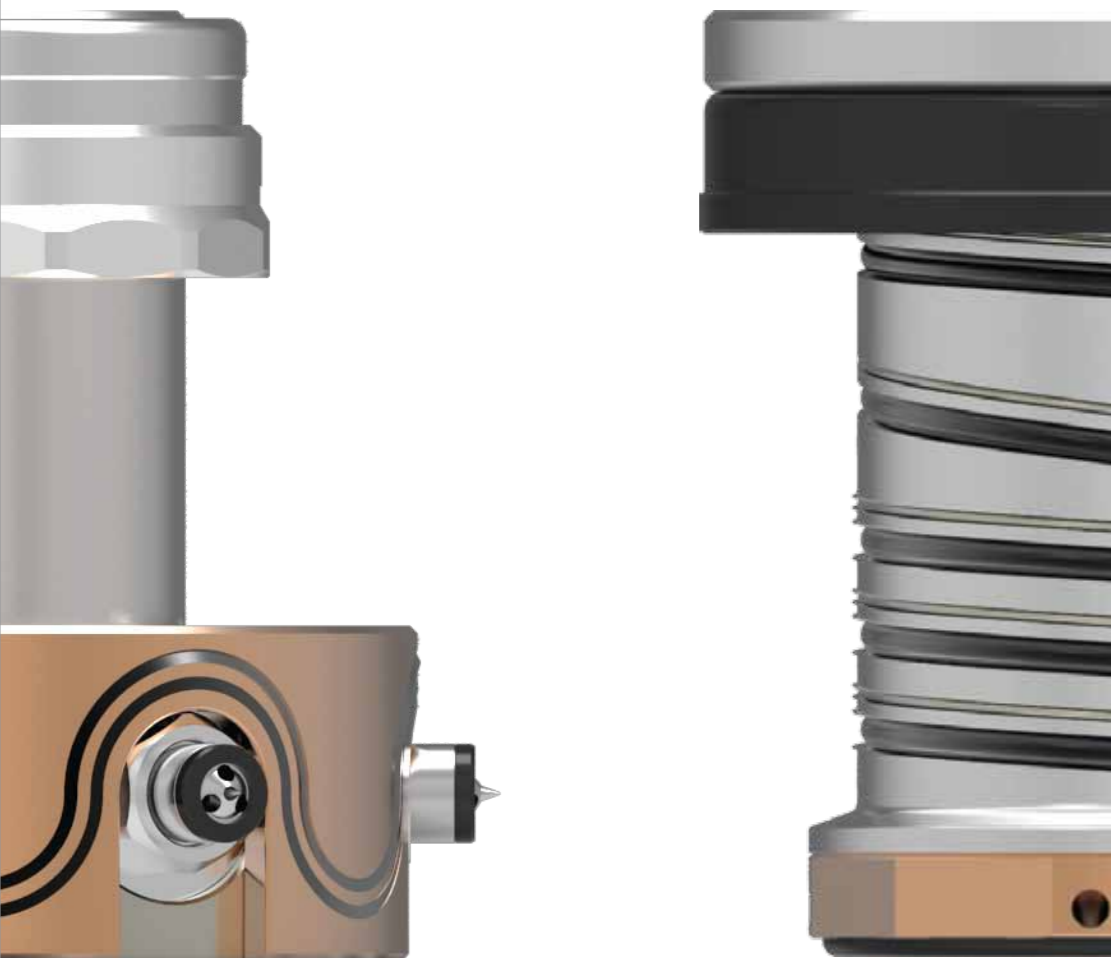


# SIDE GATE



## SIDE POINT

Over P. C. D 122 / ENPLA Resin

PP | PBT | PBT<sub>G</sub>/F15%  
PA66 | PA66<sub>G</sub>/F30% | PC<sub>G</sub>/F30%

## EDGE POINT

Within P.C.D 56 - 120 / General Resin

PP | HIPS | PMMA | ABS



# SIDE GATE

Beyond the existing gate type  
**Gating on the side of the item**

for New applications & High quality products

Ver.1.0 SIDE GATE BR (2013-August) ▶ We reserve the right to change specifications without notice.

# Feature

## Easy to Use

/\*Side gating without parting by TS spring structure  
/ Easy assembly to mold

\* TS spring | Special spring with high elasticity, heat-resistant material

## Keep the Heat

/ Apply copper-embedded heater at tip (H/T, T/C embedding)  
/ Use insulation flange bush  
/ Add insulin at tip

## Make it Possible

/ Suitable for micro application with difficult gate composition  
/ Multiple gate with minimum pitch (1 nozzle up to 8 cavity)

# Application

## Packaging



Automotive / Push button, etc.



Home appliance / Connector, etc.



