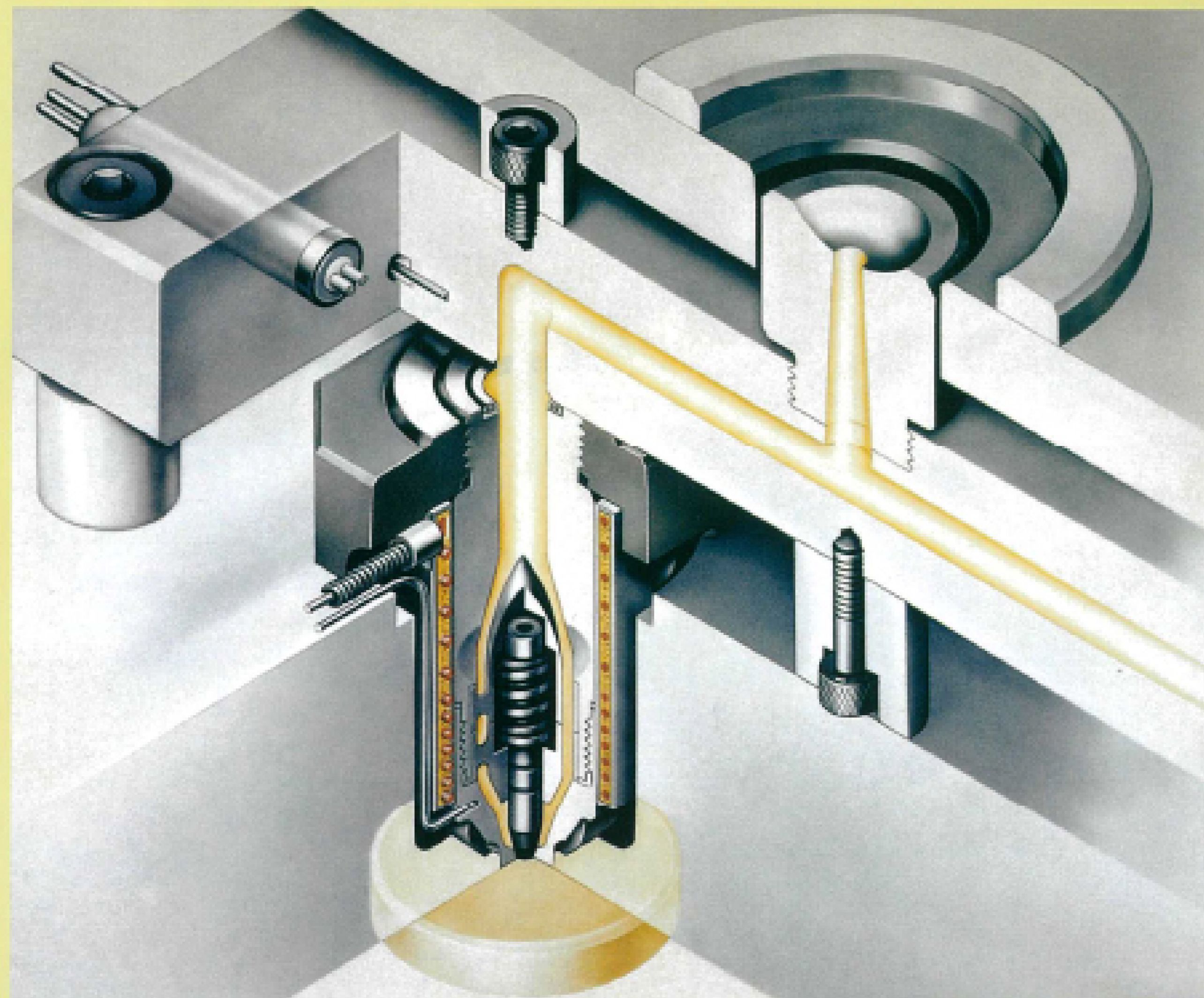


飞沙獨特的針閥式噴嘴(PLAGATE)系統，能滿足用戶各個方面要求。

FISA'S original valve-gate system, practically designed to meet the needs of the customer.

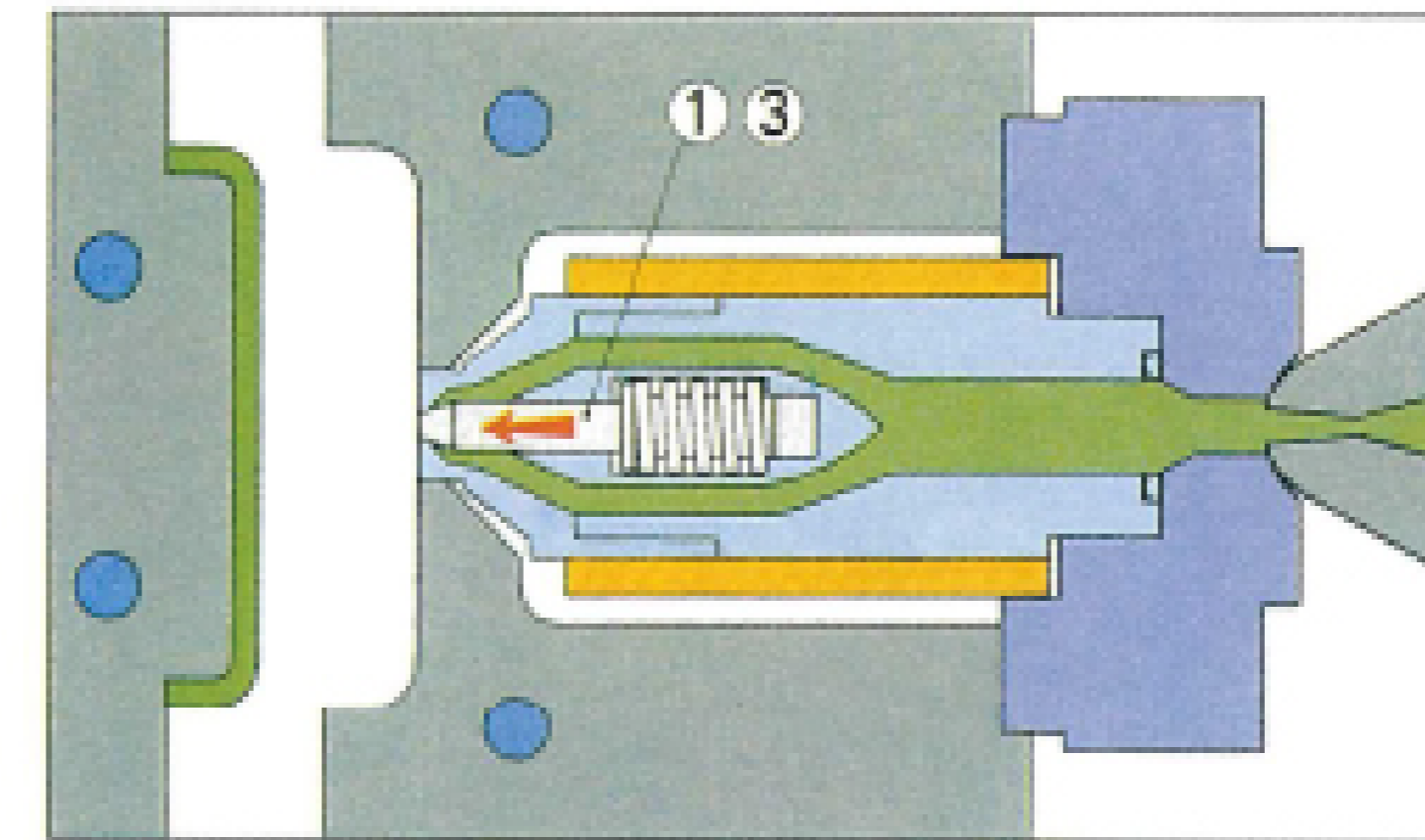
飞沙針閥式噴嘴 NH 型是安裝在塑膠模具上，用于可塑性塑膠的注塑成型。這是無澆道注塑成型的熱流道系統。針閥式噴嘴不需要外部的驅動裝置，利用注塑壓力作為動力來自動控制針閥的開關。這是飞沙獨特的針閥式噴嘴系統。

Plagate is FISA's original hot runner system, equipped with a special valve-mechanism. The NH-type Plagate hot runner nozzle is mounted to the die, and used in the automatic injection molding of thermoplastics. 100% Of material is utilized, leaving no sprues or runners. For the NH-type Plagate nozzle, no external driving force is needed to open or close the gate. The gate is opened and closed automatically by an injection-pressure operated valve.



