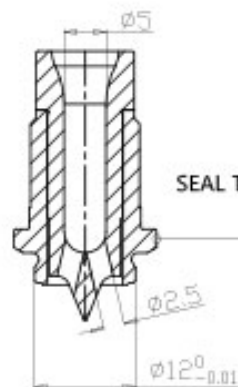
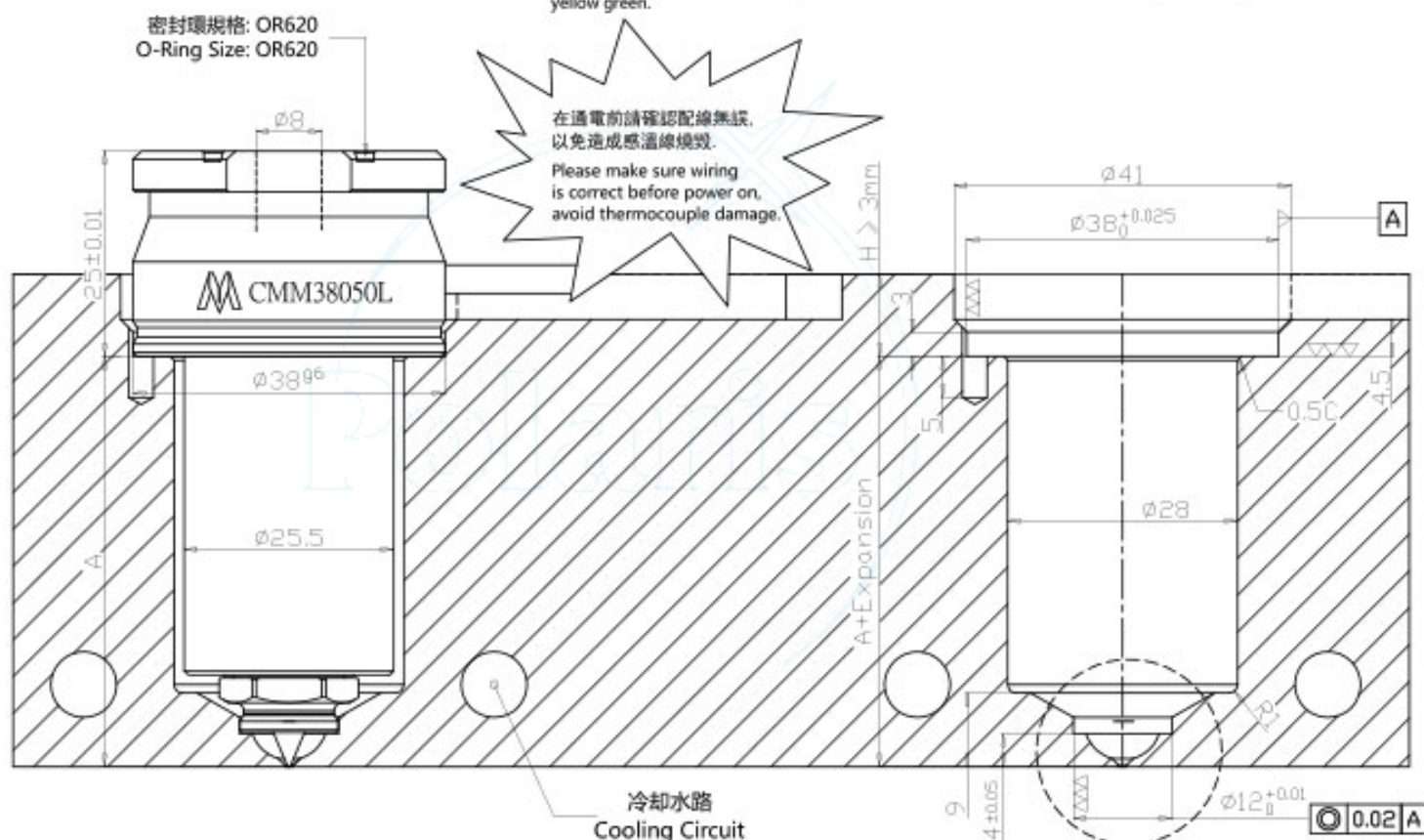




| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W | <p>本系列灌嘴長度亦可依模具設計提供客製品，相關產品圖面需求請與本公司相關人員洽詢。</p> <p>For C series, we offer tailor-made nozzle length option, please contact us for drawing and further details.</p> |
|---------------------|-----------------------|----------------------|-------------------|------------------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

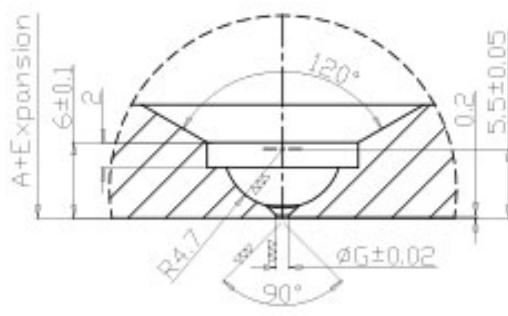
灌嘴熱膨脹量參考表  
Nozzle thermo expansion length table

|                       |          |                  |
|-----------------------|----------|------------------|
| 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.

