

壓力控制閥

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推薦扭力值 Torsion Recommended

壓力控制閥 (遠程控制溢流閥)

PRESSURE CONTROL VALVE (Remote control relief valve)

壓力控制閥 遠程控制溢流閥
Pressure Control Valve (Remote control relief valve)

- DG-01, DT-01 遠程控制溢流閥兼具遠程控制，和多級壓力控制功能。
- Remote control relief valve both DG-01, DT-01 include function of remote control and multi-level pressure control.



DG-01



DT-01

型號意義 How to order :

D G - 01 - ※ K
1 2 3 4 5

1	系列號	Series
2	G: 板式連接 / T: 管式連接	G: SUB-Plate mounting / T: Threaded connections
3	口徑代號	Valve size 01:1/8"
4	壓力調整範圍	Pressure adjusting range
5	連動型	Linked type

產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pessure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
遠程控制溢流閥 Remote control relief valve	1/8	DG-01	B: 7~70 C: 35~140 H: 70~210 2H: 140~315	2	1.6
		DT-01		2	1.6

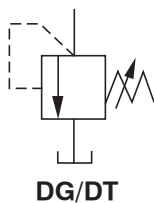
※ DG-01K為連動型遠程控制溢流閥，為低背壓使用。

※ DG-01-K is linked type remote control relief valve for low backpressure using.

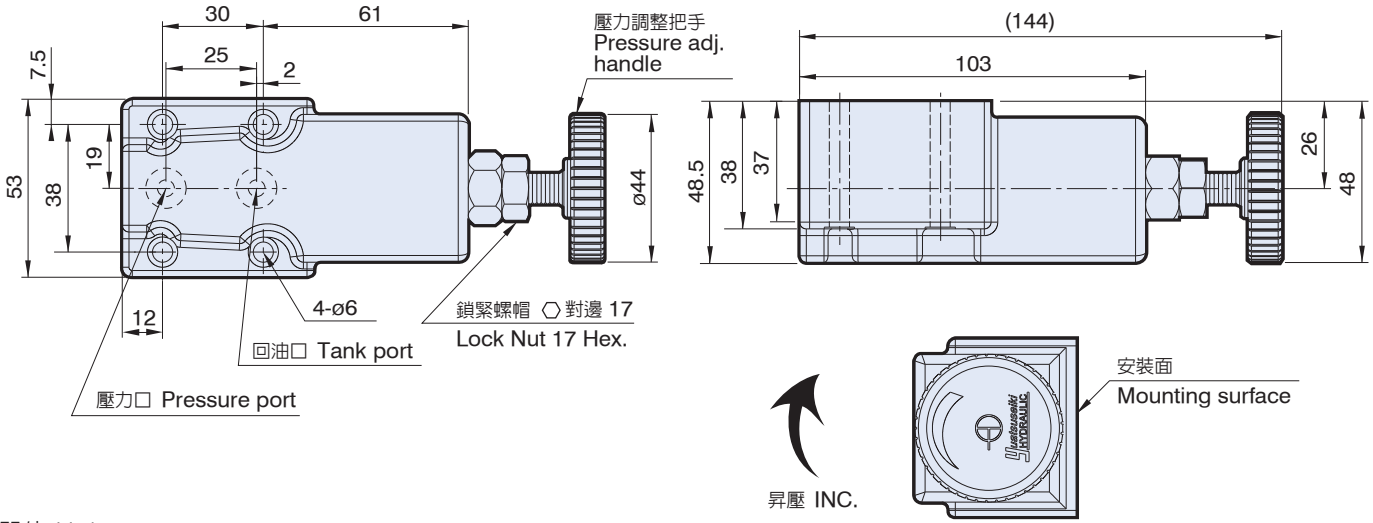
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
DG-01	M5 x 45L 4 支 piece	JIS B 2401-1B-P9 2 條 piece

圖形符號 Graphic symbol :

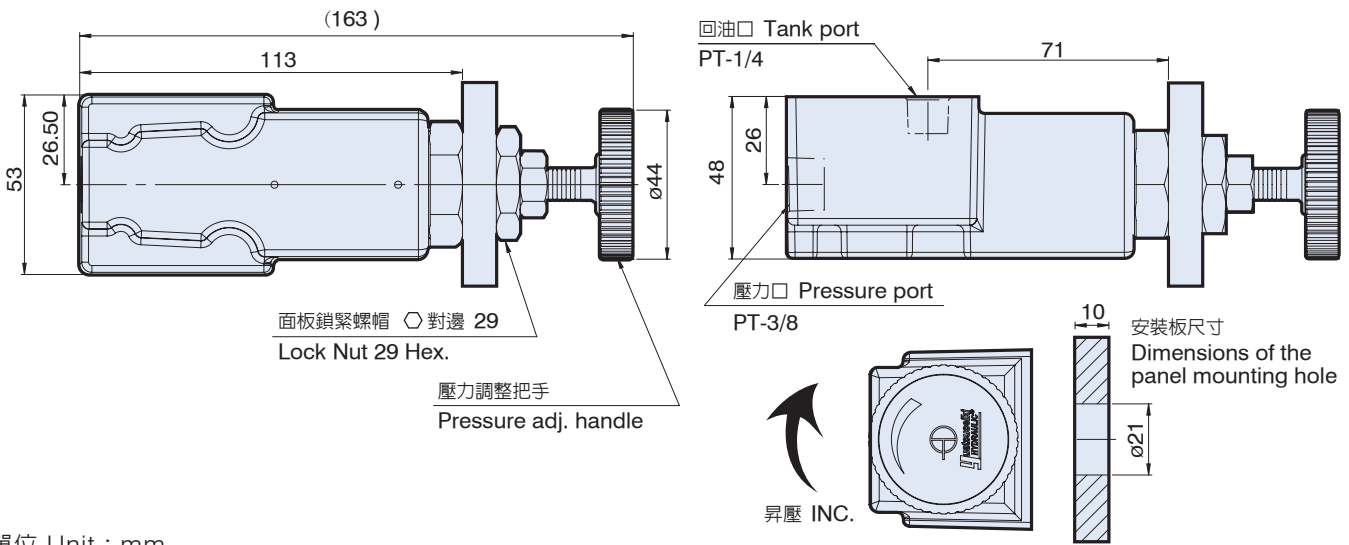


DG-01



單位 Unit : mm

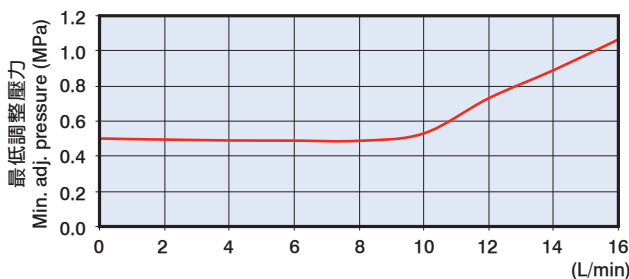
DT-01



單位 Unit : mm

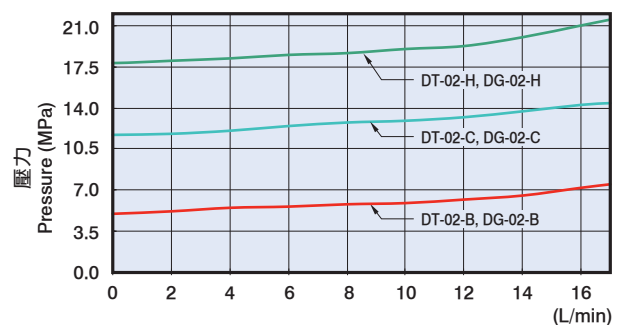
性能曲線圖 Performance curves

■ 最低調整壓力特性表 The characteristic chart of minimum pressure adjustment.



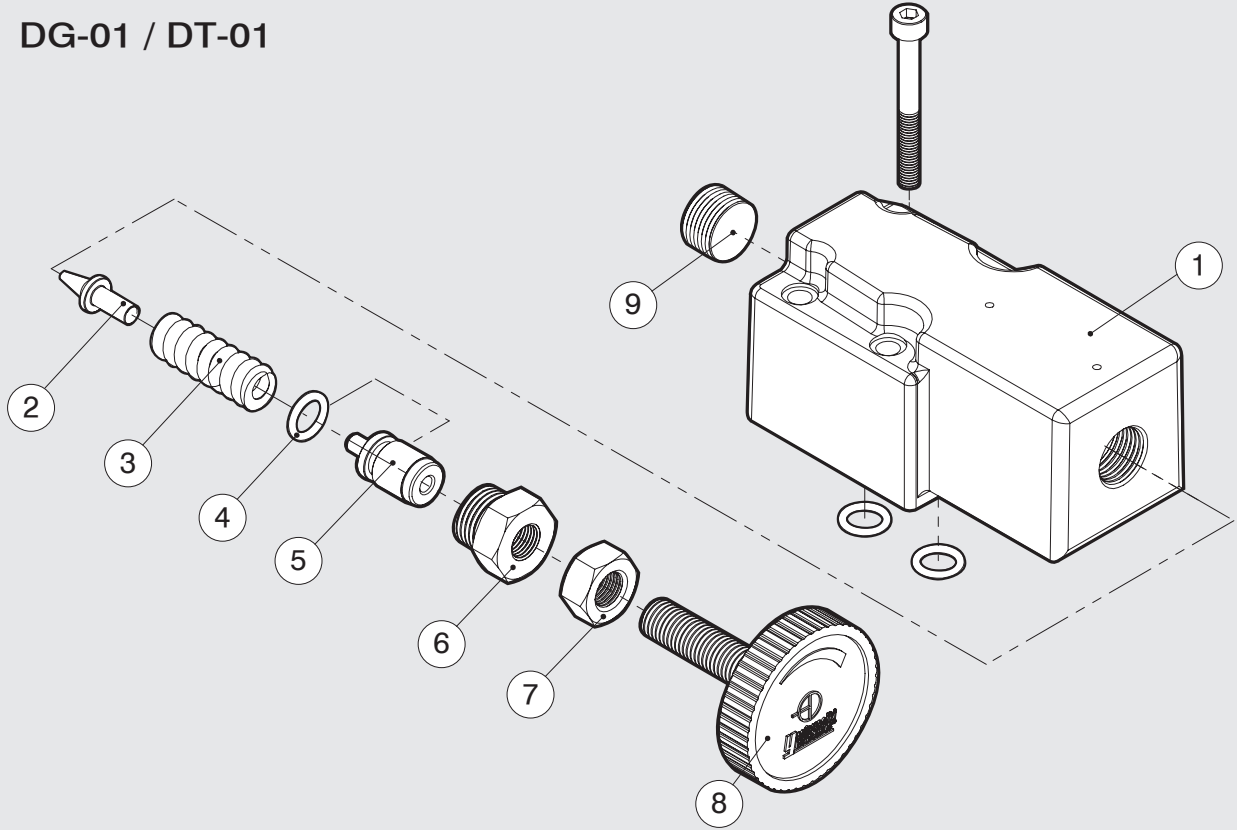
■ 流量-壓力特性曲線圖 The characteristic curve chart of Flow vs. Pressure.

使用油：黏度 Test fluid viscosity: 35mm²/s [cSt]
比重 Specific gravity of 0.850



爆炸圖 How to order for a complete assembled valve

DG-01 / DT-01

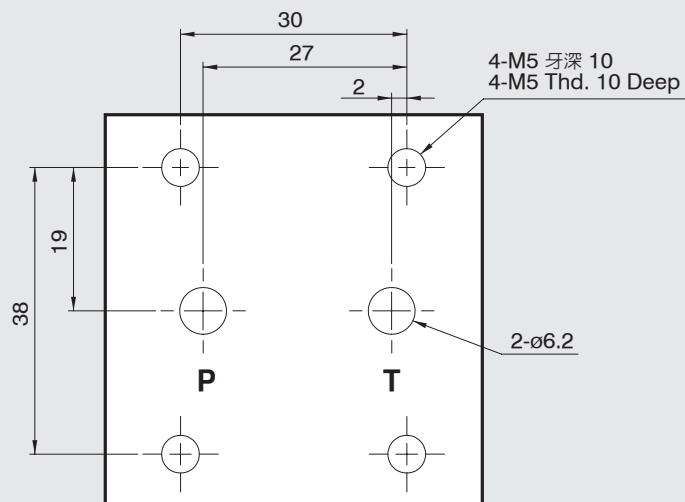


項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	針閥 Pilot poppet	1
3	彈簧 Spring	1
4	JIS B 2401-1A-P9	1
5	推桿 Push rod	1

項次編號 No.	品名 Name of parts	數量 Q
6	把手螺母 Nut	1
7	六角螺母 Nut	1
8	壓力調整把手 Pressure adj. handle	1
9	PT 3/8	1

底板尺寸圖 Bottom plate dimensions

DG-01 (DGM-02)



單位 Unit : mm

壓力控制閥 (直動型溢流閥)

PRESSURE CONTROL VALVE (Direct type relief valve)

- DG-02, DT-02 系列是直動式溢流閥，是應用於小流量系統中之安全閥。
- Direct type relief valve DG-02, DT-02 is a safety valve applied to small flow system.



DG-02



DT-02

型號意義 How to order :

D **G** - **02** - **※** **K**

1	系列號	Series
2	G: 板式連接 / T: 管式連接	G: SUB-Plate mounting / T: Threaded connections
3	口徑代號	Valve size 02:1/4"
4	壓力調整範圍	Pressure adjusting range
5	連動型	Linked type

產品規格 Specification :

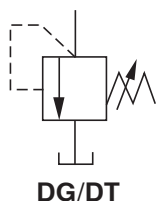
名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
直動型溢流閥 Direct Type Relief Valves	1/4	DG-02	A: 7~35 B: 7~70 C: 35~140 H: 70~210	16	1.5
		DT-02		16	1.6

- ※ DG-02K為連動型遠程控制溢流閥，為低背壓使用。
- ※ DG-02-K is linked type and direct type relief valve for low backpressure using.

附件 Attachment :

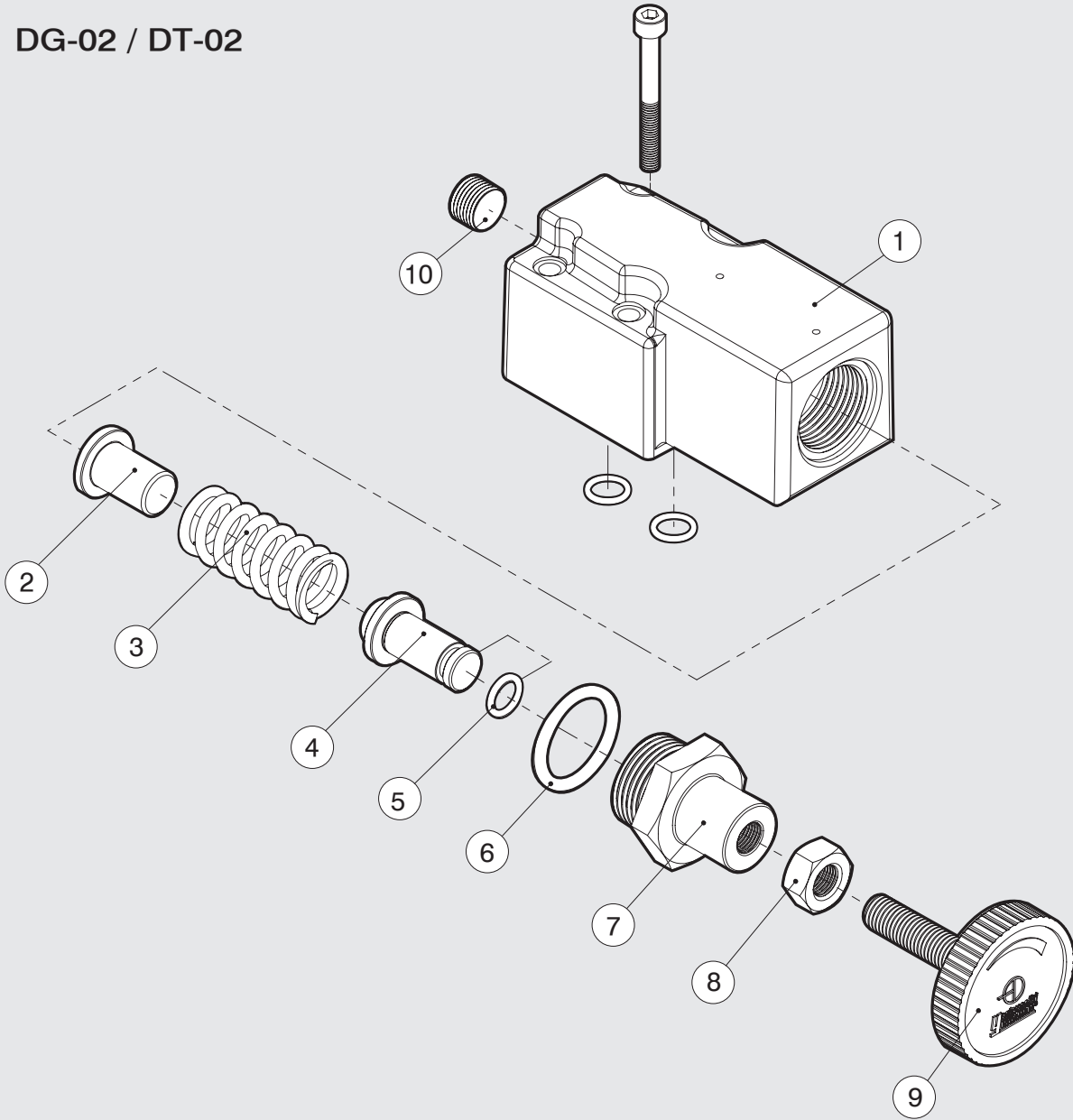
型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
DG-02	M5 x 45L 4 支 piece	JIS B 2401-1B-P9 2 條 piece

圖形符號 Graphic symbol :



爆炸圖 How to order for a complete assembled valve

DG-02 / DT-02



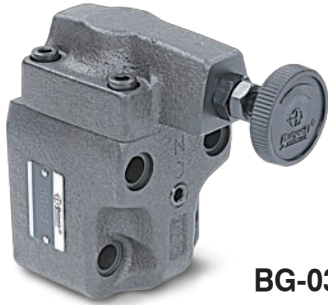
項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	活塞 Piston	1
3	彈簧 Spring	1
4	推桿 Push rod	1
5	JIS B 2401-1A-P9	1

項次編號 No.	品名 Name of parts	數量 Q
6	JIS B 2401-1A-P24	1
7	螺母 Nut	1
8	六角螺母 Nut	1
9	壓力調整把手 Pressure adj. handle	1
10	PT 1/4	1

※ 底板尺寸圖，請參照 P.3
 ※ Plate size drawing, please refer to Page.3

- BG 系列引導動作型溢流閥，採用先導式設計，除了具有低噪音設計特性，並提供系統中之穩壓作用。也適合遠程控制及卸載應用。

- Pilot operated relief valve BG series is designed with pilot, the feature includes low noise, and stabilizing the system pressure, also suitable for remote control and unloading.



BG-03.06.10

型號意義 How to order :

B G - 06 - ※ K
1 2 3 4 5

1	系列號	Series
2	板式連接	SUB-Plate mounting
3	口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
4	壓力調整範圍	Pressure adjusting range
5	連動型	Linked type

產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
引導動作型溢流閥 Pilot operated relief valves	3/8	BG-03	B: 7~70 C: 35~140 H: 70~210 2H: 140~315	100	5
	3/4	BG-06		200	6.4
	1-1/4	BG-10		400	10

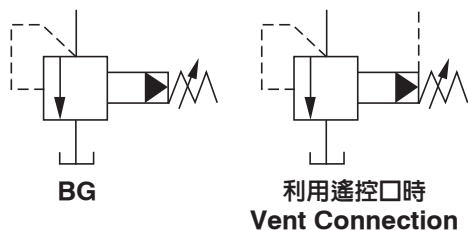
※ BG-K為連動型引導動作型溢流閥，為低背壓使用。

※ BG-K is linked type and pilot operated relief valve for low backpressure using.

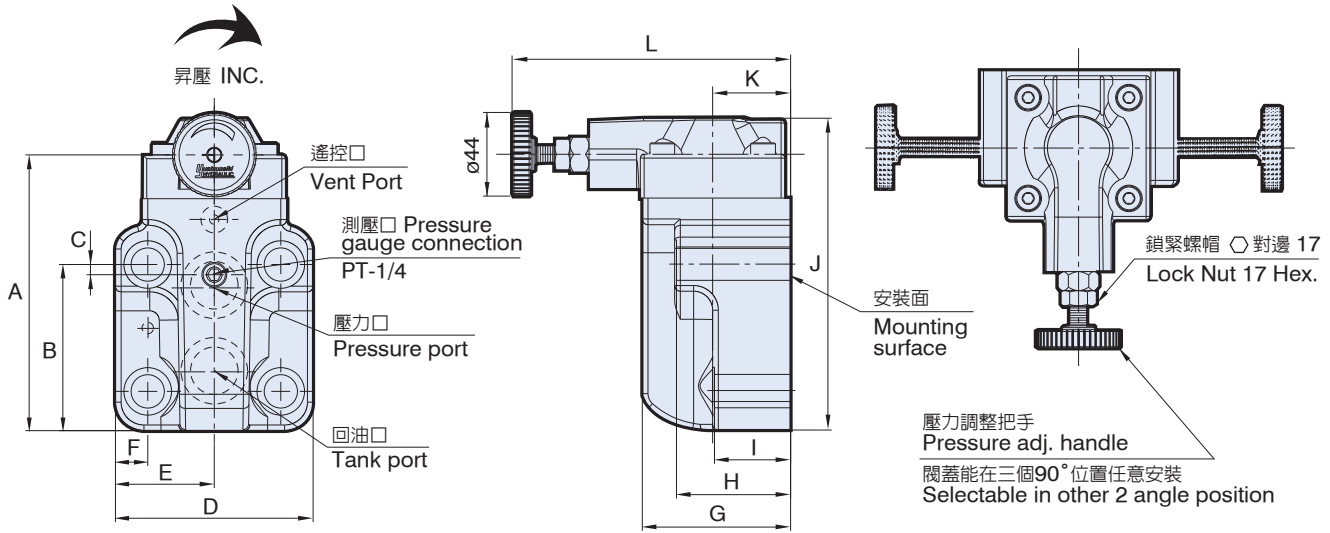
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring	
BG-03	M12 x 70L 2 支 piece	M12 x 90L 2 支 piece	JIS B 2401-1B-P9 1 條 piece	JIS B 2401-1B-P20 2 條 piece
BG-06	M16 x 55L 2 支 piece	M16 x 75L 2 支 piece	JIS B 2401-1B-P10A 1 條 piece	JIS B 2401-1B-P29 2 條 piece
BG-10	M20 x 70L 2 支 piece	M20 x 90L 2 支 piece	JIS B 2401-1B-P10A 1 條 piece	JIS B 2401-1B-P36 2 條 piece

圖形符號 Graphic symbol :



BG-03.06.10



單位 Unit : mm

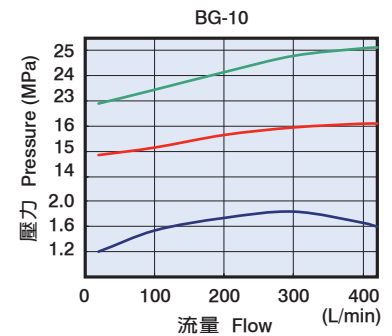
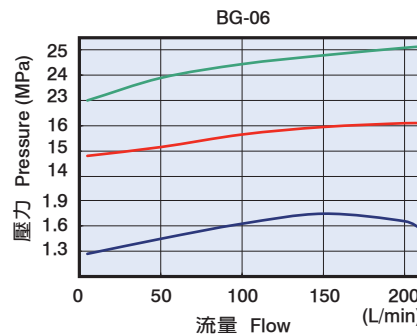
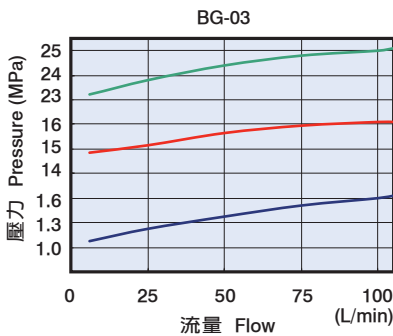
型號 Model	A	B	C	D	E	F	G	H	I	J	K	L
BG-03	117	75	22	83	41.5	14.6	79.5	76	56	135	41	148.5
BG-06	145	87.5	5.5	104	52	17	79	58.5	40	164	41	148.5
BG-10	174.3	106	8	125	62.5	21.2	90	69.5	49.5	195	46	154

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

The characteristic curve chart of Flow vs. Pressure.

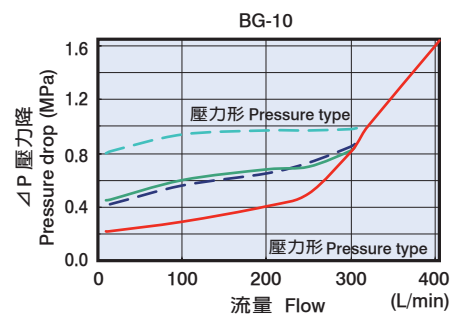
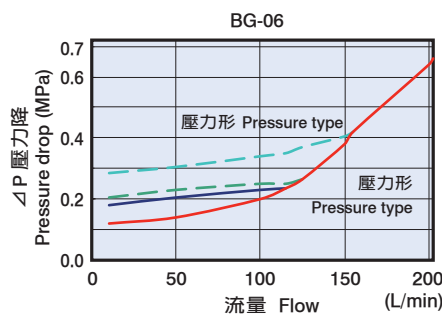
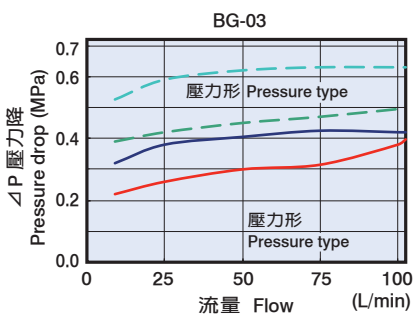
使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
比重 Specific gravity of 0.850



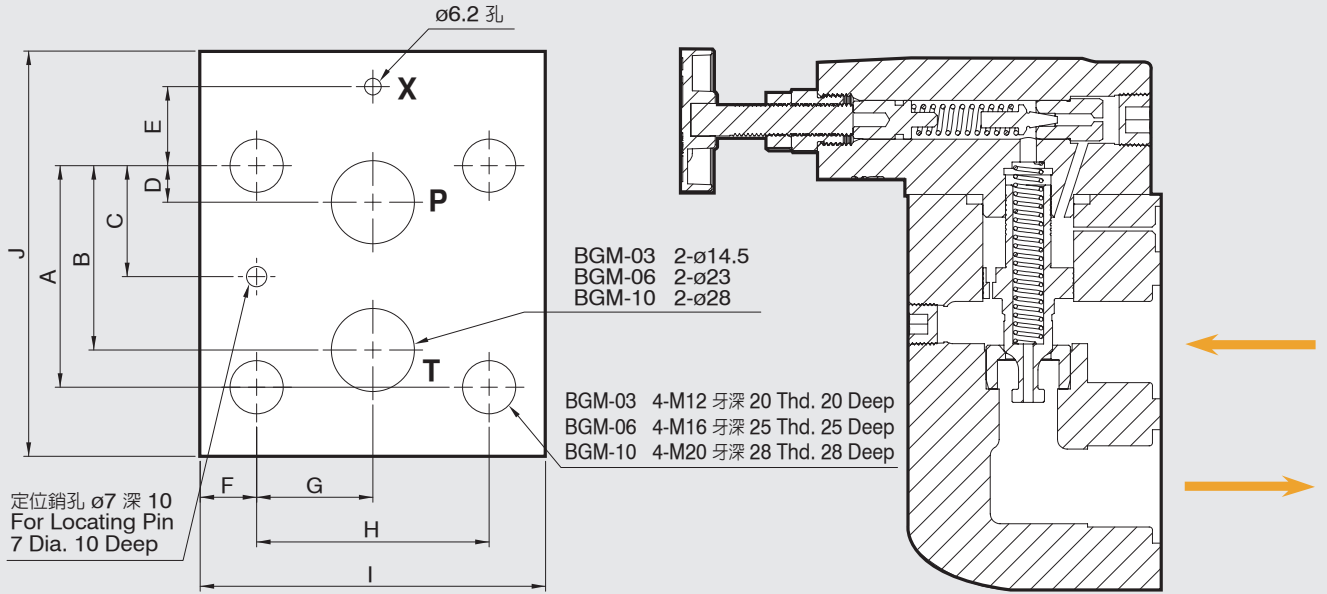
■ 流量-壓力降特性曲線圖

Flow vs. Pressure drop curve chart.

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
比重 Specific gravity of 0.850



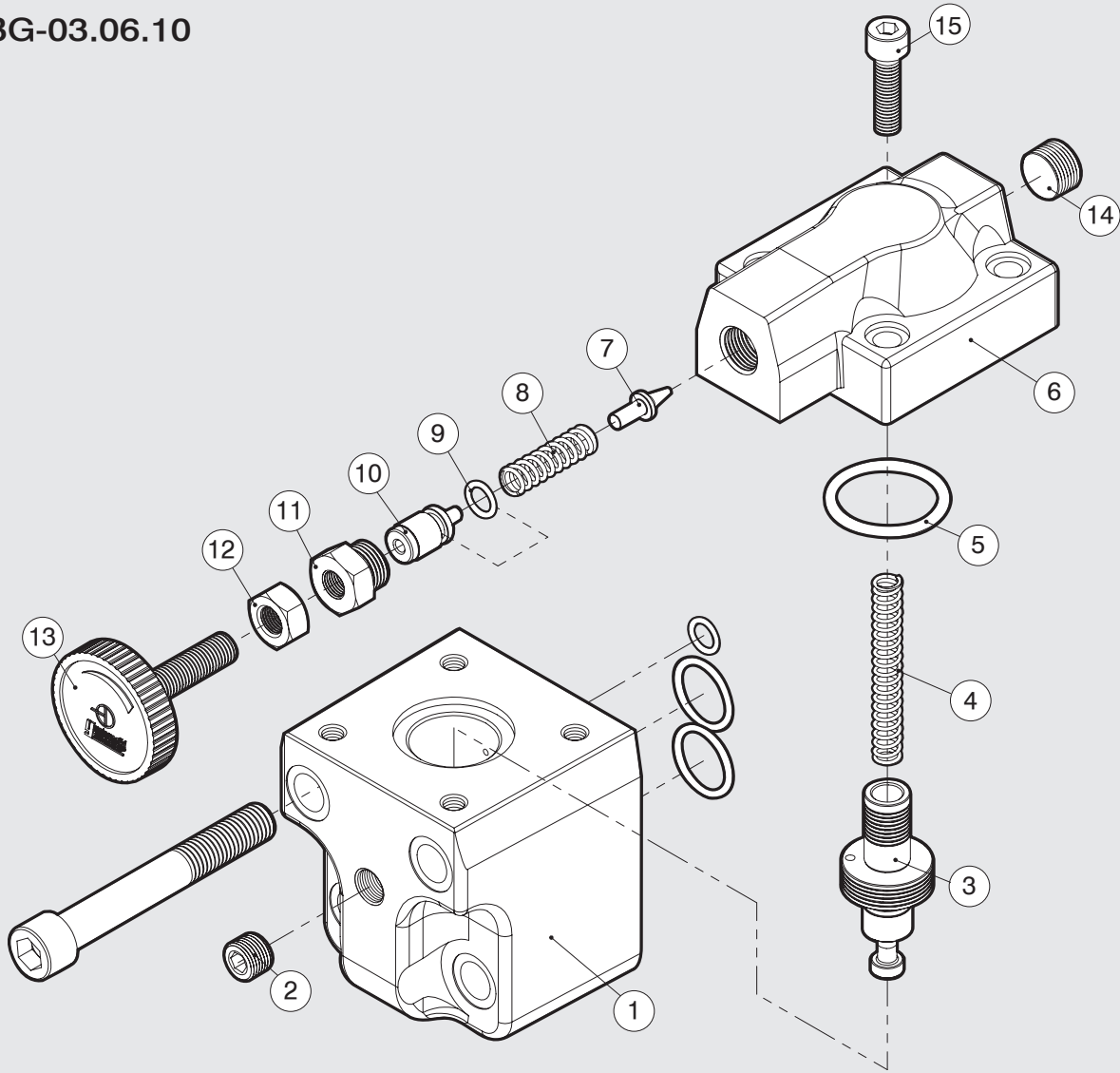
底板尺寸圖 Bottom plate dimensions



型號 Model	A	B	C	D	E	F	G	H	I	J		
BG-03 (BGM-03)	53.8	47.4	22	22	0	14.6	26.9	53.8	80	93		
BG-06 (BGM-06)	66.7	55.5	33.4	11	23.8	17	35	70	104	122		
BG-10 (BGM-10)	88.9	76.2	44.5	12.7	31.8	21.2	41.3	82.6	125	148		

爆炸圖 How to order for a complete assembled valve

BG-03.06.10



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	心軸 Spool	1
4	彈簧 Spring	1
5	BG-03.06 JIS B 2401-1B-P32	1
	BG-10 JIS B 2401-1B-P42	1
6	閥蓋 Cover	1
7	針閥 Pilot poppet	1
8	彈簧 Spring	1

項次編號 No.	品名 Name of parts	數量 Q
9	JIS B 2401-1A-P9	1
10	推桿 Push rod	1
11	把手螺母 Nut	1
12	六角螺母 Nut	1
13	壓力調整把手 Pressure adj. handle	1
14	PT 3/8	1
15	BG-03 M8 x 30L	4
	BG-06 M8 x 30L	4
	BG-10 M10 x 40L	4

- BT 之產品採用引導動作型設計，具低噪音特性。
- 提供油壓系統之穩壓功能。
- BT is designed with pilot operated, low noise.
- Stabling the pressure of hydraulic system.



BT-03. 04. 06. 10



BT-03. 04. 06-10

型號意義 How to order :

B T - 04 - ※ K

1 2 3 4 5

1	系列號	Series
2	管式連接	Threaded connections
3	口徑代號	Valve size 03:3/8", 04:1/2", 06:3/4", 10:1-1/4"
4	壓力調整範圍	Pressure adjusting range
5	連動型	Linked type

產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pessure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
引導式動作型 溢流閥 Pilot operated relief valves	3/8	BT-03	B: 7~70 C: 35~140 H: 70~210 2H: 140~315	100	2.2
	1/2	BT-04		100	2.2
	3/4	BT-06		200	4.1
	1-1/4	BT-10		400	8.8
	3/8	BT-03-10		100	5.4
	1/2	BT-04-10		100	5.4
	3/4	BT-06-10	200	5.4	

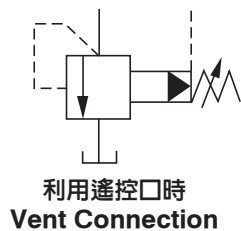
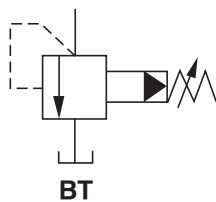
※ BT-K為連動型引導動作型溢流閥，為低背壓使用。

※ BT-K is linked type and pilot operated relief valve for low backpressure using.

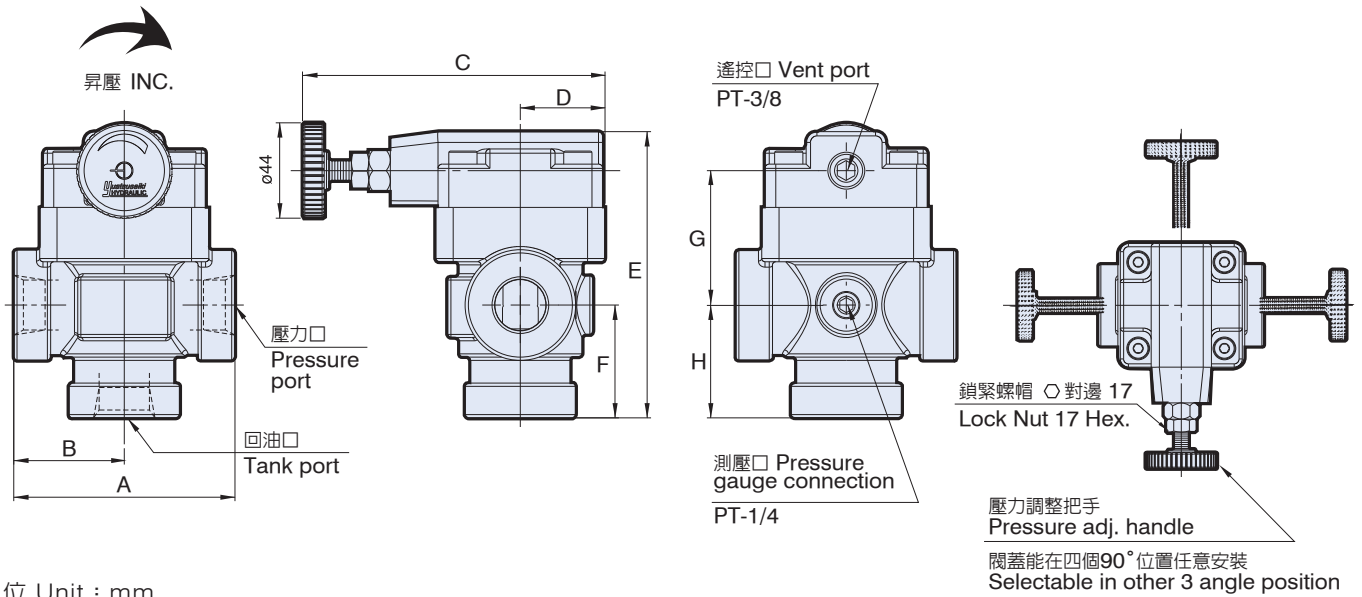
※ BT-13 為面板固定型。

※ BT-13 is typed with sub-plate mounting.

圖形符號 Graphic symbol :



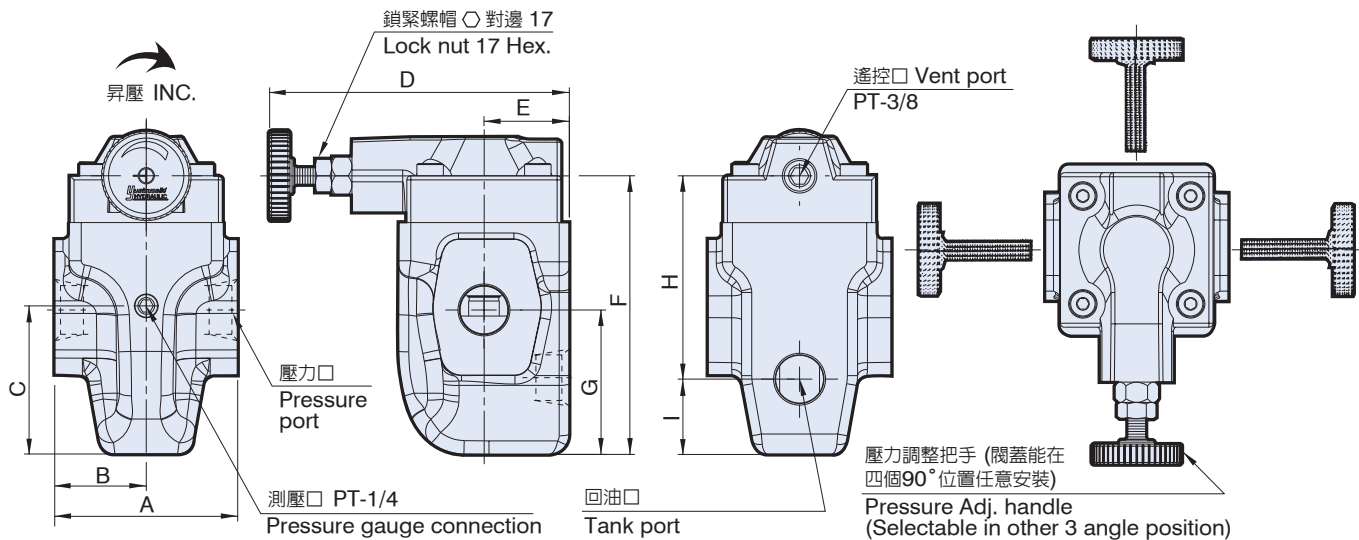
BT-03.04.06.10



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H			
BT-03.04	77	38.5	136.2	31.5	123	42	65	42			
BT-06	102	51	144.5	39	132	52	62	52			
BT-10	140	70	153.5	48	191	84	84	84			

BT-03.04.06-10



單位 Unit : mm

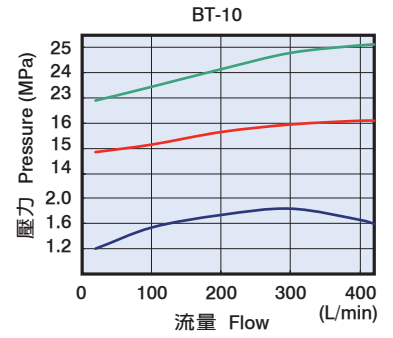
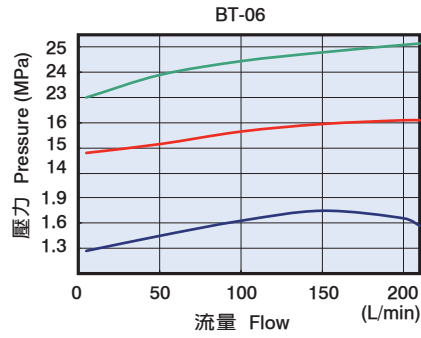
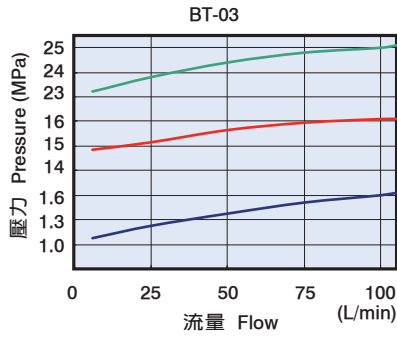
型號 Model	A	B	C	D	E	F	G	H	I		
BT-03-10	90	45	73	149.5	42	137	71	100	37		
BT-04-10	90	45	73	149.5	42	137	71	100	37		
BT-06-10	90	45	73	149.5	42	137	71	100	37		

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

The characteristic curve chart of Flow vs. Pressure.

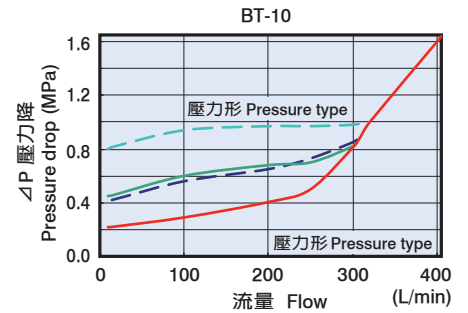
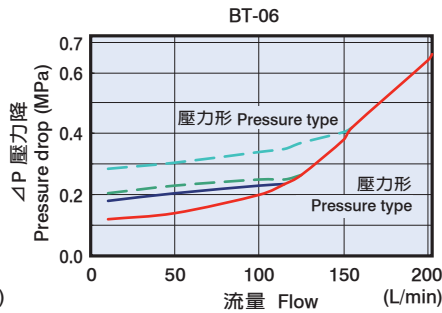
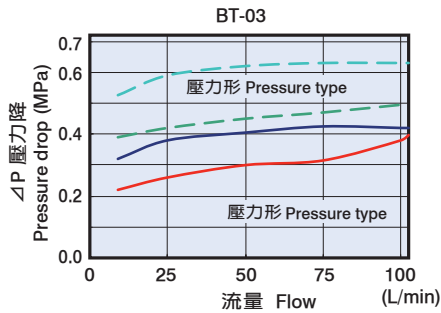
使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
比重 Specific gravity of 0.850



■ 流量-壓力降特性曲線圖

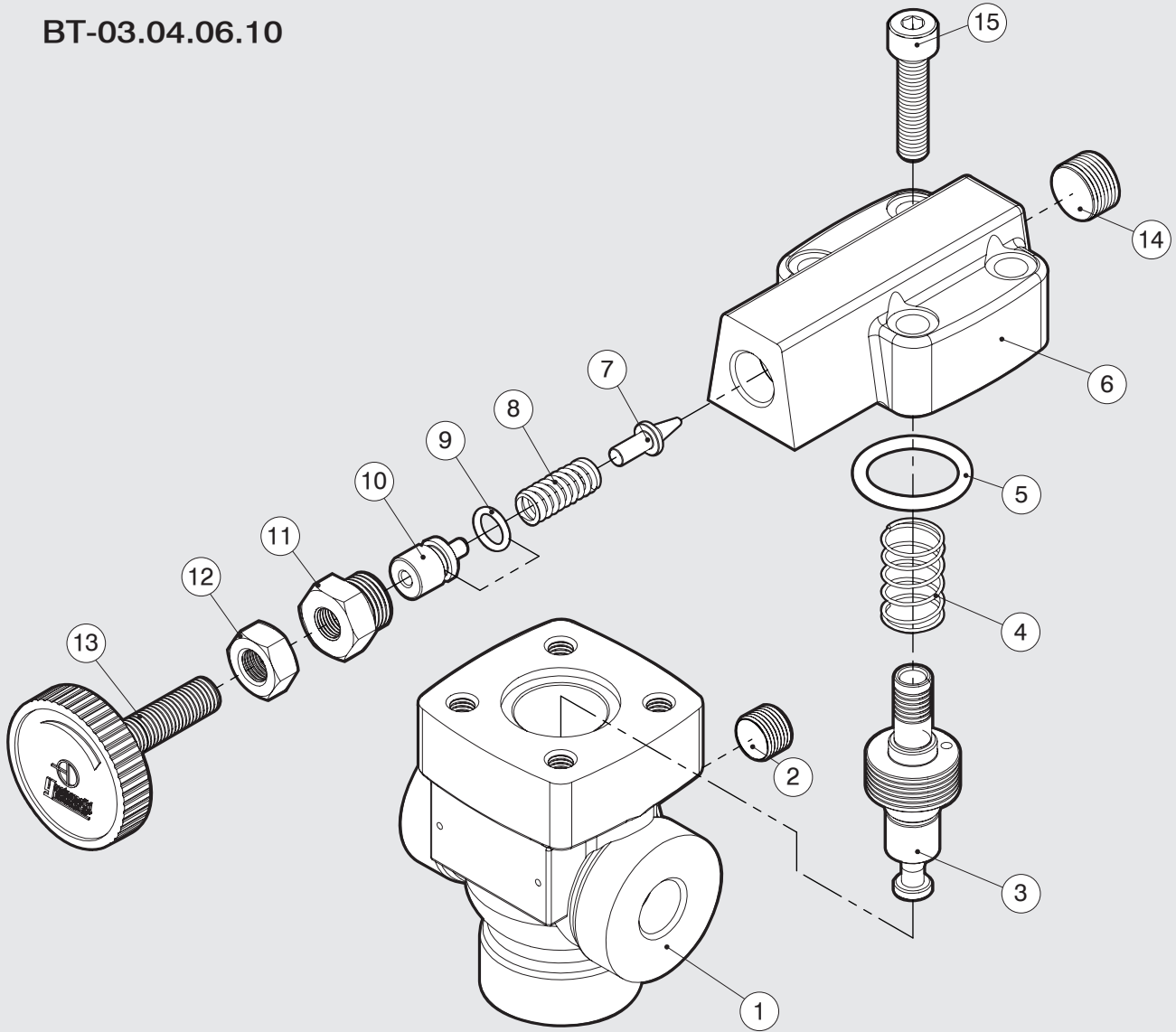
Flow vs. Pressure drop curve chart.

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
比重 Specific gravity of 0.850



爆炸圖 How to order for a complete assembled valve

BT-03.04.06.10



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	心軸 Spool	1
4	彈簧 Spring	1
5	BT-03.04 JIS B 2401-1B-P25	1
	BT-06 JIS B 2401-1B-P32	1
	BT-10 JIS B 2401-1B-P44	1
	BT-03-10	1
	BT-04-10 JIS B 2401-1B-P32	
BT-06-10		
6	閥蓋 Cover	1
7	針閥 Pilot poppet	1
8	彈簧 Spring	1

項次編號 No.	品名 Name of parts	數量 Q
9	JIS B 2401-1A-P9	1
10	推桿 Push rod	1
11	把手螺母 Nut	1
12	六角螺母 Nut	1
13	壓力調整把手 Pressure adj. handle	1
14	PT 3/8	1
15	BT-03.04 M8 x 35L	4
	BT-06 M8 x 30L	4
	BT-10 M10 x 45L	4
	BT-03-10	4
	BT-04-10 M8 x 30L	
	BT-06-10	

- 低噪音特性，操作穩定性高。
- 保護泵和控制閥以免超壓，並使液壓系統維持恆定壓力。
- 利用卸油口實現遠程控制和卸載應用。
- Low noise and high operation stability.
- It protects the pump and control valve avoiding the pressure beyond, and makes hydraulic system to keep the invariable pressure.
- It uses the drain port to apply for remote control and unloading


DB-03. 06

DB-10. 20. 30

型號意義 How to order :

DB - 06 - H

1 2 3

1	系列號	Series
2	口徑代號	Valve size 10:3/8", 20:3/4", 30:1-1/4"
3	壓力調整範圍	Pressure adjusting range

產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	最高使用壓力 MAX. Operating Pressure (Kg)	重量 Weight (Kg)
引導式動作型溢流閥 Pilot operated relief valve	3/8	DB-03-※	2H: 140~315	100	320	3.1
	3/4	DB-06-※		200		3.3
	3/8	DB-10-※	C: 35~140 2H: 140~315	100		3.1
	3/4	DB-20-※		200		4.4
	1-1/4	DB-30-※		400		6.5

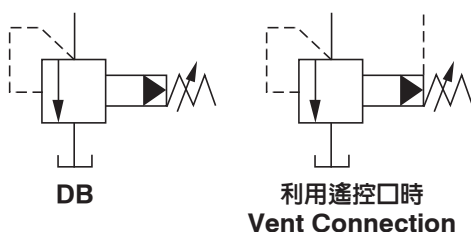
※ 重量為不含電磁閥之淨重。

※ The weight excludes the N. W. of solenoid valve.

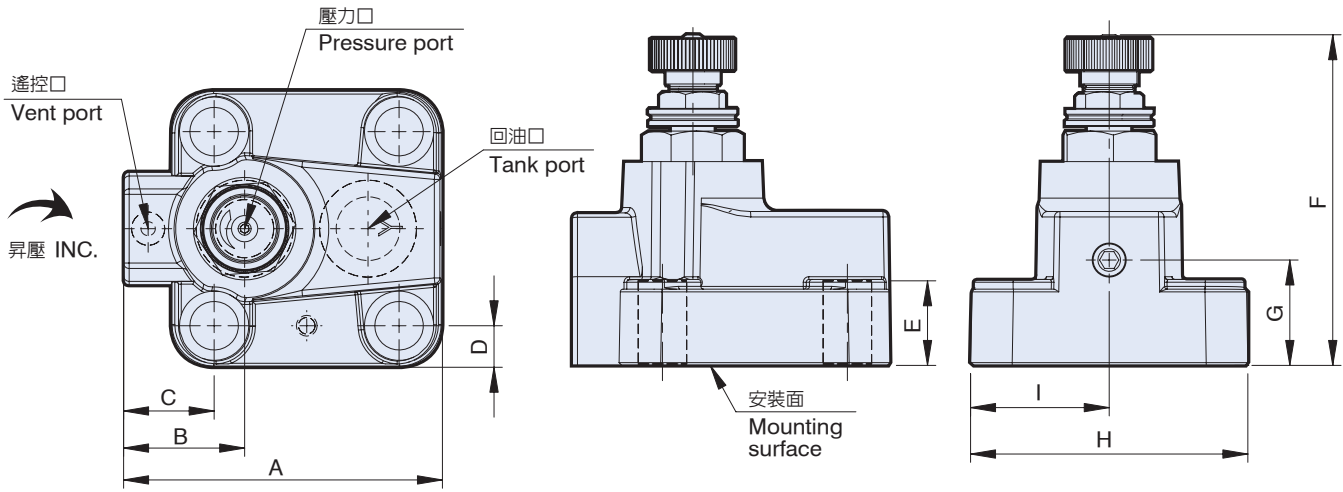
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
DB-03	M12 x 45L 4 支 piece	JIS B 2401-1B-P9 1 條 piece JIS B 2401-1B-P20 2 條 piece
DB-06	M16 x 45L 4 支 piece	JIS B 2401-1B-P9 1 條 piece JIS B 2401-1B-P29 2 條 piece
DB-10	M12 x 40L 4 支 piece	JIS B 2401-1B-P9 1 條 piece JIS B 2401-1B-P18 2 條 piece
DB-20	M16 x 45L 4 支 piece	JIS B 2401-1B-P9 1 條 piece JIS B 2401-1B-P29 2 條 piece
DB-30	M20 x 55L 4 支 piece	JIS B 2401-1B-P9 1 條 piece JIS B 2401-1B-P36 2 條 piece

圖形符號 Graphic symbol :



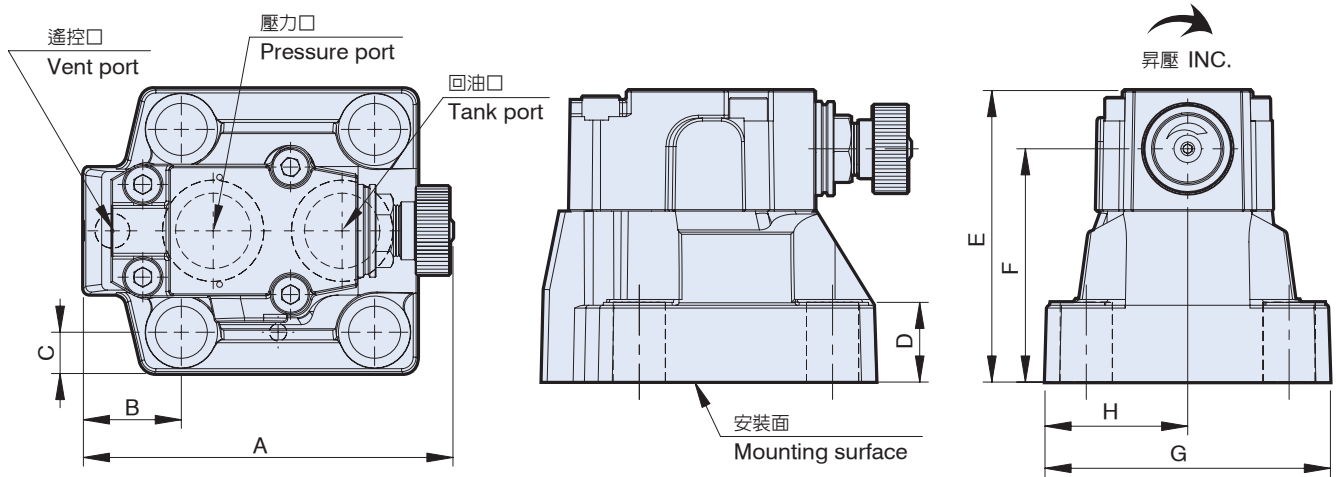
DB-03.06



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I
DB-03	97	45	23	15.1	32	119.2	42	84	42
DB-06	115	43.7	32.65	15	30.5	118.2	38	100	50

DB-10.20.30

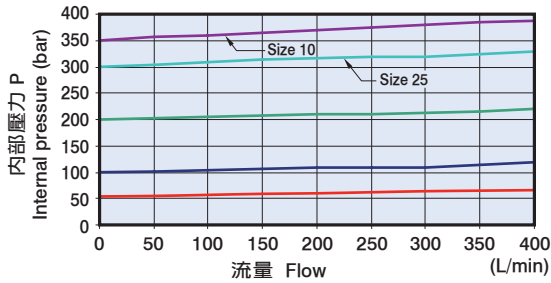


單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H
DB-10	120	27.2	12.1	24	100.6	80.5	78	39
DB-20	126.5	33.8	14.25	27.5	100.6	80.5	98.5	49.25
DB-30	150	42	15.9	29	103.6	83.5	114.5	57.25

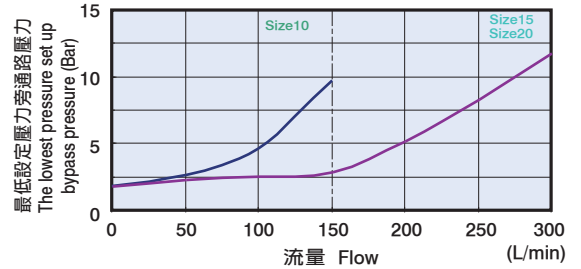
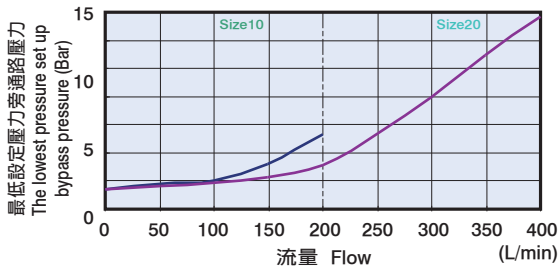
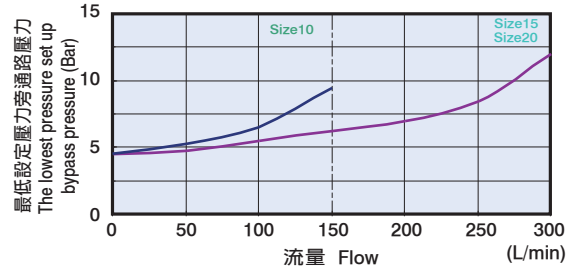
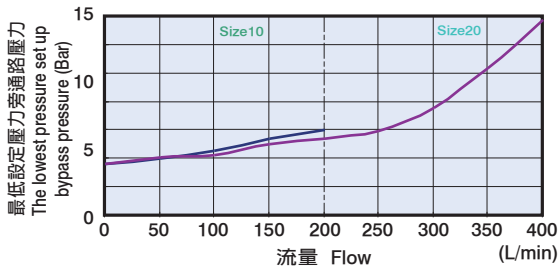
性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖 The characteristic curve chart of Flow vs. Pressure.

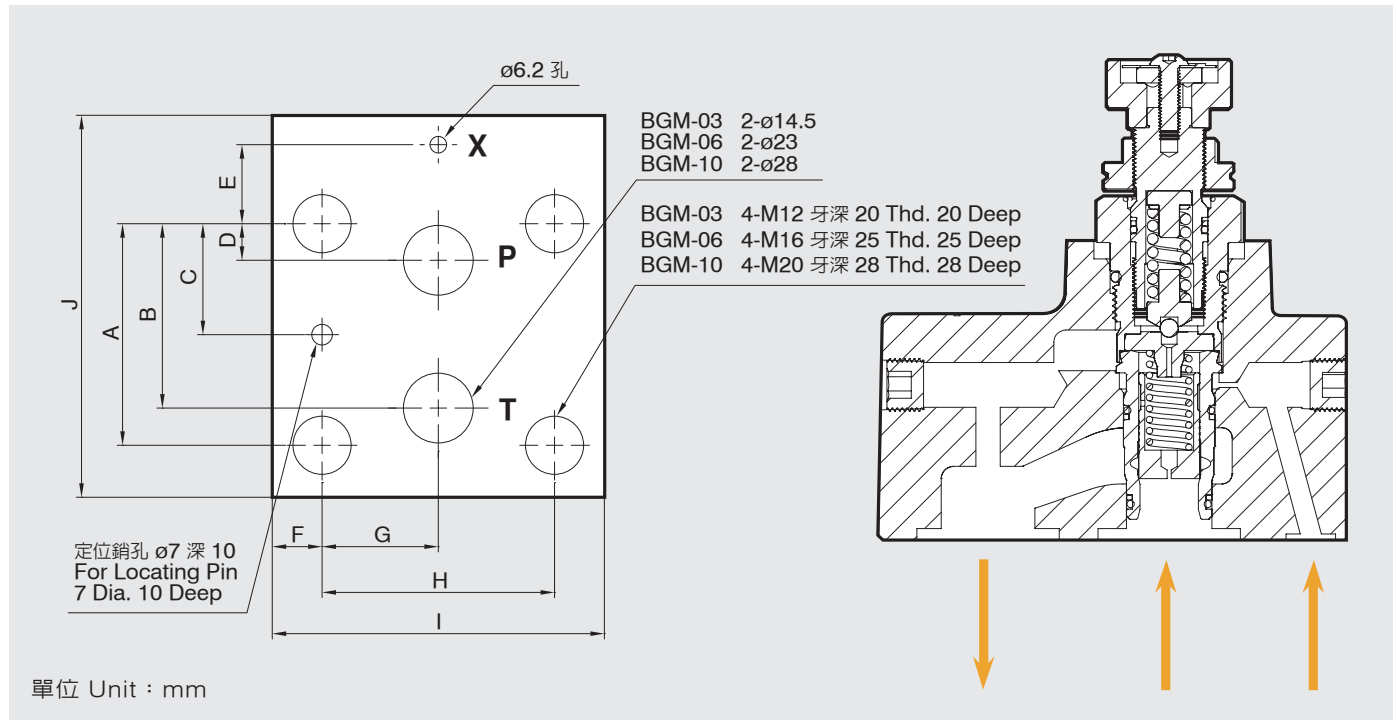


■ 最低設定壓力與旁通路壓力隨流量變化

The minimum set pressure and pressure in bypass will be changed by different flow.