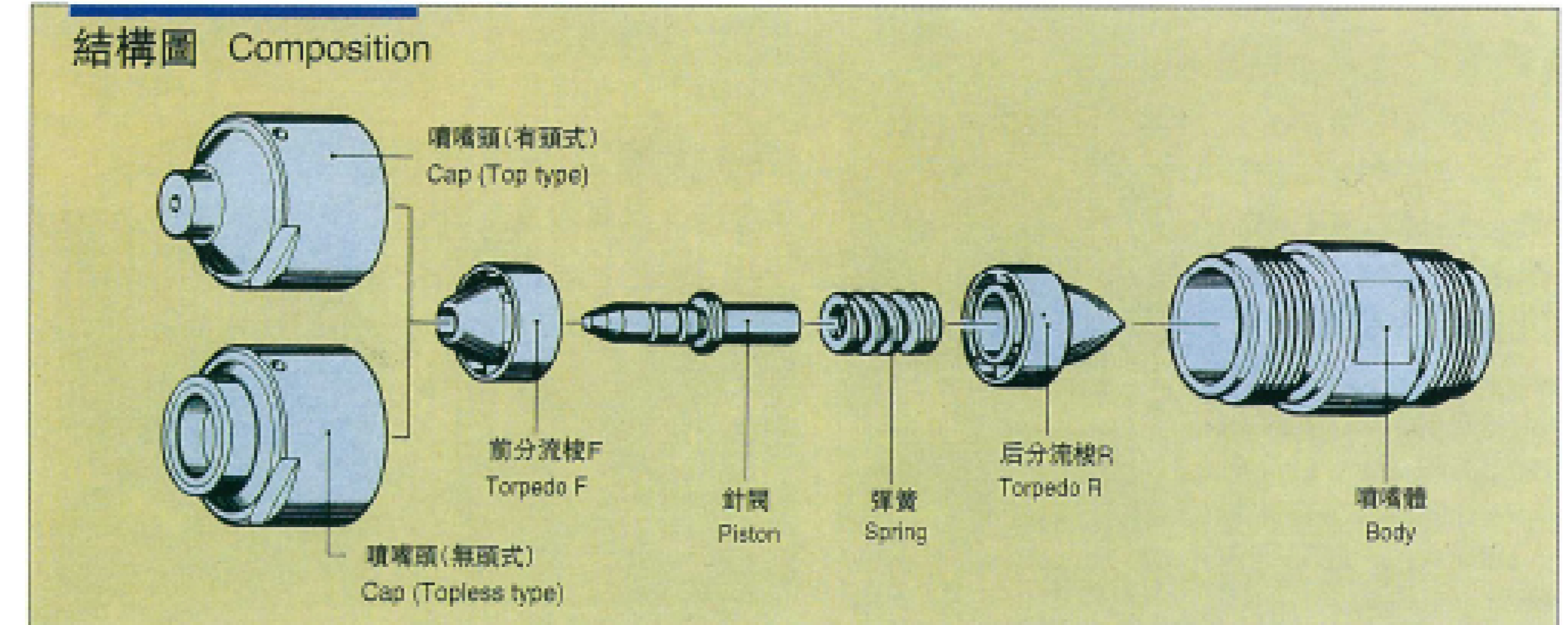
利用注塑壓力作為動力來實現針閥的開關系統。

The gate is opened and closed by the pressure of the resin in the nozzle.

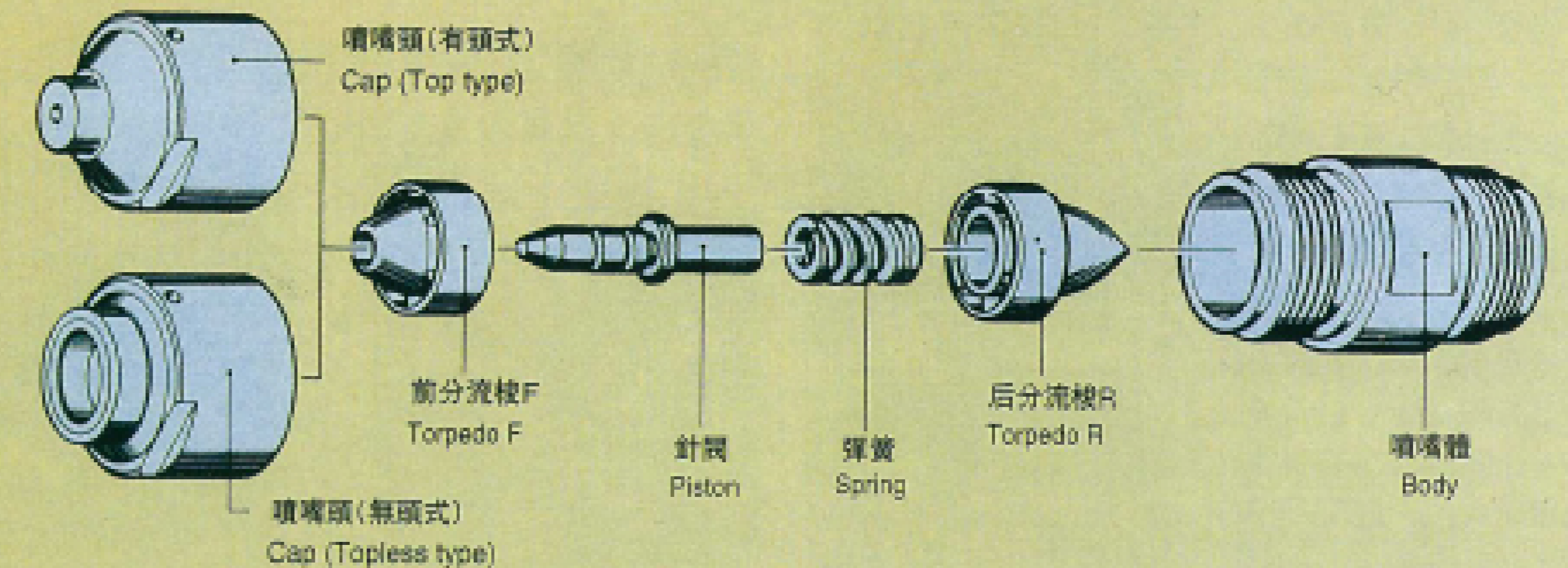


■ 噴嘴動作原理。

- ① 當沒有注塑壓力時，彈簧的彈力使針閥保持關閉狀態。
- ② 當受到注塑壓力時，注塑壓力使針閥後退，噴嘴口被打開。
- ③ 當模具型腔被塑膠充滿後，注塑壓力下降，彈簧的彈力將針閥自動頂上，噴嘴口被關閉。



結構圖 Composition



■ Principles of the Plagate Nozzle

- ① When there is no resin in the gate, the spring exerts pressure on the piston, closing the gate.
- ② When resin flows into the gate, the piston slides back, opening the gate.
- ③ When cavity is full with resin, the pressure of resin on the piston is equal, then the spring exerts pressure on the piston, closing the gate.