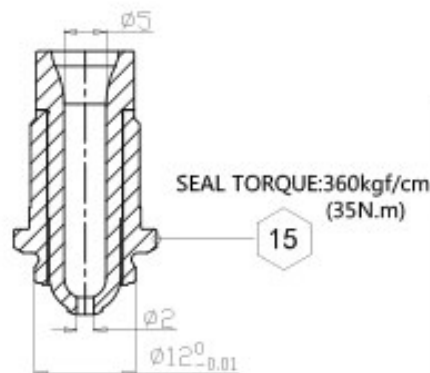
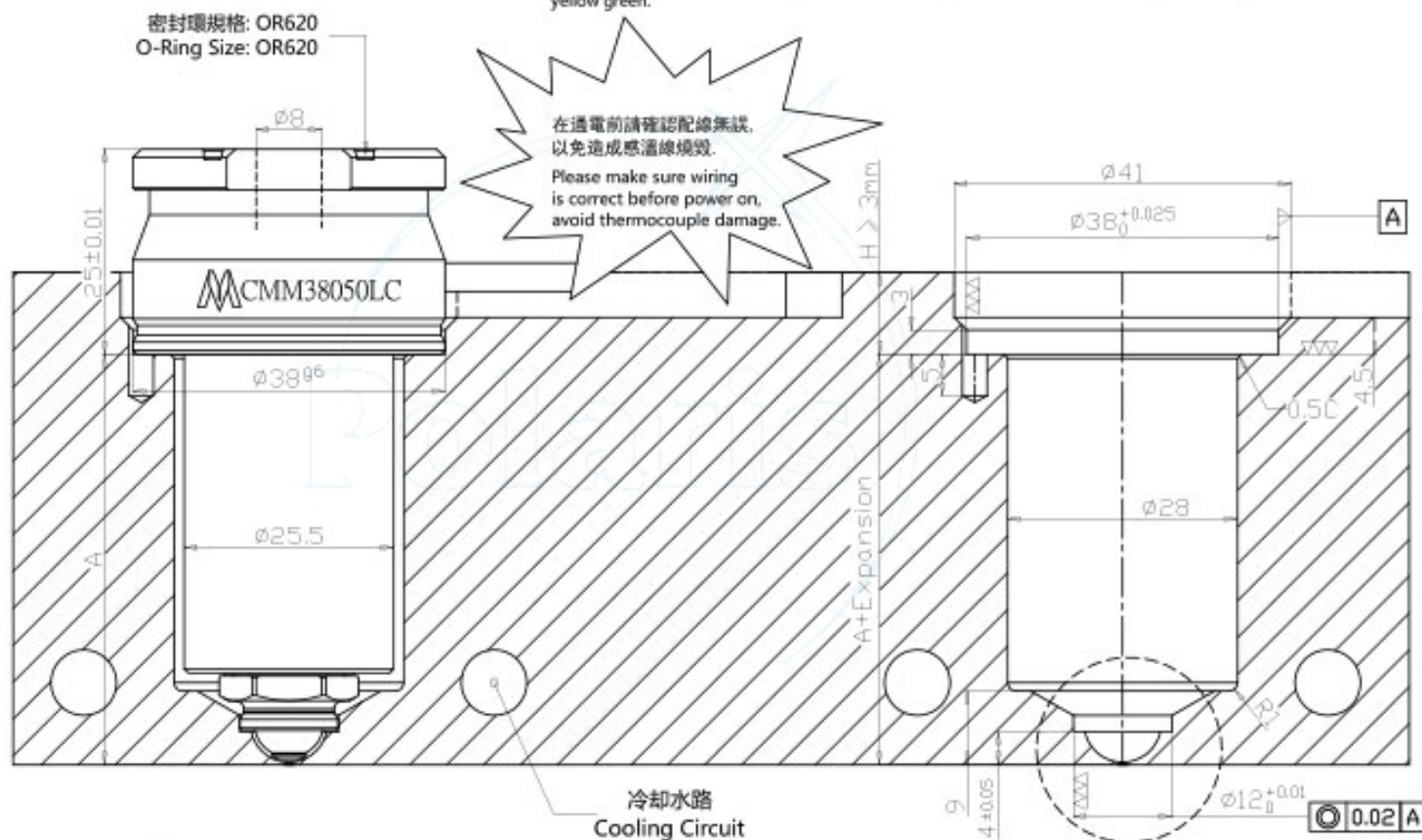
G dimension selection from  $\phi 1.0 \sim 2.5\text{mm}$ , the final size should be determined by application.



| 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.



