



MB-1 SERIES

YOULI HYDRAULIC

MONOBLOCK DIRECTIONAL CONTROL VALVES

塊式控制閥

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
YOULI HYDRAULIC INDUSTRIAL CO.,LTD.

MB-1 Monoblock Directional Control Valves 塊式控制閥

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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) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 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) Parallel circuit	工作壓力(最大) 並聯迴路	250 bar	3600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 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) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 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) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 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) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 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) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 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) Parallel circuit	工作壓力(最大) 並聯迴路	250 bar	3620 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 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 8 可使用聯數：1~8

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

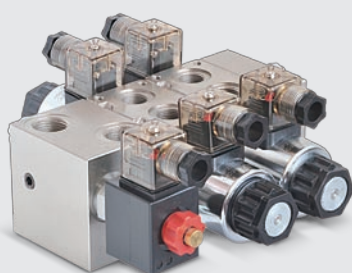


MSB-5

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) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 出油口 T	25 bar	360 psi

Sectional Directional Control Valves 片式控制閥



SE-4

Available sections from 1 to 10 可使用聯數：1~10

Nominal flow rate	額定流量	60 l/min	15.8 US gpm
Operating pressure (Maximum) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 出油口 T	25 bar	360 psi

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) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 出口口 T	25 bar	360 psi

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) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 出口口 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) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 出口口 T	25 bar	360 psi

SN-6



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

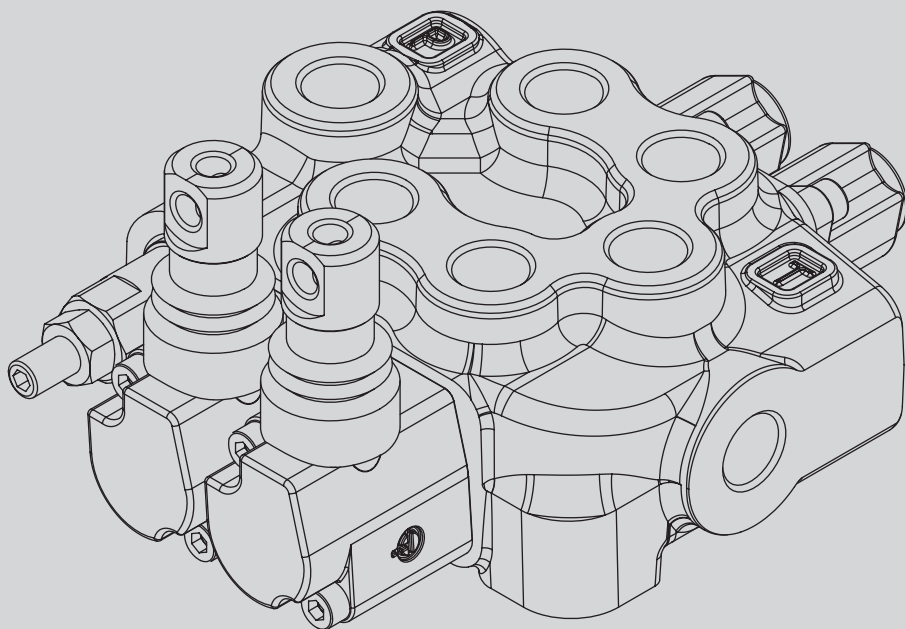
Nominal flow rate	額定流量	160 l/min	42 US gpm
Operating pressure (Maximum) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 出口口 T	25 bar	360 psi

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) Parallel circuit	工作壓力(最大) 並聯迴路	315 bar	4600 psi
Back pressure (Maximum) on outlet port T	背壓(最大) 出口口 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

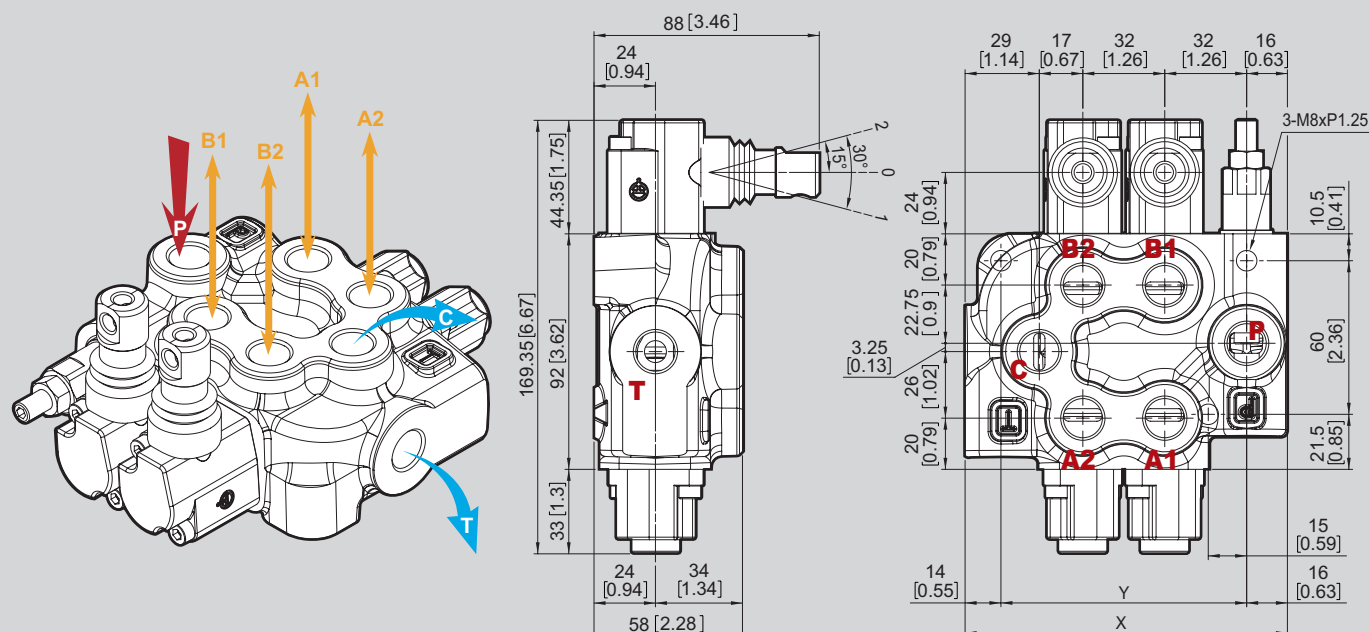
1 TO 6

MB-1

Monoblock Directional Control Valves 塊式控制閥



MB-1 Monoblock Directional Control Valves 塊式控制閥



Specifications 規格

Nominal flow 額定流量		25 L/min	6.6 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 ² /s ~ 75 mm ² /s	15 ~ 75 cst
	Min. 最小	12 mm ² /s	12 cst
	Max. 最大	400 mm ² /s	400 cst
Ambient temperature range 環境溫度範圍		- 20 °C ~ 50 °C	- 40 °F ~ 122 °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	G3/8	G1/4	G3/8
UN-UNF	9/16-18 UNF-2B (SAE 6)		
METRIC	M18 x 1.5	M14 x 1.5	M18 x 1.5

Standard Dimensions 標準尺寸

TYPE 聯數	X		Y		TYPE 聯數	X		Y	
	mm	in	mm	in		mm	in	mm	in
MB1 /1S 一聯	94	3.70	64	2.52	MB1 /4S 四聯	190	7.48	160	6.30
MB1 /2S 二聯	126	4.96	96	3.78	MB1 /5S 五聯	222	8.74	192	7.56
MB1 /3S 三聯	158	6.22	128	5.04	MB1 /6S 六聯	254	10.00	224	8.82