飞沙針閥式噴嘴(PLAGATE)的多種功能!

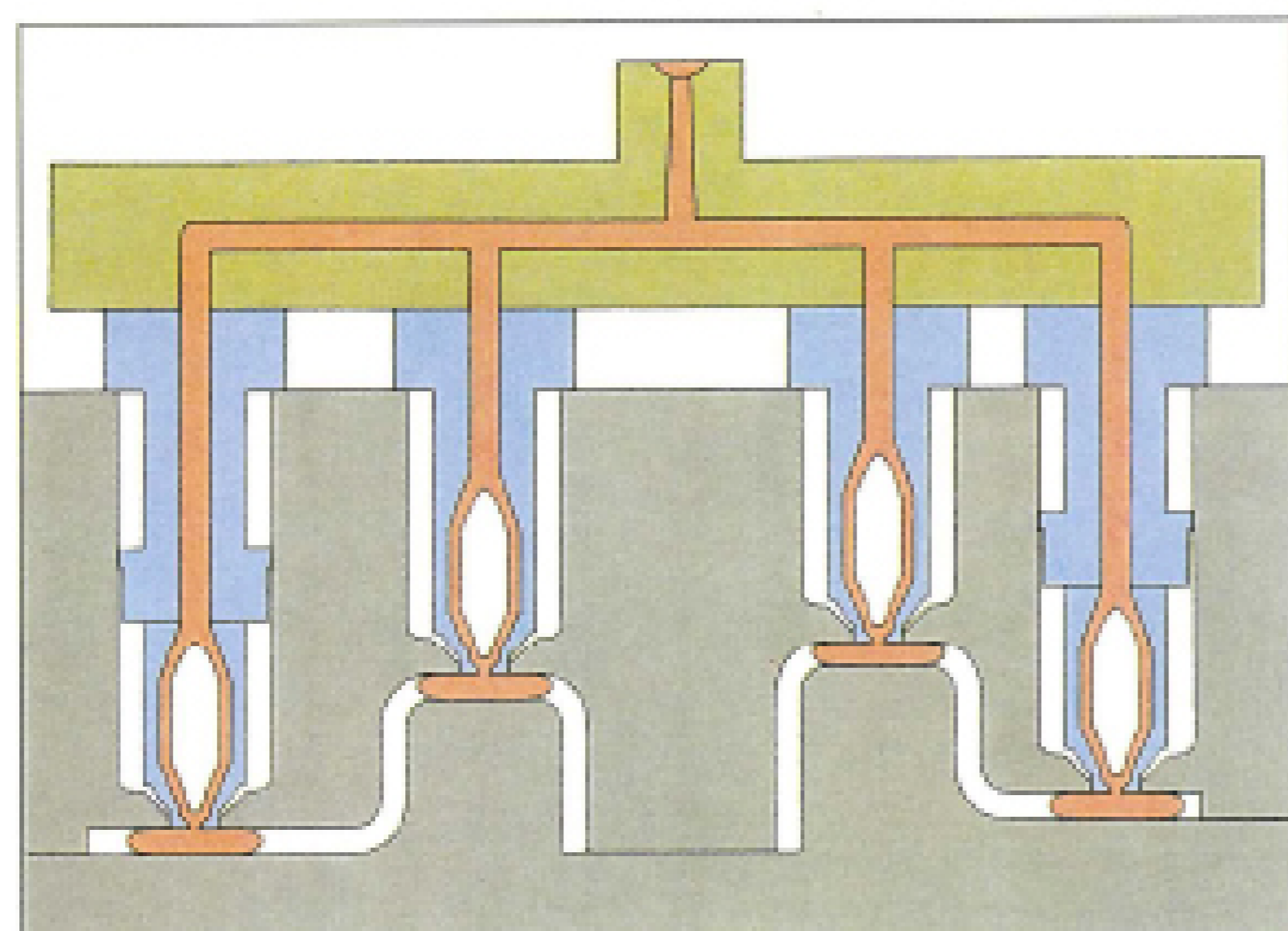
Versatility and ease of use with the Plagate Nozzle!

■各澆口平衡性良好。

飞沙針閥式噴嘴，由于各噴嘴內受壓力相同，針閥會同時打開。不會產生由澆口不平衡造成的成型不良。

■Well-balanced gate for multicavity production.

Multicavity gates open only after the pressure in all nozzles is equal, thus all nozzles open and close simultaneously. This also prevents the nozzles from injecting uneven amounts of resin, insuring continuity in production.

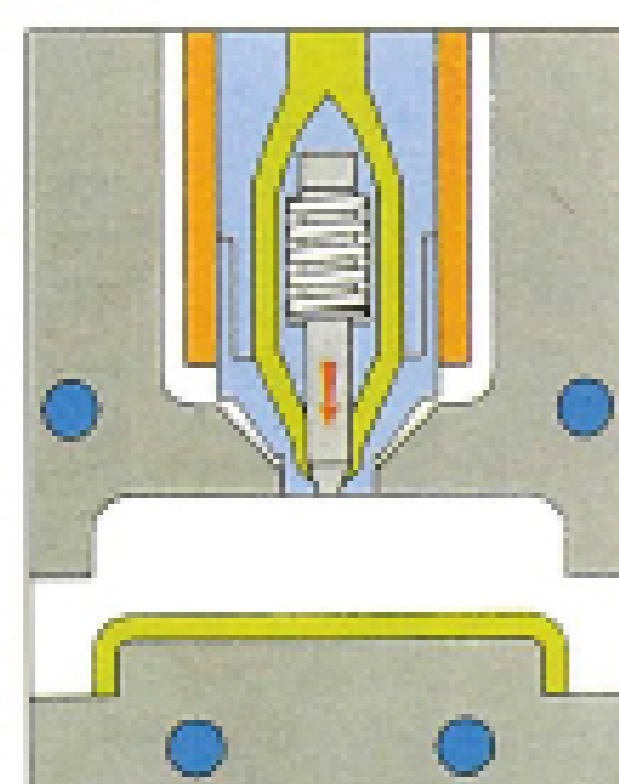


■噴嘴口關閉非常可靠。

針閥受彈簧彈力的作用，可將噴嘴口完全關閉。不會產生抽絲和澆口部突出的現象。

■Perfect Gate-seal

The perfect sealing of the gate, through the use of a powerful spring and piston, eliminates problems normally encountered with stringing or drooling of resin, as well as unwanted stubs or projections.

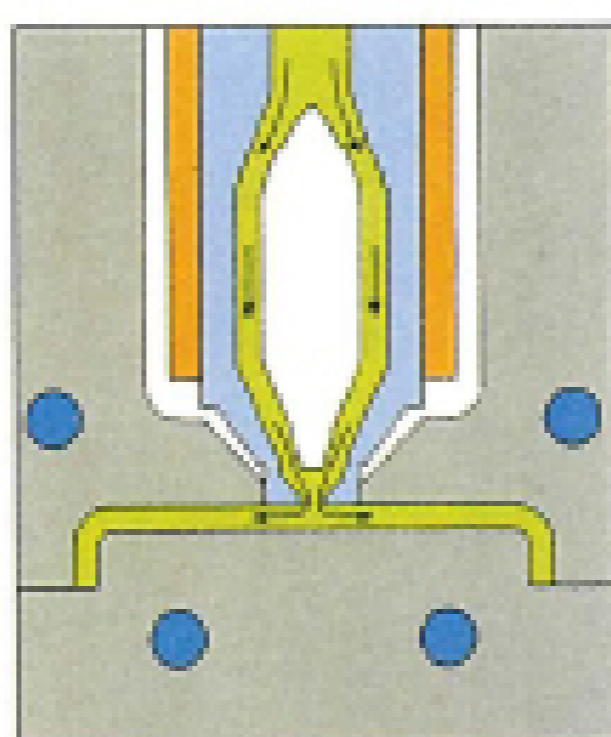


■噴嘴澆道內沒有塑膠的滯留問題。

噴嘴的流路採用流綫型形狀，可防止塑膠停留而影響注塑件的質量。另外，外圍式加熱器可防止噴嘴內半溶解塑膠的產生。

■No Resin Build-up points.

