



# SN-5<sup>®</sup> SERIES

## YOU LI HYDRAULIC

SECTIONAL DIRECTIONAL CONTROL VALVES

片式控制閥

For MOBILE and INDUSTRIAL HYDRAULIC APPLICATIONS.

車輛及產業用油壓零件 / 各式油壓閥專業製造廠



油力油壓工業股份有限公司  
YOU LI HYDRAULIC INDUSTRIAL CO., LTD.

## SN-5 Sectional Directional Control Valves 片式控制閥

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## Monoblock Directional Control Valves 塊式控制閥



### MB-1

Available sections from 1 to 6 可使用聯數：1~6

|                                                  |                  |          |            |
|--------------------------------------------------|------------------|----------|------------|
| Nominal flow rate                                | 額定流量             | 25 l/min | 6.6 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar  | 4600 psi   |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar   | 360 psi    |



### MB-2

Available sections from 1 可使用聯數：1

|                                                  |                  |          |           |
|--------------------------------------------------|------------------|----------|-----------|
| Nominal flow rate                                | 額定流量             | 45 l/min | 12 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 250 bar  | 3600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar   | 360 psi   |



### MB-3

Available sections from 1 to 7 可使用聯數：1~7

|                                                  |                  |          |           |
|--------------------------------------------------|------------------|----------|-----------|
| Nominal flow rate                                | 額定流量             | 45 l/min | 12 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar  | 4600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar   | 360 psi   |



### MB-4

Available sections from 1 to 6 可使用聯數：1~6

|                                                  |                  |          |           |
|--------------------------------------------------|------------------|----------|-----------|
| Nominal flow rate                                | 額定流量             | 60 l/min | 16 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar  | 4600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar   | 360 psi   |



# Monoblock Directional Control Valves

## 塊式控制閥



### MB-5

Available sections from 1 to 6 可使用聯數：1~6

|                                                  |                  |          |           |
|--------------------------------------------------|------------------|----------|-----------|
| Nominal flow rate                                | 額定流量             | 80 l/min | 21 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar  | 4600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar   | 360 psi   |



### MB-6

Available sections from 1 to 4 可使用聯數：1~4

|                                                  |                  |           |           |
|--------------------------------------------------|------------------|-----------|-----------|
| Nominal flow rate                                | 額定流量             | 120 l/min | 32 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar   | 4600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar    | 360 psi   |



### MB-7

Available sections from 1 to 4 可使用聯數：1~4

|                                                  |                  |           |           |
|--------------------------------------------------|------------------|-----------|-----------|
| Nominal flow rate                                | 額定流量             | 160 l/min | 42 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 250 bar   | 3620 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar    | 360 psi   |





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## Monoblock Directional Control Valves 塊式控制閥



### MSB-3

Available sections from 1 to 6 可使用聯數：1~6

|                                                  |                  |          |           |
|--------------------------------------------------|------------------|----------|-----------|
| Nominal flow rate                                | 額定流量             | 70 l/min | 18 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar  | 4600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar   | 360 psi   |



### MSB-5

Available sections from 1 to 6 可使用聯數：1~6

|                                                  |                  |          |           |
|--------------------------------------------------|------------------|----------|-----------|
| Nominal flow rate                                | 額定流量             | 80 l/min | 21 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar  | 4600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar   | 360 psi   |

## Sectional Directional Control Valves 片式控制閥



### SN-3

Available sections from 1 to 12 可使用聯數：1~12

|                                                  |                  |          |           |
|--------------------------------------------------|------------------|----------|-----------|
| Nominal flow rate                                | 額定流量             | 50 l/min | 13 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar  | 4600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar   | 360 psi   |

# Sectional Directional Control Valves

## 片式控制閥



### SN-4

Available sections from 1 to 12 可使用聯數：1~12

|                                                  |                  |          |           |
|--------------------------------------------------|------------------|----------|-----------|
| Nominal flow rate                                | 額定流量             | 80 l/min | 21 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar  | 4600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar   | 360 psi   |



### SN-5

Available sections from 1 to 12 可使用聯數：1~12

|                                                  |                  |           |           |
|--------------------------------------------------|------------------|-----------|-----------|
| Nominal flow rate                                | 額定流量             | 120 l/min | 32 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar   | 4600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar    | 360 psi   |



### SN-6

Available sections from 1 to 12 可使用聯數：1~12

|                                                  |                  |           |           |
|--------------------------------------------------|------------------|-----------|-----------|
| Nominal flow rate                                | 額定流量             | 160 l/min | 42 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar   | 4600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar    | 360 psi   |

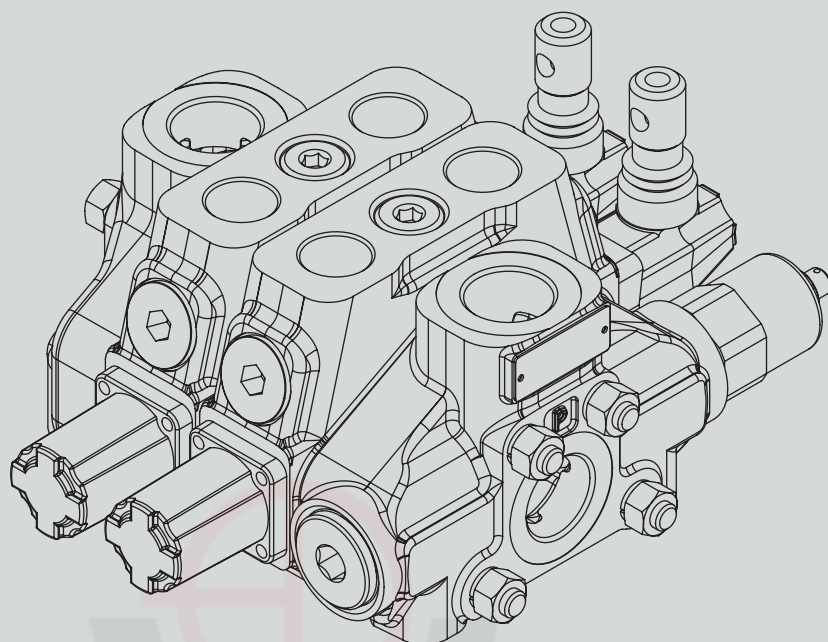


### SN-8

Available sections from 1 to 12 可使用聯數：1~12

|                                                  |                  |           |           |
|--------------------------------------------------|------------------|-----------|-----------|
| Nominal flow rate                                | 額定流量             | 240 l/min | 63 US gpm |
| Operating pressure (Maximum)<br>Parallel circuit | 工作壓力(最大)<br>並聯迴路 | 315 bar   | 4600 psi  |
| Back pressure (Maximum)<br>on outlet port T      | 背壓(最大)<br>出油口 T  | 25 bar    | 360 psi   |





***Innovative Designs***  
***Professional Quality***  
***Customer Satisfaction !***

創新設計  
專業品質  
客戶滿意度

AVAILABLE SECTIONS FROM  
可使用的聯數

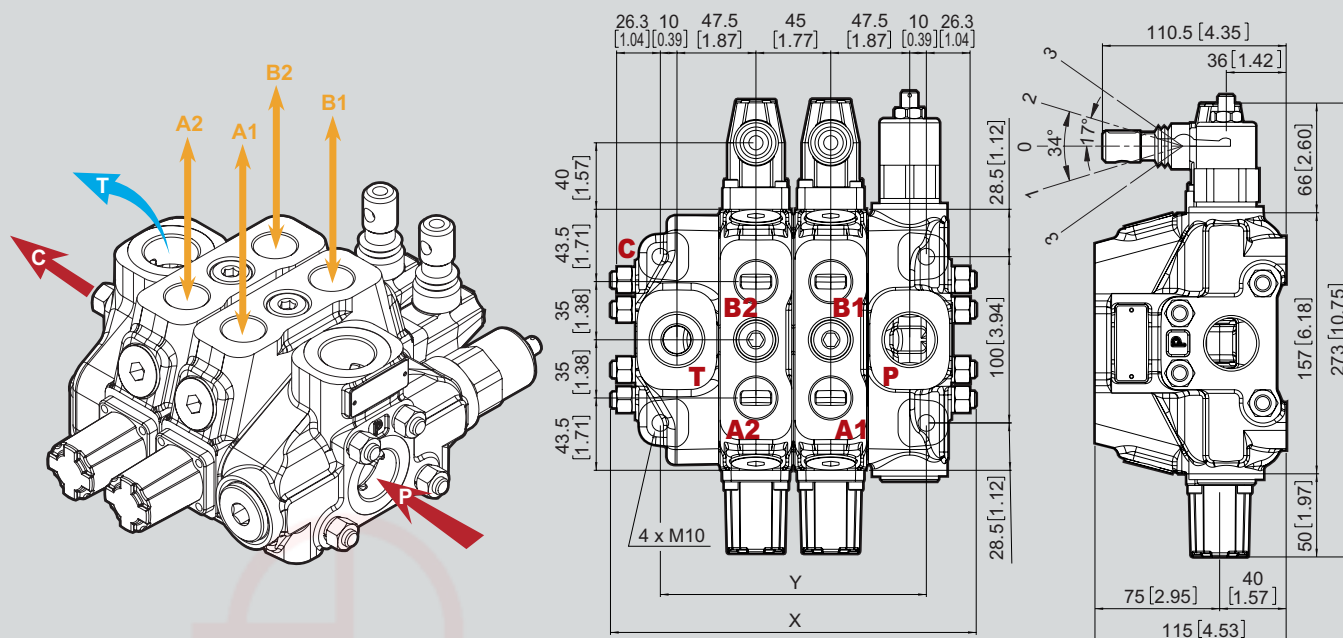
1 TO 12

SN-5

Sectional Directional Control Valves 片式控制閥



## SN-5 Sectional Directional Control Valves 片式控制閥



## Specifications 規格

| Nominal flow 額定流量                  |                         | 120 L/min                                     | 32 US gpm        |
|------------------------------------|-------------------------|-----------------------------------------------|------------------|
| Operating pressure (Max.) 使用壓力(最大) |                         | 315 bar                                       | 4600 psi         |
| Back pressure (Max.) 背壓(最大)        | Outlet port port T 回油口T | 25 bar                                        | 360 psi          |
| Fluid temperature range 流體溫度範圍     | With NBR seals O環(NBR)  | - 20 °C ~ 80 °C                               | - 4 °F ~ 176 °F  |
|                                    | With FPM seals O環(FPM)  | - 20 °C ~ 100 °C                              | - 4 °F ~ 212 °F  |
| Viscosity 黏度係數                     | Operating range 建議使用範圍  | 15 mm <sup>2</sup> /s ~ 75 mm <sup>2</sup> /s | 15 ~ 75 cst      |
|                                    | Min. 最小                 | 12 mm <sup>2</sup> /s                         | 12 cst           |
|                                    | Max. 最大                 | 400 mm <sup>2</sup> /s                        | 400 cst          |
| Ambient temperature range 環境溫度範圍   |                         | - 40 °C ~ 60 °C                               | - 40 °F ~ 140 °F |

- All specifications, dimensions and design characteristics shown in this catalogue are subject to change without notice.
- 本公司之產品規格、設計特性，均不斷研究改進，尺寸規格如有變動，恕不另行通知。

## Standard Threads 螺紋規範

| Port 口位 | Inlet P 入油口        | A and B ports 工作口   | Outlet T and power beyond C 回油口 |
|---------|--------------------|---------------------|---------------------------------|
| BSP     | G3/4               | G3/4                | G1                              |
| UN-UNF  | 1" 5/16-12 (SAE16) | 1" 1/16-12 (SAE 12) | 1" 5/16-12 (SAE 16)             |

## Standard Dimensions 標準尺寸

| TYPE 聯數    | X   |       | Y   |       | TYPE 聯數      | X   |       | Y   |       |
|------------|-----|-------|-----|-------|--------------|-----|-------|-----|-------|
|            | mm  | in    | mm  | in    |              | mm  | in    | mm  | in    |
| SN5 /1S 一聯 | 145 | 5.71  | 115 | 4.53  | SN5 /7S 七聯   | 415 | 16.34 | 385 | 15.16 |
| SN5 /2S 二聯 | 190 | 7.48  | 160 | 6.30  | SN5 /8S 八聯   | 460 | 18.11 | 430 | 16.93 |
| SN5 /3S 三聯 | 235 | 9.25  | 205 | 8.07  | SN5 /9S 九聯   | 505 | 19.88 | 475 | 18.70 |
| SN5 /4S 四聯 | 280 | 11.02 | 250 | 9.84  | SN5 /10S 十聯  | 550 | 21.65 | 520 | 20.47 |
| SN5 /5S 五聯 | 325 | 12.80 | 295 | 11.61 | SN5 /11S 十一聯 | 595 | 23.43 | 565 | 22.24 |
| SN5 /6S 六聯 | 370 | 14.57 | 340 | 13.39 | SN5 /12S 十二聯 | 640 | 25.20 | 610 | 24.02 |



# Performance Curve Chart 性能曲線圖

## SN-5 Sectional Directional Control Valves 片式控制閥

High loading with simple design, can be used for open and closed center of hydraulic system, from 1-12 sections are available.