Performance Curve Chart 性能曲線圖

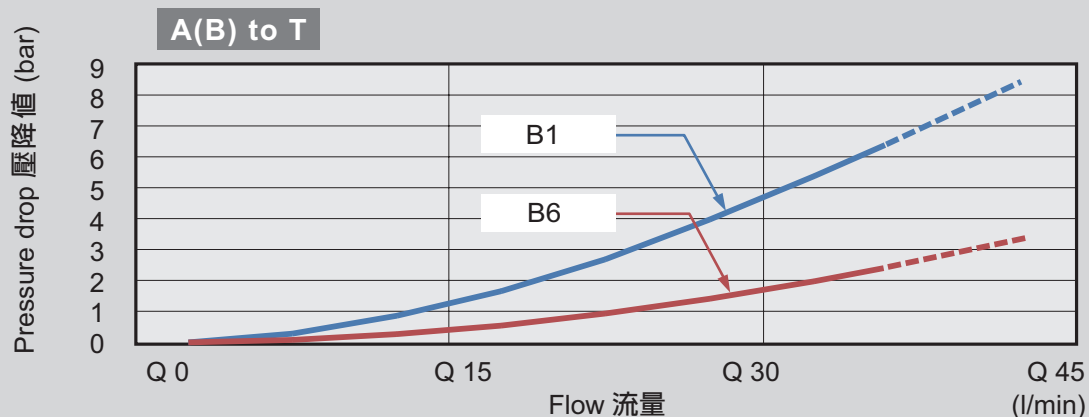
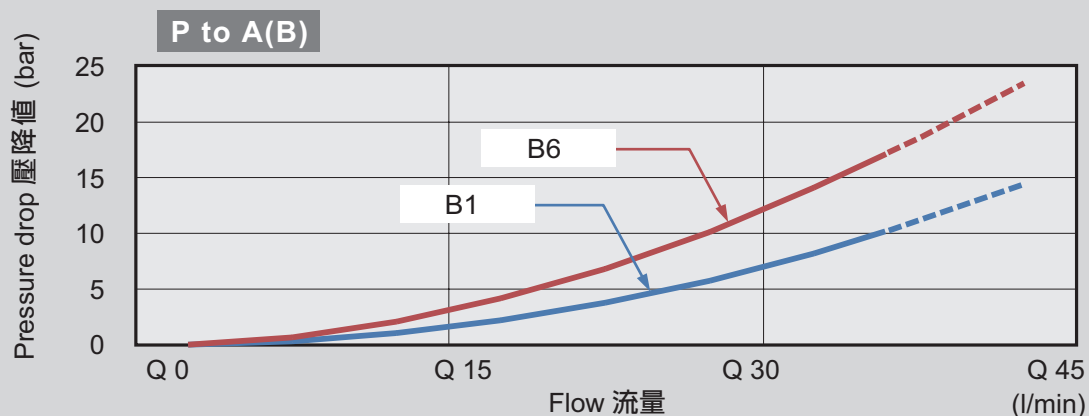
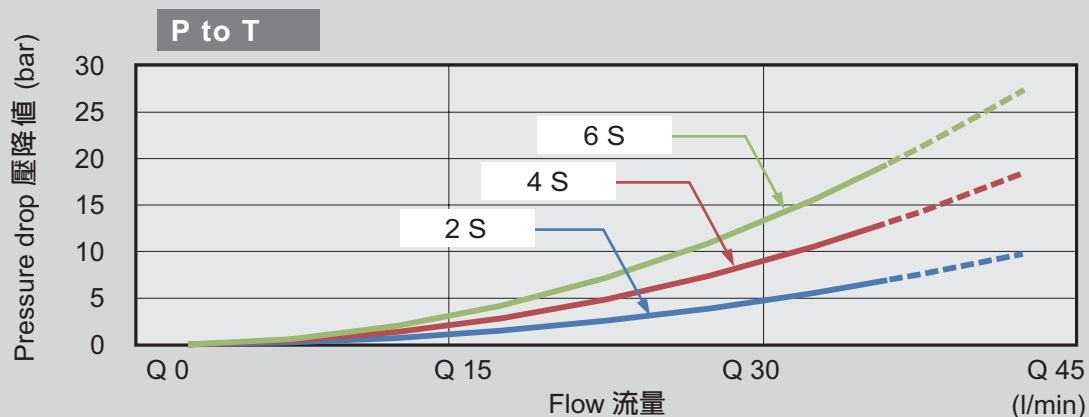
MB-1 Monoblock Directional Control Valves 塊式控制閥

High loading with simple design, can be used for open and closed center of hydraulic system, from 1-6 sections are available.

高負載且簡潔的塊式閥設計，提供1到6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.
- 2 Supply a wide type of threads ports and circuit valves.
- 3 Supply a lot of functions such as Manual, Pneumatic, Pilot hydraulic, and electro actuators. Remote cable joystick operation kits.
- 4 Diameter 14 mm (0.55 in) and interchangeable spools.
- 5 Optional power beyond conversion plug.

- 1 可使用溢流閥及配有止回閥機構。
- 2 可提供多種類的牙口及迴路之閥體。
- 3 可提供手控、氣控、液控、電液控及遠端纜線控制套件。
- 4 直徑14 mm (0.55 in) 可更換的心軸。
- 5 可提供二次壓迴路配件。



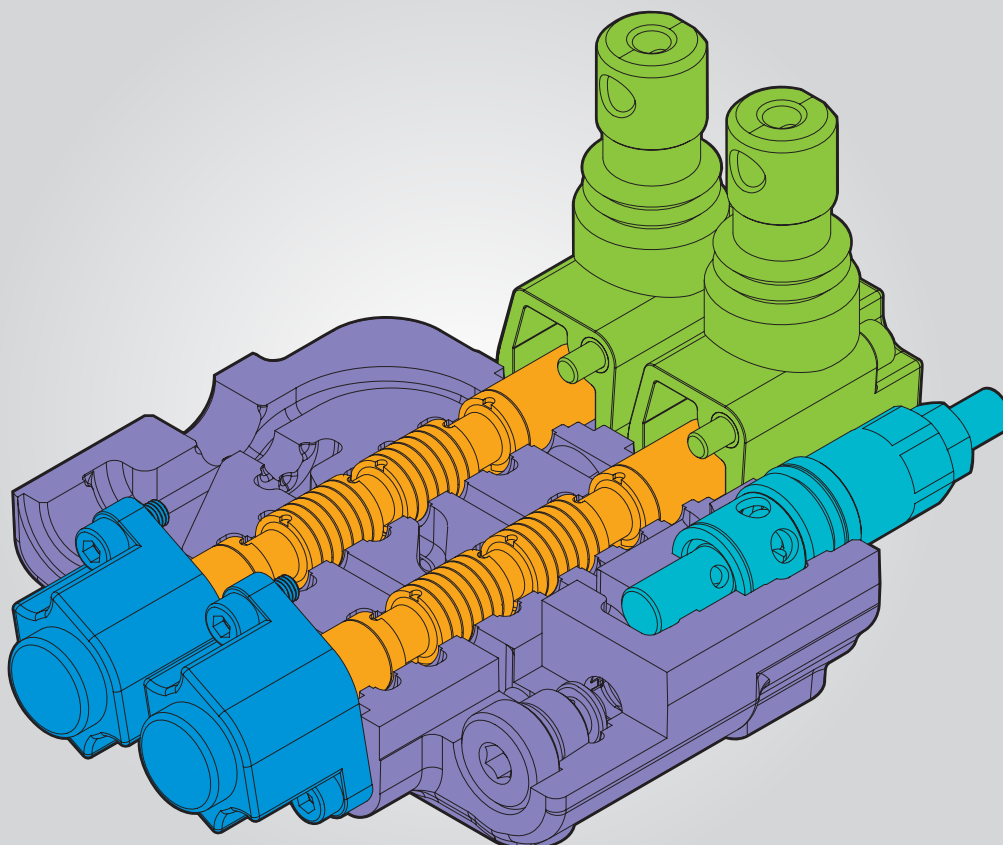
MB-1 Monoblock Directional Control Valves 塊式控制閥