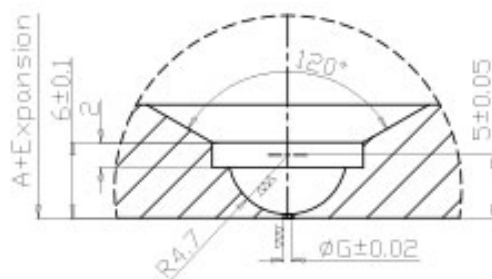
灌嘴熱膨脹量參考表  
Nozzle thermo expansion length table

|                       |          |                  |
|-----------------------|----------|------------------|
| 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.

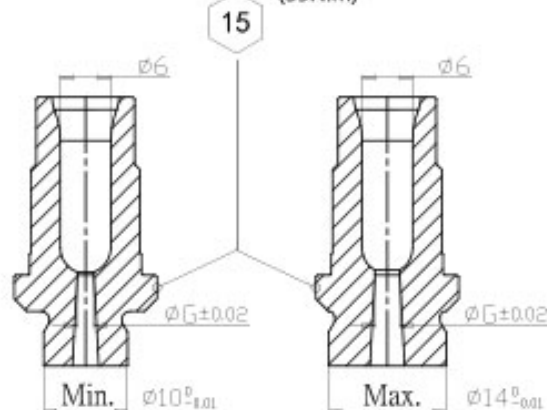
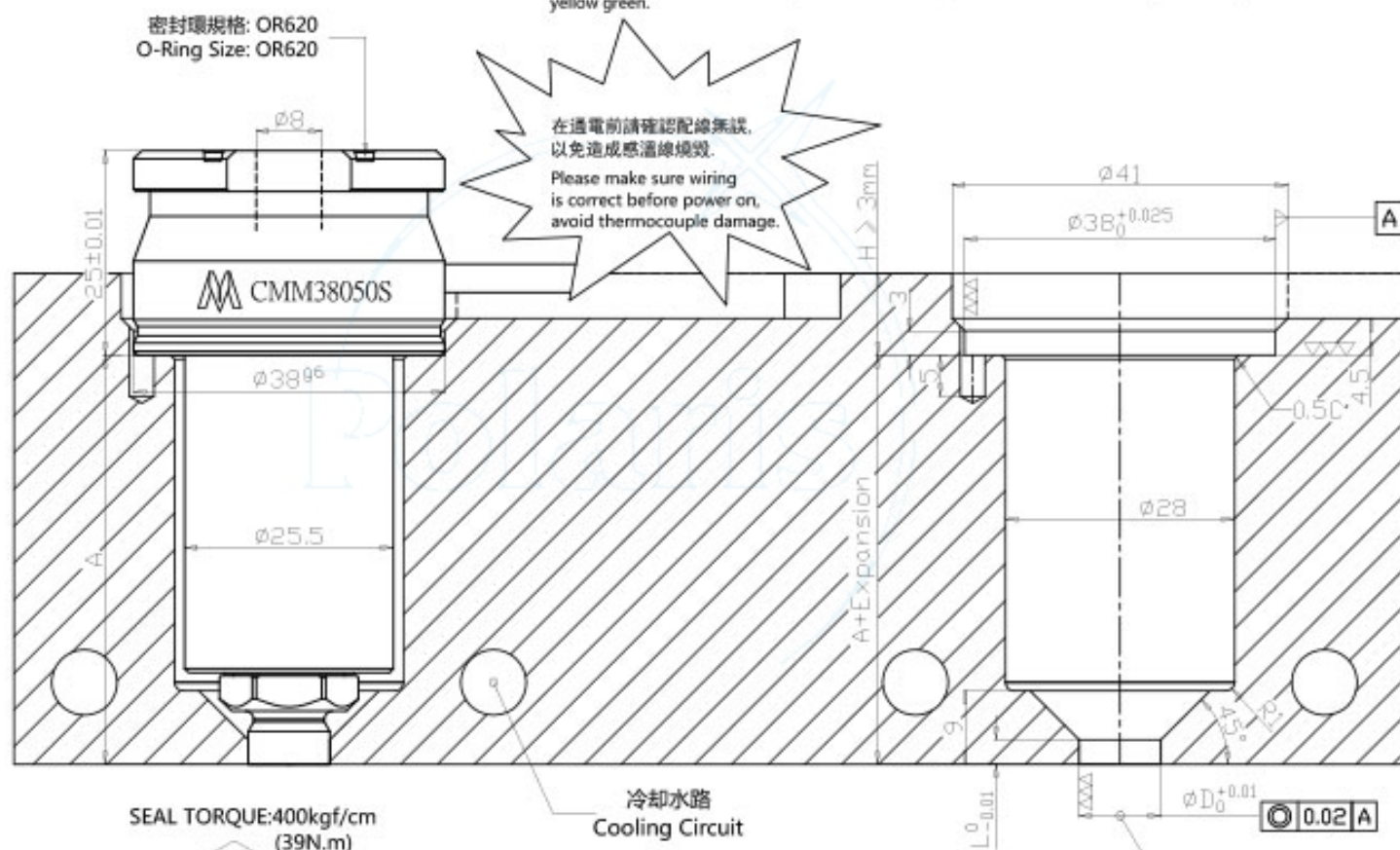
G dimension selection from  $\phi 0.6 \sim 1.8 \text{mm}$ , the final size should be determined by application.



| 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             |

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

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

For Example,

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

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.



