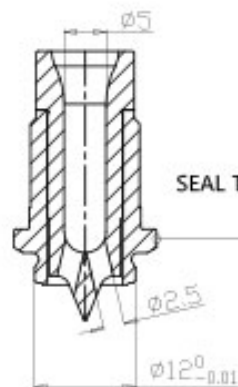
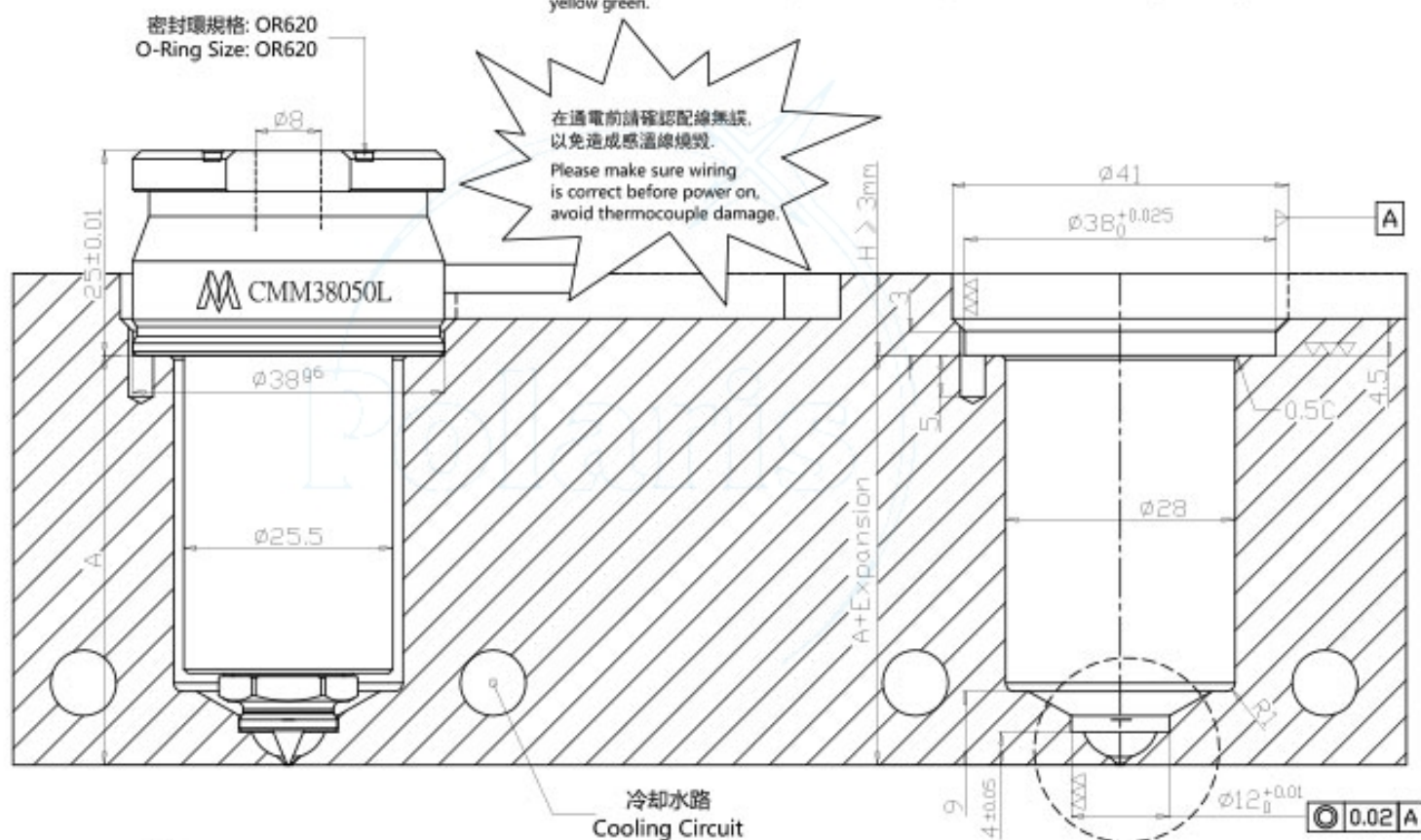




| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W |                                                                                                                                                                     |
|---------------------|-----------------------|----------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CMM38050L           | 50                    | CH-16033BY           | 330               | <p>本系列灌嘴長度亦可依模具設計提供客製品, 相關產品圖面需求請與本公司相關人員洽詢.</p> <p>For C series, we offer tailor-made nozzle length option, please contact us for drawing and further details.</p> |
| CMM38065L           | 65                    | CH-16040BY           | 400               |                                                                                                                                                                     |
| CMM38080L           | 80                    | CH-16040BY           | 400               |                                                                                                                                                                     |
| CMM38095L           | 95                    | CH-16047BY           | 470               |                                                                                                                                                                     |
| CMM38110L           | 110                   | CH-16047BY           | 470               |                                                                                                                                                                     |

請注意：本系統加熱器出線共有五條，其中兩條是電熱線，顏色各為橘色與灰色，另外兩條為歐規4型絕緣式感溫線，紅色代表正極，藍色代表負極，最後一條是接地線，顏色為黃綠色。

Note: Each C series nozzle heater contains 5 wireleads, 2 are for power, the wireleads colour are orange and gray, 2 are for J type insulated thermocouple, the red colour is positive and blue colour is negative, the ground lead colour is yellow green.



SEAL TORQUE:360kgf/cm  
(35N.m)

15

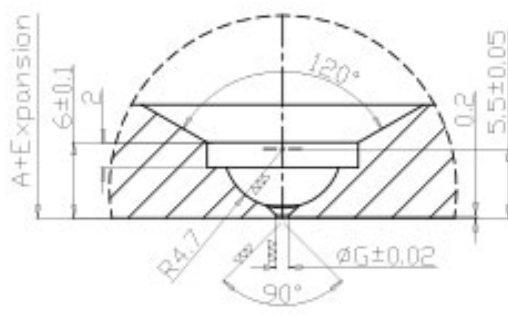
灌嘴熱膨脹量參考表  
Nozzle thermo expansion length table

|                       |          |                  |
|-----------------------|----------|------------------|
| Expansion coefficient | 1.32E-05 | Expansion length |
| Mold temp             | 20       |                  |
| Nozzle temp           | 250      |                  |
| 温差                    | 230      |                  |
| Nozzle length         | 50       | 0.16             |
|                       | 65       | 0.20             |
|                       | 80       | 0.25             |
|                       | 95       | 0.29             |
|                       | 110      | 0.33             |

$$\text{Expansion} = \text{Nozzle Length (A)} \times 0.0000132 \times (\text{Nozzle temp} - \text{Mold temp})$$

For Example,

Nozzle Length=50mm,  
Nozzle temp=250°C  
Mold temp=20°C  
Expansion=50x0.0000132x(250-20)  
=0.16mm



請注意/Note:

澆口G大小範圍從 $\phi 1.0 \sim 2.5\text{mm}$ ,尺寸依  
成型材質及成品厚薄來決定.