HOW TO ORDER FOR A COMPLETE ASSEMBLED VALVE

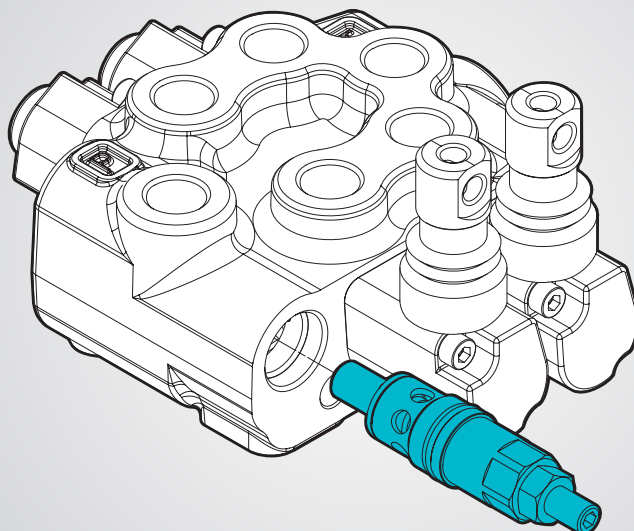
訂購範例/說明：

MB-1 / 2S - 3 / 1 7 L / G3-2-3 - M3

2S	No. of working section	聯數
3	Inlet cover with a main pressure relief valve	溢流閥設定
1	Spool options	心軸選型
7	"B" side spool positioners (optional)	B 側選型
L	"A" side (optional)	A 側選型
G3-2-3	BSP ports: G3 (P)-2 (W)-3 (T)	螺紋規格
M3	Outlet cover	迴路 / 二次壓需求



MB-1 Monoblock Directional Control Valves 塊式控制閥

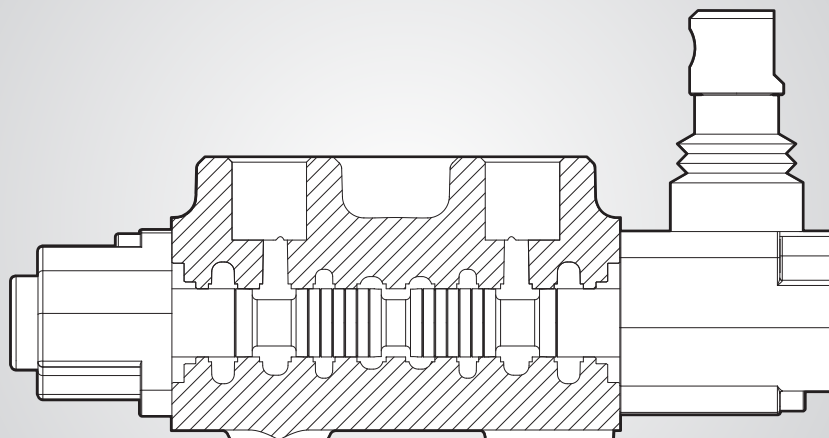


Inlet Relief (optional) 溢流閥 (選配)

Type 型式	Code 編號	Description 說明	Page 頁數
EG-2	YLMB12002	Direct pressure relief valve, range 63 to 125 bar / 900 to 1800 psi, standard setting 80 bar / 1150 psi. 直動式溢流閥，工作範圍 63~125 bar / 900~1800 psi，標準設定 80 bar / 1150 psi	P. 10
EG-3	YLMB12003	Direct pressure relief valve, range 100 to 200 bar/1450 to 2900 psi, standard setting 175 bar/ 2500 psi. 直動式溢流閥，工作範圍 100~200 bar/ 1450~2900 psi，標準設定 175 bar/ 2500 psi	P. 10
EG-4	YLMB12004	Direct pressure relief valve, range 160 to 250 bar / 2300 to 3600 psi, standard setting 250 bar / 3600 psi. 直動式溢流閥，工作範圍 160~250 bar / 2300~3600 psi，標準設定 250 bar / 3600 psi	P. 10
SV	YLMB14000	Relief valve blanking plug. 塞頭 / 不使用溢流閥	P. 10

Type EG 型式	Code 編號 : YLMB12002-4	Pilot operated pressure relief valve: 直動式溢流閥
Type SV 型式	Code 編號 : YLMB14000	Relief valve blanking plug: 塞頭

MB-1 Monoblock Directional Control Valves 塊式控制閥

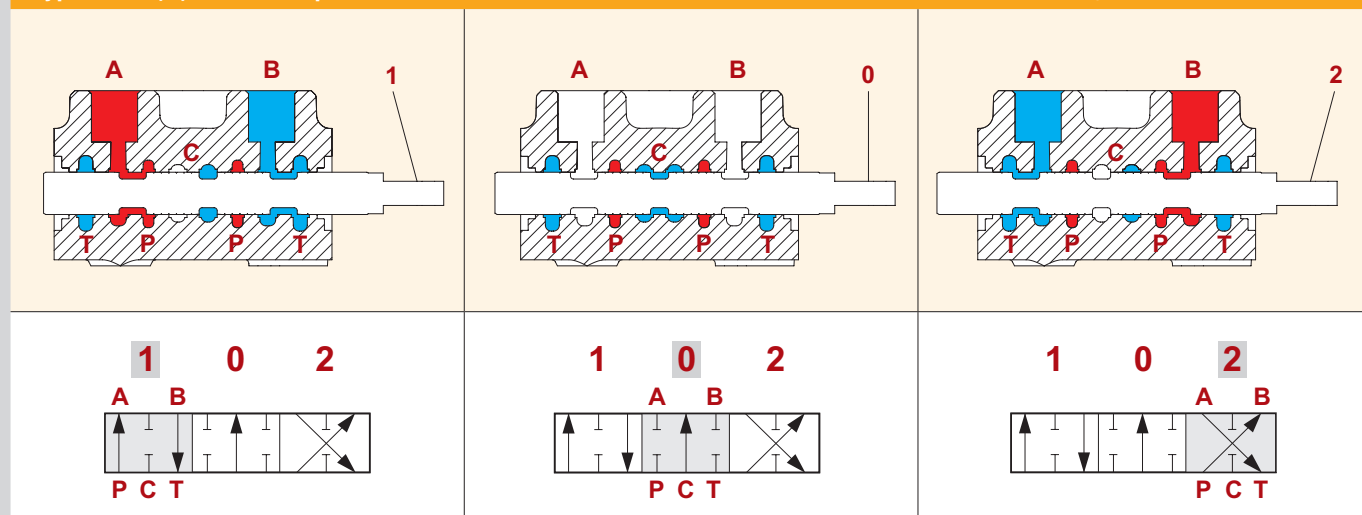


Spool Options 心軸選項

Type 型式	Code 編號	Description 說明	Page 頁數
1	YLMB13001	Double acting, 3 positions, with A and B closed in neutral position. 雙工作口 / 3 位置切換 / 中立位置 AB 口阻斷	P. 11
2	YLMB13002	Double acting, 3 positions, with A and B open to tank in neutral position. 雙工作口 / 3 位置切換 / 中立位置 AB 口通回油	P. 12
3	YLMB13003	Single acting on A closed in neutral position, 3 positions, B plugged. 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. 12
4	YLMB13004	Single acting on B closed in neutral position, 3 positions, A plugged. 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. 12