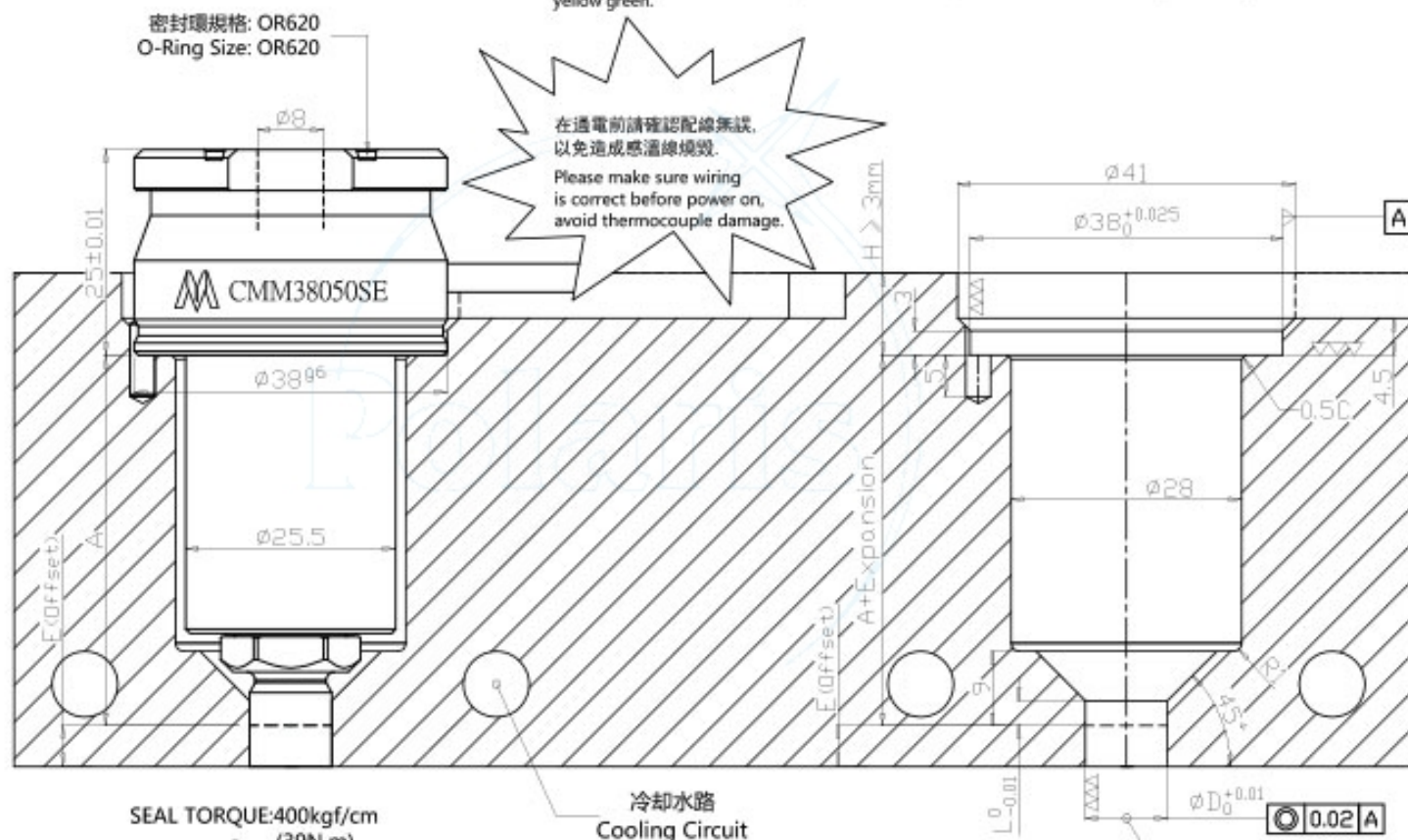
| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W |
|---------------------|-----------------------|----------------------|-------------------|
| CMM38050SE          | 50                    | CH-16033BY           | 330               |
| CMM38065SE          | 65                    | 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：