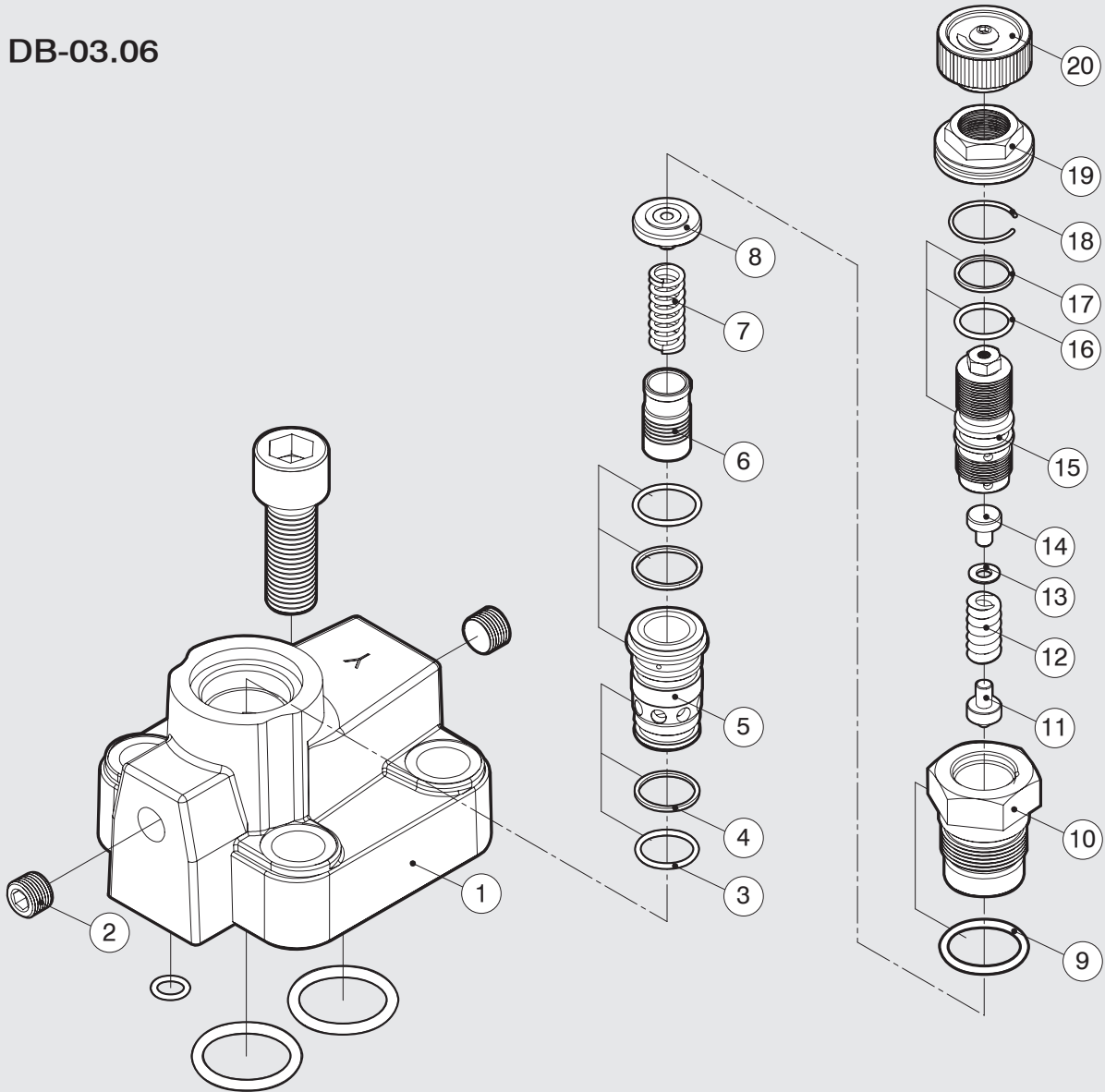
底板尺寸圖 Bottom plate dimensions



型號 Model	A	B	C	D	E	F	G	H	I	J		
DB-03 (BGM-03)	53.8	47.4	22	22	0	15.1	26.9	53.8	84	97		
DB-06 (BGM-06)	66.7	55.5	33.4	11	23.8	15	35	70	100	115		
DB-10 (BGM-03)	53.8	47.4	22	22	0	12.1	26.9	53.8	78	91		
DB-20 (BGM-06)	66.7	55.5	33.4	11	23.8	14.25	35	70	98.5	115.5		
DB-30 (BGM-10)	90	76.2	44.5	12.7	31.8	15.9	41.35	82.7	114.5	150		

爆炸圖 How to order for a complete assembled valve

DB-03.06

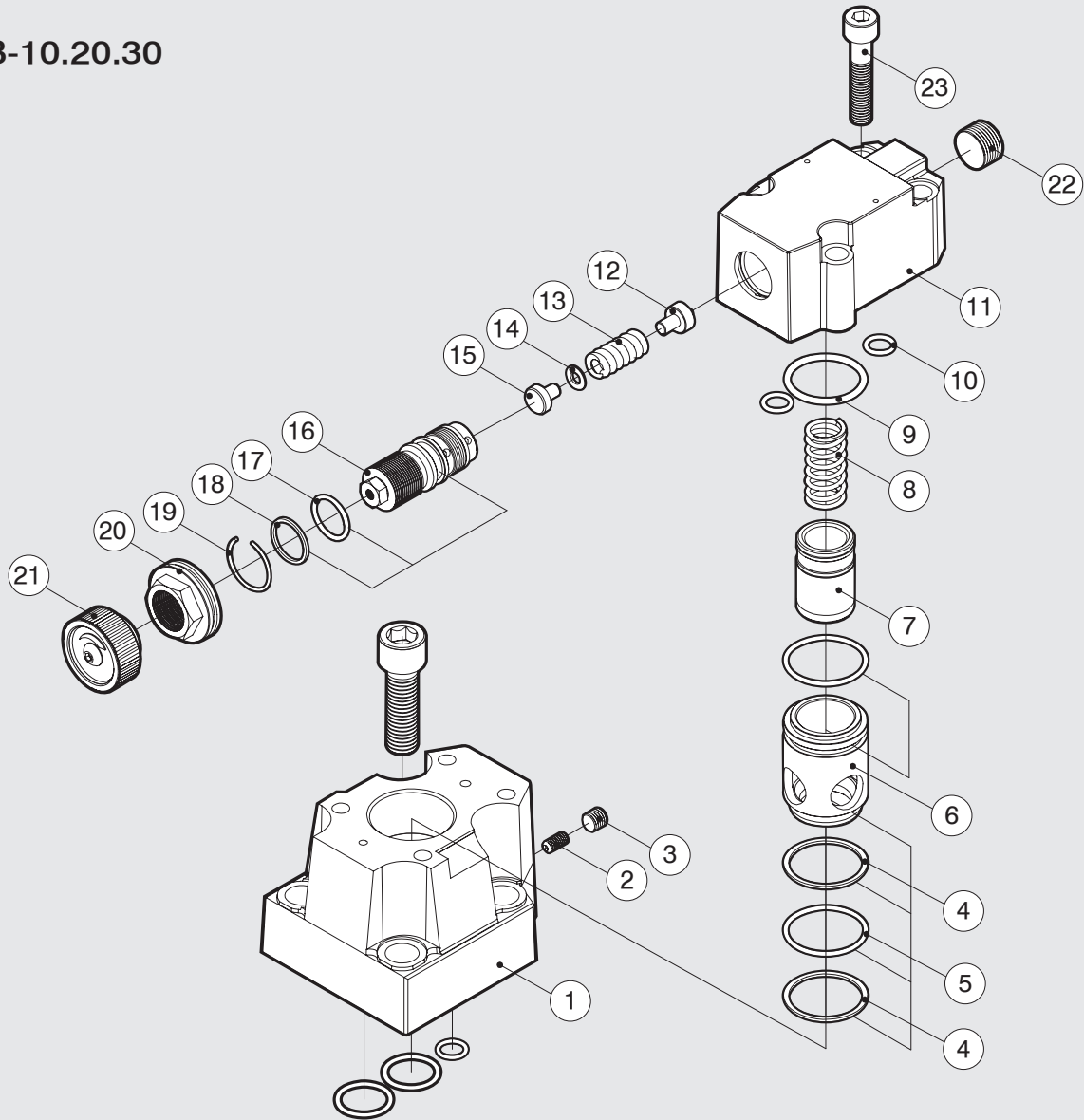


項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	DB-03 8-016	2
	DB-06 8-017	2
4	DB-03 2-016	2
	DB-06 2-017	2
5	槍子閥座 Check valve seat	1
6	槍子閥 Check valve	1
7	彈簧 Spring	1
8	球閥座 Check valve seat	1
9	2-119	1

項次編號 No.	品名 Name of parts	數量 Q
10	螺母 Nut	1
11	頂桿 Mandrel	1
12	彈簧 Spring	1
13	墊片 Washer	1
14	彈簧固定墊圈 Spring retainer	1
15	調整螺桿 Adj. screw	1
16	2-016	1
17	8-016	1
18	扣簧 Retainer	1
19	固定螺帽 Nut	1
20	壓力調整螺母 Pressure adj. nut	1

爆炸圖 How to order for a complete assembled valve

DB-10.20.30



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	通孔螺絲 Through hole screw	1
3	PT 1/16	1
4	8-024	1
		1
		2
5	SM-29	2
6	槍子閥座 Check valve seat	1
7	槍子閥 Check valve	1
8	彈簧 Spring	1
9	2-121	1
10	JIS B 2401-1B-P9	1
11	閥蓋 Cover	1

項次編號 No.	品名 Name of parts	數量 Q
12	頂桿 Mandrel	1
13	彈簧 Spring	1
14	墊片 Washer	1
15	彈簧固定墊圈 Spring retainer	1
16	調整螺桿 Adj. screw	1
17	2-016	1
18	8-016	1
19	扣簧 Retainer	1
20	固定螺帽 Nut	1
21	調整壓力螺母 Pressure adj. nut	1
22	PT 3/8	1
23	M8 x 40L	4

- SBG-03, SBG-06, SBG-10 引導動作型溢流閥，具有極低噪音之特性。
- Pilot operated relief valve SBG-03, SBG-06, SBG-10 is designed with low noise.


SBG-03. 06. 10

型號意義 How to order :

S B G - 06 - ※ R
 1 2 3 4 5 6

1	低噪音型	Low noise
2	系列號	Series
3	板式連接	SUB-Plate mounting
4	口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
5	壓力調整範圍	Pressure adjusting range
6	壓力把手位置	Pressure Handle position
	R: 把手朝壓力口方向 (標準品・無記號)	R: Handle is facing to the pressure port (standard, no remarked)
	L: 把手朝回油口方向	L: Handle is facing to the tank port

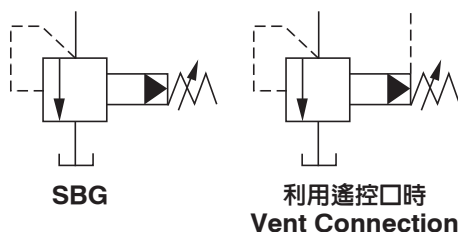
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
引導動作型溢流閥低噪音型 Low Noise Type Solenoid Controlled Relief Valves	3/8	SBG-03	B: 7~70	100	4.7
	3/4	SBG-06	C: 35~140	200	6.1
	1-1/4	SBG-10	H: 70~210 2H: 140~315	400	9.4

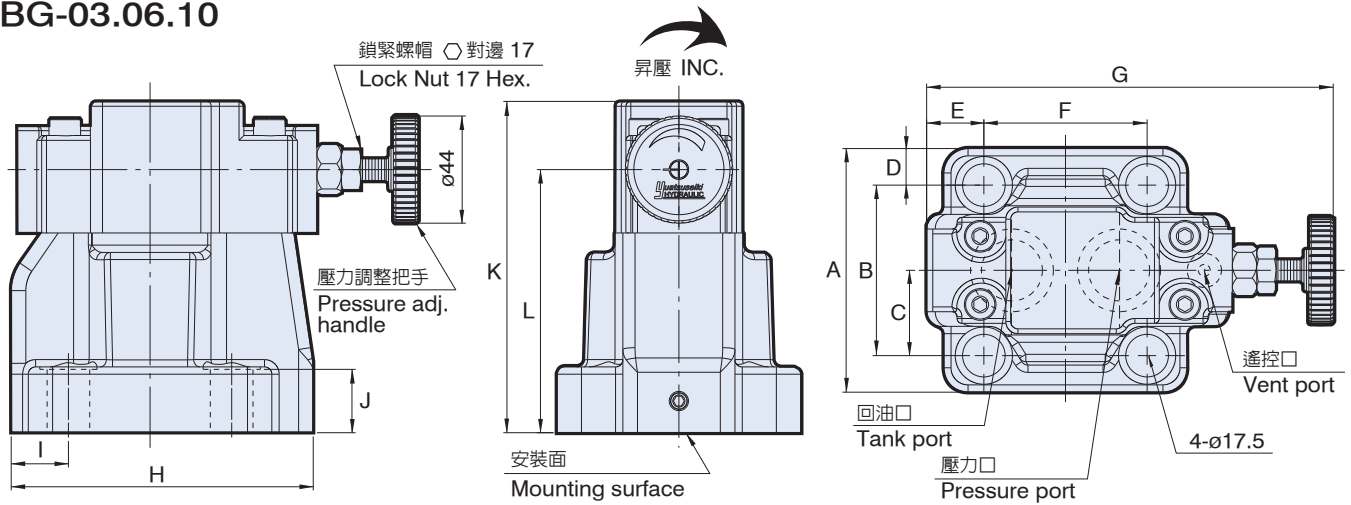
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
SBG-03	M12 x 40L 4 支 piece	JIS B 2401-1B-P9 1 條 piece JIS B 2401-1B-P20 2 條 piece
SBG-06	M16 x 45L 4 支 piece	JIS B 2401-1B-P10A 1 條 piece JIS B 2401-1B-P28 2 條 piece
SBG-10	M20 x 55L 4 支 piece	JIS B 2401-1B-P10A 1 條 piece JIS B 2401-1B-P36 2 條 piece

圖形符號 Graphic symbol :



SBG-03.06.10



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L
SBG-03	78	53.8	27	12	34.5	53.8	166	107	26.5	23	134	106
SBG-06	100	70	35	15	23.5	66.7	168.5	124	23.5	26	136	108
SBG-10	127	82.6	41.3	22.2	20.5	89	187	155	20.5	36	145	120

性能曲線圖 Performance curves

測定位置：閥前方1m處 Measuring position: At 1m back from the valve front

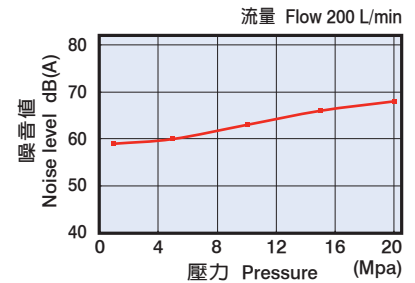
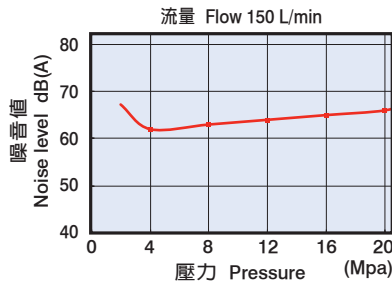
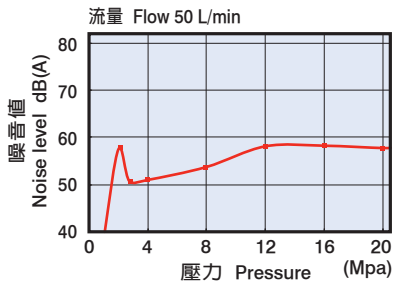
■ 噪音特性 Noise

SBG-03

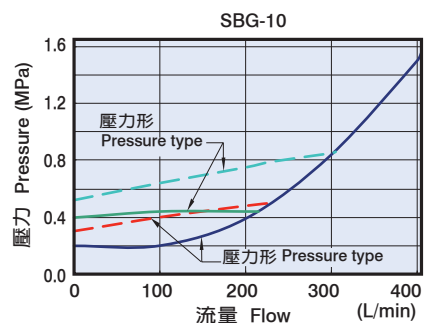
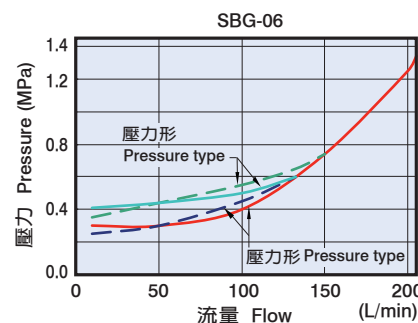
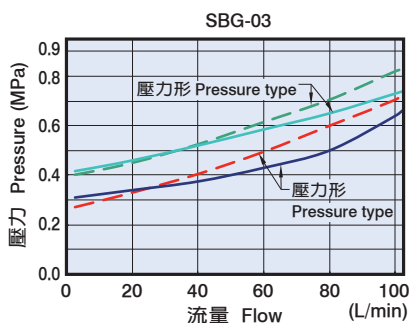
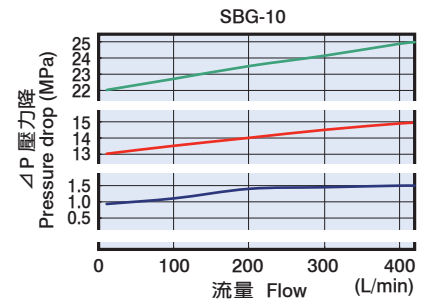
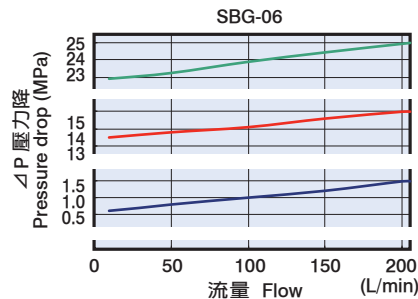
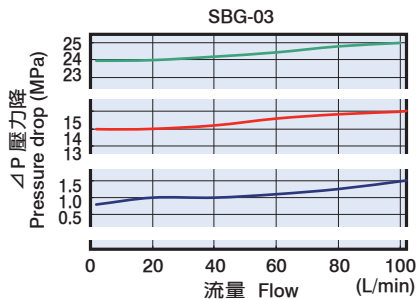
SBG-06

SBG-10

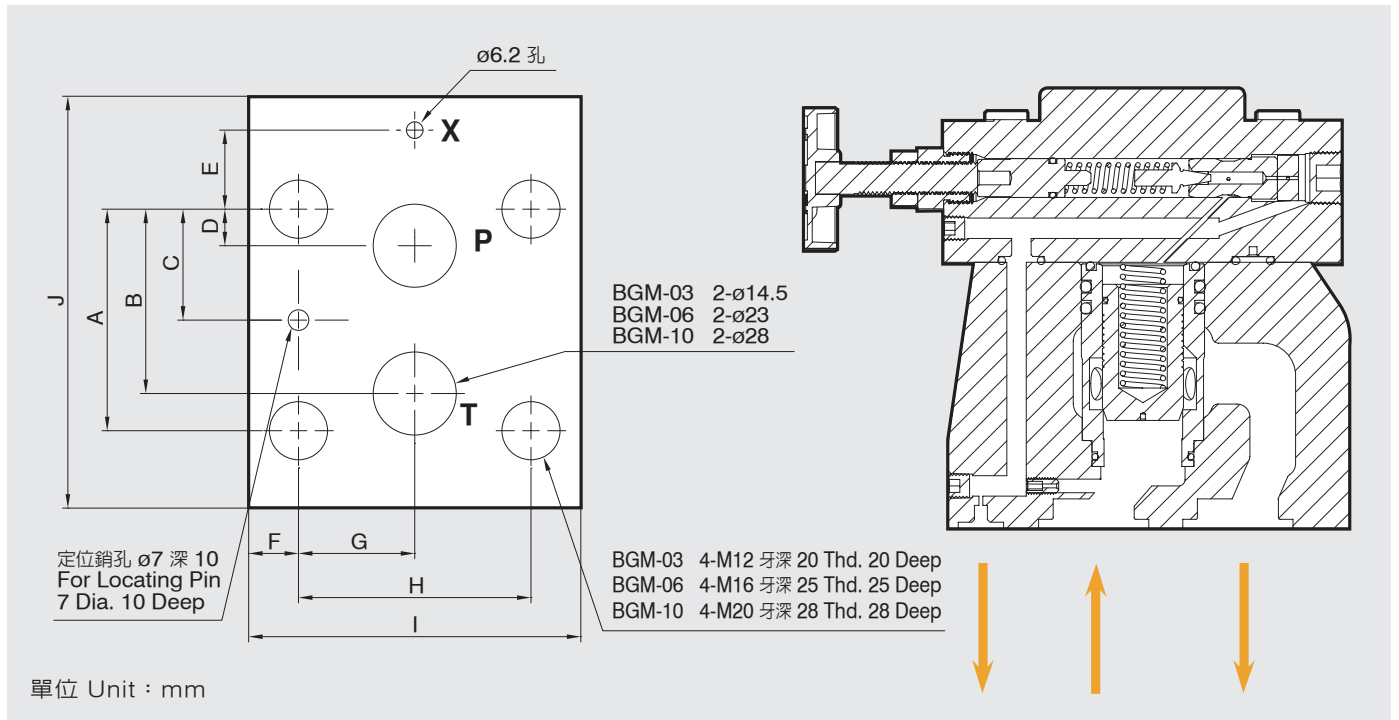
使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}



■ 流量-壓力特性曲線圖 The characteristic curve chart of Flow vs. Pressure.



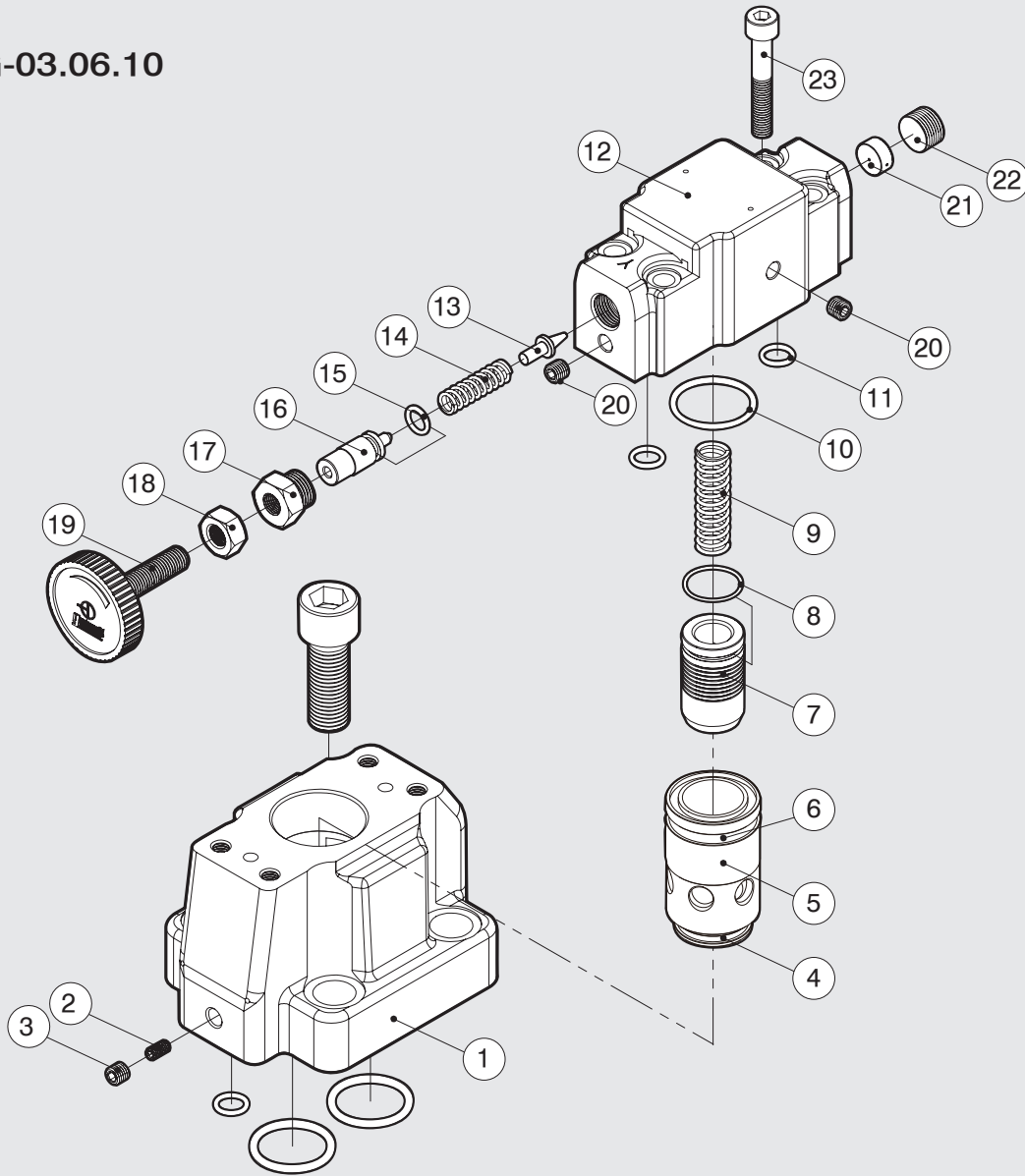
底板尺寸圖 Bottom plate dimensions



型號 Model	A	B	C	D	E	F	G	H	I	J		
SBG-03 (BGM-03)	53.8	47.4	22	22	0	12.1	26.9	53.8	78	107		
SBG-06 (BGM-06)	66.7	55.5	33.4	11	23.8	15	35	70	100	124		
SBG-10 (BGM-10)	88.9	76.2	44.5	12.7	31.8	22.2	41.3	82.6	127	155		

爆炸圖 How to order for a complete assembled valve

SBG-03.06.10



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	通孔螺絲 Through hole screw	1
3	PT 1/16	1
4	SBG-03.06 2-024 x 1, 8-024 x 1	1
	SBG-10 JIS B 2401-1A-P42	1
5	槍子閥座 Check valve seat	1
6	SBG-03.06 2-028 x 1, 8-028 x 2	2
	SBG-10 JIS B 2401-1A-P44	1
7	槍子閥 Check valve	1
8	SBG-03.06 SM-22	1
	SBG-10 無 None	
9	彈簧 Spring	1
10	SBG-03.06 2-123	1
	SBG-10 JIS B 2401-1B-P38	1

項次編號 No.	品名 Name of parts	數量 Q
11	JIS B 2401-1A-P10A	2
12	閥蓋 Cover	1
13	針閥 Pilot poppet	1
14	彈簧 Spring	1
15	JIS B 2401-1A-P9	1
16	推桿 Push rod	1
17	把手螺母 Nut	1
18	六角螺母 Nut	1
19	壓力調整把手 Pressure adj. handle	1
20	PT 1/16	2
21	消音墊片 Washer for noise reduction	1
22	PT 3/8	1
23	SBG-03.06 M8 x 50L	4
	SBG-10 M8 x 60L	4

- BSG/BST 系列電磁引導動作型溢流閥之結構是由溢流閥和電磁換向閥組成。
- 電磁換向閥安裝在溢流閥上，並與溢流閥搖控口連通。
- 電磁線圈之電力信號可搖控系統之壓力。
- Solenoid pilot operated relief valve BSG/BST series is composed of relief valve and solenoid valve.
- Solenoid valve is mounted on top of relief valve, and connected with vent port of relief valve.
- The power signal of solenoid can control the system pressure.



BSG-03.06.10



BST-04.06.10

型號意義 How to order :

BS G - 06 - ※ - 2B2 - A

1 2 3 4 5 6

1	系列號	Series
2	G: 板式連接 / T: 管式連接	G: SUB-Plate mounting / T: Threaded connections
3	口徑代號	Valve size 03:3/8", 04:1/2", 06:3/4", 10:1-1/4"
4	壓力調整範圍	Pressure adjusting range
5	電磁閥型號	Solenoid valve type
6	電磁閥方向	The direction of solenoid valve
	A: 與手把呈 180° (無記號)	A: 180° against to handle (unmarked)
	L: 與手把呈 90°	L: 90° against to handle

產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
電磁引導動作型溢流閥 Solenoid controlled relief valves	3/8	BSG-03 / BST-03-10	B: 7~70	100	5.8
	1/2	BST-04	C: 35~140	100	4.7
	3/4	BSG / BST-06	H: 70~210	200	7 / 4.7
	1-1/4	BSG / BST-10	2H: 140~315	400	10.8 / 8.9

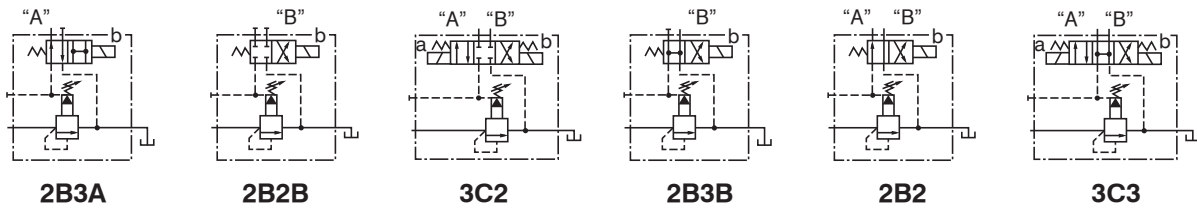
※ 重量為不含電磁閥之淨重。

※ The weight excludes the N. W. of solenoid valve.

附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring	
BSG-03	M12 x 70L 2 支 piece	M12 x 90L 2 支 piece	JIS B 2401-1B-P9 1 條 piece	JIS B 2401-1B-P20 2 條 piece
BSG-06	M16 x 55L 2 支 piece	M16 x 75L 2 支 piece	JIS B 2401-1B-P10A 1 條 piece	JIS B 2401-1B-P29 2 條 piece
BSG-10	M20 x 70L 2 支 piece	M20 x 90L 2 支 piece	JIS B 2401-1B-P10A 1 條 piece	JIS B 2401-1B-P36 2 條 piece

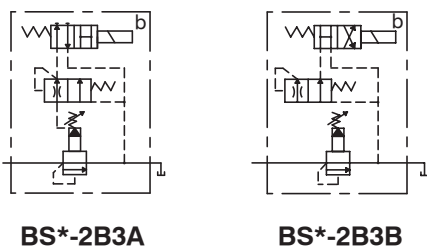
圖形符號 Graphic symbol :



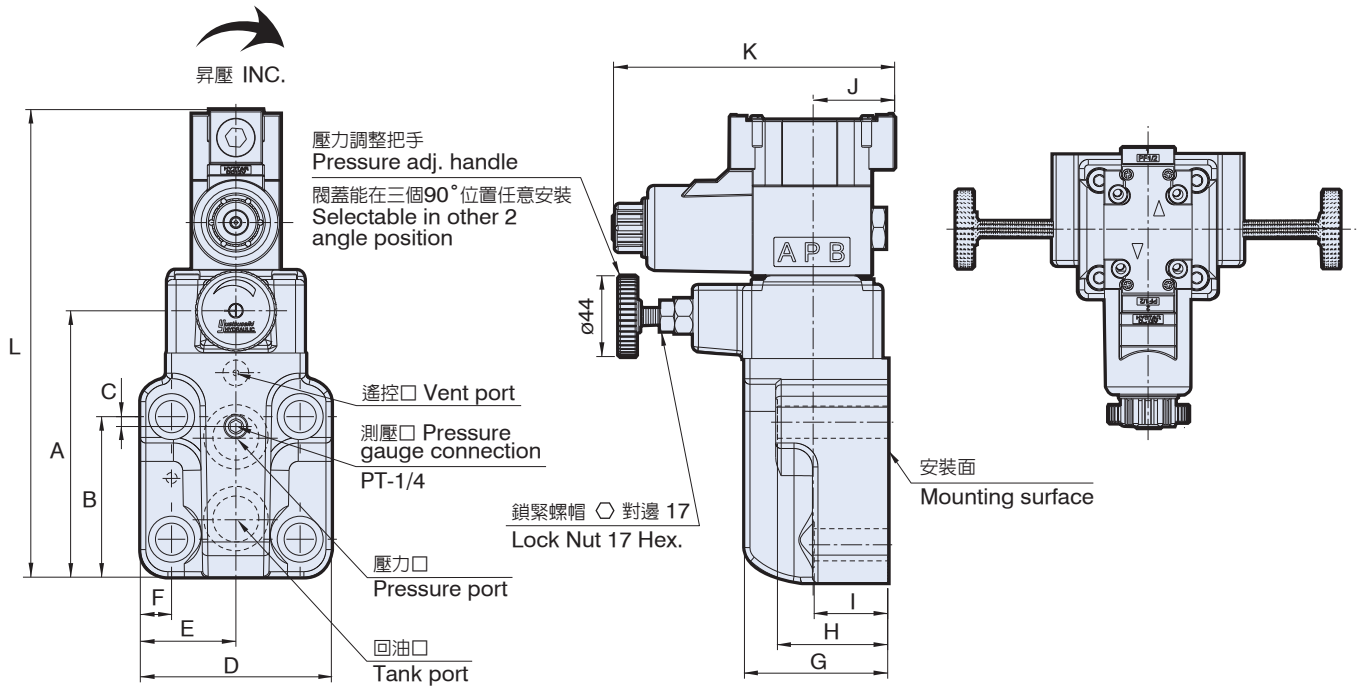
電磁閥符號 Solenoid valve type :

控制方式 Control Mode	圖形符號 Graphic Symbol	使用電磁閥型號 Solenoid Valve Families	操作 Operating		
			SOL "a"	SOL "b"	遙控口連接 Vent Connecting
2B3A		DSG-01-2B3A	/	OFF	連接到 "A" □ Connected to port "A"
				ON	連接到油箱 (無負載) Connected to tank (no-load)
2B3B		DSG-01-2B3B	/	OFF	連接到油箱 (無負載) Connected to tank (no-load)
				ON	連接到 "B" □ Connected to port "B"
2B2B		DSG-01-2B2B	/	OFF	關閉狀態 (溢流閥調整壓力) Closed state (relief valve setting pressure)
				ON	連接到 "B" □ Connected to port "B"
2B2		DSG-01-2B2	/	OFF	連接到 "A" □ Connected to port "A"
				ON	連接到 "B" □ Connected to port "B"

緩衝閥 Models with vent restrictor :



BSG-03.06.10



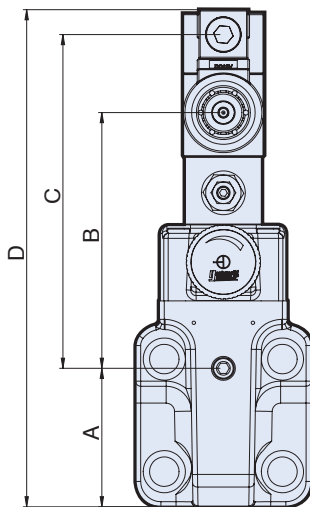
單位 Unit : mm

※ 底板尺寸圖，請參照 P.9
 ※ Plate size drawing, please refer to Page.9

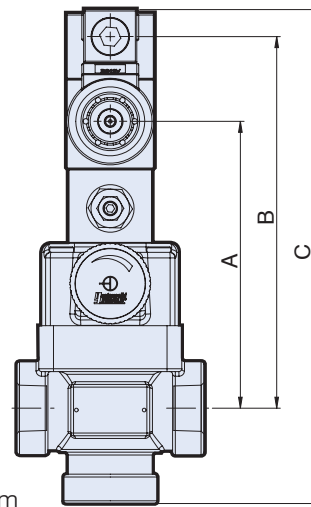
型號 Model	A	B	C	D	E	F	G	H	I	J	K	L
BSG-03	116	75	22	83	41.5	14.5	78	77.5	58.5	46	153	225.5
BSG-06	145	87.5	5.5	104	52	17	78	60	40	46	153	254
BSG-10	171	106	8	125	41.3	21.2	90	69.5	49.5	46	153	283

BSG+ST798 Models with vent restrictor

BST+ST798 Models with vent restrictor



單位 Unit : mm



單位 Unit : mm

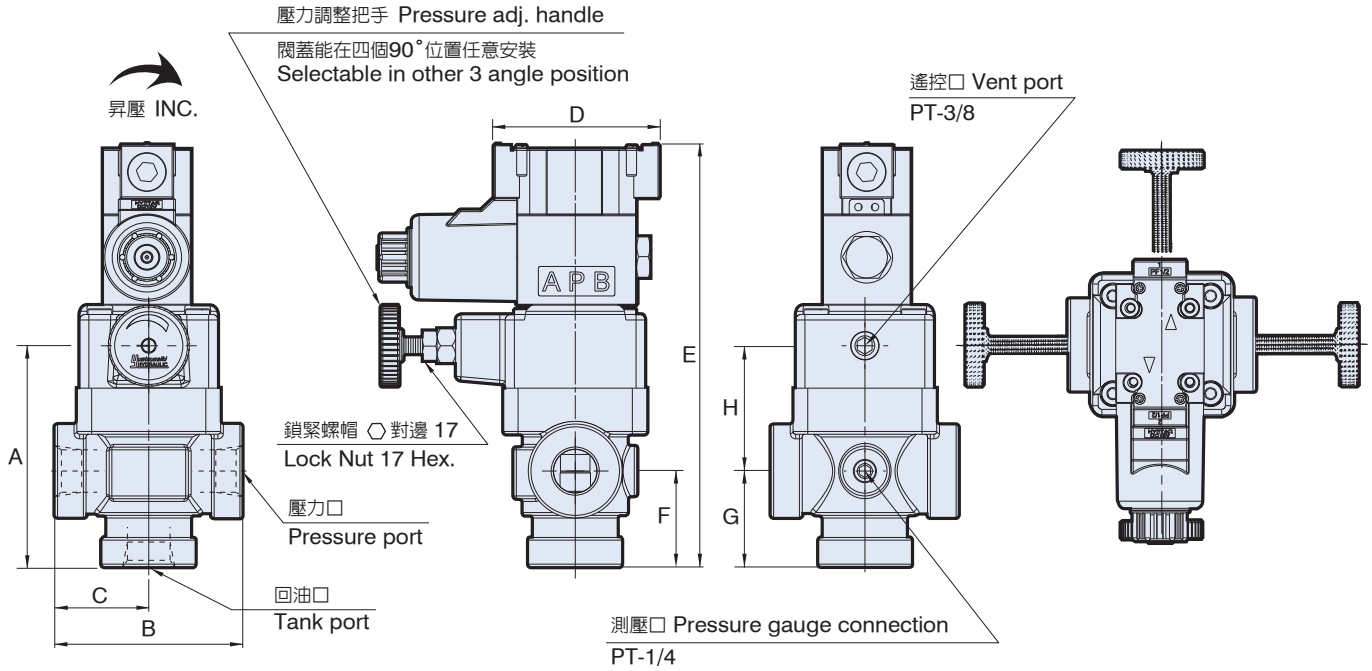
型號 Model	A	B	C	D
BSG-03	52.5	151.5	197.75	265.3
BSG-06	82	151.5	197.75	294.5
BSG-10	98	164.5	210.75	323.5

型號 Model	A	B	C
BST-04	157	203.25	269.5
BST-06	156.5	202.75	269.5
BST-10	165.5	211.75	310.5

壓力控制閥 (電磁引導動作型溢流閥)

PRESSURE CONTROL VALVE (Solenoid pilot operated relief valve)

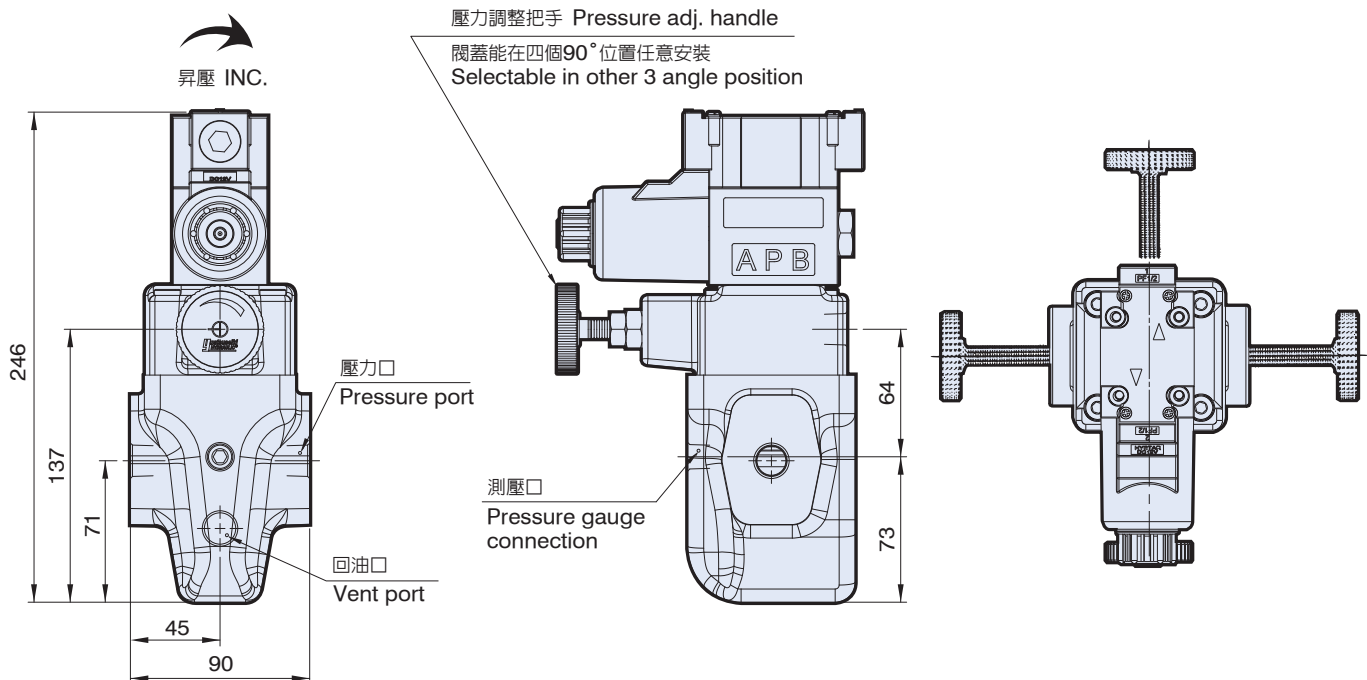
BST-04.06.10



單位 Unit : mm

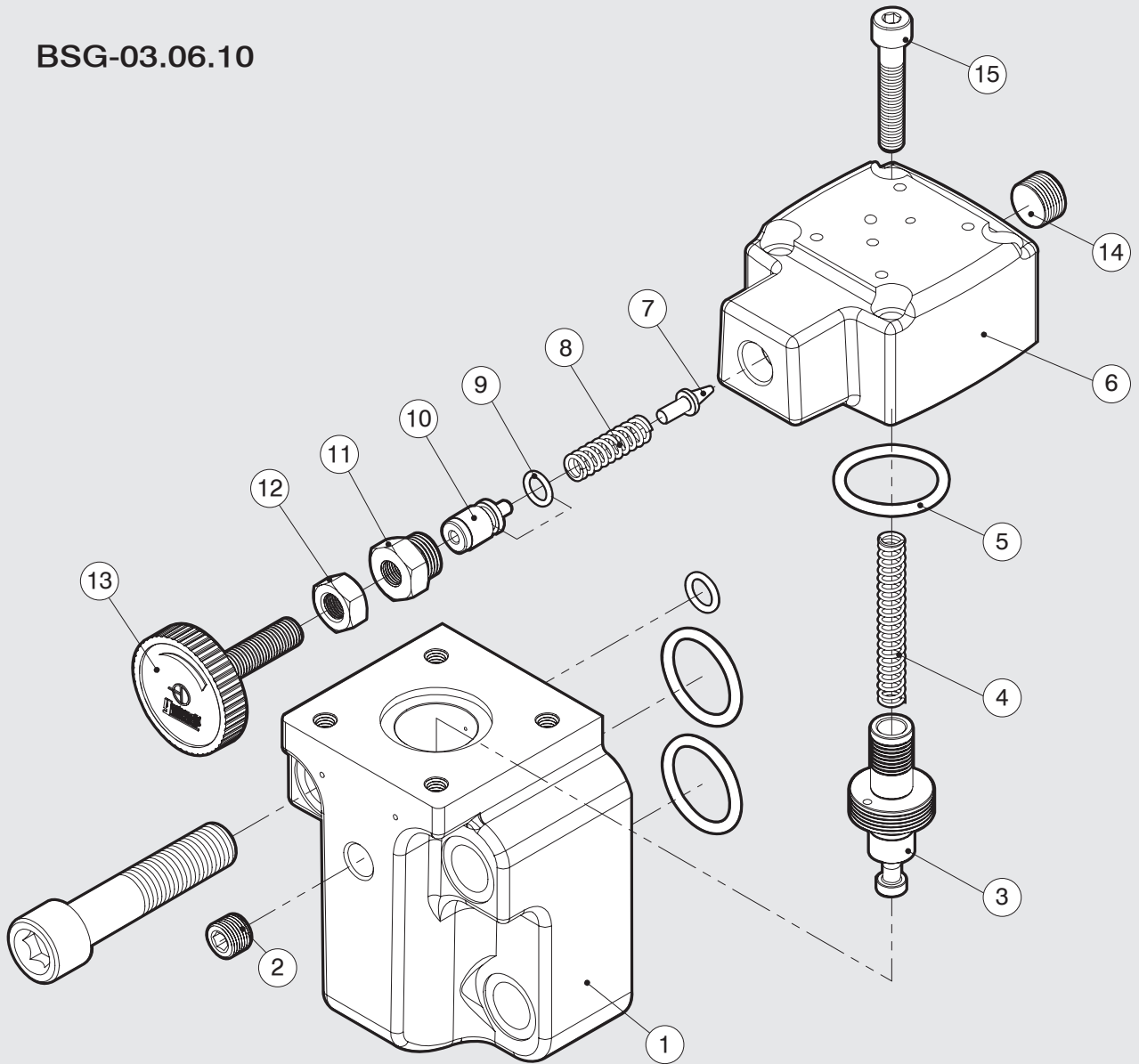
型號 Model	A	B	C	D	E	F	G	H			
BST-04	120	103	51.5	153	229	51.5	51.5	68.5			
BST-06	120	102	51	153	229	52	52	59.3			
BST-10	162.95	140	70	153	270	84	82	73.1			

BST-03-10



爆炸圖 How to order for a complete assembled valve

BSG-03.06.10

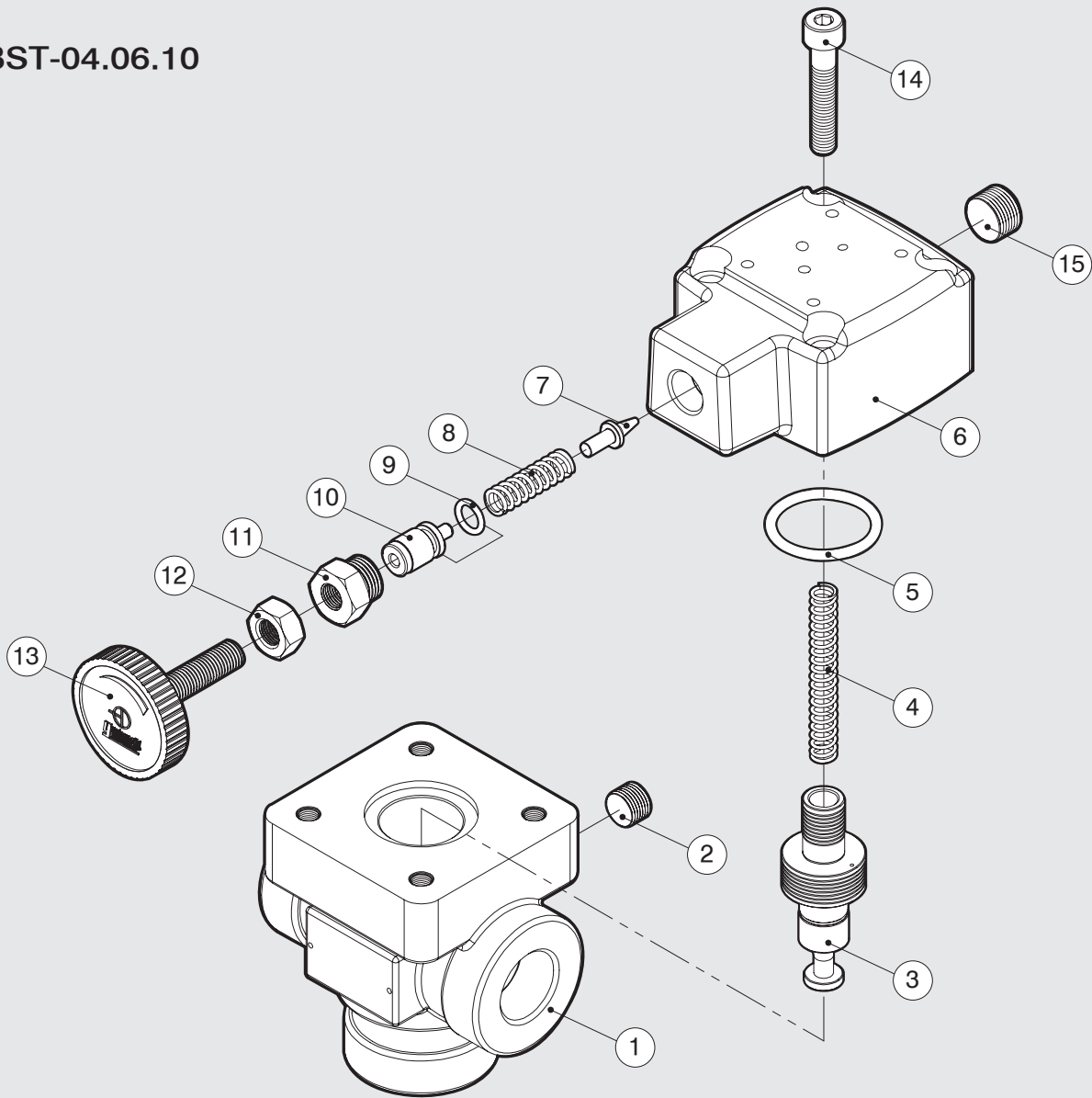


項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	心軸 Spool	1
4	彈簧 Spring	1
5	BSG-03 JIS B 2401-1B-P32	1
	BSG-06 JIS B 2401-1B-P32	1
	BSG-10 JIS B 2401-1B-P42	1
6	閥蓋 Cover	1
7	針閥 Pilot poppet	1
8	彈簧 Spring	1

項次編號 No.	品名 Name of parts	數量 Q
9	JIS B 2401-1A-P9	1
10	推桿 Push rod	1
11	把手螺母 Nut	1
12	六角螺母 Nut	1
13	壓力調整把手 Pressure adj. handle	1
14	PT 3/8	1
15	BSG-03 M8 x 45L	4
	BSG-06 M8 x 45L	4
	BSG-10 M10 x 50L	4

爆炸圖 How to order for a complete assembled valve

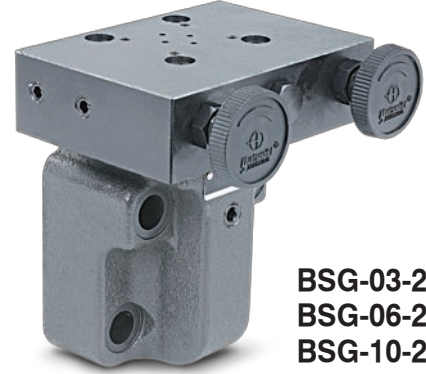
BST-04.06.10



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	心軸 Spool	1
4	彈簧 Spring	1
5	BST-04 JIS B 2401-1B-P32	1
	BST-06 JIS B 2401-1B-P32	1
	BST-10 JIS B 2401-1B-P44	1
6	閥蓋 Cover	1
7	針閥 Pilot poppet	1
8	彈簧 Spring	1

項次編號 No.	品名 Name of parts	數量 Q
9	JIS B 2401-1A-P9	1
10	推桿 Push rod	1
11	把手螺母 Nut	1
12	六角螺母 Nut	1
13	壓力調整把手 Pressure adj. handle	1
14	BST-04 M8 x 45L	4
	BST-06 M8 x 45L	4
	BST-10 M10 x 50L	4
15	PT 3/8	1

- BSG-03.06.10-2P, BST-03.06.10-2P 引導動作型溢流閥之結構，是由溢流閥和電磁換向閥組成。
- 電磁換向閥安裝在溢流閥上，並與溢流閥遙控口連通。
- 電磁線圈之電力信號可遙控系統之壓力，如與溢流閥遙控口連通，可提供 2 段或 3 段壓力控制。
- Pilot operated relief valve BSG-03.06.10-2P, BST-03.06.10-2P is composed of relief valve and solenoid valve.
- Solenoid valve is mounted on top of relief valve, and connected with vent port of relief valve.
- The power signal of solenoid can control the system pressure, if connect with vent port of relief valve, it will offer dual-level/ triple-level pressure control.



BSG-03-2P
BSG-06-2P
BSG-10-2P

型號意義 How to order :

BS G - 06 - ※ - 3C6 - 2P

1 2 3 4 5 6

1	系列號	Series
2	G: 板式連接 / T: 管式連接	G: SUB-Plate mounting / T: Threaded connections
3	口徑代號	Valve size 03:3/8", 04:1/2", 06:3/4", 10:1-1/4"
4	壓力調整範圍	Pressure adjusting range
5	電磁閥型號	Solenoid valve type
6	2P為二段壓力 3P為三段壓力	2P means to have dual-level pressure 3P means to have triple-level pressure

產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kg/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
引導動作型溢流閥二段式 Solenoid controlled relief valves-dual pressure	3/8	BSG-03-2P/3P	B: 7~70 C: 35~140 H: 70~210 2H: 140~315	100	7.8
	3/4	BSG-06-2P/3P		200	9.2
	1-1/4	BSG-10-2P/3P		400	13.6
	3/8	BST-03-10-2P/3P		100	6.4
	1/2	BST-04-2P/3P		100	6.4
	3/4	BST-06-2P/3P		200	6.4
	1-1/4	BST-10-2P/3P		400	11.5

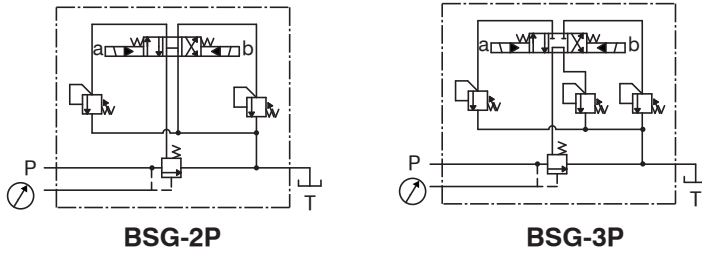
※ 重量為不含電磁閥之淨重。

※ The weight excludes the N. W. of solenoid valve.

