

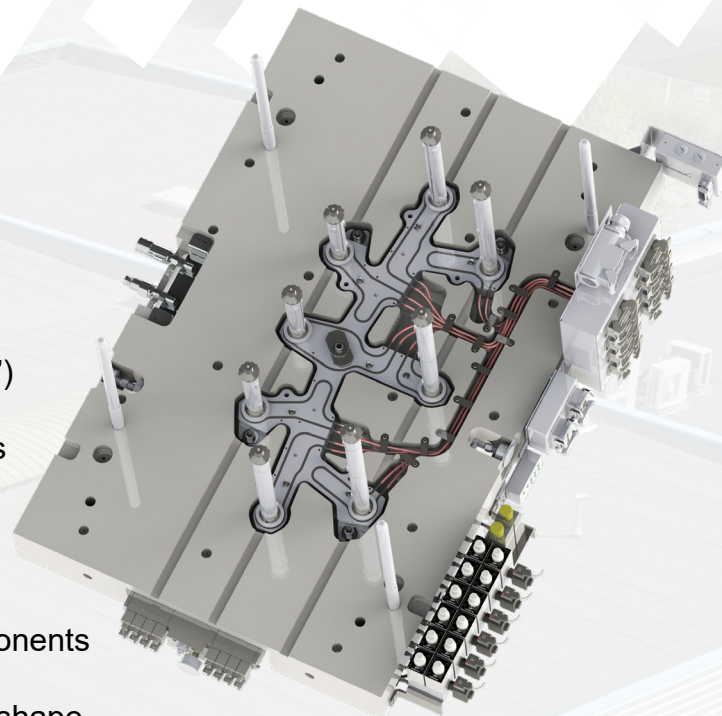
# MODULFLOW

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



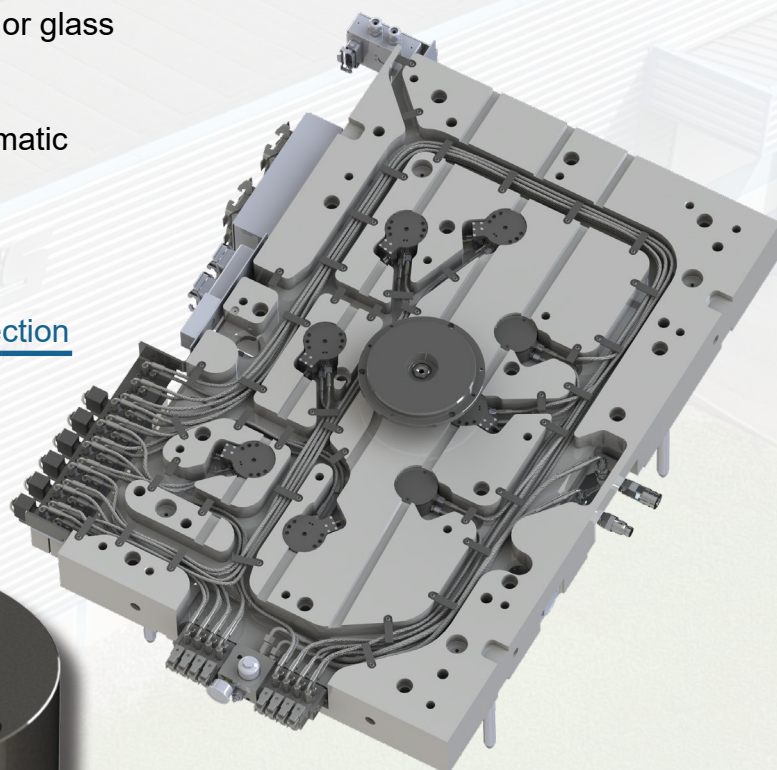
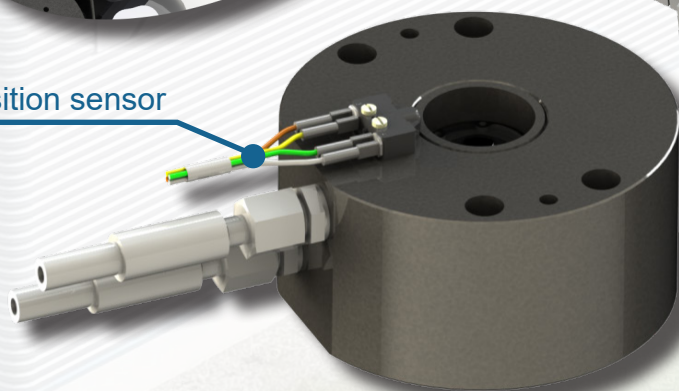
## Product Highlights