All flow channels in the Plagate nozzle are streamlined in design, insuring complete melting and usage of resin without overheating, scorching, or burning.



■使用壽命長。

針閥直徑和分流梭內徑的配合精度極高，不會產生塑膠逆流進彈簧室內的問題。另外，彈簧的材料是超耐熱合金，使用壽命長。

■Durable, long lasting nozzle.

The clearance between the piston and the front part of the torpedo is very fine, preventing leakage of molten resin. The spring is made of a super, heat-resistant, alloy steel and is very durable.

■噴嘴裝配簡單。

飞沙針閥式噴嘴在構造上達到了裝卸方便的要求。

■Easy assembly and disassembly

The Plagate Nozzle is versatile, and compatible with most injection systems.

根據塑膠的注塑件形狀，可選擇最合適的噴嘴。

Wide range of nozzles to choose from, including those used for plastics, and molded components.

■飞沙針閥式噴嘴具有高精度和高品質。

噴嘴是用先進的設備和超精密的加工技術來製造，材料是採用超耐熱和高強度合金材料，經過先進的熱處理技術來製造出高精度，高品質的產品。

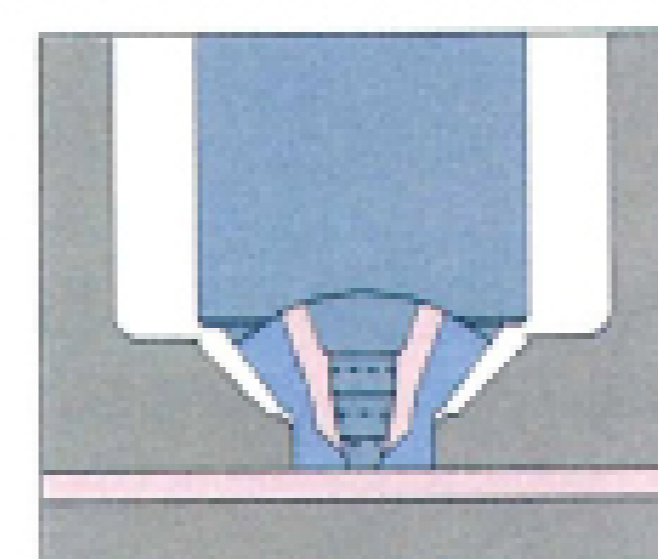
■Quality, Accuracy, and Reliability

The Plagate Nozzle is manufactured precisely and uniformly to the highest manufacturing standards, and is made of a rare, alloy steel, specially pre-treated to withstand extremes of heat and high tension.

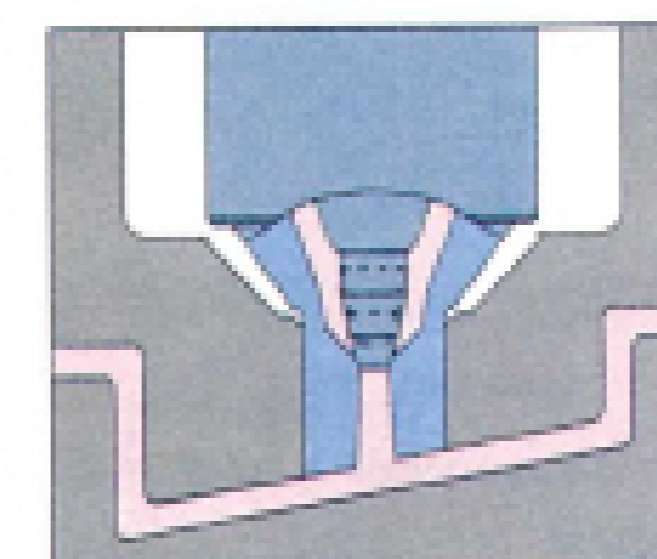


■噴嘴頭選擇的使用例。

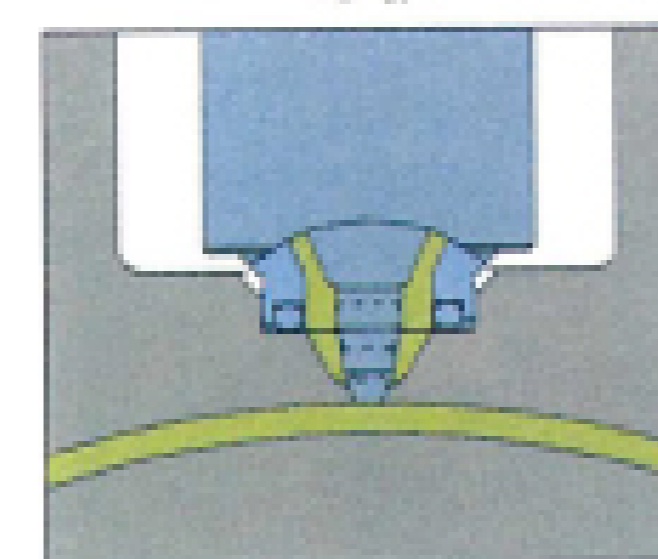
Diagram of gate positions and diameters



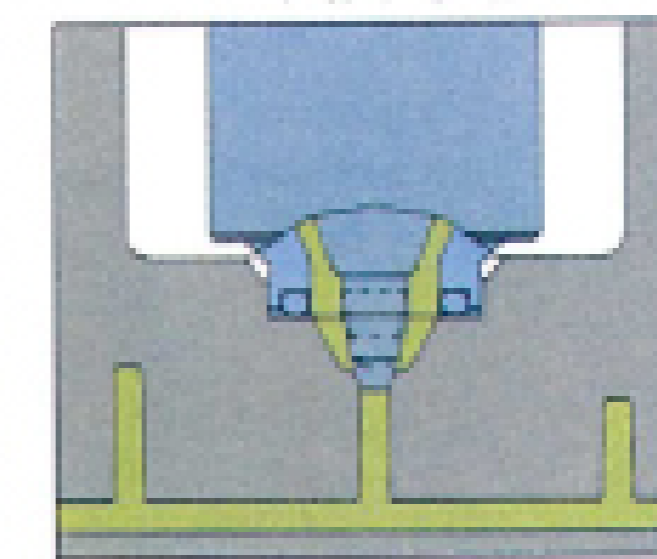
有頭式
Top type



有頭式(長帽型)
Top type(long cap)