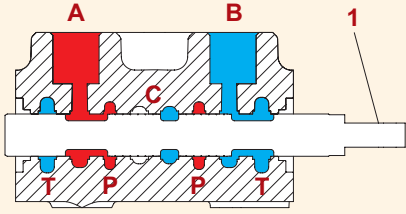
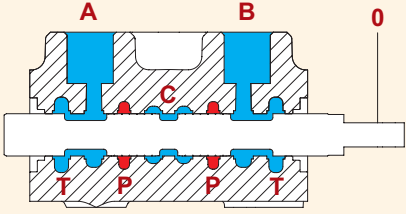
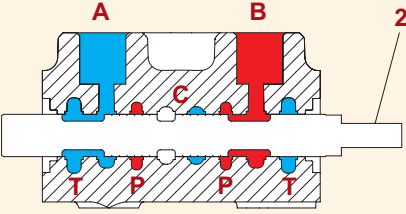
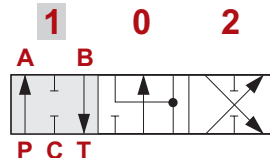
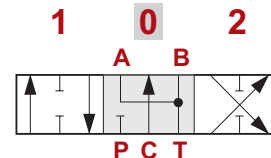
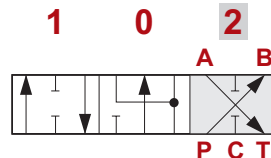
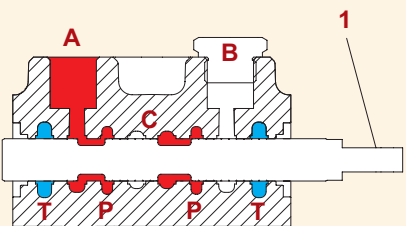
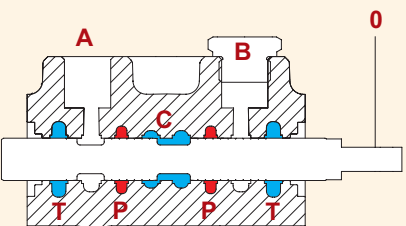
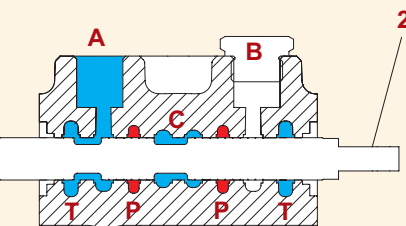
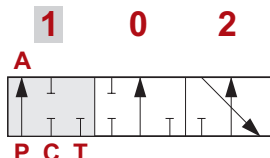
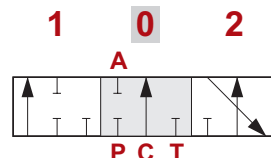
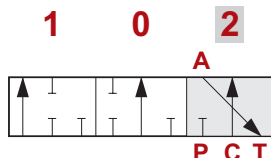
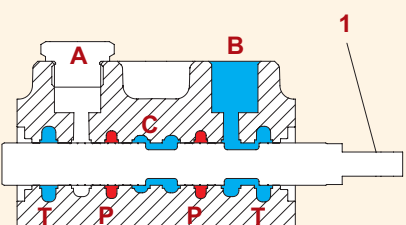
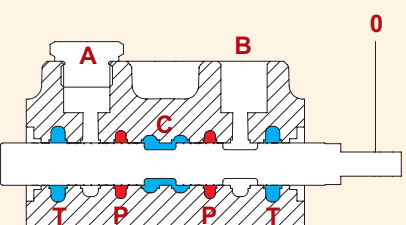
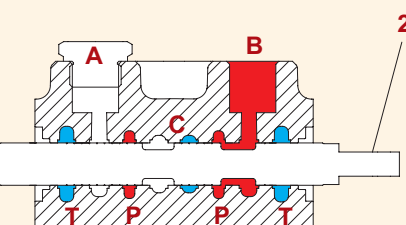
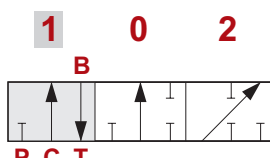
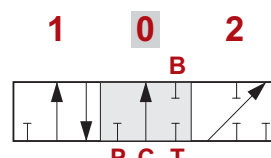
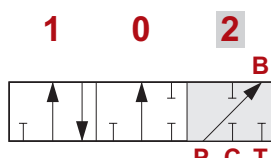
Type 型式 (1) Description 描述 :