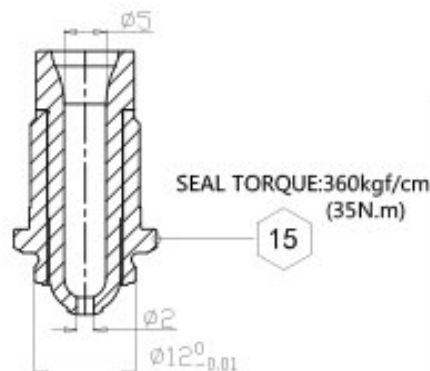
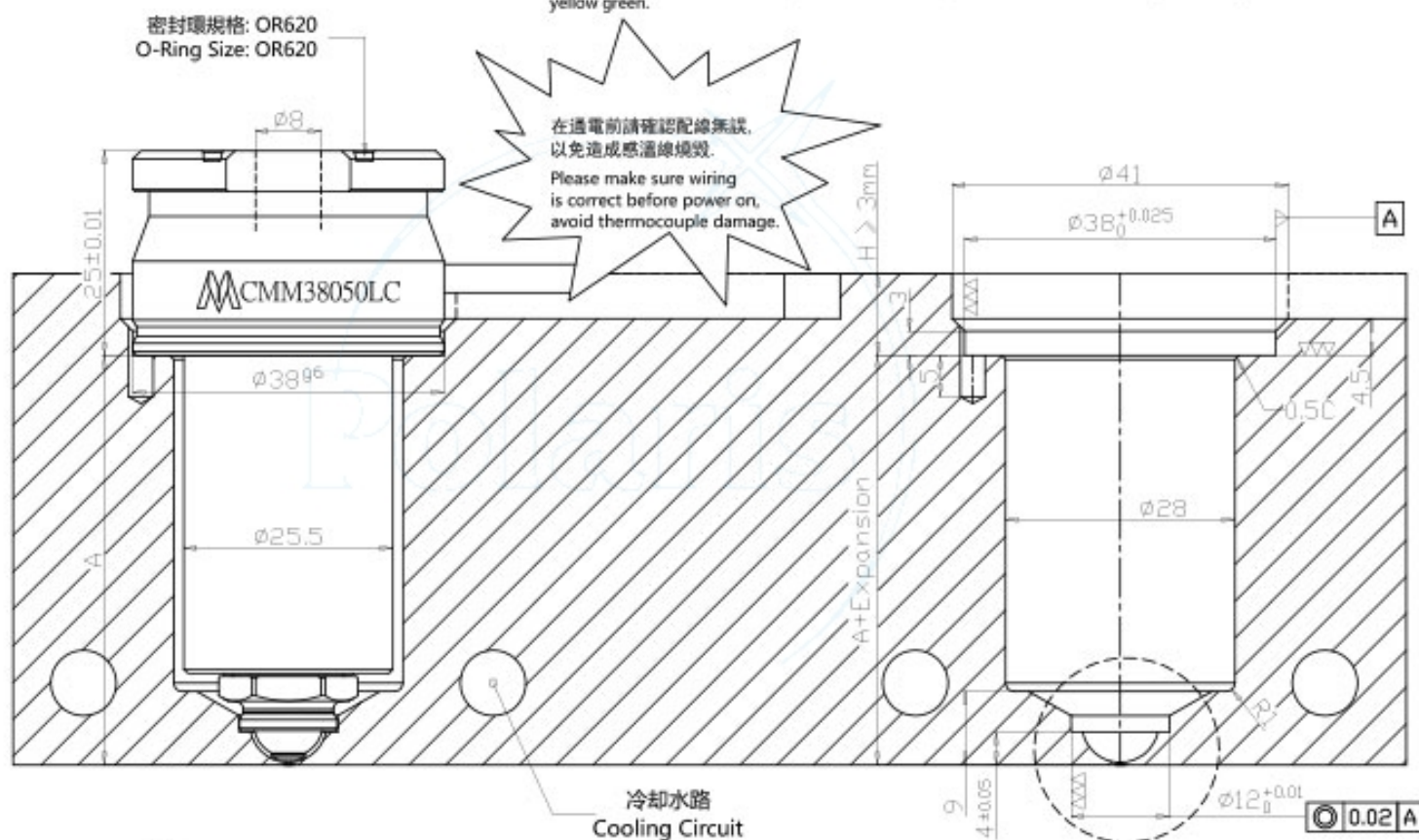
G dimension selection from  $\phi 1.0 \sim 2.5 \text{ mm}$ , the final size should be determined by application.



| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W |                                                                                                                                                                     |
|---------------------|-----------------------|----------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CMM38050LC          | 50                    | CH-16033BY           | 330               | <p>本系列灌嘴長度亦可依模具設計提供客製品, 相關產品圖面需求請與本公司相關人員洽詢.</p> <p>For C series, we offer tailor-made nozzle length option, please contact us for drawing and further details.</p> |
| CMM38065LC          | 65                    | CH-16040BY           | 400               |                                                                                                                                                                     |
| CMM38080LC          | 80                    | CH-16040BY           | 400               |                                                                                                                                                                     |
| CMM38095LC          | 95                    | CH-16047BY           | 470               |                                                                                                                                                                     |
| CMM38110LC          | 110                   | CH-16047BY           | 470               |                                                                                                                                                                     |

請注意：本系統加熱器出線共有五條，其中兩條是電熱線，顏色各為橘色與灰色，另外兩條為歐規4型絕緣式感溫線，紅色代表正極，藍色代表負極，最後一條是接地線，顏色為黃綠色。

Note: Each C series nozzle heater contains 5 wireleads, 2 are for power, the wireleads colour are orange and gray, 2 are for J type insulated thermocouple, the red colour is positive and blue colour is negative, the ground lead colour is yellow green.



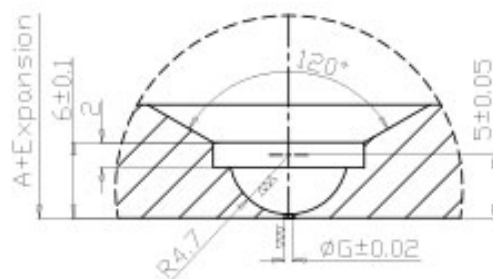
灌嘴熱膨脹量參考表  
Nozzle thermo expansion length table

|                       |          |                  |
|-----------------------|----------|------------------|
| Expansion coefficient | 1.32E-05 | Expansion length |
| Mold temp             | 20       |                  |
| Nozzle temp           | 250      |                  |
| 温差                    | 230      |                  |
| Nozzle length         | 50       | 0.16             |
|                       | 65       | 0.20             |
|                       | 80       | 0.25             |
|                       | 95       | 0.29             |
|                       | 110      | 0.33             |

$$\text{Expansion} = \text{Nozzle Length (A)} \times 0.0000132 \times (\text{Nozzle temp} - \text{Mold temp})$$

For Example,

Nozzle Length=50mm,  
Nozzle temp=250°C  
Mold temp=20°C  
Expansion=50x0.0000132x(250-20)  
=0.16mm



請注意/Note:

澆口G大小範圍從 $\phi 0.6 \sim 1.8\text{mm}$ ,尺寸依  
成型材質及成品厚薄來決定.