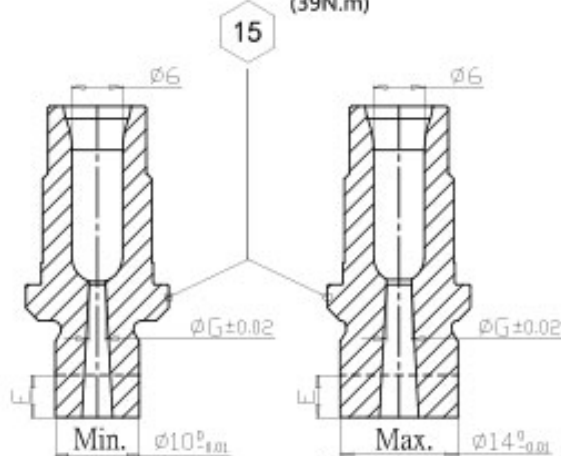
E尺寸可依客戶模具需求訂制合適的長度尺寸。

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。

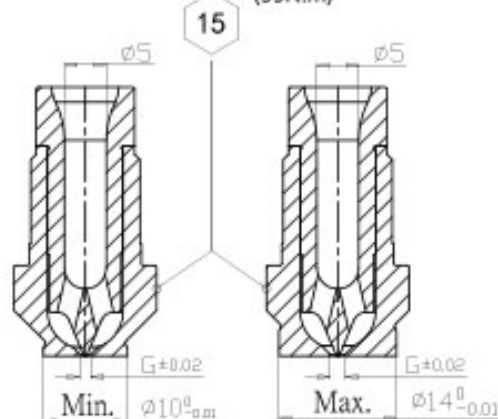
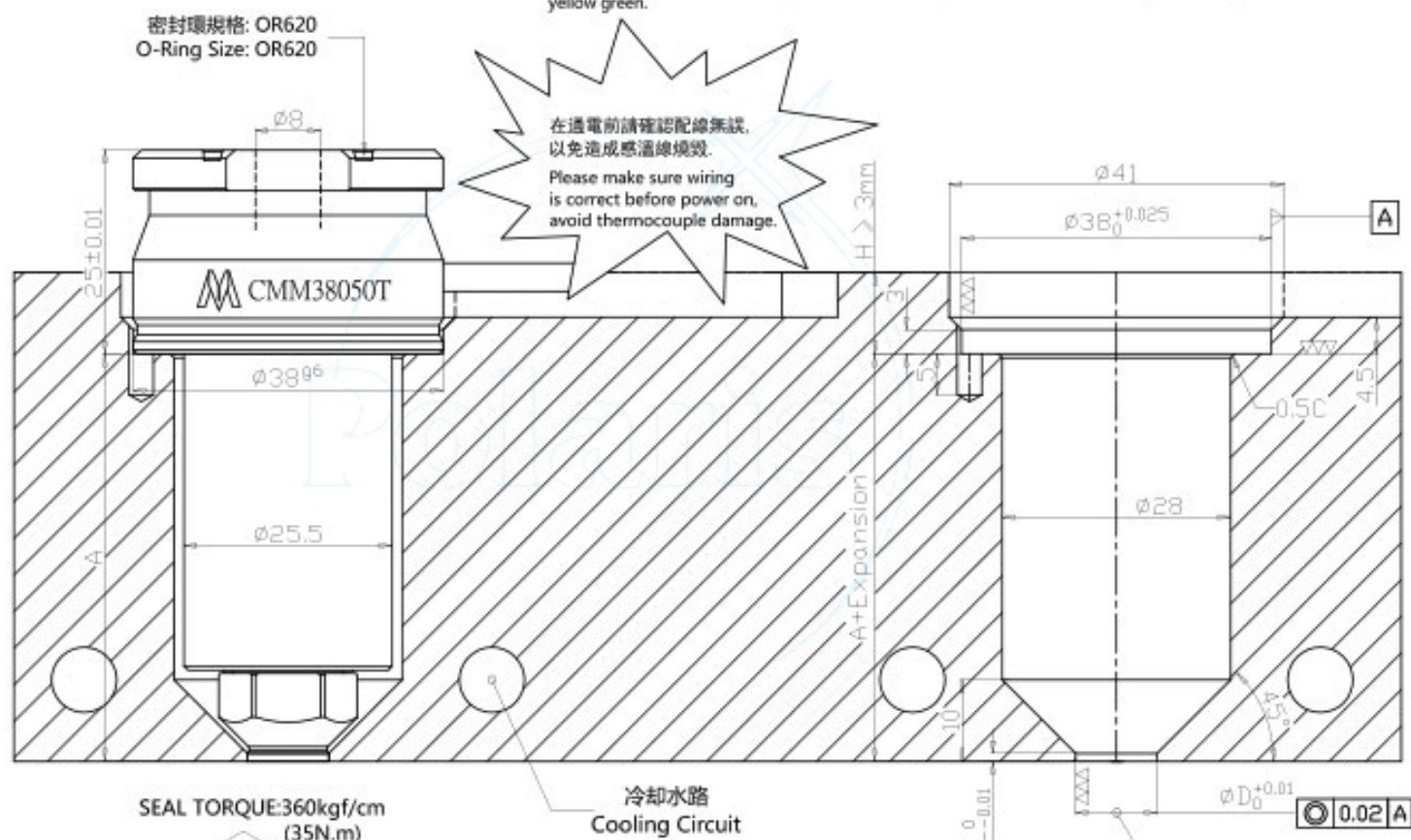
G dimension selection from  $\phi 1.5 \sim 2.5 \text{mm}$ , the final size should be determined by application.



