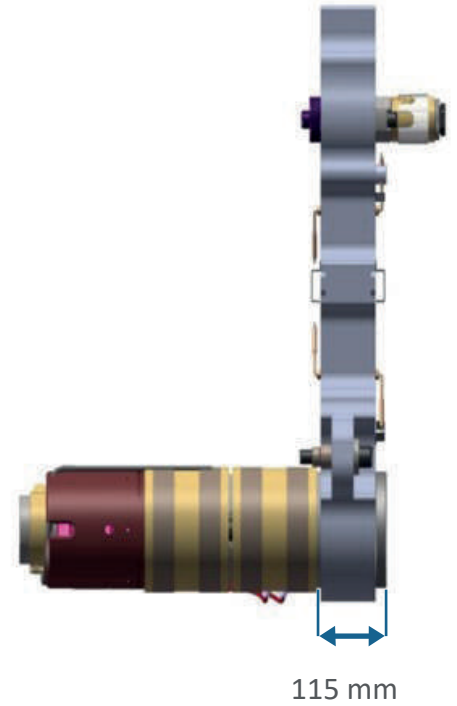
SHIFTED NOZZLES

One manifold version



FIX PART

on the mold

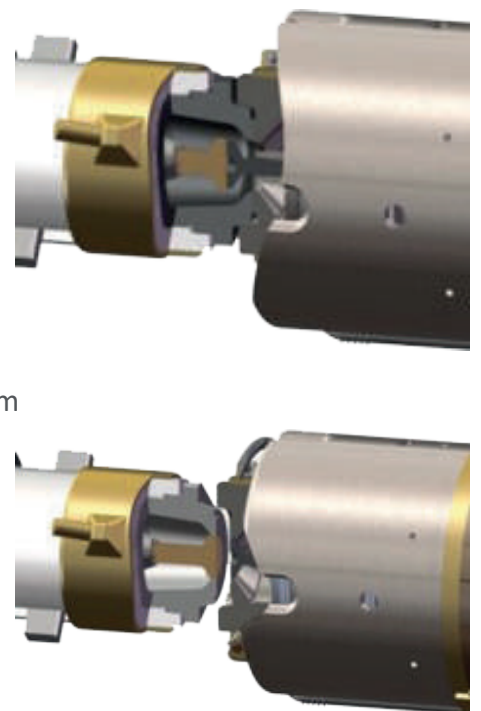


MOLD CLOSED POSITION:
open automatically

AUTOMATIC MECHANICAL
transfer nozzle without waste



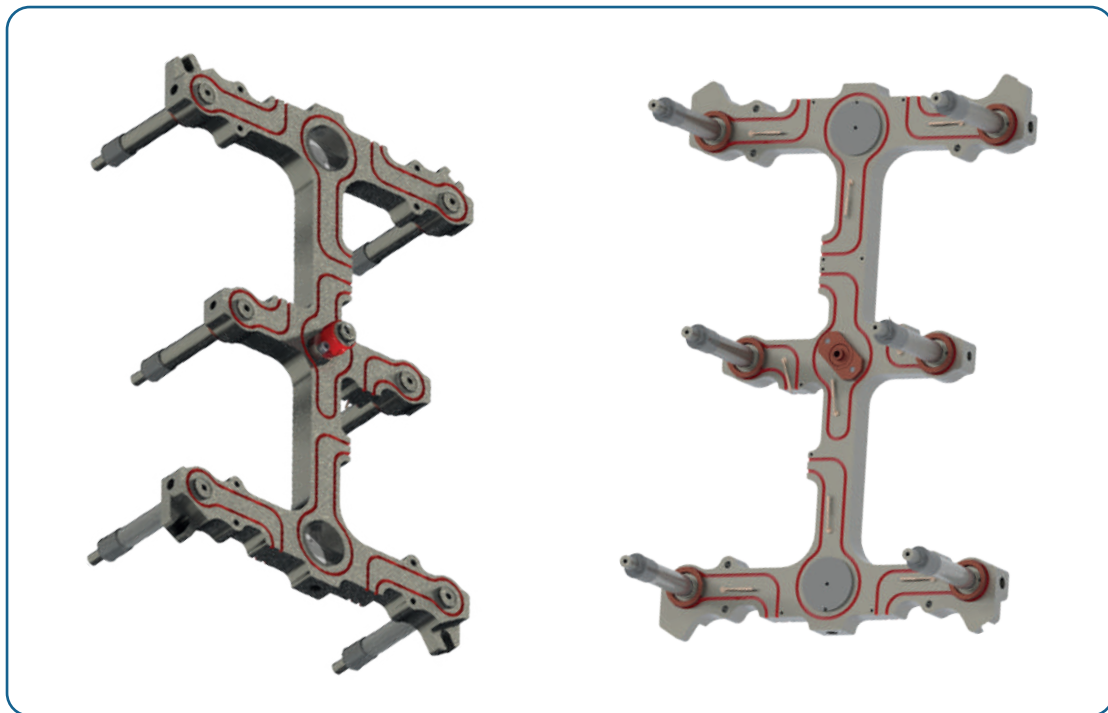
MOLD OPEN POSITION:
closed automatically



Thermal gate hot runner systems.