Code 編號 : YLMB13001



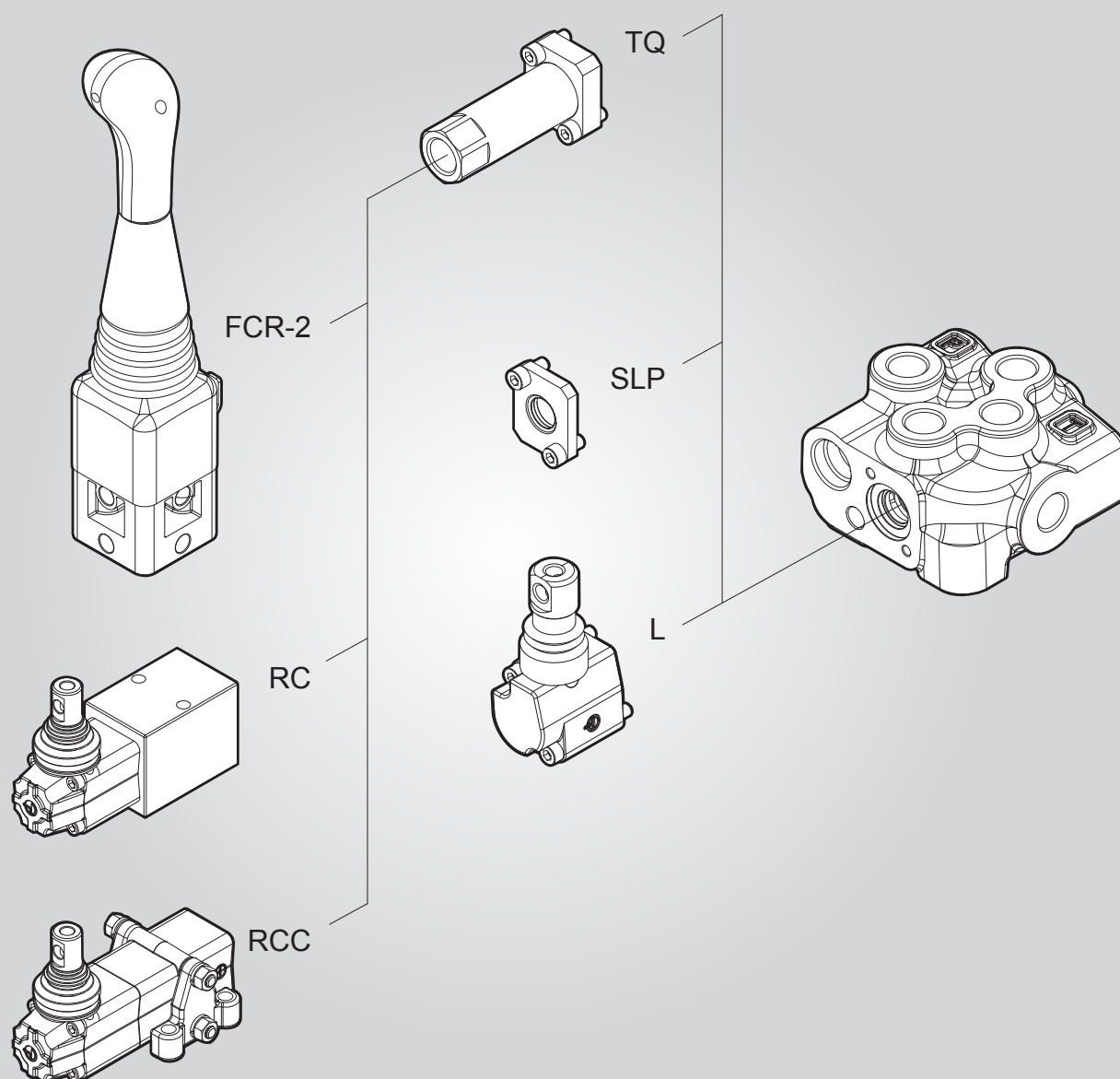
Outlet 出油 Inlet 入油

MB-1 Monoblock Directional Control Valves 塊式控制閥

Type 型式 (2) Description 描述 :		Code 編號 : YLMB13002
  		
  		
Type 型式 (3) Description 描述 : "B" PORT PLUGGED "B" 孔無作動		Code 編號 : YLMB13003
  		
  		
Type 型式 (4) Description 描述 : "A" PORT PLUGGED "A" 孔無作動		Code 編號 : YLMB13003
  		
  		

■ Outlet 出油 ■ Inlet 入油

MB-1 Monoblock Directional Control Valves 塊式控制閥



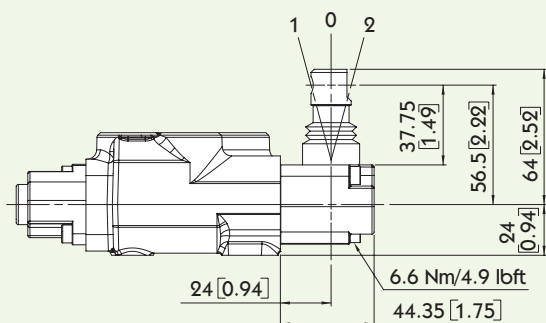
A Side A 側

Type 型式	Code 編號	Description 說明	Page 頁數
L	YLMB15000	Standard lever 標準手柄控制配件	P. 14
SLP	YLMB15001	Without lever, with dust proof plate 防塵蓋控制配件	P. 14
TQ	YLMB15003	Flexible cable connection 纜線控制配件	P. 14

MB-1 Monoblock Directional Control Valves 塊式控制閥

Type L 型式

Code 編號 : YLMB15000

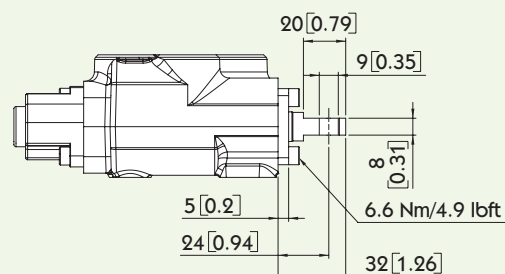


Standart Lever Kit 標準手柄控制配件 :



Type SLP 型式

Code 編號 : YLMB15001



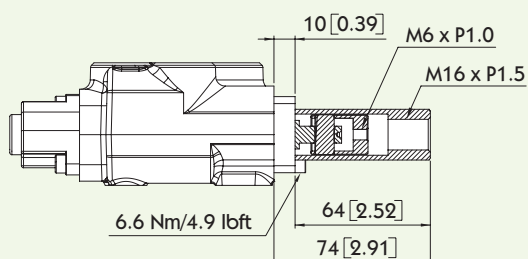
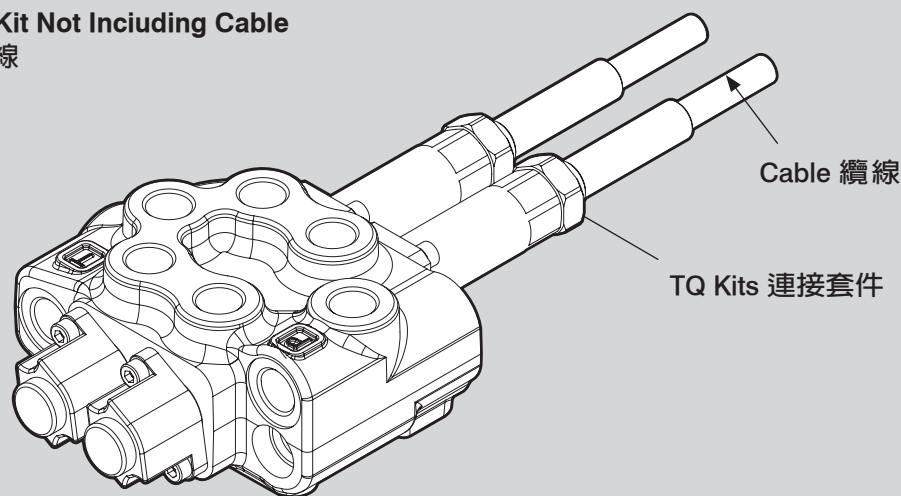
With Dust-Proof Plate 防塵蓋控制配件 :



Type TQ 型式

Code 編號 : YLMB15003

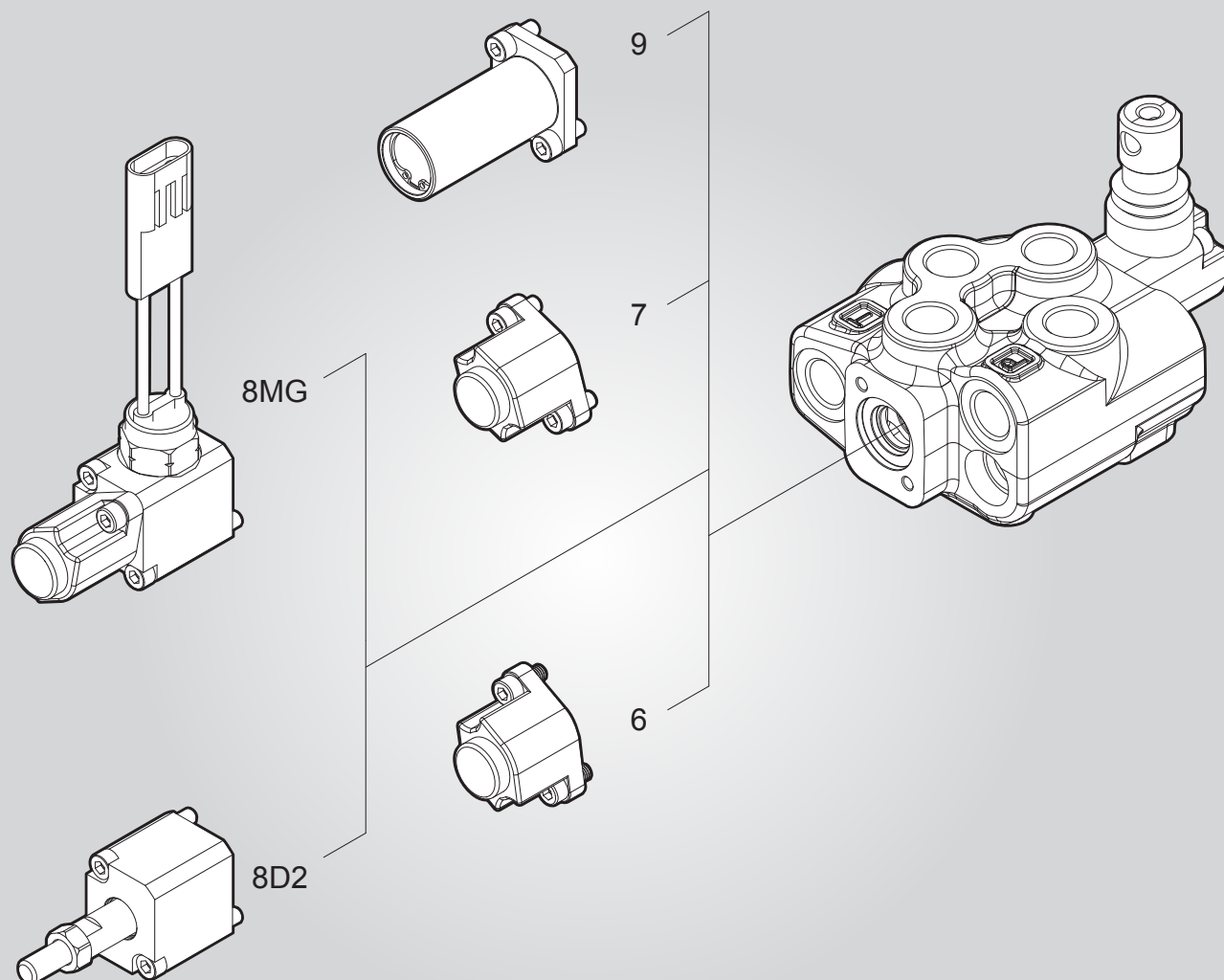
Note : Connection Kit Not Including Cable
 連接套件不包括纜線