G dimension selection from  $\phi 0.6 \sim 1.8 \text{mm}$ , the final size should be determined by application.



## CMM38-Type S

| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W | <p>本系列灌嘴長度亦可依模具設計提供客製品。相關產品圖面需求請與本公司相關人員洽詢。</p> <p>For C series, we offer tailor-made nozzle length option, please contact us for drawing and further details.</p> |
|---------------------|-----------------------|----------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CMM38050S           | 50                    | CH-16033BY           | 330               |                                                                                                                                                                    |
| CMM38065S           | 65                    | CH-16040BY           | 400               |                                                                                                                                                                    |
| CMM38080S           | 80                    | CH-16040BY           | 400               |                                                                                                                                                                    |
| CMM38095S           | 95                    | CH-16047BY           | 470               |                                                                                                                                                                    |
| CMM38110S           | 110                   | CH-16047BY           | 470               |                                                                                                                                                                    |

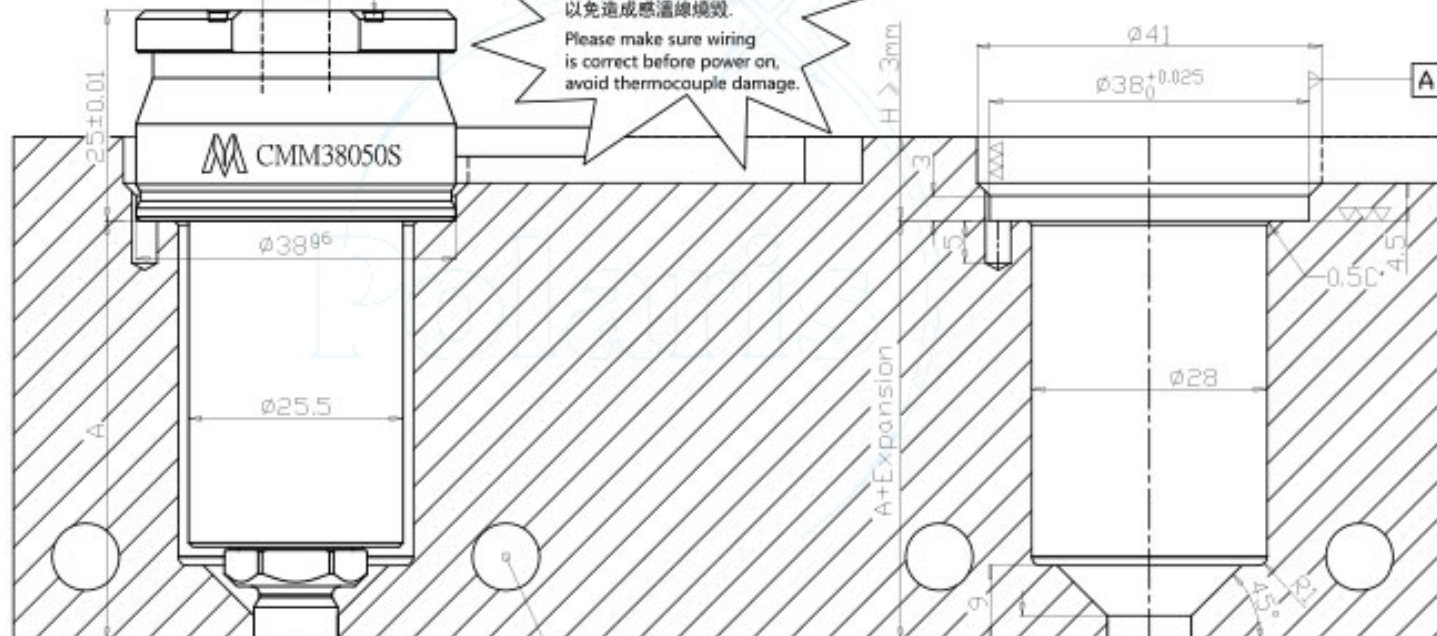
請注意：本系統加熱器出線共有五條，其中兩條是電熱線，顏色各為橘色與灰色，另外兩條為歐規J型絕緣式感溫線，紅色代表正極，藍色代表負極，最後一條是接地線，顏色為黃綠色。

Note: Each C series nozzle heater contains 5 wireleads, 2 are for power, the wireleads colour are orange and gray, 2 are for J type insulated thermocouple, the red colour is positive and blue colour is negative, the ground lead colour is yellow green.



密封環規格: OR620  
O-Ring Size: OR620

在通電前請確認配線無誤，  
以免造成感溫線燒毀。  
Please make sure wiring  
is correct before power on,  
avoid thermocouple damage.



SEAL TORQUE: 400kgf/cm  
(39N.m)

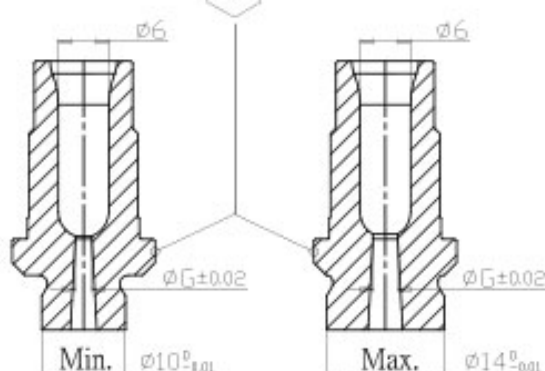
冷却水路  
Cooling Circuit

灌嘴熱膨脹量參考表

Nozzle thermo expansion length table

| Expansion coefficient | 1.32E-05 | Expansion length |
|-----------------------|----------|------------------|
| Mold temp             | 20       |                  |
| Nozzle temp           | 250      |                  |
| 溫差                    | 230      |                  |
| Nozzle length         | 50       | 0.16             |
|                       | 65       | 0.20             |
|                       | 80       | 0.25             |
|                       | 95       | 0.29             |
|                       | 110      | 0.33             |

| ØD尺寸/mm<br>ØD dia/mm | L尺寸/mm<br>L Length/mm |
|----------------------|-----------------------|
| Min. 10.0            | 3.0                   |
| Max. 14.0            | 5.0                   |



請注意/Note:  
滴口G大小範圍從Ø1.5~2.5mm,尺寸依  
成型材質及成品厚薄來決定。  
G dimension selection from  
Ø1.5~2.5mm, the final size should be  
determined by application.