PRODUCT HIGHLIGHTS

- ✔ **Compact thickness: 70 mm (class 1)**
- ✔ Nozzle tip and nozzle position indexed (will always be in an accurate position)
- ✔ Available with or without cabletrunk
- ✔ High performance tip technology for aesthetical or glass fiber reinforced parts:
 - ✔ Techtip for all materials
 - ✔ Pinpoint or freeflow



CANALFLOW

FREE FLOW:



Recommended for glass fiber filled plastics

PIN POINT:



Recommended for high vestige quality and gate string prevention

RHEOLOGY

Standard diameters to suit all injection needs.

NOZZLE A:

Not available

NOZZLE B:

Ø 16, 18, 20 mm
Gate Ø 3, 4, 5 mm



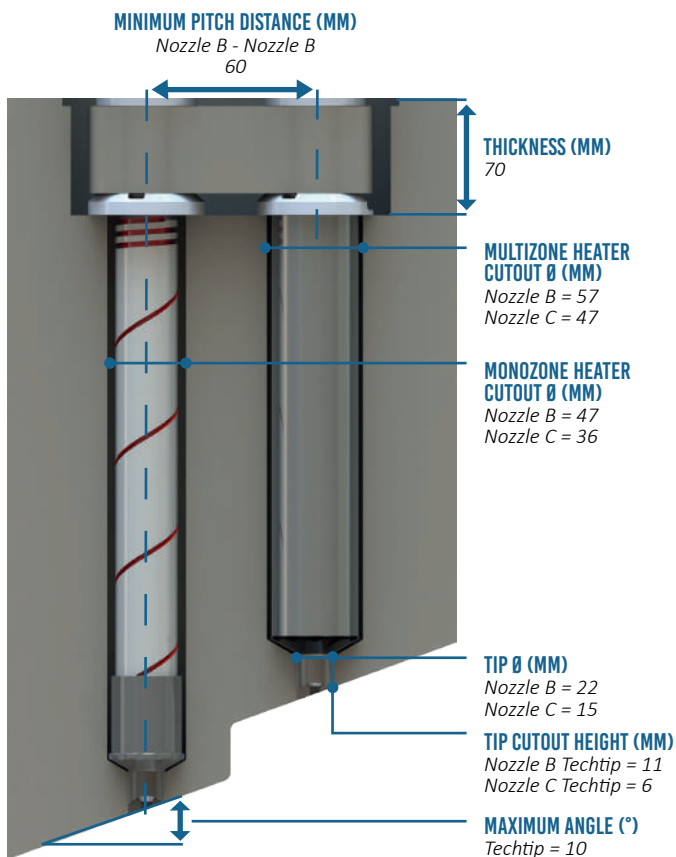
MANIFOLD:

Ø 10, 12, 14, 16,
18, 20 mm

NOZZLE C:

Ø 10, 12, 14 mm
Gate Ø 2, 3, 4 mm

COMPACT DESIGN



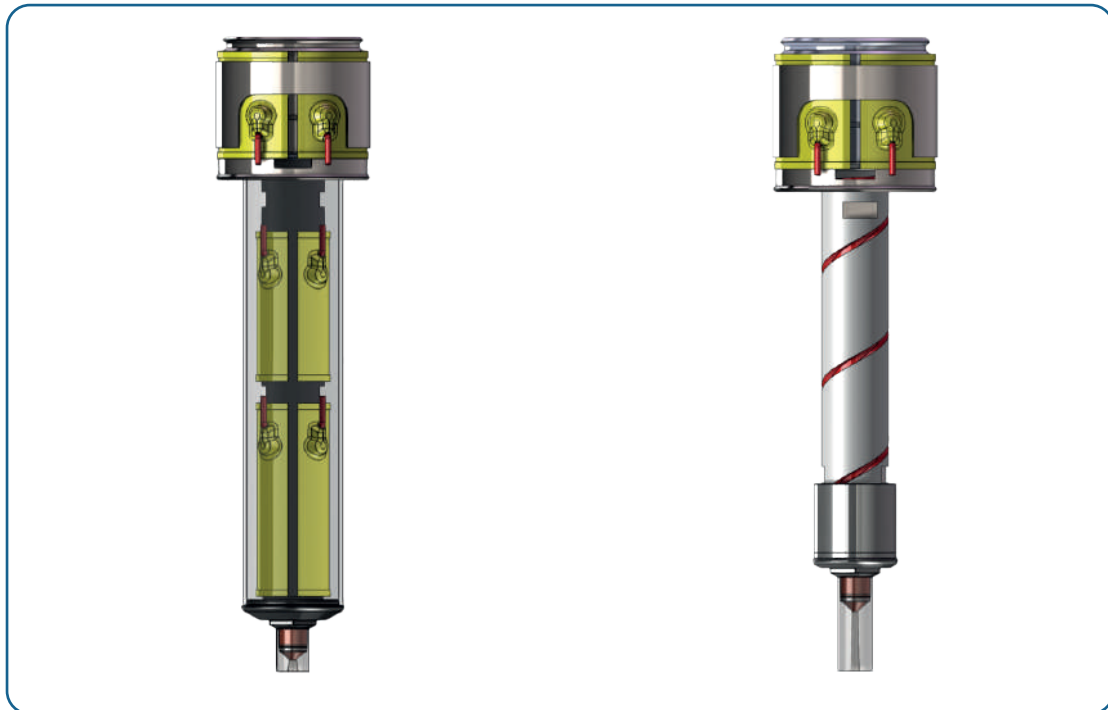
Many standard solutions have been developed to suit all injection situations:

- ☑ 2k molds
- ☑ Fast color change
- ☑ Increase L/Z ratio

Open gate single nozzle.

PRODUCT HIGHLIGHTS

- ✔ Heated head
- ✔ Nozzle tip and nozzle position indexed (will always be in an accurate position)
- ✔ Removable and hardened nozzle seat
- ✔ Available with or without cabletrunk
- ✔ High performance tip technology for aesthetical or glass fiber reinforced parts:
 - ✔ Techtip for all materials
 - ✔ Easytip for polyolefins
 - ✔ Pinpoint or freeflow

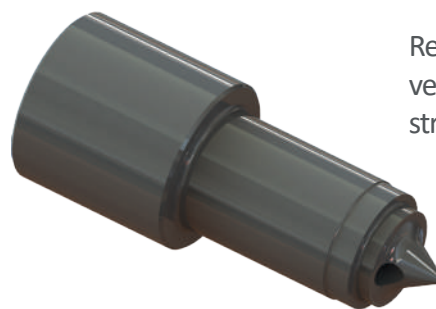


FREE FLOW:



Recommended for glass fiber filled plastics

PIN POINT:



Recommended for high vestige quality and gate string prevention

TECHNICAL FEATURES

Standard diameters to suit all injection needs and compact design

CLASS 1

NOZZLE A:

Not available

NOZZLE B:

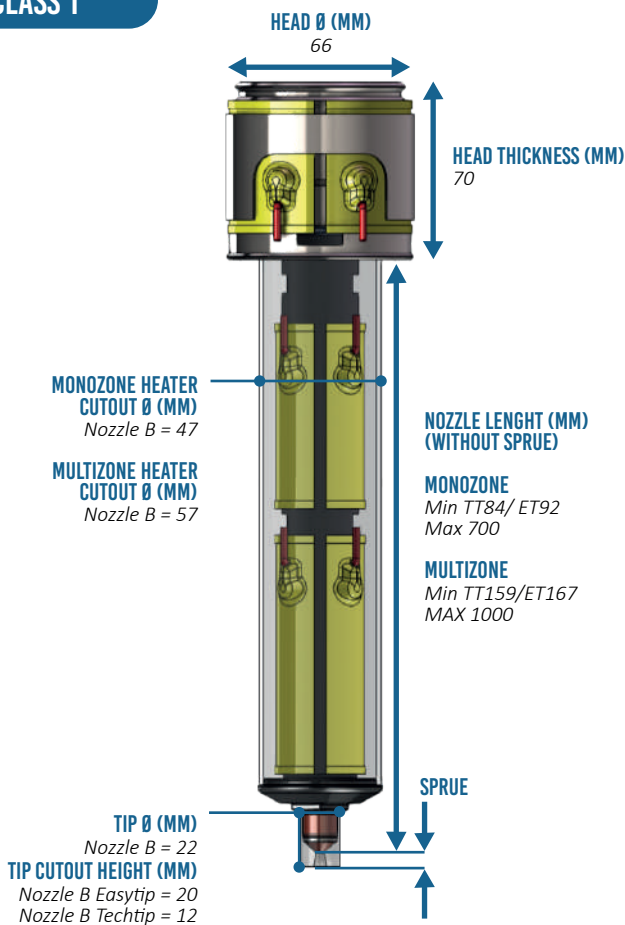
Ø 16, 18, 20 mm
Gate Ø 3, 4, 5 mm

CLASS 2

NOZZLE C:

Ø 10, 12, 14 mm
Gate Ø 2, 3, 4 mm

CLASS 1



CLASS 2