TQ Kit :

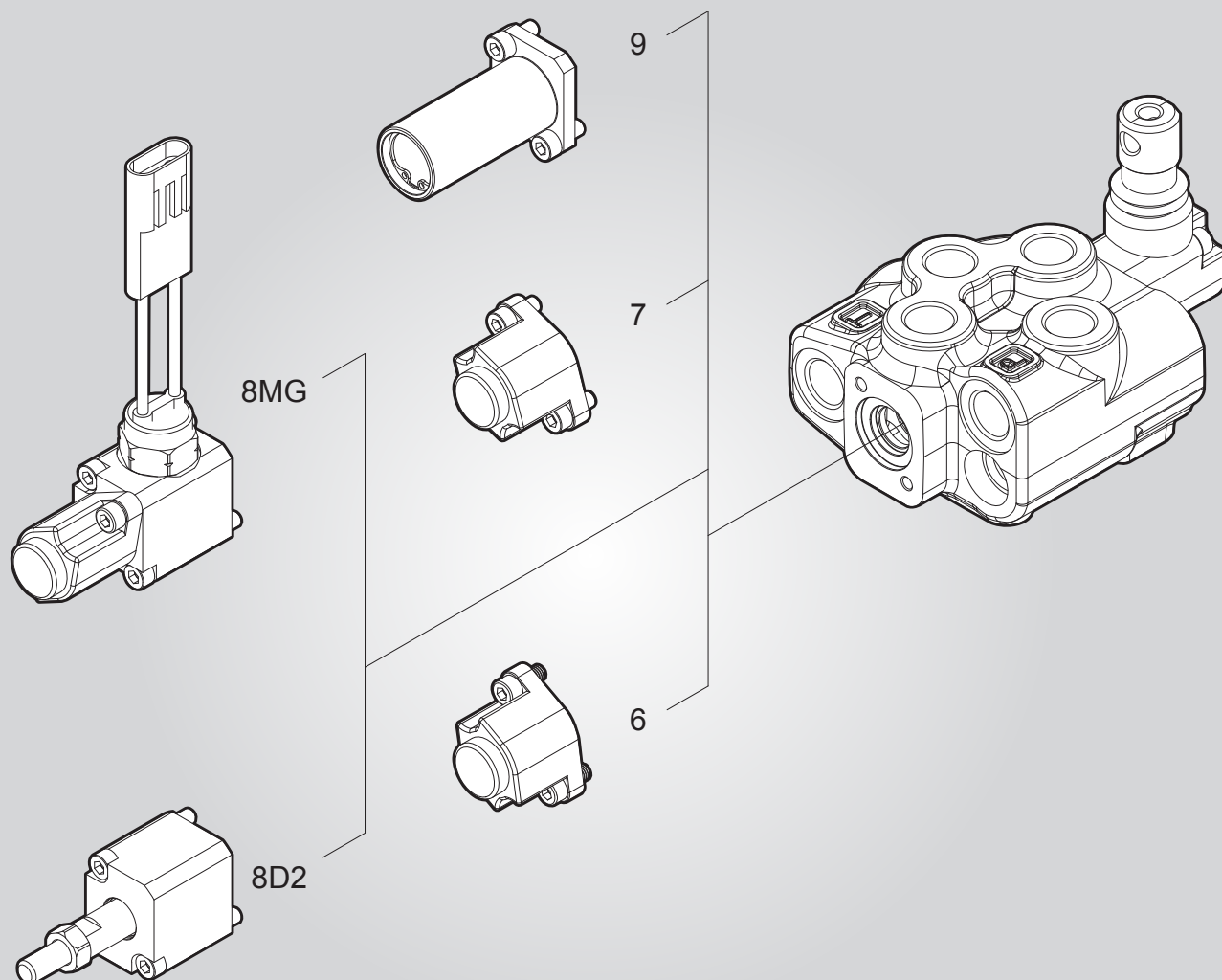


MB-1 Monoblock Directional Control Valves 塊式控制閥

**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	YLMB14061	Detent in pos. 1-0-2, without spring centered. 定位 1-0-2，不帶彈簧復位	P. 17
6-2	YLMB14062	2 positions, detent in pos. 0-2, without spring centered. 定位 0-2，不帶彈簧復位	P. 17
6-3	YLMB14063	2 positions, detent in pos. 1-0, without spring centered. 定位 1-0，不帶彈簧復位	P. 17
7	YLMB14007	With spring return to neutral position. 彈簧復位	P. 17
8D2	YLMB14082	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	P. 18
9-1	YLMB14091	Detent in pos. 1, 2 with spring centered. 定位 1-2，帶彈簧復位	P. 18
9-2	YLMB14092	Detent in pos. 2 with spring centered. 定位 2，帶彈簧復位	P. 18
9-3	YLMB14093	Detent in pos. 1 with spring centered. 定位 1，帶彈簧復位	P. 18