高負載且簡潔的片式閥設計，提供1到12聯，可用於開放及封閉液壓系統。

**1** Built-in a main pressure relief valve and also have a load check valve on each working section.

**1** 可使用溢流閥且每個工作聯配有止回閥機構。

**2** Can be fitted with Parallel, Series or Tandem circuit to meet your requirement.

**2** 可提供並聯、串聯或串並聯迴路。

**3** Voltage range of optional: 12VDC / 24VDC

**3** 電壓可供選擇。

**4** Supply a wide type of threads ports and circuit valves.

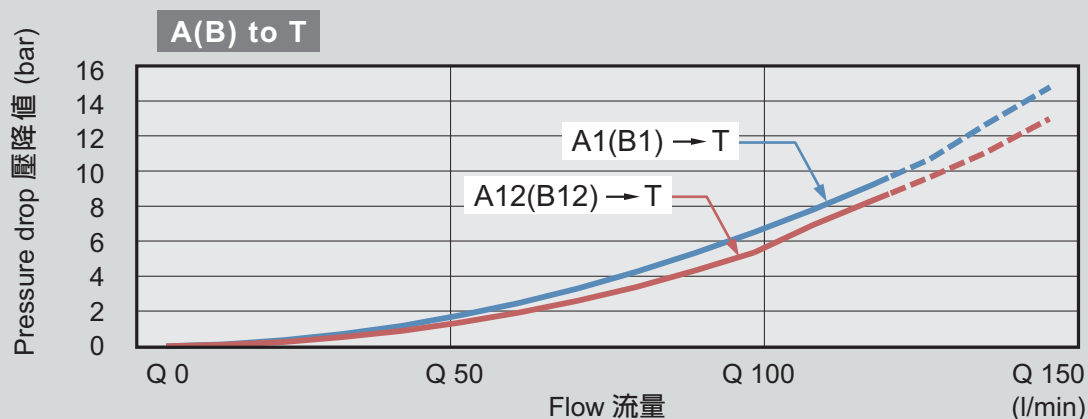
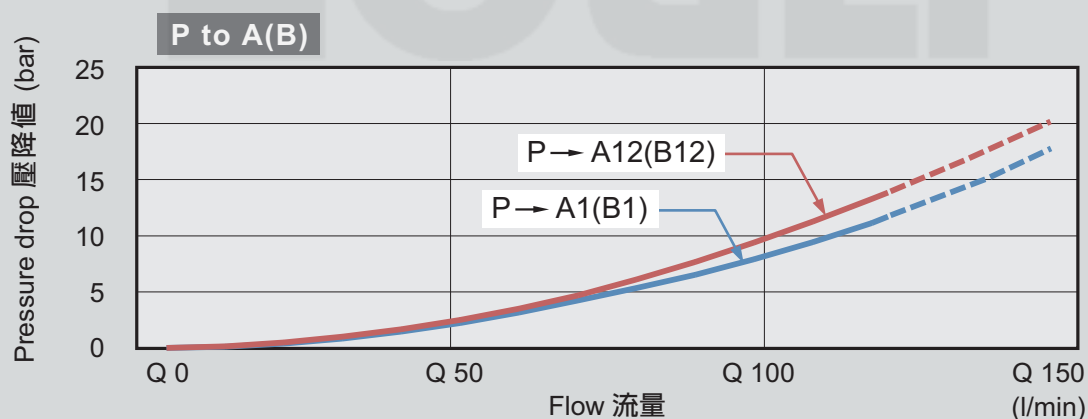
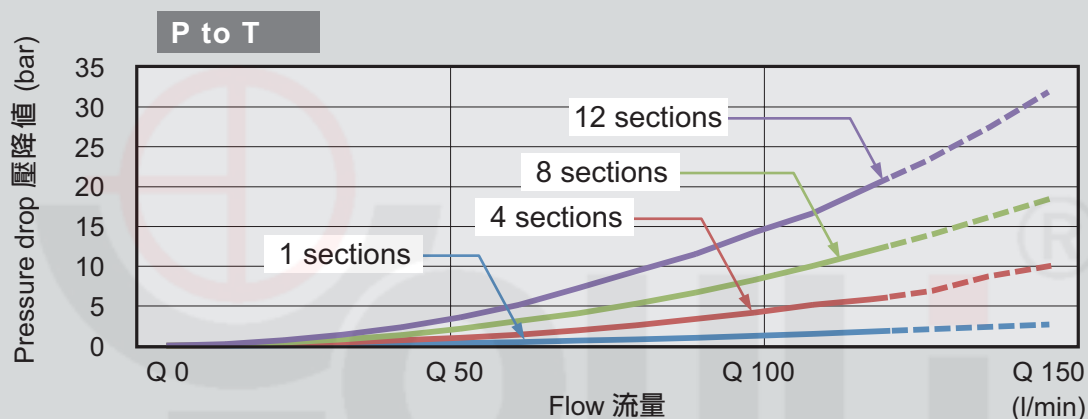
**4** 可提供多種類的牙口及迴路之閥體。

**5** Supply a lot of functions such as Manual, Pneumatic, Pilot hydraulic, and electro actuators. Remote cable joystick operation kits.

**5** 可提供手控、氣控、液控、電液控及遠端纜線控制套件。

**6** Diameter 20 mm (0.79 in) and interchangeable spools.

**6** 直徑 20 mm (0.79 in) 可更換的心軸。



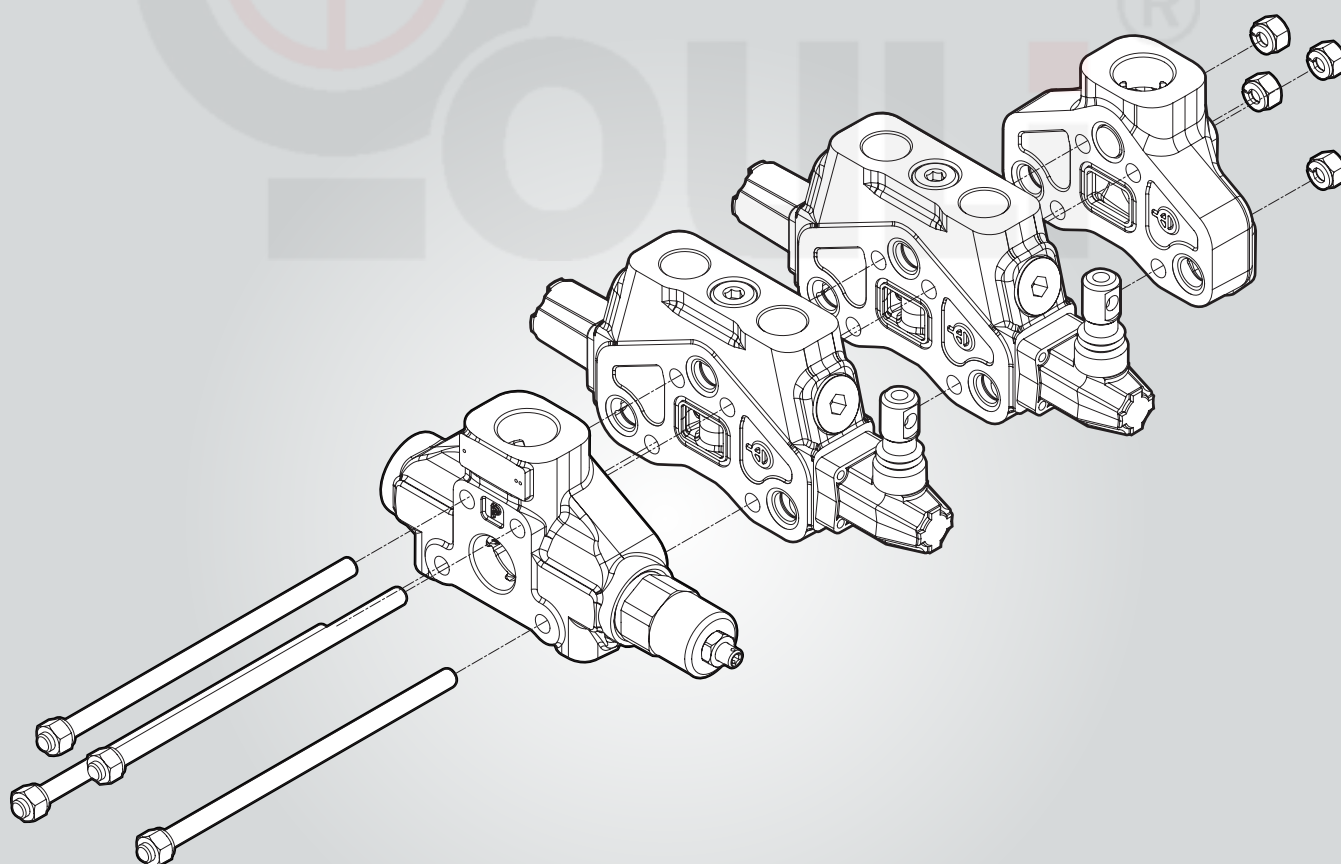
## SN-5 Sectional Directional Control Valves 片式控制閥

### HOW TO ORDER FOR A COMPLETE ASSEMBLED VALVE

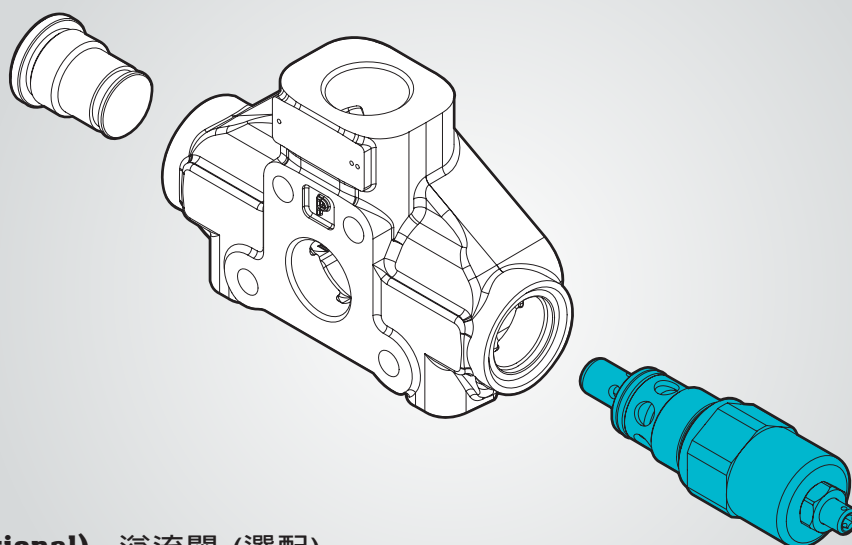
訂購範例/說明：

SN-5 / **2S** - **3** / **18L** / **28L** / **G8-6-8** / **M3**

|               |                                               |            |
|---------------|-----------------------------------------------|------------|
| <b>2S</b>     | No. of working section                        | 聯數         |
| <b>3</b>      | Inlet cover with a main pressure relief valve | 溢流閥設定      |
| <b>18L</b>    | 1st section (complete working section)        | 第一聯的功能需求   |
| <b>28L</b>    | Following section (complete working section)  | 第二聯的功能需求   |
| <b>G8-6-8</b> | BSP ports: G8 (P)-6 (W)-8 (T)                 | 螺紋規格       |
| <b>M3</b>     | Outlet cover                                  | 迴路 / 二次壓需求 |