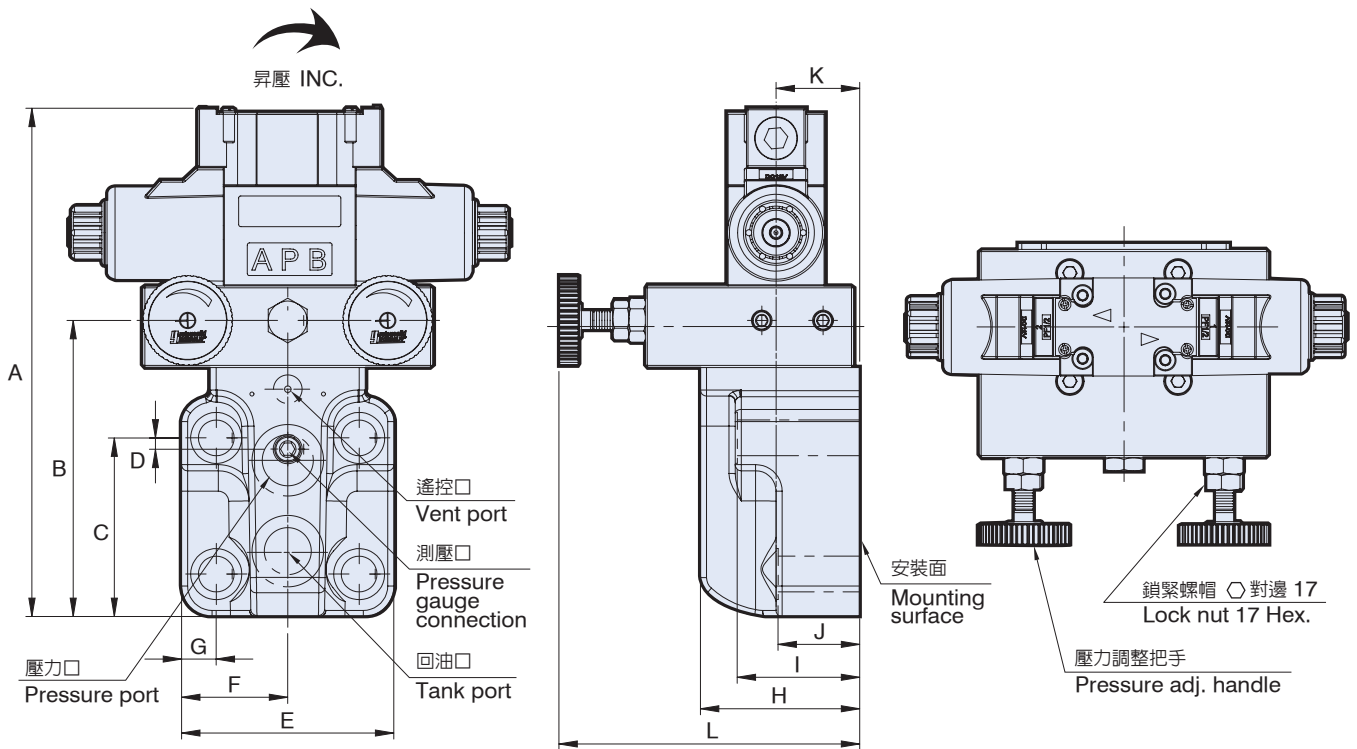
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring	
BSG-03-2P/3P	M12 x 70L 2 支 piece	M12 x 90L 2 支 piece	JIS B 2401-1B-P9 1 條 piece	JIS B 2401-1B-P20 2 條 piece
BSG-06-2P/3P	M16 x 55L 2 支 piece	M16 x 75L 2 支 piece	JIS B 2401-1B-P10A 1 條 piece	JIS B 2401-1B-P29 2 條 piece
BSG-10-2P/3P	M20 x 70L 2 支 piece	M20 x 90L 2 支 piece	JIS B 2401-1B-P10A 1 條 piece	JIS B 2401-1B-P36 2 條 piece

圖形符號 Graphic symbol :



BSG-03.06.10-2P

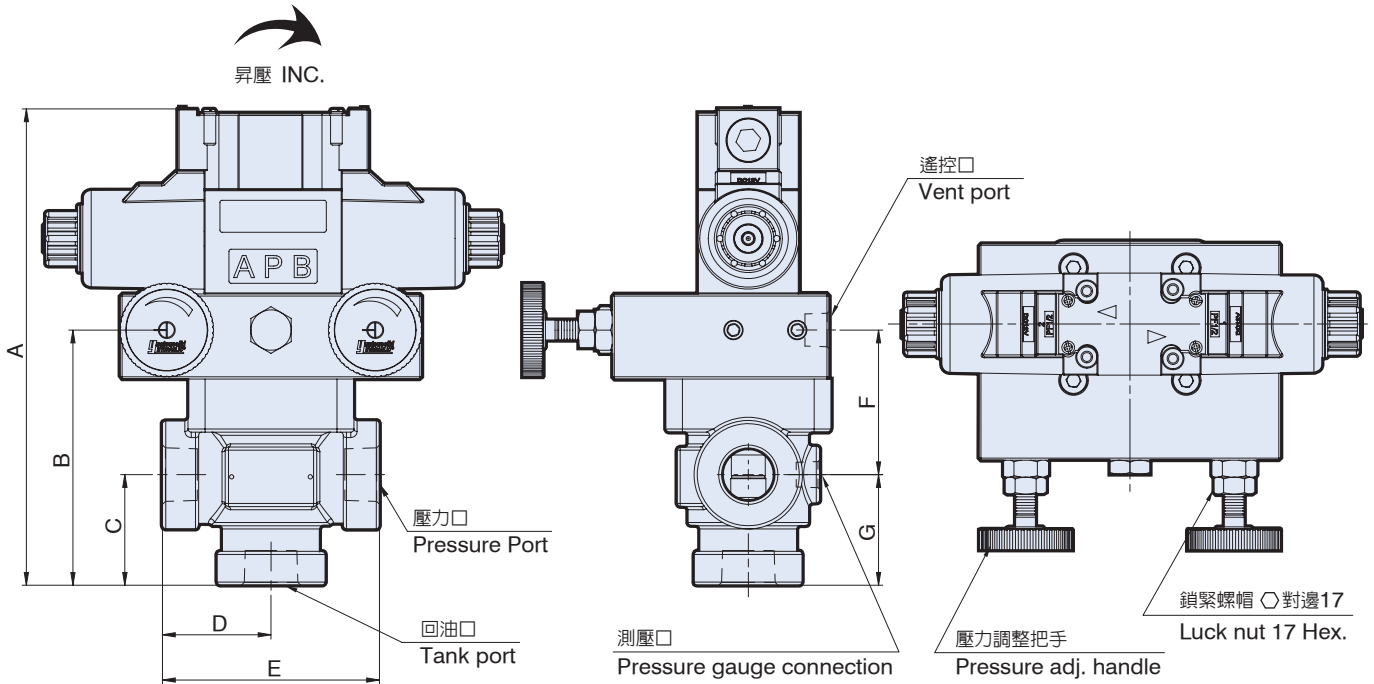


單位 Unit : mm

※ 底板尺寸圖，請參照 P.9
 ※ Plate size drawing, please refer to Page.9

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L
BSG-03-2P/3P	222	116	75	22	83	41.5	14.6	78	77.5	58.5	41	147.4
BSG-06-2P/3P	249	145	87.5	5.5	104	52	17	78	60	40	41	147.4
BSG-10-2P/3P	287	174	106	8	125	62.5	21.2	90	69.5	49.5	46	148.4

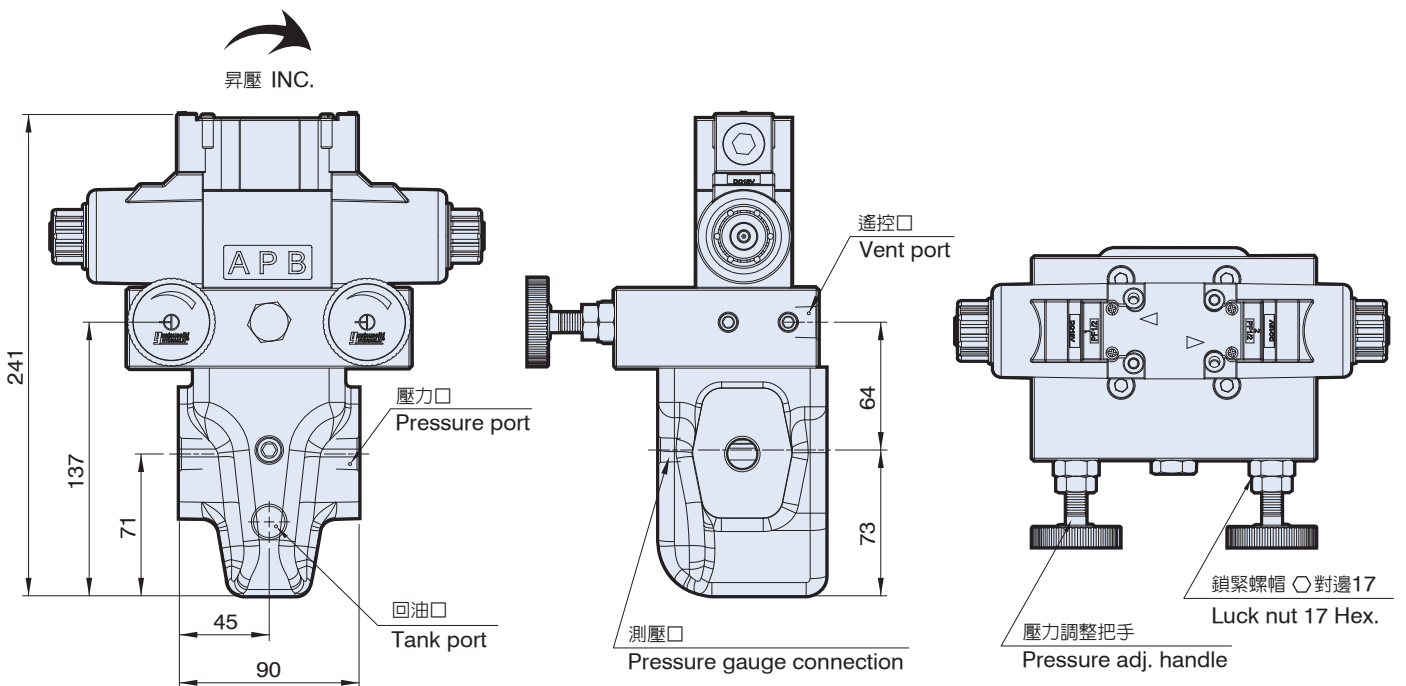
BST-04.06.10-2P



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L
BST-04-2P/3P	224	120	51.5	51.5	103	68.5	51.5					
BST-06-2P/3P	224	120	52	51	102	68	52					
BST-10-2P/3P	279	162.95	84	70	140	84	82					

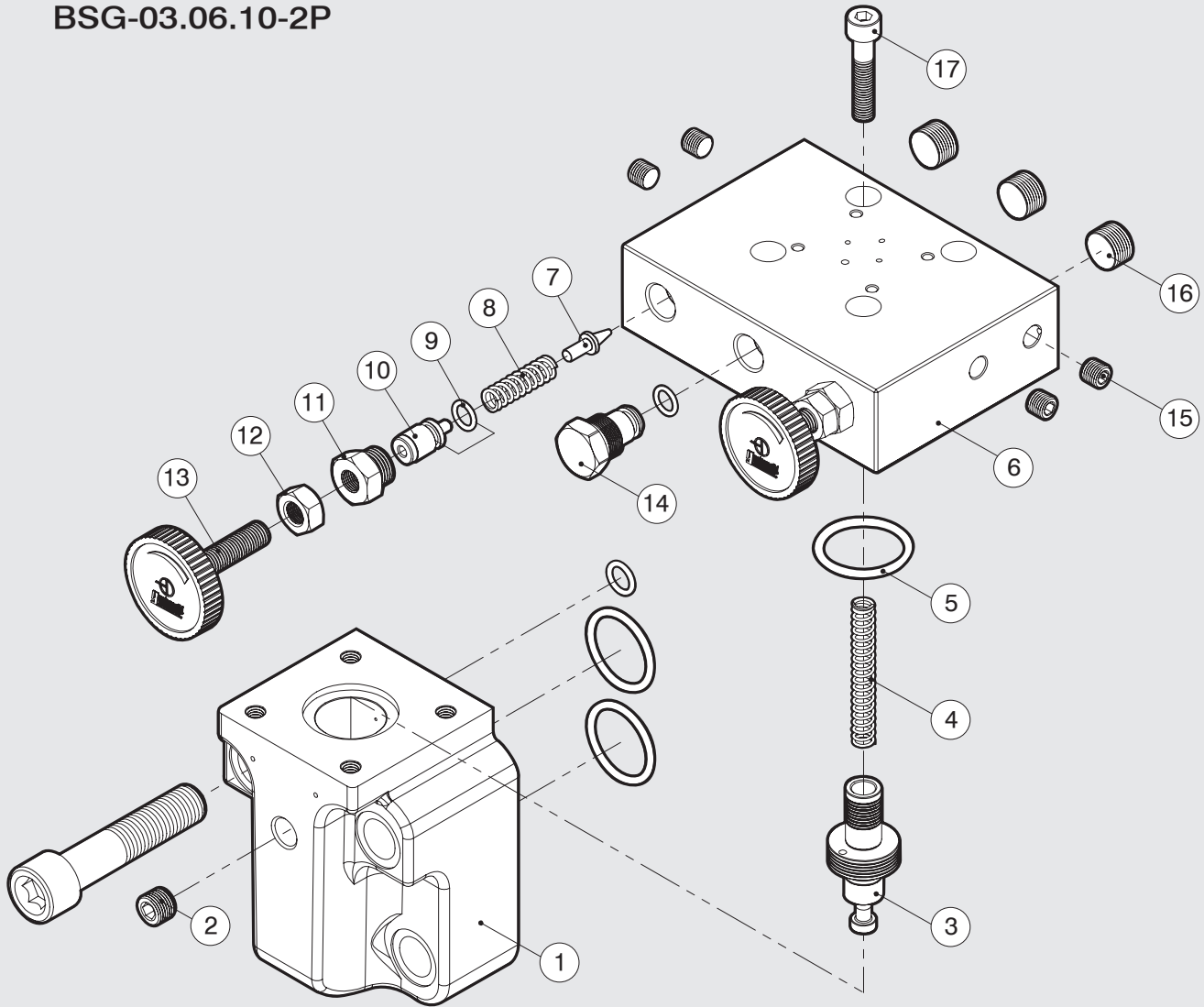
BST-03.04.06-10-2P



單位 Unit : mm

爆炸圖 How to order for a complete assembled valve

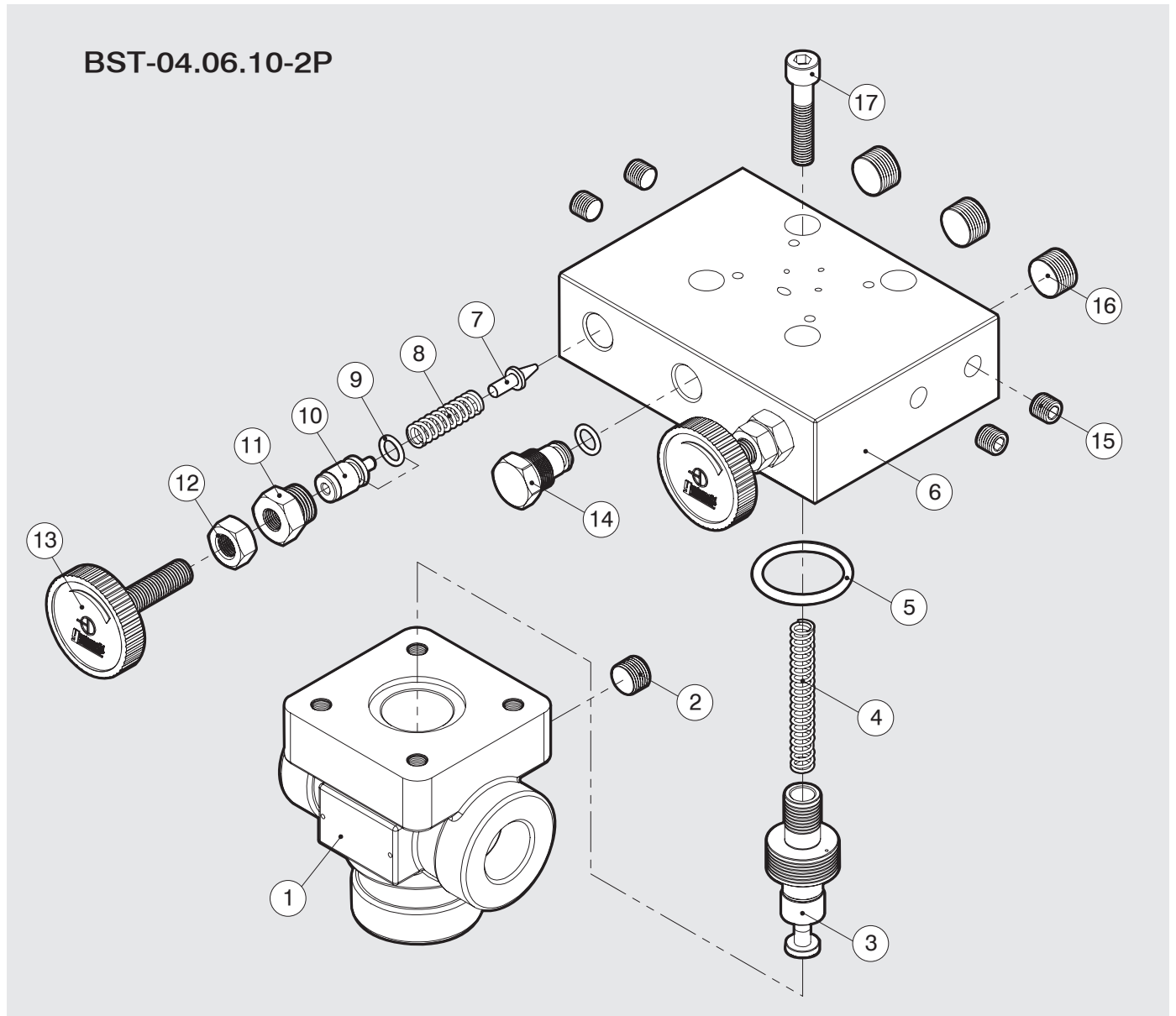
BSG-03.06.10-2P



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	心軸 Spool	1
4	彈簧 Spring	1
5	BSG-03 JIS B 2401-1B-P32	1
	BSG-06 JIS B 2401-1B-P32	1
	BSG-10 JIS B 2401-1B-P42	1
6	閥蓋 Cover	1
7	針閥 Pilot poppet	2
8	彈簧 Spring	2
9	JIS B 2401-1A-P9	3

項次編號 No.	品名 Name of parts	數量 Q
10	推桿 Push rod	2
11	把手螺母 Nut	2
12	六角螺母 Nut	2
13	壓力調整把手 Pressure adj. handle	2
14	六角螺帽 Nut	1
15	PT 1/8	4
16	PT 3/8	3
17	BSG-03 M8 x 40L	4
	BSG-06 M8 x 40L	4
	BSG-10 M10 x 55L	4

爆炸圖 How to order for a complete assembled valve



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	心軸 Spool	1
4	彈簧 Spring	1
5	BST-04 JIS B 2401-1B-P32	1
	BST-06 JIS B 2401-1B-P32	1
	BST-10 JIS B 2401-1B-P42	1
6	閥蓋 Cover	1
7	針閥 Pilot poppet	2
8	彈簧 Spring	2
9	JIS B 2401-1A-P9	3

項次編號 No.	品名 Name of parts	數量 Q
10	推桿 Push rod	2
11	把手螺母 Nut	2
12	六角螺母 Nut	2
13	壓力調整把手 Pressure adj. handle	2
14	六角螺帽 Nut	1
15	PT 1/8	4
16	PT 3/8	3
17	BST-04 M8 x 40L	4
	BST-06 M8 x 40L	4
	BST-10 M10 x 55L	4

壓力控制閥 (電磁式引導動作型溢流閥低噪音型)

PRESSURE CONTROL VALVE (Low noise type solenoid pilot operated relief valve)

- S-BSG 系列電磁式引導動作型，是由溢流閥和電磁換向閥組成。
- 電磁閥安裝在溢流閥上，並與溢流閥遙控口連通。
- 電磁線圈之電力信號可遙控系統之壓力。
- 如與遙控溢流閥連接，可提供 2 級或 3 級壓力控制。
- 此系列溢流閥具低噪音特性。
- Solenoid controlled relief valve S-BSG series is composed of relief and solenoid valve.
- Solenoid valve is mounted on top of relief valve, and connected with vent port of relief valve.
- The power signal of solenoid can control the system pressure.
- If connect with vent port of relief valve, it will offer dual-level / triple-level pressure control.
- Relief valve designed with low noise.



S-BSG-03.06.10

壓力控制閥
電磁式引導動作型溢流閥低噪音型
Pressure Control Valve (Low noise type solenoid pilot operated relief valve)

型號意義 How to order :

S - BS G - 06 - ※ - 2B2 - R

1 2 3 4 5 6 7

1	低噪音型	Low noise
2	系列號	Series
3	板式連接	SUB-Plate mounting
4	口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
5	壓力調整範圍	Pressure adjusting range
6	電磁閥型號	Solenoid valve type
7	壓力把手位置	Pressure handle position
	R: 把手朝壓力口方向 (標準品・無記號)	R: Handle is facing to the pressure port (standard, no remarked)
	L: 把手朝回油口方向	L: Handle is facing to the tank port

產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
電磁式引導動作型溢流閥低噪音型 Low noise type solenoid pilot operated relief valve	3/8	S-SBG-03	B: 7~70 C: 35~140	100	4.8
	3/4	S-SBG-06	H: 70~210	200	6.1
	1-1/4	S-SBG-10	2H: 140~315	400	9.9

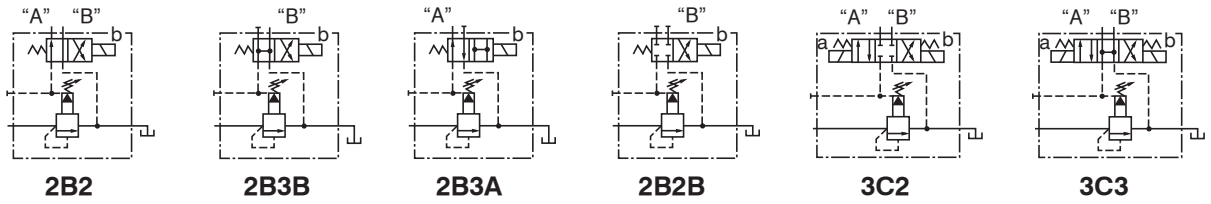
※ 重量為不含電磁閥之淨重。

※ The weight excludes the N. W. of solenoid valve.

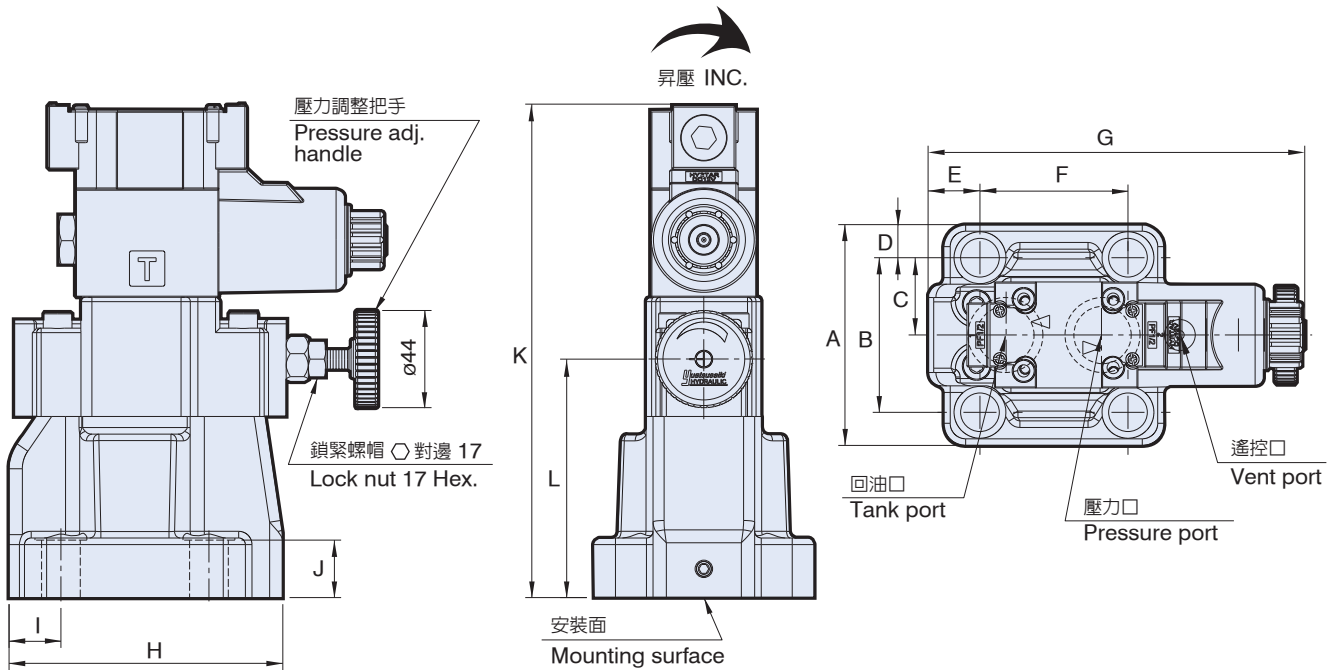
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
S-SBG-03	M12 x 40L 4 支 piece	JIS B 2401-1B-P9 1 條 piece JIS B 2401-1B-P20 2 條 piece
S-SBG-06	M16 x 45L 4 支 piece	JIS B 2401-1B-P10A 1 條 piece JIS B 2401-1B-P28 2 條 piece
S-SBG-10	M20 x 55L 4 支 piece	JIS B 2401-1B-P10A 1 條 piece JIS B 2401-1B-P36 2 條 piece

圖形符號 Graphic symbol :



S-BSG-03.06.10



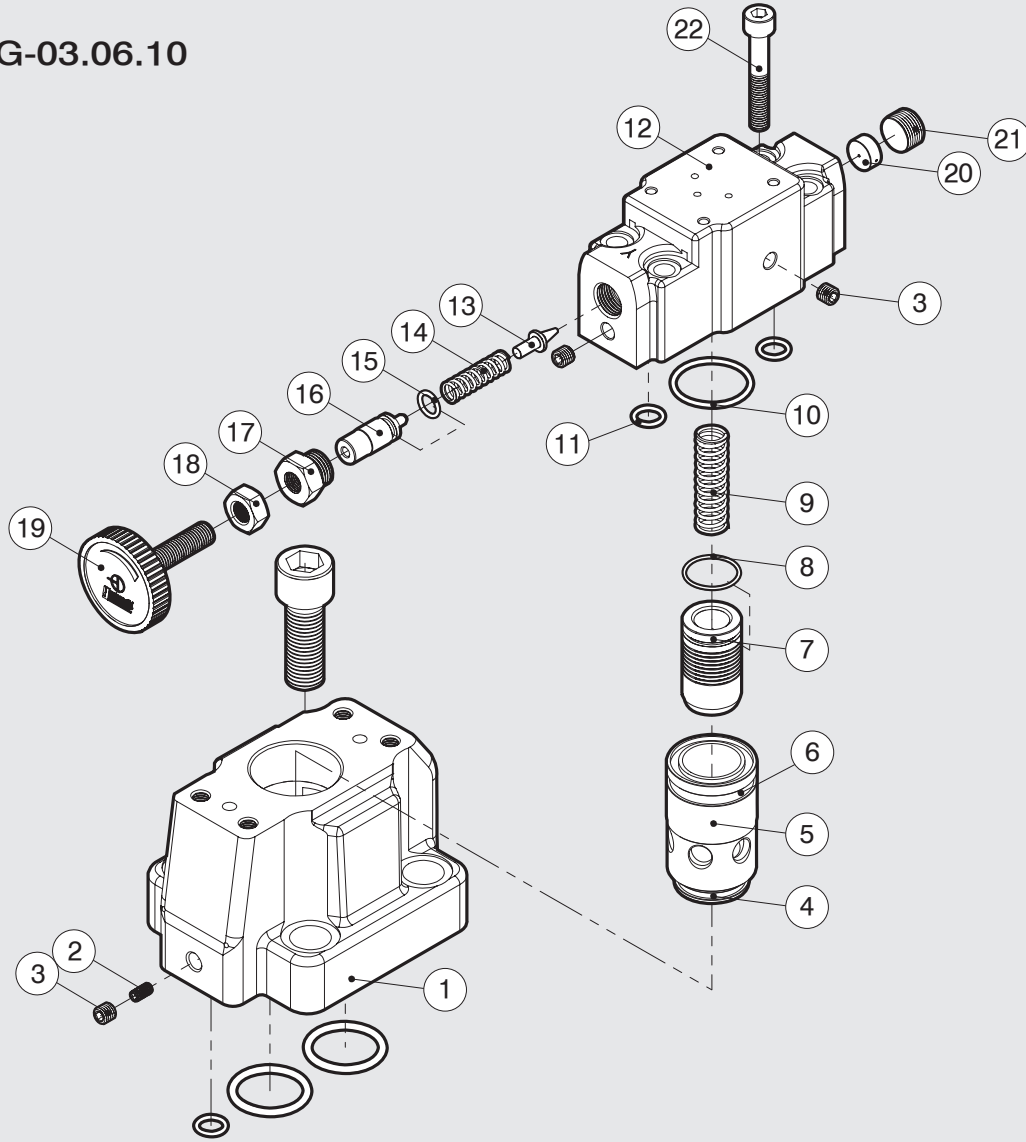
單位 Unit : mm

※ 底板尺寸圖，請參照 P.23
 ※ Plate size drawing, please refer to Page.23

型號 Model	A	B	C	D	E	F	G	H	I	J	K
S-BSG-03	78	53.8	27	12	34.6	53.8	168.5	107	26.5	23	221
S-BSG-06	100	70	35	15	23.5	66.7	171	124	23.5	26	223
S-BSG-10	127	82.6	41.3	22.2	20.5	89	187	155	20.5	36	232

爆炸圖 How to order for a complete assembled valve

S-BSG-03.06.10



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	M5 x 8L通孔螺絲 Through hole screw	1
3	PT 1/16	3
4	SBSG-03 2-024 x 1, 8-024 x 1	1
	SBSG-06 2-024 x 1, 8-024 x 1	1
	SBSG-10 JIS B 2401-1A-P42	1
5	槍子閥座 Check valve seat	1
6	SBSG-03 2-028 x 1, 8-028 x 2	2
	SBSG-06 2-028 x 1, 8-028 x 2	2
	SBSG-10 JIS B 2401-1A-P44	1
7	槍子閥 Check valve	1
8	SBSG-03 SM-22	1
	SBSG-06 SM-22	1
	SBSG-10 無 None	
9	彈簧 Spring	1

項次編號 No.	品名 Name of parts	數量 Q
10	SBSG-03 2-123	1
	SBSG-06 2-123	1
	SBSG-10 JIS B 2401-1A-P38	1
11	JIS B 2401-1A-P10A	2
12	閥蓋 Cover	1
13	針閥 Pilot poppet	1
14	彈簧 Spring	1
15	JIS B 2401-1A-P9	1
16	推桿 Push rod	1
17	把手螺母 Nut	1
18	六角螺母 Nut	1
19	壓力調整把手 Pressure adj. handle	1
20	消音墊片 Washer for noise reduction	1
21	PT 3/8	1
22	SBSG-03.06 M8 x 50L	4
	SBSG-10 M8 x 60L	4

- DBW 系列是電磁式引導動作型溢流閥之結構，是由溢流閥與電磁換向閥組成。
- 低噪音特性，操作穩定性高。
- 保護泵和控制閥以免超壓，並使液壓系統維持恆定壓力。
- 利用卸油口實現遠程控制和卸載應用。
- 此系列溢流閥具有低噪音特性。
- DBW series is a configuration of solenoid type pilot operated relief valve, composed of relief valve and solenoid operated directional control valve.
- Low noise and high operation stability.
- It protects the pump and control valve avoiding the pressure beyond, and makes hydraulic system to keep the invariable pressure.

- It uses the drain port to apply for remote control and unloading.
- Type designed with low noise.


DBW-10. 20. 30

型號意義 How to order :

DBW - 20 - H - 2B2

1 2 3 4

1	系列號	Series
2	口徑代號	Valve size 10:3/8", 20:3/4", 30:1-1/4"
3	壓力調整範圍	Pressure adjusting range
4	電磁閥型號	Solenoid valve type

產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	最高使用壓力 Max. Operating Pressure (Kg)	重量 Weight (Kg)	
電磁引導動作型溢流閥 Solenoid control relief valve	3/8	DBW-10	C: 35~140 2H: 140~315	100	320	3.3	
	3/4	DBW-20		200			4.4
	1-1/4	DBW-30		400			6.5

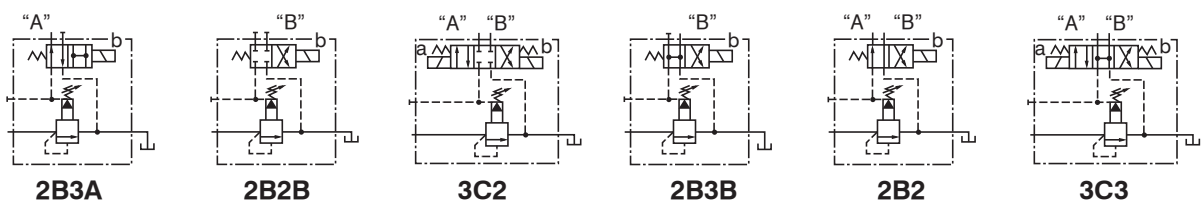
※ 重量為不含電磁閥之淨重。

※ The weight excludes the N. W. of solenoid valve.

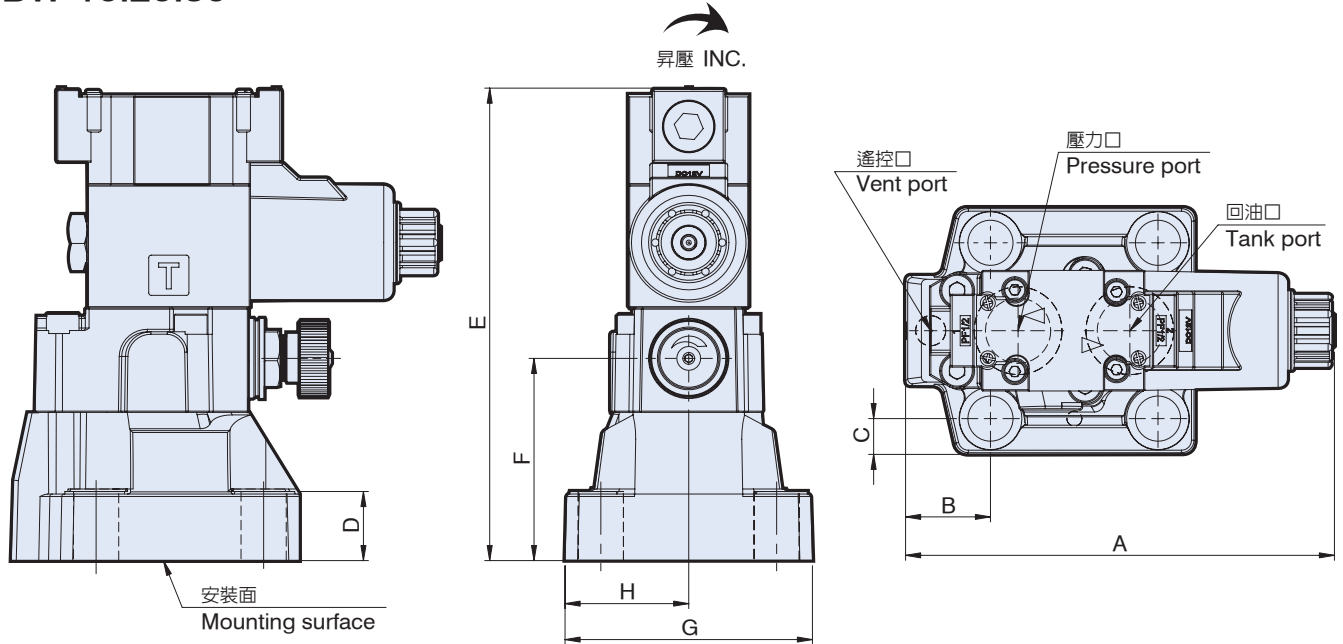
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
DBW-10	M12 x 40L 4 支 piece	JIS 2401-1B-P9 1 條 piece JIS 2401-1B-P18 2 條 piece
DBW-20	M16 x 45L 4 支 piece	JIS 2401-1B-P9 1 條 piece JIS 2401-1B-P29 2 條 piece
DBW-30	M20 x 55L 4 支 piece	JIS 2401-1B-P9 1 條 piece JIS 2401-1B-P36 2 條 piece

圖形符號 Graphic symbol :



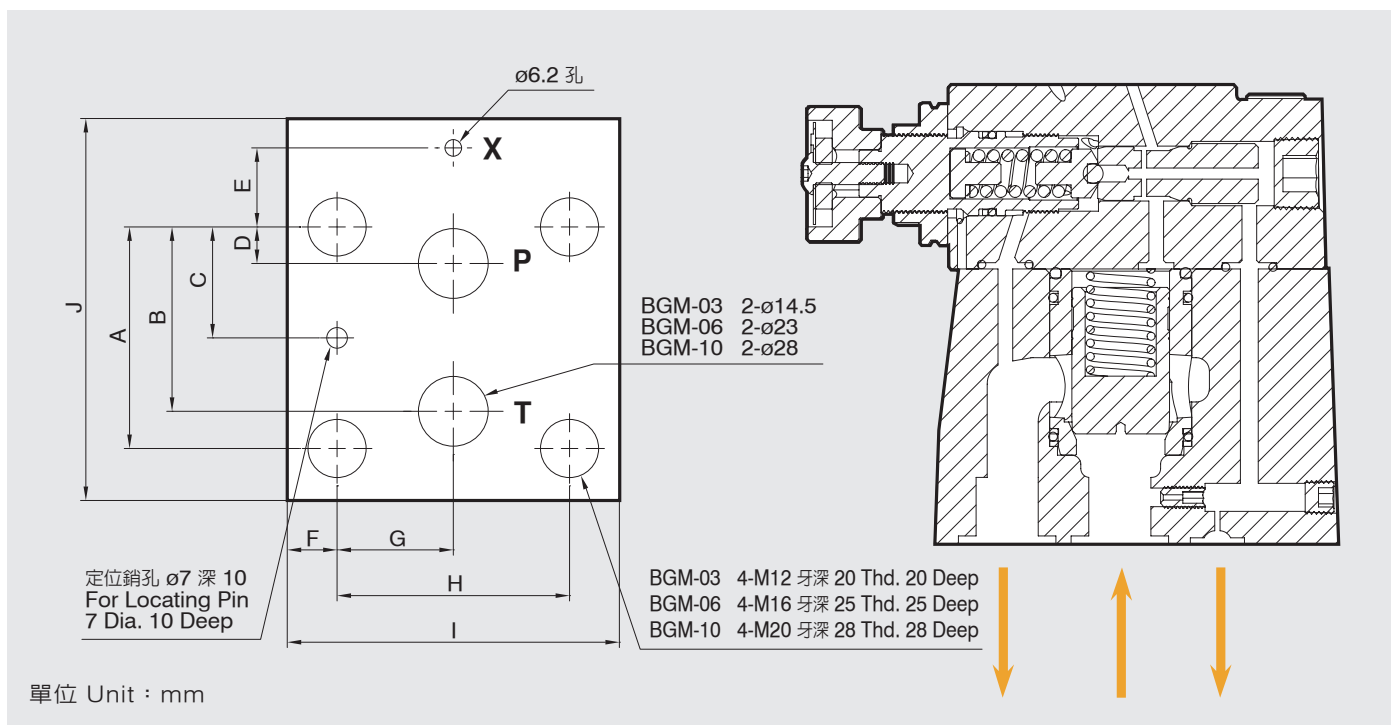
DBW-10.20.30



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H				
DBW-10	164.25	27.2	12.1	27	190.6	83.5	78	39				
DBW-20	170.75	33.8	14.25	27.5	187.6	80.5	98.5	49.25				
DBW-30	184.2	42	15.9	29	190.6	83.5	114.5	57.25				

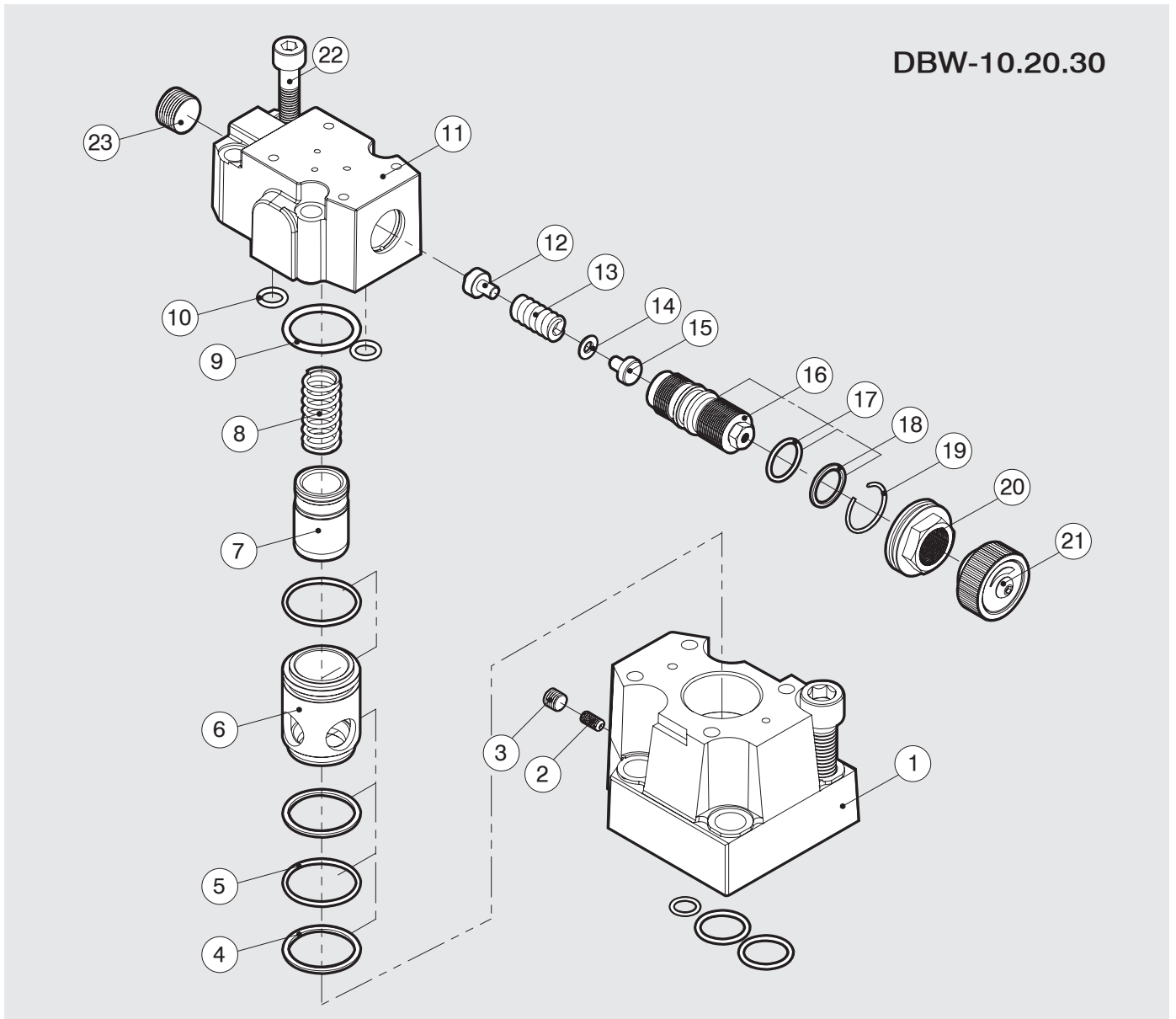
底板尺寸圖 Bottom plate dimensions



單位 Unit : mm

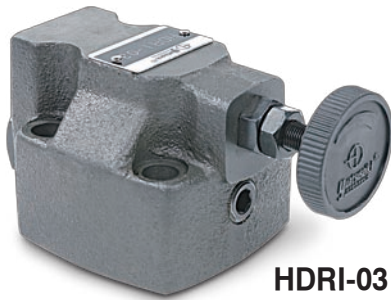
型號 Model	A	B	C	D	E	F	G	H	I	J		
DBW-10 (BGM-03)	53.8	47.4	22	22	0	12.1	26.9	53.8	78	91		
DBW-20 (BGM-06)	66.7	55.5	33.4	11	23.8	14.25	35	70	98.5	115.5		
DBW-30 (BGM-10)	90	76.2	44.5	12.7	31.8	15.9	41.35	82.7	114.5	150		

爆炸圖 How to order for a complete assembled valve



項次編號 No.	品名 Name of parts	數量 Q	項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1	13	彈簧 Spring	1
2	M5 x 8L 通孔螺絲 Through hole screw	1	14	墊片 Washer	1
3	PT 1/16	1	15	彈簧固定墊圈 Spring retainer	1
4	8-024	2	16	調整螺桿 Adj. screw	1
5	SM-29	2	17	2-016	1
6	槍子閥座 Check valve seat	1	18	8-016	1
7	槍子閥 Check valve	1	19	扣簧 Retainer	1
8	彈簧 Spring	1	20	固定螺帽 Nut	1
9	2-121	1	21	壓力調整把手 Pressure adj. handle	1
10	JIS B 2401-1B-P9	2	22	M8 x 40L	4
11	閥蓋 Cover	1	23	PT 3/8	1
12	球閥座 Check valve seat	1			

- HDRI 之產品採用引導動作型設計，具低噪音特性。提供油壓系統之穩壓功能。
- HDRI is designed with pilot, and low noise. Regulator function of the hydraulic system.



HDRI-03



HDRI-03-G



HDRI-03-T

型號意義 How to order :

HDRI - 03 - ※

1 2 3

1 系列號	Series
2 口徑代號	Valve size 03:3/8"
3 壓力調整範圍	Pressure adjusting range

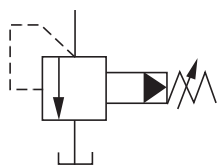
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
引導動作型溢流閥 Pilot operated relief valves	3/8	HDRI-03	B: 7~70	100	3
		HDRI-03-G	C: 35~140		3.5
		HDRI-03-T	H: 70~210 2H: 140~315		3

附件 Attachment :

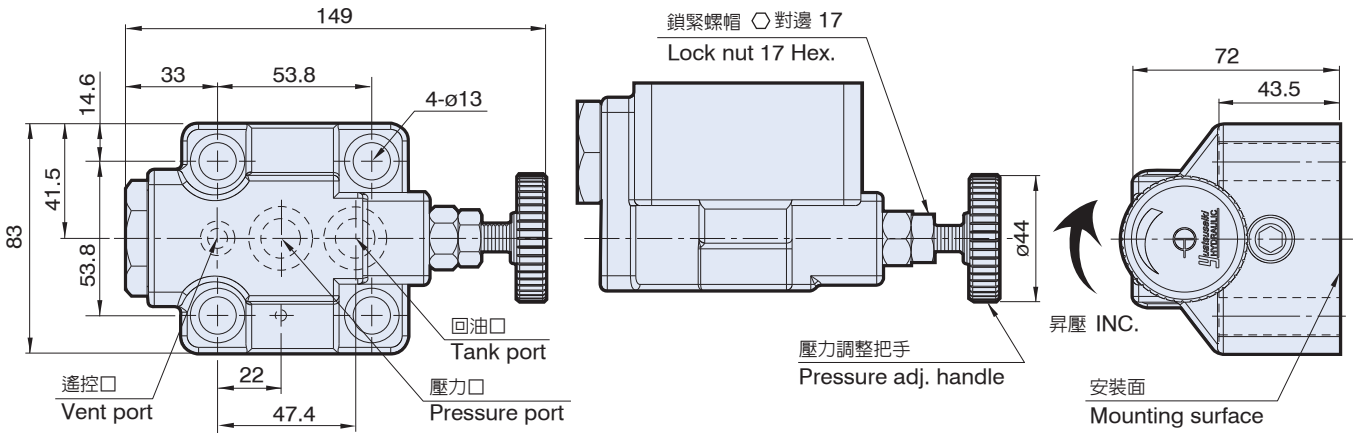
型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring	
HDRI-03	M12 x 55L	4 支 piece	JIS B 2401-1B-P9 1 條 piece	JIS B 2401-1B-P18 2 條 piece
HDRI-03-G	M12 x 55L	4 支 piece	JIS B 2401-1B-P9 1 條 piece	JIS B 2401-1B-P18 2 條 piece

圖形符號 Graphic symbol :



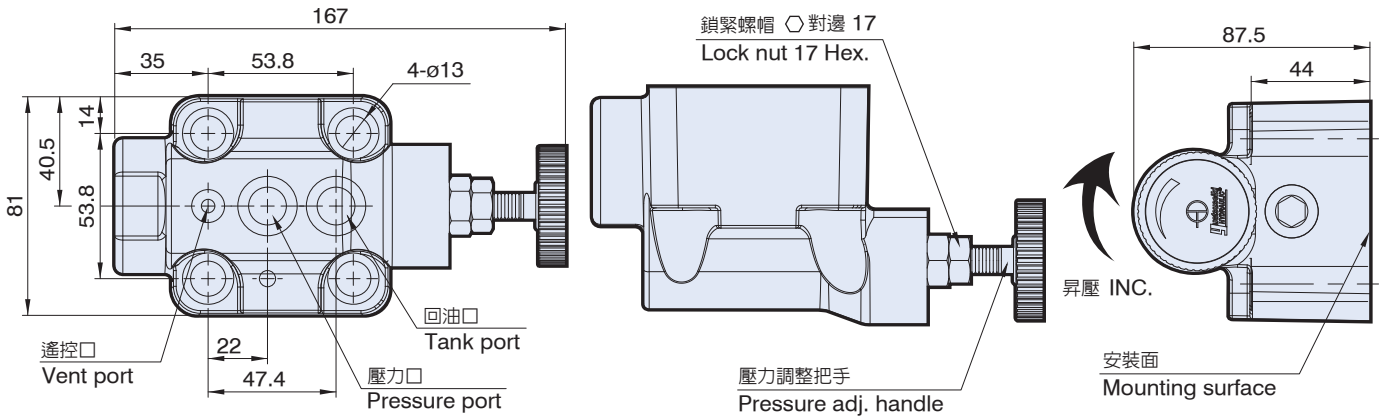
HDRI

HDRI-03



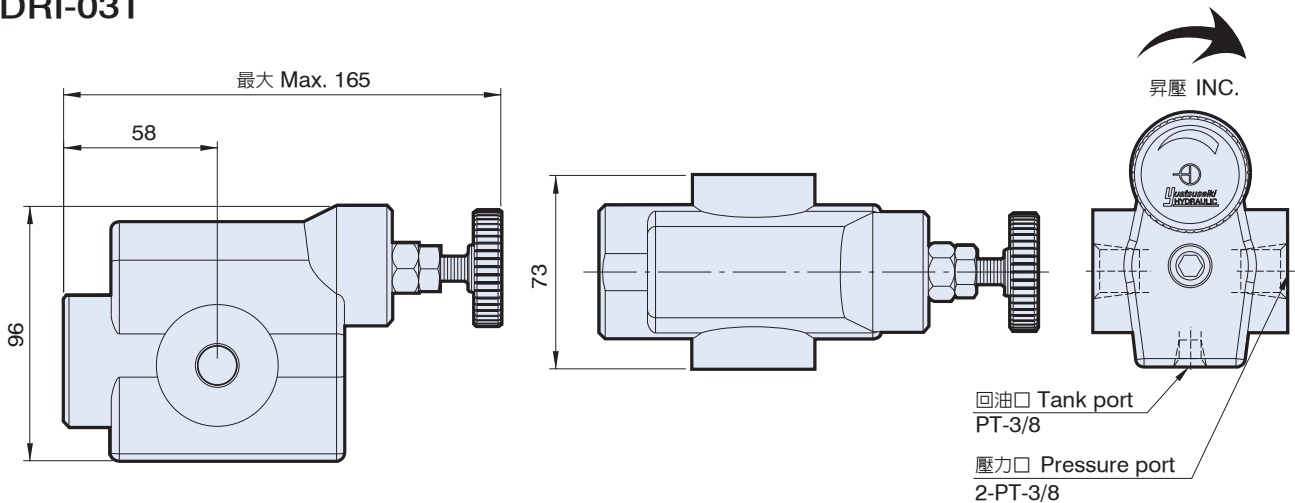
單位 Unit : mm

HDRI-03G



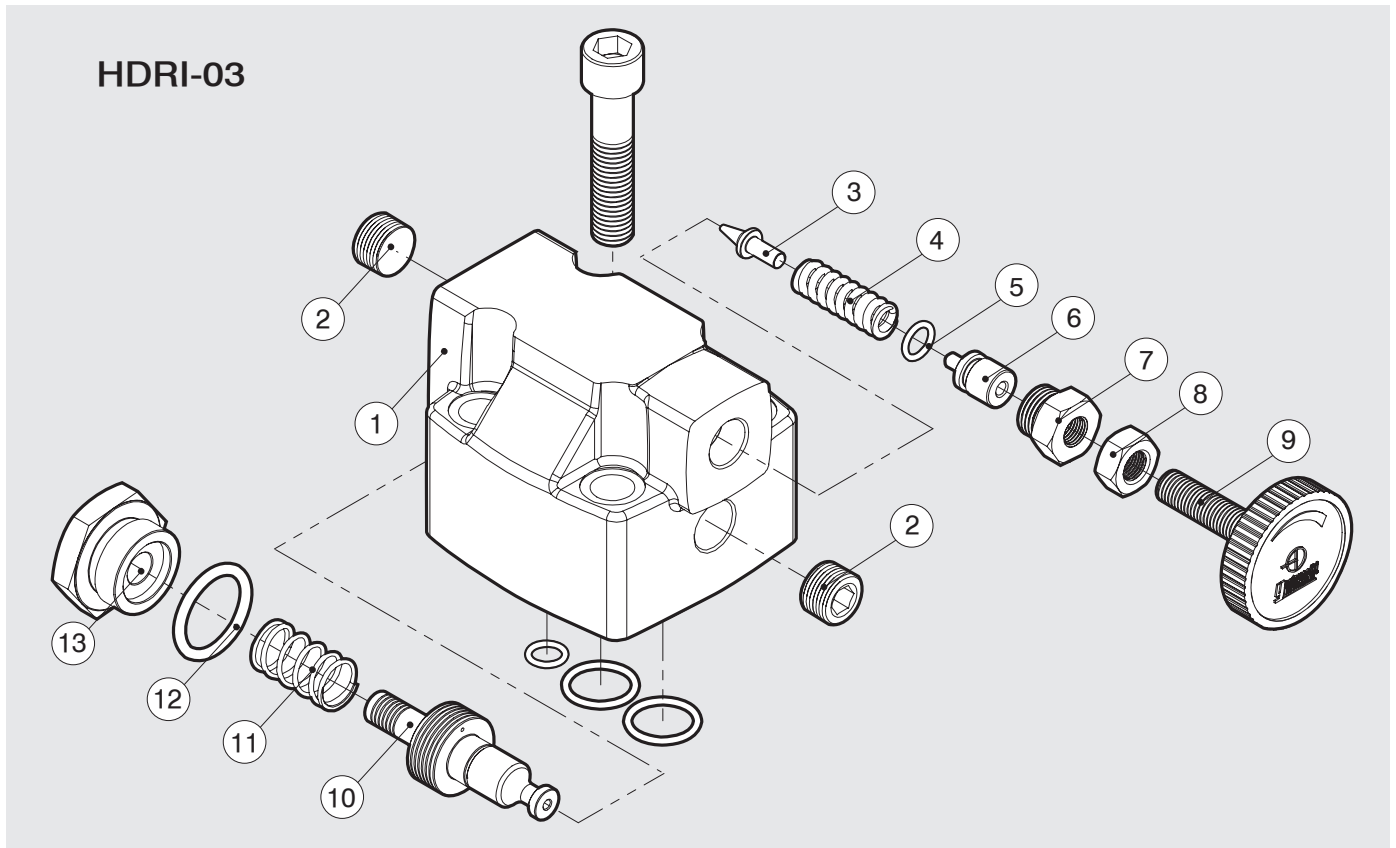
單位 Unit : mm

HDRI-03T



單位 Unit : mm

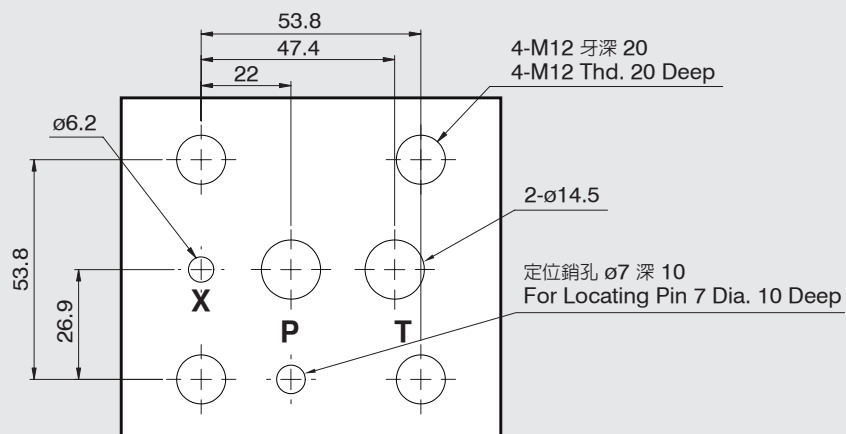
爆炸圖 How to order for a complete assembled valve



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	HDRI-03 PT 3/8	2
	HDRI-03-G PT 1/2	
	HDRI-03-T PT 3/8	
3	針閥 Pilot poppet	1
4	彈簧 Spring	1
5	JIS B 2401-1A-P9	1
6	推桿 Push rod	1

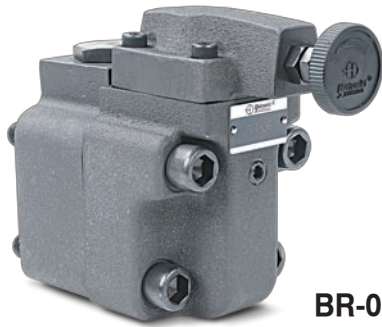
項次編號 No.	品名 Name of parts	數量 Q
7	把手螺母 Nut	1
8	六角螺母 Nut	1
9	壓力調整把手 Pressure adj. handle	1
10	心軸 Spool	1
11	彈簧 Spring	1
12	JIS B 2401-1A-P24	1
13	螺母 Nut	1

底板尺寸圖 Bottom plate dimensions



單位 Unit : mm

- BR 系列背壓閥，可避免機械機構本身重量自然降落，以及使用在有背壓產生之處。
- BR 系列背壓閥之設計可改進下列缺點：
 - 目前深紋型壓床所採用的防止機構自重降落的平衡閥反應靈敏度低，且噪音大。
 - 塑膠射出成型機之背壓控制不準，壓力損失太大。
- Counter balance valve BR series can avoid the falling of mechanism due to heavy from itself, and using in position occur the back pressure.
- Counter balance valve can improve the following situation:
 - The counter balance valve on deep pattern type press response late and noise.
 - The bad control for back pressure of plastic inject forming machine makes too much loss on pressure.


BR-03.06.10

型號意義 How to order :

BR - 06 - ※

1 2 3

1 系列號	Series
2 口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
3 壓力調整範圍	Pressure adjusting range

※ BR-06：一體型與分離型。

※ BR-06: Integrated and separation type.