MB-1 Monoblock Directional Control Valves 塊式控制閥

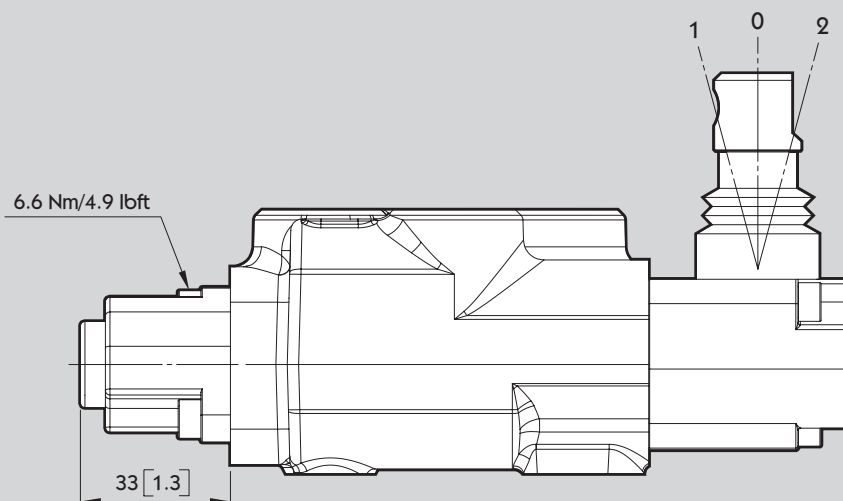
**B Side Spool Positioners B 側心軸定位器**

Type 型式	Code 編號	Description 說明	Page 頁數
8MG1 (NO)	YLMB14801	Microswitch kit operated in pos. 1 (Normally Open) 微動開關，作用位置 1 (常開)	P. 19
8MG2 (NO)	YLMB14802	Microswitch kit operated in pos. 2 (Normally Open) 微動開關，作用位置 2 (常開)	P. 19
8MG3 (NO)	YLMB14803	Microswitch kit operated in pos. 1 & 2 (Normally Open) 微動開關，作用位置 1 & 2 (常開)	P. 19
MG (NO)	YLMB14804	Microswitch with NO terminal 微動開關 (常開)	P. 19
8MG1 (NC)	YLMB148011	Microswitch kit operated in pos. 1 (Normally Closed) 微動開關，作用位置 1 (常閉)	P. 19
8MG2 (NC)	YLMB148021	Microswitch kit operated in pos. 2 (Normally Closed) 微動開關，作用位置 2 (常閉)	P. 19
8MG3 (NC)	YLMB148031	Microswitch kit operated in pos. 1 & 2 (Normally Closed) 微動開關，作用位置 1 & 2 (常閉)	P. 19
MG (NC)	YLMB148041	Microswitch with NC terminal. 微動開關 (常閉)	P. 19

MB-1 Monoblock Directional Control Valves 塊式控制閥

Type 6 型式

Code 編號 : YLMB14061-4063

**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

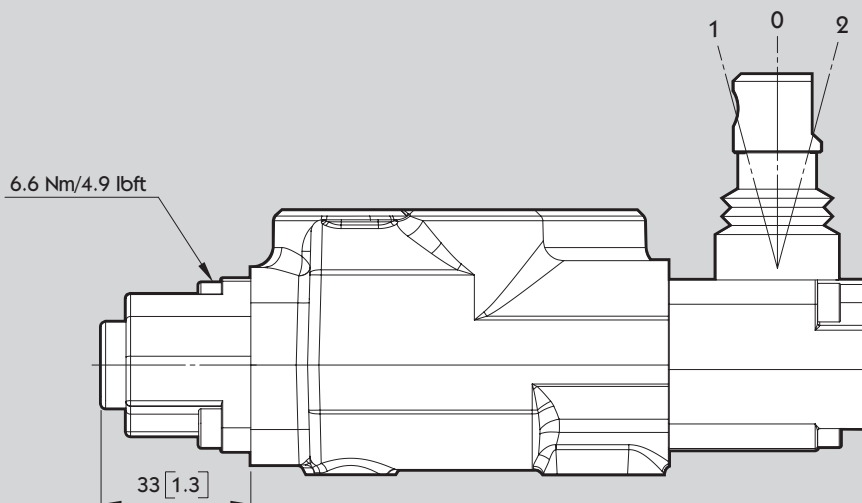
**6-3 Kit :**

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



Type 7 型式

Code 編號 : YLMB14007

**7 Kit :**

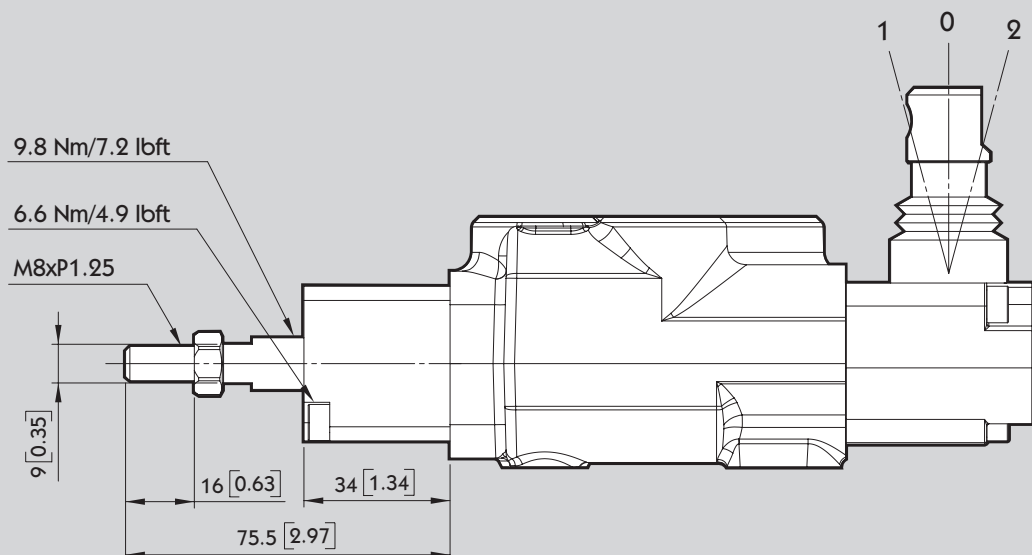
SPRING RETURN TO NEUTRAL POSITION
彈簧復位



MB-1 Monoblock Directional Control Valves 塊式控制閥

Type 8D2 型式

Code 編號 : YLMB14082



8D2 Kit :

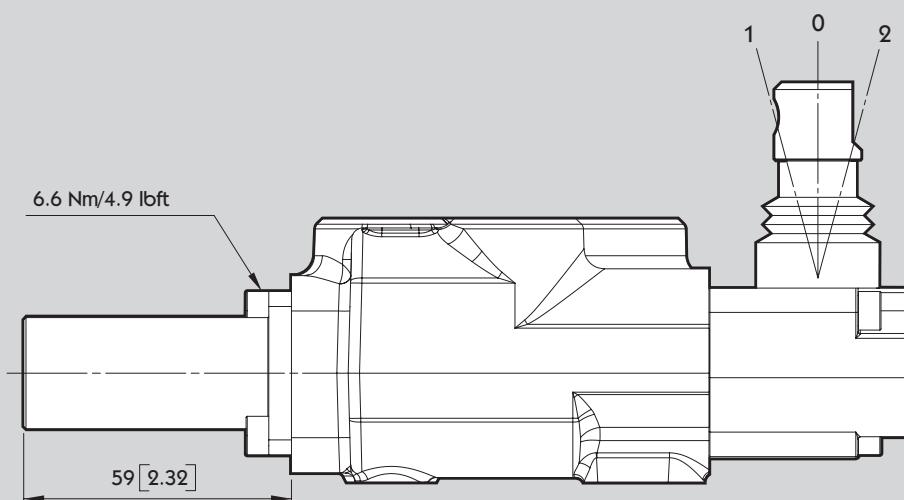
WITH SPRING RETURN TO NEUTRAL POSITION AND PIN WITH M8 MALE THREAD FOR DUAL CONTROL

彈簧復位，帶 M8 轉接螺紋



Type 9 型式

Code 編號 : YLMB14091-4093



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 :