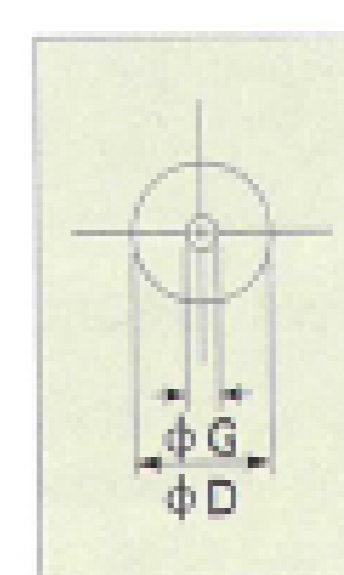
無頭式
Topless type



無頭式
Topless type

■噴嘴口徑和澆口部痕迹。

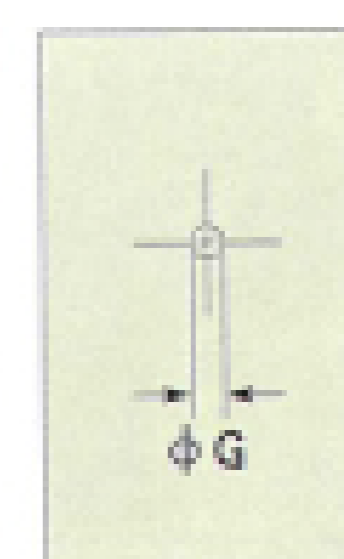
Gate Marks and Diameters



■有頭式噴嘴澆口部殘留ΦD和ΦG的二重圓形的痕迹。
有頭式噴嘴的頭徑ΦD和口徑ΦG。
ΦD=5.0, 7.0, 10.0, 12.0, 15.0, 20.0
ΦG=1.2, 1.8, 2.6, 3.0, 5.0

■Top Type of Gate Diameters

With the top-type nozzle, the cap ΦD, and ΦG leave a mark on the product, seen as a double-circle.



■無頭式噴嘴澆口部殘留ΦG的圓形的痕迹。
無頭式噴嘴的口徑ΦG。
ΦG=1.2, 1.8, 2.6, 3.0, 4.0, 5.0

■Topless Type of Gate Diameters

With the topless-type nozzle, the circle mark of the gate ΦG is left on the product.

■加長用連接套。

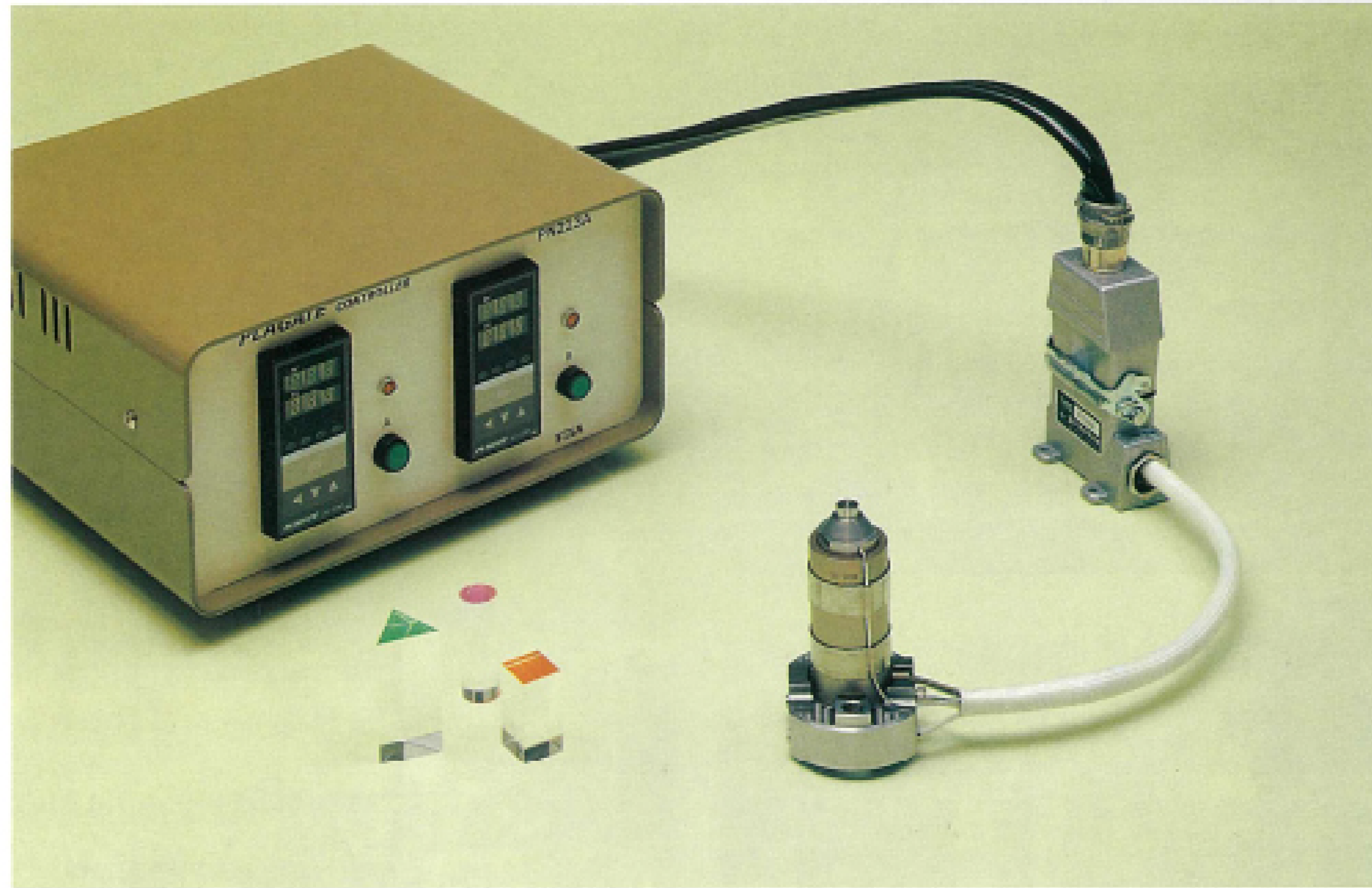
當需要長度超過標準規格的噴嘴時，可採用連接套來實現。連接套的長度可根據模具尺寸要求定制。

If a longer than standard nozzle is required, an adapter is recommended. Refer to molding die dimensions for choosing the proper adapter length.



使用專用的法蘭盤使噴嘴裝卸方便。

Through the use of the proper flange, the Plagate Nozzle can be easily mounted to the molding die.