## SN-5 Sectional Directional Control Valves 片式控制閥

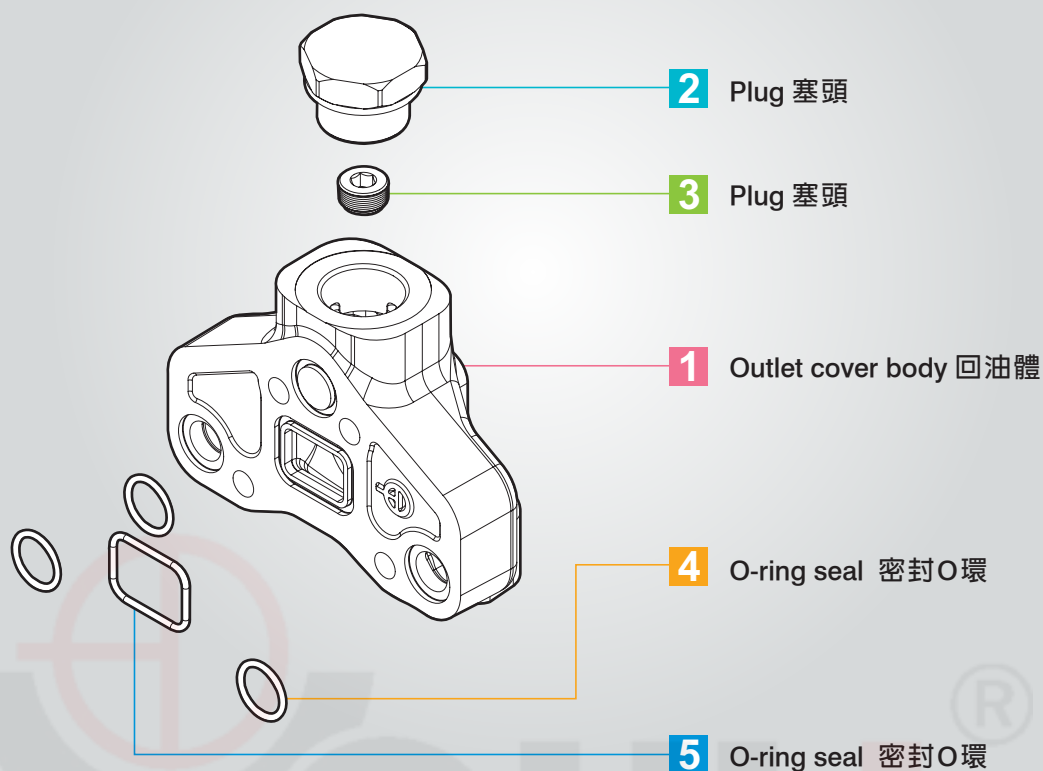


### Inlet Relief (optional) 溢流閥 (選配)

| Type 型式 | Code 編號    | Description 說明                                                                                                                                                            | Page 頁數 |
|---------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| FG-2    | YLPSN53002 | Range 80~160 bar / 1150~2300 psi, standard setting 125 bar / 1800 psi.<br>工作範圍 80~160 bar / 1150~2300 psi, 標準設定125bar / 1800 psi                                          | P. 10   |
| FG-3    | YLPSN53003 | Range 125~250 bar / 1800~3600 psi, standard setting 175 bar / 2500 psi.<br>工作範圍 125~250 bar / 1800~3600 psi, 標準設定175bar / 2500 psi                                        | P. 10   |
| XFG     | YLPSN63000 | Pilot operated pressure relief valve range 25~315 bar / 360~4600 psi, standard setting 125 bar / 1800 psi. 引導式溢流閥, 工作範圍 25~315 bar / 360~4600 psi, 標準設定125 bar / 1800 psi | P. 10   |
| SV      | YLPSN64000 | Relief valve blanking plug. 塞頭 / 不使用溢流閥                                                                                                                                   | P. 10   |

|             |                        |                                              |
|-------------|------------------------|----------------------------------------------|
| Type FG 型式  | Code 編號 : ylpsn53002-3 | Direct pressure relief valve: 直動式溢流閥         |
|             |                        |                                              |
| Type XFG 型式 | Code 編號 : YLPSN63000   | Pilot operated pressure relief valve: 引導式溢流閥 |
|             |                        |                                              |
| Type SV 型式  | Code 編號 : YLPSN64000   | Relief valve blanking plug: 塞頭               |
|             |                        |                                              |

## SN-5 Sectional Directional Control Valves 片式控制閥

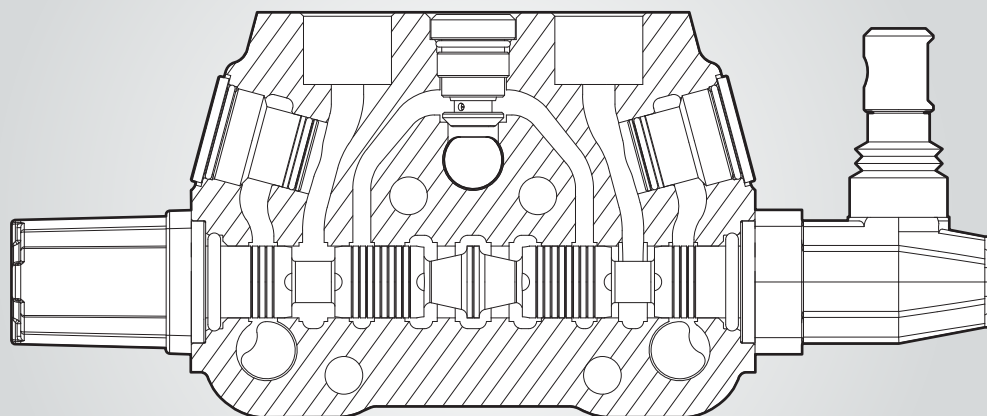


### Outlet Section 出口端

| NO. 編號 | Name of section 品名                      | Q' 數量 |
|--------|-----------------------------------------|-------|
| 1      | Outlet cover body 回油體                   | 1     |
| 2      | Plug 塞頭                                 | 1     |
| 3      | Plug 塞頭 (M18 x P1.5)                    | 1     |
| 4      | O-ring seal 密封O環 18.72 x 2.62 NBR 90 SH | 3     |
| 5      | O-ring seal 密封O環 34.60 x 2.62 NBR 90 SH | 1     |



## SN-5 Sectional Directional Control Valves 片式控制閥



## Spool Options 心軸

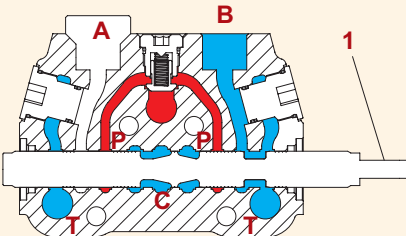
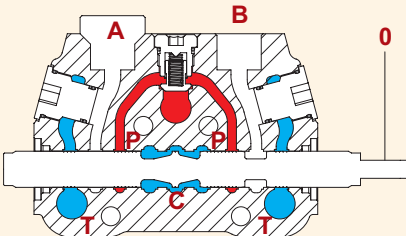
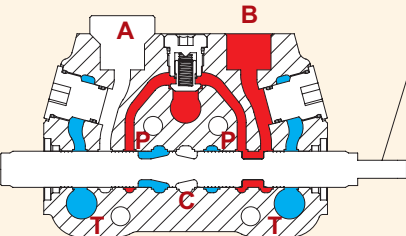
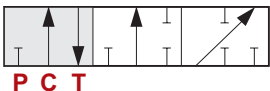
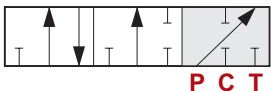
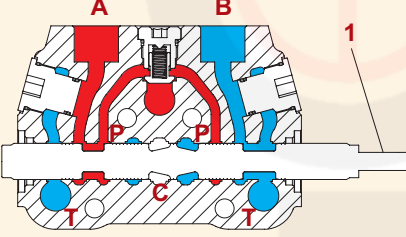
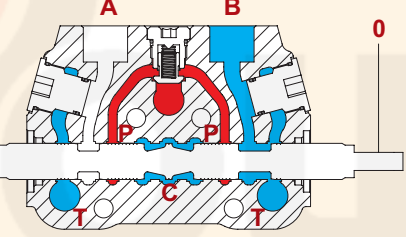
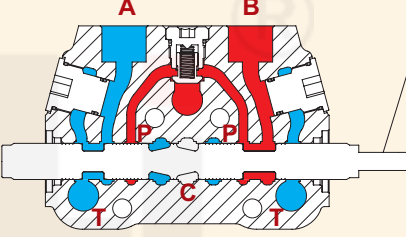
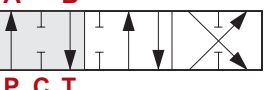
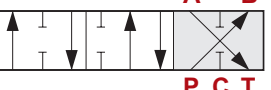
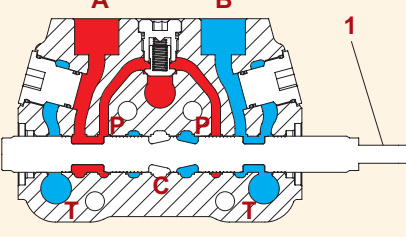
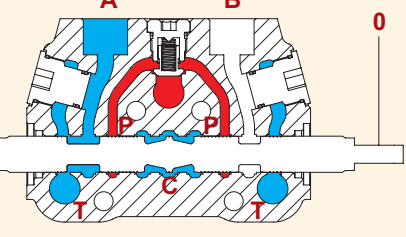
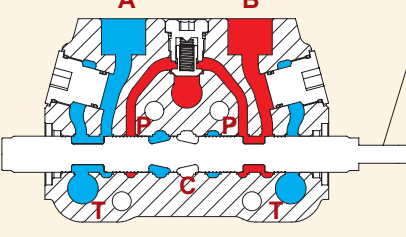
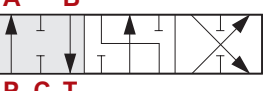
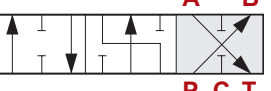
| Type 型式 | Code 編號    | Description 說明                                                                                                  | Page 頁數 |
|---------|------------|-----------------------------------------------------------------------------------------------------------------|---------|
| 1       | YLWSN52001 | Double acting, 3 positions, with A and B closed in neutral position.<br>雙工作口 / 3 位置切換 / 中立位置 AB 口阻斷             | P. 13   |
| 2       | YLWSN52002 | Double acting, 3 positions, with A and B open to tank in neutral position.<br>雙工作口 / 3 位置切換 / 中立位置 AB 口通回油      | P. 13   |
| 3       | YLWSN52003 | Single acting on A closed in neutral position, 3 positions, B plugged.<br>單工作口 / 3 位置切換 / 中立位置 A 口阻斷 / B 口用塞頭堵住 | P. 13   |
| 4       | YLWSN52004 | Single acting on B closed in neutral position, 3 positions, A plugged.<br>單工作口 / 3 位置切換 / 中立位置 B 口阻斷 / A 口用塞頭堵住 | P. 14   |
| 5       | YLWSN52005 | Double acting, 3 positions, with B open to Tank in neutral position.<br>雙工作口 / 3 位置切換 / 中立位置 B 口通回油             | P. 14   |
| 6       | YLWSN52006 | Double acting, 3 positions, with A open to Tank in neutral position.<br>雙工作口 / 3 位置切換 / 中立位置 A 口通回油             | P. 14   |

## SN-5 Sectional Directional Control Valves 片式控制閥

| TYPE 型式 (1) DESCRIPTION 描述 :                           |  | CODE 編號 : YLWSN52001 |
|--------------------------------------------------------|--|----------------------|
|                                                        |  |                      |
|                                                        |  |                      |
| TYPE 型式 (2) DESCRIPTION 描述 :                           |  | CODE 編號 : YLWSN52002 |
|                                                        |  |                      |
|                                                        |  |                      |
| TYPE 型式 (3) DESCRIPTION 描述 : "B" port plugged "B" 孔無作動 |  | CODE 編號 : YLWSN52003 |
|                                                        |  |                      |
|                                                        |  |                      |

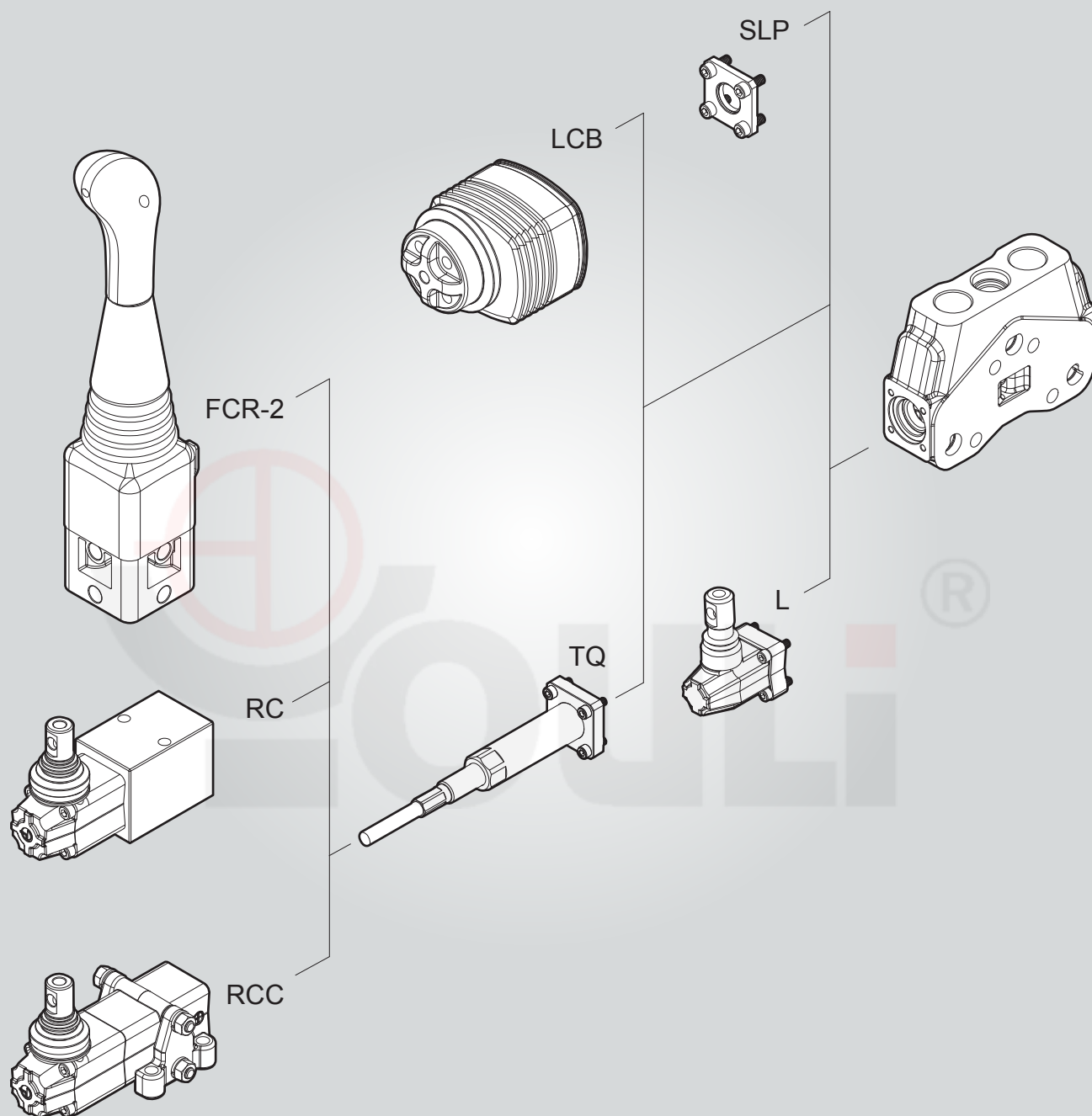
■ Outlet 出油
 ■ Inlet 入油

## SN-5 Sectional Directional Control Valves 片式控制閥

| TYPE 型式 (4) DESCRIPTION 描述: "A" port plugged "A" 孔無作動 CODE 編號: YLWSN52004                                             |                                                                                                                       |                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|                                      |                                      |                                      |
| <div>1 0 2</div>  <div>P C T</div>   | <div>1 0 2</div>  <div>P C T</div>   | <div>1 0 2</div>  <div>P C T</div>   |
| TYPE 型式 (5) DESCRIPTION 描述: CODE 編號: YLWSN52005                                                                       |                                                                                                                       |                                                                                                                         |
|                                    |                                    |                                    |
| <div>1 0 2</div>  <div>P C T</div> | <div>1 0 2</div>  <div>P C T</div> | <div>1 0 2</div>  <div>P C T</div> |
| TYPE 型式 (6) DESCRIPTION 描述: CODE 編號: YLWSN52006                                                                       |                                                                                                                       |                                                                                                                         |
|                                    |                                    |                                    |
| <div>1 0 2</div>  <div>P C T</div> | <div>1 0 2</div>  <div>P C T</div> | <div>1 0 2</div>  <div>P C T</div> |