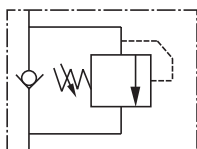
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
背壓閥 Counter balance valve	3/8	BR-03	B: 7~70	100	7.4
	3/4	BR-06	C: 35~140	200	11
	1-1/4	BR-10	H: 70~210	400	18.7

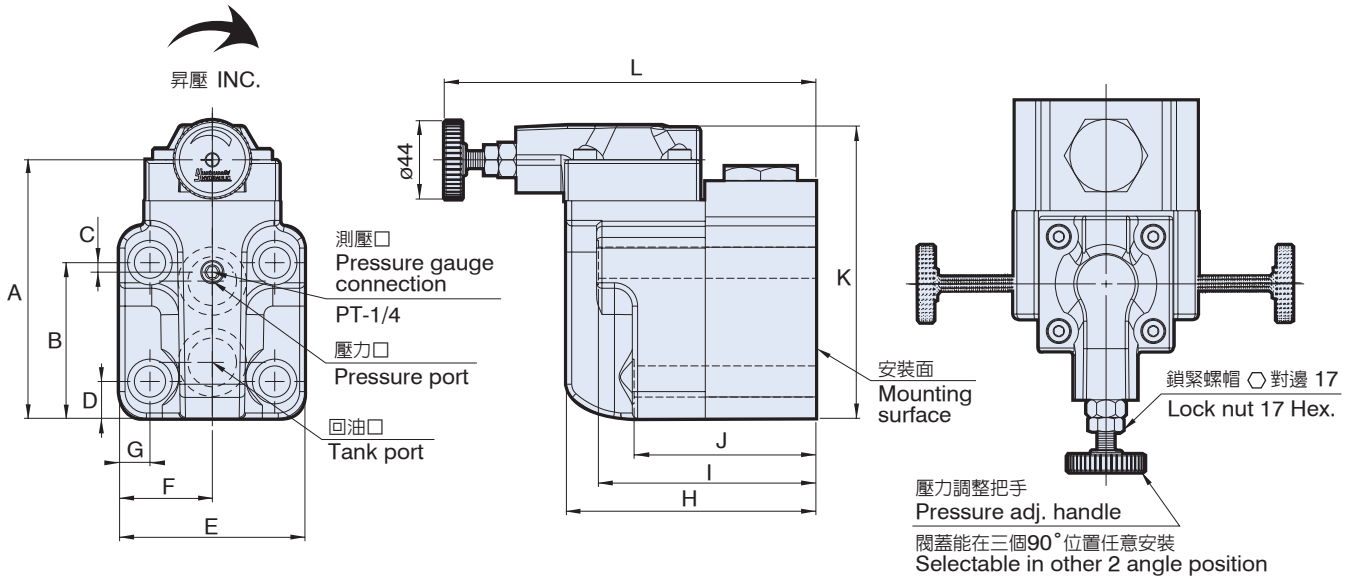
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring	
BR-03	M12 x 110L 2支 piece	M12 x 130L 2支 piece	JIS B 2401-1B-P9 1條 piece	JIS B 2401-1B-P20 2條 piece
BR-06-分離型	M16 x 120L 2支 piece	M16 x 140L 2支 piece	JIS B 2401-1B-P10A 1條 piece	JIS B 2401-1B-P29 2條 piece
BR-06-一體型	M16 x 115L 2支 piece	M16 x 105L 2支 piece	JIS B 2401-1B-P10A 1條 piece	JIS B 2401-1B-P29 2條 piece
BR-10	M20 x 140L 2支 piece	M20 x 160L 2支 piece	JIS B 2401-1B-P10A 1條 piece	JIS B 2401-1B-P36 2條 piece

圖形符號 Graphic symbol :


BR

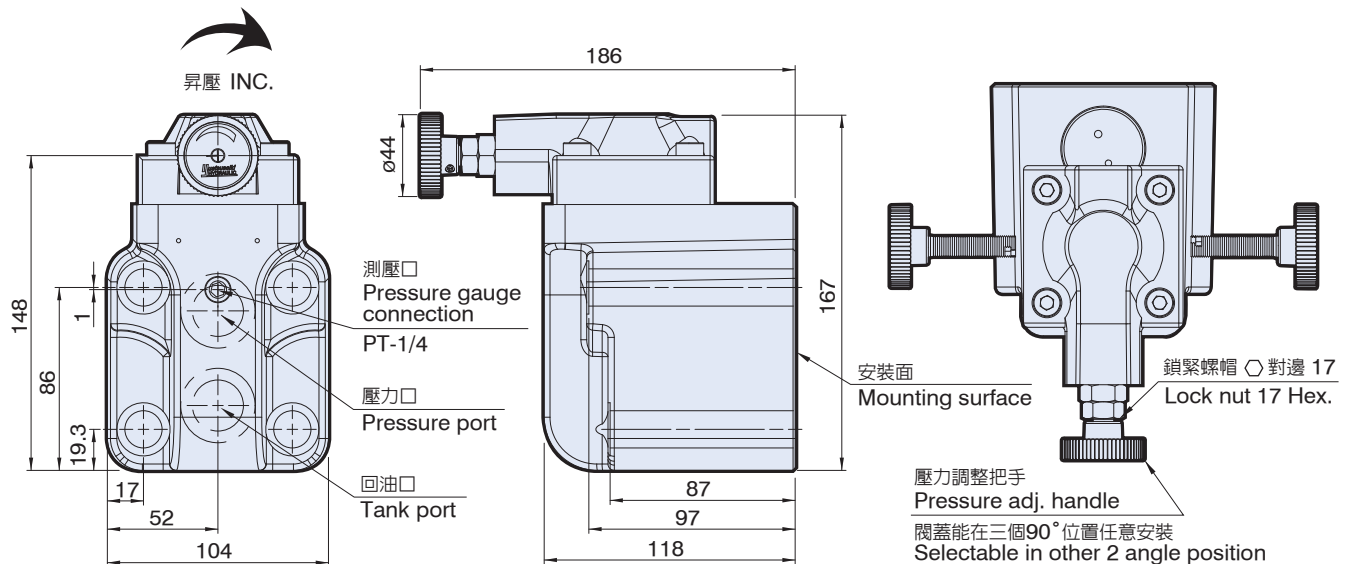
BR-03.06.10-分離型



單位 Unit : mm

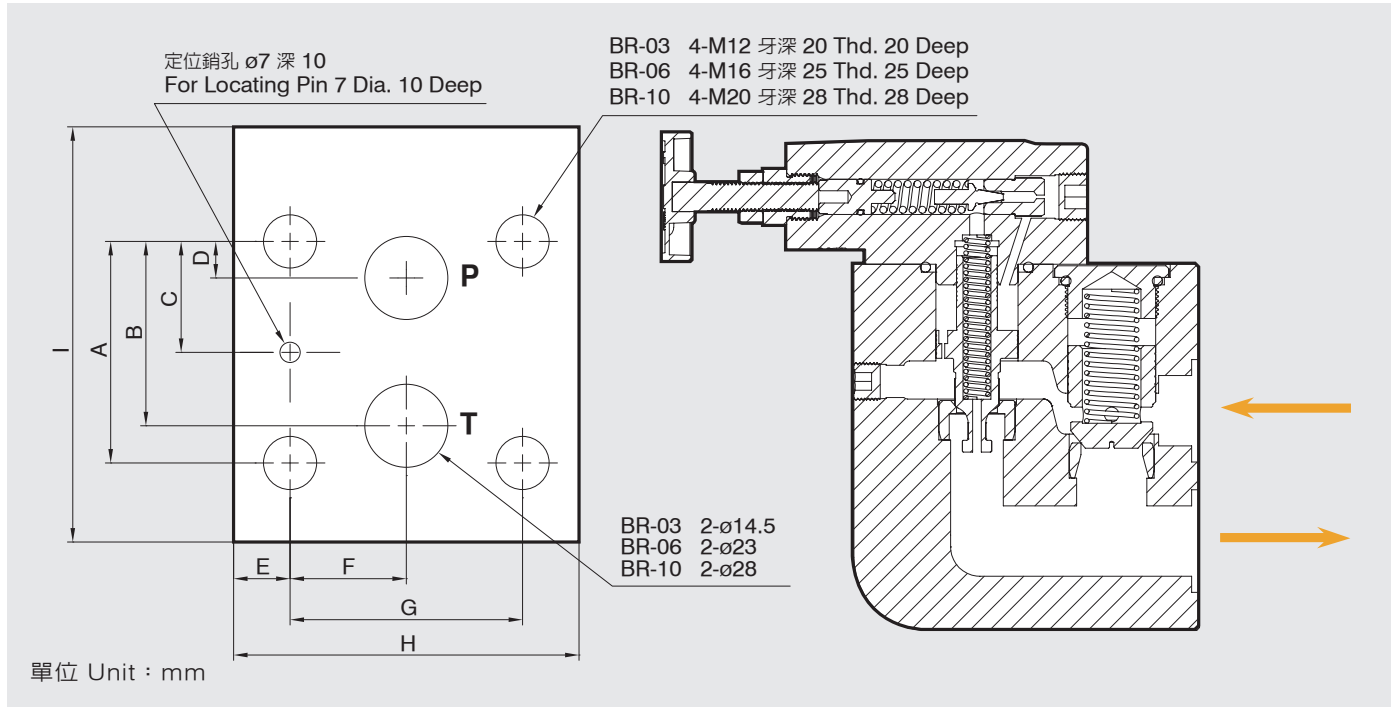
型號 Model	A	B	C	D	E	F	G	H	I	J	K	L
BR-03-分離型	120.5	79.5	22	25.7	83	41.5	14.6	117	116.5	97.5	139.5	190.3
BR-06-分離型	148	86	1	19.3	104	52	17	118	97	87	167	186.4
BR-10-分離型	181	112.7	8	23.8	125	62.5	21.2	163	142.5	122.5	201.7	230

BR-06-一體型



單位 Unit : mm

底板尺寸圖 Bottom plate dimensions



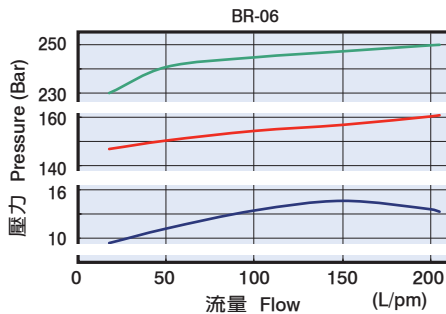
型號 Model	A	B	C	D	E	F	G	H	I			
BR-03	53.8	47.4	22	22	14.6	26.9	53.8	83	99			
BR-06	66.7	55.5	33.4	11	17	35	70	104	125			
BR-10	88.9	76.2	44.5	12.7	19.2	41.3	82.6	121	157.5			

性能曲線圖 Performance curves

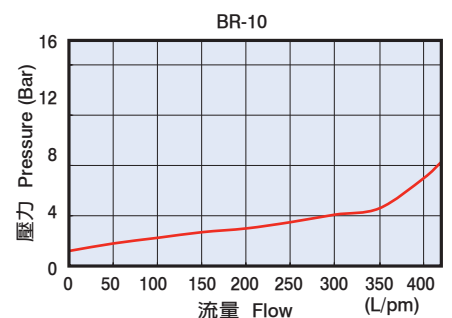
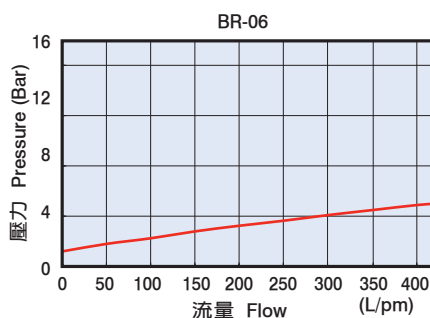
名義超調特性 Percent overshoot

使用油：黏度 $35\text{mm}^2/\text{s}\{\text{cSt}\}$ 溫度 50°C / 比重 0.850

Test fluid viscosity: $35\text{mm}^2/\text{s}\{\text{cSt}\}$ / Test temperature 50°C / specific gravity of 0.850

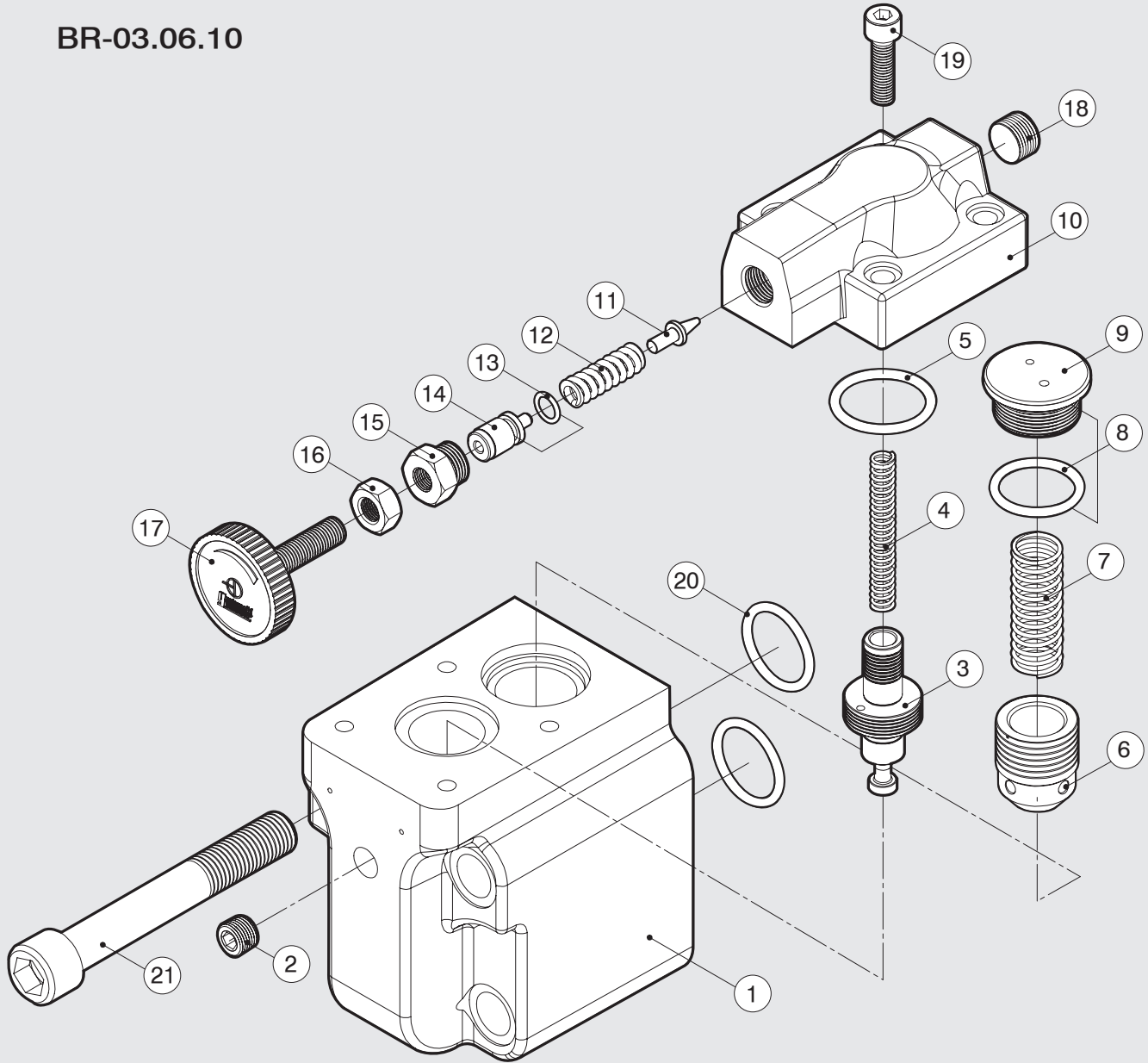


反向自由流的壓降 Reverse pressure drop for free flow



爆炸圖 How to order for a complete assembled valve

BR-03.06.10



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	心軸 Spool	1
4	彈簧 Spring	1
5	JIS B 2401-1B-P32	1
6	槍子閥 Check valve	1
7	彈簧 Spring	1
8	JIS B 2401-1A-P28	1
9	螺母 Nut	1
10	閥蓋 Cover	1

項次編號 No.	品名 Name of parts	數量 Q
11	針閥 Pilot poppet	1
12	彈簧 Spring	1
13	JIS B 2401-1A-P9	1
14	推桿 Push rod	1
15	把手螺母 Nut	1
16	六角螺母 Nut	1
17	壓力調整把手 Pressure adj. handle	1
18	PT 3/8	1
19	BR-03 M8 x 30L	4
	BR-06 M8 x 30L	4
	BR-10 M10 x 40L	4

- 減壓溢流閥是用於液壓平衡回路中兼有減壓和平衡功能的組合式壓力控制閥。
- 一個減壓閥、溢流閥和一個止回閥組成的常規回路能被一個減壓溢流閥替代。這能使平衡壓力的調整簡便，使回路大大簡化而且降低成本。如果負載變化，平衡壓力只要操作壓力調整手把即能方便地重新設定。減壓溢流閥能用於如加工中心的平衡機構的液壓回路中。
- Pressure reducing relief valve is used in hydraulic balance circuit, it is an assembled pressure control valve with functions of pressure reducing and balancing.
- A normal circuit composed of a pressure reducing valve, relief valve, and a check valve can be substituted by a pressure reducing relief valve. It makes the adjustment of pressure balancing simple, to simplify the circuit and lower the cost. If load changes, you just need to operate the pressure adjusting handle to reset for pressure balancing. Pressure reducing relief valve can be used in hydraulic circuit of balance mechanism at machining center.



BRG-03

型號意義 How to order :

BRG - 06 - ※

1 2 3

1 系列號	Series
2 口徑代號	Valve size 03:3/8", 06:3/4"
3 壓力調整範圍	Pressure adjusting range

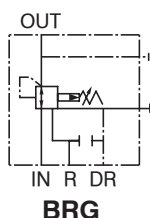
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ /min)	重量 Weight (Kg)
減壓溢流閥 Pressure reducing relief valve	3/8	BRG-03	1: 7~70	40	3.8
	3/4	BRG-06	2: 12~160	100	7.5

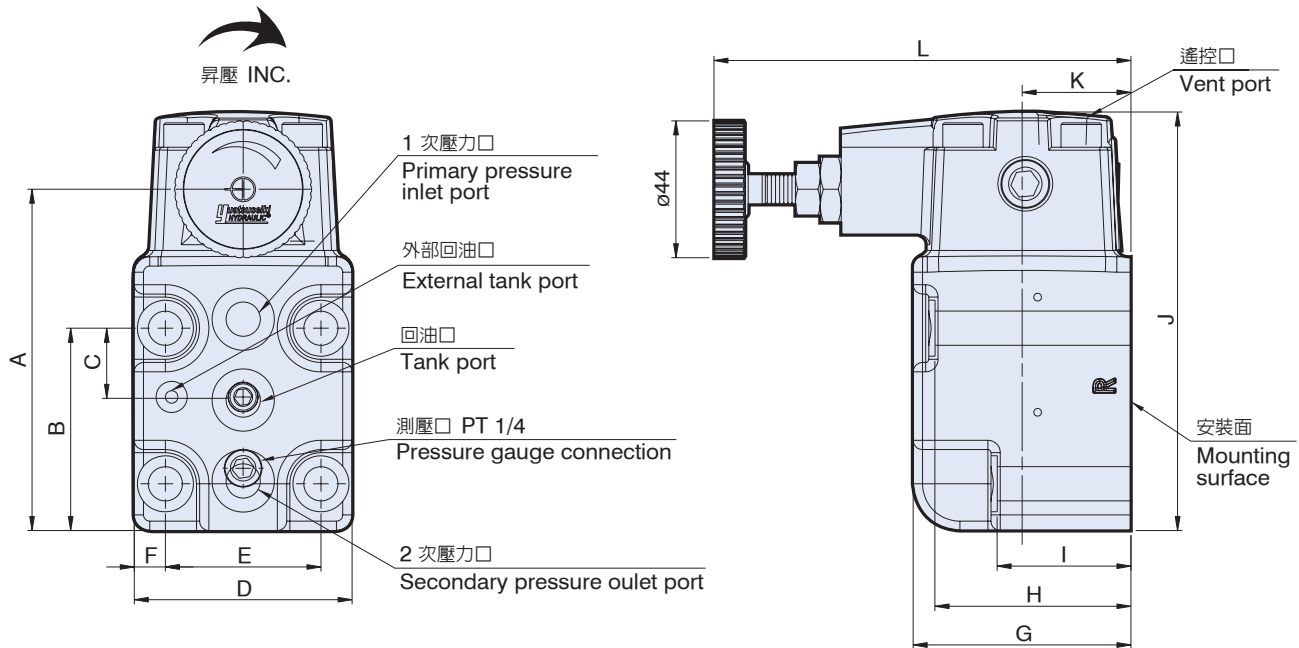
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring		
BRG-03	M10 x 75L 2支 piece	M10 x 55L 2支 piece	JIS B 2401-1B-P7 1條 piece	JIS B 2401-1B-P16 3條 piece	
BRG-06	M10 x 85L 2支 piece	M10 x 70L 2支 piece	JIS B 2401-1B-P7 1條 piece	JIS B 2401-1B-G25 3條 piece	

圖形符號 Graphic symbol :



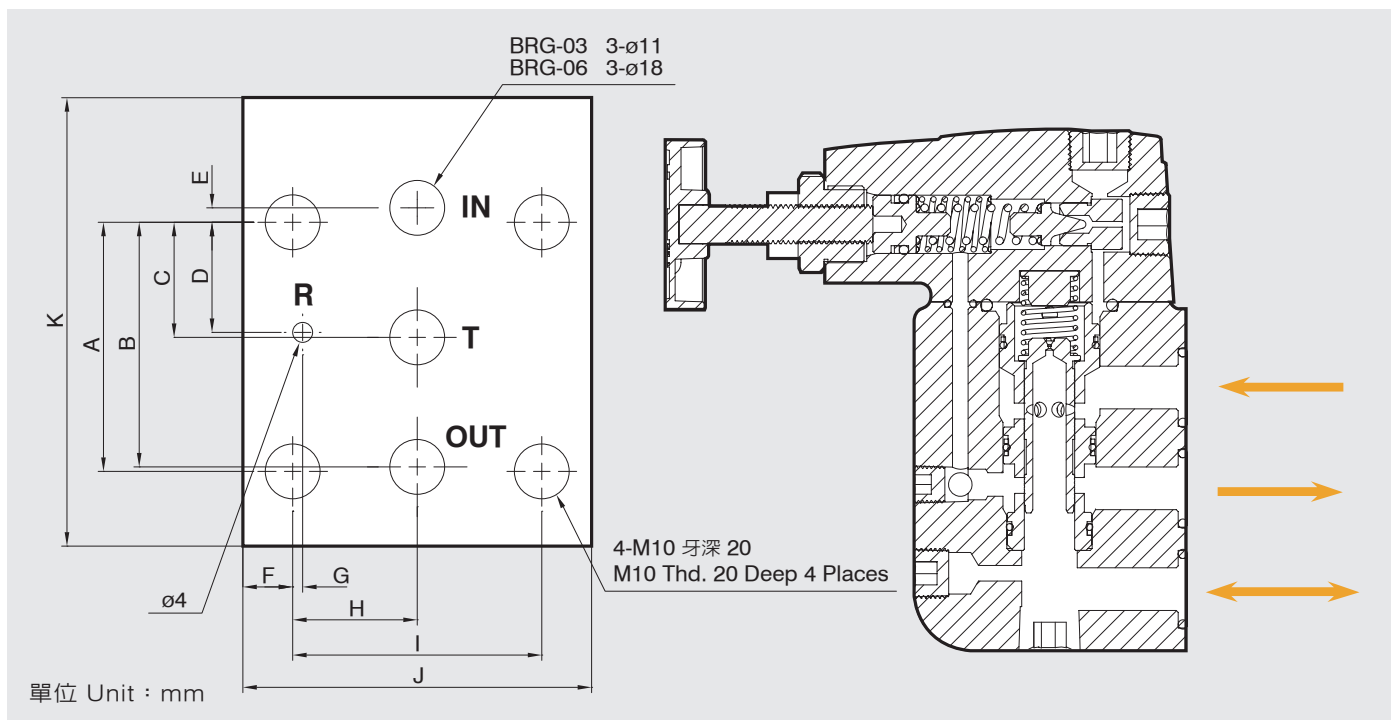
BRG-03.06



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L
BRG-03	110	65	22.1	70	50	10	70	63	43	134.5	35	134
BRG-06	142	95	37.45	90	70	10	80	70	55	169.5	40	138.5

底板尺寸圖 Bottom plate dimensions

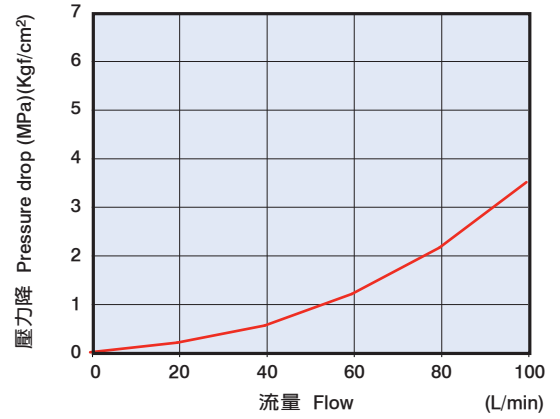
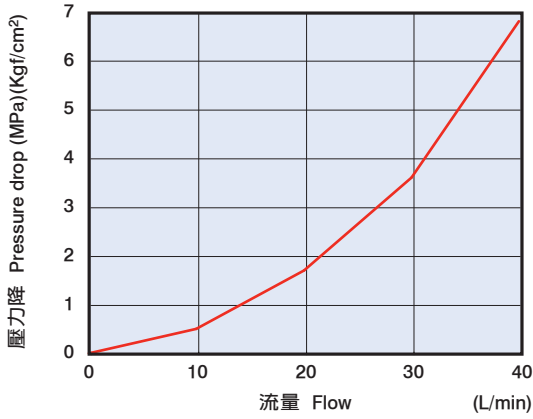


型號 Model	A	B	C	D	E	F	G	H	I	J	K
BRG-03	50	49.1	23.1	22.1	2.9	10	2	25	50	70	90
BRG-06	75	75	37.5	37.45	0	10	3.05	35	75	90	120

性能曲線圖 Performance curves

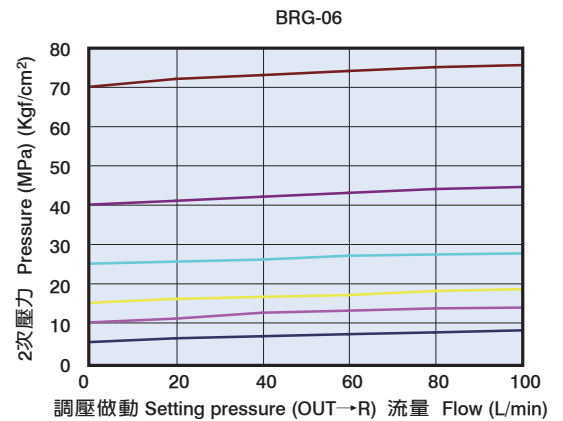
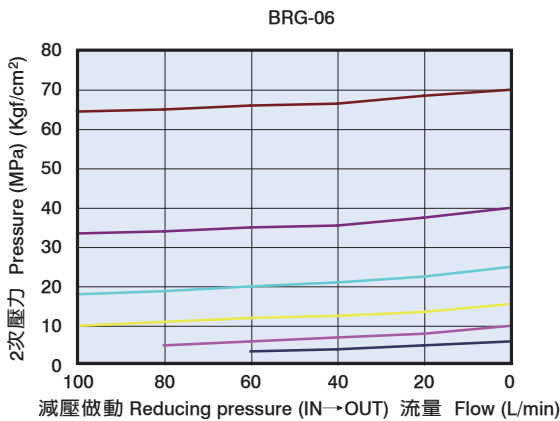
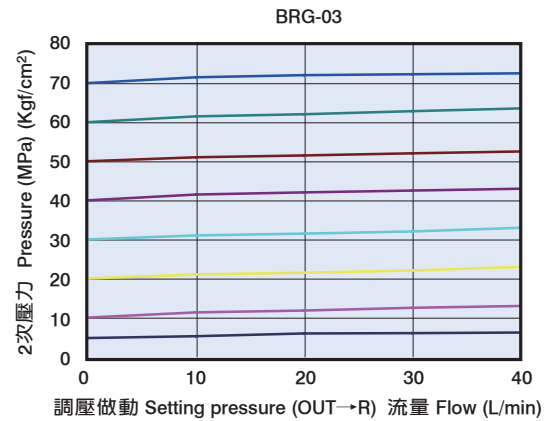
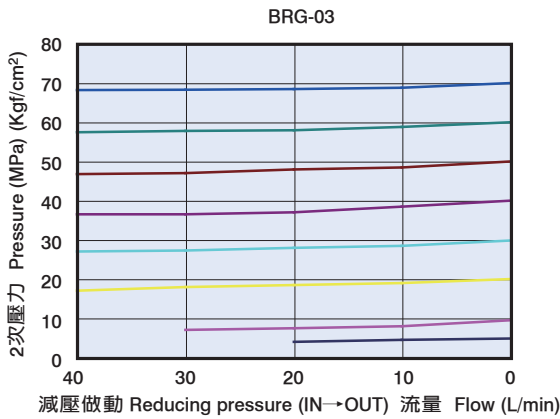
■ 流量-壓力降特性曲線圖 Flow vs. Pressure drop curve chart.

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}



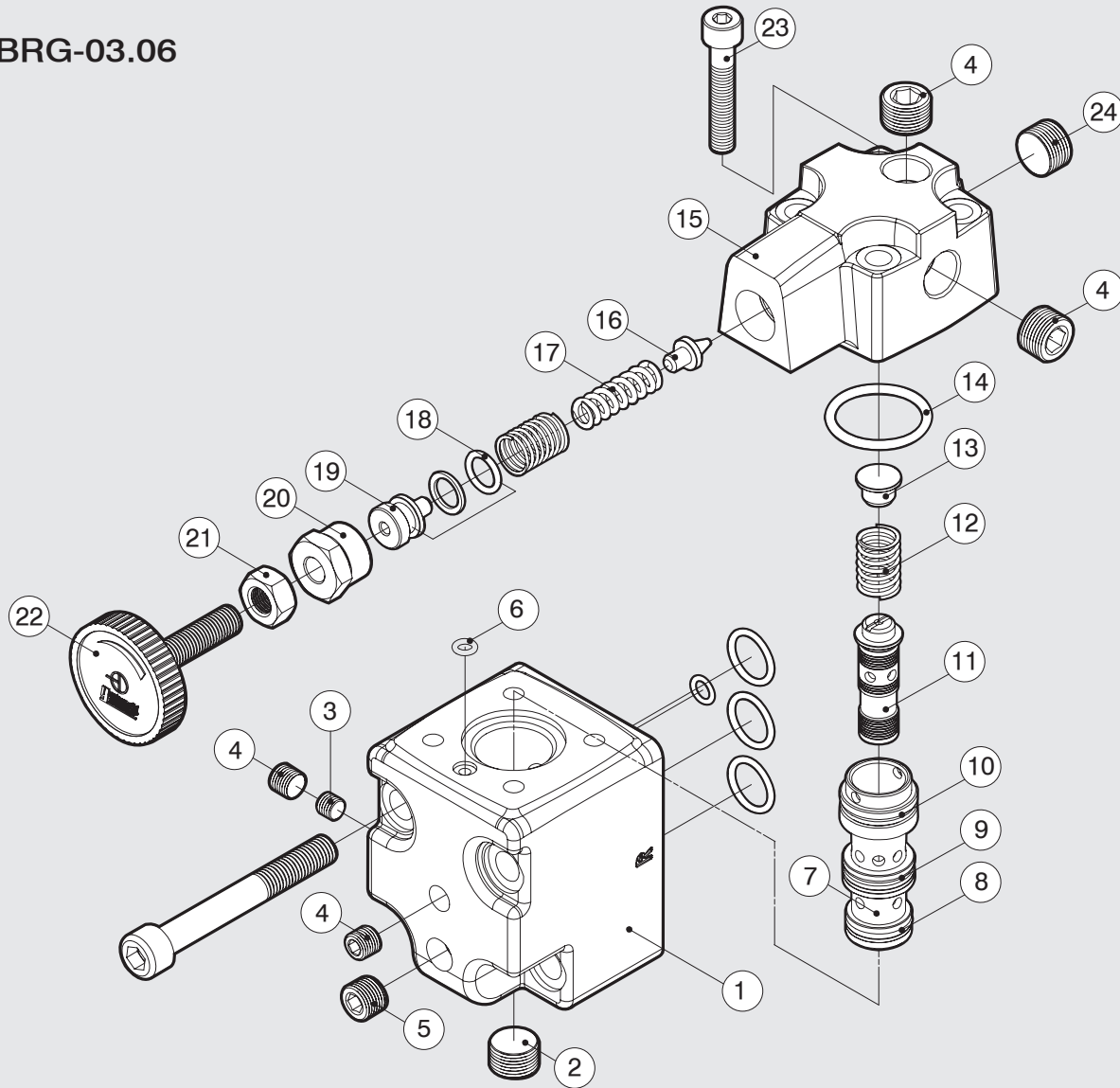
■ 流量-壓力特性曲線圖
The characteristic curve chart of Flow vs. Pressure.

1次壓力 Pressure: 17.5MPa {175kgf/cm²}



爆炸圖 How to order for a complete assembled valve

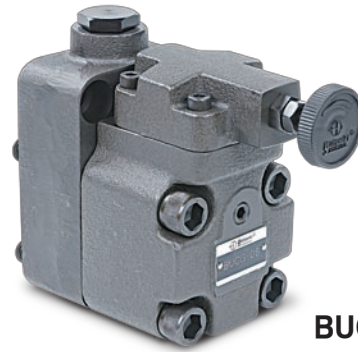
BRG-03.06



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	BRG-03 PT 3/8	1
	BRG-06 PT 1/2	1
3	PT 1/16	1
4	PT 1/8	2
5	BRG-03 PT 1/4	3
	BRG-06 PT 1/4	2
6	BRG-03 JIS B 2401-1B-P5	1
	BRG-06 JIS B 2401-1B-P6	1
7	心軸閥座 Spool seat	1
8	BRG-03 2-018 x 1, 8-018 x 1	1
	BRG-06 2-023 x 1, 8-023 x 1	1
9	BRG-03 2-019 x 1, 8-019 x 2	1
	BRG-06 2-024 x 1, 8-024 x 2	1
10	BRG-03 2-020 x 1, 8-020 x 1	1
	BRG-06 2-027 x 1, 8-027 x 1	1
11	心軸 Spool	1

項次編號 No.	品名 Name of parts	數量 Q
12	BRG-03 彈簧 Spring	1
	BRG-06 彈簧 Spring (R x 1, L x 1)	1
13	BRG-03 彈簧固定墊圈 Spring retainer	1
	BRG-06 無 None	
14	BRG-03 JIS B 2401-1B-G30	1
	BRG-06 JIS B 2401-1B-G40	1
15	閥蓋 Cover	1
16	針閥 Pilot poppet	1
17	BRG-03 彈簧 Spring (R x 1, L x 1)	1
	BRG-06 彈簧 Spring	1
18	JIS B 2401-1A-P11, JIS B 2407-T2-P11	1
19	推桿 Push rod	1
20	把手螺母 Nut	1
21	六角螺母 Nut	1
22	壓力調整把手 Pressure adj. handle	1
23	BRG-03 M8 x 45L	4
	BRG-06 M10 x 45	4
24	PT3/8	2

- BUCG 系列卸載溢流閥，適用於蓄能油路，或具有高低兩壓力之泵浦油路中，可確保泵浦在最小負載狀況下運轉。
- Unloading relief valve BUCG series is used to circuit with oil storage, or pump in high-low pressure, to make sure the pump operation under the minimum loading.


BUCG-03. 06. 10

型號意義 How to order :

BUC G - 06 - ※

1 2 3 4

1 系列號	Series
2 板式連接	SUB-Plate mounting
3 口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4",
4 壓力調整範圍	Pressure adjusting range

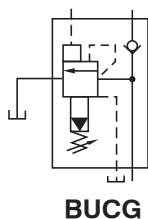
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
卸載溢流閥 Unloading Relief Valves	3/8	BUCG-03	B: 7~70	100	8.5
	3/4	BUCG-06	C: 35~140	200	12
	1-1/4	BUCG-10	H: 70~210	400	20

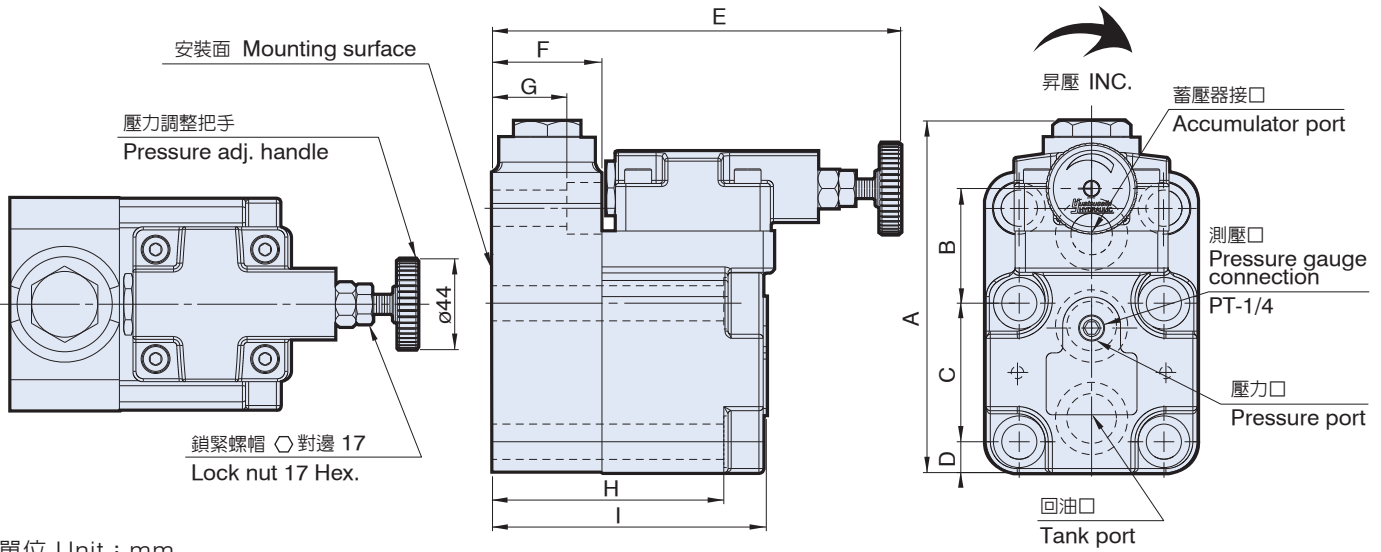
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
BUCG-03	M12 x 130L 2 支 piece	JIS B 2401-1B-P9 1 條 piece JIS B 2401-1B-P20 2 條 piece
BUCG-03 板	M12 x 110L 2 支 piece	JIS B 2401-1B-P16 3 條 piece
BUCG-06	M16 x 130L 4 支 piece	JIS B 2401-1B-P9 1 條 piece JIS B 2401-1B-P29 2 條 piece
BUCG-06 板	M16 x 55L 2 支 piece	JIS B 2401-1B-P29 3 條 piece
BUCG-10	M20 x 145L 2 支 piece M20 x 165L 2 支 piece	JIS B 2401-1B-P10A 1 條 piece JIS B 2401-1B-P36 2 條 piece
BUCG-10 板	M20 x 75L 2 支 piece	JIS B 2401-1B-G35 3 條 piece

圖形符號 Graphic symbol :



BUCG-03.06.10

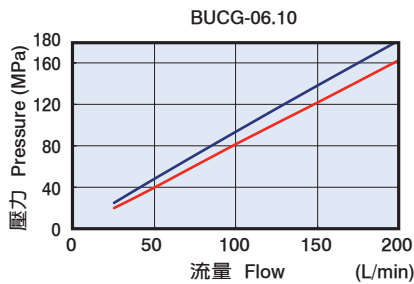


單位 Unit : mm

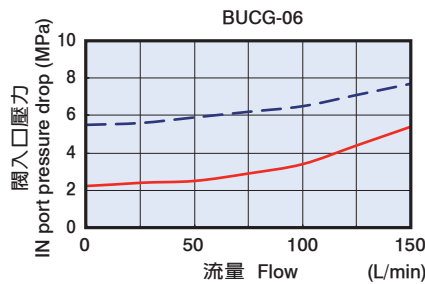
型號 Model	A	B	C	D	E	F	G	H	I			
BUCG-03	139	41	53.8	21.5	181.4	40		98.5	118			
BUCG-06	168.2	55.8	66.7	15	200	52	35.5	111	13.55			
BUCG-10	208.5	65	88.9	17	212	68	47.4	117.5	158			

性能曲線圖 Performance curves

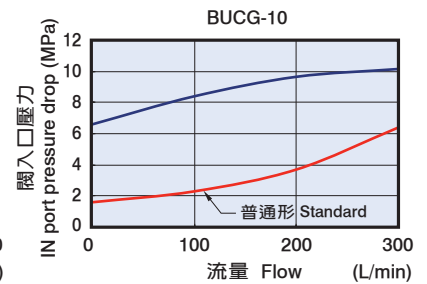
■ 壓力-壓力特性曲線圖
The characteristic curve chart of Pressure.



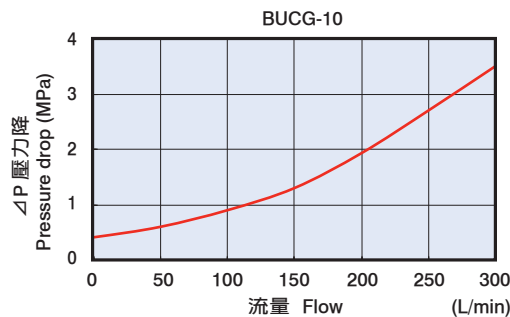
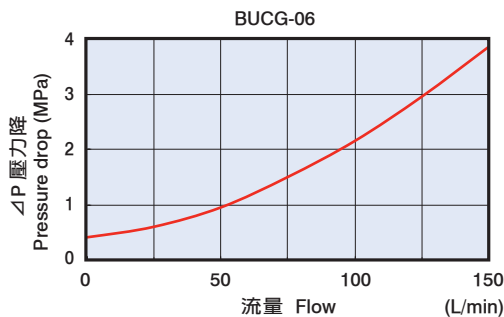
■ 流量-入口壓力特性曲線圖
The characteristic curve chart of Flow vs. inlet



使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
比重 Specific gravity of 0.850



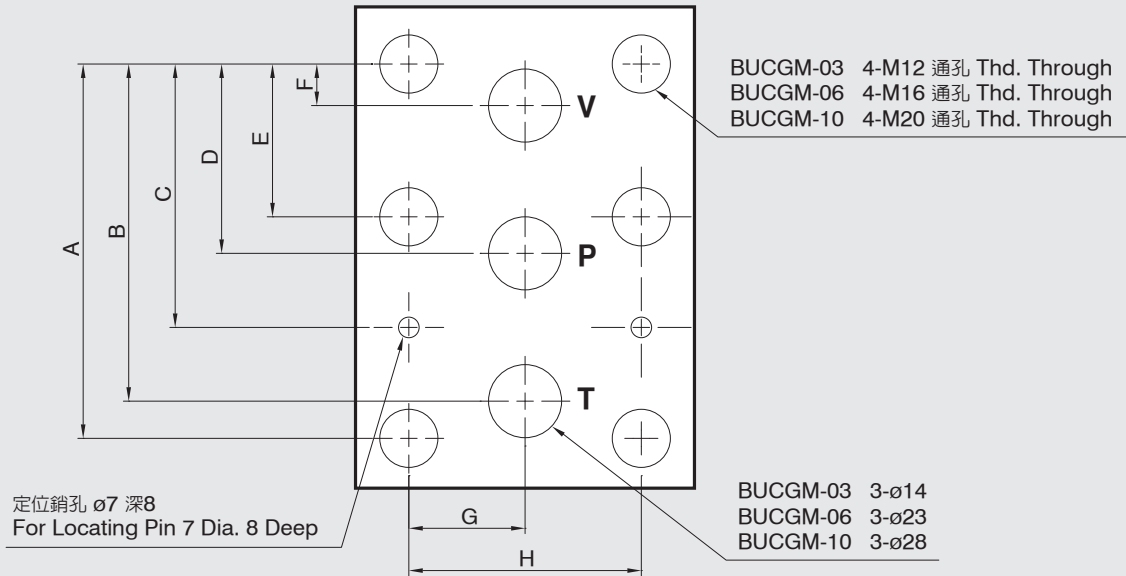
■ 流量-壓力降特性曲線圖 Flow vs. Pressure drop curve chart.



■ 粘度係數表 Viscosity

粘度 Viscosity	eSt	15	20	30	40	50	60	70	80	90	100
	SSU	77	98	141	186	232	278	324	371	471	464
係數 Coefficient		0.81	0.87	0.96	1.03	1.09	1.14	1.19	1.23	1.27	1.30

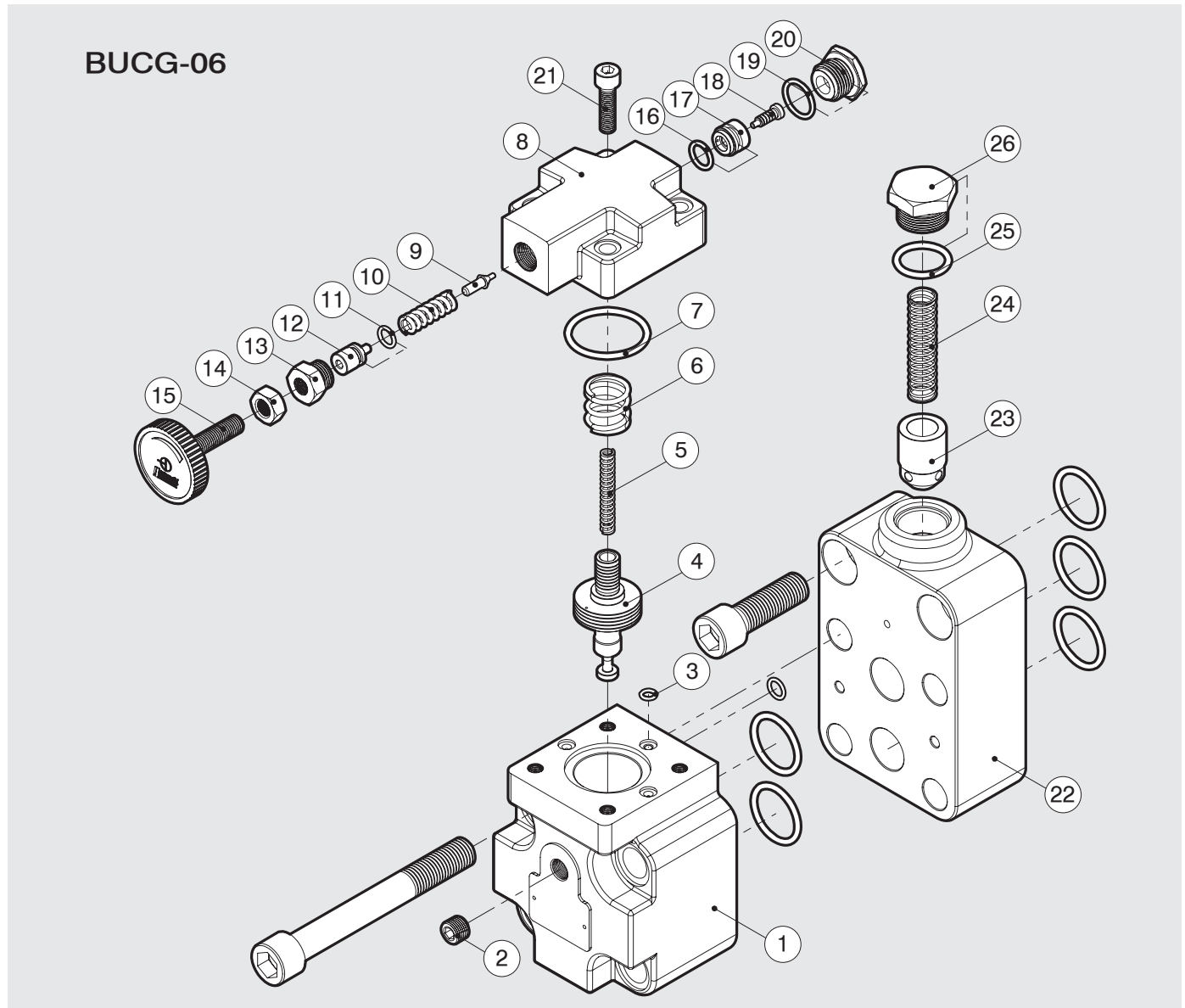
底板尺寸圖 Bottom plate dimensions



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H			
BUCG-03 (BUCGM-03)	53.8	47.4	22	22		0	26.9	53.8			
BUCG-06 (BUCGM-06)	112.7	101.5	79.3	57	46	12.5	35	70			
BUCG-10 (BUCGM-10)	139.9	127.2	95.5	70	51	13	41.3	82.6			

爆炸圖 How to order for a complete assembled valve



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	JIS B 2401-1B-P6	1
4	心軸 Spool	1
5	彈簧 Spring	1
6	大彈簧 Spring	1
7	BUCG-03 JIS B 2401-1B-P32	1
	BUCG-06 JIS B 2401-1B-P38	1
	BUCG-10 JIS B 2401-1B-P42	1
8	閥蓋 Cover	1
9	針閥 Pilot poppet	1
10	彈簧 Spring	1
11	JIS B 2401-1A-P9	1
12	推桿 Push rod	1
13	把手螺母 Nut	1
14	六角螺母 Nut	1

項次編號 No.	品名 Name of parts	數量 Q
15	壓力調整把手 Pressure adj. handle	1
16	JIS B 2401-1A-P12	1
17	活塞座 Piston seat	1
18	活塞 Piston	1
19	JIS B 2401-1A-P18	1
20	閥蓋螺母 Nut	1
21	BUCG-03 M8 x 45L	4
	BUCG-06 M8 x 30L	4
	BUCG-10 M10 x 55L	4
22	底板 Sub-plate	1
23	槍子閥 Check valve	1
24	彈簧 Spring	1
25	BUCG-03 JIS B 2401-1A-P18	1
	BUCG-06 JIS B 2401-1A-P24	1
	BUCG-10 JIS B 2401-1A-P40	1
26	螺母 Nut	1

- HG/HT 系列為直動式壓力控制閥，具有液力緩衝功能。
- 提供內控或外控特性。
- 單向壓力控制閥，使油可從二次壓力油口流向一次壓力油口。
- HG 系列壓力控制閥，可作各種不同組裝方式，作為其他閥類使用，例如：順序閥、低壓溢流閥、卸載閥、單向順序閥、抗衡閥等。
- HG/HT series is direct operated pressure control valve, with hydraulic damped.
- It can be actuated internally or externally.
- One-way pressure control valve makes oil to flow from secondary pressure port to primary pressure port.
- Pressure control valve HG series can assemble by various way to be other valves for operation. Such as sequence valve, low pressure relief valve, unloading valve, one-way sequence valve, counterbalance valve.


HG-03.06.10

HT-03.06.10

型號意義 How to order :

H G - 06 - ※
 1 2 3 4

1 系列號	Series
2 G: 板式連接 / T: 管式連接	G: SUB-Plate mounting / T: Threaded connections
3 口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
4 壓力調整範圍	Pressure adjusting range

產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pessure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
H 型壓力控制閥 H type pressure control valve	3/8	HG-03	A: 18~35 B: 35~70 C: 70~140 H: 140~210	50	4.1
	3/4	HG-06		125	6.4
	1-1/4	HG-10		250	11.2
	3/8	HT-03		50	4.2
	3/4	HT-06		125	6.8
	1-1/4	HT-10		250	12.1

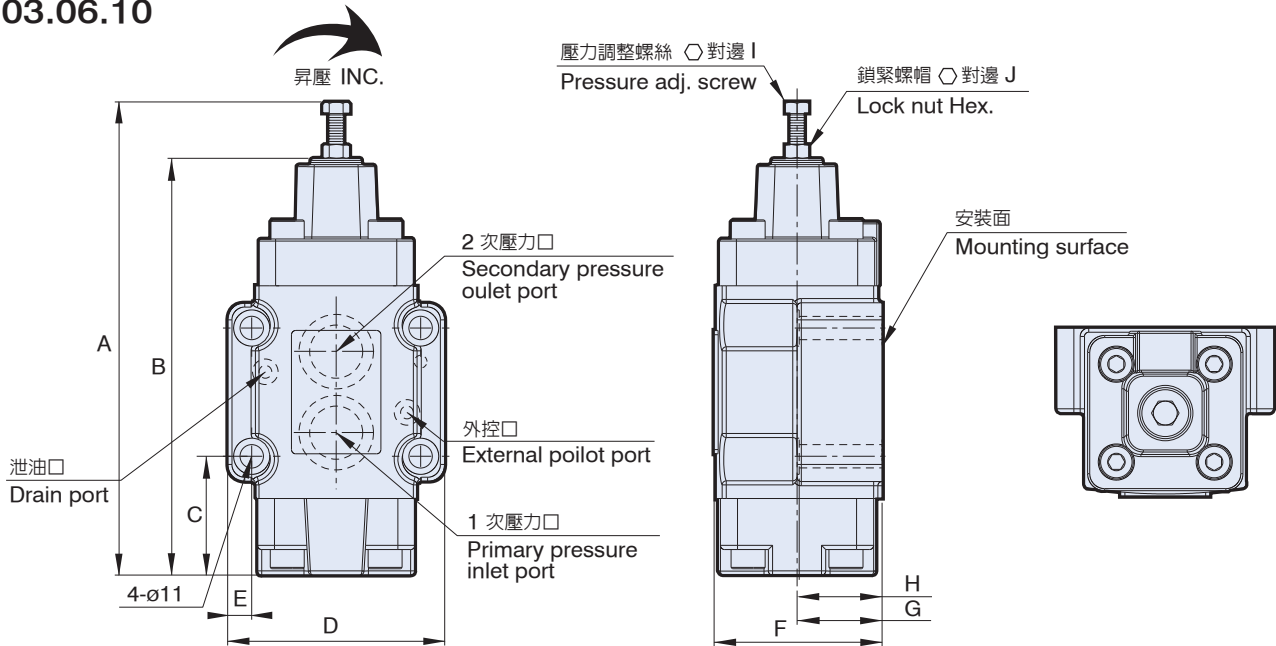
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
HG-03	M10 x 50L 4 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P20 2 條 piece
HG-06	M10 x 55L 4 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P29 2 條 piece
HG-10	M10 x 55L 6 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P38 2 條 piece

壓力控制閥 (H型壓力控制閥)

PRESSURE CONTROL VALVE (H type pressure control valve)

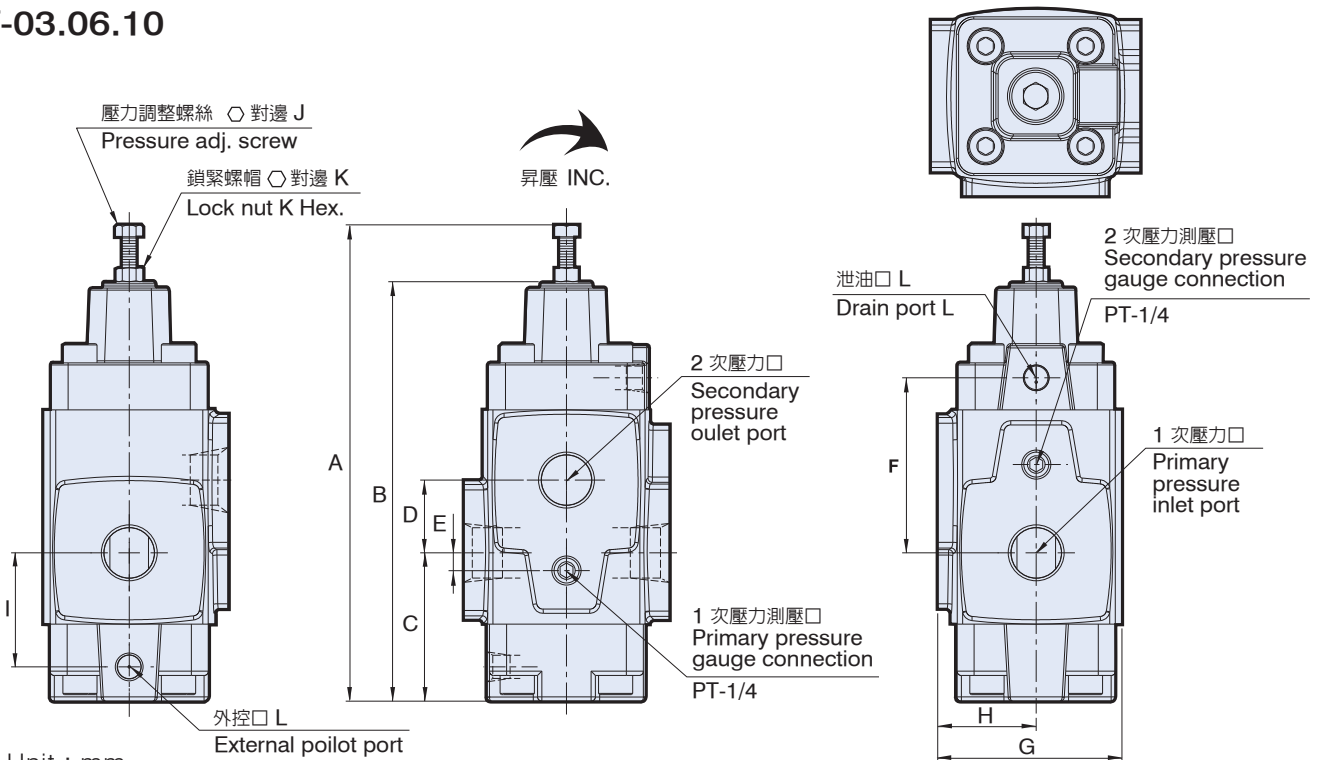
HG-03.06.10



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J
HG-03	195	170.5	52	91	12.15	69	36	35	外六角 Hex. 13	13
HG-06	214	189.5	51.35	100	10.3	80	40	40	外六角 Hex. 13	13
HG-10	267.5	238	65	121	12.1	96	48.5	40	內六角 Hex. 5	17

HT-03.06.10



單位 Unit : mm

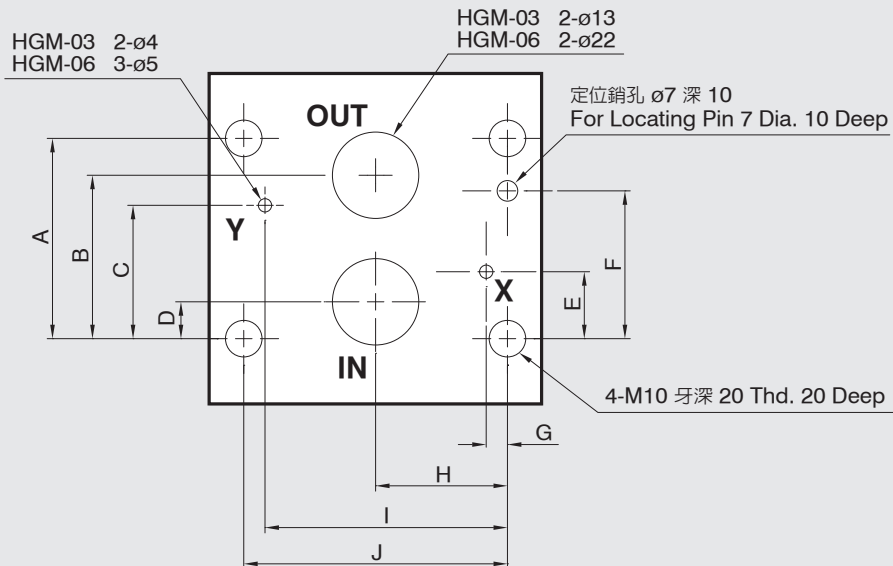
型號 Model	A	B	C	D	E	F	G	H	I	J	K	L
HT-03	195	170.5	59.5	28	2	69	73	41.5	43	外六角 Hex. 13	13	1/8
HT-06	213.5	189.5	65.5	34	8	81	85.25	46	53	外六角 Hex. 13	13	1/4
HT-10	267.5	238	87	41	11	100	105	60	68	內六角 Hex. 5	17	1/4

圖形符號 Graphic symbol :

型式1:低壓溢流閥 Type 1:Low pressure relief valve	型式2: 順序閥 Type 2: Sequence valve	型式3: 順序閥 Type 3: Sequence valve	型式4: 卸載閥 Type 4: Unloading valve
內部引導、內部泄油 Internal Pilot, Internal Drain	內部引導、外部泄油 Internal Pilot, External Drain	外部引導、外部泄油 External Pilot, External Drain	外部引導、內部泄油 External Pilot, Internal Drain

底板尺寸圖 Bottom plate dimensions

HG-03.06

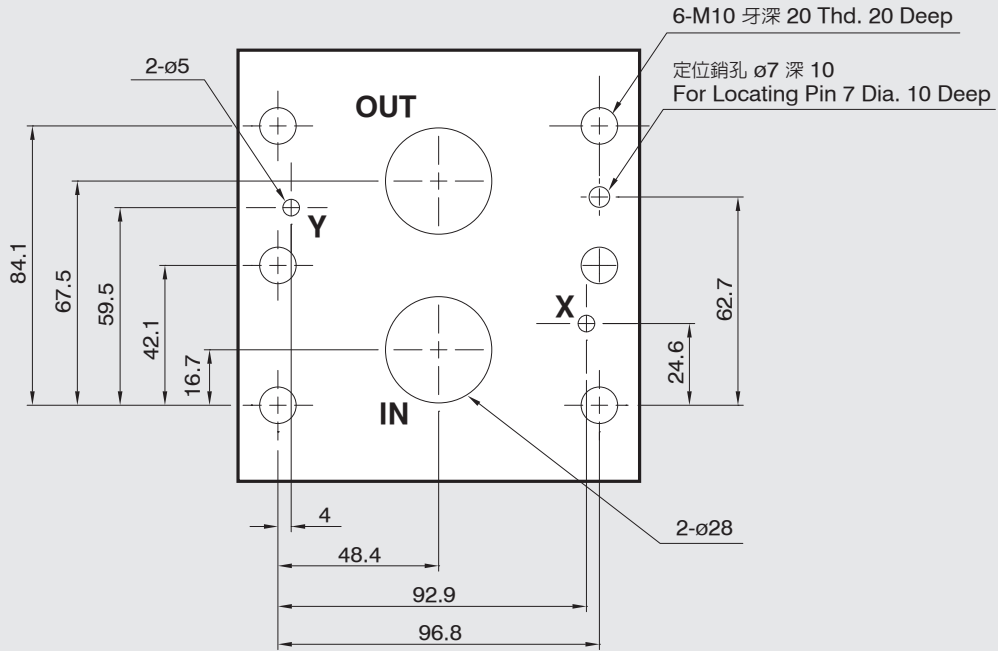


單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J
HG-03 (HGM-03)	42.9	35.7	21.4	7.1	21.4	31.8	7.9	33.35	50.9	66.7
HG-06 (HGM-06)	60.3	49.2	40.15	11.1	20.15	44.5	6.4	39.7	66.6	79.4

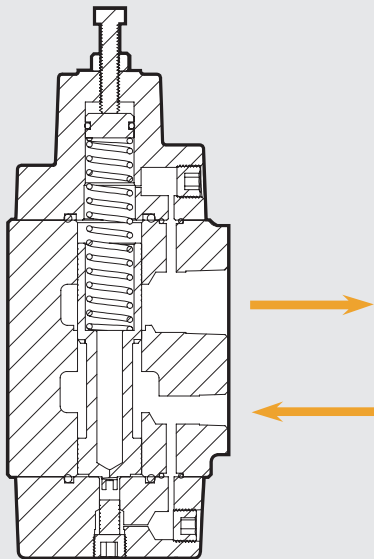
底板尺寸圖 Bottom plate dimensions

HG-10 (HGM-10)

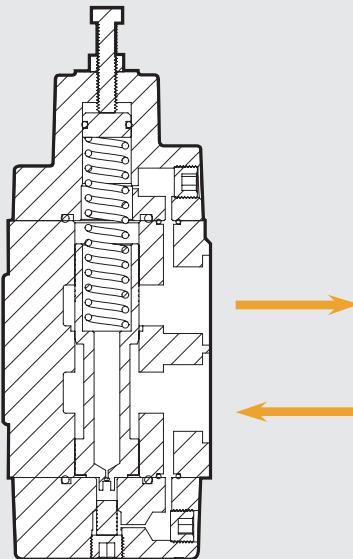


單位 Unit : mm

HT

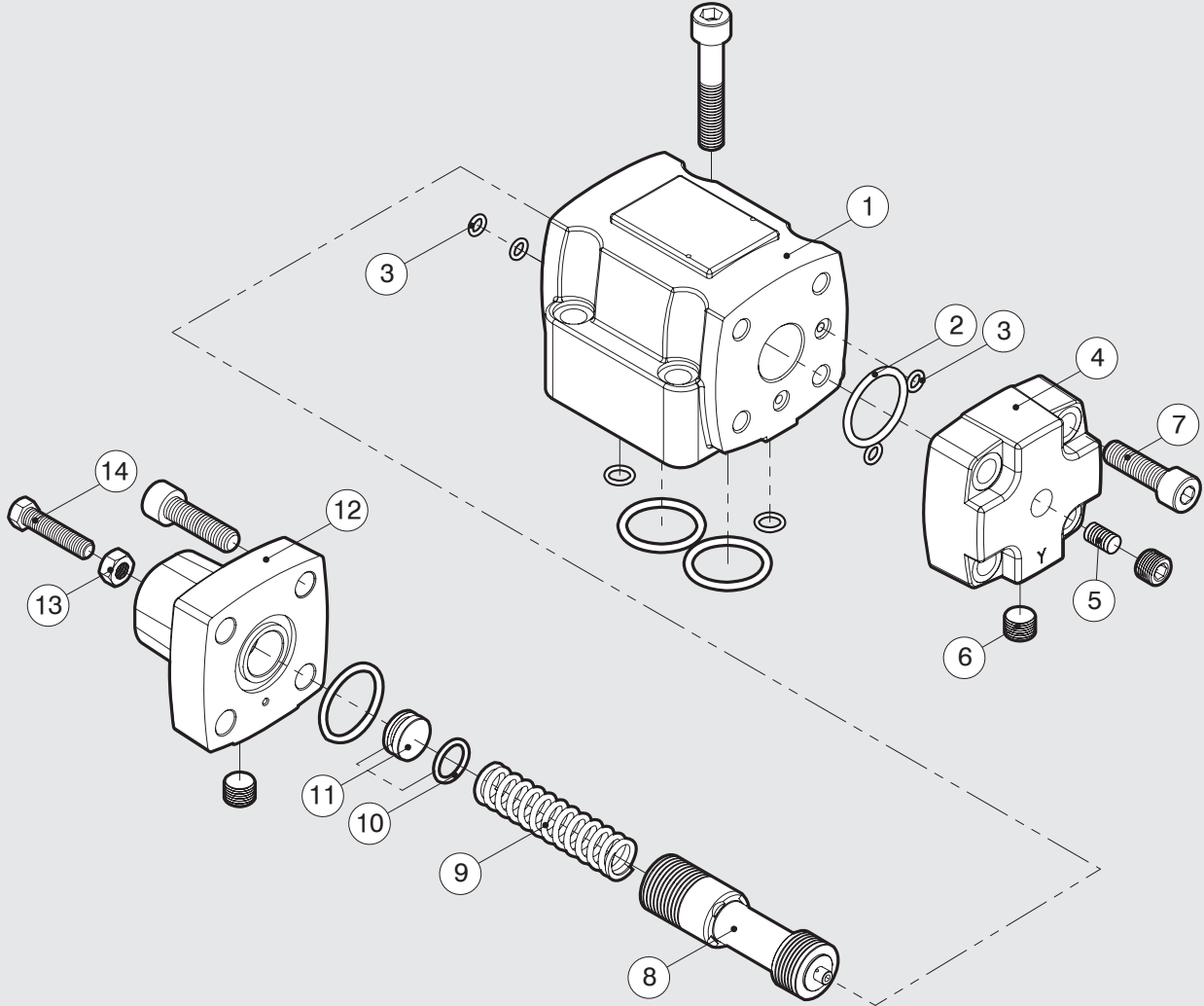


HG



爆炸圖 How to order for a complete assembled valve

HG-03.06.10

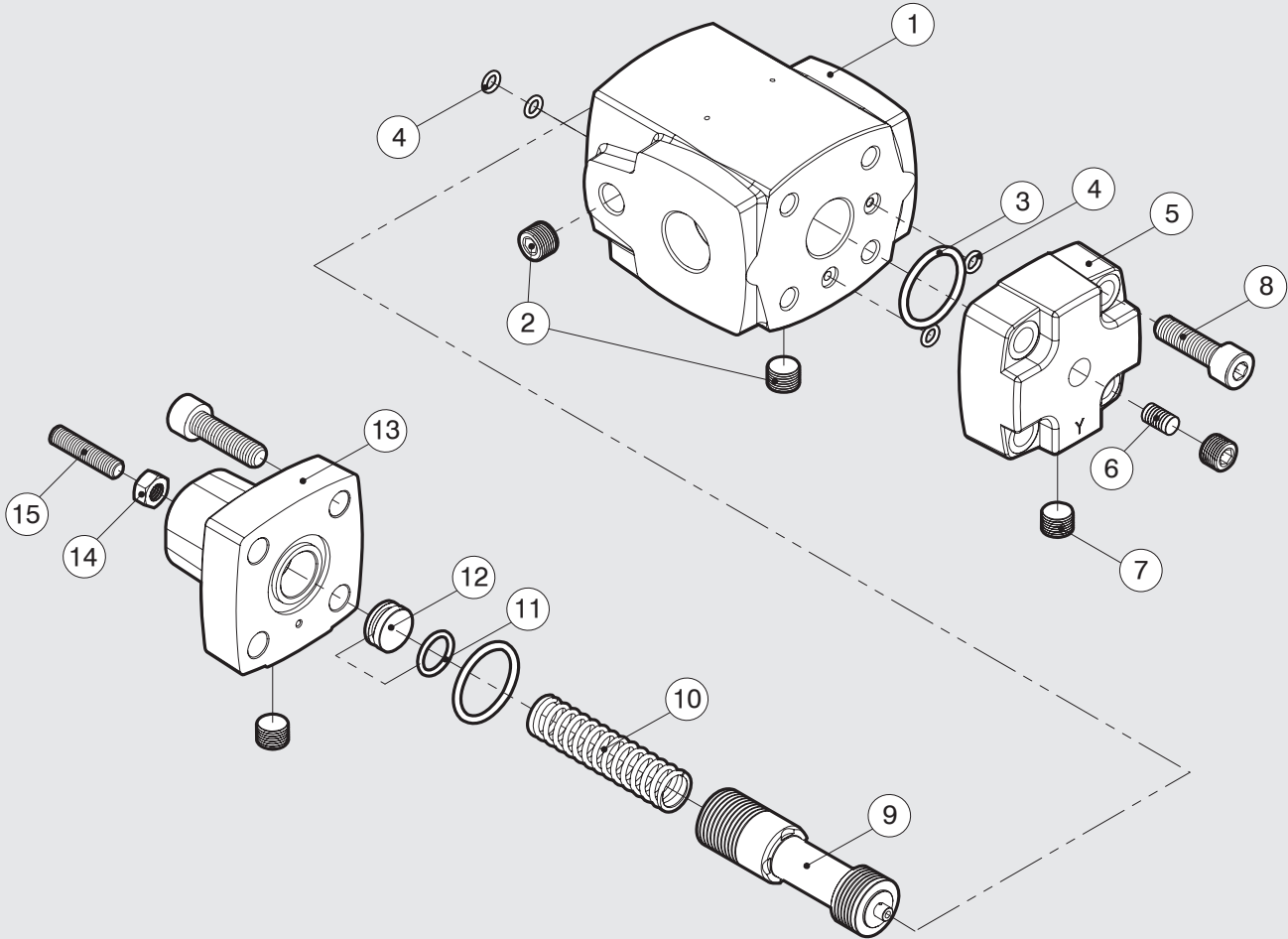


項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	HG-03 JIS B 2401-1B-G25	2
	HG-06 JIS B 2401-1B-G30	2
	HG-10 JIS B 2401-1B-P34	2
3	HG-03 JIS B 2401-1B-P6	4
	HG-06 JIS B 2401-1B-P6	4
	HG-10 JIS B 2401-1B-P9	4
4	閥蓋 Cover	1
5	活塞 Piston	1
6	HG-03 PT 1/8	3
	HG-06 PT 1/4	3
	HG-10 PT 1/4	2
	PT 3/8	1

項次編號 No.	品名 Name of parts	數量 Q
7	HG-03 M8 x 35L	8
	HG-06 M10 x 35L	8
	HG-10 M12 x 40L	8
8	心軸 Spool	1
9	彈簧 Spring	1
10	HG-03 JIS B 2401-1A-P11	1
	HG-06 JIS B 2401-1A-P15	1
	HG-10 JIS B 2401-1A-P20	1
11	推桿 Push rod	1
12	壓力調整閥蓋 Cover	1
13	六角螺母 Nut	1
14	調整壓力六角螺絲 Pressure adj. screw	1

爆炸圖 How to order for a complete assembled valve

HT-03.04.06.10



項次編號 No.	品名 Name of parts	數量 Q	
1	本體 Body	1	
2	PT 1/4	2	
3	HT-03.04 JIS B 2401-1B-G25	2	
	HT-06 JIS B 2401-1B-G30	2	
	HT-10 JIS B 2401-1B-P34	2	
4	HT-03.04 JIS B 2401-1B-P6	4	
	HT-06 JIS B 2401-1B-P6	4	
	HT-10 JIS B 2401-1B-P9	4	
5	閥蓋 Cover	1	
6	活塞 Piston	1	
7	HT-03.04 PT 1/8	3	
	HT-06 PT 1/4	3	
	HT-10	PT 1/4	2
		PT 3/8	1

項次編號 No.	品名 Name of parts	數量 Q
8	HT-03.04 M8 x 35L	8
	HT-06 M10 x 35L	8
	HT-10 M12 x 40L	8
9	心軸 Spool	1
10	彈簧 Spring	1
11	HT-03 JIS B 2401-1A-P11	1
	HT-06 JIS B 2401-1A-P15	1
	HT-10 JIS B 2401-1A-P20	1
12	推桿 Push rod	1
13	壓力調整閥蓋 Pressure adj. cover	1
14	六角螺母 Nut	1
15	調整壓力六角螺絲 Pressure adj. screw	1

- HCG 壓力控制閥，可避免下列問題發生：
 - (1) 由於負載突然減少，導致活塞劇烈衝擊現象。
 - (2) 立式油壓缸所支撐之重物，由於重物本身重量，逐漸降落之危險。
- Pressure control valve HCG series can avoid the following situation:
 - (1) The piston got heavy crashing by load decreased suddenly.
 - (2) The danger of gradual falling from heavy item itself loaded by vertical hydraulic cylinder.