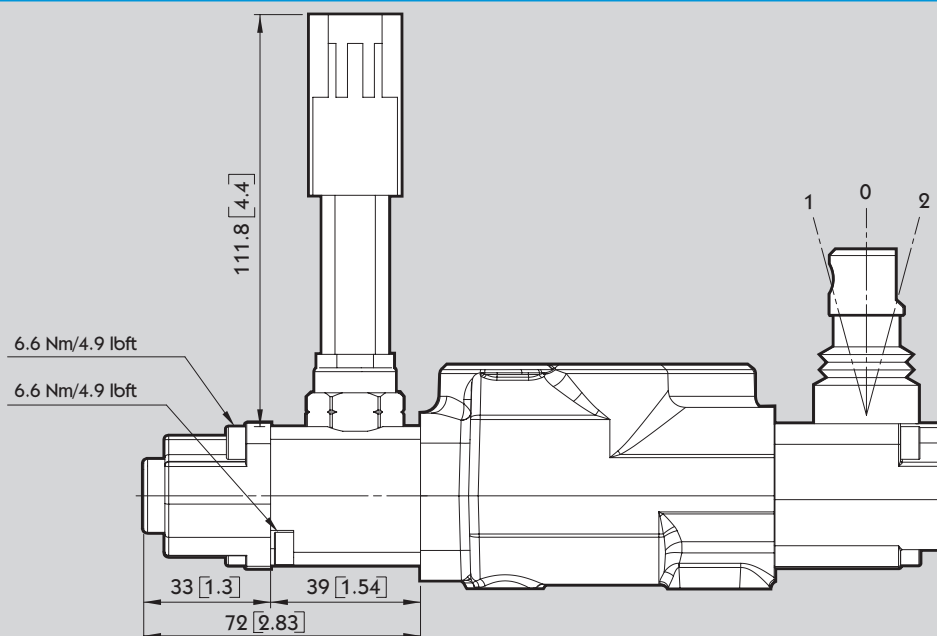
DETENT IN POS. 1 WITH SPRING CENTERED

定位 1，帶彈簧復位



MB-1 Monoblock Directional Control Valves 塊式控制閥

Type 8MG 型式

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

MECHANICAL LIFE 機構壽命：

- 5 X 10⁵ OPERATIONS 500000 作動

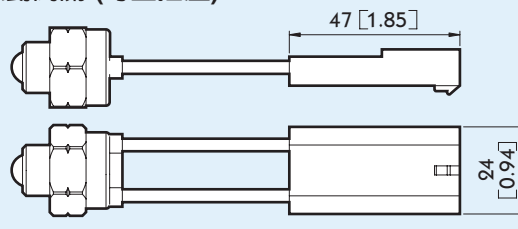
ELECTRICAL LIFE (RESISTIVE LOAD)

電控壽命：

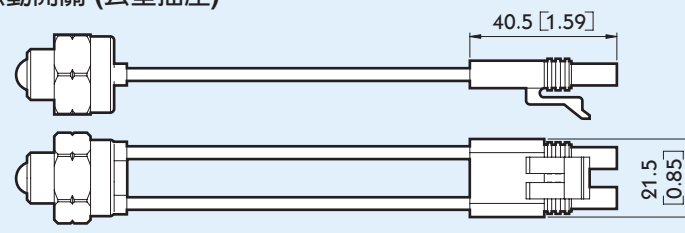
- 10⁵ OPERATIONS 500000 作動
- 7A / 13.5 VDC
- 5 X 10⁴ OPERATIONS 50000 作動
- 10A / 12 VDC
- 5 X 10⁴ OPERATIONS 50000 作動
- 3A / 28 VDC

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：YLMB14801 (NO)

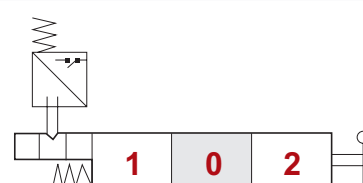
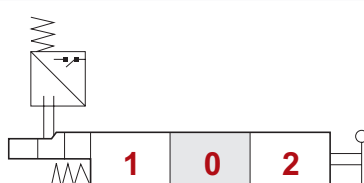
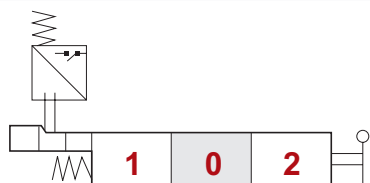
Code 編號：YLMB14802 (NO)

Code 編號：YLMB14803 (NO)

Code 編號：YLMB148011 (NC)

Code 編號：YLMB148021 (NC)

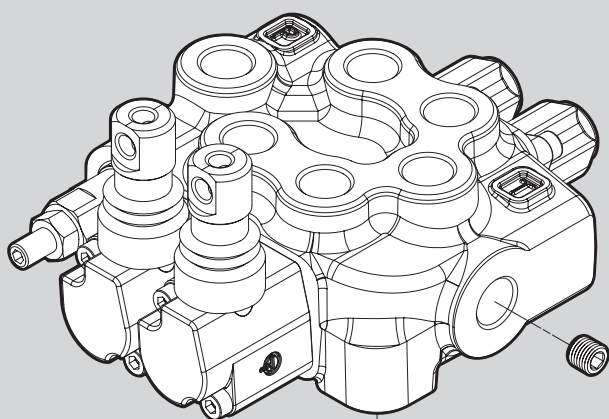
Code 編號：YLMB148031 (NC)



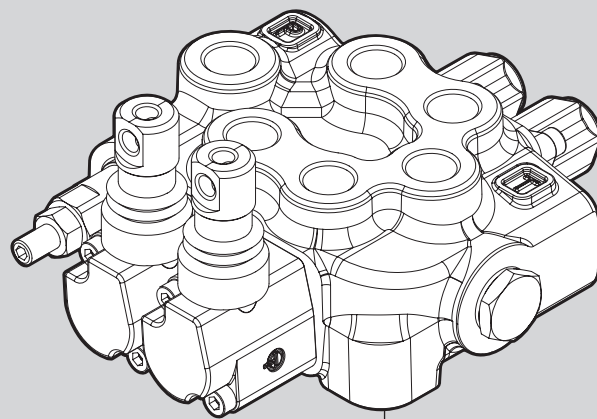
MB-1 Monoblock Directional Control Valves 塊式控制閥

Power Beyond Conversion Plug (Closed Center Plug)

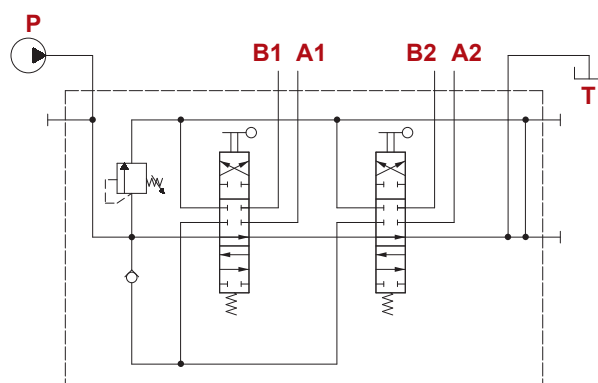
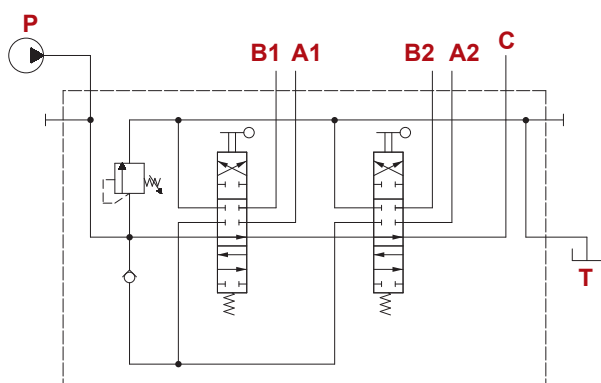
使用二次壓，需加裝特殊塞頭



M8



M3



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