Outlet 出油 Inlet 入油

## SN-5 Sectional Directional Control Valves 片式控制閥



## A Side A 側

| Type 型式 | Code 編號    | Description 說明                                       | Page 頁數 |
|---------|------------|------------------------------------------------------|---------|
| L       | YLWSN54000 | Standard lever<br>標準手柄控制配件                           | P. 16   |
| SLP     | YLWSN54001 | Without lever, with dust proof plate<br>防塵蓋控制配件      | P. 16   |
| LCB     | YLWSN54002 | Joystick lever for 2 section operation<br>手柄控制配件(兩軸) | P. 16   |
| TQ      | YLWSN54003 | Flexible cable connection<br>纜線控制配件                  | P. 17   |



## SN-5 Sectional Directional Control Valves 片式控制閥

| Type L 型式                                | Code 編號 : YLWSN54000 | Type SLP 型式                                | Code 編號 : YLWSN54001 |
|------------------------------------------|----------------------|--------------------------------------------|----------------------|
|                                          |                      |                                            |                      |
| <b>Standart Lever Kit 標準手柄控制配件 :</b><br> |                      | <b>With Dust-Proof Plate 防塵蓋控制配件 :</b><br> |                      |

| Type LCB 型式                                   | Code 編號 : YLWSN54002 |
|-----------------------------------------------|----------------------|
|                                               |                      |
| <b>LCB: Joystick Contorl 手柄控制配件(兩軸) :</b><br> |                      |

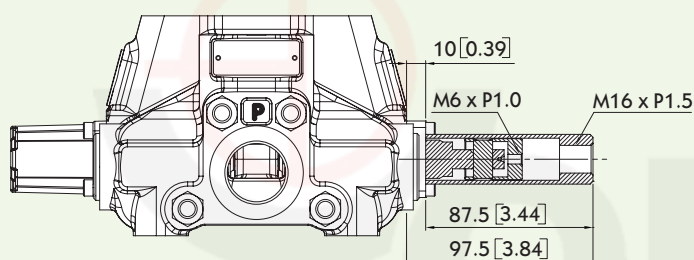
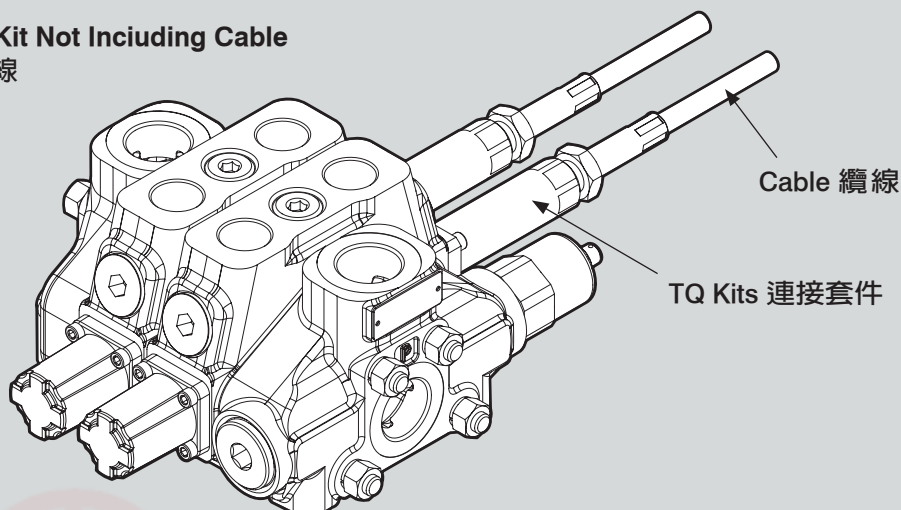
| Type LCB 型式 | LCB1 | LCB2 |
|-------------|------|------|
|             |      |      |
|             |      |      |
| Type LCB 型式 | LCB3 | LCB4 |
|             |      |      |
|             |      |      |

## SN-5 Sectional Directional Control Valves 片式控制閥

Type TQ 型式

Code 編號 : YLWSN54003

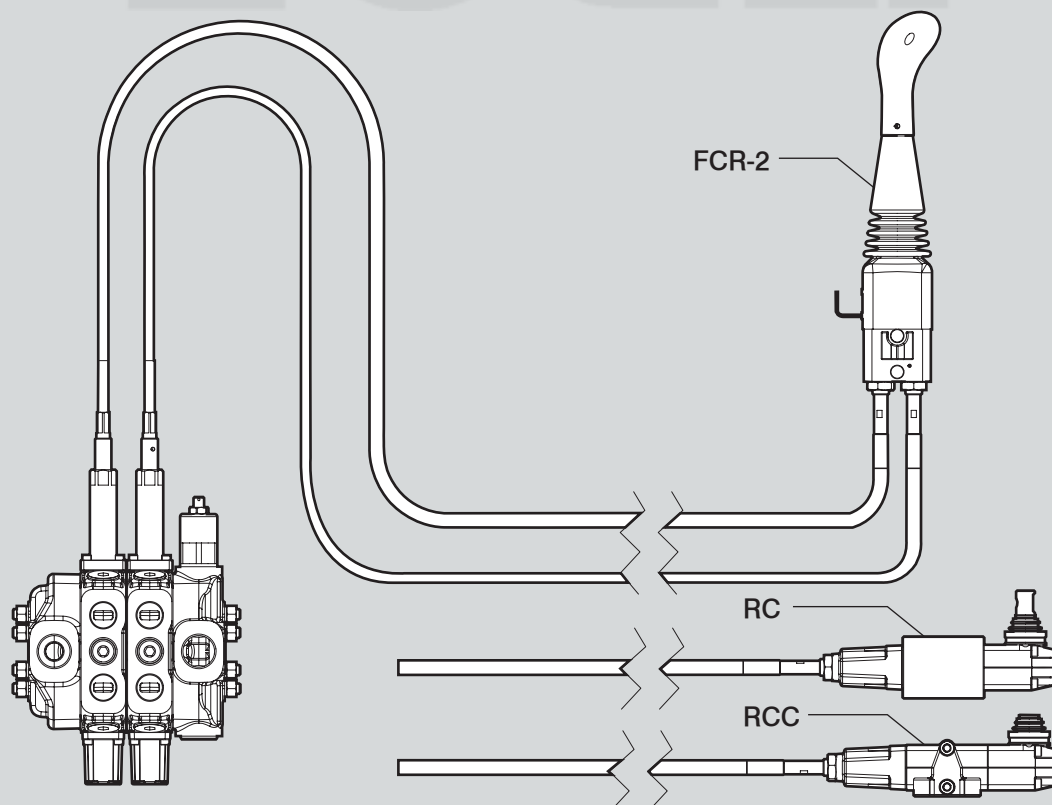
**Note : Connection Kit Not Including Cable**  
 連接套件不包括纜線



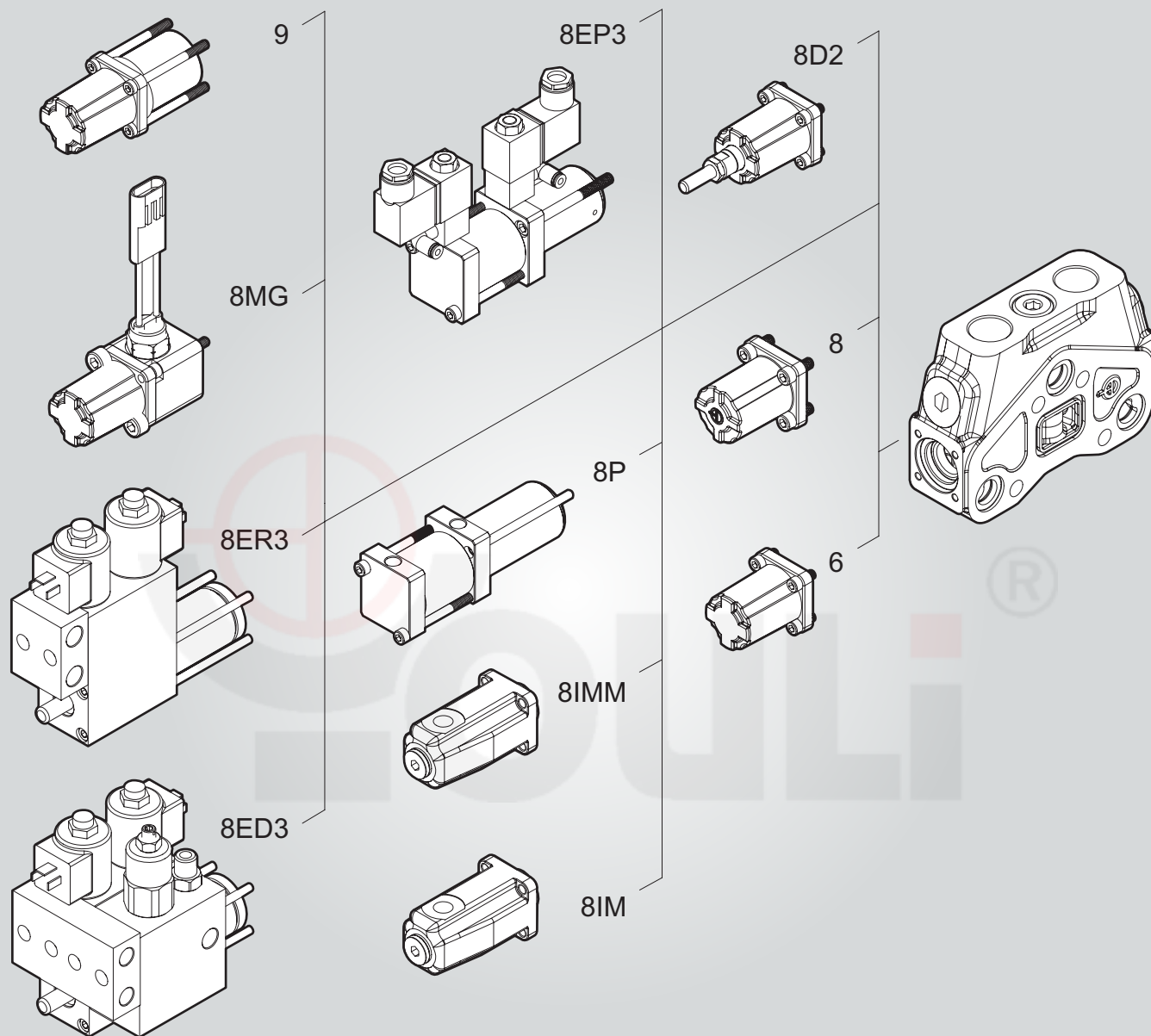
TQ Kit :



Type TQ 型式配件



## SN5 Sectional Directional Control Valves 片式控制閥



## B Side Spool Positioners B 側心軸定位器

| Type 型式 | Code 編號    | Description 說明                                                               | Page 頁數 |
|---------|------------|------------------------------------------------------------------------------|---------|
| 6-1     | YLWSN53061 | Detent in pos. 1-0-2, without spring centered<br>定位 0 & 1 & 2, 不帶彈簧復位        | P. 21   |
| 6-2     | YLWSN53062 | 2 positions, detent in pos. 0-2, without spring centered<br>定位 0 & 2, 不帶彈簧復位 | P. 21   |
| 6-3     | YLWSN53063 | 2 positions, detent in pos. 1-0, without spring centered<br>定位 1 & 0, 不帶彈簧復位 | P. 21   |
| 8       | YLWSN53008 | With spring return to neutral position<br>彈簧復位                               | P. 21   |
| 8-1     | YLWSN54081 | 2 positions, with spring centered from pos. 1<br>彈簧復位, 0 & 1 兩位置切換           | P. 21   |