# SIDE POINT



## Flange bush

-Use insulation flange bush  
-Optimize heat loss/  
Increase 10~15% of thermal efficiency



## Tip heater

-Optimize thermal balance  
-Apply copper-embedded heater at tip  
-Embed heater and control sensor



## Nozzle

-Tube heater applied  
-Control nozzle body



## Nozzle tip

-Tip assembly structure  
-Enhance thermal balance by heat conducting material  
-Melt channel divided at tip fore-end



## Flow line

-Melt channel divides at tip and connects to parts



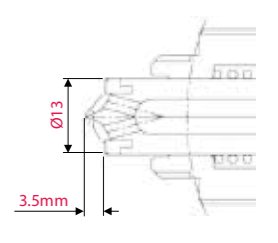
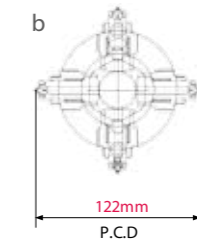
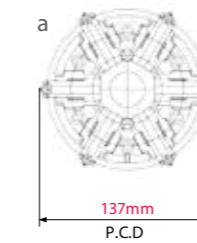
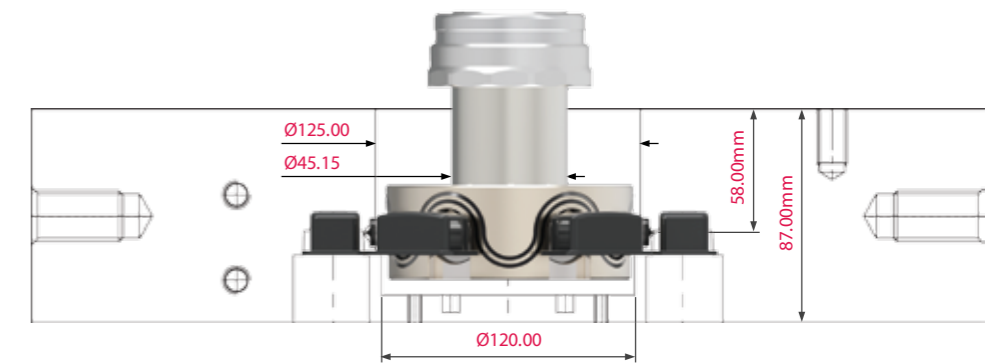
## Tip

-Union assembly structure  
-Apply thermal conducting material / Thermal balance improvement  
-Add insulin at tip fore-end  
-Optimize heat loss



## Mold assembly

-Tip assembly structure  
-Apply thermal conducting material >> Enhance thermal balance  
-Divided melt channel at tip fore-end



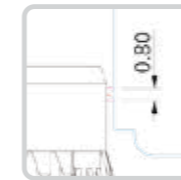
	Cavity	Gate P.C.D	Parting-Union	Union	Block height
a	6 Cavity	137	3.5mm	Ø13	46mm
b	4 Cavity	122			

# EDGE POINT



## Nozzle

-Heater embed  
-Thermocouple embed  
→ Optimize thermal balance



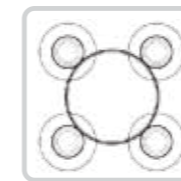
## Gate

Ø0.8 Half trapezoidal shape



## Flange bush

-Use insulation flange bush  
-Minimize heat loss /  
Increase 10~15% of thermal efficiency



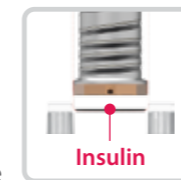
## Mold machining

Round machining up to 8cavity by parts



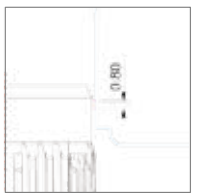
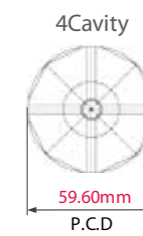
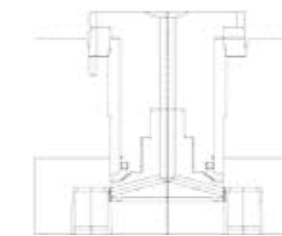
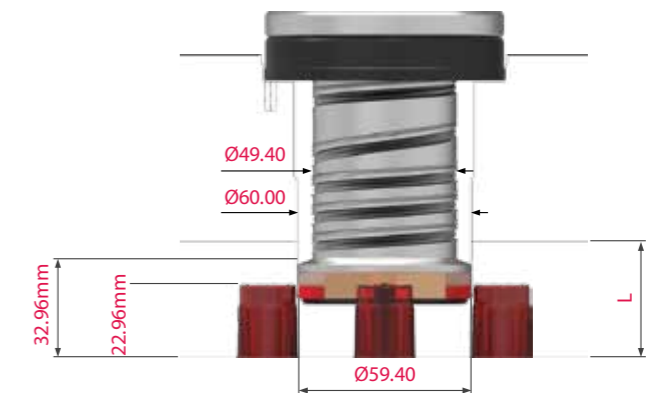
## Tip

-Tip assembly structure  
-High thermal conductivity material applied  
/ Enhancement of thermal balance



## Mold assembly

Apply insulin to cavity plate



Gate P.C.D	Gate	Shape
59.60mm	Ø0.8	Trapezoidal