HCG-03.06.10

型號意義 How to order :

H C G - 06 - ※

1 2 3 4 5

1 系列號	Series
2 附止回閥	With check valve
3 板式連接	SUB-Plate mounting
4 口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
5 壓力調整範圍	Pressure adjusting range

產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
HC型壓力控制閥	3/8	HCG-03	A: 18~35 B: 35~70 C: 70~140 H: 140~210	50	4.8
HC type pressure control valve	3/4	HCG-06		125	8.1
	1-1/4	HCG-10		250	13.3

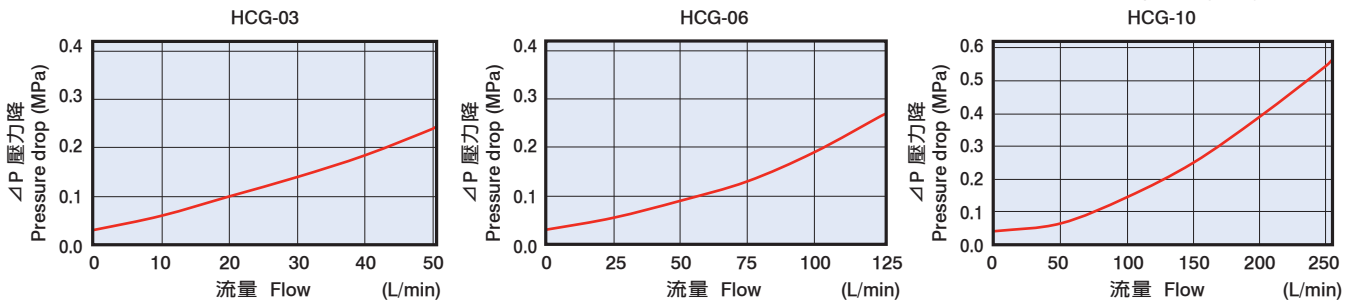
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
HCG-03	M10 x 70L 4 支 piece	JIS B 2401-1B-P9 2 條 piece
HCG-06	M10 x 80L 4 支 piece	JIS B 2401-1B-P9 2 條 piece
HCG-10	M10 x 90L 6 支 piece	JIS B 2401-1B-P9 2 條 piece

性能曲線圖 Performance curves

■ 流量-壓力降曲線圖 Flow vs. Pressure drop curve chart

使用油：黏度 Test fluid viscosity: 35mm²/s{cSt}
 比重 Specific gravity of 0.850



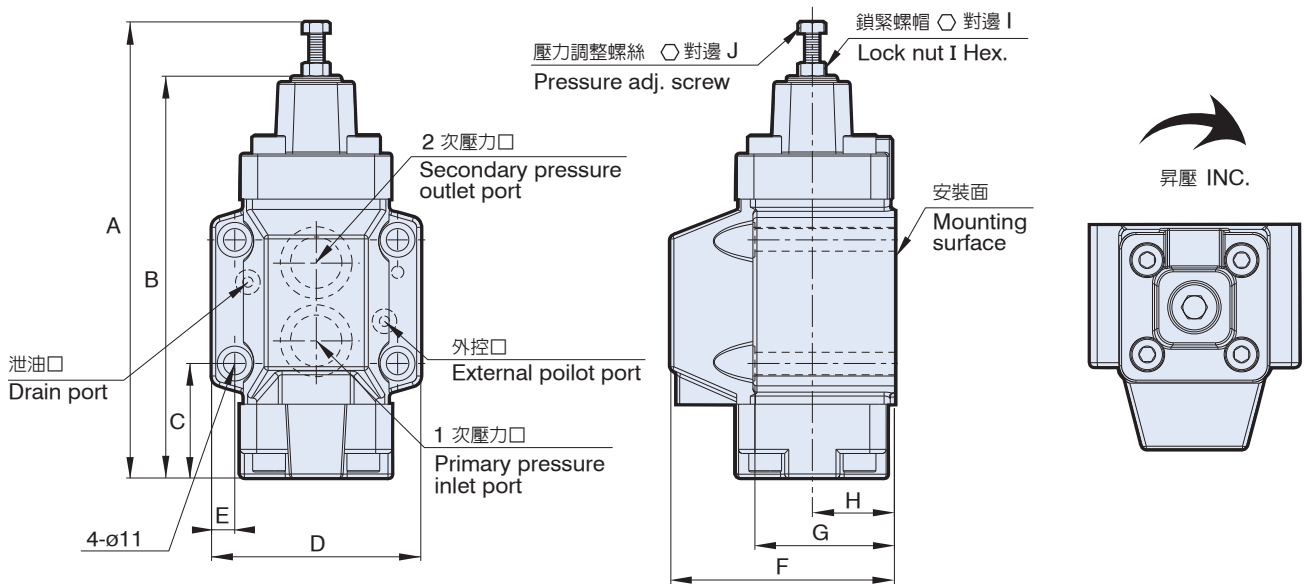
■ 粘度係數表 Viscosity

粘度	mm ² /s{cSt}	15	20	30	40	50	60	70	80	90	100
Viscosity	SSU	77	98	141	186	232	278	324	371	471	464
係數 Coefficient		0.81	0.87	0.96	1.03	1.09	1.14	1.19	1.23	1.27	1.30

圖形符號 Graphic symbol :

型式1: 抗衡閥 Type 1: Counterbalance valve	型式2: 順序閥 Type 2: One-way sequence valve	型式3: 順序閥 Type 3: One-way sequence valve	型式4: 卸載閥 Type 4: Unloading valve
內部引導、內部泄油 Internal Pilot, Internal Drain	內部引導、外部泄油 Internal Pilot, External Drain	外部引導、外部泄油 External Pilot, External Drain	外部引導、內部泄油 External Pilot, Internal Drain

HCG-03.06.10

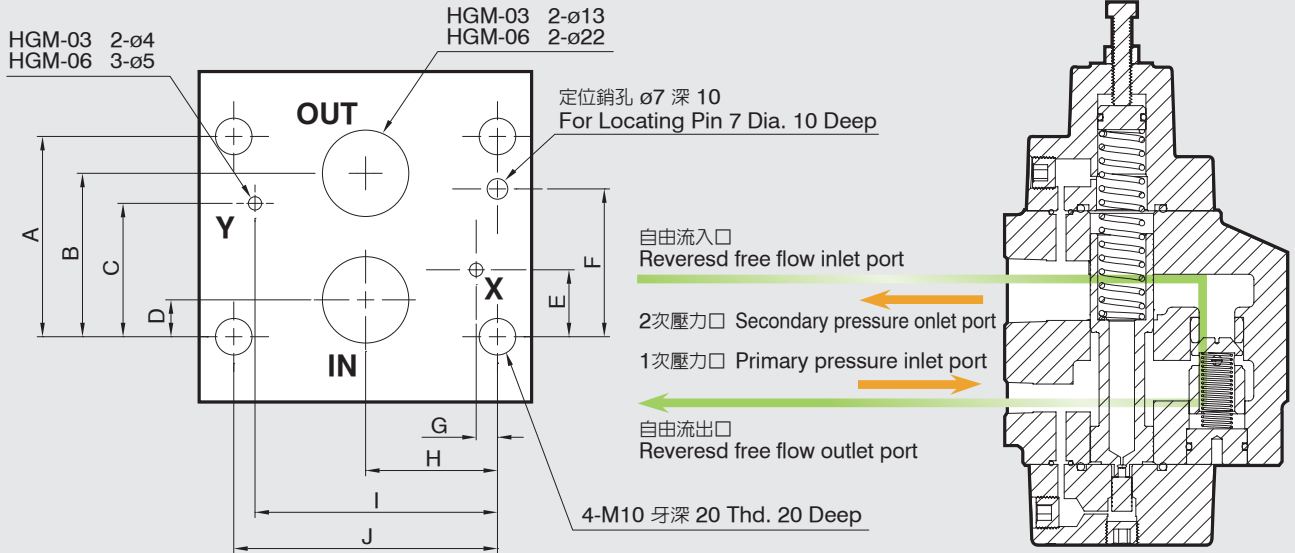


單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J
HCG-03	195	170.5	52.1	89	11.15	90	55	35	外六角 Hex. 13	13
HCG-06	218	189.5	51.35	102	11.3	109	65	40	外六角 Hex. 13	13
HCG-10	274.1	238	65	119	11.1	131	75	48	內六角 Hex. 5	17

底板尺寸圖 Bottom plate dimensions

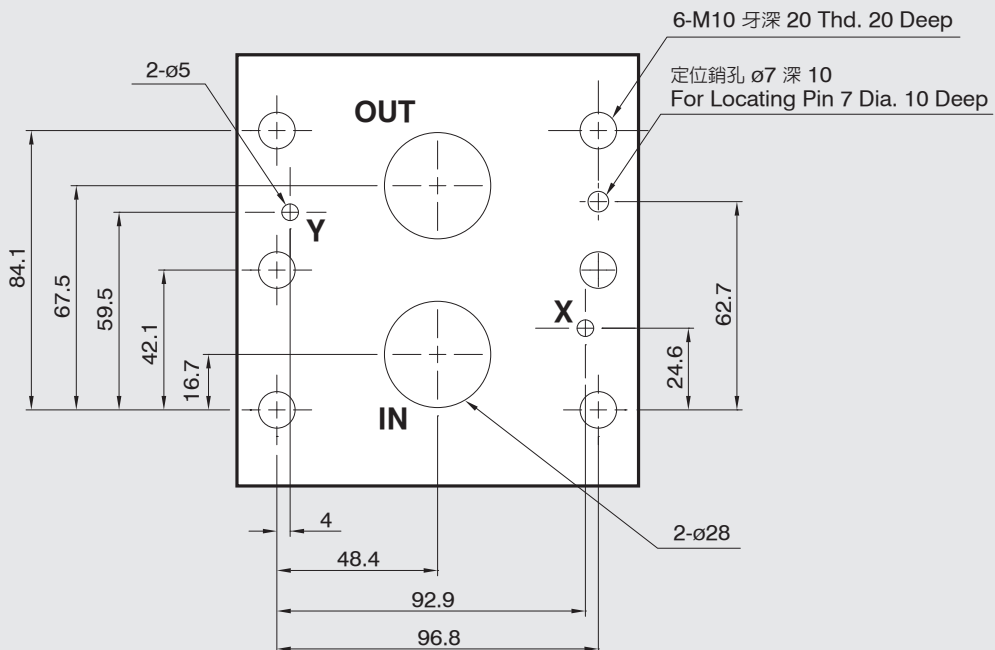
HCG-03.06



單位 Unit : mm

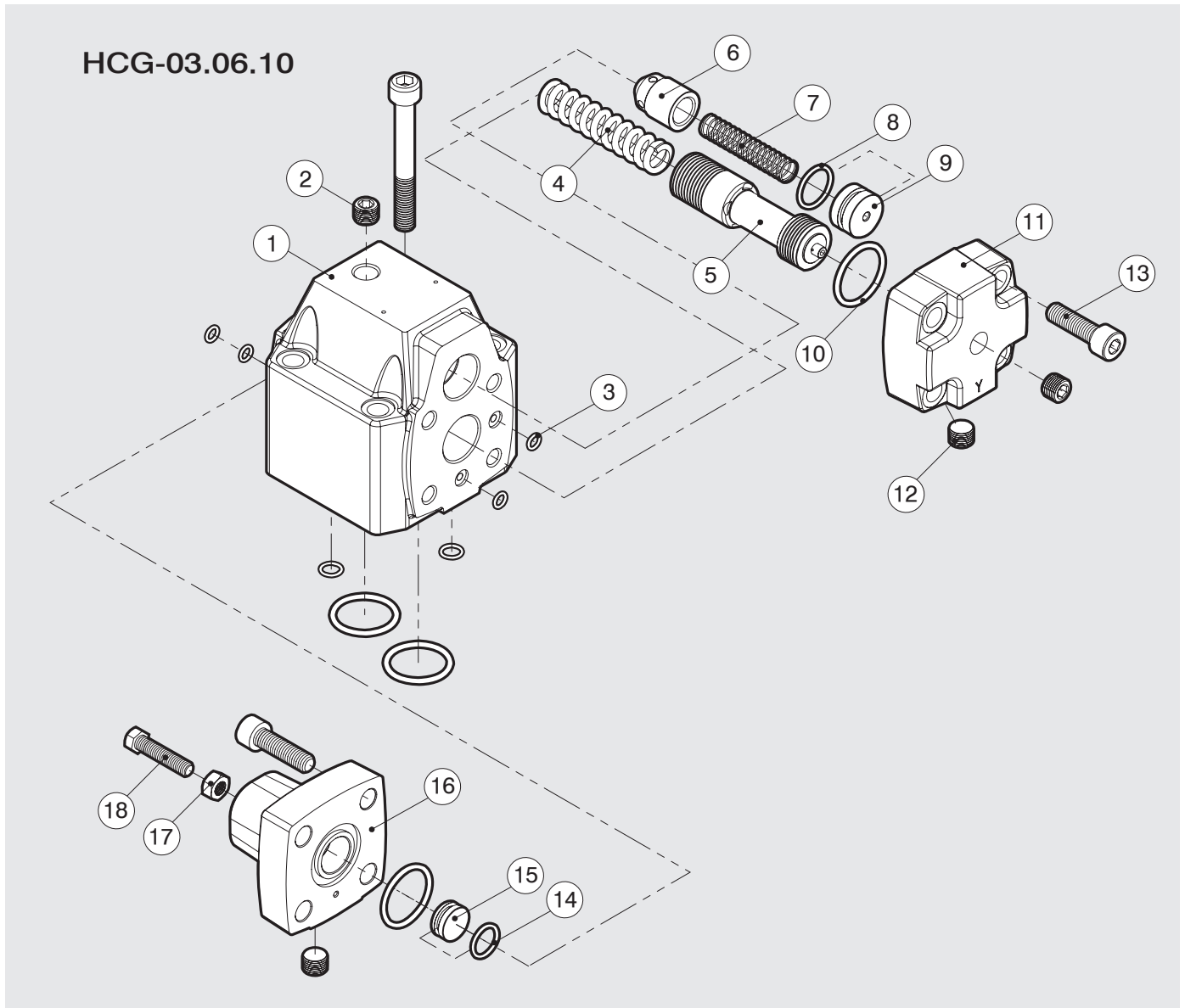
型號 Model	A	B	C	D	E	F	G	H	I	J		
HCG-03 (HGM-03)	42.9	35.7	21.4	7.1	21.4	31.8	7.9	33.35	50.9	66.7		
HCG-06 (HGM-06)	60.3	49.2	40.15	11.1	20.15	44.5	6.4	39.7	66.6	79.4		

HCG-10 (HGM-10)



單位 Unit : mm

爆炸圖 How to order for a complete assembled valve



頂次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	HCG-03 PT 1/4	1
	HCG-06 PT 1/4	1
3	HCG-03 JIS B 2401-1B-P6	4
	HCG-06 JIS B 2401-1B-P6	4
	HCG-10 JIS B 2401-1B-P9	4
4	彈簧 Spring	1
5	心軸 Spool	1
6	槍子閥 Check valve	1
7	彈簧 Spring	1
8	HCG-03 JIS B 2401-1A-P12	1
	HCG-06 JIS B 2401-1A-P20	1
	HCG-10 JIS B 2401-1A-P22A	1
9	推桿 Push rod	1
10	HCG-03 JIS B 2401-1B-G25	2
	HCG-06 JIS B 2401-1B-G30	2

頂次編號 No.	品名 Name of parts	數量 Q
10	HCG-10 JIS B 2401-1B-P34	2
11	閥蓋 Cover	1
12	HCG-03 PT 1/8	3
	HCG-06 PT 1/4	3
	HCG-10 PT 1/4	2
	HCG-10 PT 3/8	1
13	HCG-03 M8 x 35L	8
	HCG-06 M10 x 35L	8
	HCG-10 M12 x 40L	8
14	HCG-03 JIS B 2401-1A-P11	1
	HCG-06 JIS B 2401-1A-P15	1
	HCG-10 JIS B 2401-1A-P20	1
15	推桿 Push rod	1
16	壓力調整閥蓋 Pressure adj. cover	1
17	六角螺母 Nut	1
18	調整壓力六角螺絲 Pressure adj. screw	1

- HCT 壓力控制閥，可避免下列問題發生：
 - (1) 由於負載突然減少，導致活塞劇烈衝擊現象。
 - (2) 立式油壓缸所支撐之重物，由於重物本身重量，逐漸降落之危險。
- Pressure control valve HCT series can avoid the following situation:
 - (1) The piston got heavy crashing by load decreased suddenly.
 - (2) The danger of gradual falling from heavy item itself loaded by vertical hydraulic cylinder.


HCT-03. 06. 10

型號意義 How to order :

H C T - 06 - ※
 1 2 3 4 5

1	系列號	Series
2	附止回閥	With check valve
3	管式連接	Threaded connection
4	口徑代號	Valve size 03:3/8", 04:1/2", 06:3/4", 10:1-1/4"
5	壓力調整範圍	Pressure adjusting range

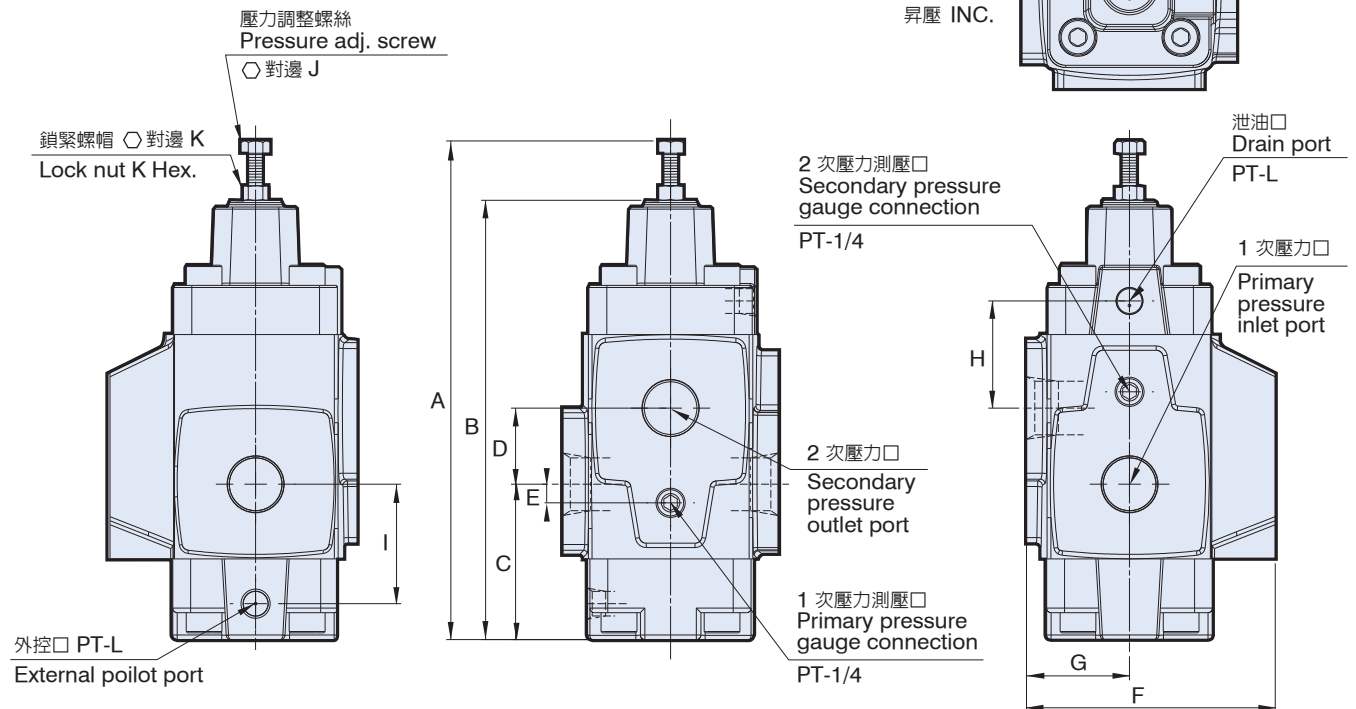
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pessure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
HC 型壓力控制閥 HC type pressure control valve	3/8	HCT-03	A: 18~35	50	4
	1/2	HCT-04	B: 35~70	50	4
	3/4	HCT-06	C: 70~140	125	7.5
	1-1/4	HCT-10	H: 140~210	250	13.8

圖形符號 Graphic symbol :

型式1:抗衡閥 Type 1:Counterbalance valve	型式2: 順序閥 Type 2: One-way sequence valve	型式3: 順序閥 Type 3: One-way sequence valve	型式4: 卸載閥 Type 4: Unloading valve
內部引導、內部泄油 Internal Pilot, Internal Drain	內部引導、外部泄油 Internal Pilot, External Drain	外部引導、外部泄油 External Pilot, External Drain	外部引導、內部泄油 External Pilot, Internal Drain

HCT-03.06.10



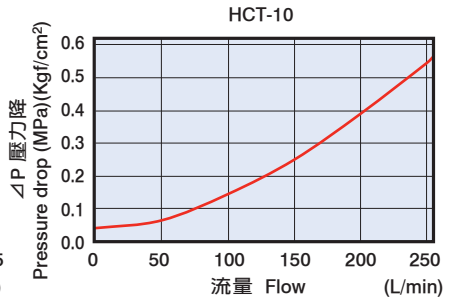
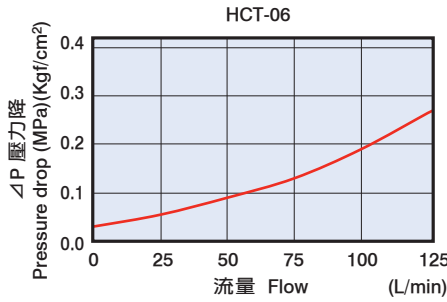
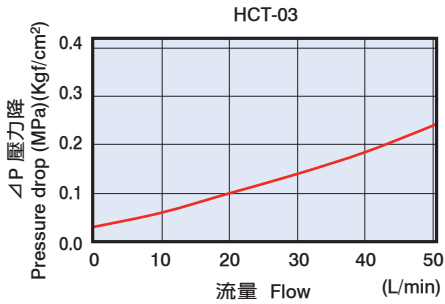
單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L
HCT-03	195	170.5	59.5	28	0	95	41.5	39	45	外六角 Hex. 13	13	1/8
HCT-06	213.5	189.5	66	34	8.3	111	46	46.5	53.5	外六角 Hex. 13	13	1/4
HCT-10	267.5	237	87	40	15	154	64	59	68	外六角 Hex. 5	17	1/4

性能曲線圖 Performance curves

■ 流量-壓力降曲線圖 Flow vs. Pressure drop curve chart

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
 比重 Specific gravity of 0.850

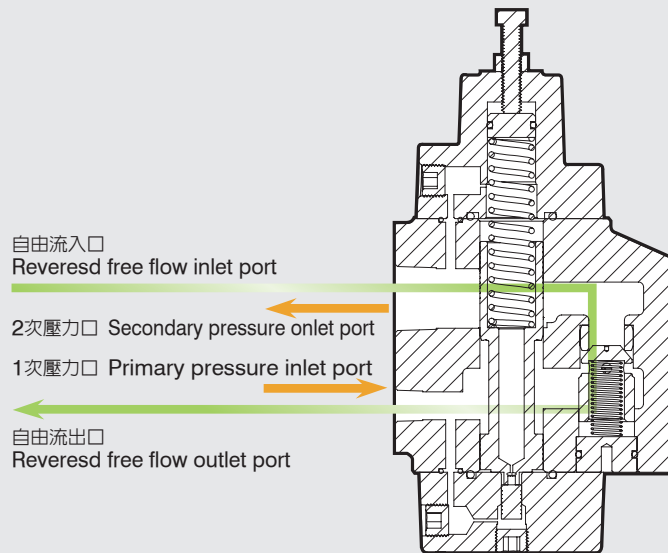


■ 粘度係數表 Viscosity

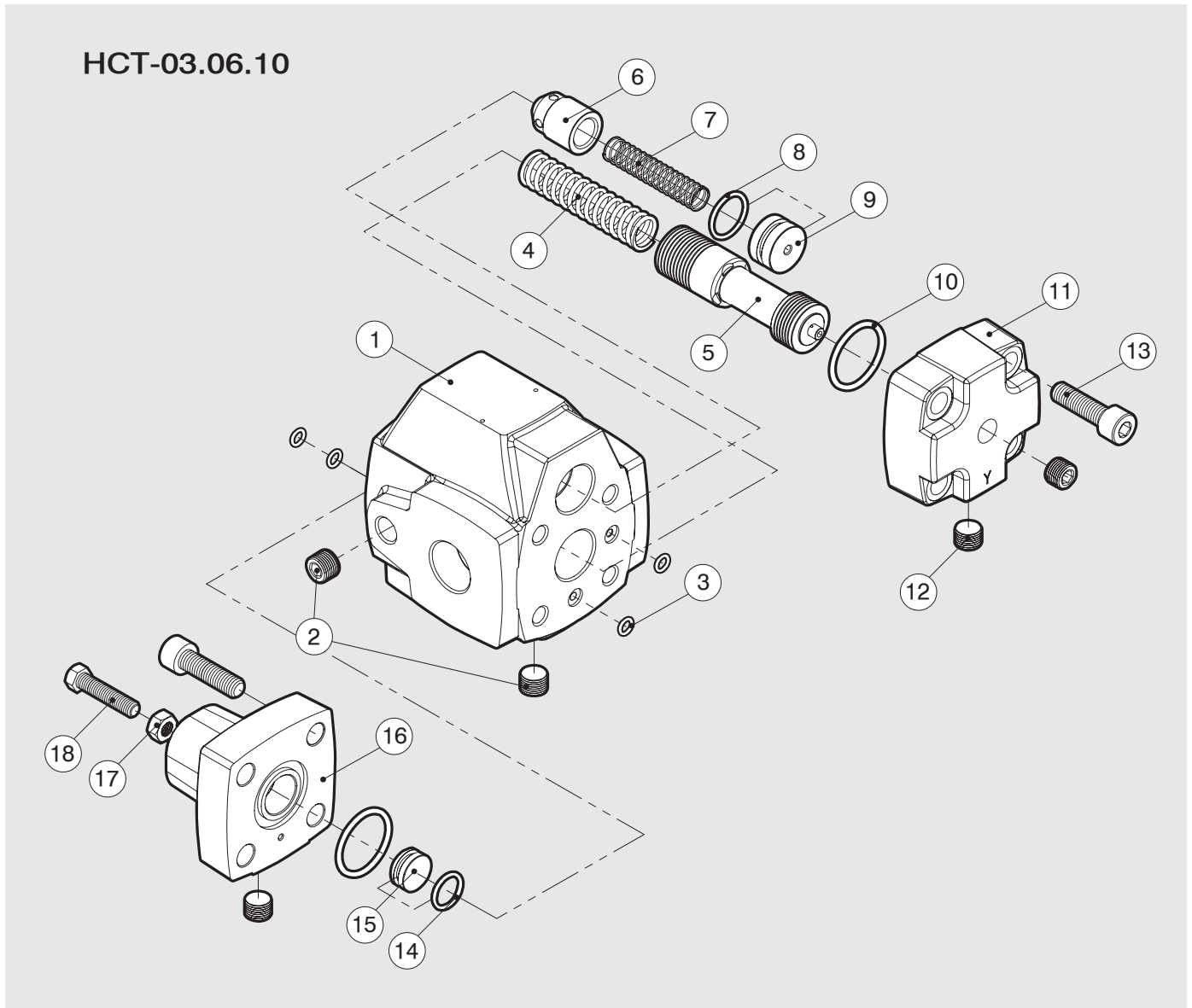
粘度	mm ² /s {cSt}	15	20	30	40	50	60	70	80	90	100
Viscosity	SSU	77	98	141	186	232	278	324	371	471	464
係數 Coefficient		0.81	0.87	0.96	1.03	1.09	1.14	1.19	1.23	1.27	1.30

出入油標示 Inlet / outlet sign

HCT-03.06.10



爆炸圖 How to order for a complete assembled valve



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	2
3	HCT-03.04 JIS B 2401-1B-P6	4
	HCT-06 JIS B 2401-1B-P6	4
	HCT-10 JIS B 2401-1B-P9	4
4	彈簧 Spring	1
5	心軸 Spool	1
6	槍子閥 Check valve	1
7	彈簧 Spring	1
8	HCT-03.04 JIS B 2401-1A-P12	1
	HCT-06 JIS B 2401-1A-P20	1
	HCT-10 JIS B 2401-1A-P22A	1
9	推桿 Push rod	1
10	HCT-03.04 JIS B 2401-1B-G25	2
	HCT-06 JIS B 2401-1B-G30	2
	HCT-10 JIS B 2401-1B-P34	2

項次編號 No.	品名 Name of parts	數量 Q
11	閥蓋 Cover	1
12	HCT-03.04 PT 1/8	3
	HCT-06 PT 1/4	3
	HCT-10 PT 1/4	2
13	HCT-03.04 PT 3/8	1
	HCT-03.04 M8 x 35L	4
	HCT-06 M10 x 35L	4
14	HCT-10 M12 x 40L	4
	HCT-03.04 JIS B 2401-1A-P11	1
	HCT-06 JIS B 2401-1A-P15	1
HCT-10 JIS B 2401-1A-P20	1	
15	推桿 Push rod	1
16	壓力調整閥蓋 Pressure adj. cover	1
17	六角螺母 Nut	1
18	調整壓力六角螺絲 Pressure adj. screw	1

- RG 系列減壓閥是屬於支回路元件，其功能有二：
 - (1) 用於設定低於主回路之壓力。
 - (2) 可利用遠程控制口，作遠程控制用途。
- Pressure reducing valve RG series is used branch circuit there are two functions below:
 - (1) Using to set the pressure below of the main hydraulic circuit.
 - (2) By using the remote control port for operation of remote control.


RG-03.06.10

型號意義 How to order :

R G - 06 - ※

1 2 3 4

1 系列號	Series
2 板式連接	SUB-Plate mounting
3 口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
4 壓力調整範圍	Pressure adjusting range

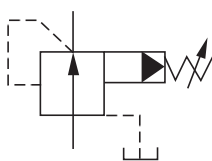
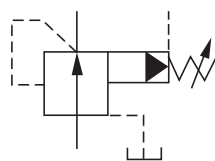
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
減壓閥 Reducing pressure valve	3/8	RG-03	B: 7~70	50	4.6
	3/4	RG-06	C: 35~140	125	7.2
	1-1/4	RG-10	H: 70~210	250	11

附件 Attachment :

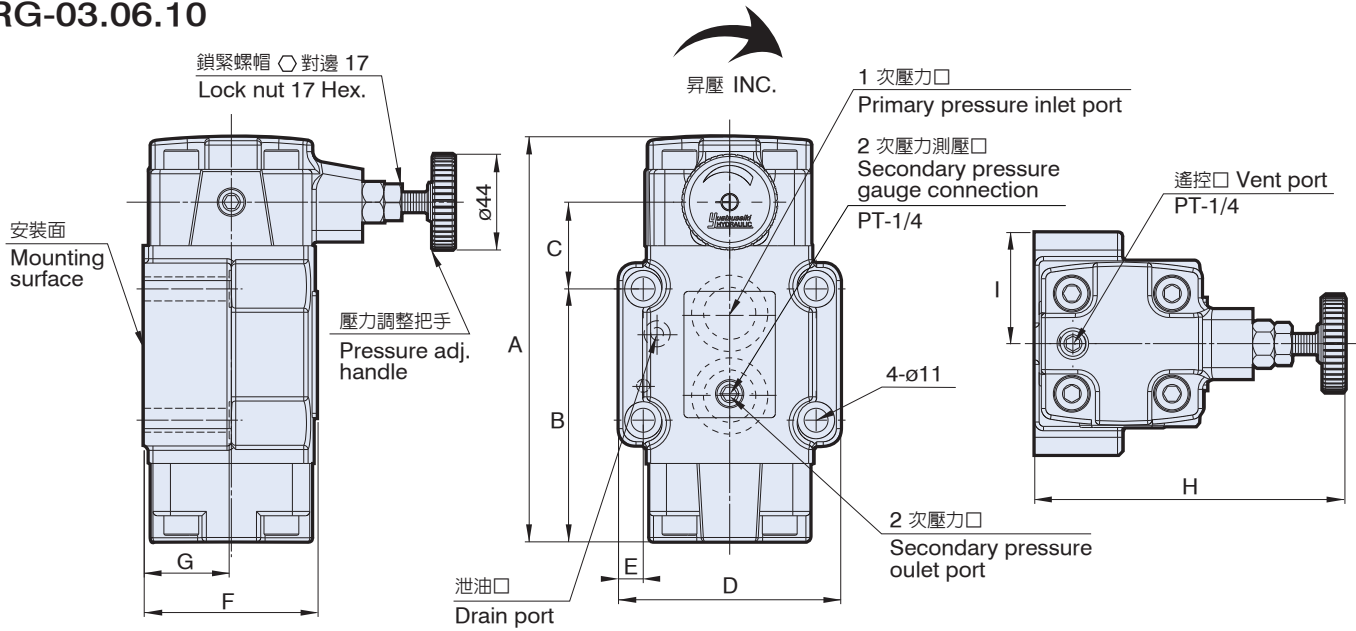
型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
RG-03	M10 x 50L 4 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P20 2 條 piece
RG-06	M10 x 55L 4 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P29 2 條 piece
RG-10	M10 x 55L 6 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P38 2 條 piece

圖形符號 Graphic symbol :


RG

**利用遙控口時
Vent Connection**

壓力控制閥 (減壓閥) PRESSURE CONTROL VALVE (Pressure reducing valve)

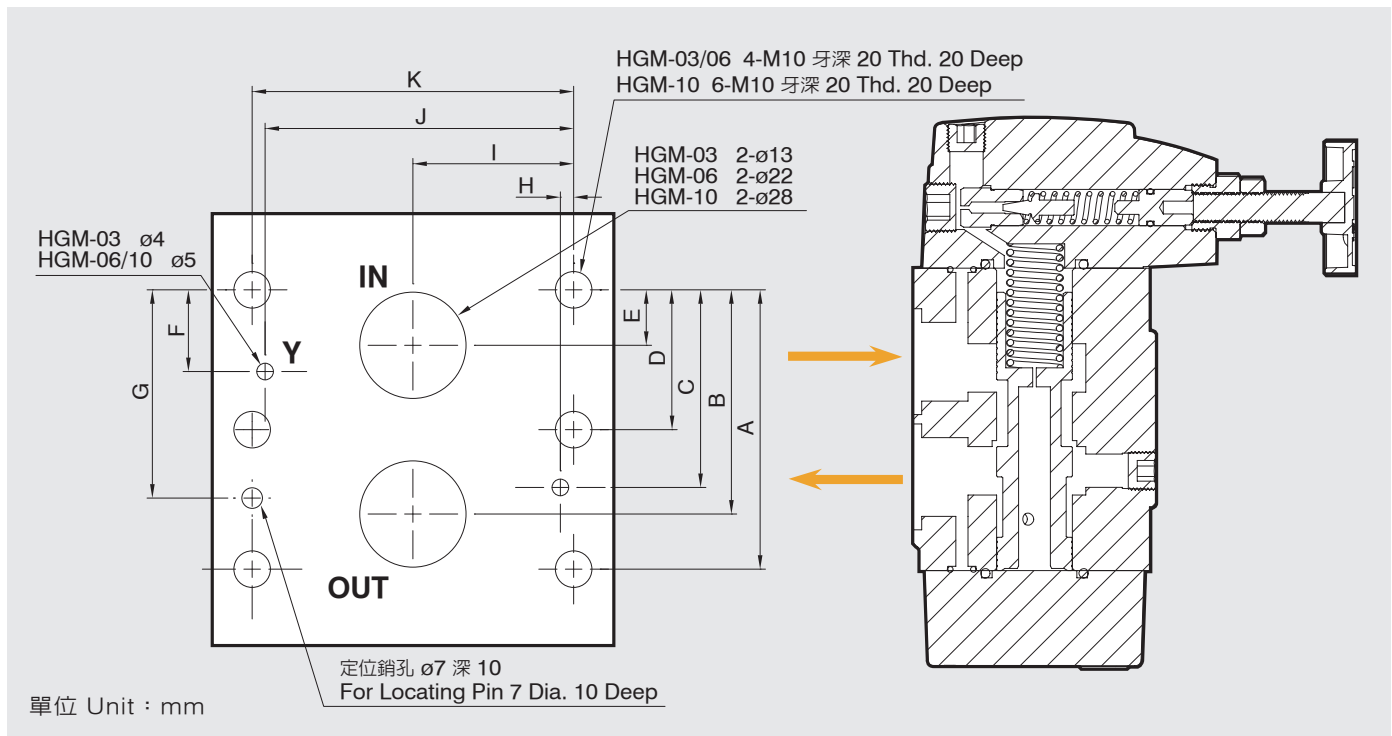
RG-03.06.10



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I			
RG-03	160	95	40.5	91	12.15	69	35	145	45.5			
RG-06	181	116.5	39.85	100	10.3	79	40	143	40			
RG-10	222	149	44.9	121	12.1	95	40	149	60.4			

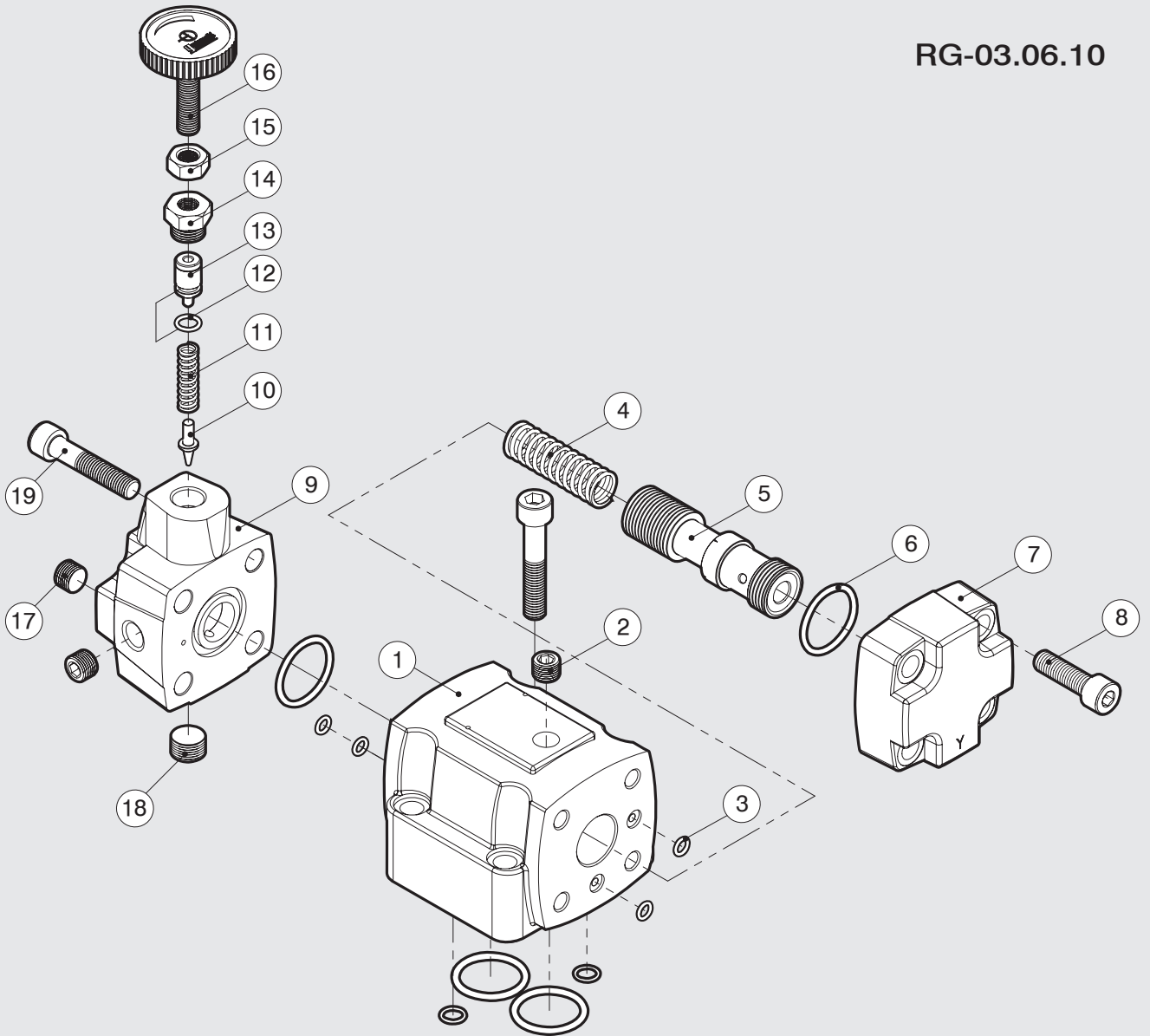
底板尺寸圖 Bottom plate dimensions



型號 Model	A	B	C	D	E	F	G	H	I	J	K	
RG-03 (HGM-03)	42.9	35.7	21.4		7.1	21.4	31.8	7.9	33.35	58.8	66.7	
RG-06 (HGM-06)	60.3	49.2	40.15		11.1	20.15	44.5	6.4	39.7	66.6	79.4	
RG-10 (HGM-10)	84.1	67.5	59.5	42.1	16.7	24.6	62.7	4	48.4	92.9	96.8	

爆炸圖 How to order for a complete assembled valve

RG-03.06.10



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	RG-03.06 JIS B 2401-1B-P6	4
	RG-10 JIS B 2401-1B-P9	4
4	彈簧 Spring	1
5	心軸 Spool	1
6	RG-03 JIS B 2401-1B-G25	2
	RG-06 JIS B 2401-1B-G30	2
	RG-10 JIS B 2401-1B-P34	2
7	閥蓋 Cover	1
8	RG-03 M8 x 35L	4
	RG-06 M10 x 35L	4
	RG-10 M12 x 40L	4

項次編號 No.	品名 Name of parts	數量 Q
9	閥蓋 Cover	1
10	針閥 Pilot poppet	1
11	彈簧 Spring	1
12	JIS B 2401-1A-P9	1
13	推桿 Push rod	1
14	把手螺母 Nut	1
15	六角螺母 Nut	1
16	壓力調整把手 Pressure adj. handle	1
17	PT 1/4	1
18	PT 3/8	1
19	RG-03 M8 x 45L	4
	RG-06 M10 x 50L	4
	RG-10 M12 x 45L	4

- RT 系列減壓閥是屬於支回路元件，其功能有二：
 - 用於設定低於主回路之壓力。
 - 可利用遠程控制口，作遠程控制用途。
- Pressure reducing valve RT series is used branch circuit there are two functions below:
 - Using to set the pressure below of the main hydraulic circuit.
 - By using the remote control port for operation of remote control.



RT-03.06.10

型號意義 How to order :

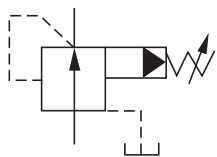
R T - 06 - ※

1	2	3	4
1	系列號	Series	
2	管式連接	Threaded connection	
3	口徑代號	Valve size 03:3/8", 04:1/2", 06:3/4", 10:1-1/4"	
4	壓力調整範圍	Pressure adjusting range	

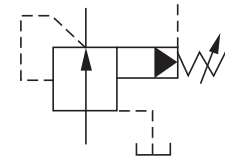
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
減壓閥 Reducing pressure valve	3/8	RT-03	B: 7~70	50	4.2
	1/2	RT-04	C: 35~140	50	4.2
	3/4	RT-06	H: 70~210	125	7.4
	1-1/4	RT-10		250	12

圖形符號 Graphic symbol :

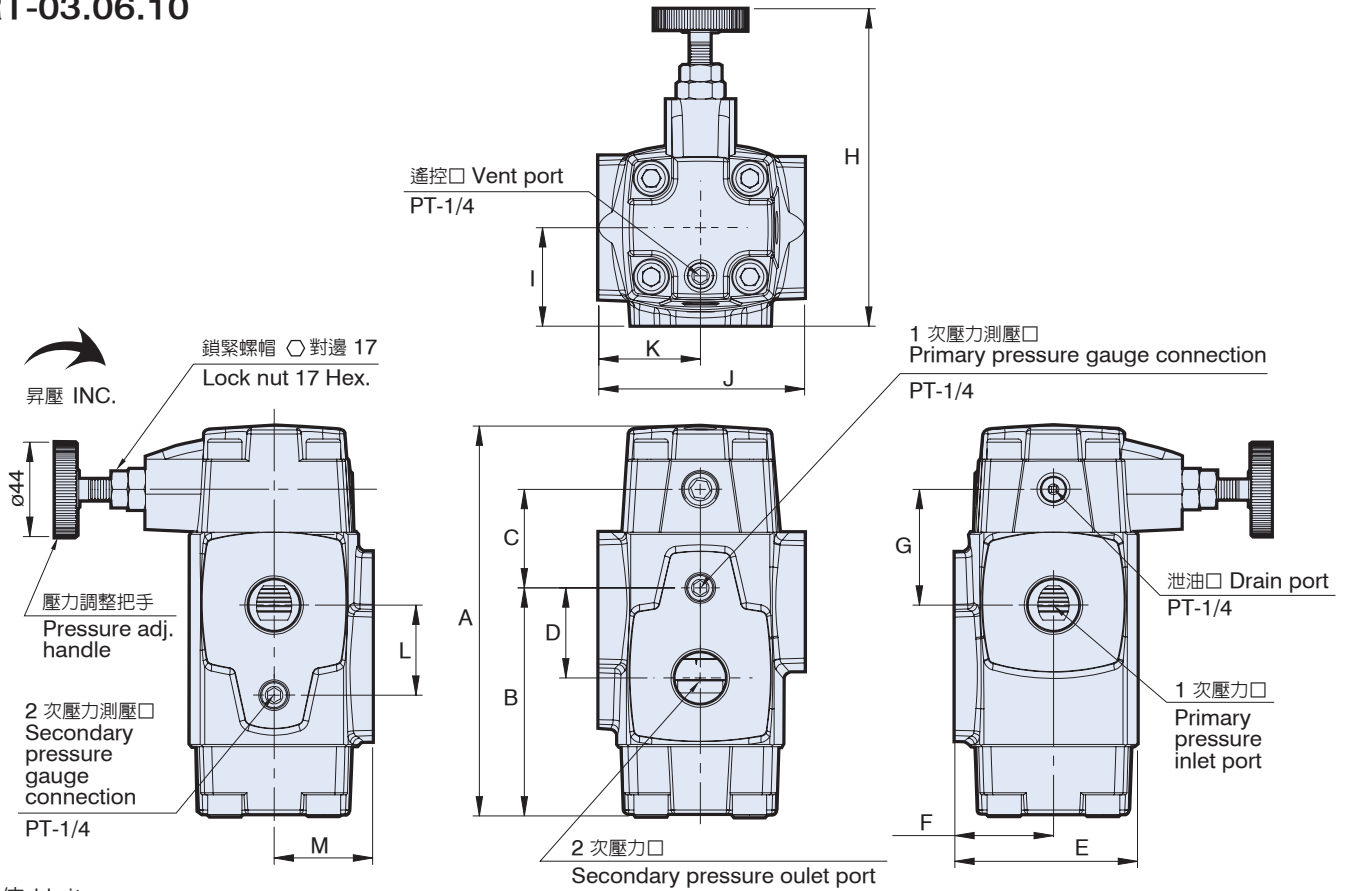


RT



利用遙控口時
Vent Connection

RT-03.06.10

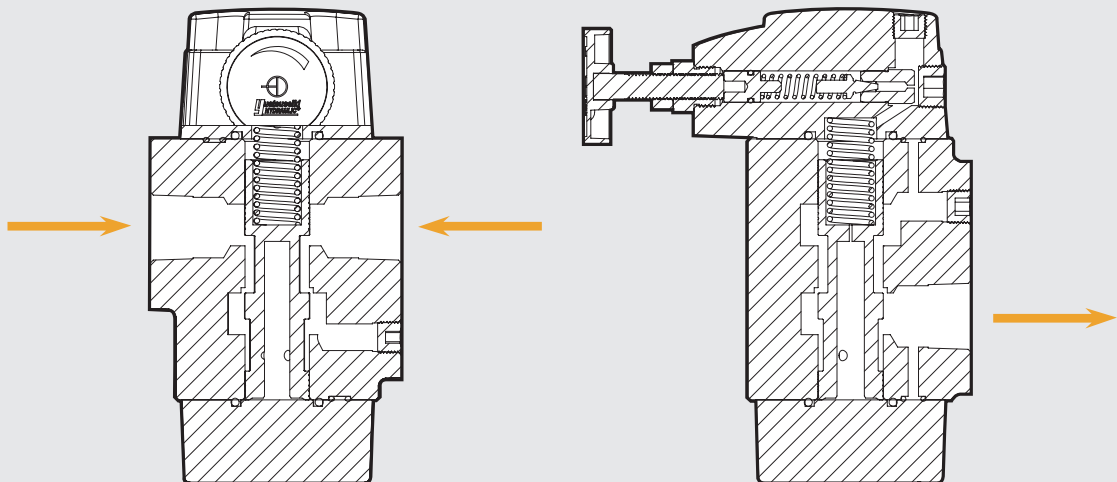


單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M
RT-03	159	89.5	46	30	74	41.5	47	151	41.5	80	40	30	41.5
RT-06	181	105.5	46	42	86	46	54	148.5	46	96	47.5	42	46
RT-10	222	139	56	52	105	60	67	162	60	126	63	52	60

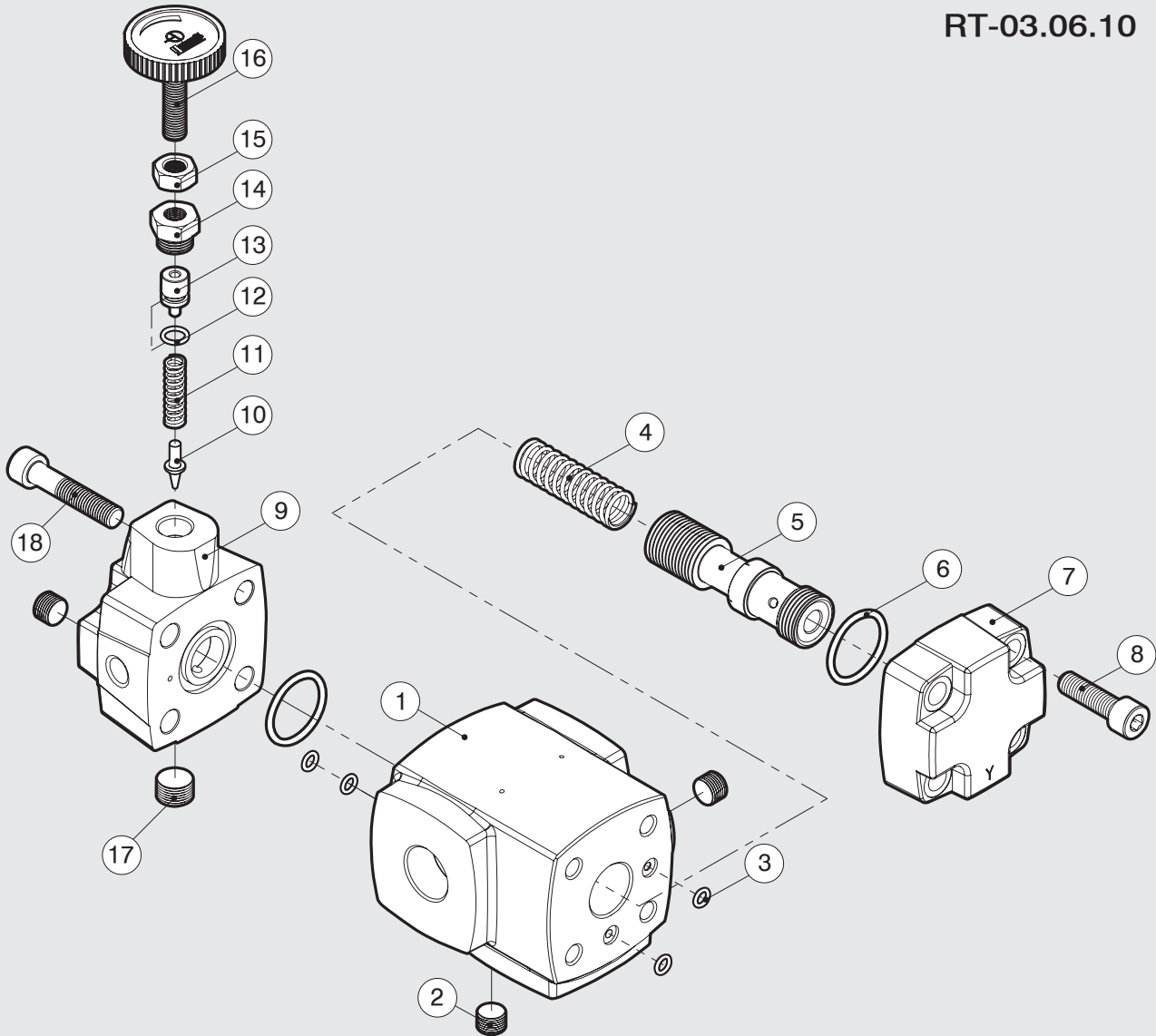
出入油標示 Inlet / outlet sign

RT-03.04.06



爆炸圖 How to order for a complete assembled valve

RT-03.06.10



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	3
3	RT-03.04.06 JIS B 2401-1B-P6	4
	RT-10 JIS B 2401-1B-P9	4
4	彈簧 Spring	1
5	心軸 Spool	1
6	RT-03.04 JIS B 2401-1B-G25	2
	RT-06 JIS B 2401-1B-G30	2
	RT-10 JIS B 2401-1B-P34	2
7	閥蓋 Cover	1
8	RT-03.04 M8 x 35L	4
	RT-10 M12 x 40L	4

項次編號 No.	品名 Name of parts	數量 Q
9	閥蓋 Cover	1
10	針閥 Pilot poppet	1
11	彈簧 Spring	1
12	JIS B 2401-1A-P9	1
13	推桿 Push rod	1
14	把手螺母 Nut	1
15	六角螺母 Nut	1
16	壓力調整把手 Pressure adj. handle	1
17	PT 3/8	1
18	RT-03.04 M8 x 45L	4
	RT-06 M10 x 50L	4
	RT-10 M12 x 45L	4

- RCG 系列單向減壓閥是屬於支回路，其功能有二：
 - (1) 用於設定低於主回路之壓力。
 - (2) 可利用遠程控制口，作遠程控制用途。
- One-way pressure reducing with check valve is used branch circuit there are two functions below:
 - (1) Using to set the pressure below of the main hydraulic circuit.
 - (2) By using the remote control port for operation of remote control.