## SN5 Sectional Directional Control Valves 片式控制閥

### B Side Spool Positioners B 側心軸定位器

| Type 型式        | Code 編號    | Description 說明                                                                                                                  | Page 頁數 |
|----------------|------------|---------------------------------------------------------------------------------------------------------------------------------|---------|
| 8-2            | YLWSN54082 | 2 positions, with spring centered from pos. 2<br>彈簧復位, 0 & 2 兩位置切換                                                              | P. 21   |
| 8D2            | YLWSN53082 | With spring return to neutral position and pin with M8 male thread for dual control<br>彈簧復位, 帶 M8 轉接螺紋                          | P. 22   |
| 9-1            | YLWSN53091 | Detent in pos. 1, 2 with spring centered<br>定位 1 & 2, 帶彈簧復位                                                                     | P. 22   |
| 9-2            | YLWSN53092 | Detent in pos. 2 with spring centered<br>定位 2, 帶彈簧復位                                                                            | P. 22   |
| 9-3            | YLWSN53093 | Detent in pos. 1 with spring centered<br>定位 1, 帶彈簧復位                                                                            | P. 22   |
| 8P             | YLWSN53080 | ON / OFF Pneumatic actuator<br>ON / OFF 氣動控制                                                                                    | P. 23   |
| 8EP3           | YLWSN54300 | ON / OFF Electro-Pneumatic actuator<br>ON / OFF 電氣動控制                                                                           | P. 23   |
| 8ED3+RV-KE1R3  | YLWSN53201 | 1S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 一聯 ON / OFF 電液控制 (12/24VDC)   | P. 24   |
| 8ED3+RV-KE2R3  | YLWSN53202 | 2S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 二聯 ON / OFF 電液控制 (12/24VDC)   | P. 24   |
| 8ED3+RV-KE3R3  | YLWSN53203 | 3S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 三聯 ON / OFF 電液控制 (12/24VDC)   | P. 24   |
| 8ED3+RV-KE4R3  | YLWSN53204 | 4S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 四聯 ON / OFF 電液控制 (12/24VDC)   | P. 24   |
| 8ED3+RV-KE5R3  | YLWSN53205 | 5S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 五聯 ON / OFF 電液控制 (12/24VDC)   | P. 24   |
| 8ED3+RV-KE6R3  | YLWSN53206 | 6S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 六聯 ON / OFF 電液控制 (12/24VDC)   | P. 24   |
| 8ED3+RV-KE7R3  | YLWSN53207 | 7S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 七聯 ON / OFF 電液控制 (12/24VDC)   | P. 24   |
| 8ED3+RV-KE8R3  | YLWSN53208 | 8S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 八聯 ON / OFF 電液控制 (12/24VDC)   | P. 24   |
| 8ED3+RV-KE9R3  | YLWSN53209 | 9S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 九聯 ON / OFF 電液控制 (12/24VDC)   | P. 24   |
| 8ED3+RV-KE10R3 | YLWSN53210 | 10S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 十聯 ON / OFF 電液控制 (12/24VDC)  | P. 24   |
| 8ED3+RV-KE11R3 | YLWSN53211 | 11S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 十一聯 ON / OFF 電液控制 (12/24VDC) | P. 24   |
| 8ED3+RV-KE12R3 | YLWSN53212 | 12S: ON/OFF Electro-Hydraulic control kit with pilot and drain line+backpressure valve (12/24 VDC) 十二聯 ON / OFF 電液控制 (12/24VDC) | P. 24   |
| 8ER3+KE1S0     | YLWSN53401 | 1S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>一聯 ON / OFF 電液控制, 需外接引導壓與回油         | P. 25   |
| 8ER3+KE2S0     | YLWSN53402 | 2S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>二聯 ON / OFF 電液控制, 需外接引導壓與回油         | P. 25   |
| 8ER3+KE3S0     | YLWSN53403 | 3S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>三聯 ON / OFF 電液控制, 需外接引導壓與回油         | P. 25   |
| 8ER3+KE4S0     | YLWSN53404 | 4S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>四聯 ON / OFF 電液控制, 需外接引導壓與回油         | P. 25   |
| 8ER3+KE5S0     | YLWSN53405 | 5S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>五聯 ON / OFF 電液控制, 需外接引導壓與回油         | P. 25   |

## SN-5 Sectional Directional Control Valves 片式控制閥

## B Side Spool Positioners B 側心軸定位器

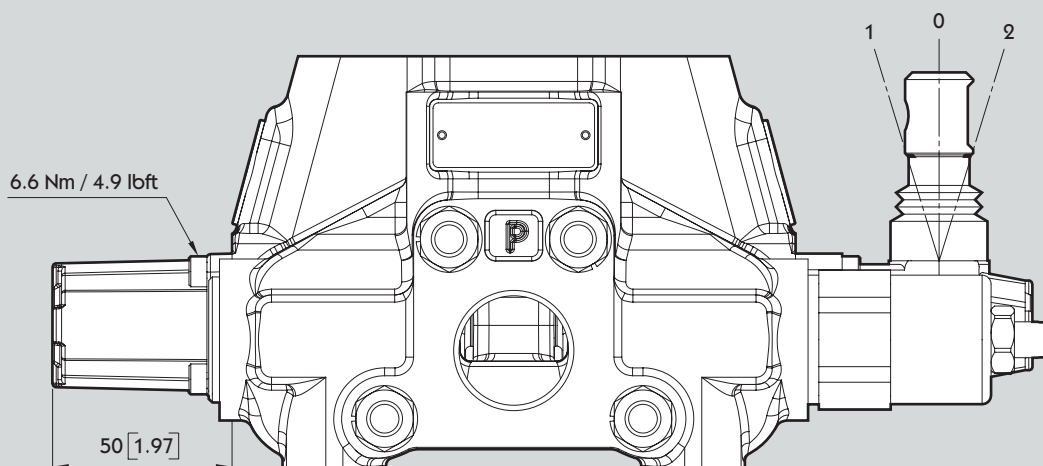
| Type 型式     | Code 編號     | Description 說明                                                                                                           | Page 頁數 |
|-------------|-------------|--------------------------------------------------------------------------------------------------------------------------|---------|
| 8ER3+KE6S0  | YLWSN53406  | 6S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>六聯 ON / OFF 電液控制，需外接引導壓與回油   | P. 25   |
| 8ER3+KE7S0  | YLWSN53407  | 7S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>七聯 ON / OFF 電液控制，需外接引導壓與回油   | P. 25   |
| 8ER3+KE8S0  | YLWSN53408  | 8S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>八聯 ON / OFF 電液控制，需外接引導壓與回油   | P. 25   |
| 8ER3+KE9S0  | YLWSN53409  | 9S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>九聯 ON / OFF 電液控制，需外接引導壓與回油   | P. 25   |
| 8ER3+KE10S0 | YLWSN53410  | 10S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>十聯 ON / OFF 電液控制，需外接引導壓與回油  | P. 25   |
| 8ER3+KE11S0 | YLWSN53411  | 11S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>十一聯 ON / OFF 電液控制，需外接引導壓與回油 | P. 25   |
| 8ER3+KE12S0 | YLWSN53412  | 12S: ON/OFF Electro-hydraulic control kit with collector kit for external pilot and drain<br>十二聯 ON / OFF 電液控制，需外接引導壓與回油 | P. 25   |
| 8MG1 (NO)   | YLWSN53801  | Microswitch kit operated in pos. 1 (Normally Open)<br>微動開關，作用位置 1 (常開)                                                   | P. 26   |
| 8MG2 (NO)   | YLWSN53802  | Microswitch kit operated in pos. 2 (Normally Open)<br>微動開關，作用位置 2 (常開)                                                   | P. 26   |
| 8MG3 (NO)   | YLWSN53803  | Microswitch kit operated in pos. 1 & 2 (Normally Open)<br>微動開關，作用位置 1 & 2 (常開)                                           | P. 26   |
| MG (NO)     | YLWSN53804  | Microswitch with NO terminal<br>微動開關 (常開)                                                                                | P. 26   |
| 8MG1 (NC)   | YLWSN538011 | Microswitch kit operated in pos. 1 (Normally Closed)<br>微動開關，作用位置 1 (常閉)                                                 | P. 26   |
| 8MG2 (NC)   | YLWSN538021 | Microswitch kit operated in pos. 2 (Normally Closed)<br>微動開關，作用位置 2 (常閉)                                                 | P. 26   |
| 8MG3 (NC)   | YLWSN538031 | Microswitch kit operated in pos. 1 & 2 (Normally Closed)<br>微動開關，作用位置 1 & 2 (常閉)                                         | P. 26   |
| MG (NC)     | YLWSN538041 | Microswitch with NC terminal<br>微動開關 (常閉)                                                                                | P. 26   |
| 8IM         | YLWSN530810 | Hydraulic pilot with single spring, exclusive for standard spool (Type 1 & 2)<br>液壓引導帶單邊彈簧復位，使用標準心軸 (一號、二號)              | P. 27   |
| 8IMM        | YLWSN530811 | Hydraulic pilot with dual spring, exclusive for specialized spool<br>液壓引導帶雙邊彈簧復位，使用專用心軸                                  | P. 27   |



## SN-5 Sectional Directional Control Valves 片式控制閥

Type 6 型式

Code 編號 : YLWSN53061-63

**6-1 Kit :**

DETENT IN POS. 1-0-2, WITHOUT  
SPRING CENTERED  
定位 1-0-2, 不帶彈簧復位

**6-2 Kit :**

2 POSITIONS, DETENT IN POS. 0-2,  
WITHOUT SPRING CENTERED  
定位 0-2, 不帶彈簧復位

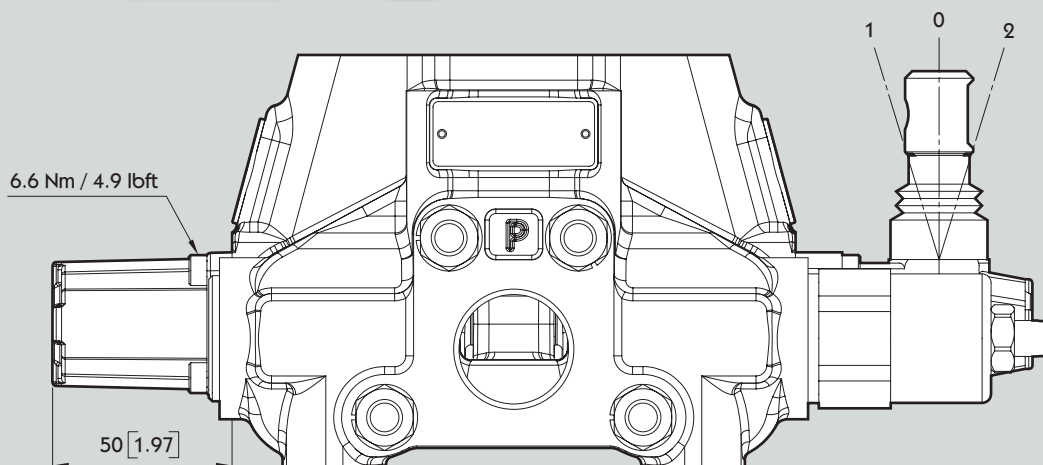
**6-3 Kit :**

2 POSITIONS, DETENT IN POS. 1-0,  
WITHOUT SPRING CENTERED  
定位 1-0, 不帶彈簧復位



Type 8 型式

Code 編號 : YLWSN53008 / 4081-82

**8 Kit :**

SPRING RETURN TO NEUTRAL  
POSITION  
彈簧復位

**8-1 Kit :**

SPRING RETURN TO NEUTRAL  
POSITION. ( 2 POSITIONS )  
彈簧復位 0 & 1 兩位置切換

**8-2 Kit :**

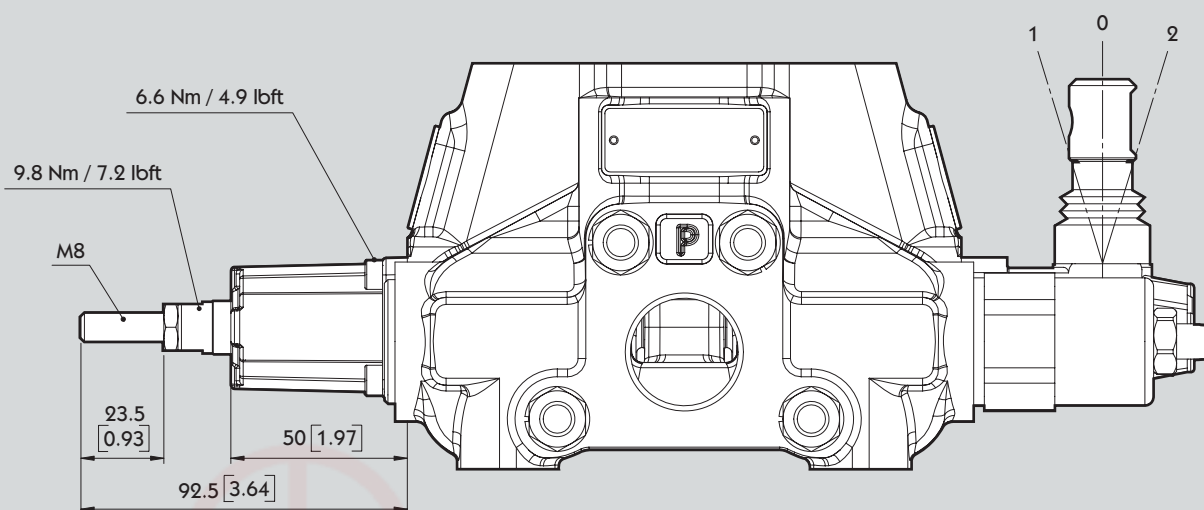
SPRING RETURN TO NEUTRAL  
POSITION. ( 2 POSITIONS )  
彈簧復位 0 & 2 兩位置切換