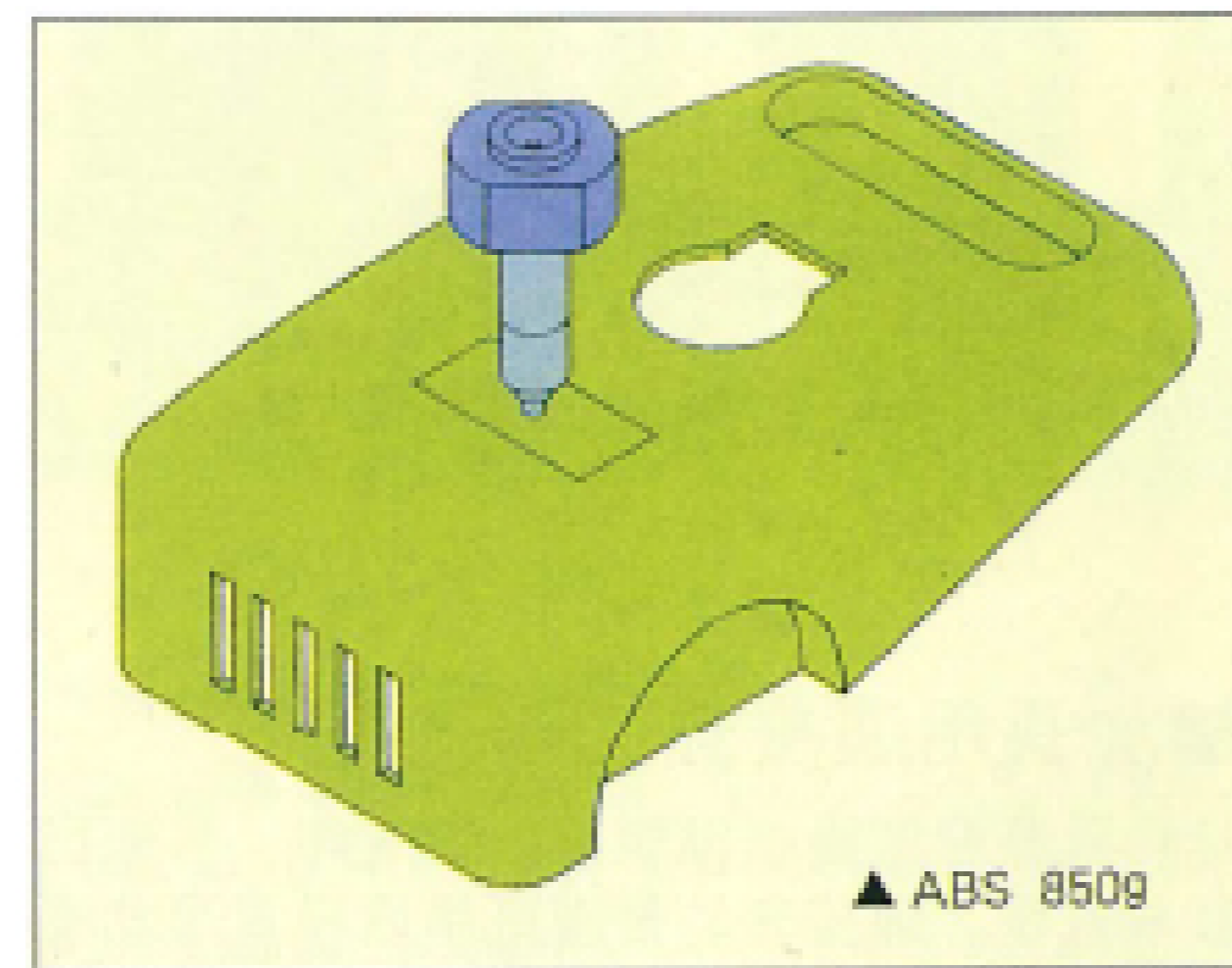
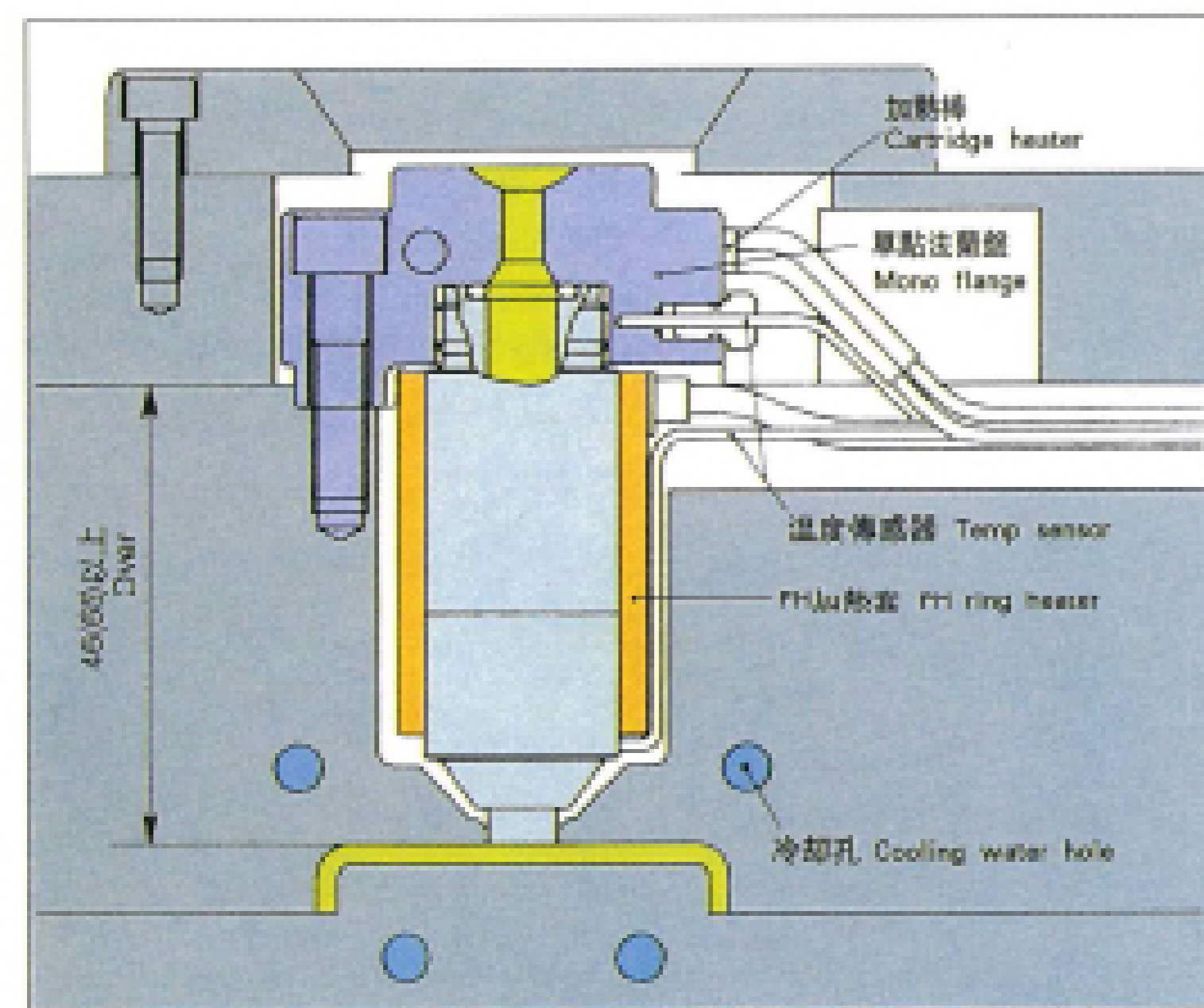