Expansion = Nozzle Length(A) × 0.0000132 × (Nozzle temp - Mold temp)

For Example,

Nozzle Length = 50mm,  
Nozzle temp = 250°C  
Mold temp = 20°C  
Expansion = 50 × 0.0000132 × (250 - 20)  
= 0.16mm



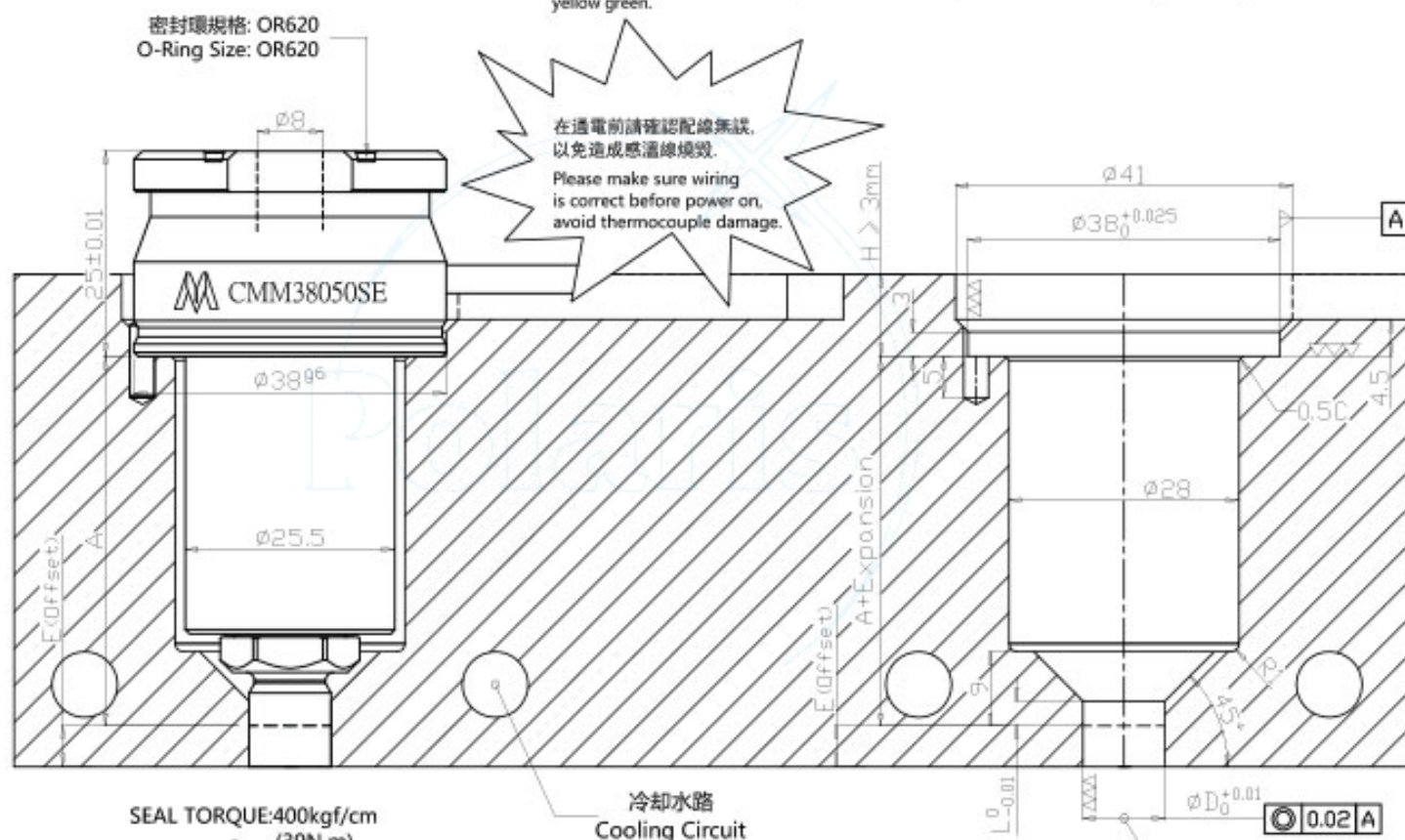
| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W |
|---------------------|-----------------------|----------------------|-------------------|
| CMM38050SE          | 50                    | CH-16033BY           | 330               |
| CMM38065SE          | 65                    | CH-16040BY           | 400               |
| CMM38080SE          | 80                    | CH-16040BY           | 400               |
| CMM38095SE          | 95                    | CH-16047BY           | 470               |
| CMM38110SE          | 110                   | CH-16047BY           | 470               |

本系列灌嘴長度亦可依模具設計提供客製品，相關產品圖面需求請與本公司相關人員洽詢。

For C series,we offer tailor-made nozzle length option,please contact us for drawing and further details.

請注意：本系統加熱器出線共有五條，其中兩條是電熱線，顏色各為橘色與灰色，另外兩條為歐規 J 型絕緣式感溫線，紅色代表正極，藍色代表負極，最後一條是接地線，顏色為黃綠色。

Note: Each C series nozzle heater contains 5 wireleads, 2 are for power, the wireleads colour are orange and gray, 2 are for J type insulated thermocouple, the red colour is positive and blue colour is negative, the ground lead colour is yellow green.



SEAL TORQUE:400kgf/cm  
(39N.m)

Cooling Circuit

灌嘴熱膨脹量參考表

Nozzle thermo expansion length table

|                       |          |                  |
|-----------------------|----------|------------------|
| Expansion coefficient | 1.32E-05 | Expansion length |
| Mold temp             | 20       |                  |
| Nozzle temp           | 250      |                  |
| 温差                    | 230      |                  |
| Nozzle length         | 50       | 0.16             |
|                       | 65       | 0.20             |
|                       | 80       | 0.25             |
|                       | 95       | 0.29             |
|                       | 110      | 0.33             |

|           |             |
|-----------|-------------|
| ØD尺寸/mm   | L尺寸/mm      |
| ØD dia/mm | L Length/mm |
| Min. 10.0 | 3.0         |
| Max. 14.0 | 5.0         |

請注意/Note：

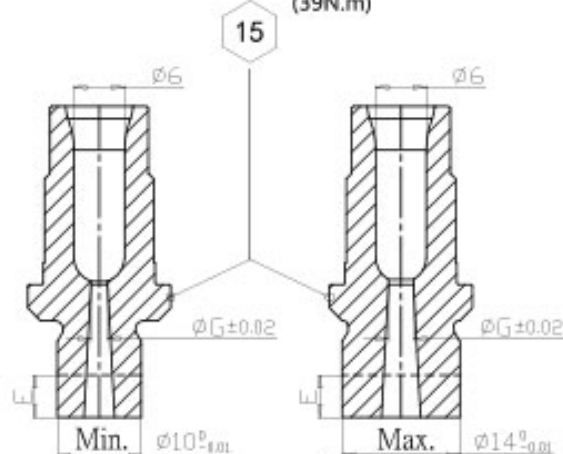
E尺寸可依據客戶模具需求訂制合適的長度尺寸。

Dimension E can be customized by customer demand.

$$\text{Expansion} = \text{Nozzle Length (A)} \times 0.0000132 \times (\text{Nozzle temp} - \text{Mold temp})$$

For Example,

Nozzle Length=50mm,  
Nozzle temp=250°C  
Mold temp=20°C  
Expansion=50x0.0000132x(250-20)  
=0.16m



請注意/Note:

澆口G大小範圍從 $\phi 1.5 \sim 2.5\text{mm}$ ,尺寸依成型材質及成品厚薄來決定。

G dimension selection from  $\phi 1.5 \sim 2.5 \text{mm}$ , the final size should be determined by application.