| 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 | <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> |
|---------------------|-----------------------|----------------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CMM38050T           | 50                    | CH-16033BY           | 330               |                                                                                                                                                                    |
| 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:  
溝口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<br>ØD dia/mm | L尺寸/mm<br>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               |                                                                                                                                                                     |

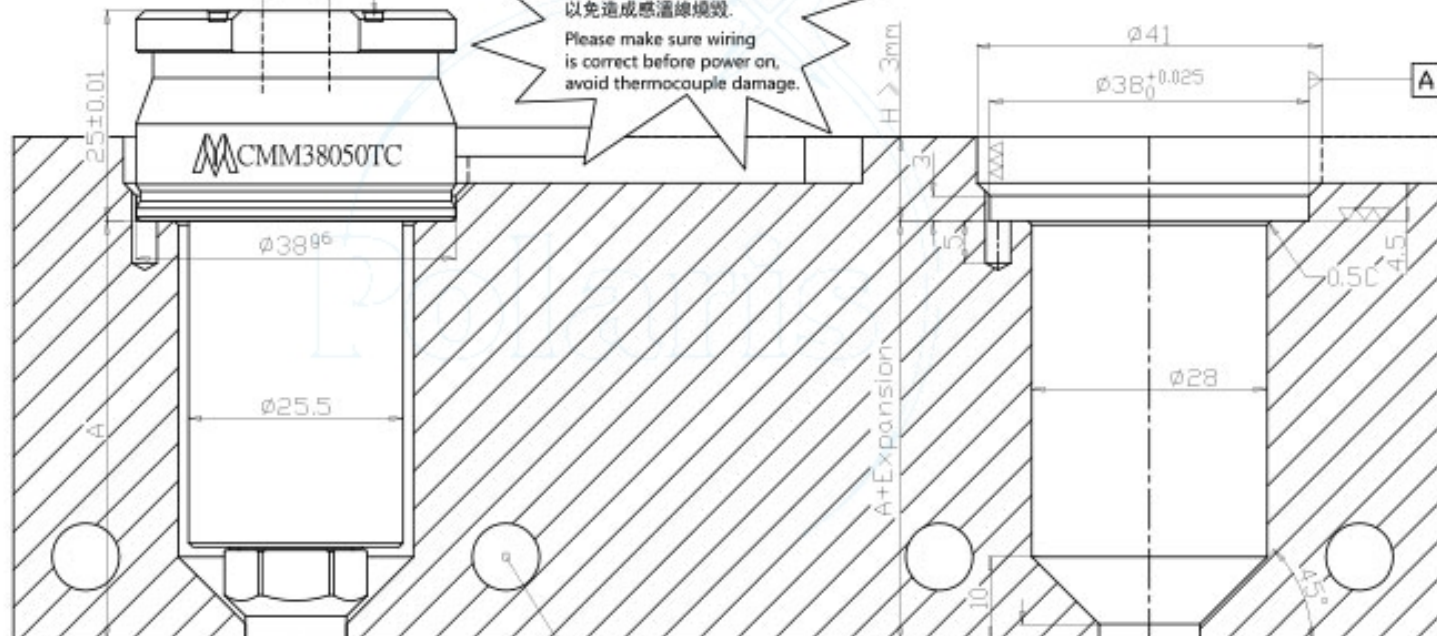
請注意: 本系統加熱器出線共有五條, 其中兩條是電熱線, 顏色各為橘色與灰色, 另外兩條為歐規J型絕緣式感溫線, 紅色代表正極, 藍色代表負極, 最後一條是接地線, 顏色為黃綠色。

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.



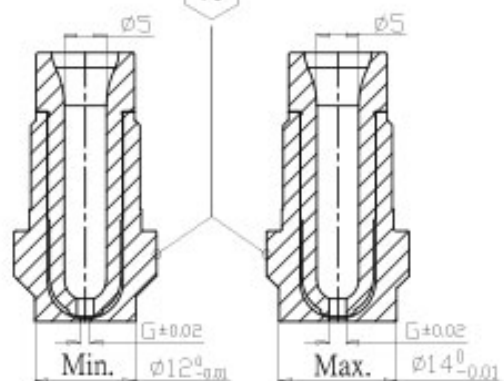
密封環規格: OR620  
O-Ring Size: OR620

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: 360kgf/cm (35N.m)

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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. 12.0            | 2.0                   |
| Max. 14.0            | 3.0                   |

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

G dimension selection from  $\phi 1.0 \sim 1.8$ mm, 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