RCG-03.06.10

型號意義 How to order :

R C G - 06 - ※
 1 2 3 4 5

1 系列號	Series
2 附止回閥	With check valve
3 板式連接	SUB-Plate mounting
4 口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
5 壓力調整範圍	Pressure adjusting range

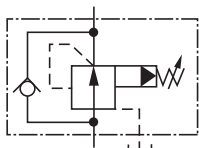
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pressure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
減壓閥附止回閥 Reducing pressure with check valve	3/8	RCG-03	B: 7~70	50	5.4
	3/4	RCG-06	C: 35~140	125	8.4
	1-1/4	RCG-10	H: 70~210	250	13.8

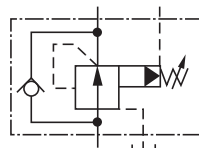
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
RCG-03	M10 x 70L 4 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P20 2 條 piece
RCG-06	M10 x 80L 4 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P29 2 條 piece
RCG-10	M10 x 90L 4 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P38 2 條 piece

圖形符號 Graphic symbol :

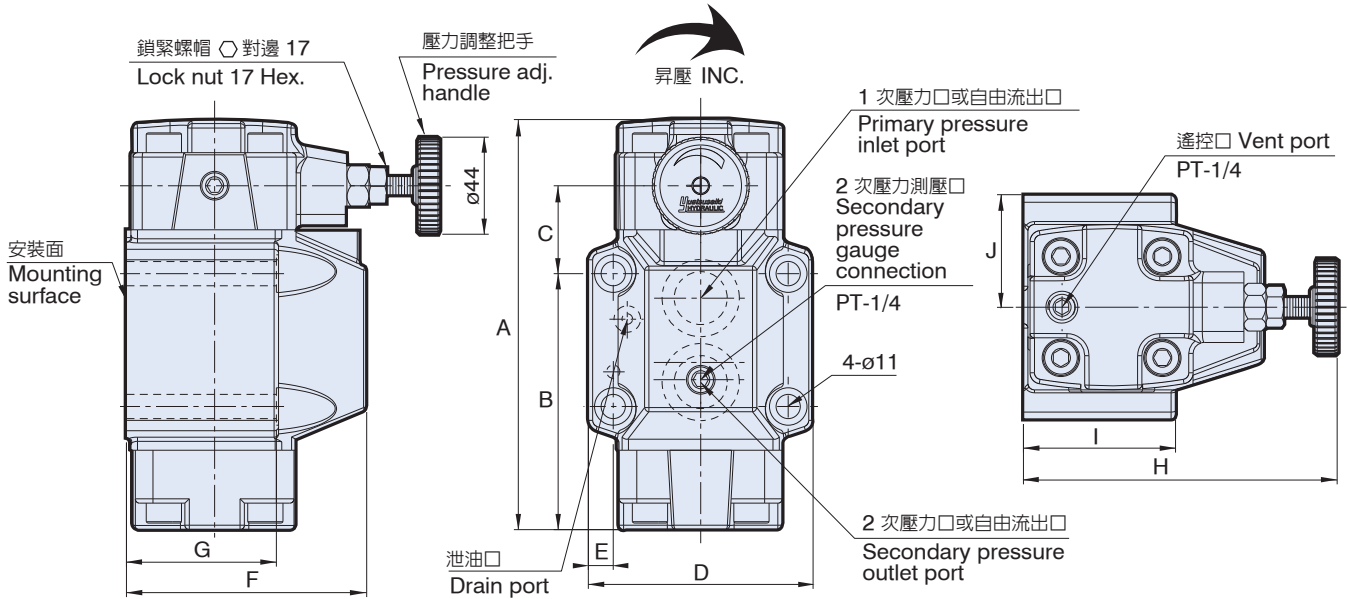


RCG



利用遙控口時
Vent Connection

RCG-03.06.10



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J
RCG-03	160	94.9	40.6	89	11.15	90	55	142.7	59	44.5
RCG-06	181	111.65	39.85	102	11.3	109	65	142.5	69	51
RCG-10	222	149	44.9	119	11.1	131	75	150	81	59.5

※ 底板尺寸圖，請參照 P.72

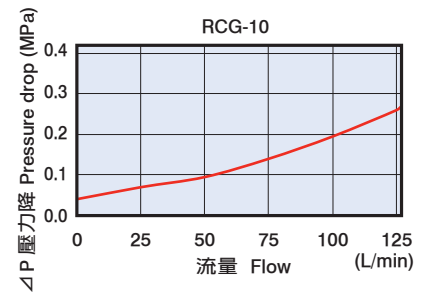
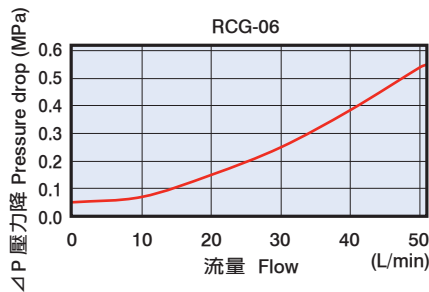
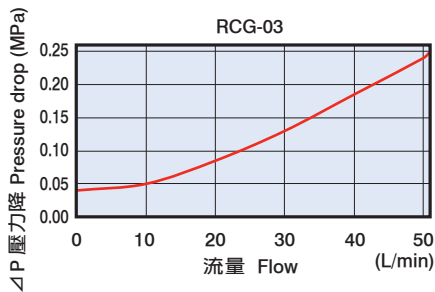
※ Plate size drawing, please refer to Page.72

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
比重 Specific gravity of 0.850

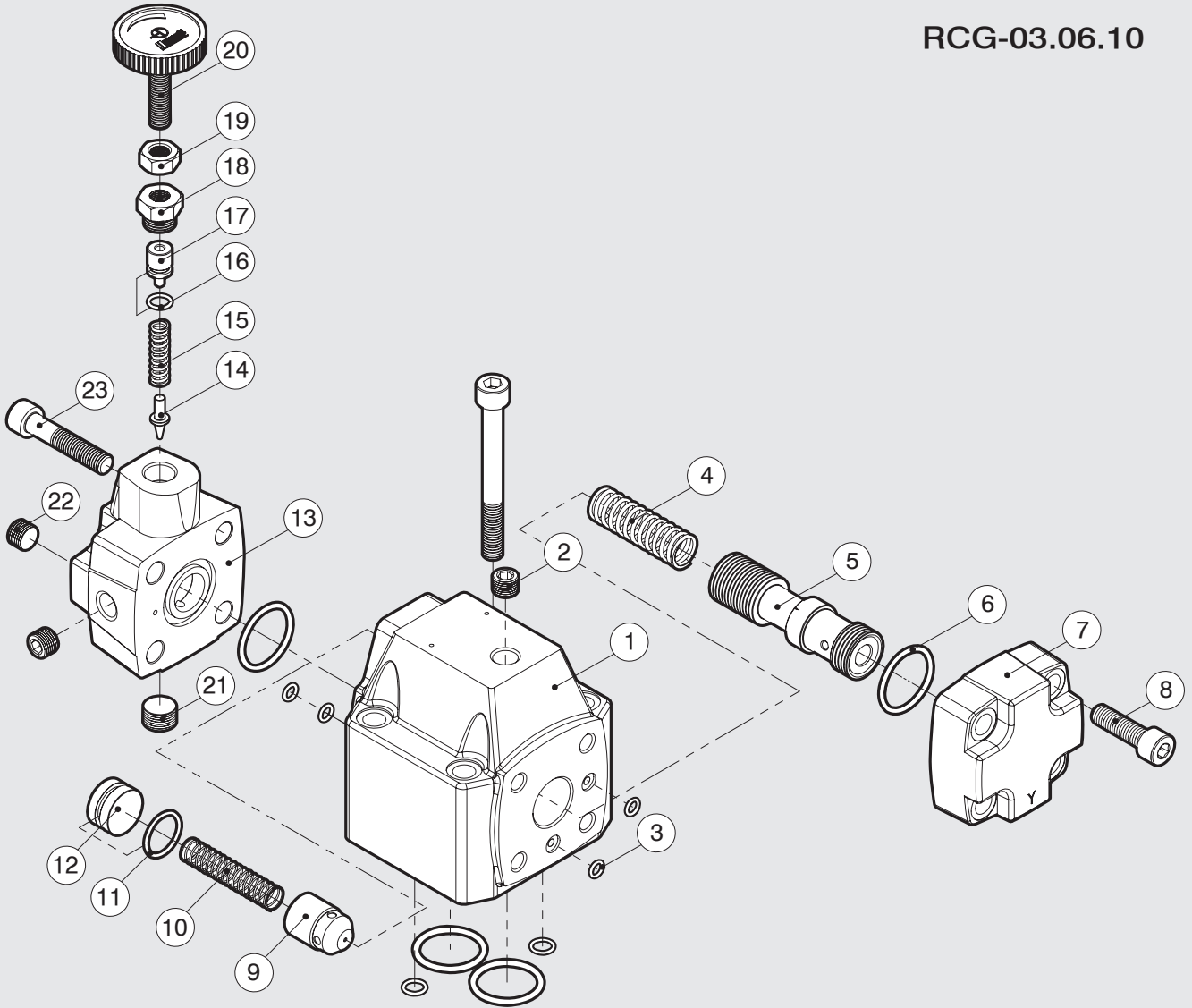


■ 粘度係數表 Viscosity

粘度 Viscosity	mm ² /s {cSt}	15	20	30	40	50	60	70	80	90	100
SSU		77	98	141	186	232	278	324	371	471	464
係數 Coefficient		0.81	0.87	0.96	1.03	1.09	1.14	1.19	1.23	1.27	1.30

爆炸圖 How to order for a complete assembled valve

RCG-03.06.10



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	RCG-03.06 JIS B 2401-1B-P6	4
	RCG-10 JIS B 2401-1B-P9	4
4	彈簧 Spring	1
5	心軸 Spool	1
6	RCG-03 JIS B 2401-1B-G25	2
	RCG-06 JIS B 2401-1B-G30	2
	RCG-10 JIS B 2401-1B-P34	2
7	閥蓋 Cover	1
8	RCG-03 M8 x 35L	4
	RCG-06 M10 x 35L	4
	RCG-10 M12 x 40L	4
9	槍子閥 Check valve	1
10	止回閥彈簧 Spring	1
11	RCG-03 JIS B 2401-1A-P12	1

項次編號 No.	品名 Name of parts	數量 Q
11	RCG-06 JIS B 2401-1A-P20	1
	RCG-10 JIS B 2401-1A-P22A	1
12	推桿 Push rod	1
13	壓力調整閥蓋 Cover	1
14	針閥 Pilot poppet	1
15	彈簧 Spring	1
16	JIS B 2401-1A-P9	1
17	推桿 Push rod	1
18	把手螺母 Nut	1
19	六角螺母 Nut	1
20	壓力調整把手 Pressure adj. handle	1
21	PT 3/8	1
22	PT 1/4	2
	RCG-03 M8 x 45L	4
	RCG-06 M10 x 45L	4
23	RCG-10 M12 x 45L	4

- RCT 系列單向減壓閥是屬於支回路元件，其功能有二：
 - 用於設定低於主回路之壓力。
 - 可利用遠程控制口，作遠程控制用途。
- One-way pressure reducing with check valve is used branch circuit there are two functions below:
 - Using to set the pressure below of the main hydraulic circuit.
 - By using the remote control port for operation of remote control.



RCT-03.06.10

型號意義 How to order :

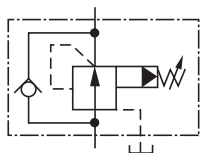
R C T - 06 - ※
1 2 3 4 5

1	系列號	Series
2	附止回閥	With check valve
3	管式連接	Threaded connection
4	口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
5	壓力調整範圍	Pressure adjusting range

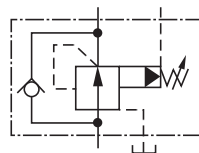
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	壓力調整範圍 Pessure Adj. Range (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
減壓閥附止回閥 Reducing pressure with check valve	3/8	RCT-03	B: 7~70	50	4.6
	3/4	RCT-06	C: 35~140	125	8.1
	1-1/4	RCT-10	H: 70~210	250	13.8

圖形符號 Graphic symbol :

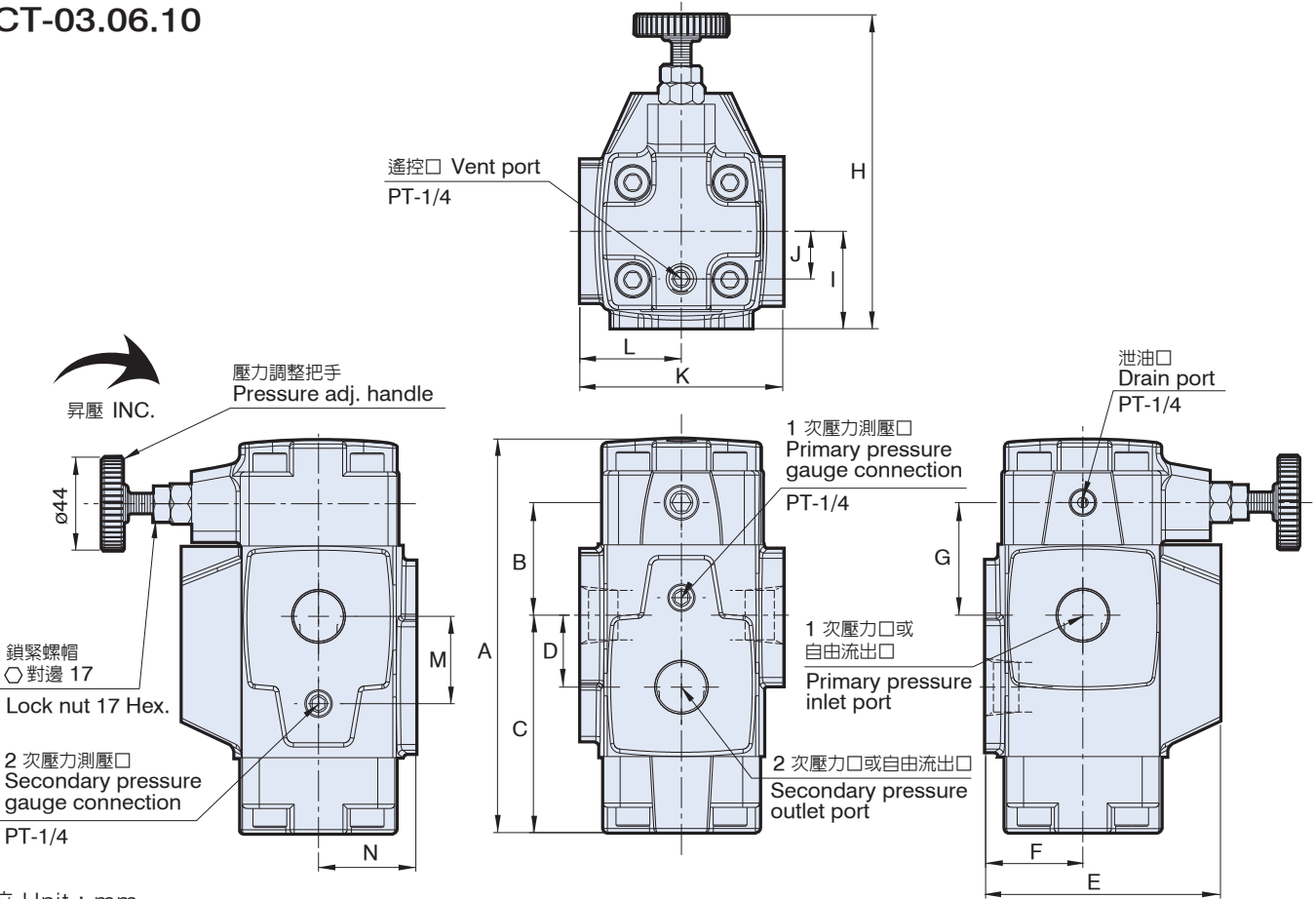


RCT



利用遙控口時
Vent Connection

RCT-03.06.10



單位 Unit : mm

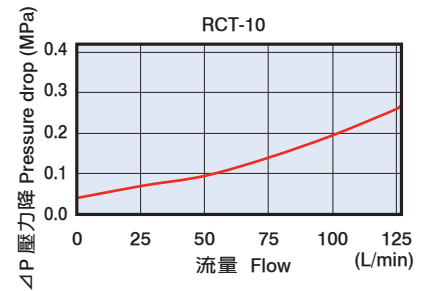
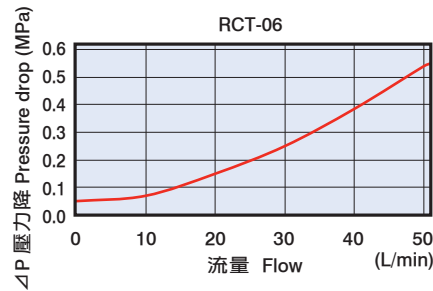
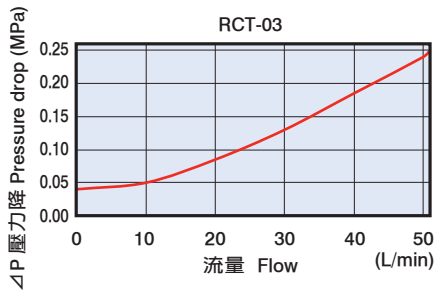
型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
RCT-03	159	48	87.5	30	95	41.5	47	148.7	41.5	14.75	80	40	30	41.5
RCT-06	181	54.5	97	34	111	46	54.5	148.1	46	22.5	96	48	42	46
RCT-10	221	67	193	40	154	64	67	166	64	30	133	66.5	53	64

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

The characteristic curve chart of Flow vs. Pressure

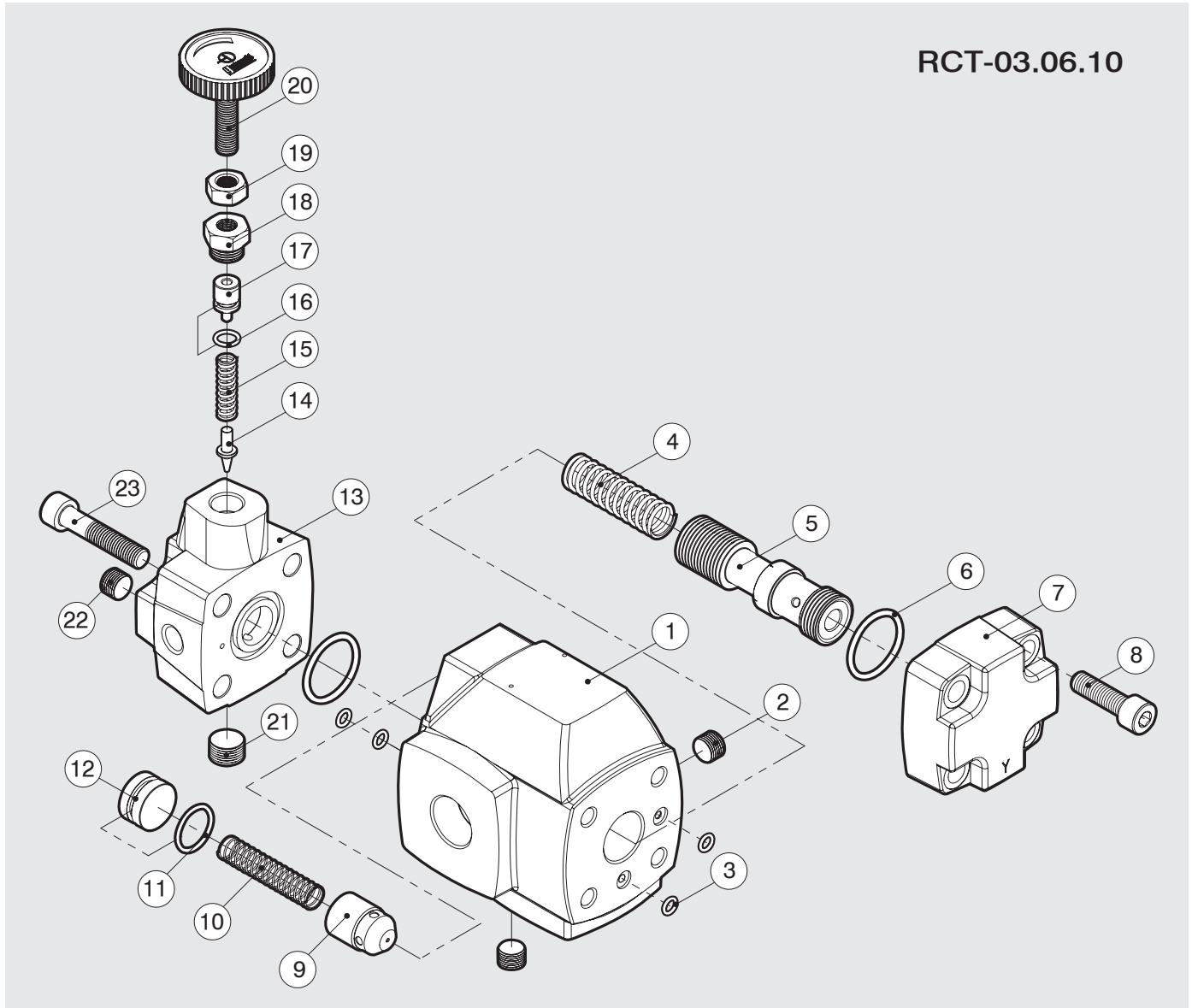
使用油：黏度 Test fluid viscosity: 35mm²/s{cSt}
 比重 Specific gravity of 0.850



■ 粘度係數表 Viscosity

粘度 Viscosity	mm ² /s{cSt}	15	20	30	40	50	60	70	80	90	100
係數 Coefficient	SSU	77	98	141	186	232	278	324	371	471	464
		0.81	0.87	0.96	1.03	1.09	1.14	1.19	1.23	1.27	1.30

爆炸圖 How to order for a complete assembled valve



RCT-03.06.10

壓力控制閥 減壓閥附止回閥
Pressure Control Valve (Pressure reducing valve with check valve)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	2
3	RCT-03.06 JIS B 2401-1B-P6	4
	RCT-10 JIS B 2401-1B-P9	4
4	彈簧 Spring	1
5	心軸 Spool	1
6	RCT-03 JIS B 2401-1B-G25	2
	RCT-06 JIS B 2401-1B-G30	2
	RCT-10 JIS B 2401-1B-P34	2
7	閥蓋 Cover	1
8	RCT-03 M8 x 35L	4
	RCT-06 M10 x 35L	4
	RCT-10 M12 x 40L	4
9	槍子閥 Check valve	1
10	止回閥彈簧 Spring	1
11	RCT-03 JIS B 2401-1A-P12	1

項次編號 No.	品名 Name of parts	數量 Q
11	RCT-06 JIS B 2401-1A-P20	1
	RCT-10 JIS B 2401-1A-P22A	1
12	推桿 Push rod	1
13	壓力調整閥蓋 Cover	1
14	針閥 Pilot poppet	1
15	彈簧 Spring	1
16	JIS B 2401-1A-P9	1
17	推桿 Push rod	1
18	把手螺母 Nut	1
19	六角螺母 Nut	1
20	壓力調整把手 Pressure adj. handle	1
21	PT 3/8	1
22	PT 1/4	1
23	RCT-03 M8 x 45L	4
	RCT-06 M10 x 50L	4
	RCT-10 M12 x 45L	4

- 無電磁閥之流量調整控制閥。
- Flow control valve with no solenoid valve.



THF-06

型號意義 How to order :

THE - 06

1 2

1	系列號	Series
2	口徑代號	Valve size 06:3/4"

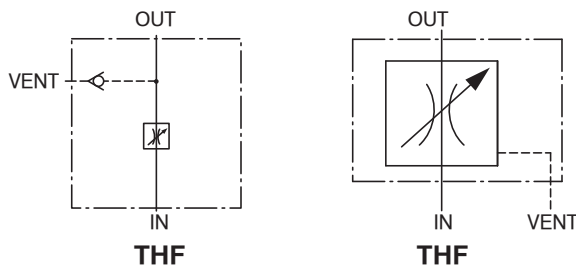
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
節流閥 Flow control valve	3/4	THF-06	125	5.4

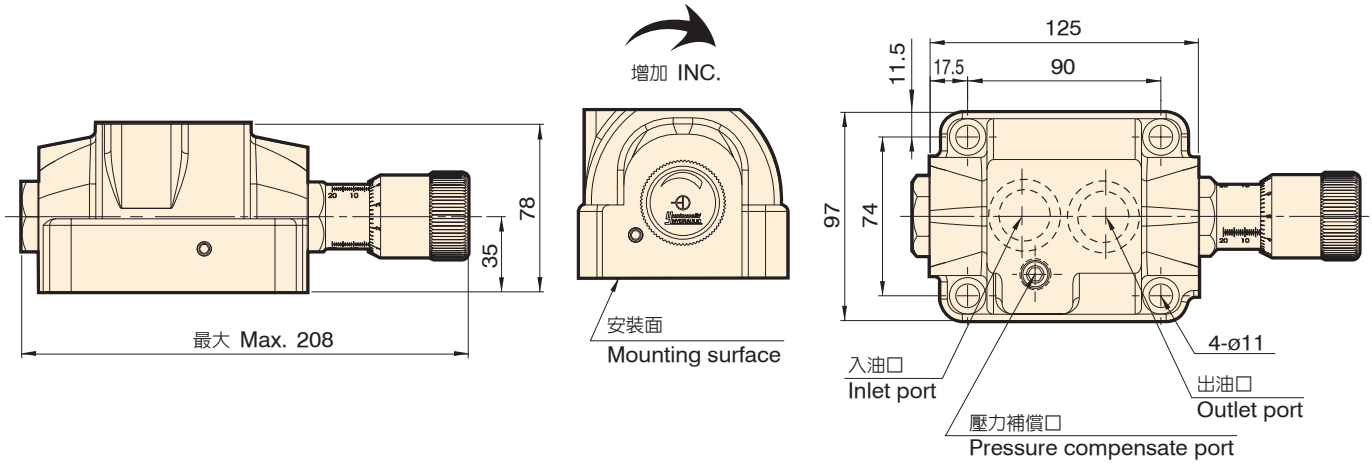
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
THF-06	M10 x 45L 4 支 piece	JIS B 2401-1B-P12 2 條 piece JIS B 2401-1B-P29 2 條 piece

圖形符號 Graphic symbol :



THF-06

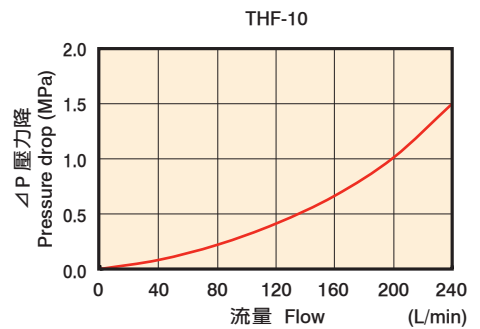
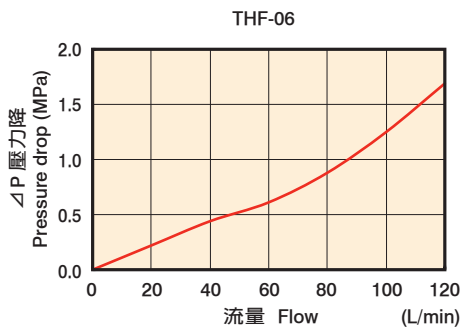


單位 Unit : mm

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖
The characteristic curve chart of Flow vs. Pressure

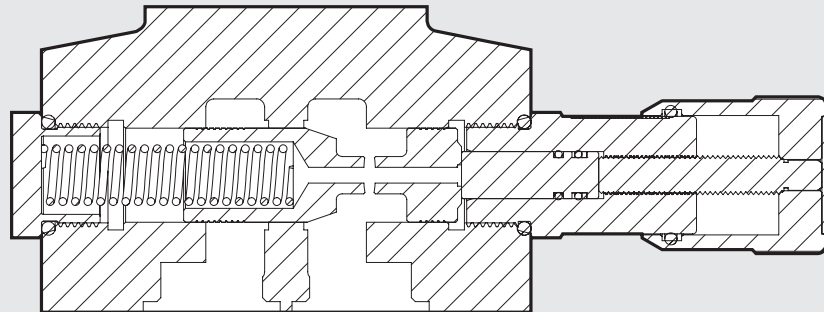
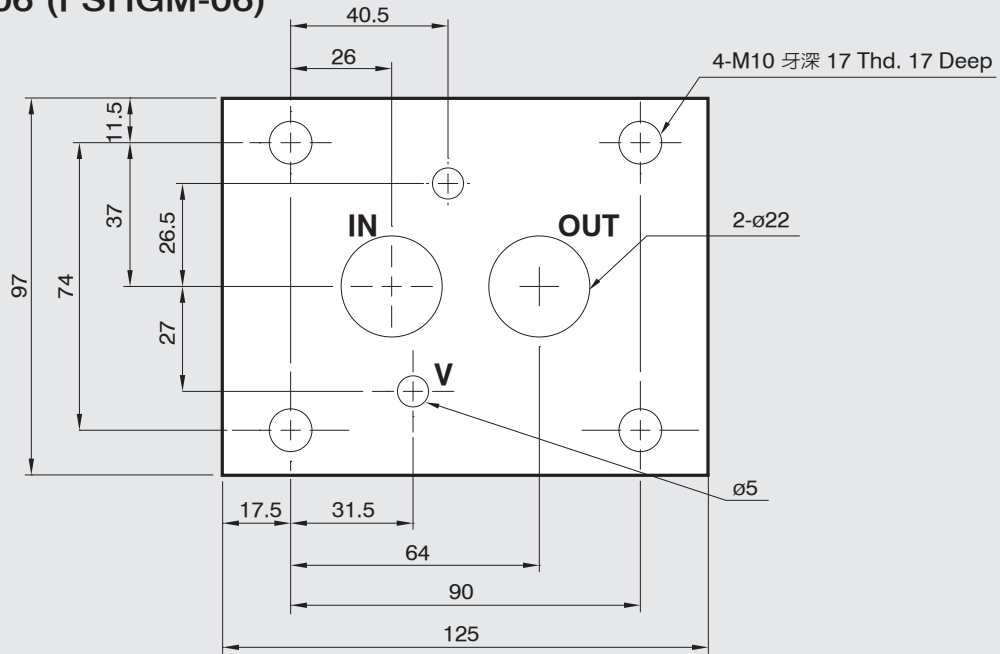
使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
Test temperature 50°C



底板尺寸圖 Bottom plate dimensions

流量控制閥 節流閥
Flow Control Valve (Flow control valve)

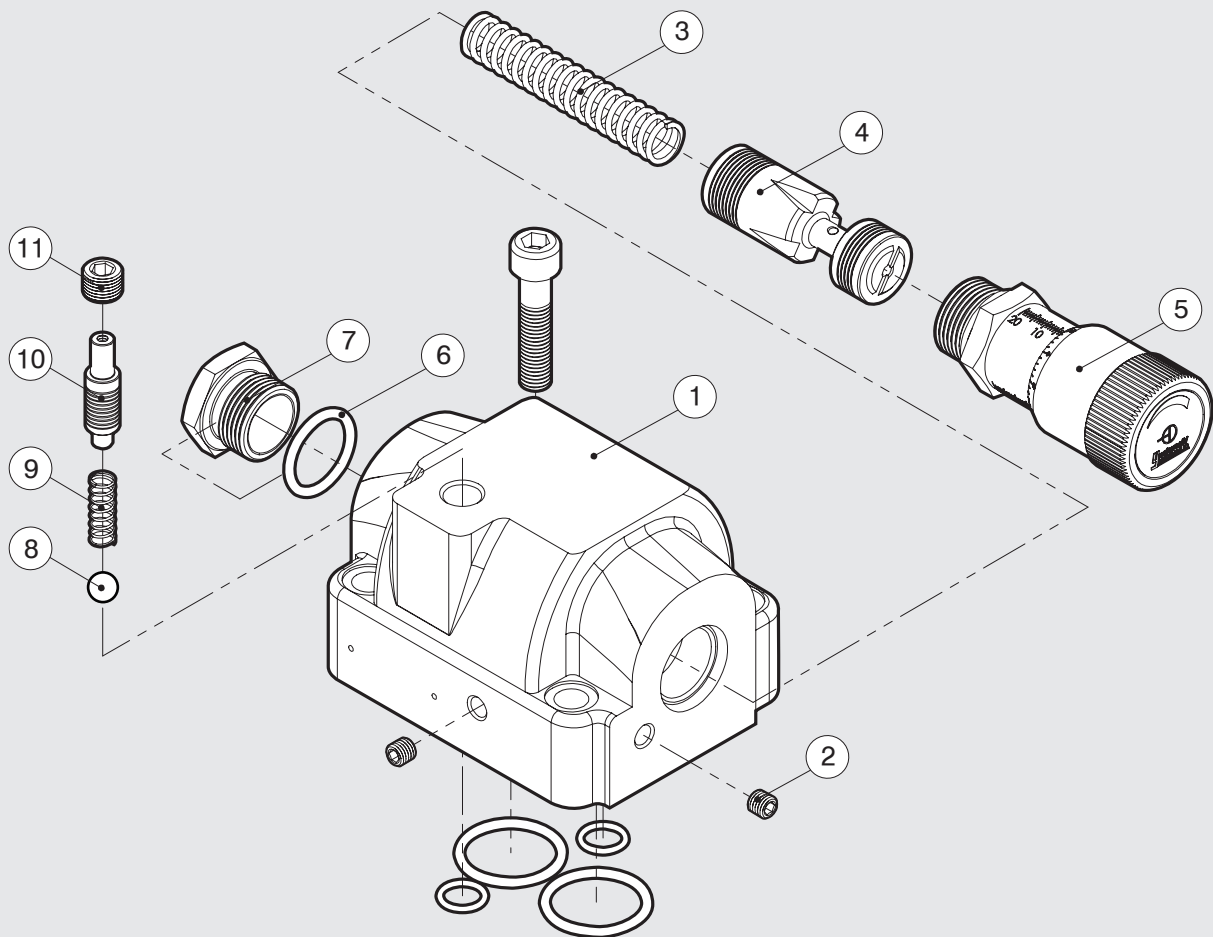
THF-06 (FSHGM-06)



單位 Unit : mm

爆炸圖 How to order for a complete assembled valve

THF-06



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/16	2
3	彈簧 Spring	1
4	心軸 Spool	1
5	微調把手 Fine-tune the handle	1
6	JIS B 2401-1A-P24	2

項次編號 No.	品名 Name of parts	數量 Q
7	螺母 Nut	1
8	鋼珠 Ball	1
9	彈簧 Spring	1
10	推桿 Push rod	1
11	PT 1/4	1

- SD 系列電磁控制式節流閥之構造，是由流量控制閥和電磁閥組成。
- 在通常情況下，油路不通。當電磁閥作動時，油路即自由流通。
- Solenoid operated flow control valve SD series is composed of flow control valve and solenoid valve.
- The circuit is closed normally, when turn the solenoid valve on, circuit is open to flow.


SD-03.06.10

型號意義 How to order :

SD - 06

1	2
1 系列號	Series
2 口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"

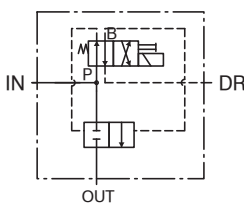
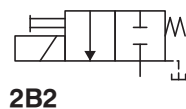
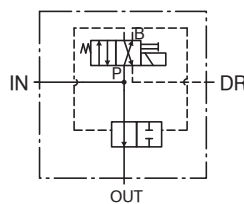
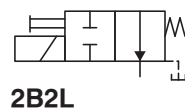
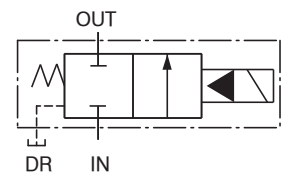
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
電磁控制式節流閥 Solenoid operated flow control valve	3/8	SD-03	50	2.9
	3/4	SD-06	125	5.2
	1-1/4	SD-10	240	8.2

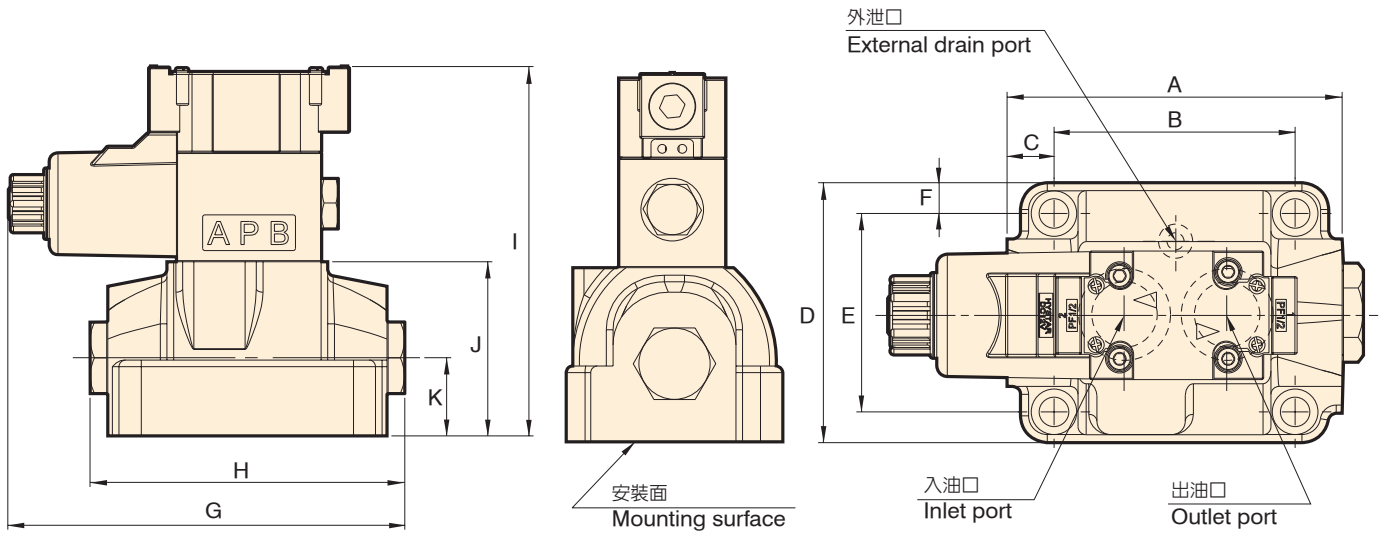
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring		
SD-03	M6 x 65L	4 支 piece	JIS B 2401-1B-P10A	2 條 piece	JIS B 2401-1B-P18 2 條 piece
SD-06	M10 x 45L	4 支 piece	JIS B 2401-1B-P12	2 條 piece	JIS B 2401-1B-P29 2 條 piece
SD-10	M12 x 55L	4 支 piece	JIS B 2401-1B-P12	2 條 piece	JIS B 2401-1B-P34 2 條 piece

圖形符號 Graphic symbol :


SD

2B2

SD

2B2L

SD

SD-03.06.10



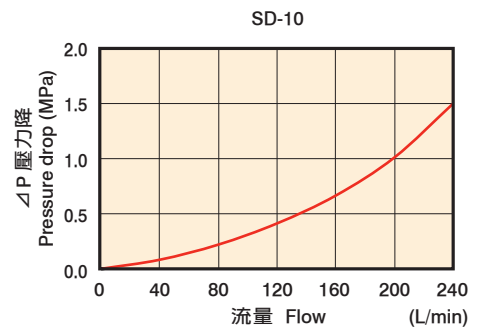
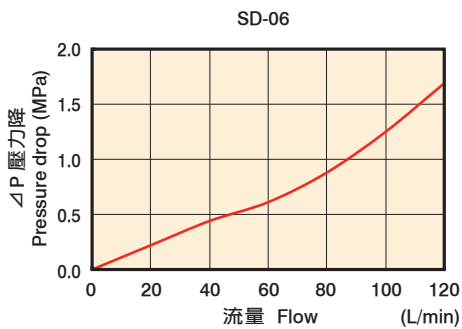
單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K			
SD-03	108	60	24	70	40	15	169	122	149	62	55			
SD-06	125	90	17.5	97	74	11.5	178	141	166	78	35			
SD-10	150	112	19	116	86	15	200	166	176	88	42			

性能曲線圖 Performance curves

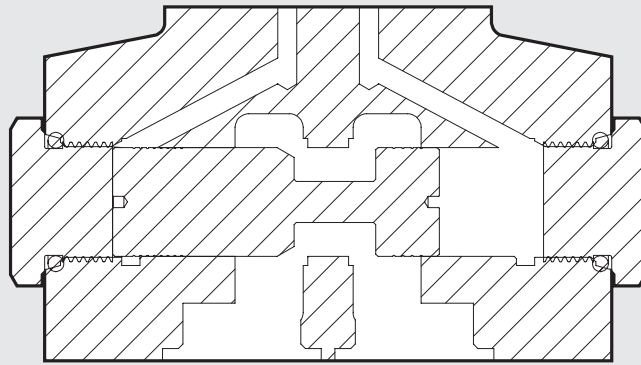
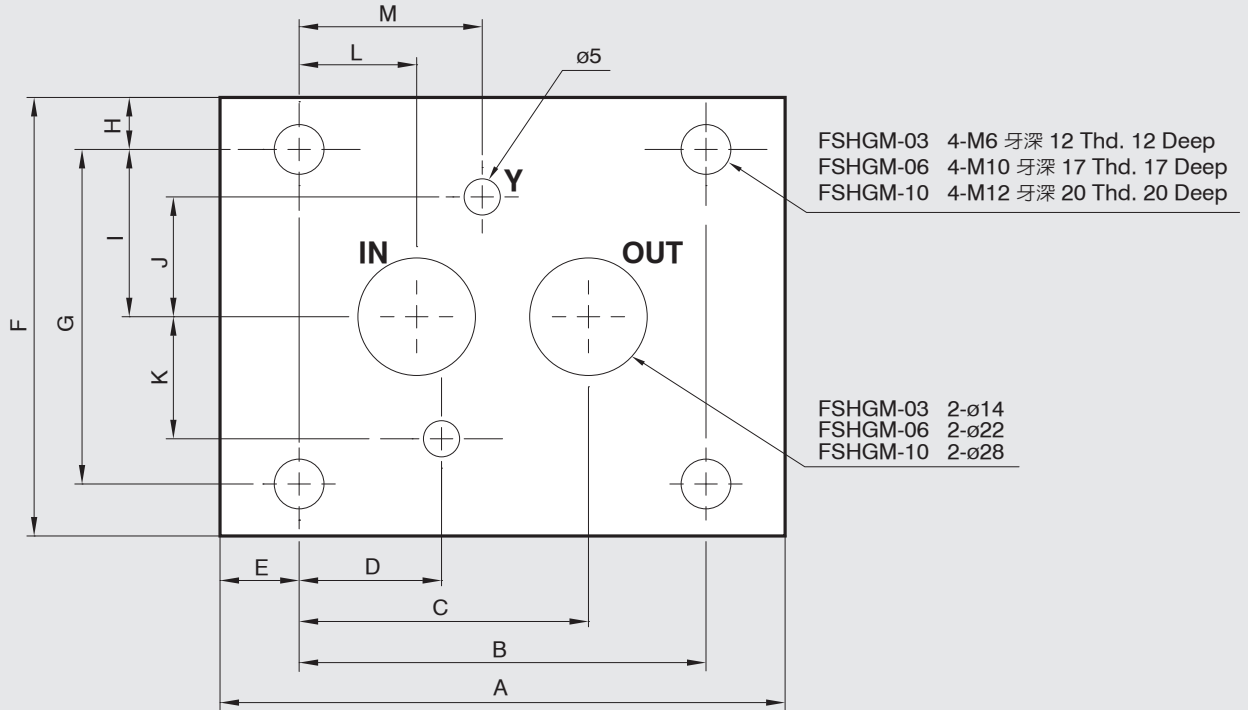
■ 流量-壓力特性曲線圖 The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
Test temperature 50 °C



底板尺寸圖 Bottom plate dimensions

流量控制閥 電磁控制式節流閥
Flow Control Valve (Solenoid operated flow control valve)

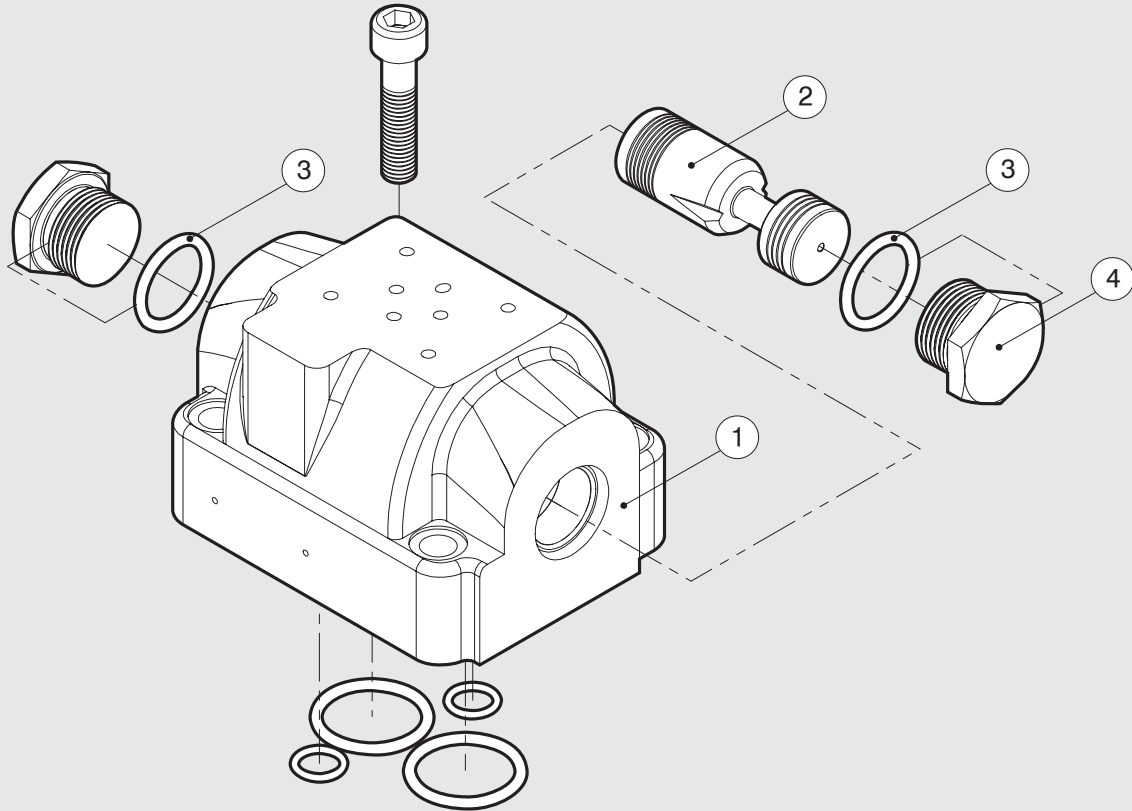


單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M
SD-03 (FSHGM-03)	108	60	45	30	24	70	40	15	20	20	20	15	30
SD-06 (FSHGM-06)	125	90	64	31.5	17.5	97	74	11.5	37	26.5	27	26	40.5
SD-10 (FSHGM-10)	150	112	78	37.7	19	116	86	15	43	32	32	34	46.5

爆炸圖 How to order for a complete assembled valve

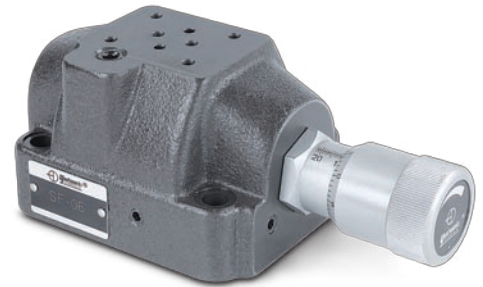
SD-03.06.10



流量控制閥 電磁控制式節流閥
Flow Control Valve (Solenoid operated flow control valve)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	心軸 Spool	1
3	SD-03 JIS B 2401-1A-P20	2
	SD-06 JIS B 2401-1A-P24	2
	SD-10 JIS B 2401-1A-P32	2
4	螺母 Nut	2

- SF 系列電磁控制式節流閥之構造，是由可調式流量控制閥和電磁閥組成。再通常情況下，油路可自由流通，當電磁閥作動時，可作流量大小之調整。
- SF 系列節流閥適合使用在需要快慢兩段速度控制之迴路中。
- Solenoid operated flow control valve SF series is composed of adjustable flow control valve and solenoid valve. The circuit is open normally, when turn the solenoid valve on, the flow is adjustable.
- Flow control valve SF series is used on circuit with both fast-slow speed.



SF-03.06.10

流量控制閥 電磁控制式節流閥
Flow Control Valve (Solenoid operated flow control valve)

型號意義 How to order :

SF - 06 - E - L

1	2	3	4
1 系列號	Series		
2 口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"		
3 無記號:內部控制油供給, 外部控制油泄油	No code: Pilot oil supply internal, pilot oil drain external		
E:外部控制油供給, 外部控制油泄油	E: Pilot oil supply external, pilot oil drain external		
4 無記號:標準 L:反向	No code: Standard L: In reverse		

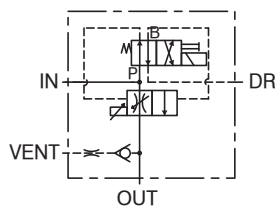
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
電磁控制式節流閥 Solenoid operated flow control valve	3/8	SF-03	50	2.9
	3/4	SF-06	125	5.3
	1-1/4	SF-10	240	8.9

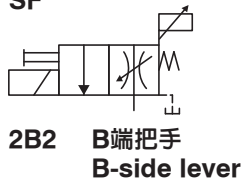
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring		
SF-03	M6 x 65L	4 支 piece	JIS B 2401-1B-P10A	2 條 piece	JIS B 2401-1B-P18 2 條 piece
SF-06	M10 x 45L	4 支 piece	JIS B 2401-1B-P12	2 條 piece	JIS B 2401-1B-P29 2 條 piece
SF-10	M12 x 55L	4 支 piece	JIS B 2401-1B-P12	2 條 piece	JIS B 2401-1B-P34 2 條 piece

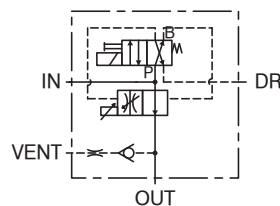
圖形符號 Graphic symbol :



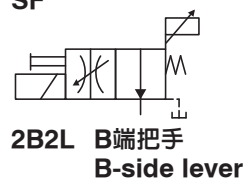
SF



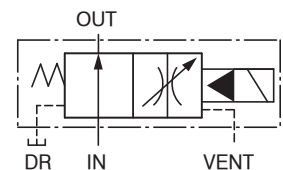
2B2 B端把手
B-side lever



SF

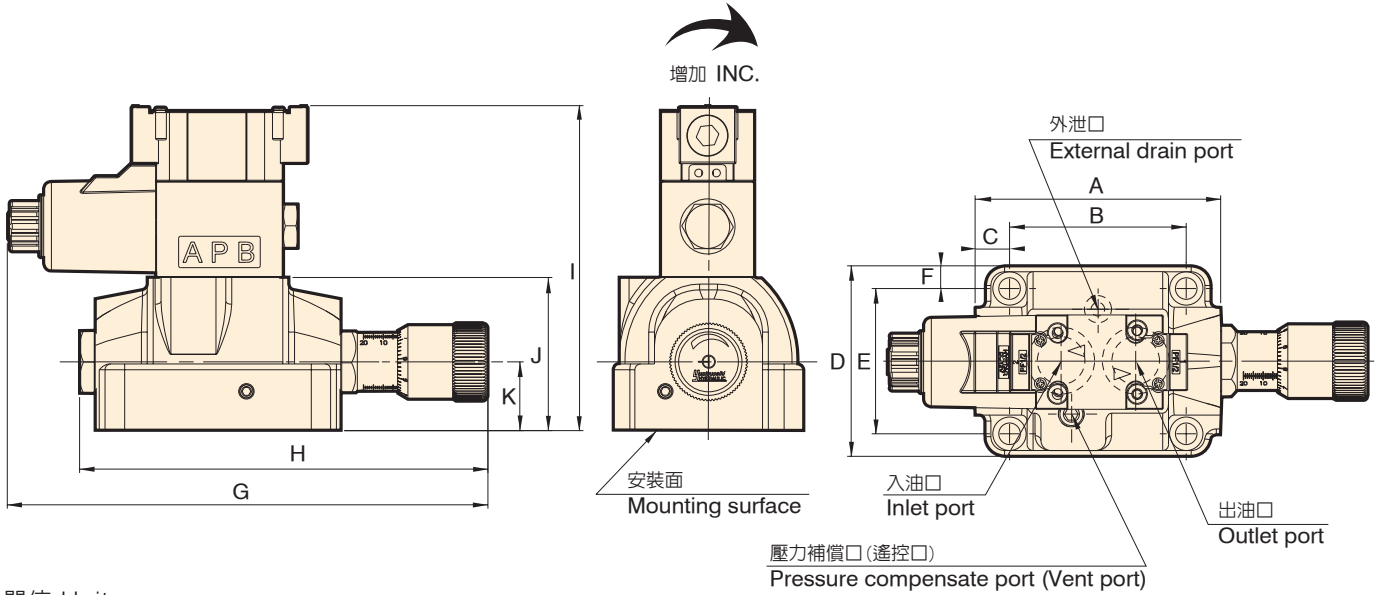


2B2L B端把手
B-side lever



SF

SF-03.06.10



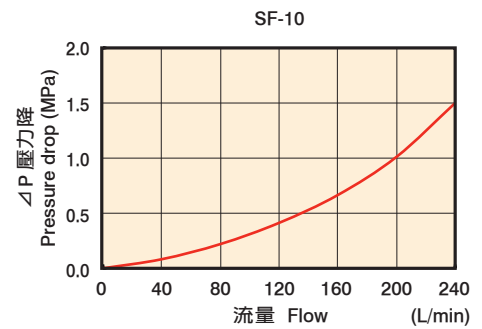
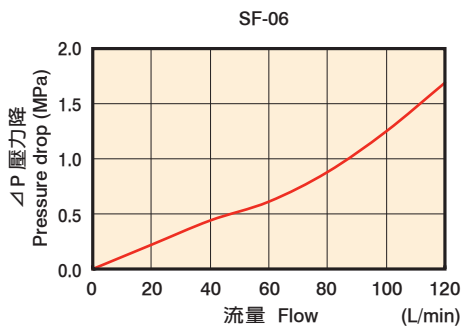
單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K			
SF-03	108	60	24	70	40	15	237	168	149	62	55			
SF-06	125	90	17.5	97	74	11.5	245	208	166	78	35			
SF-10	150	112	19	116	86	15	281	246	176	88	42			

性能曲線圖 Performance curves

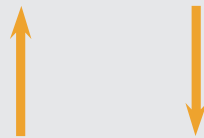
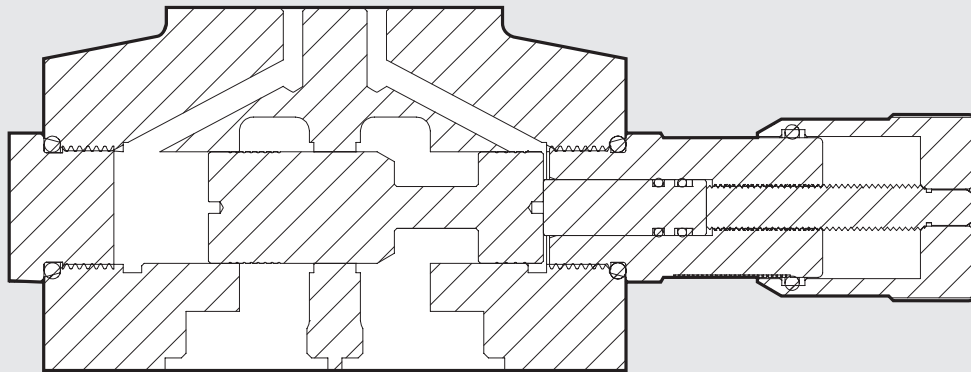
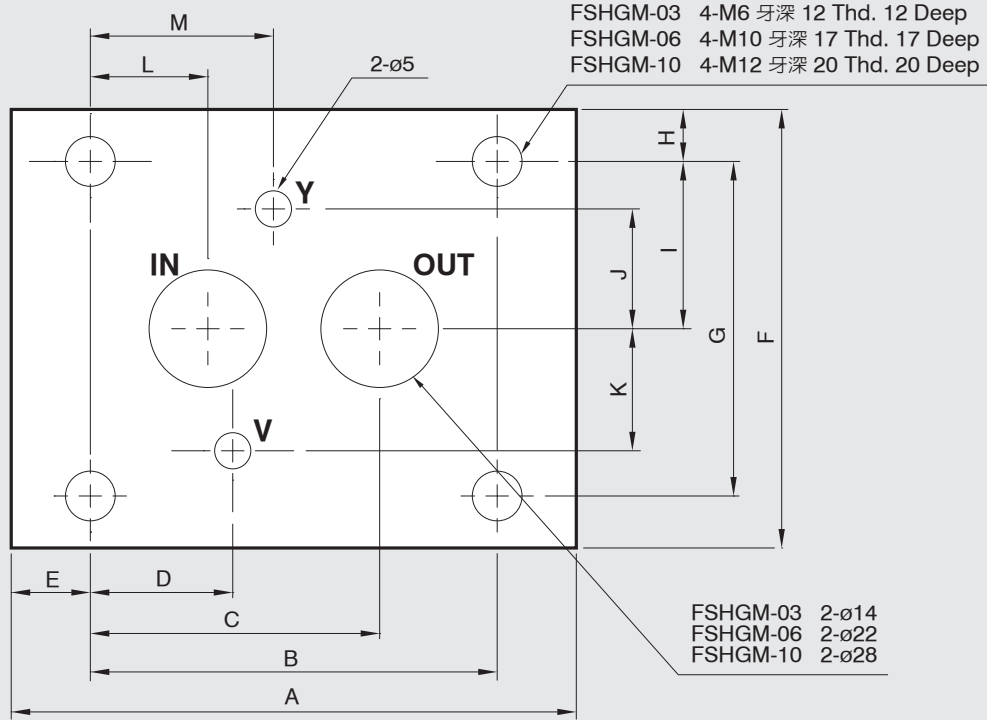
■ 流量-壓力特性曲線圖
The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
Test temperature 50°C



底板尺寸圖 Bottom plate dimensions

流量控制閥 電磁控制式節流閥
Flow Control Valve (Solenoid operated flow control valve)



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M
SF-03 (FSHGM-03)	108	60	45	30	24	70	40	15	20	20	20	15	30
SF-06 (FSHGM-06)	125	90	64	31.5	17.5	97	74	11.5	37	26.5	27	26	40.5
SF-10 (FSHGM-10)	150	112	78	37.7	19	116	86	15	43	32	32	34	46.5

- SDF 系列電磁控制節流閥之構造，是由流量控制閥和電磁閥組成。在通常情況下，油路不通，當電磁閥作動時，可作流量大小調整。
- 此系列節流閥適合迴路動作之開啓和停止控制。並且要求速度控制之場合。
- Solenoid operated flow control valve SDF series is composed of flow control valve and solenoid valve. The circuit is closed normally, when turn the solenoid valve on, the flow is adjustable.
- This flow control valve is used to control for circuit open and close, and situation needs to request for speed control.