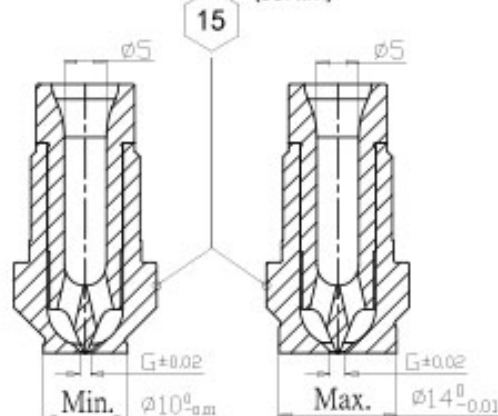
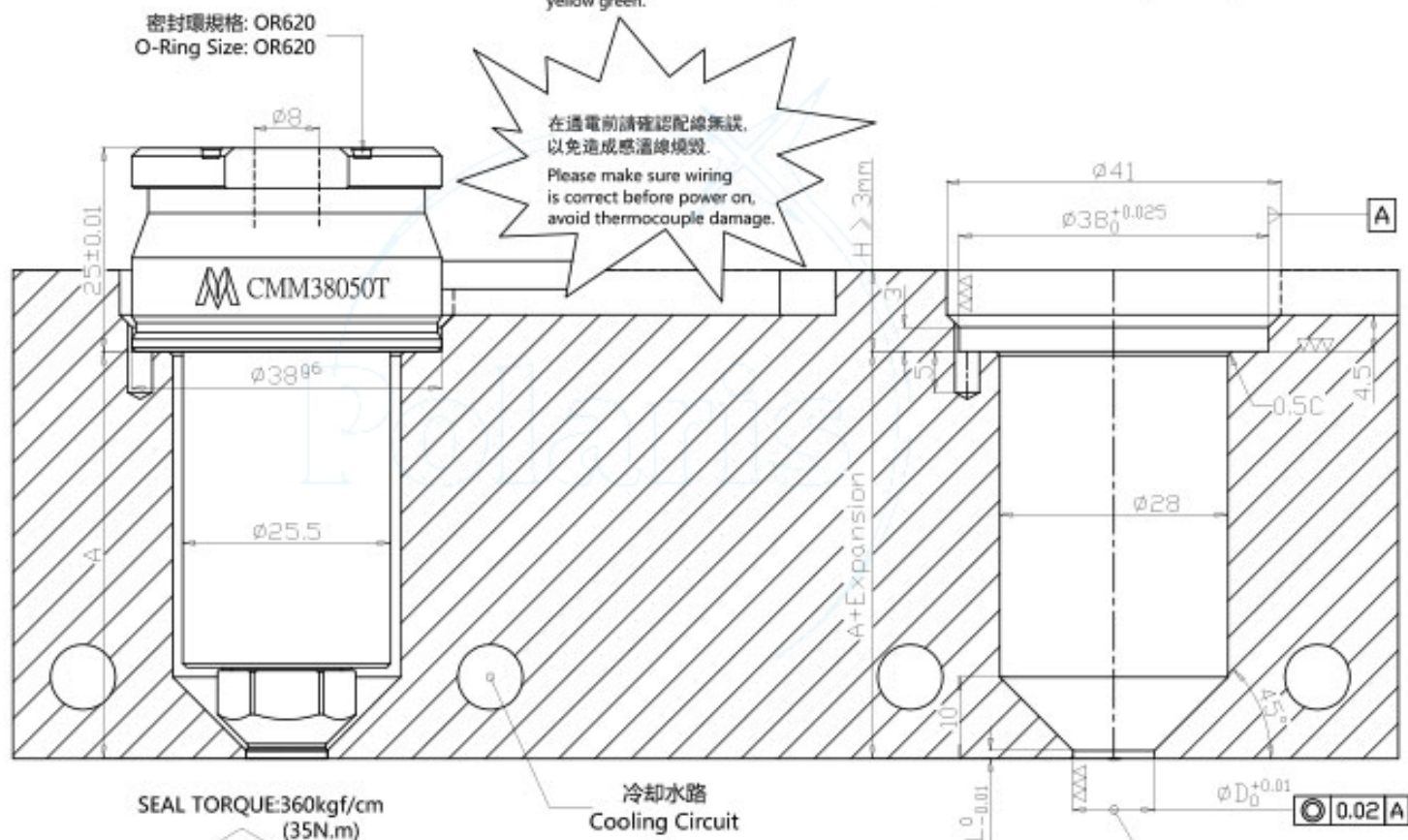




| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W |                                                                                                                                                                     |
|---------------------|-----------------------|----------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CMM38050T           | 50                    | CH-16033BY           | 330               | <p>本系列灌嘴長度亦可依模具設計提供客製品, 相關產品圖面需求請與本公司相關人員洽詢.</p> <p>For C series, we offer tailor-made nozzle length option, please contact us for drawing and further details.</p> |
| CMM38065T           | 65                    | CH-16040BY           | 400               |                                                                                                                                                                     |
| CMM38080T           | 80                    | CH-16040BY           | 400               |                                                                                                                                                                     |
| CMM38095T           | 95                    | CH-16047BY           | 470               |                                                                                                                                                                     |
| CMM38110T           | 110                   | CH-16047BY           | 470               |                                                                                                                                                                     |

請注意：本系統加熱器出線共有五條，其中兩條是電熱線，顏色各為橘色與灰色，另外兩條為歐規4型絕緣式感溫線，紅色代表正極，藍色代表負極，最後一條是接地線，顏色為黃綠色。

Note: Each C series nozzle heater contains 5 wireleads, 2 are for power, the wireleads colour are orange and gray, 2 are for J type insulated thermocouple, the red colour is positive and blue colour is negative, the ground lead colour is yellow green.



請注意/Note:  
 澆口G大小範圍從 $\phi 1.0 \sim 2.5\text{mm}$ ,尺寸依  
 成型材質及成品厚薄來決定。  
 G dimension selection from  
 $\phi 1.0 \sim 2.5\text{mm}$ , the final size should be  
 determined by application.

灌嘴熱膨脹量參考表  
Nozzle thermo expansion length table

|                       |          |                  |
|-----------------------|----------|------------------|
| Expansion coefficient | 1.32E-05 | Expansion length |
| Mold temp             | 20       |                  |
| Nozzle temp           | 250      |                  |
| 温差                    | 230      |                  |
| Nozzle length         | 50       | 0.16             |
|                       | 65       | 0.20             |
|                       | 80       | 0.25             |
|                       | 95       | 0.29             |
|                       | 110      | 0.33             |

|           |             |
|-----------|-------------|
| ØD尺寸/mm   | L尺寸/mm      |
| ØD dia/mm | L Length/mm |
| Min. 10.0 | 1.0         |
| Max. 14.0 | 3.0         |

$$\text{Expansion} = \text{Nozzle Length (A)} \times 0.0000132 \times (\text{Nozzle temp} - \text{Mold temp})$$