- Cylinders are in-line with nozzles
- No cooling required on hot half plates
- Maximum mold support (no cable trunk)
- Compact thickness : 105 to 150 mm (4.134" to 5.905")
- Easy assembly and maintenance including guide pins
- Nozzle tip, valve pin and bushing indexed (will always be in accurate position)
- Protected and separated electric and hydraulic components
- Superior rheology inside the manifold : free manifold shape
- High performance tip technology for aesthetical or glass fiber reinforced parts
- Available in hydraulic 100 bar, 50 bar and pneumatic



Near center injection

Position sensor





# MODULFLOW

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



Designed to inject medium to large size parts 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

For PP application And / Or  
system with color change requirement.



Modulflow is designed to provide high performance injection in a compact environment

## Class 1

### Minimum pitch distance (mm)

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

### Thickness (mm)

140 hydraulic  
(150 with Flow driver)  
140 pneumatic

### Monozone heater

Cutout Ø (mm)  
Nozzle A = 51  
Nozzle B = 47  
Nozzle C = 36

### Multizone heater

Cutout Ø (mm)  
Nozzle A = 69  
Nozzle B = 57  
Nozzle C = 47

### Maximum angle (°)

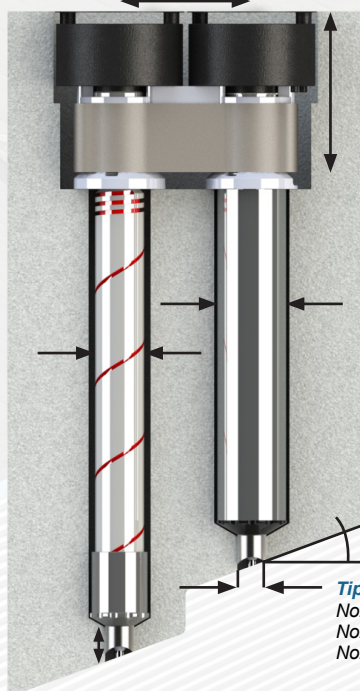
Easytip = 20  
Techtip = 10

### Tip cutout height (mm)

Nozzle A = 20  
Nozzle B Easytip = 20  
Nozzle B Techtip = 12  
Nozzle C Easytip = 14  
Nozzle C Techtip = 8

### 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

### Thickness (mm)

105 hydraulic 100 bar  
120 hydraulic 50 bar  
123 pneumatic

### Monozone heater

Cutout Ø (mm)  
Nozzle C = 36

### Multizone heater

Cutout Ø (mm)  
Nozzle C = 47

### Maximum angle (°)

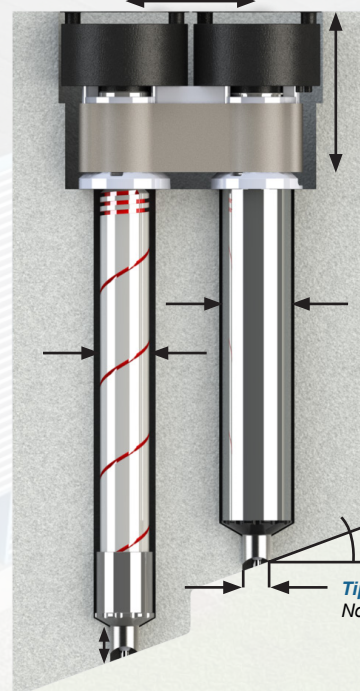
Easytip = 20  
Techtip = 10

### Tip cutout height (mm)

Easytip = 14  
Techtip = 8

### Tip Ø (mm)

Nozzle C = 15



Many standard solutions have been developed to suit all injection situations

- Long glass fiber material (lgf)
- 2k molds
- Flowcontrol, flow driver
- Lateral injection

- Technical materials
- Fast color change
- Unfavorable l/z ratio
- Wood or textile overmolding