SDF-03.06.10

流量控制閥 電磁控制式節流閥
Flow Control Valve (Solenoid operated flow control valve)

型號意義 How to order :

SDF - 06

1 2

1 系列號	Series
2 □徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
3 無記號:內部控制油供給，外部控制油泄油	No code: Pilot oil supply Internal, pilot oil drain external

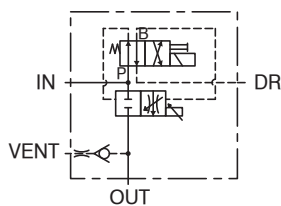
產品規格 Specification :

名稱 Name	□徑 Valve Size	型號 Model	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
電磁控制式節流閥 Solenoid operated flow control valve	3/8	SDF-03	50	2.9
	3/4	SDF-06	125	5.4
	1-1/4	SDF-10	240	8.9

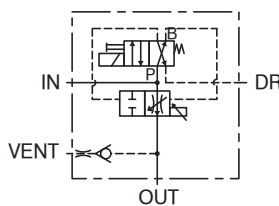
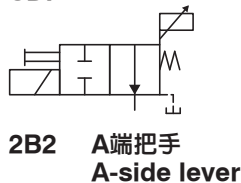
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring	
SDF-03	M6 x 65L	4 支 piece	JIS B 2401-1B-P10A	2 條 piece
SDF-06	M10 x 45L	4 支 piece	JIS B 2401-1B-P12	2 條 piece
SDF-10	M12 x 55L	4 支 piece	JIS B 2401-1B-P12	2 條 piece

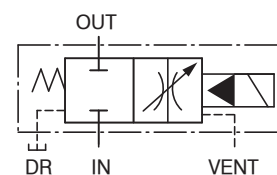
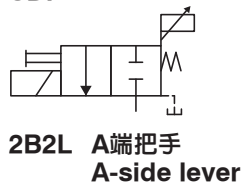
圖形符號 Graphic symbol :



SDF

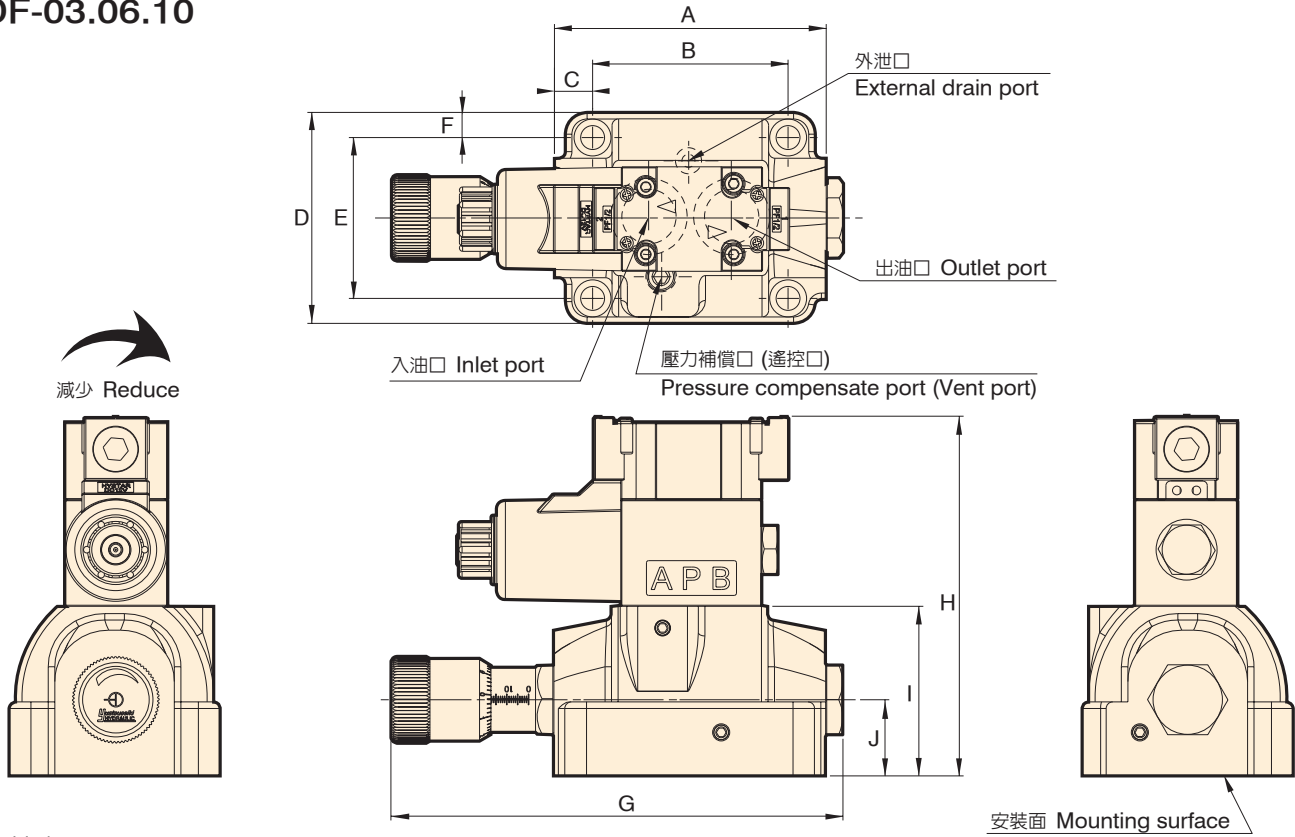


SDF



SDF

SDF-03.06.10



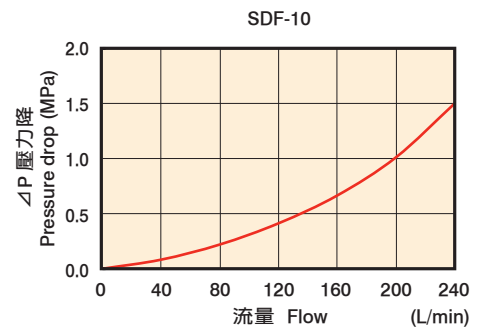
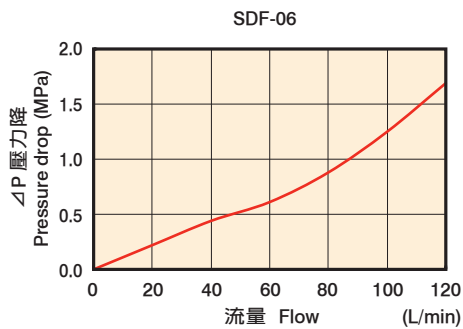
單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J			
SDF-03	108	60	24	70	40	15	168	149	62	55			
SDF-06	125	90	17.5	97	74	11.5	208	166	78	35			
SDF-10	150	112	19	116	86	15	246	176	88	42			

性能曲線圖 Performance curves

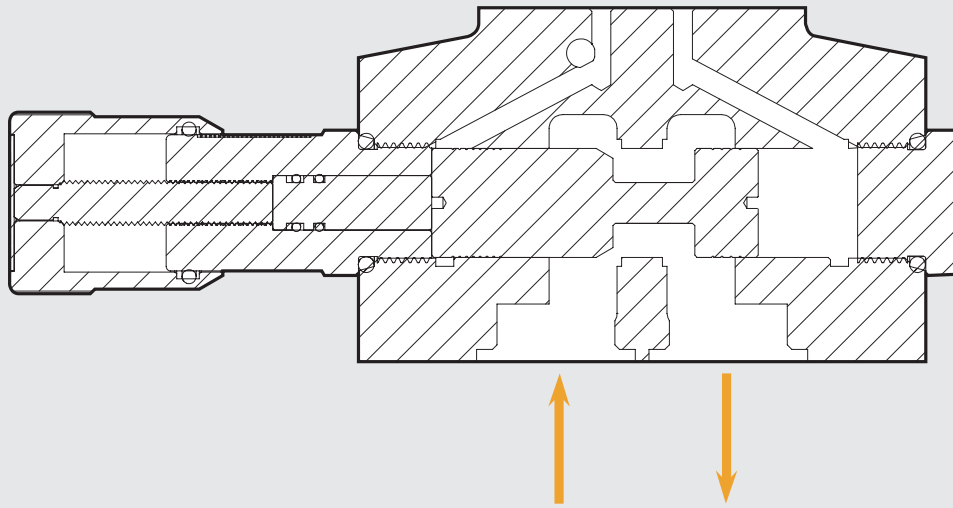
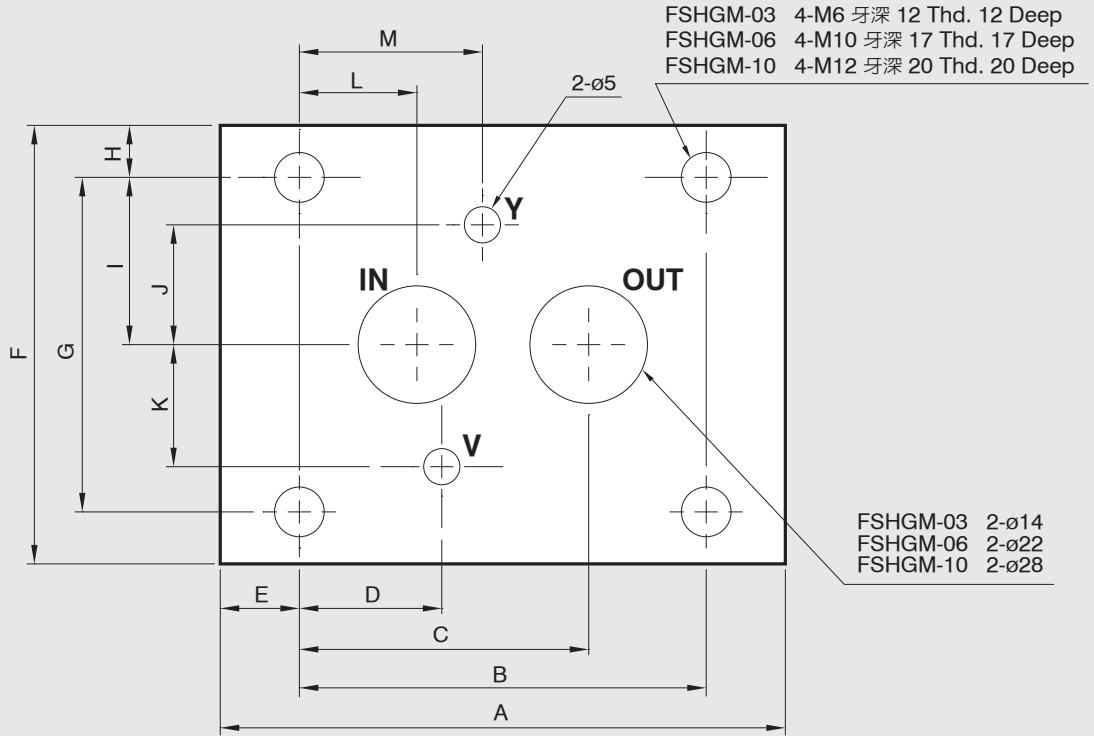
■ 流量-壓力特性曲線圖
The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
溫度 50°C



底板尺寸圖 Bottom plate dimensions

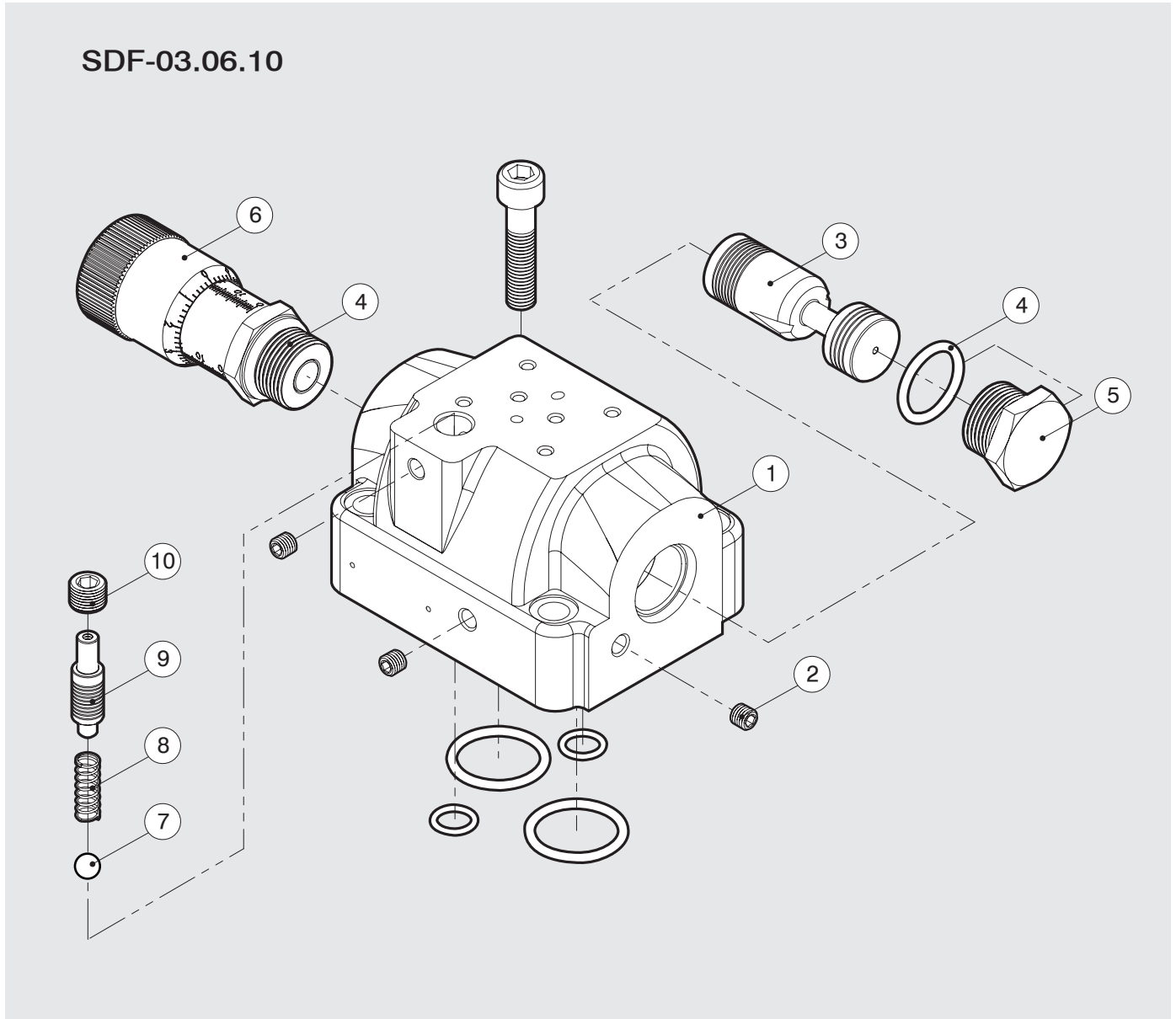
流量控制閥 電磁控制式節流閥
Flow Control Valve (Solenoid operated flow control valve)



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M
SDF-03 (FSHGM-03)	108	60	45	30	24	70	40	15	20	20	20	15	30
SDF-06 (FSHGM-06)	125	90	64	31.5	17.5	97	74	11.5	37	26.5	27	26	40.5
SDF-10 (FSHGM-10)	150	112	78	37.7	19	116	86	15	43	32	32	34	46.5

爆炸圖 How to order for a complete assembled valve



流量控制閥 電磁控制式節流閥
Flow Control Valve (Solenoid operated flow control valve)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/16	3
3	心軸 Spool	1
4	SDF-03 JIS B 2401-1A-P20	2
	SDF-06 JIS B 2401-1A-P24	2
	SDF-10 JIS B 2401-1A-P32	2
5	螺母 Nut	1

項次編號 No.	品名 Name of parts	數量 Q
6	微調把手 Fine-tune the handle	1
7	鋼珠 Ball	1
8	彈簧 Spring	1
9	推桿 Push rod	1
10	SDF-03 PT 1/8	1
	SDF-06 PT 1/4	1
	SDF-10 PT 1/4	1

- SKF 系列電磁控制式節流閥之構造，是由二段式流量控制閥和電磁閥組成。
- 其流量大小為可調式，作慢速，快速控制。
- Solenoid operated flow control valve SKF series is composed of dual-section type flow control valve and solenoid valve.
- It is adjustable on flow for fast/show speed control.



SKF-03.06.10

流量控制閥 電磁控制式節流閥
Flow Control Valve (Solenoid operated flow control valve)

型號意義 How to order :

SKF - 06 - E

1	2	3
1 系列號	Series	
2 口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"	
3 無記號: 內部控制油供給, 外部控制油泄油	No code: Pilot oil supply internal, pilot oil drain external	
E: 外部控制油供給, 外部控制油泄油	E: Pilot oil supply external, pilot oil drain external	

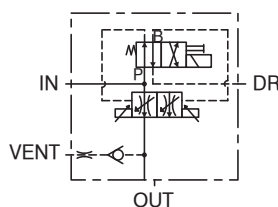
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
電磁控制式節流閥 Solenoid operated flow control valve	3/8	SKF-03	50	3
	3/4	SKF-06	125	5.9
	1-1/4	SKF-10	240	9.5

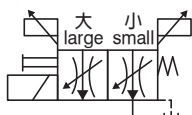
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring	
SKF-03	M6 x 65L	4 支 piece	JIS B 2401-1B-P10A	2 條 piece
SKF-06	M10 x 45L	4 支 piece	JIS B 2401-1B-P12	2 條 piece
SKF-10	M12 x 55L	4 支 piece	JIS B 2401-1B-P12	2 條 piece

圖形符號 Graphic symbol :

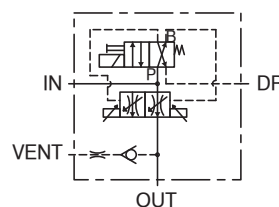


SKF

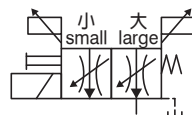


2B2

B端把手: 調大流量
B-side lever: adjustable large flow
A端把手: 調小流量
A side lever: adjustable small flow

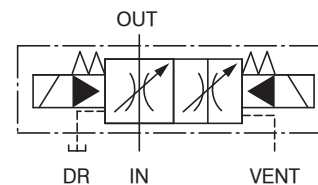


SKF



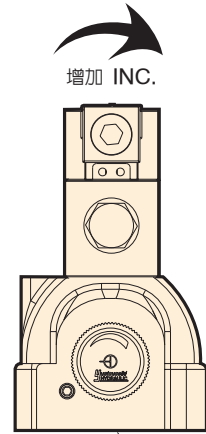
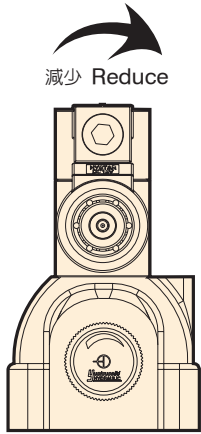
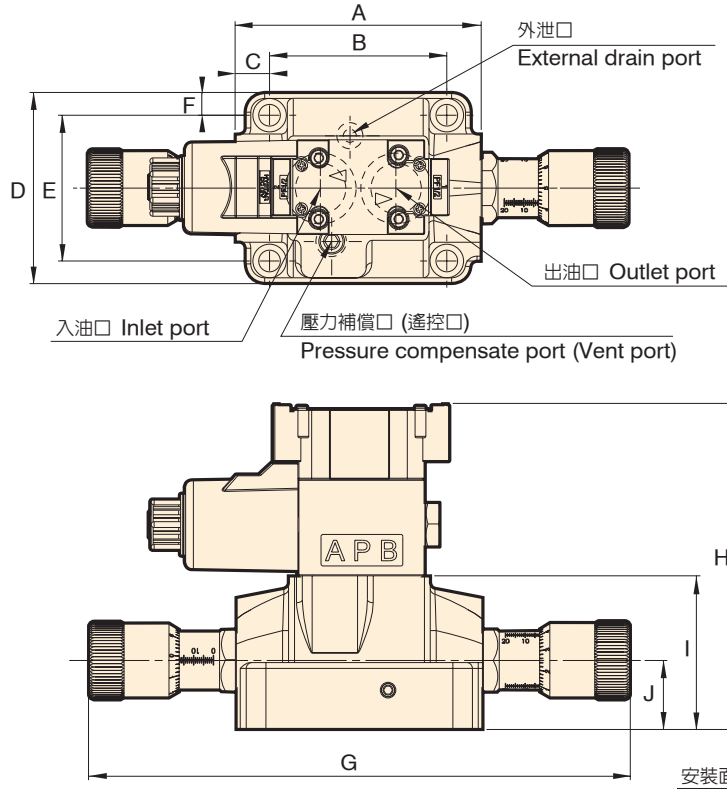
2B2L

B端把手: 調大流量
B-side lever: adjustable large flow
A端把手: 調小流量
A side lever: adjustable small flow



SKF

SKF-03.06.10



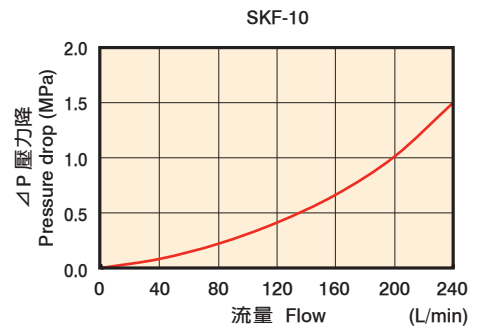
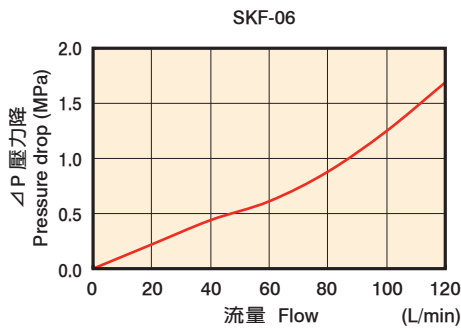
單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J				
SKF-03	108	60	24	70	40	15	214	149	62	55				
SKF-06	125	90	17.5	97	74	11.5	277.2	166	78	35				
SKF-10	150	112	19	116	86	15	325.2	176	88	42				

性能曲線圖 Performance curves

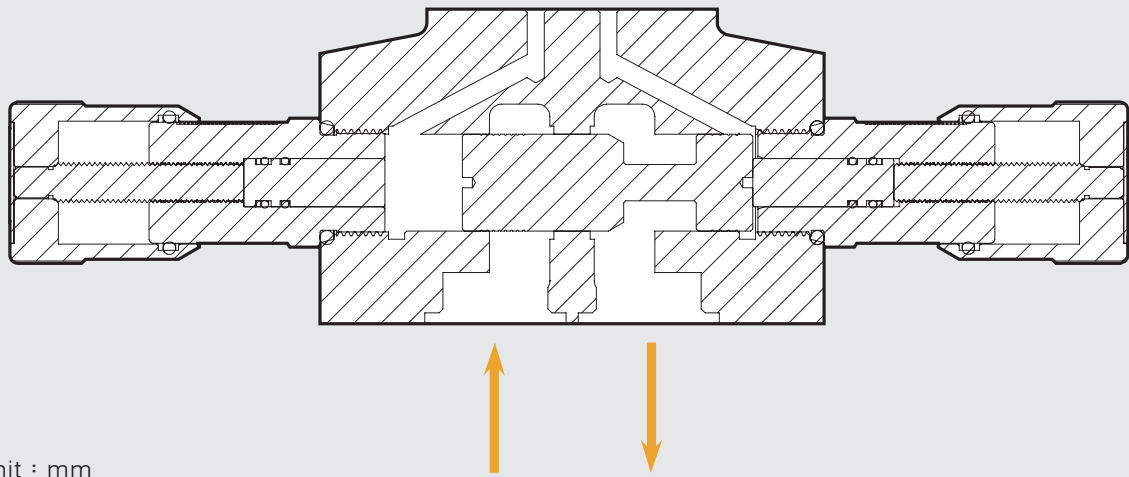
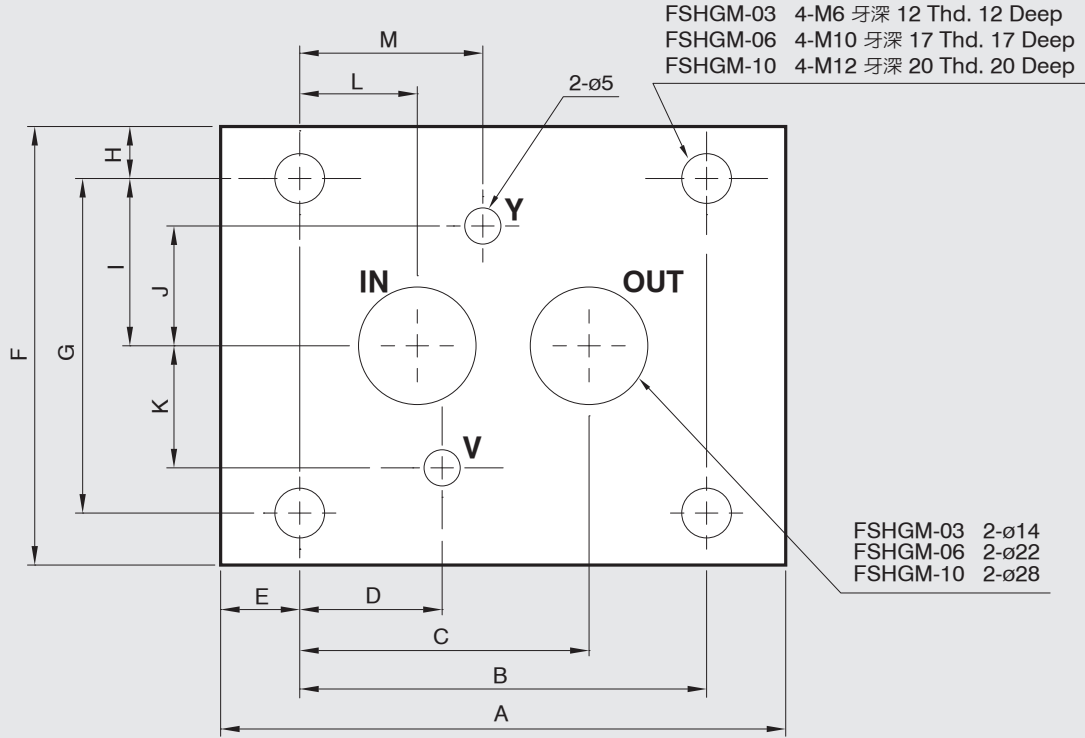
■ 流量-壓力特性曲線圖
The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
Test temperature 50°C



底板尺寸圖 Bottom plate dimensions

流量控制閥 電磁控制式節流閥
Flow Control Valve (Solenoid operated flow control valve)

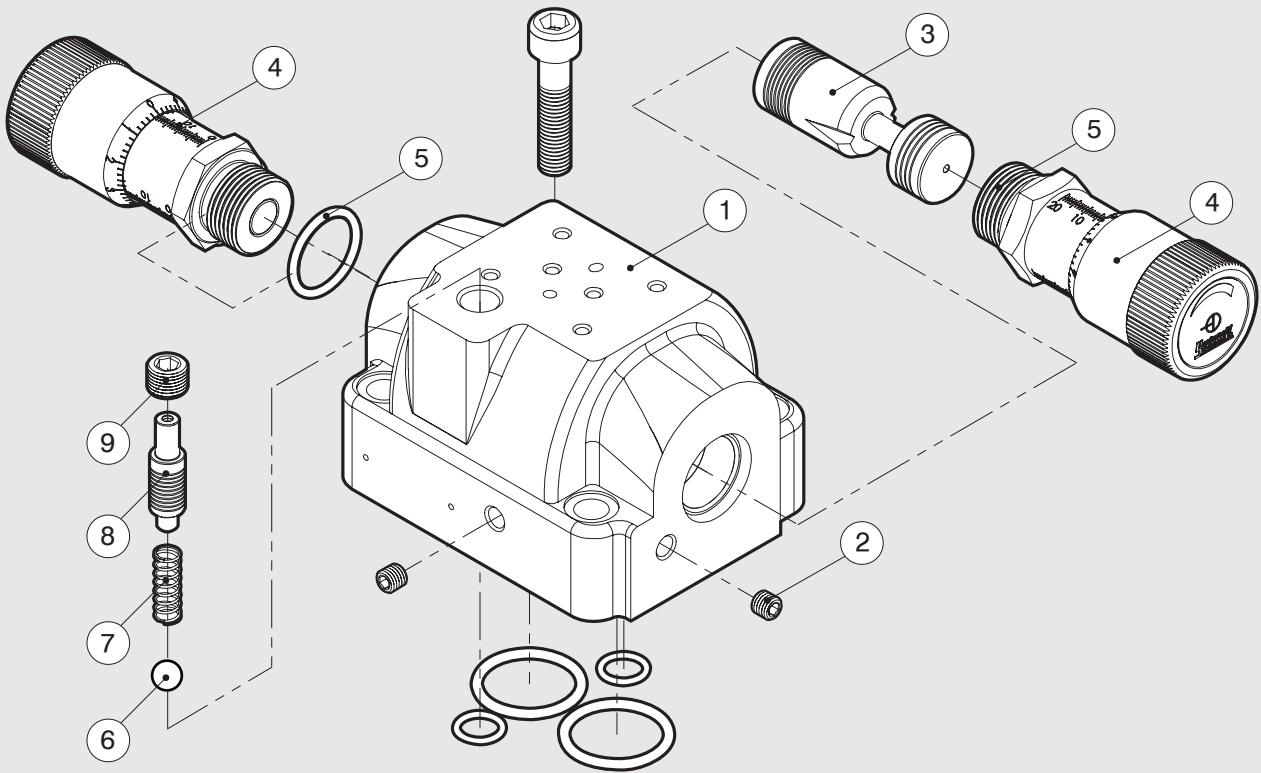


單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M
SKF-03 (FSHGM-03)	108	60	45	30	24	70	40	15	20	20	20	15	30
SKF-06 (FSHGM-06)	125	90	64	31.5	17.5	97	74	11.5	37	26.5	27	26	40.5
SKF-10 (FSHGM-10)	150	112	78	37.7	19	116	86	15	43	32	32	34	46.5

爆炸圖 How to order for a complete assembled valve

SKF-03.06.10



流量控制閥 電磁控制式節流閥
Flow Control Valve (Solenoid operated flow control valve)

項次編號 No.	品名 Name of parts	數量 Q	項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1	6	鋼珠 Ball	1
2	PT 1/16	2	7	彈簧 Spring	1
3	心軸 Spool	1	8	推桿 Push rod	1
4	微調把手 Fine-tune the handle	2	9	PT 1/4	1
5	SKF-03	JIS B 2401-1A-P20			
	SKF-06	JIS B 2401-1A-P24			
	SKF-10	JIS B 2401-1A-P32			

- SKFG 系列電磁控制式節流閥之構造，是由三段式流量控制閥和電磁閥組成。
- 其流量大小為可調式，作慢速、快速、急速控制。
- Solenoid operated flow control valve SKFG series is composed of triple-section type flow control valve and solenoid valve.
- It is adjustable on flow for fast/show speed control.



SKFG-03.06.10

型號意義 How to order :

SKFG - 06 - E

1 2 3

1	系列號	Series
2	口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
3	無記號:內部控制油供給，外部控制油泄油 E:外部控制油供給，外部控制油泄油	No code: Pilot oil supply intemal, pilot oil drain external E: Pilot oil supply external, pilot oil drain external

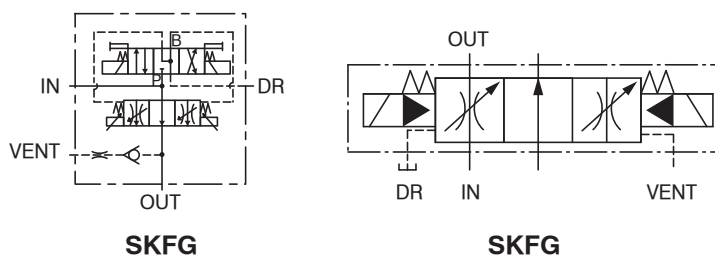
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最大流量 Max. Flow (ℓ /min)	重量 Weight (Kg)
電磁控制式節流閥 Solenoid operated flow control valve	3/8	SKFG-03	50	3
	3/4	SKFG-06	125	7
	1-1/4	SKFG-10	240	11.3

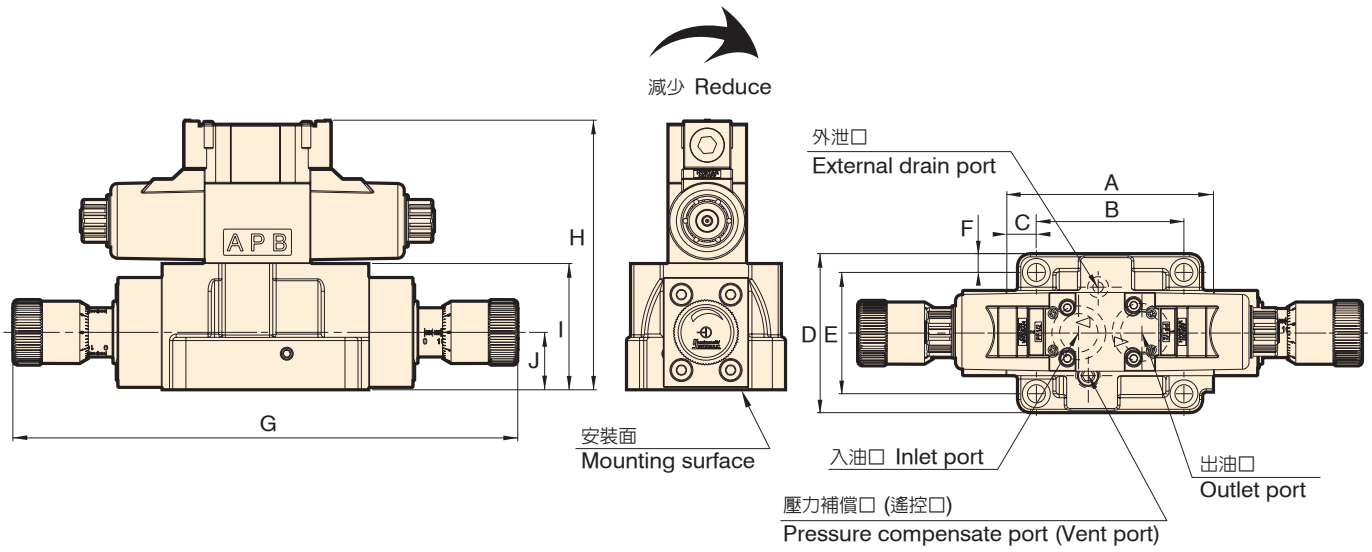
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
SKFG-03	M6 x 65L 4 支 piece	JIS B 2401-1B-P10A 2 條 piece JIS B 2401-1B-P18 2 條 piece
SKFG-06	M10 x 45L 4 支 piece	JIS B 2401-1B-P12 2 條 piece JIS B 2401-1B-P29 2 條 piece
SKFG-10	M12 x 55L 4 支 piece	JIS B 2401-1B-P12 2 條 piece JIS B 2401-1B-P34 2 條 piece

圖形符號 Graphic symbol :



SKFG-03.06.10



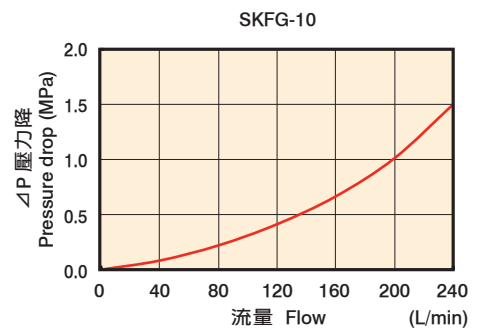
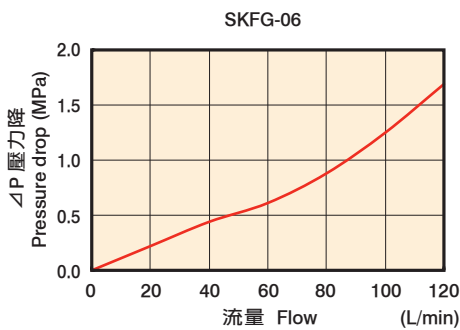
單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J			
SKFG-03	108	60	24	70	40	15	214	149	62	55			
SKFG-06	126	90	18	97	74	11.5	308	164	77	35			
SKFG-10	150	112	19	116	86	15	406	175	88	42			

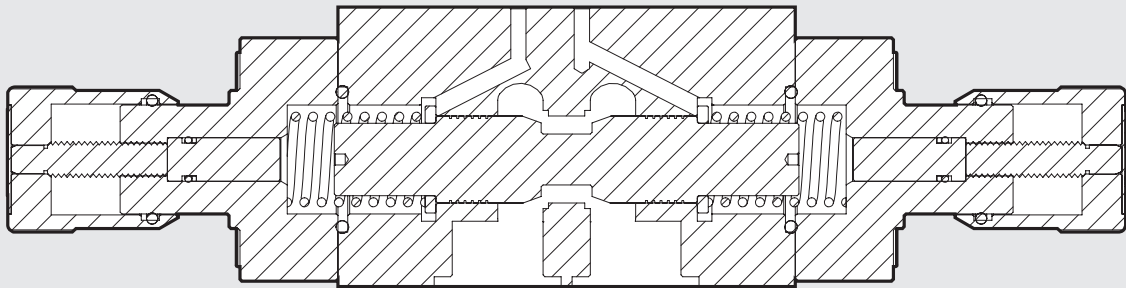
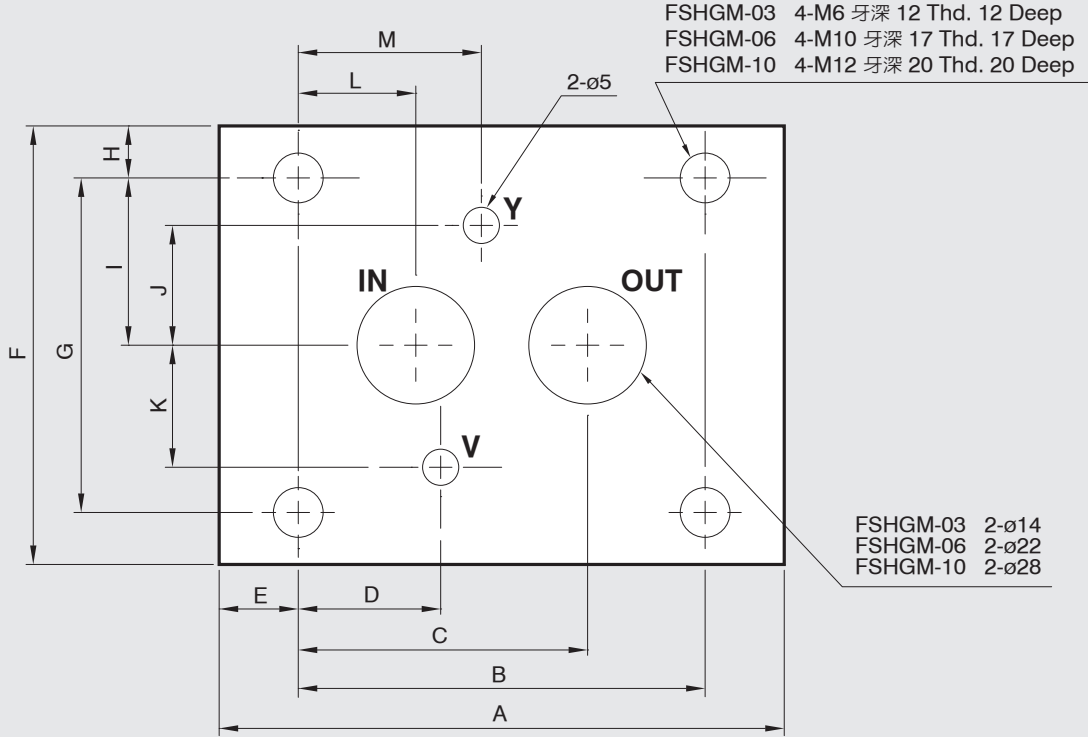
性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖
The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
Test temperature 50°C



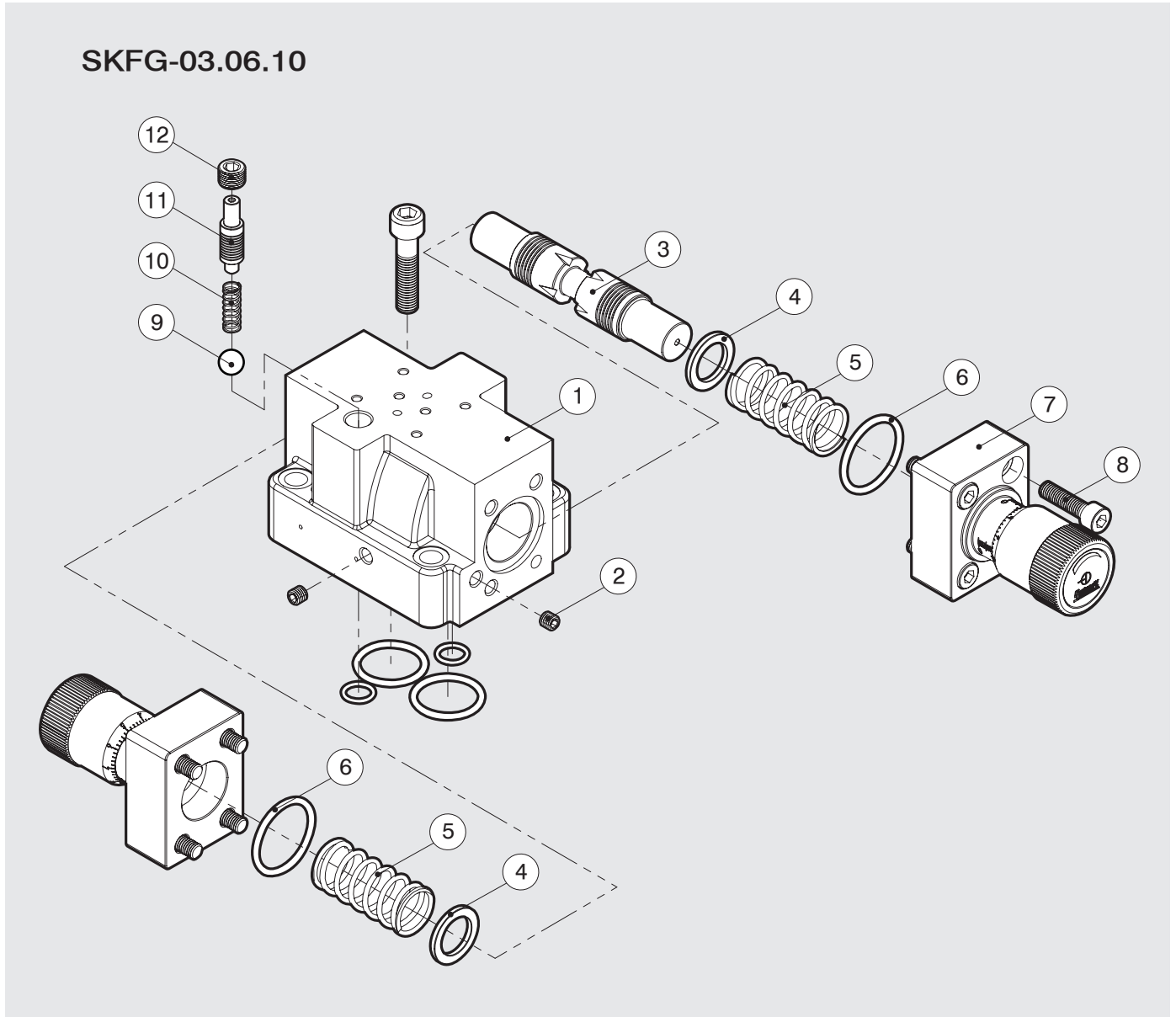
底板尺寸圖 Bottom plate dimensions



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M
SKFG-03 (FSHGM-03)	108	60	45	30	24	70	40	15	20	20	20	15	30
SKFG-06 (FSHGM-06)	126	90	64	31.5	18	97	74	11.5	37	26.5	27	26	40.5
SKFG-10 (FSHGM-10)	150	112	78	37.7	19	116	86	15	43	32	32	34	46.5

爆炸圖 How to order for a complete assembled valve



流量控制閥 電磁控制式節流閥
Flow Control Valve (Solenoid operated flow control valve)

項次編號 No.	品名 Name of parts	數量 Q	項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1	7	微調把手 Fine-tune the handle	2
2	PT 1/16	2	8	SKFG-03 無 None	8
3	心軸 Spool	1		SKFG-06 M8 x 30L	
4	墊片 Washer	2		SKFG-10 無 None	
5	彈簧 Spring	2	9	鋼珠 Ball	1
6	SKFG-03 JIS B 2401-1A-P22	2	10	彈簧 Spring	1
	SKFG-06 JIS B 2401-1B-P34	2	11	推桿 Push rod	1
	SKFG-10 JIS B 2401-1A-P42	2	12	PT 1/4	1

- SRG 系列節流閥附止回閥之主要功能，是調整迴路速度。
- 當壓力幾乎固定，或是壓力變動，允許少量流量流動的情況下，使用此系列閥。
- Restrictor SRG series is to adjust the circuit speed.
- When pressure is fixed or changeable, it allows having a little flow by using this valve.



SRG-03

型號意義 How to order :

SR G - 06 - 15

1 2 3 4

1	系列號	Series
2	板式連接	SUB-Plate mounting
3	口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
4	中止閥	Stop valves

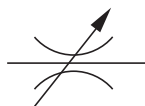
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
節流閥 Restrictors valve	3/8	SRG-03	30	1.4
	3/4	SRG-06	85	2.2
	1-1/4	SRG-10	220	4.8
	3/8	SRG-03-15	30	1.2

附件 Attachment :

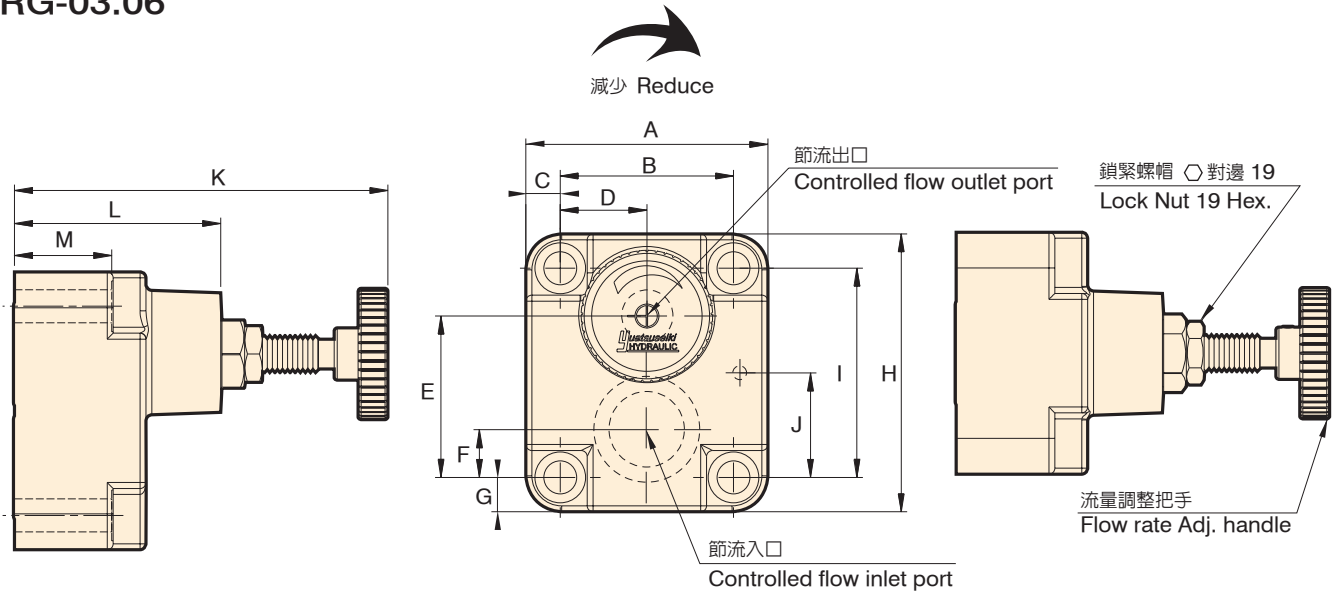
型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
SRG-03	M8 x 35L 4 支 piece	JIS B 2401-1B-P18 2 條 piece
SRG-06	M10 x 50L 4 支 piece	JIS B 2401-1B-P29 2 條 piece
SRG-10	M12 x 60L 4 支 piece	JIS B 2401-1B-P38 2 條 piece

圖形符號 Graphic symbol :



SRG

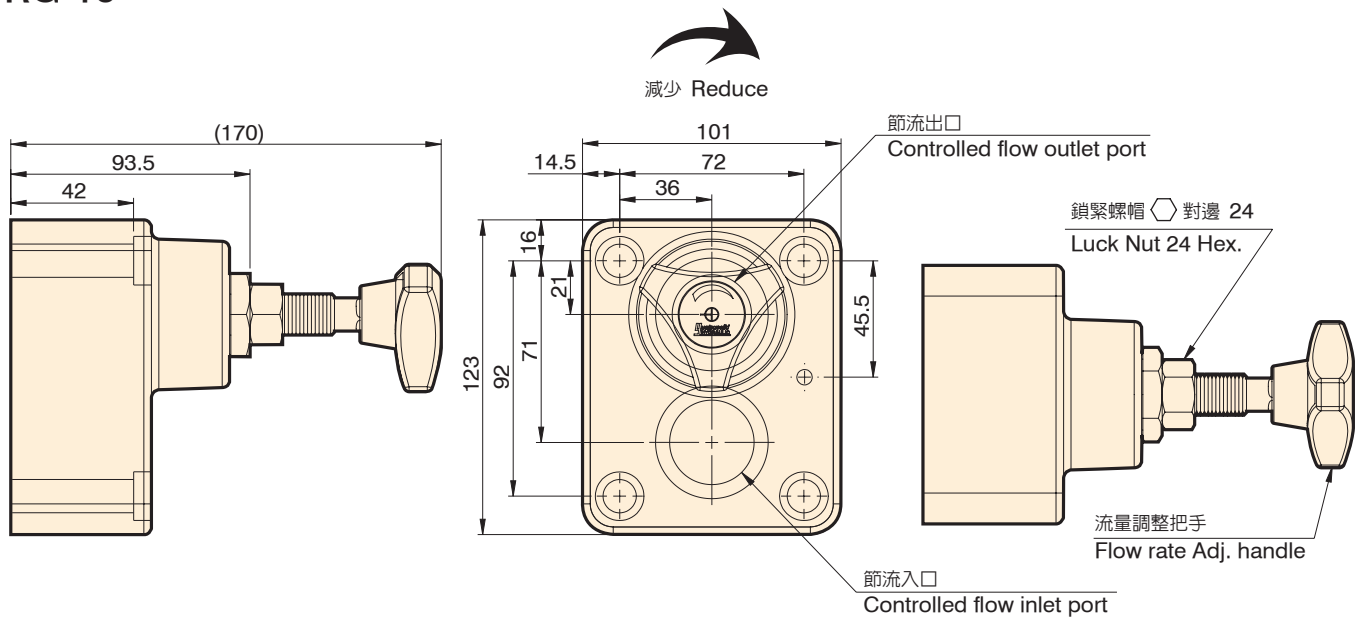
SRG-03.06



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M
SRG-03	61	40	10.5	20	45	15	10.5	81	60	30	106	56	22
SRG-06	81	58	11.5	29	54	16	11.5	93	70	35	125	69	33

SRG-10



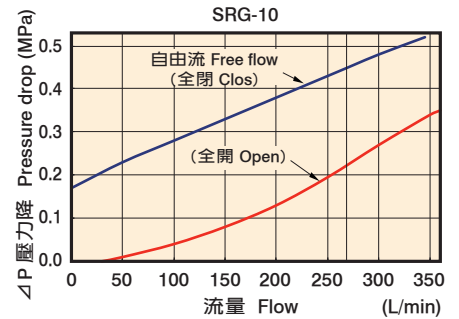
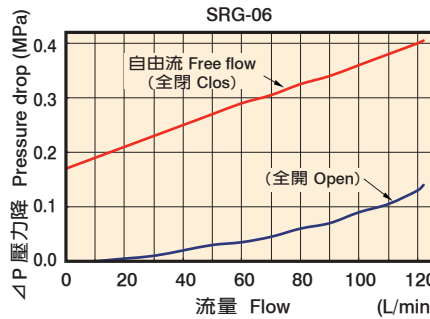
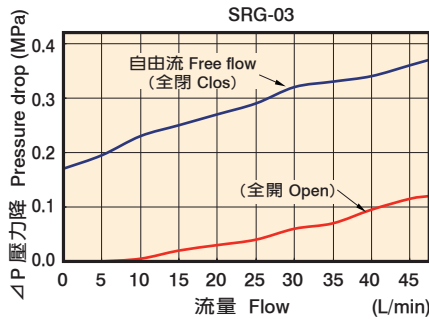
單位 Unit : mm

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

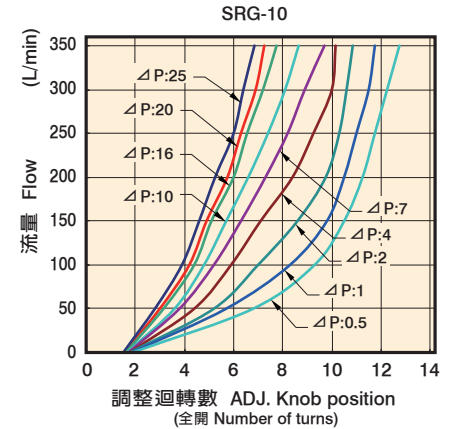
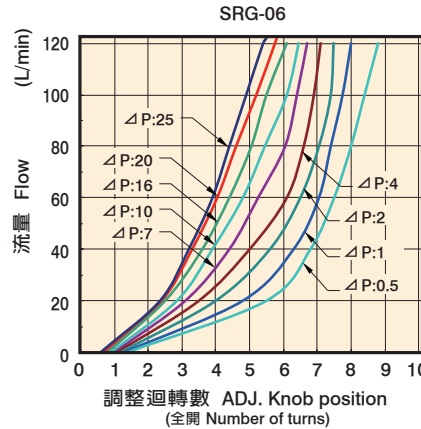
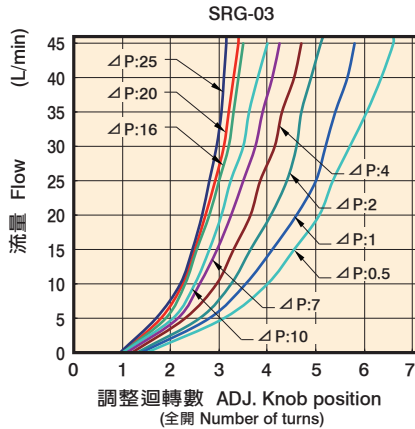
The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}

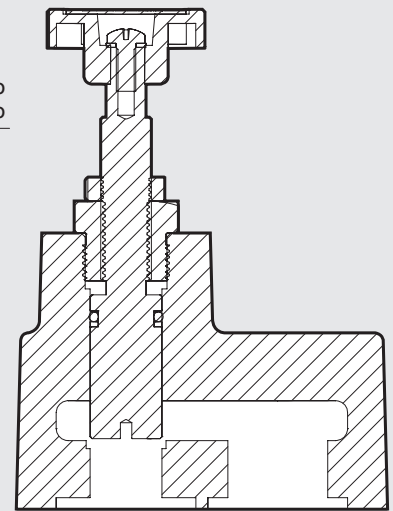
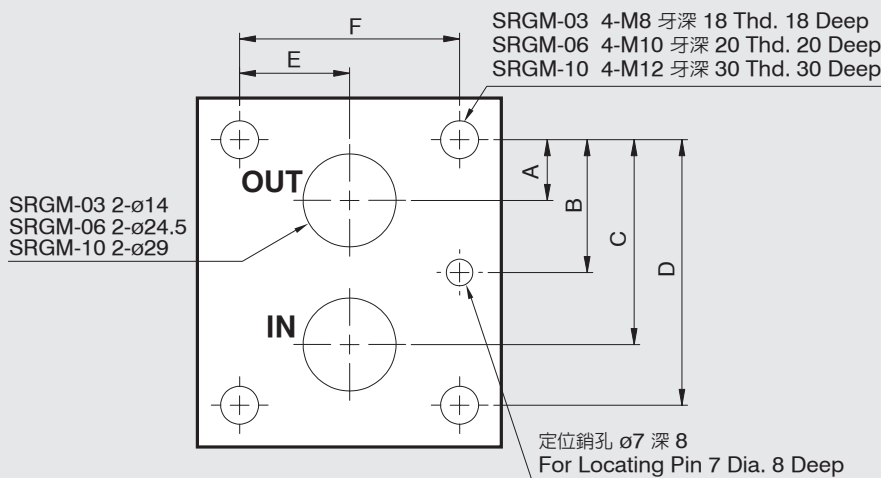


■ 流量-調整旋扭特性曲線圖

The characteristic curve chart of Flow vs. ADJ. knob position



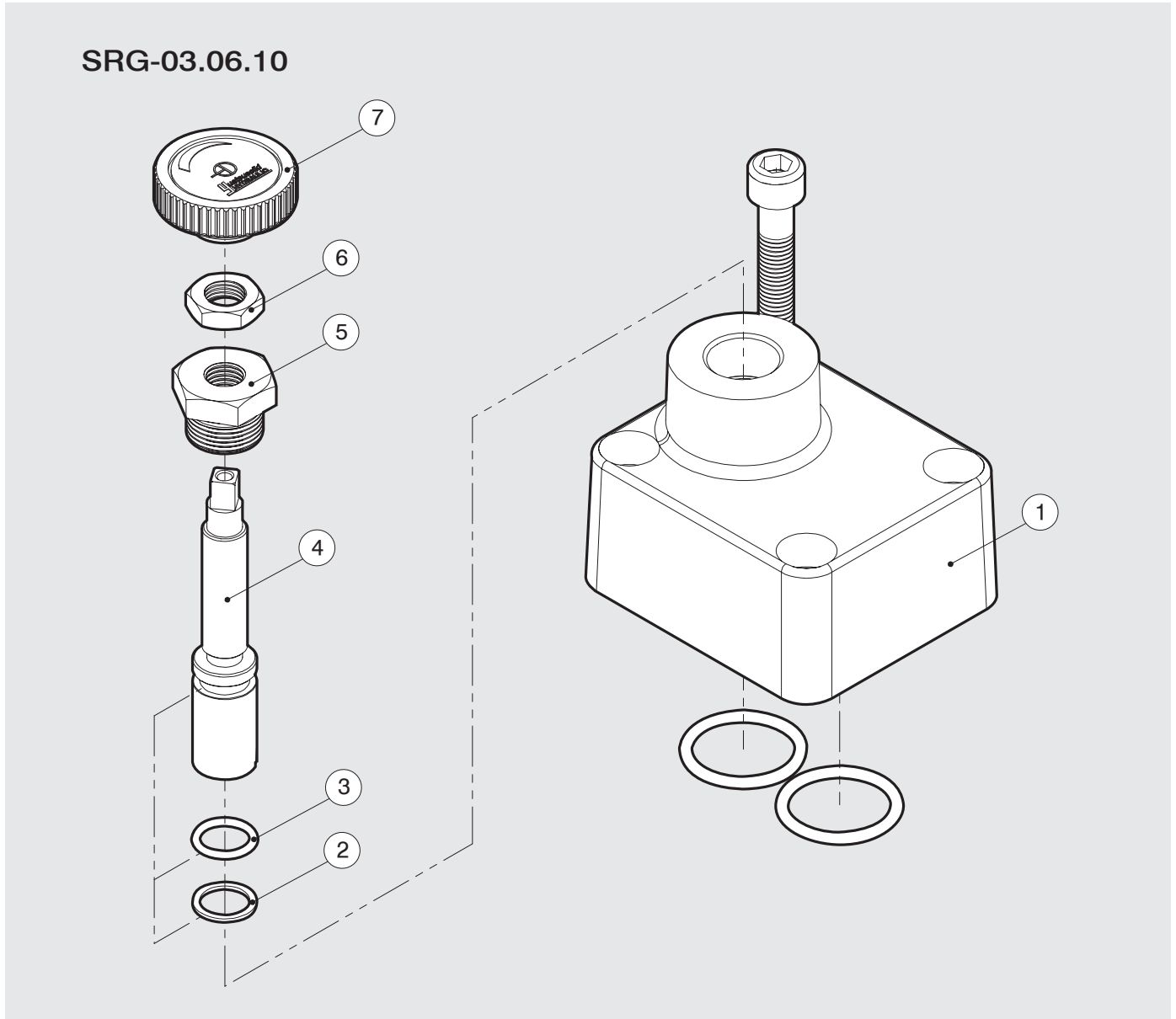
底板尺寸圖 Bottom plate dimensions



單位 Unit : mm

型號 Model	A	B	C	D	E	F
SRG-03 (SRGM-03)	15	30	45	60	20	40
SRG-06 (SRGM-06)	16	35	54	70	29	58
SRG-10 (SRGM-10)	21	46	71	92	45	90

爆炸圖 How to order for a complete assembled valve



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	SRG-03 JIS B 2401-1A-P10A	1
	SRG-06 JIS B 2401-1A-P14	1
	SRG-10 JIS B 2401-1A-P21	1
3	SRG-03 JIS B 2407-T2-P10A	1
	SRG-06 JIS B 2407-T2-P14	1
	SRG-10 JIS B 2407-T2-P21	1

項次編號 No.	品名 Name of parts	數量 Q
4	心軸 Spool	1
5	把手螺母 Nut	1
6	螺母 Nut	1
7	壓力調整把手 Pressure adj. handle	1

- SRCG 系列節流閥附止回閥之主要功能，是調整迴路速度。
- 當壓力幾乎固定，或是壓力變動，允許少量流量流動的情況下，使用此系列閥，油可從出油口自由流向進油口。
- One-way restrictor SRCG series is to adjust the circuit speed.
- When pressure is fixed or changeable, it allows having a little flow by using this valve, oil can flow from outlet to inlet.