For Example,

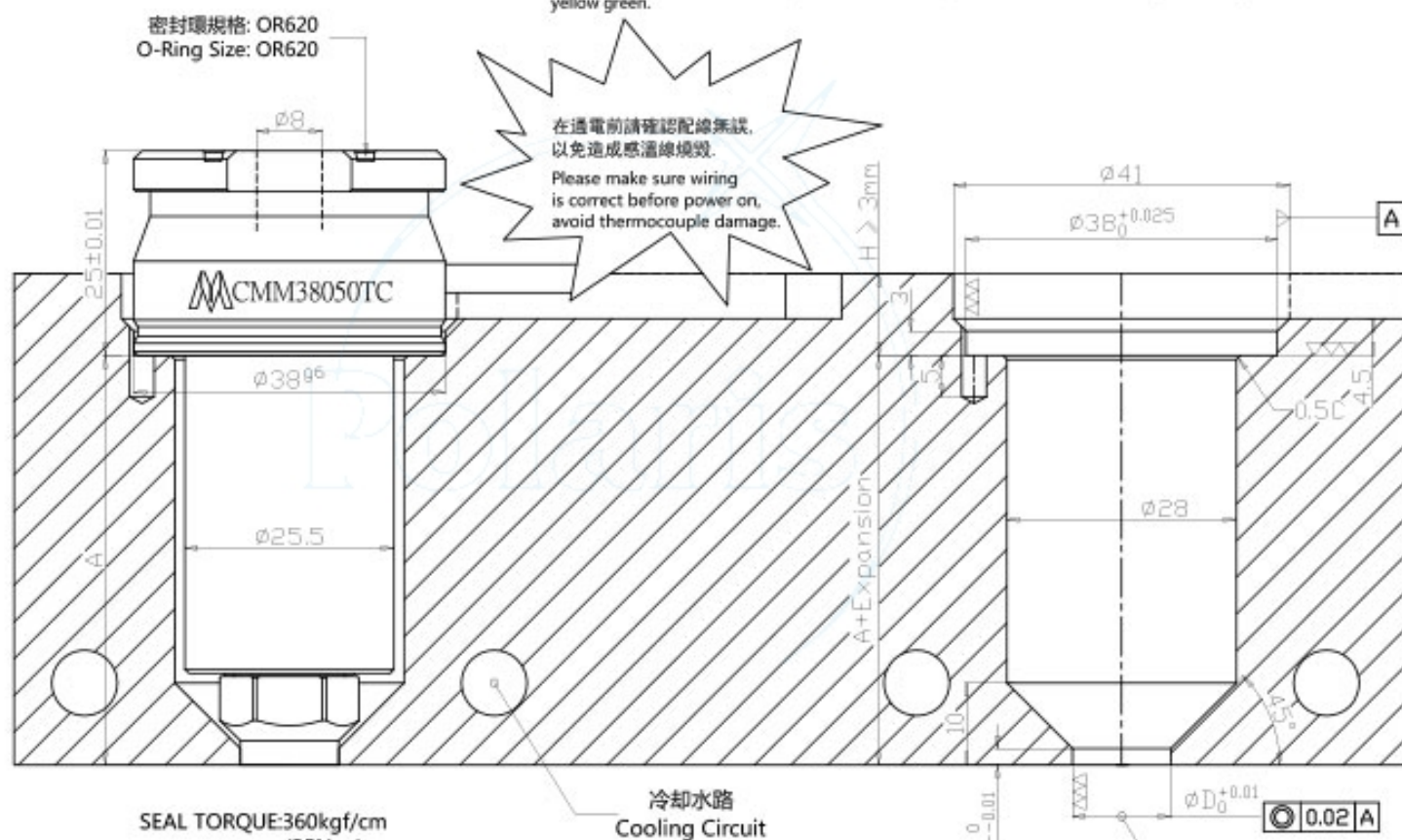
Nozzle Length = 50mm,  
Nozzle temp = 250°C  
Mold temp = 20°C  
Expansion =  $50 \times 0.0000132 \times (250 - 20)$   
= 0.16mm



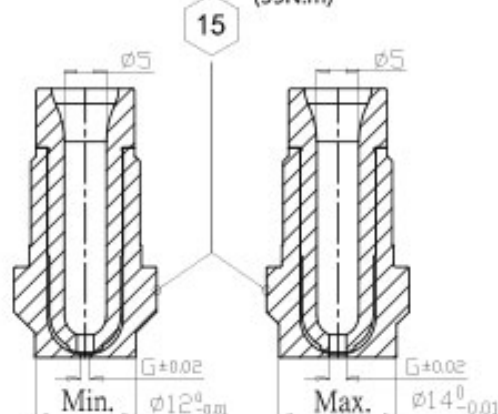
| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W | <p>本系列灌嘴長度亦可依模具設計提供客製品, 相關產品圖面需求請與本公司相關人員洽詢.</p> <p>For C series, we offer tailor-made nozzle length option, please contact us for drawing and further details.</p> |
|---------------------|-----------------------|----------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CMM38050TC          | 50                    | CH-16033BY           | 330               |                                                                                                                                                                     |
| CMM38065TC          | 65                    | CH-16040BY           | 400               |                                                                                                                                                                     |
| CMM38080TC          | 80                    | CH-16040BY           | 400               |                                                                                                                                                                     |
| CMM38095TC          | 95                    | CH-16047BY           | 470               |                                                                                                                                                                     |
| CMM38110TC          | 110                   | CH-16047BY           | 470               |                                                                                                                                                                     |

請注意：本系統加熱器出線共有五條，其中兩條是電熱線，顏色各為橘色與灰色，另外兩條為歐規J型絕緣式感溫線，紅色代表正極，藍色代表負極，最後一條是接地線，顏色為黃綠色。

Note: Each C series nozzle heater contains 5 wireleads, 2 are for power, the wireleads colour are orange and gray, 2 are for J type insulated thermocouple, the red colour is positive and blue colour is negative, the ground lead colour is yellow green.



SEAL TORQUE:360kgf/cm  
(35N.m)



灌嘴熱膨脹量參考表  
Nozzle thermo expansion length table

|                       |          |                  |
|-----------------------|----------|------------------|
| Expansion coefficient | 1.32E-05 | Expansion length |
| Mold temp             | 20       |                  |
| Nozzle temp           | 250      |                  |
| 温差                    | 230      |                  |
| Nozzle length         | 50       | 0.16             |
|                       | 65       | 0.20             |
|                       | 80       | 0.25             |
|                       | 95       | 0.29             |
|                       | 110      | 0.33             |

|                      |                       |
|----------------------|-----------------------|
| ØD尺寸/mm<br>ØD dia/mm | L尺寸/mm<br>L Length/mm |
| Min. 12.0            | 2.0                   |
| Max. 14.0            | 3.0                   |

$$\text{Expansion} = \text{Nozzle Length (A)} \times 0.0000132 \times (\text{Nozzle temp} - \text{Mold temp})$$

請注意/Note:  
澆口G大小範圍從 $\phi 1.0 \sim 1.8\text{mm}$ ,尺寸依  
成型材質及成品厚薄來決定.

G dimension selection from  $\phi 1.0 \sim 1.8 \text{mm}$ , the final size should be determined by application.