## SN-5 Sectional Directional Control Valves 片式控制閥

Type 8D2 型式

Code 編號 : YLWSN53082

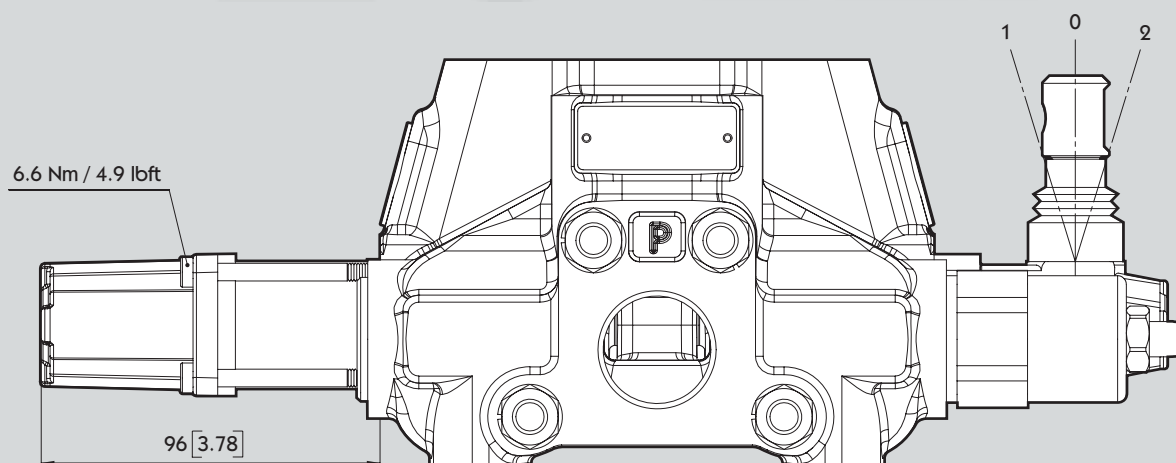
**8D2 Kit :**

WITH SPRING RETURN TO NEUTRAL POSITION AND PIN WITH  
M8 MALE THREAD FOR DUAL CONTROL  
彈簧復位，帶 M8 轉接螺紋



Type 9 型式

Code 編號 : YLWSN53091-93

**9-1 Kit :**

DETENT IN POS. 1, 2 WITH SPRING  
CENTERED  
定位 1 & 2，帶彈簧復位

**9-2 Kit :**

DETENT IN POS. 2 WITH SPRING  
CENTERED  
定位 2，帶彈簧復位

**9-3 Kit :**

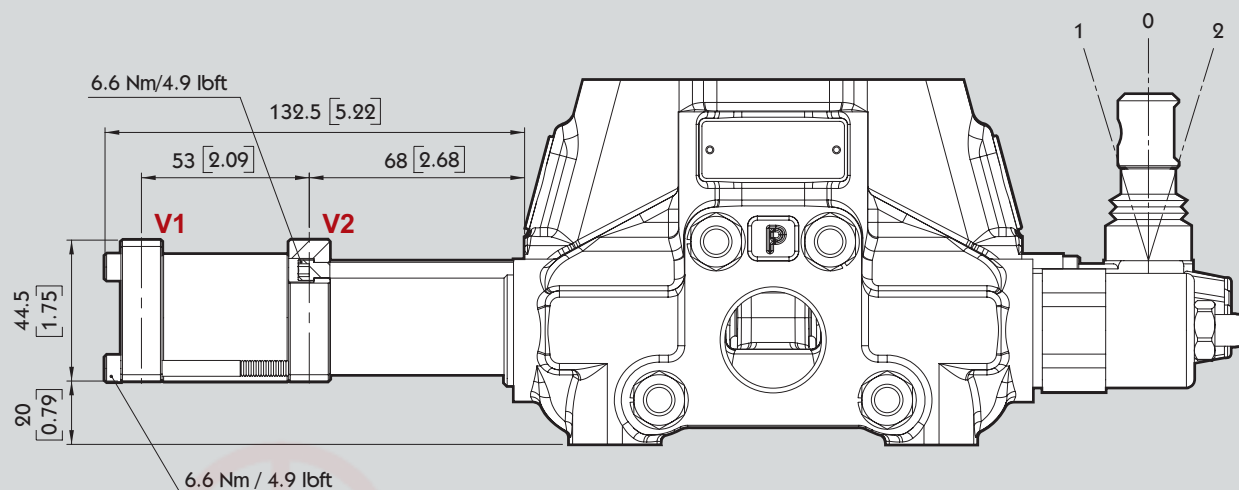
DETENT IN POS. 1 WITH SPRING  
CENTERED  
定位 1，帶彈簧復位



## SN-5 Sectional Directional Control Valves 片式控制閥

## Type 8P 型式

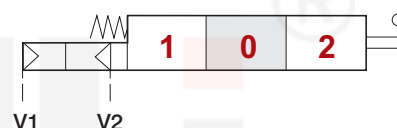
**Code 編號 : YLWSN53080**



**V1 & V2 : NPT 1/8 - 27**

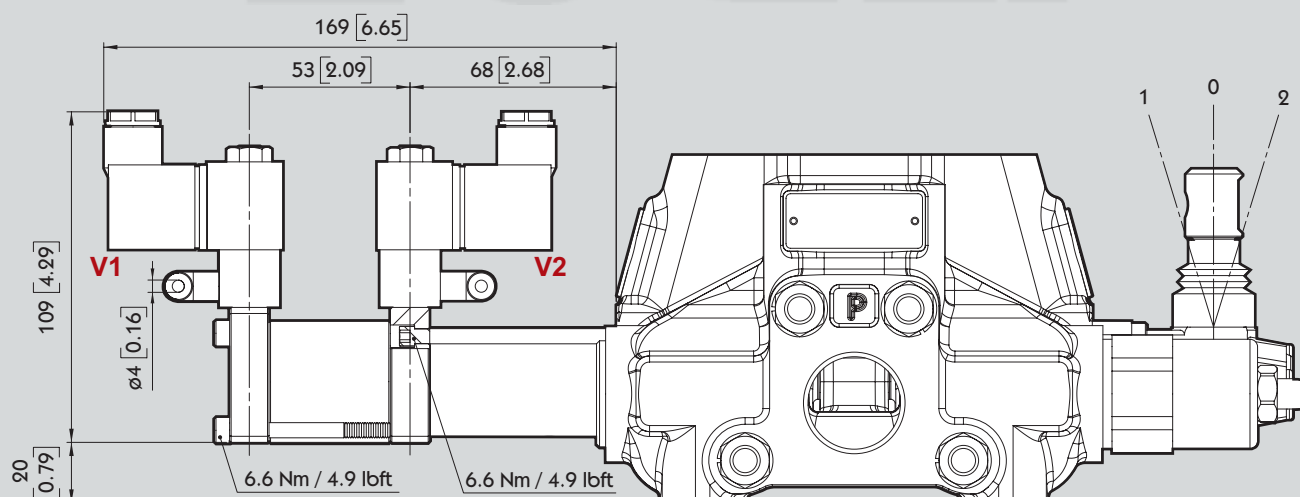
**Pilot pressure** : FROM 7 TO 10 BAR / 101 TO 145 PSI

引導壓力：7 - 10 BAR / 101 - 145 PSI



### Type 8EP3 型式

Code 編號 : YLWSN54300



### Solenoid Operating Features 線圈操作數據：

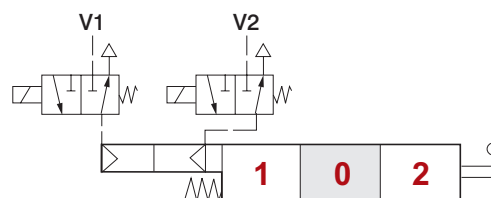
NOMINAL VOLTAGE 額定電壓：24VDC

NOMINAL VOLTAGE TOLERANCE 額定誤差值：±10%

POWER RATING 功率：5W

**Pilot Pressure** : FROM 7 TO 10 BAR / 101 TO 145 PSI

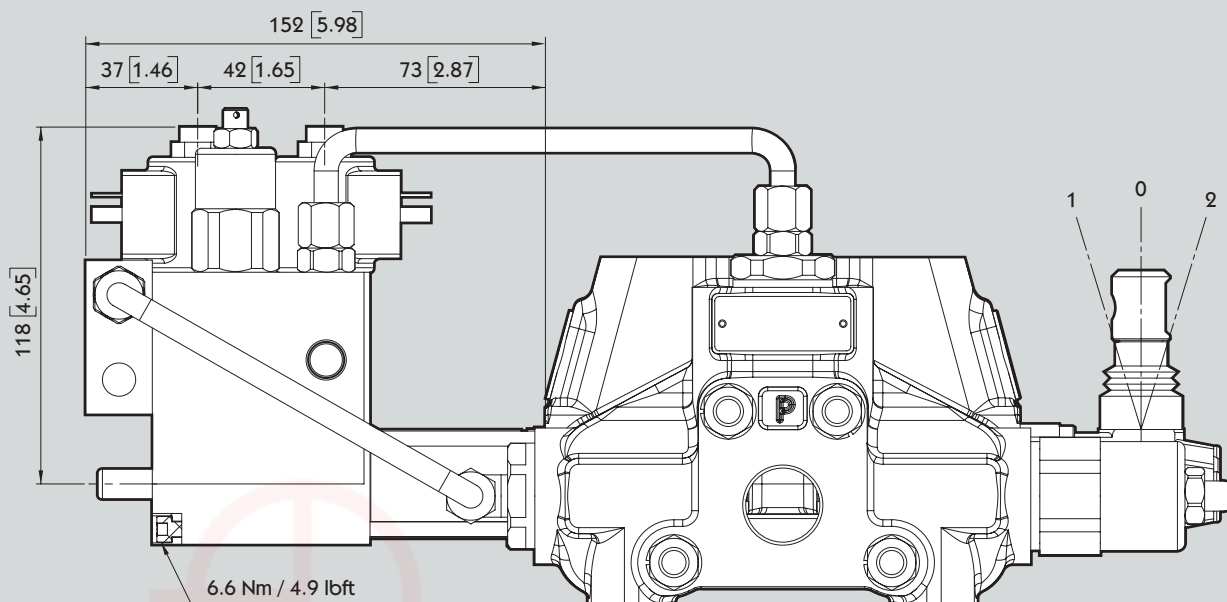
引導壓力：7 - 10 BAR / 101 - 145 PSI



## SN-5 Sectional Directional Control Valves 片式控制閥

Type 8ED3 型式

Code 編號 : YLWSN53201-12

**Operating Features 操作數據 :**

PILOT PRESSURE 引導壓 :

- MIN. 最小 : 10 BAR / 145 PSI
- MAX. 最大 : 50 BAR / 725 PSI

MAX. BACKPRESSURE ON DRAIN L

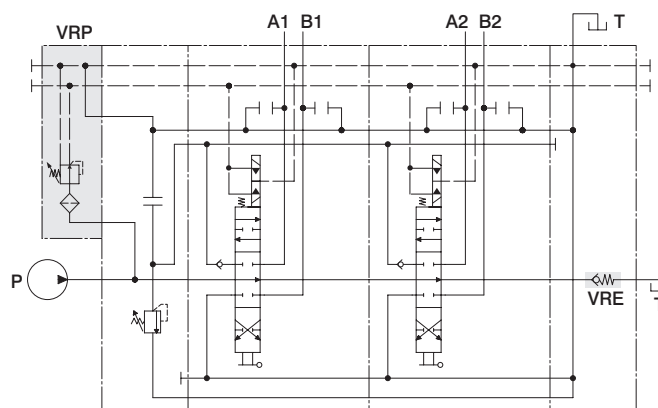
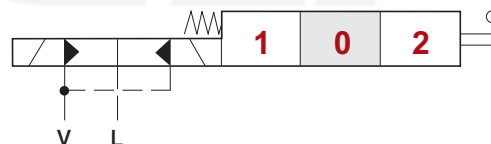
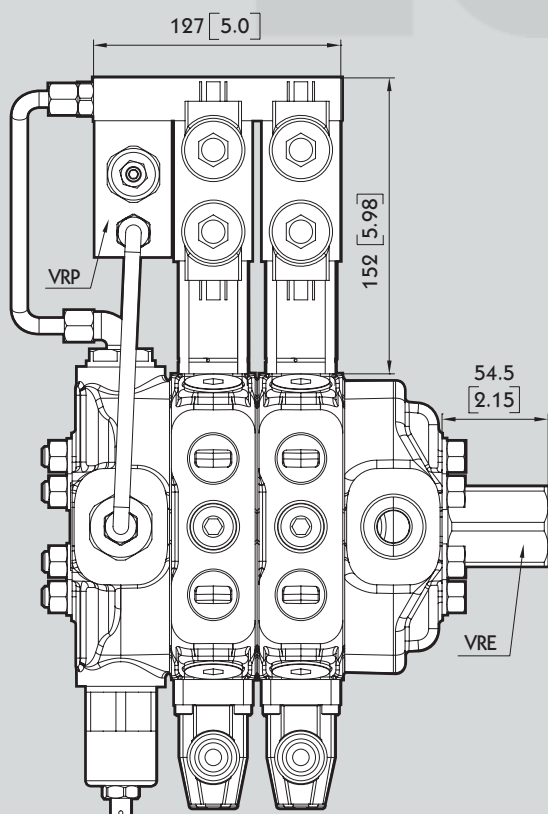
L 最大回油背壓 : 25 BAR / 360 PSI