## CMM38-Type TCE



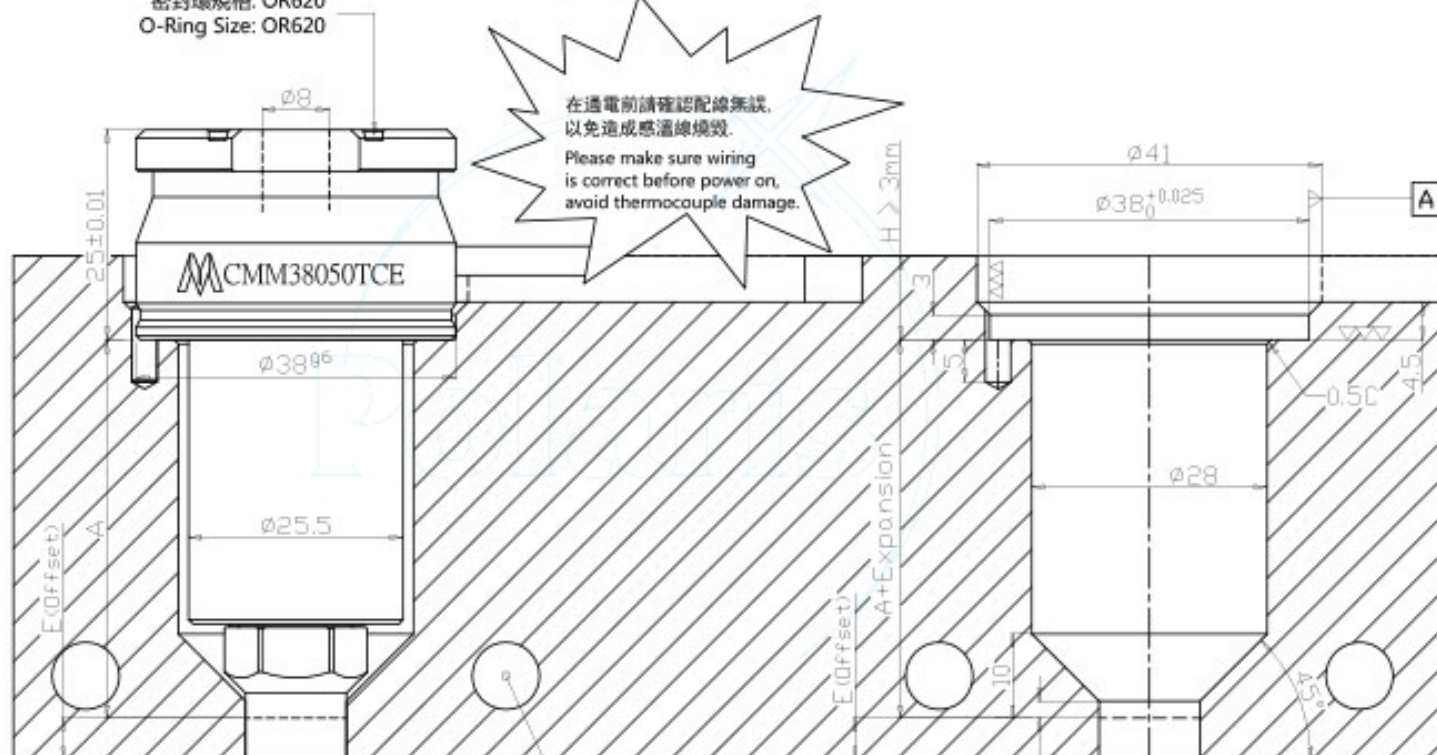
| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W | 本系列灌嘴長度亦可依模具設計提供客製品。相關產品圖面需求請與本公司相關人員洽詢。<br>For C series, we offer tailor-made nozzle length option, please contact us for drawing and further details. |
|---------------------|-----------------------|----------------------|-------------------|-----------------------------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

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: 360kgf/cm  
(35N.m)

冷却水路  
Cooling Circuit

灌嘴熱膨脹參考表

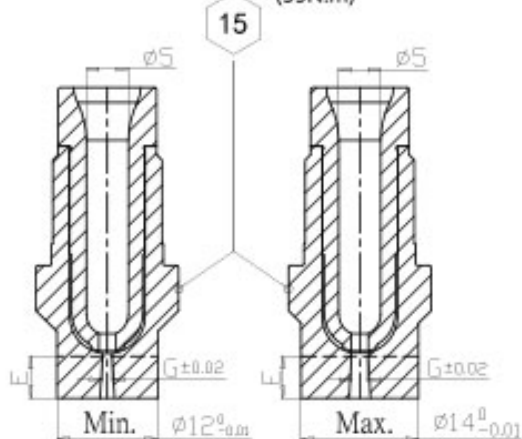
Nozzle thermo expansion length table

| 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.



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

For Example,

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

請注意/Note:  
滴口G大小範圍從1.5~1.8mm,尺寸依  
成型材質及成品厚薄來決定。  
G dimension selection from  
1.5~1.8mm, the final size should be  
determined by application.