For Example,

Nozzle Length=50mm,  
Nozzle temp=250°C  
Mold temp=20°C  
Expansion=50x0.0000132x(250-20)  
=0.16mm



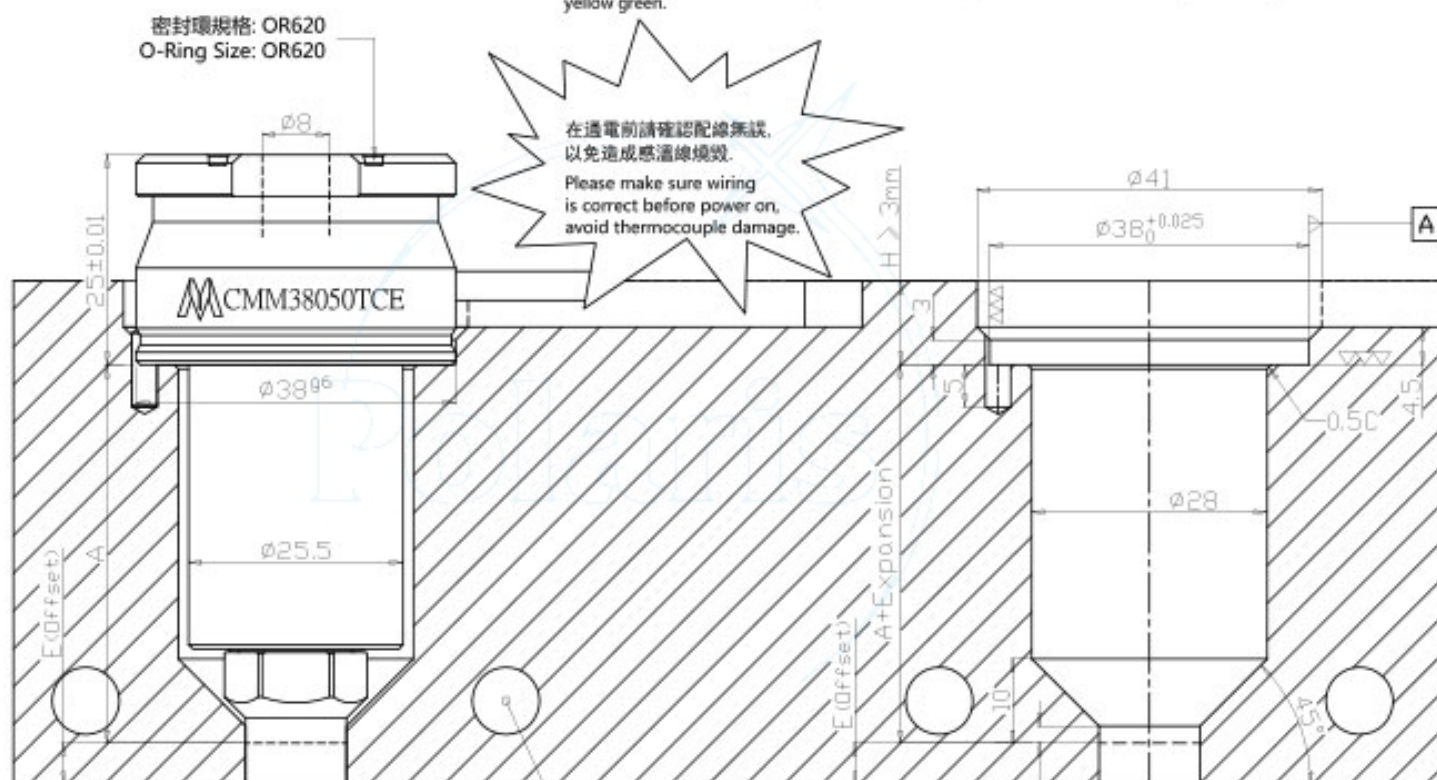
## CMM38-Type TCE



| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W |                                                                                                                                                                     |
|---------------------|-----------------------|----------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CMM38050TCE         | 50                    | CH-16033BY           | 330               | <p>本系列灌嘴長度亦可依模具設計提供客製品, 相關產品圖面需求請與本公司相關人員洽詢。</p> <p>For C series, we offer tailor-made nozzle length option, please contact us for drawing and further details.</p> |
| CMM38065TCE         | 65                    | CH-16040BY           | 400               |                                                                                                                                                                     |
| CMM38080TCE         | 80                    | CH-16040BY           | 400               |                                                                                                                                                                     |
| CMM38095TCE         | 95                    | CH-16047BY           | 470               |                                                                                                                                                                     |
| CMM38110TCE         | 110                   | CH-16047BY           | 470               |                                                                                                                                                                     |

請注意: 本系統加熱器出線共有五條, 其中兩條是電熱線, 顏色各為橘色與灰色, 另外兩條為歐規J型絕緣式感溫線, 紅色代表正極, 藍色代表負極, 最後一條是接地線, 顏色為黃綠色。

Note: Each C series nozzle heater contains 5 wireleads, 2 are for power, the wireleads colour are orange and gray, 2 are for J type insulated thermocouple, the red colour is positive and blue colour is negative, the ground lead colour is yellow green.



SEAL TORQUE: 360kgf/cm (35N.m)

冷却水路  
Cooling Circuit

灌嘴熱膨脹參考表

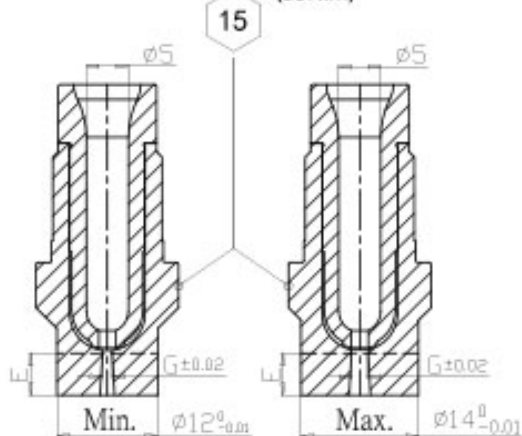
Nozzle thermo expansion length table

| Expansion coefficient | 1.32E-05 | Expansion length |
|-----------------------|----------|------------------|
| Mold temp             | 20       |                  |
| Nozzle temp           | 250      |                  |
| 溫差                    | 230      |                  |
| Nozzle length         | 50       | 0.16             |
|                       | 65       | 0.20             |
|                       | 80       | 0.25             |
|                       | 95       | 0.29             |
|                       | 110      | 0.33             |

| ØD尺寸/mm<br>ØD dia/mm | L尺寸/mm<br>L Length/mm |
|----------------------|-----------------------|
| Min. 12.0            | 2.0                   |
| Max. 14.0            | 3.0                   |

請注意/Note:  
E尺寸可依據客戶模具需求訂制合適的長度尺寸。

Dimension E can be customized by customer demand.



請注意/Note:  
滴口G大小範圍從Ø1.5~1.8mm, 尺寸依成型材質及成品厚薄來決定。  
G dimension selection from Ø1.5~1.8mm, the final size should be determined by application.