**Solenoid Operating Features 線圈操作數據 :**

NOMINAL VOLTAGE 額定電壓 : 12 VDC / 24 VDC

POWER RATING 功率 : 21 W

DUTY CYCLE 工作週期 : 100 %

**VRP Valve Operating Features VRP 減壓閥操作數據 :**

OUTLET PRESSURE 出口壓力 : 25 BAR / 363 PSI

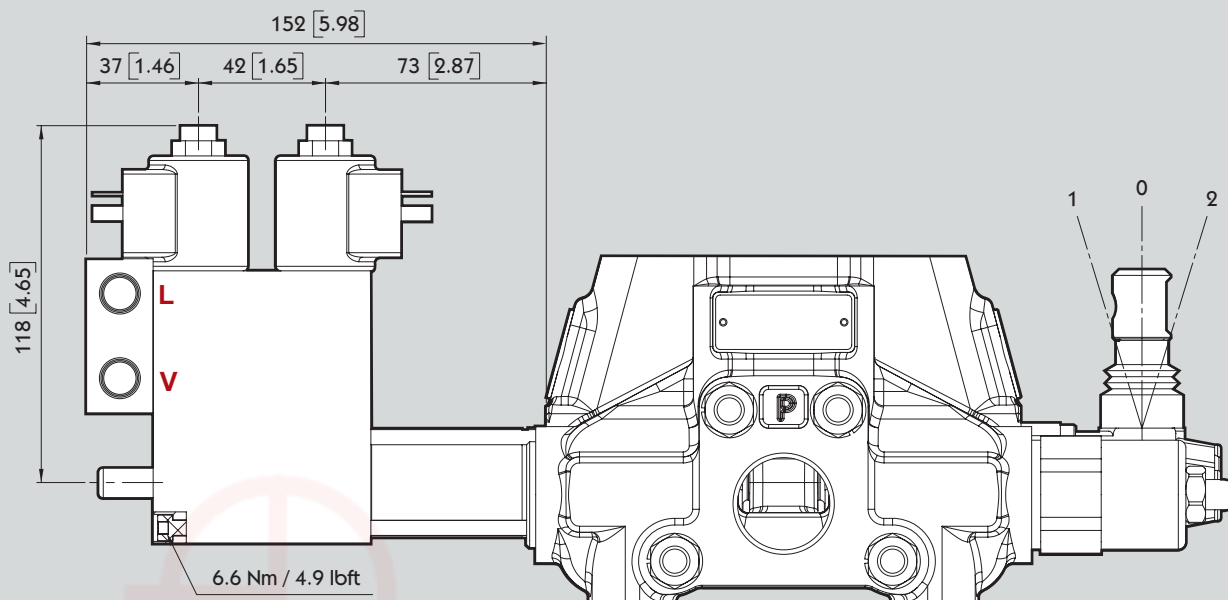
MAX. FLOW 最大流量 : 8 L/MIN / 2.1 US GPM

FILTERING 過濾 : 80  $\mu$

## SN-5 Sectional Directional Control Valves 片式控制閥

Type 8ER3 型式

Code 編號 : YLWSN53401-12

**Operating Features 操作數據 :**

PILOT PRESSURE 引導壓 :

- MIN. 最小 : 10 BAR / 145 PSI
- MAX. 最大 : 50 BAR / 725 PSI

MAX. BACKPRESSURE ON DRAIN L

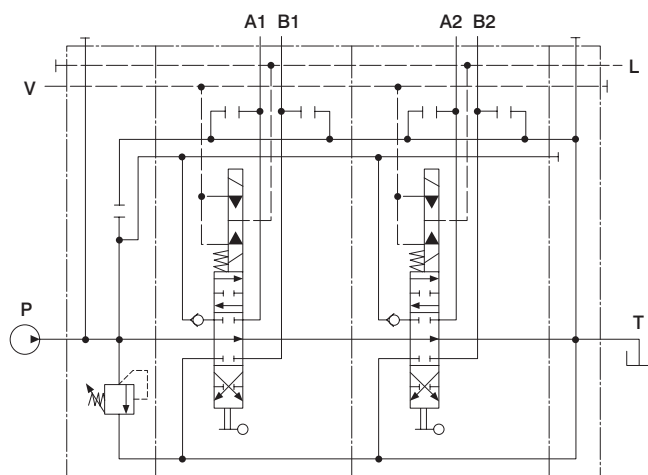
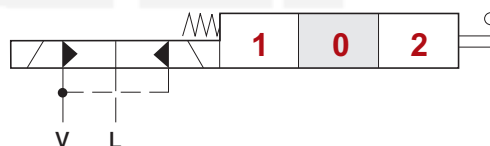
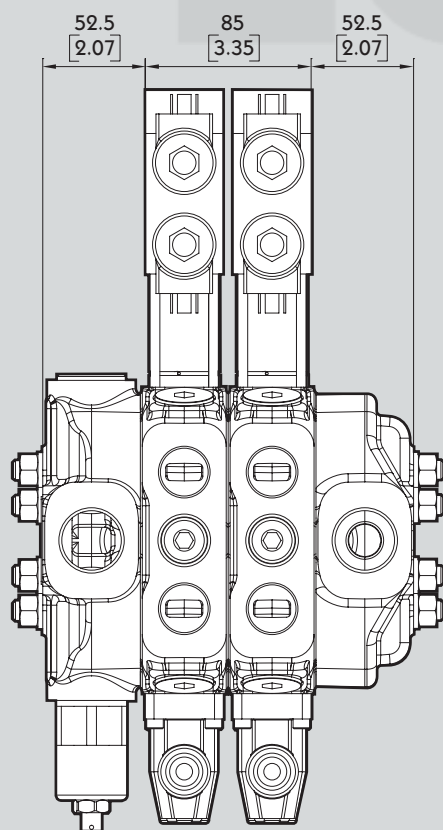
L 最大回油背壓 : 25 BAR / 360 PSI

**Solenoid Operating Features 線圈操作數據 :**

NOMINAL VOLTAGE 額定電壓 : 12 VDC / 24 VDC

POWER RATING 功率 : 21 W

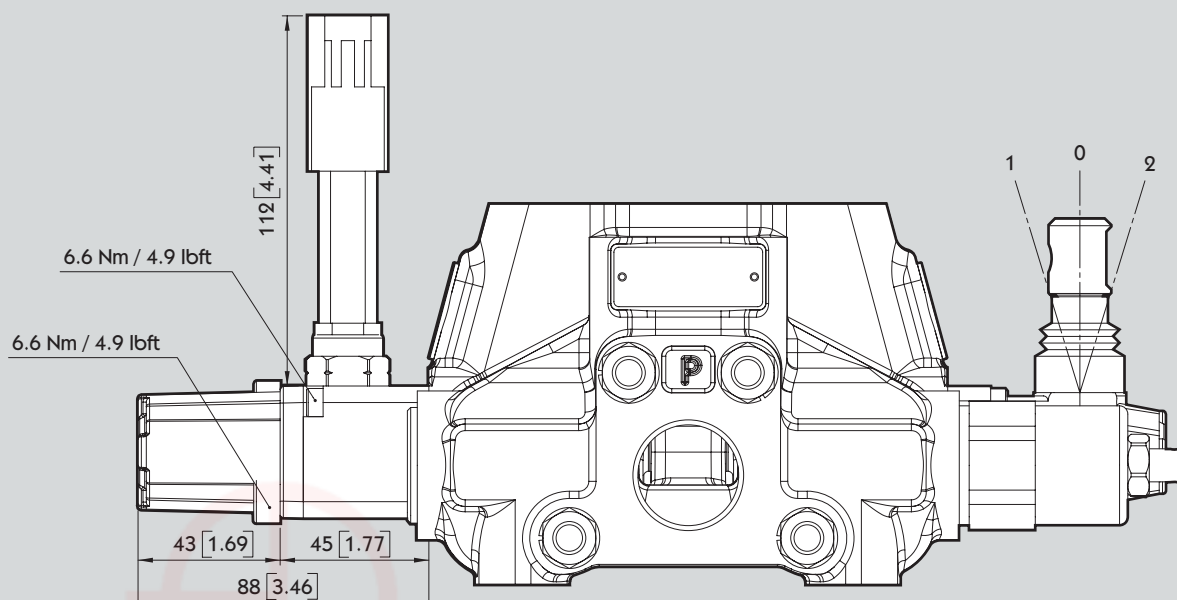
DUTY CYCLE 工作週期 : 100 %





## SN-5 Sectional Directional Control Valves 片式控制閥

## Type 8MG 型式

**MICROSWITCH****Operating Features 操作數據：**

MECHANICAL LIFE 機構壽命：

- 5 X 10<sup>5</sup> OPERATIONS 500000 作動

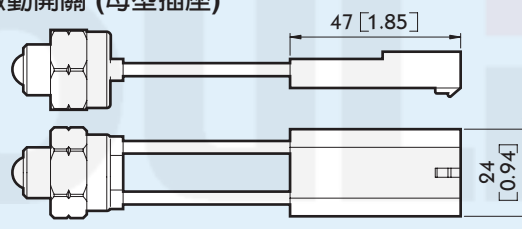
ELECTRICAL LIFE (RESISTIVE LOAD)

電控壽命：

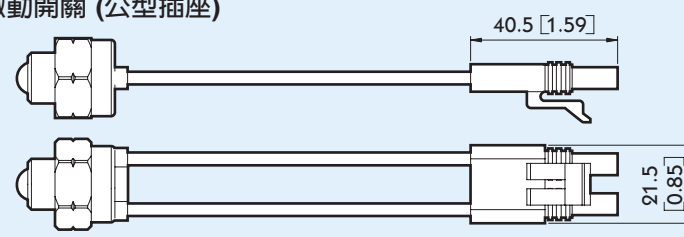
- 10<sup>5</sup> OPERATIONS 500000 作動  
- 7A / 13.5 VDC
- 5 X 10<sup>4</sup> OPERATIONS 50000 作動  
- 10A / 12 VDC
- 5 X 10<sup>4</sup> OPERATIONS 50000 作動  
- 3A / 28 VDC

**With NO Contact (Female Connector with Male End)**

常開型微動開關 (母型插座)

**With NC Contact (Male Connector with Female End)**

常閉型微動開關 (公型插座)

**8MG1 Kit :**

MICROSWITCH WITH MALE / FEMALE CONNECTOR, OPERATED IN POS. 1  
微動開關，作用位置 1

**8MG2 Kit :**

MICROSWITCH WITH MALE / FEMALE CONNECTOR, OPERATED IN POS. 2  
微動開關，作用位置 2

**8MG3 Kit :**

MICROSWITCH WITH MALE / FEMALE CONNECTOR, OPERATED IN POS. 1 AND POS. 2 微動開關，作用位置 1 & 2

Code 編號 : YLWSN53801 (NO)

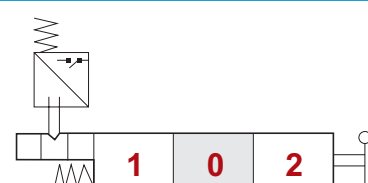
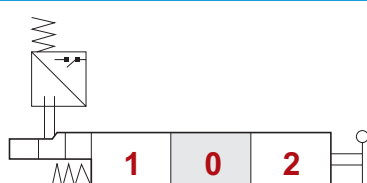
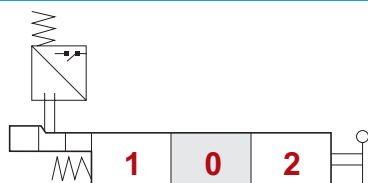
Code 編號 : YLWSN53802 (NO)

Code 編號 : YLWSN53803 (NO)

Code 編號 : YLWSN538011 (NC)

Code 編號 : YLWSN538021 (NC)

Code 編號 : YLWSN538031 (NC)