■單點澆口的模具。

單個噴嘴可用在從幾克的小型注塑件到幾公斤的大型注塑件的模具上。噴嘴上裝有專用的法蘭盤，裝卸方便。

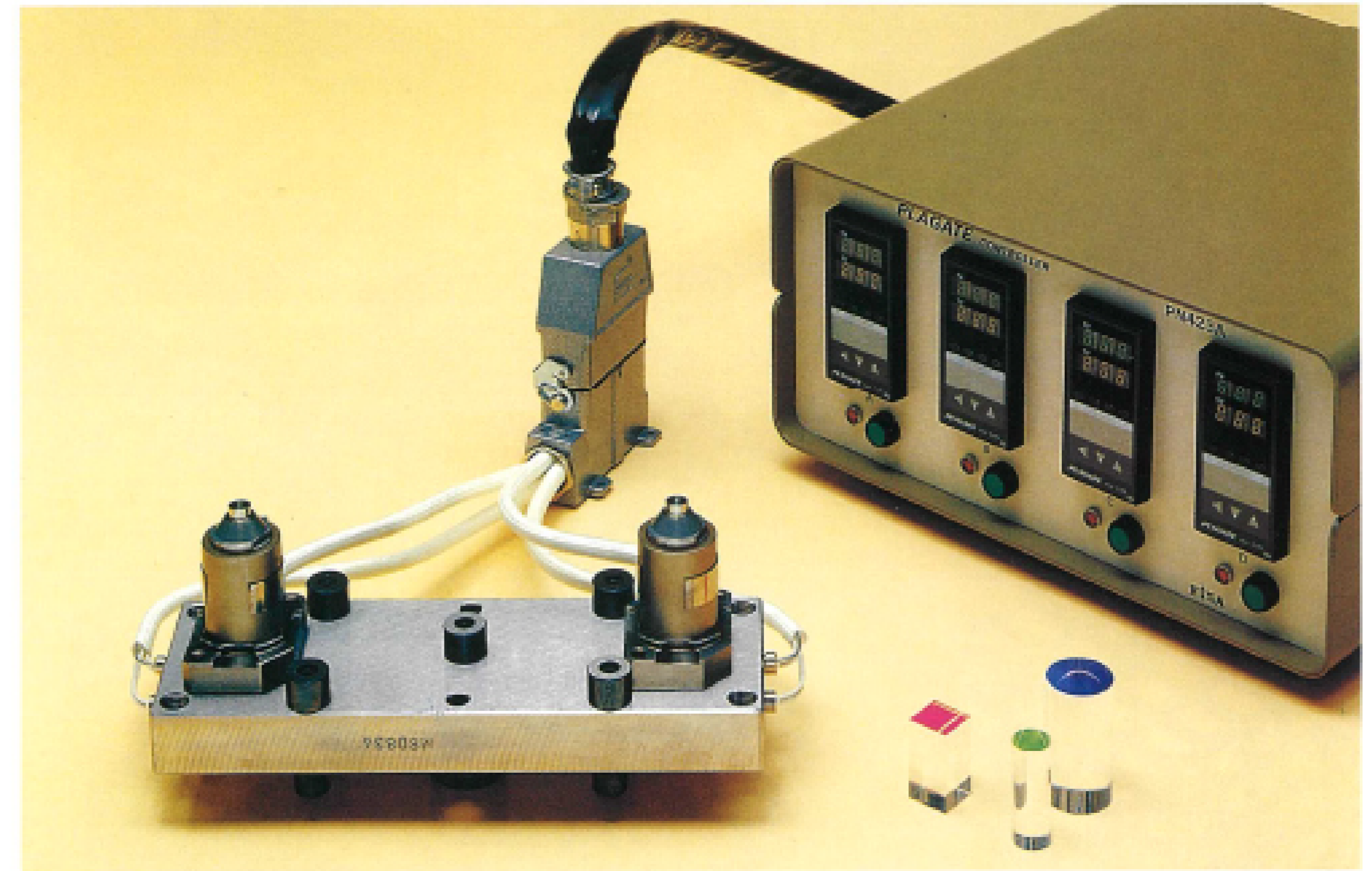
■Single gate and molding die.

Single gate and molding die can be used to manufacture parts ranging from small and precision, all the way up to parts weighing a few kilograms. The Plagate Nozzle is installed into the molding die by means of a mono-flange.



多點澆口的模具上使用裝卸方便，維修簡單。

Maintenance repairs, when needed, are quick and easy.

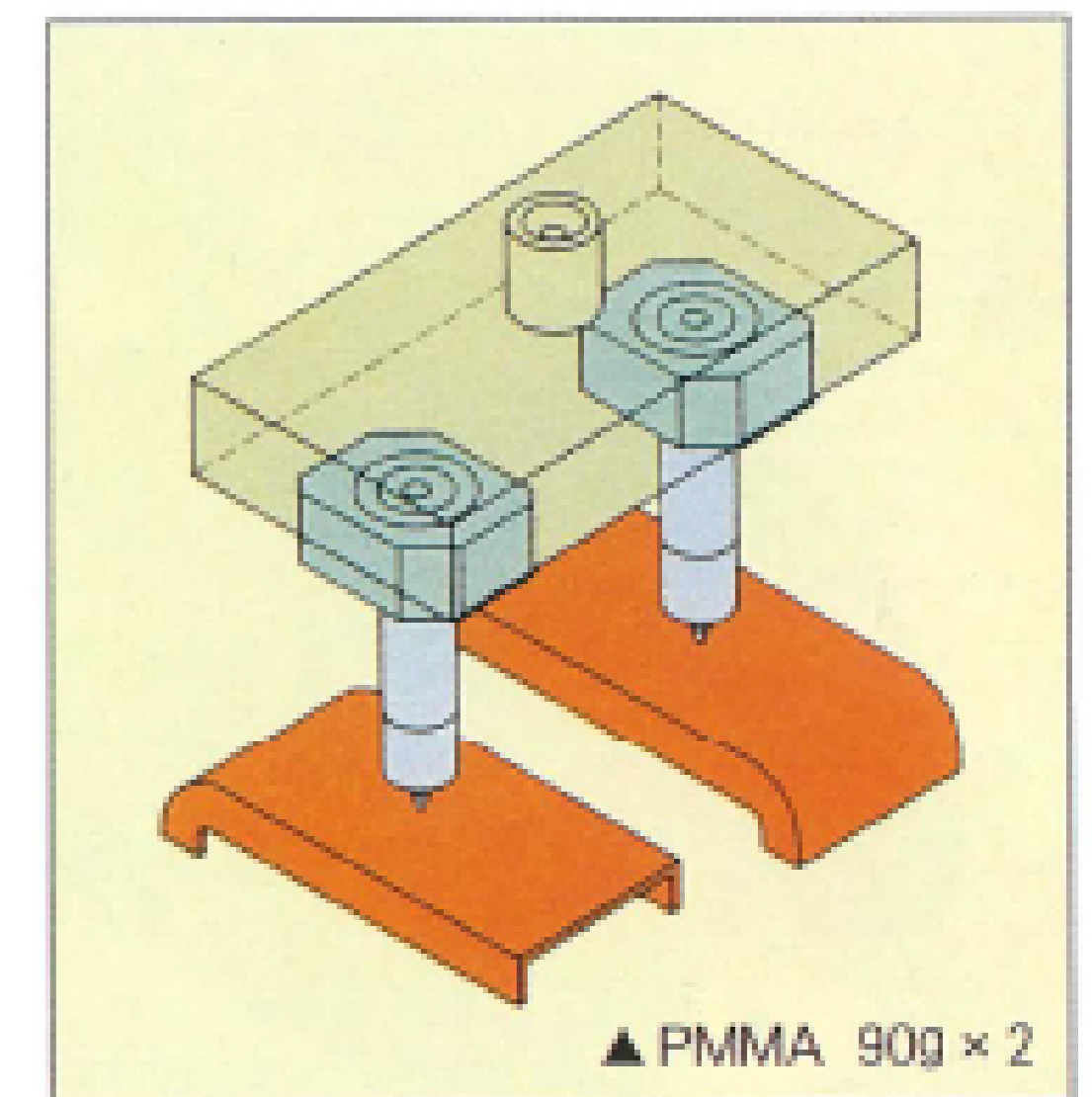
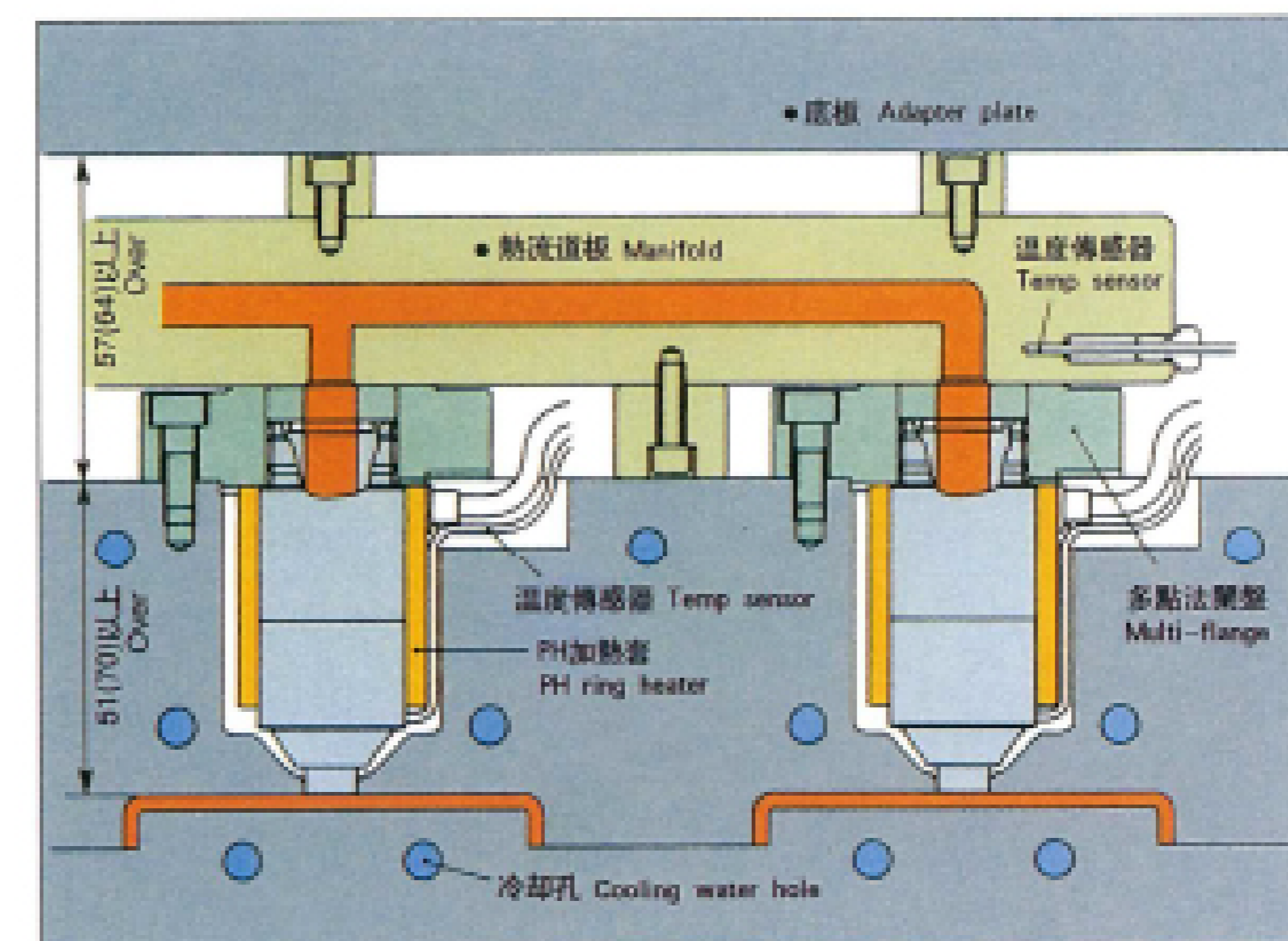