Expansion = Nozzle Length(A) x 0.0000132 x (Nozzle temp - Mold temp)

For Example,

Nozzle Length = 50mm,  
Nozzle temp = 250°C  
Mold temp = 20°C  
Expansion = 50 x 0.0000132 x (250 - 20)  
= 0.16mm



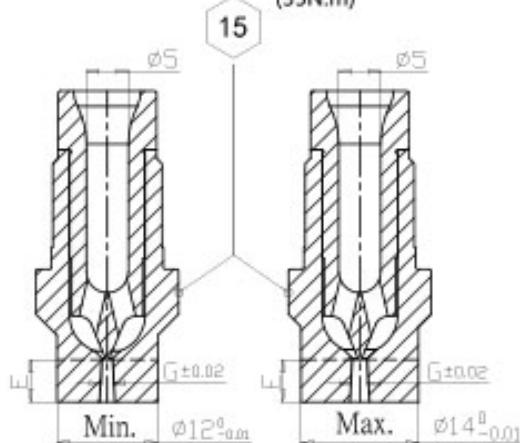
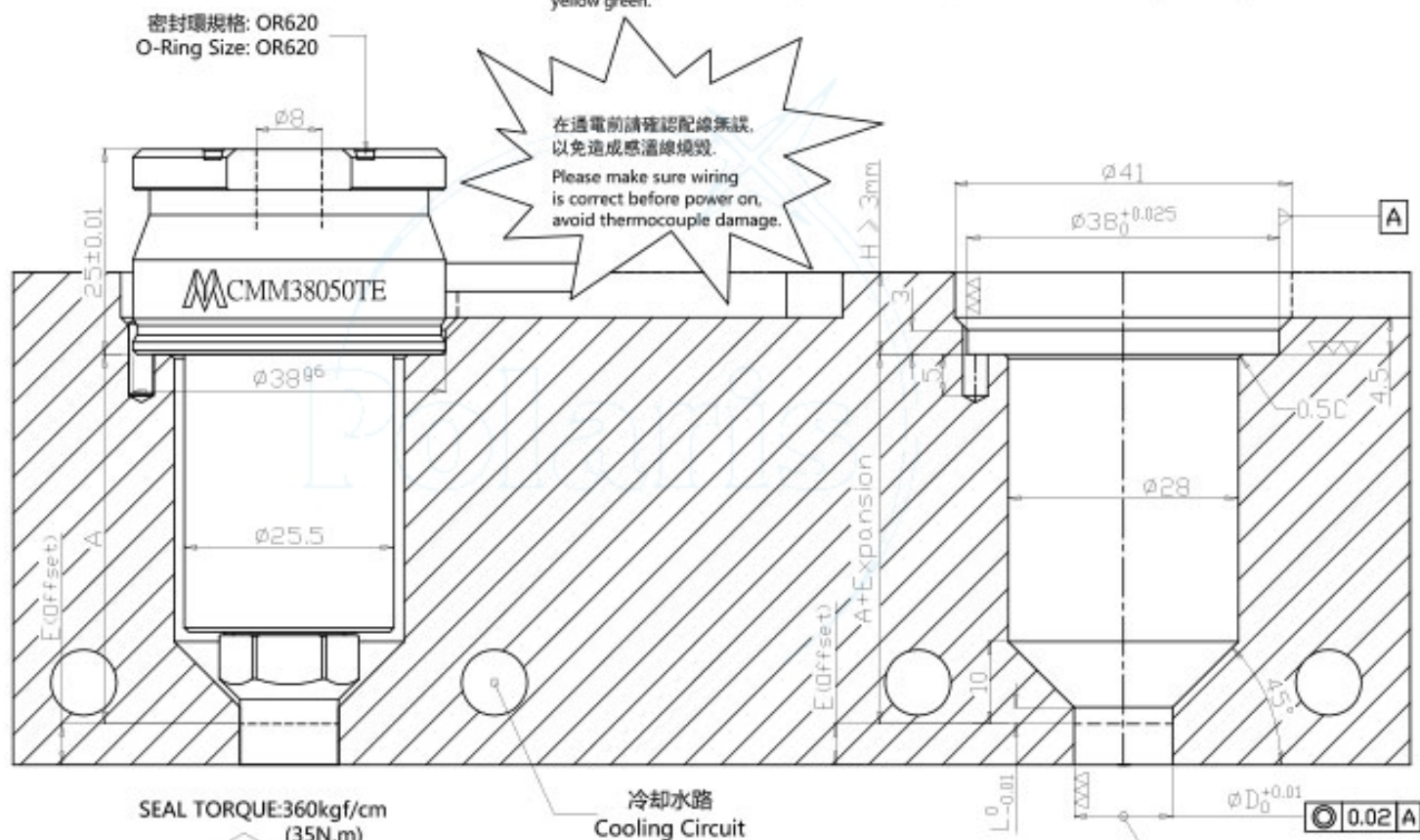
| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W |
|---------------------|-----------------------|----------------------|-------------------|
| CMM38050TE          | 50                    | CH-16033BY           | 330               |
| CMM38065TE          | 65                    | CH-16040BY           | 400               |
| CMM38080TE          | 80                    | CH-16040BY           | 400               |
| CMM38095TE          | 95                    | CH-16047BY           | 470               |
| CMM38110TE          | 110                   | CH-16047BY           | 470               |

本系列灌嘴長度亦可依模具設計提供客製品，相關產品圖面需求請與本公司相關人員洽詢。

For C series,we offer tailor-made nozzle length option,please contact us for drawing and further details.

請注意：本系統加熱器出線共有五條，其中兩條是電熱線，顏色各為橘色與灰色，另外兩條為歐規J型絕緣式感溫線，紅色代表正極，藍色代表負極，最後一條是接地線，顏色為黃綠色。

Note: Each C series nozzle heater contains 5 wireleads, 2 are for power, the wireleads colour are orange and gray, 2 are for J type insulated thermocouple, the red colour is positive and blue colour is negative, the ground lead colour is yellow green.



灌嘴熱膨脹量參考表  
Nozzle thermo expansion length table

|                       |          |                  |
|-----------------------|----------|------------------|
| Expansion coefficient | 1.32E-05 | Expansion length |
| Mold temp             | 20       |                  |
| Nozzle temp           | 250      |                  |
| 温差                    | 230      |                  |
| Nozzle length         | 50       | 0.16             |
|                       | 65       | 0.20             |
|                       | 80       | 0.25             |
|                       | 95       | 0.29             |
|                       | 110      | 0.33             |

|           |             |
|-----------|-------------|
| ØD尺寸/mm   | L尺寸/mm      |
| ØD dia/mm | L Length/mm |
| Min. 12.0 | 2.0         |
| Max. 14.0 | 3.0         |

請注意/Note：

E尺寸可依據客戶模具需求訂制合適的長度尺寸。

Dimension E can be customized by customer demand.

請注意/Note:

澆口G大小範圍從 $\phi 1.5 \sim 2.7\text{mm}$ ,尺寸依成型材質及成品厚薄來決定。

G dimension selection from  $\phi 1.5 \sim 2.7 \text{ mm}$ , the final size should be determined by application.

For Example,

Nozzle Length=50mm,  
Nozzle temp=250°C  
Mold temp=20°C  
Expansion=50x0.0000132x(250-20)  
=0.16mm