## CMM38-Type TE

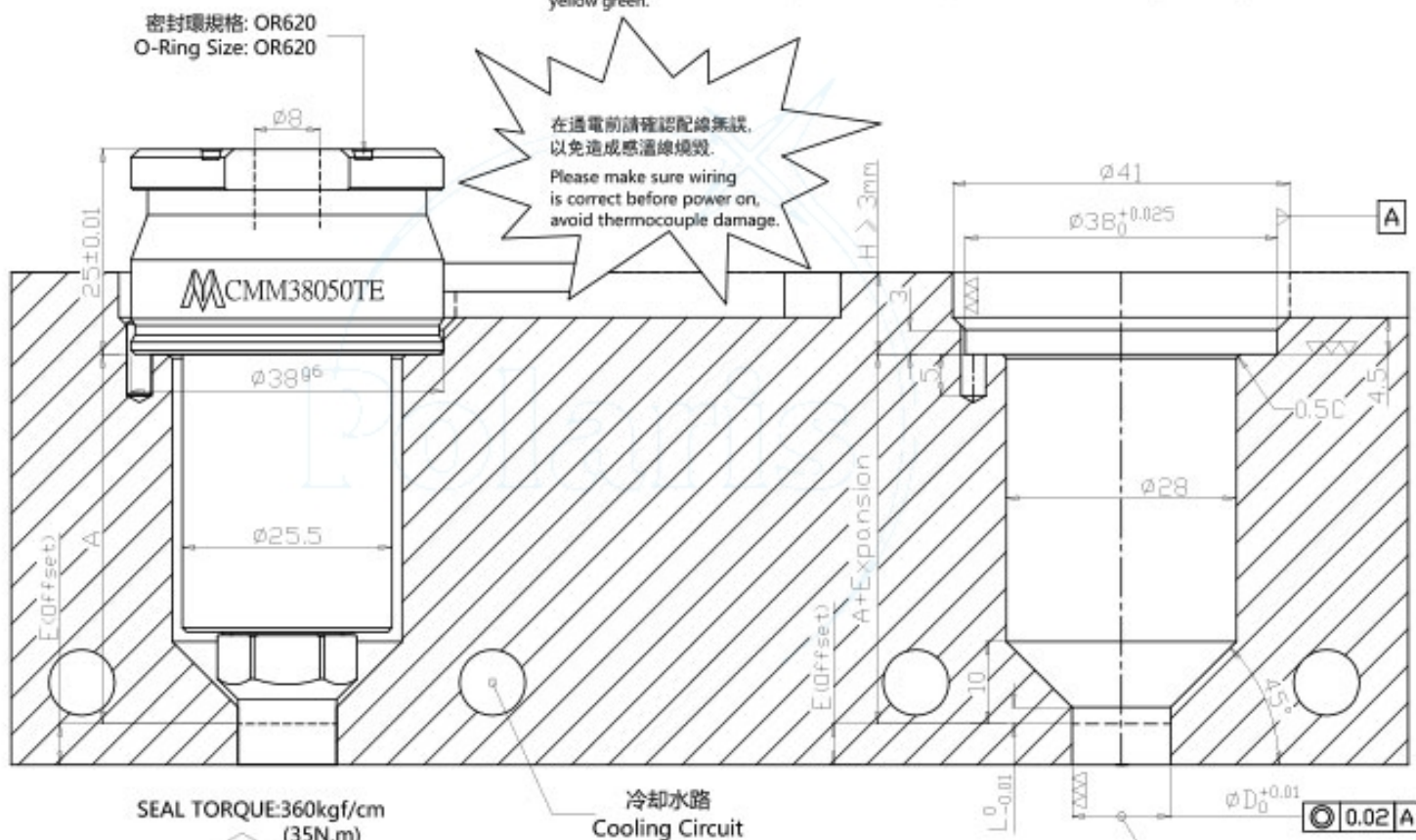


| 灌嘴型號<br>Nozzle code | A尺寸/mm<br>A Length/mm | 加熱器編號<br>Heater code | 加熱功率/W<br>Power/W |
|---------------------|-----------------------|----------------------|-------------------|
| CMM38050TE          | 50                    | CH-16033BY           | 330               |
| CMM38065TE          | 65 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

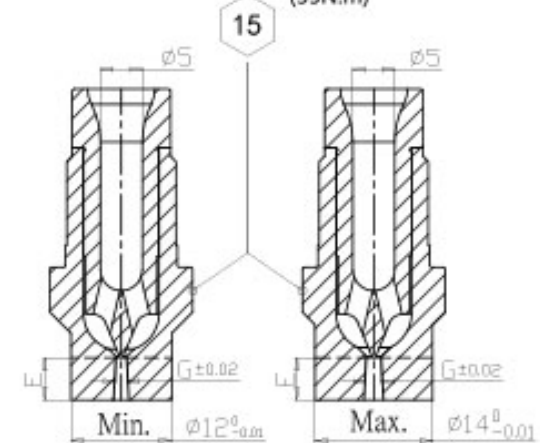
本系列灌嘴長度亦可依模具設計提供客製品。相關產品圖面需求請與本公司相關人員洽詢。  
For C series, we offer tailor-made nozzle length option, please contact us for drawing and further details.

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.



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.



請注意/Note:  
滴口G大小範圍從1.5~2.7mm, 尺寸依成型材質及成品厚薄來決定。  
G dimension selection from 1.5~2.7mm, 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      |                  |
| 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)  
=0.16mm