■多點澆口的模具。

在熱膨脹時，熱流道板和噴嘴之間會產生滑動，不會使膨脹力對噴嘴口產生不良的影響。熱流道板的尺寸是根據模具的尺寸來製造的。

■Multi-gate and Molding Die

Heat-expansion may cause the manifold to move, or slide independently of the nozzle, but will not interfere with nozzle operation. Manifolds can be custom made according to the dimensions of the molding die.



噴嘴附屬件

Nozzle parts

連接套 Adapter for Long Nozzle					
使用噴嘴型號 Type of Nozzle	型號 Model	導向套外徑 Guide dia	連接套外徑 Adapter -Outside dia	適用範圍Use (NH+噴嘴長度L+B) (NH standard nozzle+B)	形狀 Shape
NH2	AD24	42	28	130~370	
NH4	AD45	54	40	170~500	

PF單點法蘭盤 PF mono-flange			PF多點法蘭盤 PF multi-flange		
單點進口用 For single gate 	(NH2用) (For NH2)		多點進口用 For multi-cavity 	(NH2用) (For NH2)	
	型號 Model	噴嘴的R Nozzle radius		加熱棒 Cartridge heater	型號 Part no.
	PF2833 R10	10	型號 Part no. 60603 (300W/240V) 2根 2 pcs	PF2815(附PS256)	
	R11	11		PF2822M(一體物) (one set type)	
	R15	15		(附內六角螺絲 M6 × 25 × 2根) (Including 2pcs of cap-screw M6 × 25)	
	R16	16		(NH4用) (For NH4)	
	R20	20		型號 Part no.	
	R21	21		PF4019(附PS286)	
	R25	25	(附內六角螺絲 M6 × 25 × 2根) (Including 2pcs of cap-screw M6 × 25)		
	(NH4用) (For NH4)				
	型號 Model	噴嘴的R Nozzle radius	加熱棒 Cartridge heater		
	PF4037 R10	10	型號 Part no. 60703 (300W/240V) 2根 2 pcs		
	R11	11			
	R15	15			
	R16	16			
R20	20				
R21	21				
R25	25				

噴嘴附屬件

Nozzle parts

PS環 PS ring			PH加熱套 PH heater				
	型號 Part no.	材料Material		(NH2用) (For NH2)			
	PS157	不銹鋼 Stainless steel		型號 Part no.	長度 Length	電壓 Power	
	PS256(NH2)	不銹鋼 Stainless steel		PH28F-06	32	240V/350W	
PS286(NH4)	不銹鋼 Stainless steel	07	42				
		08	52				
無頭式環 Topless ring			(NH4用) (For NH4)				
	型號 Part no.	材料Material	PH40F-08	48	240V/350W		
	SU1618(NH2)	不銹鋼 Stainless steel	10	68	240V/380W		
	SU2022(NH4)	不銹鋼 Stainless steel	12	88	240V/480W		
	SU2325(NH4)	不銹鋼 Stainless steel	15	118	240V/500W		
SG彈簧 SG spring			T J溫度傳感器 T J temp sensor				
	型號 Part no.	材料Material	<p>測溫探針 Sheath 補償導線 Compensating lead wire</p> <p>J (IC)型 ※可以選快回補線格(CA)型號。 KJ type characteristics (請參閱說明書)</p>	型號 Part no.	測溫探針長度 Sheath length	補償導線長度 Compensating lead wire	區分 Area
	SG2818K(NH2)	一般用 Ordinary		TJ0203	200	300	J(IC)
	SG2819K(NH2)	強力 Strong		0307	300	700	
	SG4022K(NH4)	一般用 Ordinary		0510	500	1,000	
	SG4024K(NH4)	強力 Strong		0713	700	1,300	
		1010		1,000	1,000		
		1510	1,500	1,000			
溫度傳感器固定套 Sensor plug			溫度傳感器固定帶 Sensor band				
型號 Part no.			型號 Part no.				
SN05			SB28P(NH2)				
			SB40P(NH4)				
<p>五只裝 5 pcs in one bag</p>			<p>五只裝 5 pcs in one bag</p>				
溫度傳感器固定套 Sensor plug							
類型 Type	型號 Model	外形(W × H × D) Dimensions	類型 Type	型號 Model	外形(W × H × D) Dimensions		
H	PT10H	83 × 61 × 50	L	PT10L	108 × 75 × 32		
	16H	101 × 71 × 50		16L	124 × 75 × 32		
	32H	112 × 95 × 57		32L	130 × 78 × 58		
PT10H PT16H PT32H			PT10L PT16L PT32L				