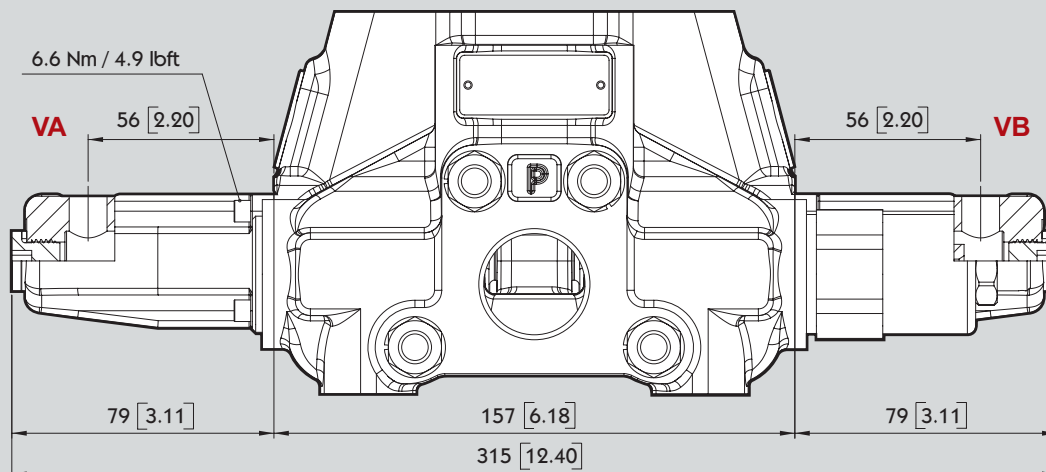
## SN-5 Sectional Directional Control Valves 片式控制閥

Type 8IM 型式

Code 編號 : YLWSN530810

Type 8IMM 型式

Code 編號 : YLWSN530811



## Operating Features

## 操作數據 :

PILOT PRESSURE 引導壓力

MAX. 最大 : 50 BAR / 730 PSI

HYDRAULIC PILOT, OPERATED WITH STANDARD SPOOL

液壓引導驅動, 8IM 使用標準心軸。

## HYDRAULIC PILOT PORTS 油壓引導口

BSP

G 1/4

UN-UNF

9/16-18  
UNF-2B  
(SAE 6)

## Operating Features

## 操作數據 :

PILOT PRESSURE 引導壓力

MAX. 最大 : 50 BAR / 730 PSI

HYDRAULIC PILOT, OPERATED WITH SPECIALIZED SPOOL.

液壓引導驅動, 8IMM 使用專用心軸。

## HYDRAULIC PILOT PORTS 油壓引導口

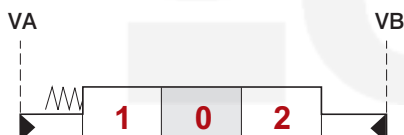
BSP

G 1/4

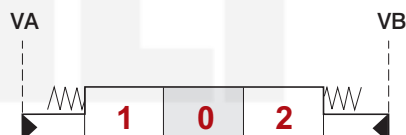
UN-UNF

9/16-18  
UNF-2B  
(SAE 6)

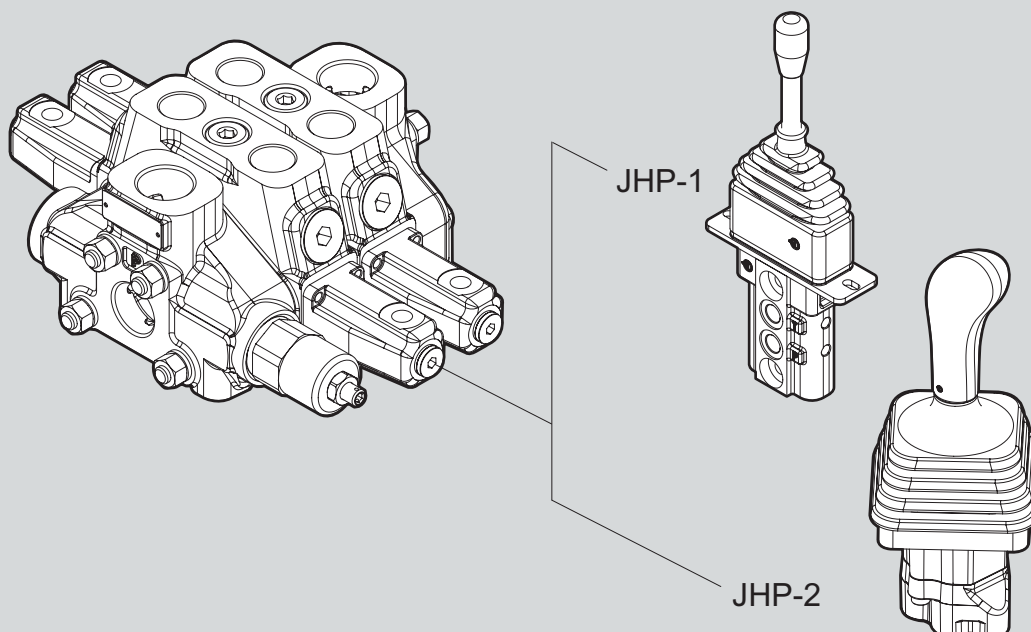
8IM



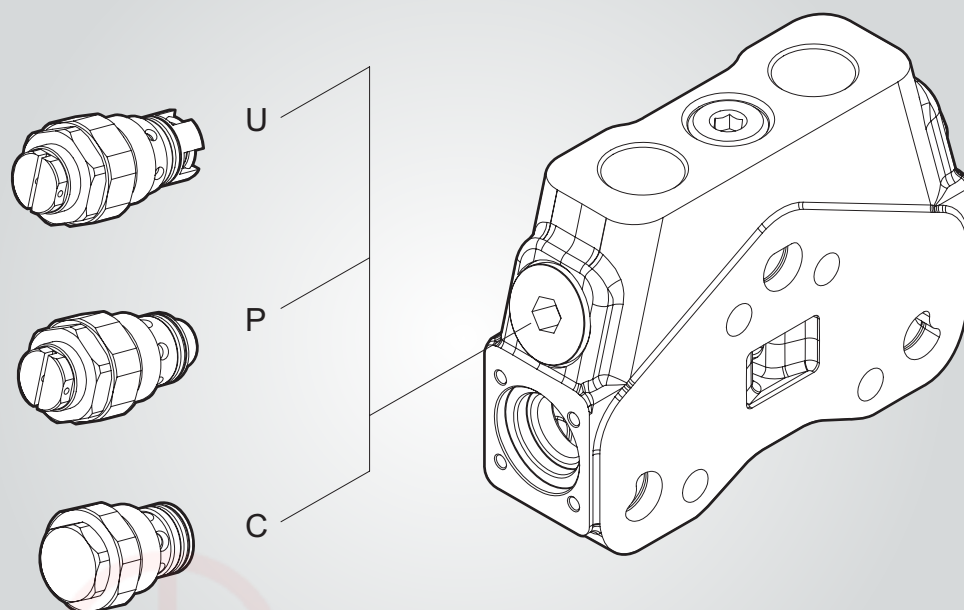
8IMM



## Type 8IM 配件



## SN-5 Sectional Directional Control Valves 片式控制閥



### Port Relief (optional) P □ (選配)

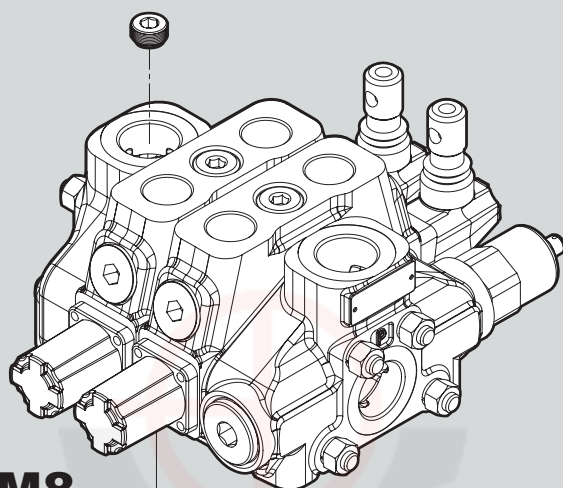
| Type 型式    | Code 編號    | Description 說明                                                                                                                                                                              | Page 頁數 |
|------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| C          | YLWSN55100 | Anti - cavitation valve. 補油閥                                                                                                                                                                | P. 28   |
| P (G2-63)  | YLWSN55002 | Anti-shock valve, range 63 to 125 bar / form 900 to 1800 psi standard setting 63 bar / 900 psi.<br>溢流閥，工作範圍 63~125 bar / 900~1800 psi，標準設定 63 bar / 900 psi.                                | P. 28   |
| P (G3-100) | YLWSN55003 | Anti-shock valve, range 100 to 250 bar / form 1450 to 3600 psi standard setting 100bar / 1450 psi.<br>溢流閥，工作範圍 100~250 bar / 1450~3600 psi，標準設定 100 bar / 1450 psi.                         | P. 28   |
| P (G4-200) | YLWSN55004 | Anti-shock valve, range 200 to 315 bar / form 2900 to 4600 psi standard setting 200 bar / 2900 psi.<br>溢流閥，工作範圍 200~315 bar / 2900~4600 psi，標準設定 200 bar / 2900 psi.                        | P. 28   |
| U (G2-63)  | YLWSN55012 | Anti-shock valve and Anti-cavitation valve, range 63 to 125 bar / form 900 to 1800 psi standard setting 63 bar / 900 psi. 緩衝閥，工作範圍 63-125 bar / 900-1800 psi，標準設定 63 bar / 900 psi.         | P. 28   |
| U (G3-100) | YLWSN55013 | Anti-shock valve and Anti-cavitation valve, range 100 to 250 bar / form 1450 to 3600 psi standard setting 100 bar / 1450 psi. 緩衝閥，工作範圍 100-250 bar / 1450-3600 psi，標準設定 100 bar / 1450 psi. | P. 28   |
| U (G4-200) | YLWSN55014 | Anti-shock valve and Anti-cavitation valve, range 200 to 315 bar / form 2900 to 4600 psi standard setting 200 bar / 2900 psi. 緩衝閥，工作範圍 200-315 bar / 2900-4600 psi，標準設定 200bar / 2900 psi.  | P. 28   |

| Type C Anti-Cavitation Valve 補油閥 | Type P Anti-Shock Valve 溢流閥                           | Type U Anti-shock valve andy anti-cavitation valve 緩衝閥 |
|----------------------------------|-------------------------------------------------------|--------------------------------------------------------|
| Code 編號 : YLWSN55100             | Code 編號 : YLWSN55002-04                               | Code 編號 : YLWSN55012-14                                |
|                                  |                                                       |                                                        |
|                                  | <p>G2: 63-125 bar G3: 100-250 bar G4: 200-315 bar</p> | <p>G2: 63-125 bar G3: 100-250 bar G4: 200-315 bar</p>  |

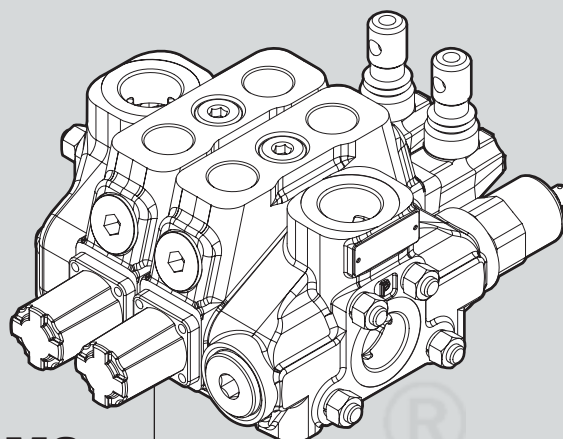
## SN-5 Sectional Directional Control Valves 片式控制閥

### Power Beyond Conversion Plug (Closed Center Plug)

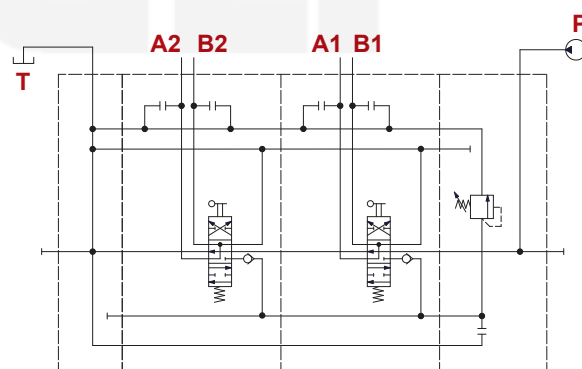
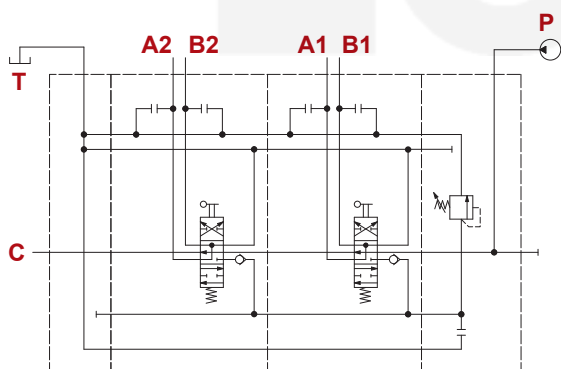
使用二次壓，需加裝特殊塞頭



**M8**



**M3**



## SN-5 Sectional Directional Control Valves 片式控制閥





## SN-5 Sectional Directional Control Valves 片式控制閥



## SN-5 Sectional Directional Control Valves 片式控制閥



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