SRCG-03

型號意義 How to order :

SR C G - 03

1 2 3 4

1 系列號	Series
2 附止回閥	Check valve
3 板式連接	SUB-Plate mounting
4 口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"

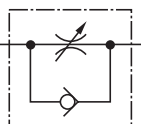
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
節流閥付止回閥 One-way restrictors	3/8	SRCG-03	30	1.9
	3/4	SRCG-06	85	3.2
	1-1/4	SRCG-10	220	8

附件 Attachment :

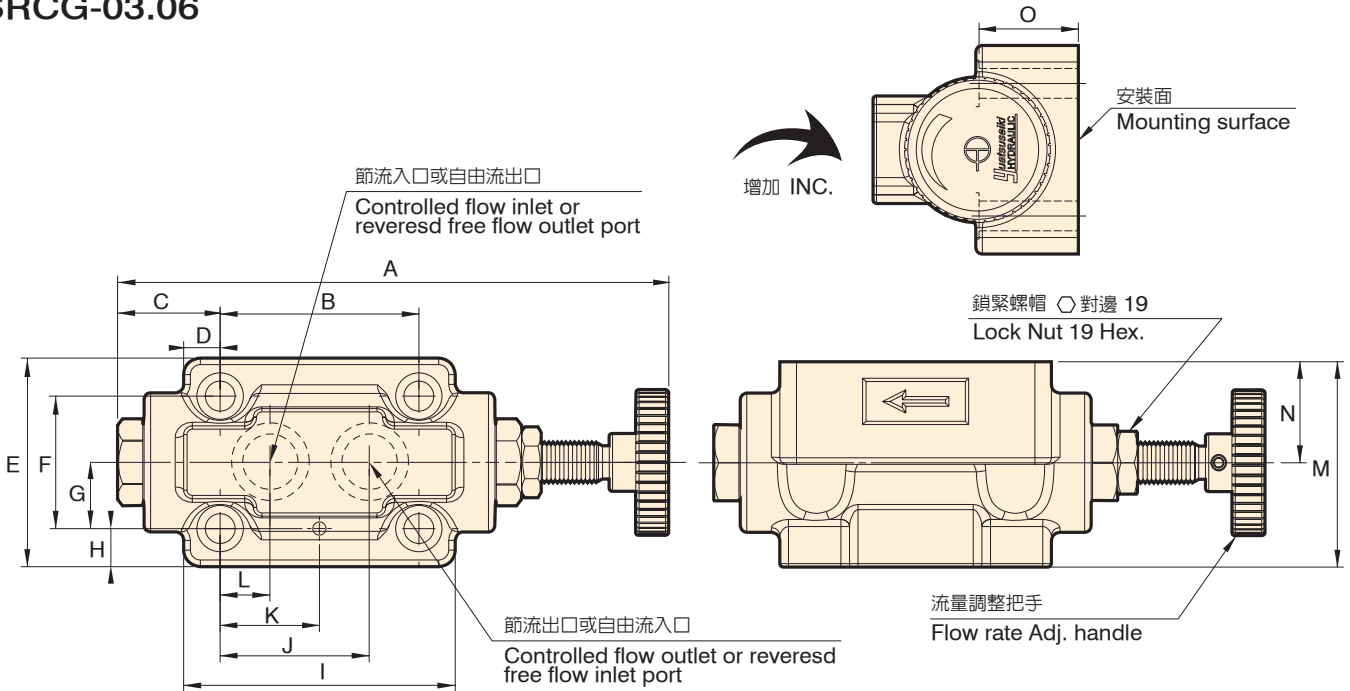
型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
SRCG-03	M8 x 40L 4 支 piece	JIS B 2401-1B-P18 2 條 piece
SRCG-06	M10 x 45L 4 支 piece	JIS B 2401-1B-P29 2 條 piece
SRCG-10	M12 x 100L 4 支 piece	JIS B 2401-1B-P36 2 條 piece

圖形符號 Graphic symbol :



SRCG

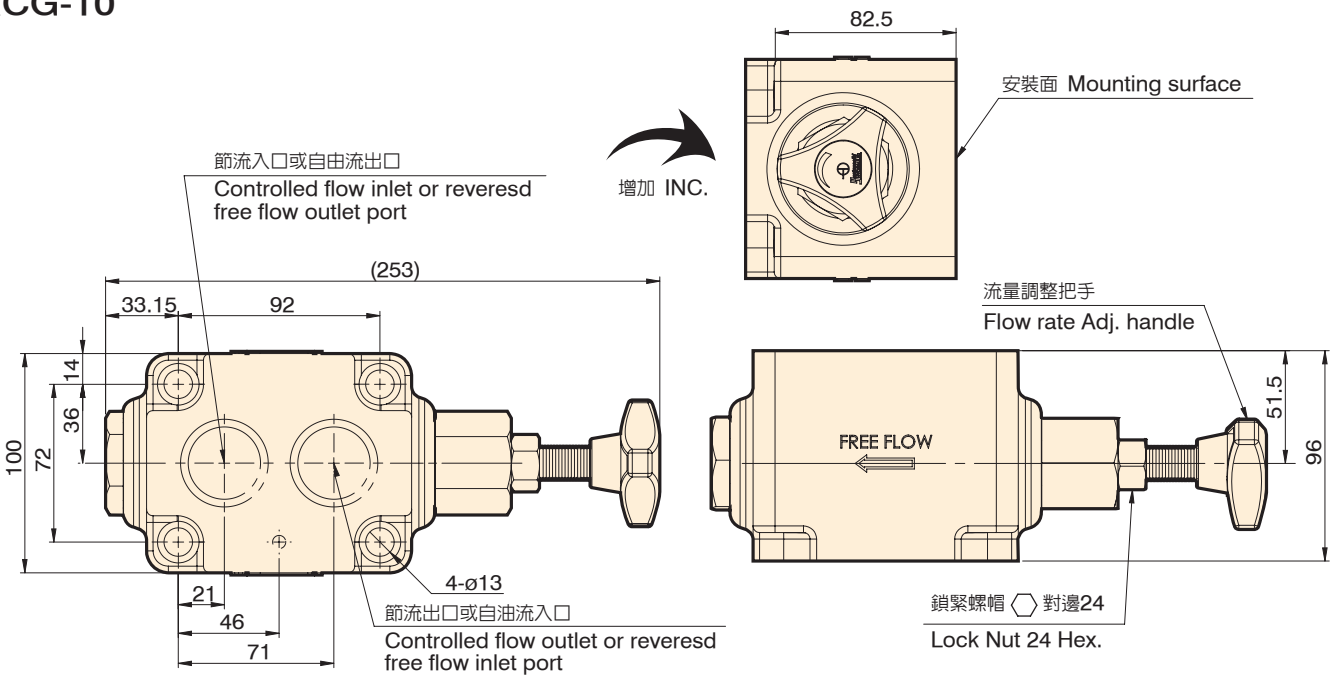
SRCG-03.06



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
SRCG-03	167	60	31	11	63	40	20	11.5	82	45	30	15	62	30.5	30
SRCG-06	198	70	30.5	10.5	80	58	29	11	91	54	35	16	74	30	30

SRCG-10



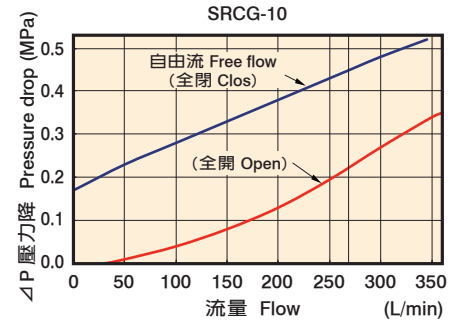
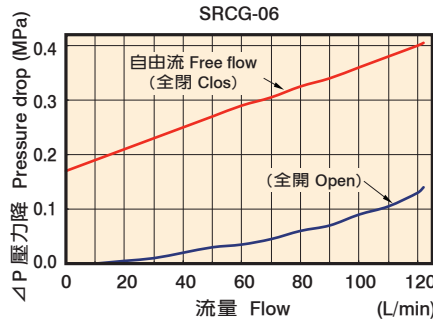
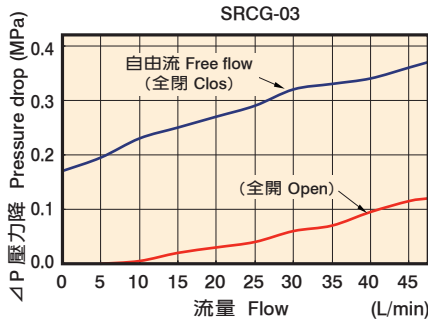
單位 Unit : mm

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

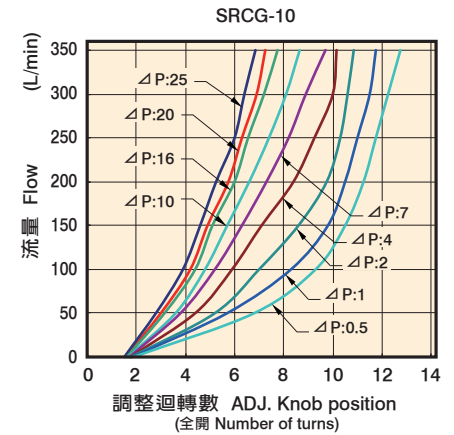
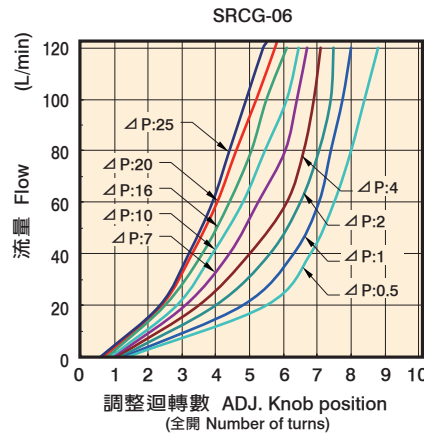
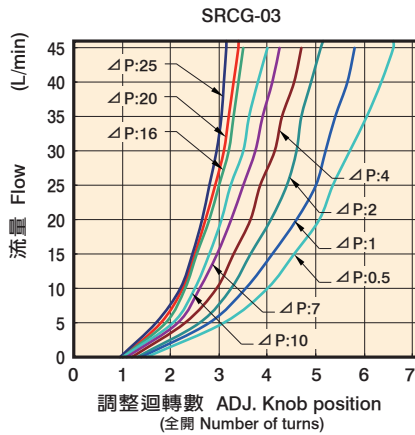
The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}

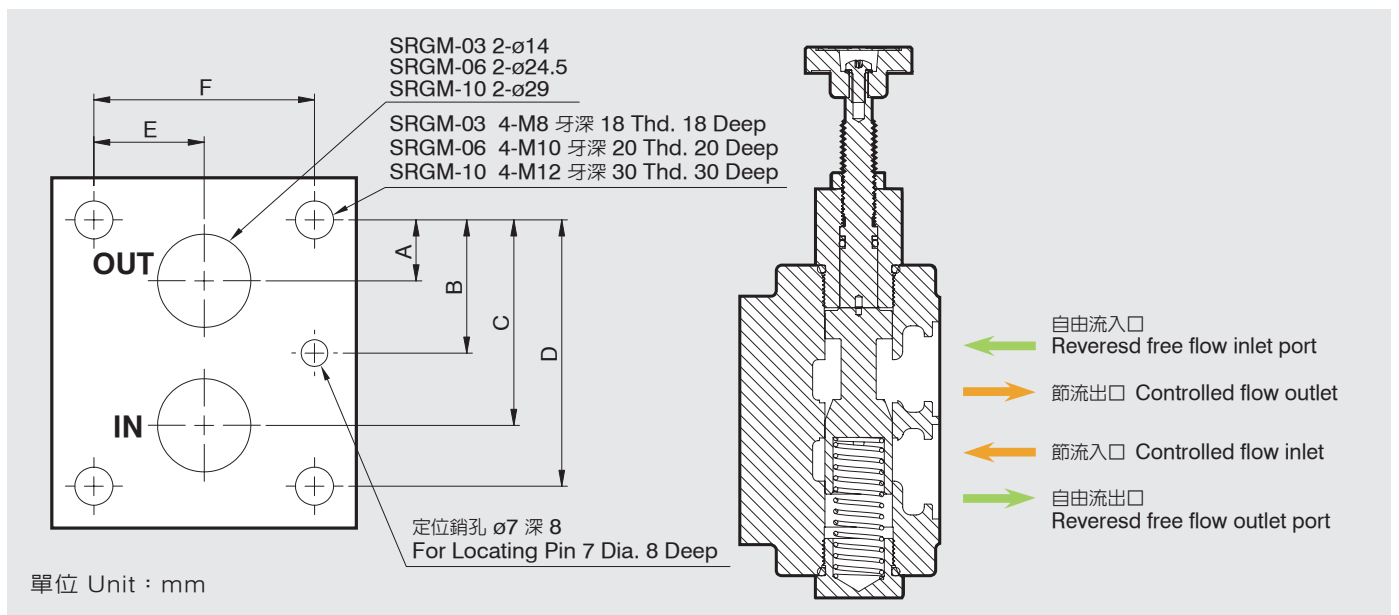


■ 流量-調整旋扭特性曲線圖

The characteristic curve chart of Flow vs. ADJ. knob position



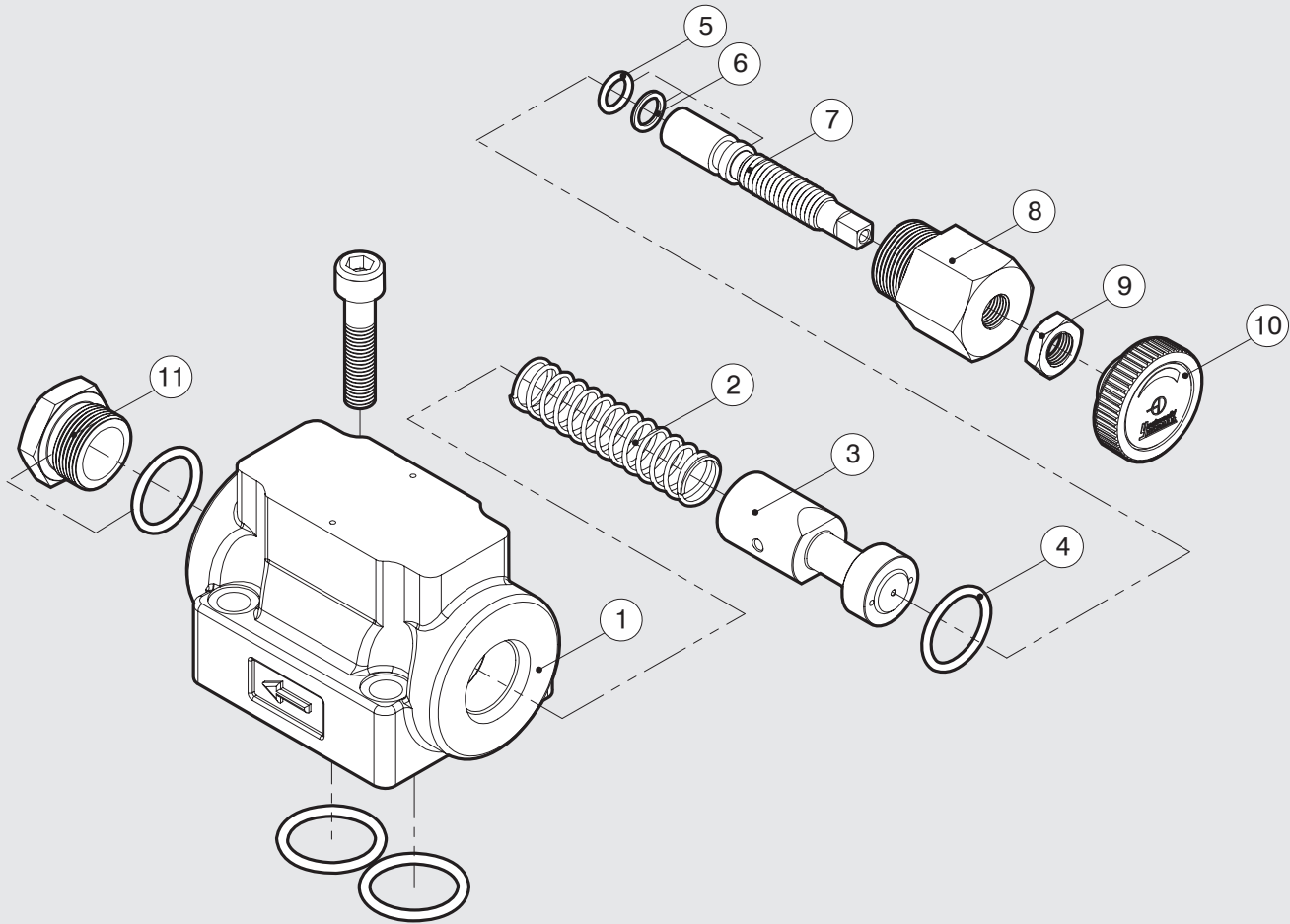
底板尺寸圖 Bottom plate dimensions



型號 Model	A	B	C	D	E	F
SRCG-03 (SRGM-03)	15	30	45	60	20	40
SRCG-06 (SRGM-06)	16	35	54	70	29	58
SRCG-10 (SRGM-10)	21	46	71	92	45	90

爆炸圖 How to order for a complete assembled valve

SRCG-03.06.10



流量控制閥 節流閥付止回閥
Flow Control Valve (One-way restrictors)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	彈簧 Spring	1
3	心軸 Spool	1
4	SRCG-03 JIS B 2401-1A-P16	2
	SRCG-06 JIS B 2401-1A-P24	2
	SRCG-10 JIS B 2401-1A-P32	2
5	SRCG-03 JIS B 2401-1A-P12	1
	SRCG-06 JIS B 2401-1A-P10A	1
	SRCG-10 JIS B 2401-1A-P16	1

項次編號 No.	品名 Name of parts	數量 Q
6	SRCG-03 JIS B 2407-T2-P12	1
	SRCG-06 JIS B 2407-T2-P10A	1
	SRCG-10 JIS B 2407-T2-P16	1
7	心軸調整螺絲 Screw for spool adj.	1
8	把手螺母 Nut	1
9	螺母 Nut	1
10	調整壓力把手 Pressure adj. handle	1
11	螺母 Nut	1

- SRCT 系列節流閥使用在機構速度的調整。當回路壓力幾乎固定，或因壓力變動產生的流量波動。由於結構上之平衡，因此在高壓時也可容易調整。
- Restrictor SRCT series is used to adjust the speed of mechanism. When pressure is fixed, or it causes the different flow by pressure changing; it is still easy to adjust under high pressure, due to the balance on structure of design.



SRCT-03. 04. 06. 10

型號意義 How to order :

SR C T - 03

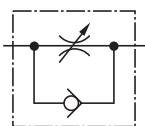
1 2 3 4

1	系列號	Series
2	附止回閥	Check valve
3	管式連接	Threaded connections
4	口徑代號	Valve size 03:3/8", 04:1/2", 06:3/4", 10:1-1/4"

產品規格 Specification :

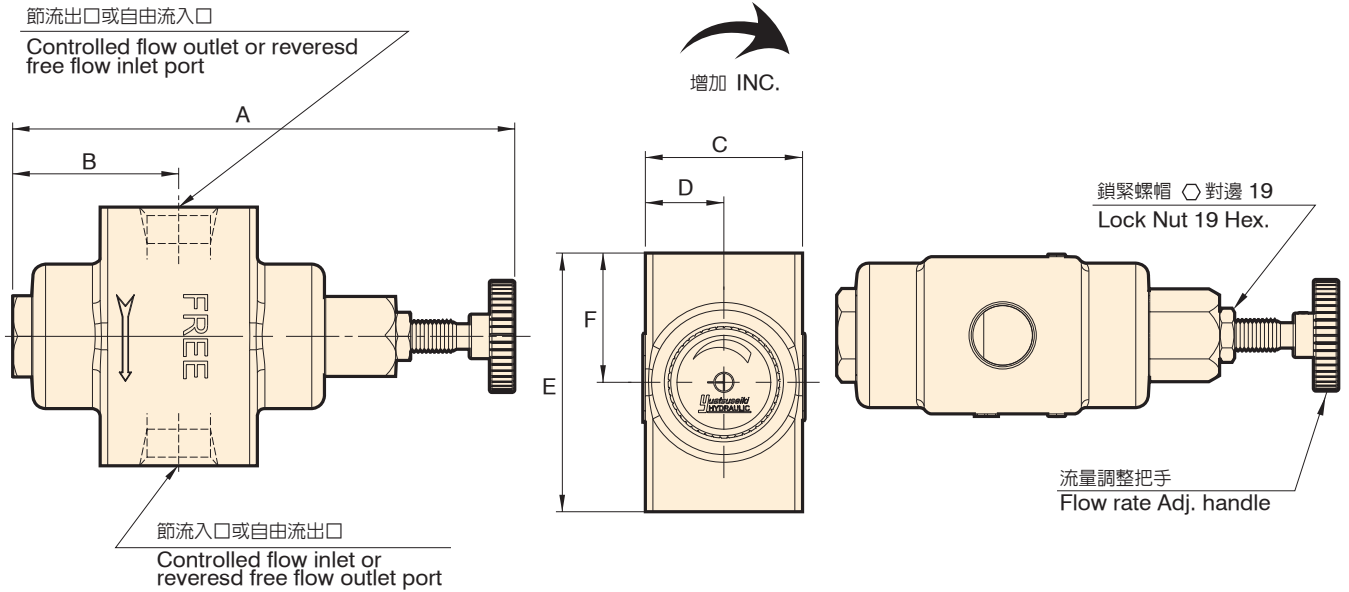
名稱 Name	口徑 Valve Size	型號 Model	最大流量 Max. Flow (ℓ /min)	重量 Weight (Kg)
節流閥付止回閥 One-way restrictors	3/8	SRCT-03	30	1.4
	1/2	SRCT-04	30	1.4
	3/4	SRCT-06	85	3.7
	1-1/4	SRCT-10	220	7.2

圖形符號 Graphic symbol :



SRCT

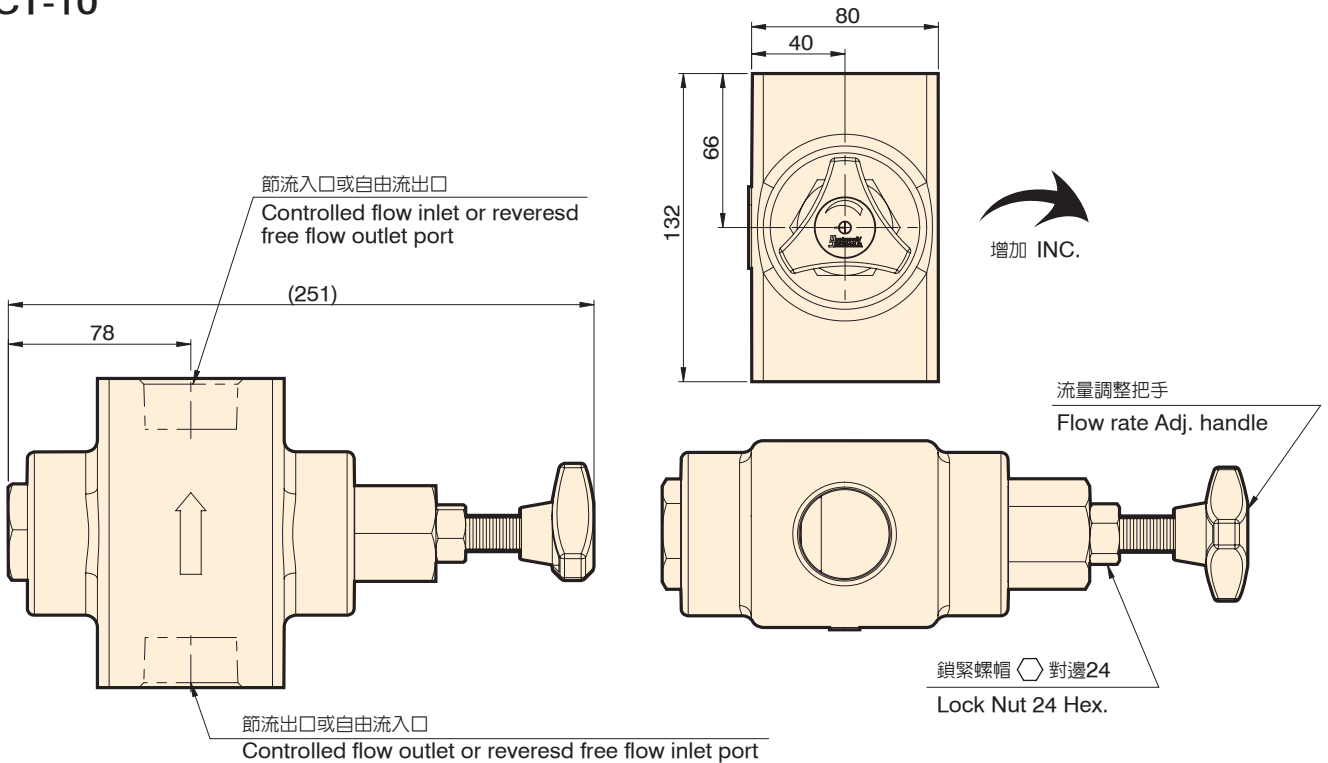
SRCT-03.04.06



單位 Unit : mm

型號 Model	A	B	C	D	E	F								
SRCT-03	170	60.25	43	21.5	72	36								
SRCT-04	170	60.25	43	21.5	72	36								
SRCT-06	204	65.7	62	31	102	51								

SRCT-10



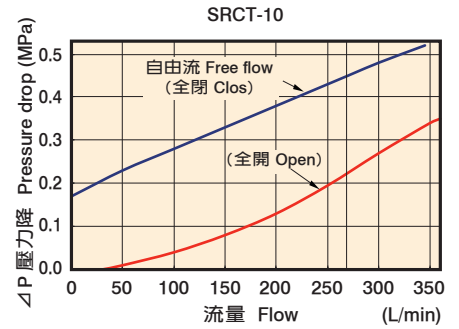
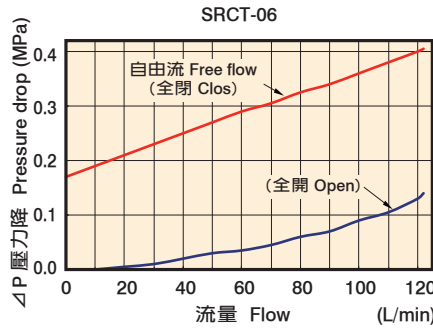
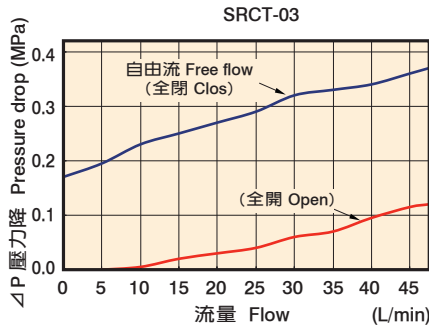
單位 Unit : mm

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

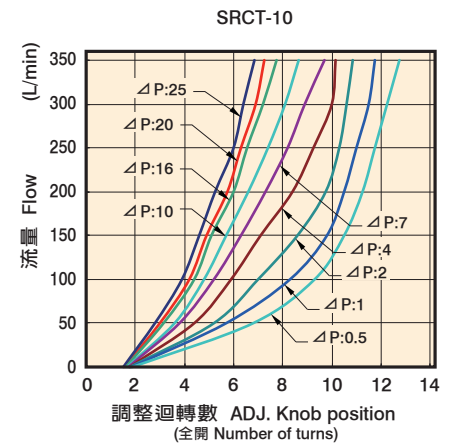
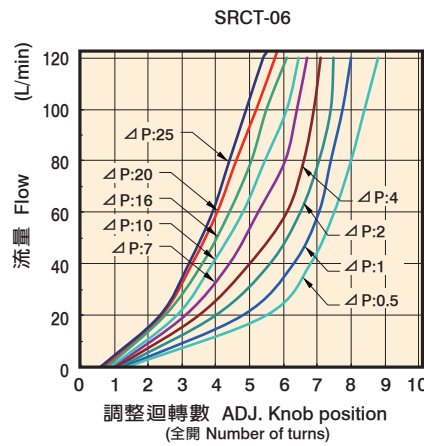
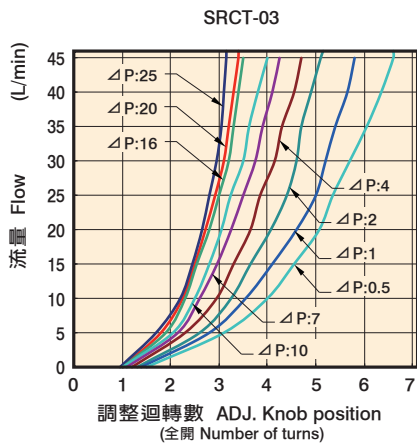
The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s{cSt}

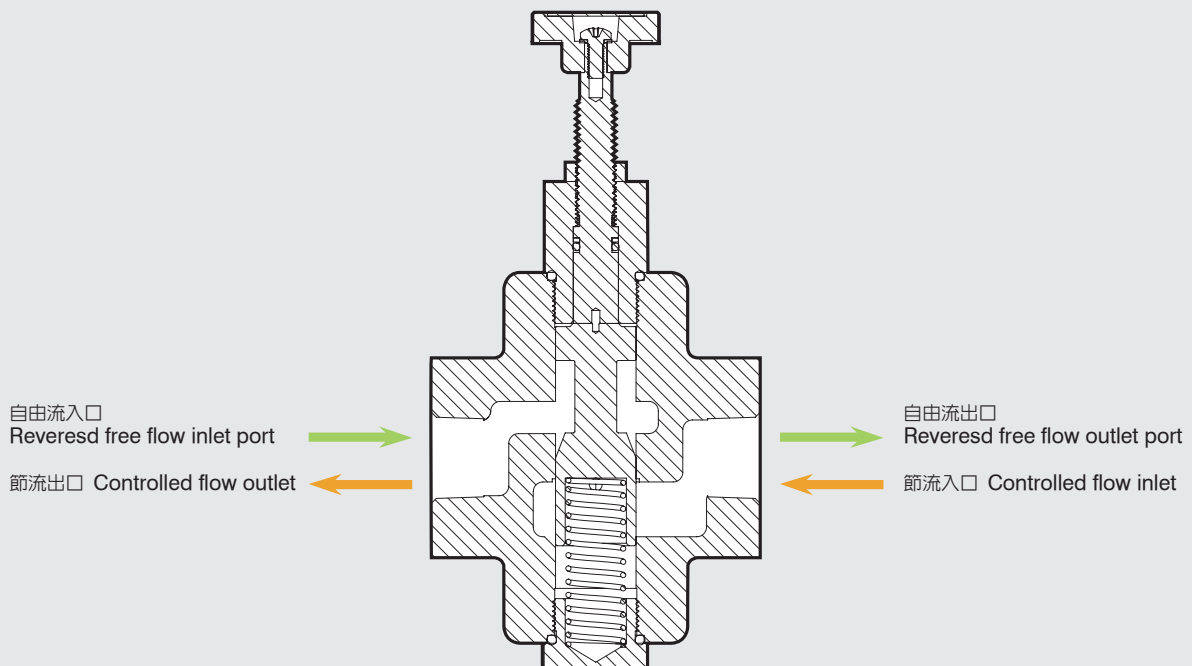


■ 流量-調整旋扭特性曲線圖

The characteristic curve chart of Flow vs ADJ. knob position

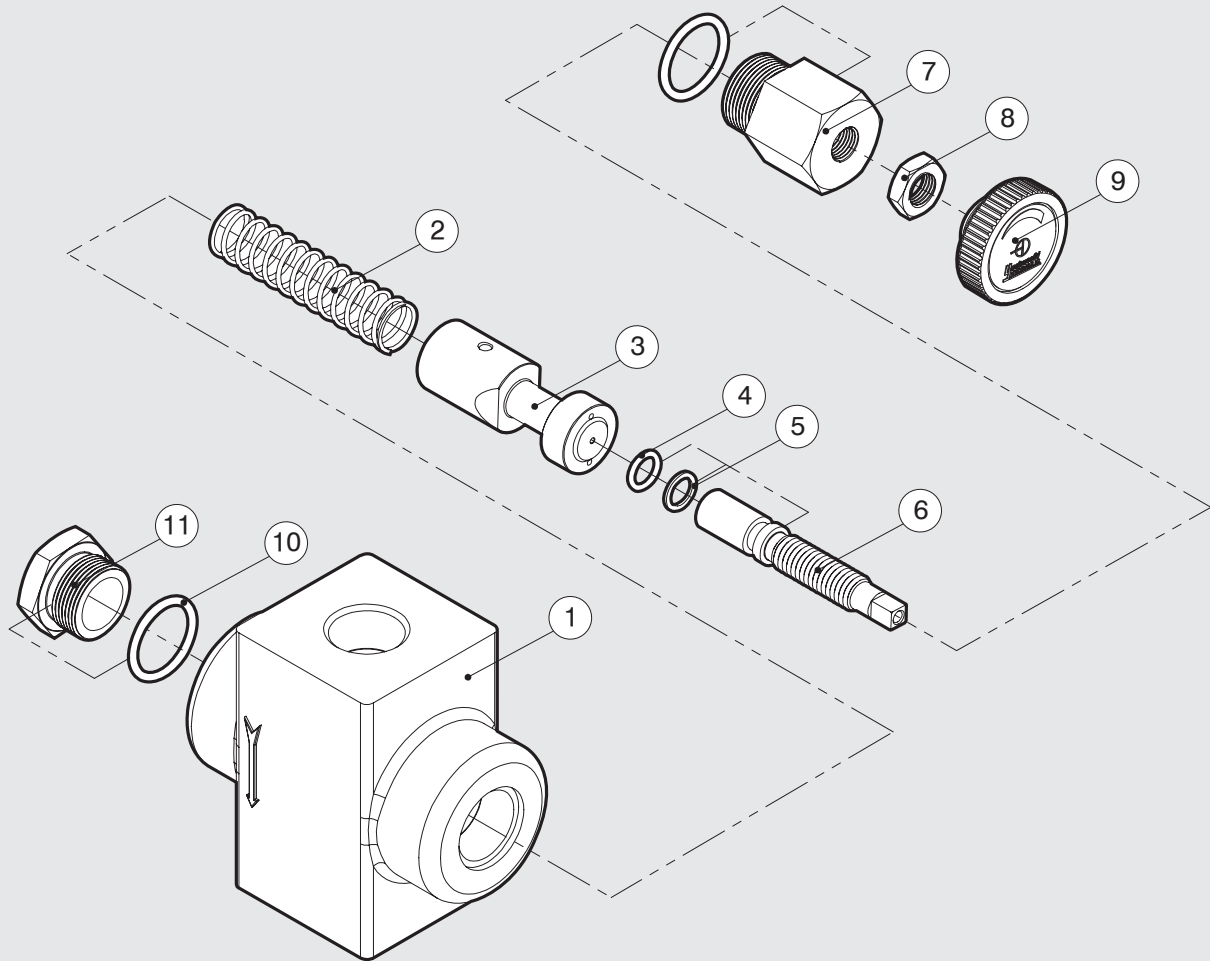


出入油標示 Inlet / outlet sign



爆炸圖 How to order for a complete assembled valve

SRCT-03.04.06.10



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	彈簧 Spring	1
3	心軸 Spool	1
4	SRCT-03 JIS B 2401-1A-P12	1
	SRCT-04 JIS B 2401-1A-P12	1
	SRCT-06 JIS B 2401-1A-P10A	1
	SRCT-10 JIS B 2401-1A-P16	1
5	SRCT-03 JIS B 2407-T2-P12	1
	SRCT-04 JIS B 2407-T2-P12	1
	SRCT-06 JIS B 2407-T2-P10A	1
	SRCT-10 JIS B 2407-T2-P16	1

項次編號 No.	品名 Name of parts	數量 Q
6	心軸調整螺絲 Screw for spool adj.	1
7	把手螺母 Nut	1
8	螺母 Nut	1
9	調整壓力把手 Pressure adj. handle	1
10	SRCT-03 JIS B 2401-1A-P15	1
	SRCT-04 JIS B 2401-1A-P15	1
	SRCT-06 JIS B 2401-1A-G25	2
	SRCT-10 JIS B 2401-1A-P32	2
11	螺母 Nut	1

流量控制閥 (減速閥附止回閥)

FLOW CONTROL VALVE (Deceleration with check valve)

- 通過閥的流量，由凸輪操作的閥蕊調整，當閥蕊壓下時，在常開型閥中流量減小。它們主要用於控制機床或類似場合的執行元件的速度。
- The flow goes through the valve is adjusted by spool cam operated. When spool is pushed down, the flow with normally open is getting smaller. They are used to control the machine tool or the speed of actuator at similar places.



CLT-03.06



CLG-03.06

流量控制閥 減速閥附止回閥
Flow Control Valve (Deceleration with check valve)

型號意義 How to order :

CL T - 06 - O

1 2 3 4

1	CL: 附止回閥 / L: 無止回閥	CL: Check valve / L: None check valve
2	G: 板式連接 / T: 管式連接	G: SUB-Plate mounting / T: Threaded connections
3	口徑代號	Valve size 03:3/8", 06:3/4"
4	O: 常開型-無記號 / N: 常閉型	O: Normally open-No code / N: Normally closed

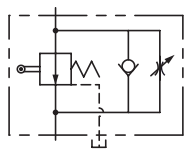
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
減速閥附止回閥 Deceleration with check valve	3/8	CLT-03	30	4.8
	3/4	CLT-06	85	5
	3/8	CLG-03	30	4.8
	3/4	CLG-06	85	9

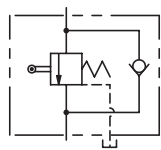
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
CLG-03	M8 x 70L 4 支 piece	JIS B 2401-1B-P9 1 條 piece JIS B 2401-1B-P18 2 條 piece
CLG-06	M10 x 100L 4 支 piece	JIS B 2401-1B-P14 1 條 piece JIS B 2401-1B-P28 2 條 piece

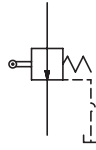
圖形符號 Graphic symbol :



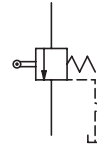
常開
Normally Open
CLG/CLT



常閉
Normally Closed
CLG/CLT

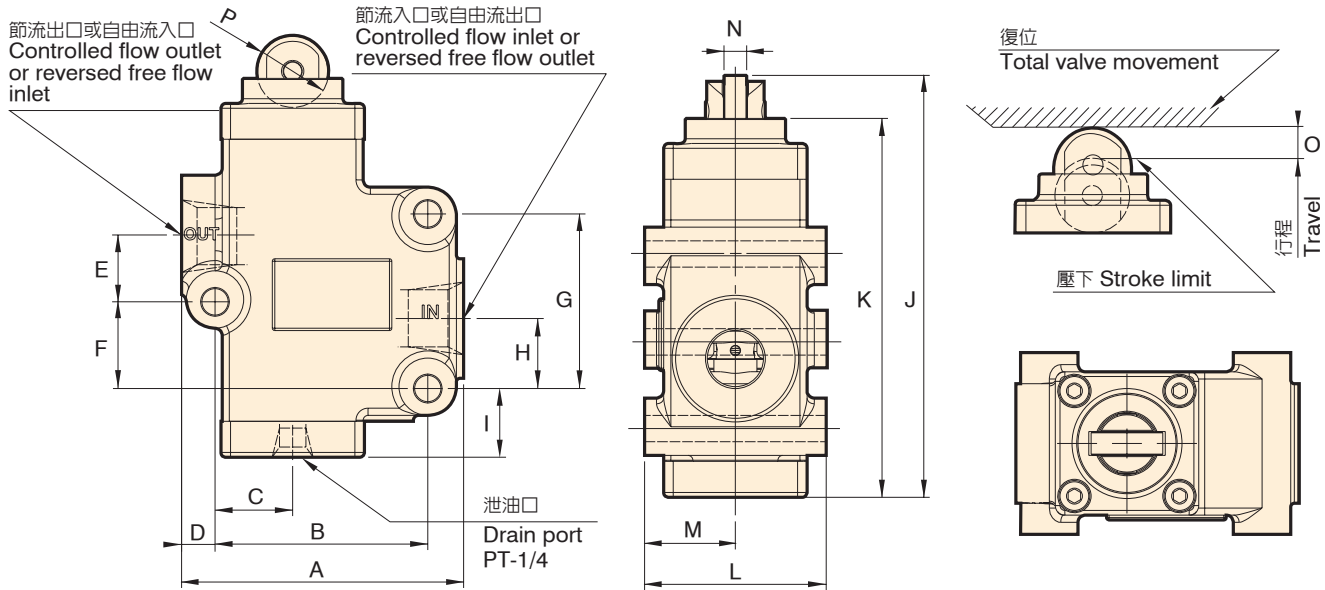


常開
Normally Open
LG/LT



常閉
Normally Closed
LG/LT

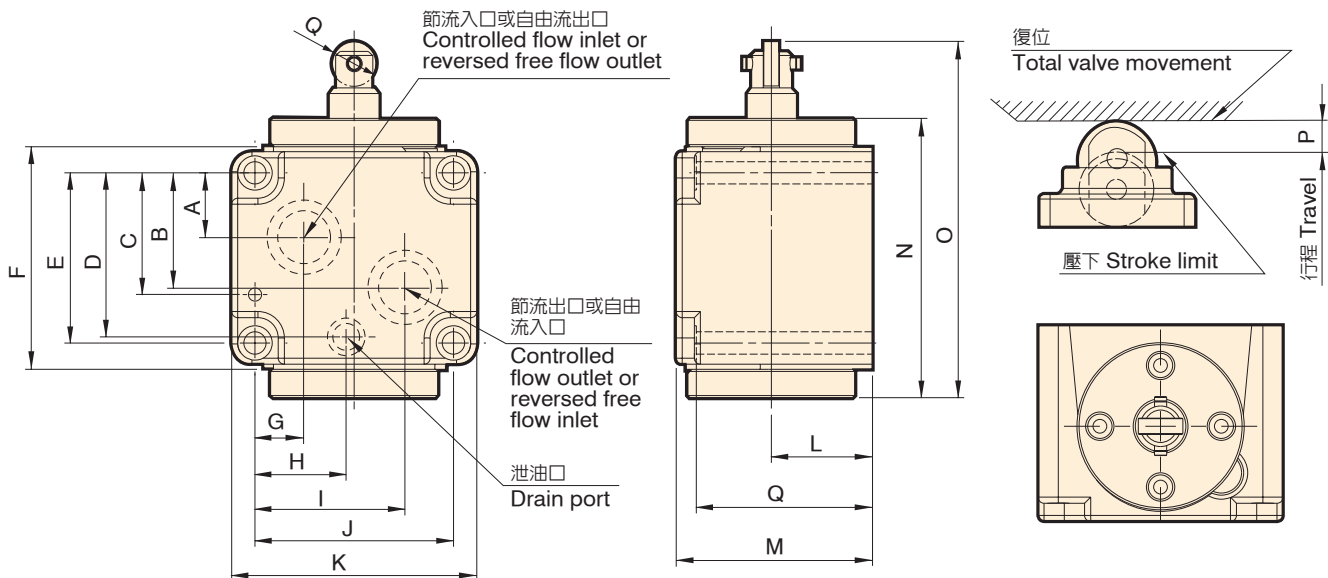
CLT-03.06



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
CLT-03	116	84	31	16	34	16	68	26	29	161	142	68	34	8	12	27
CLT-06	118	90	33	13.5	28	35	73	29	30	176.5	160	76	38	10	12	30

CLG-03.06



單位 Unit : mm

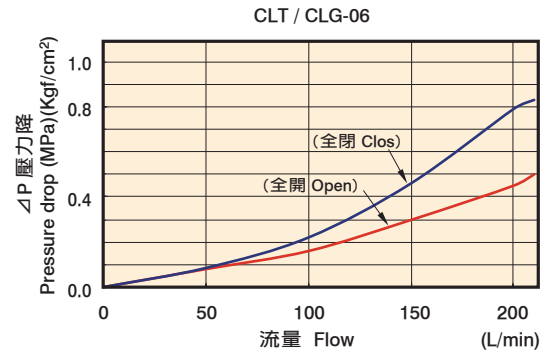
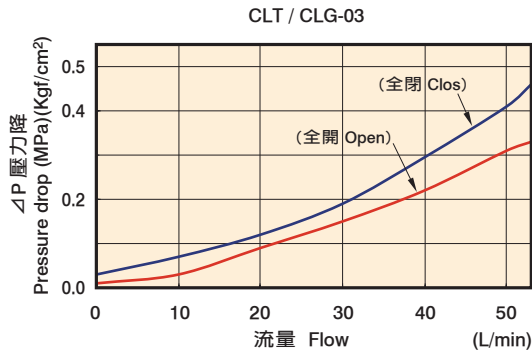
型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
CLG-03	20	40	44	58	60	89	20	38	60	80	105	35	74	113	133	12	60
CLG-06	32	57	60	81	84	110	23.9	45	73.95	98	121	50	97	138.5	200	12	87

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

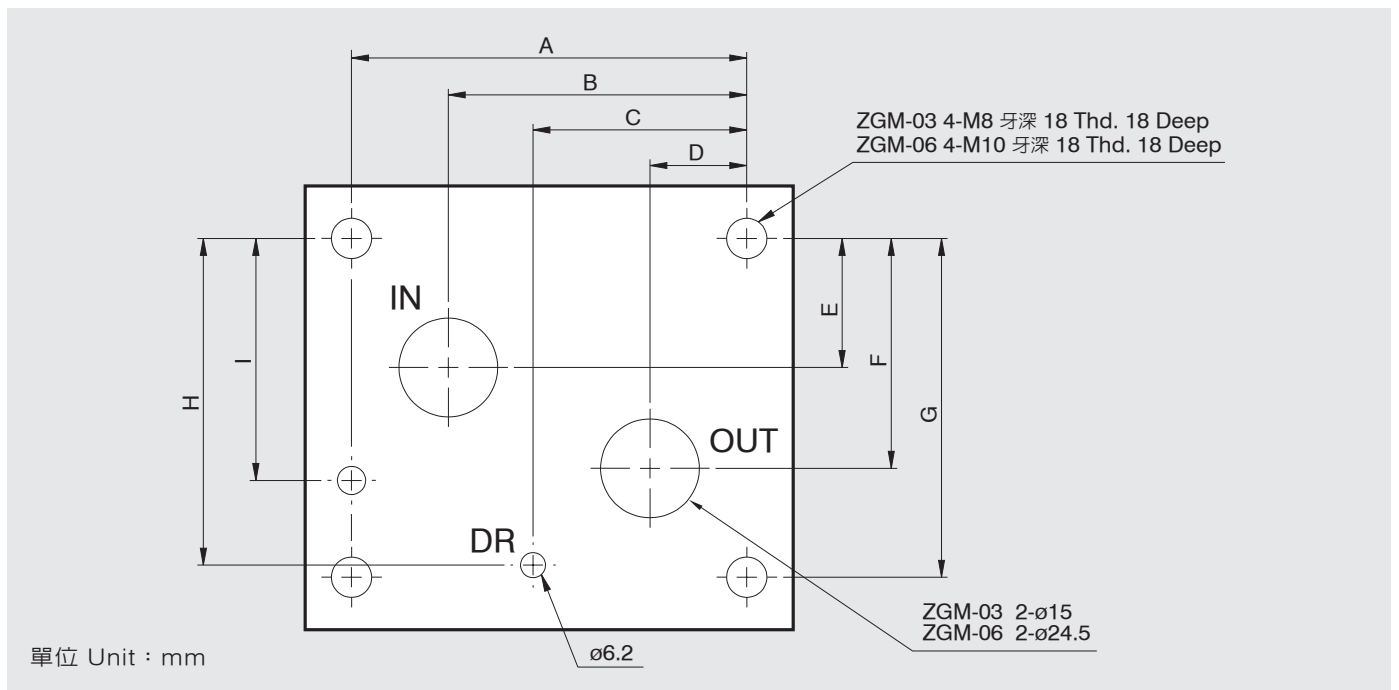
The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}



流量控制閥 減速閥附止回閥
Flow Control Valve (Deceleration with check valve)

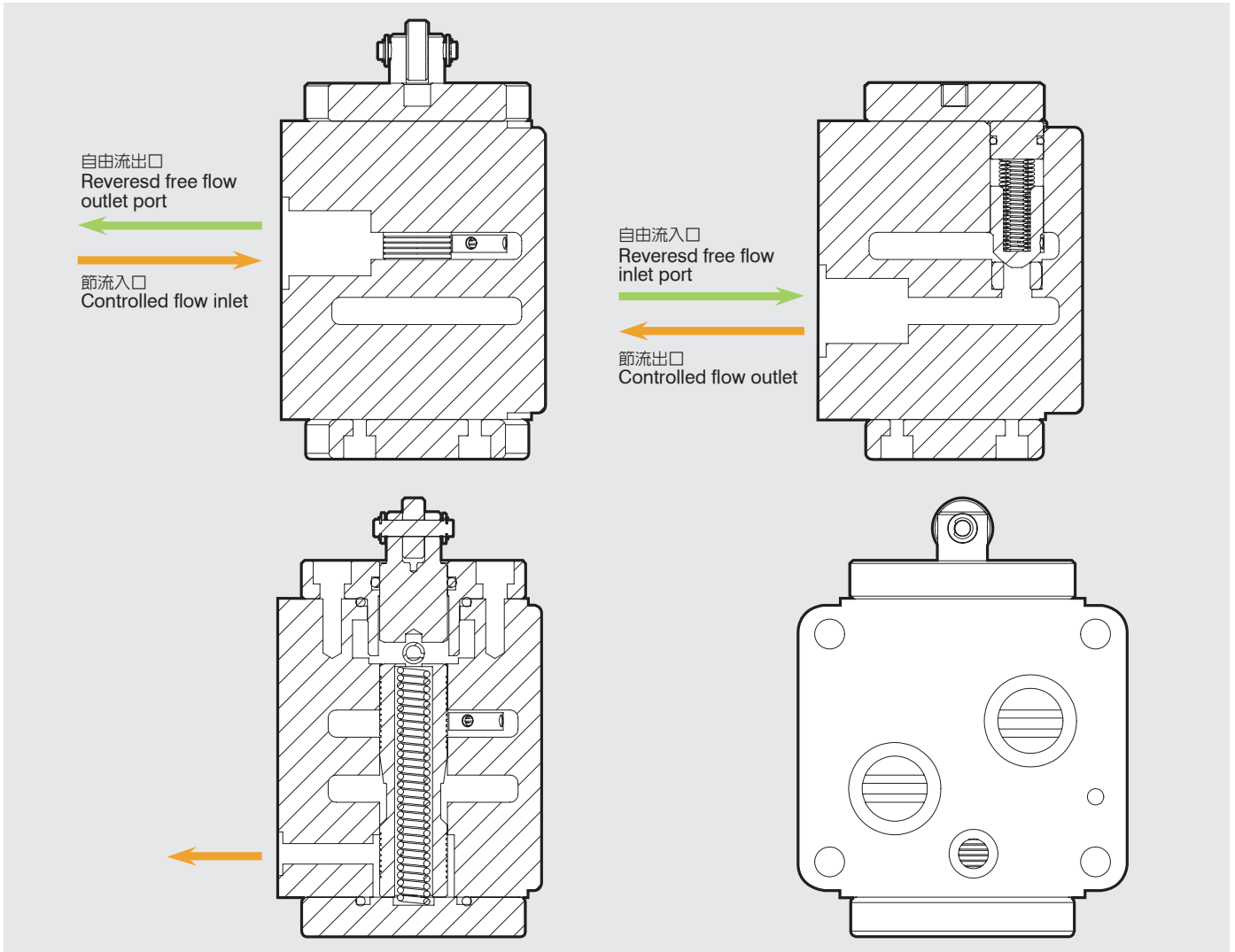
底板尺寸圖 Bottom plate dimensions



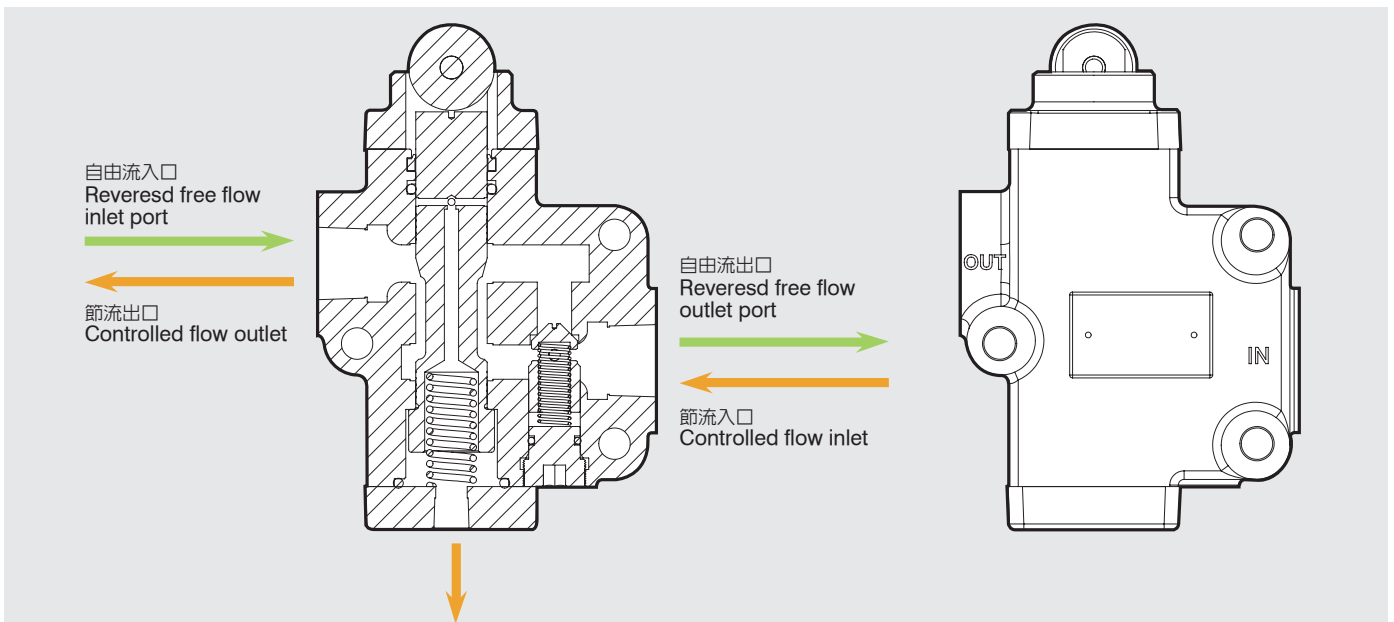
單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I				
CLG-03 (ZGM-03)	80	60	42	20	20	40	60	58	44				
CLG-06 (ZGM-06)	98	74	53	24	32	57	84	81	60				

CLG 出入油標示 CLG Inlet / outlet sign



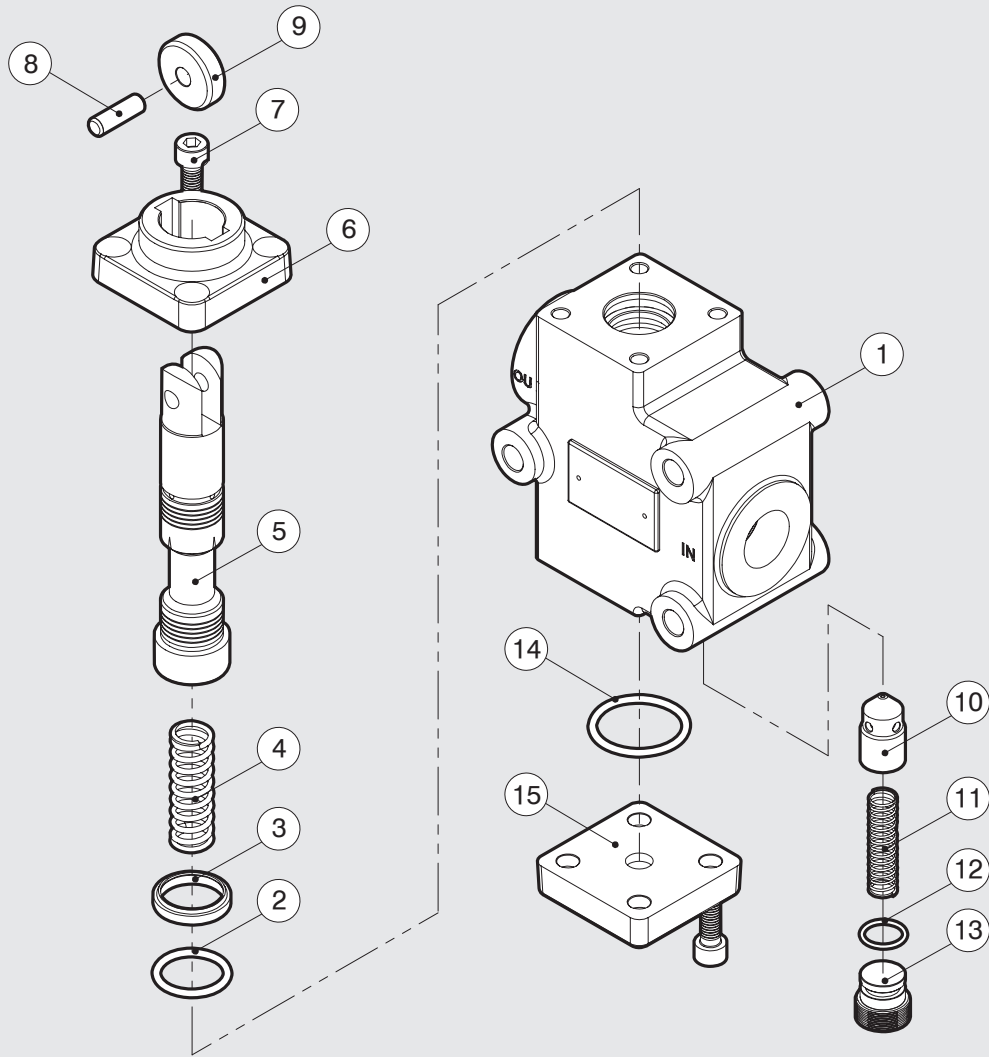
CLT 出入油標示 CLT Inlet / outlet sign



爆炸圖 How to order for a complete assembled valve

流量控制閥 減速閥附止回閥
Flow Control Valve (Deceleration with check valve)

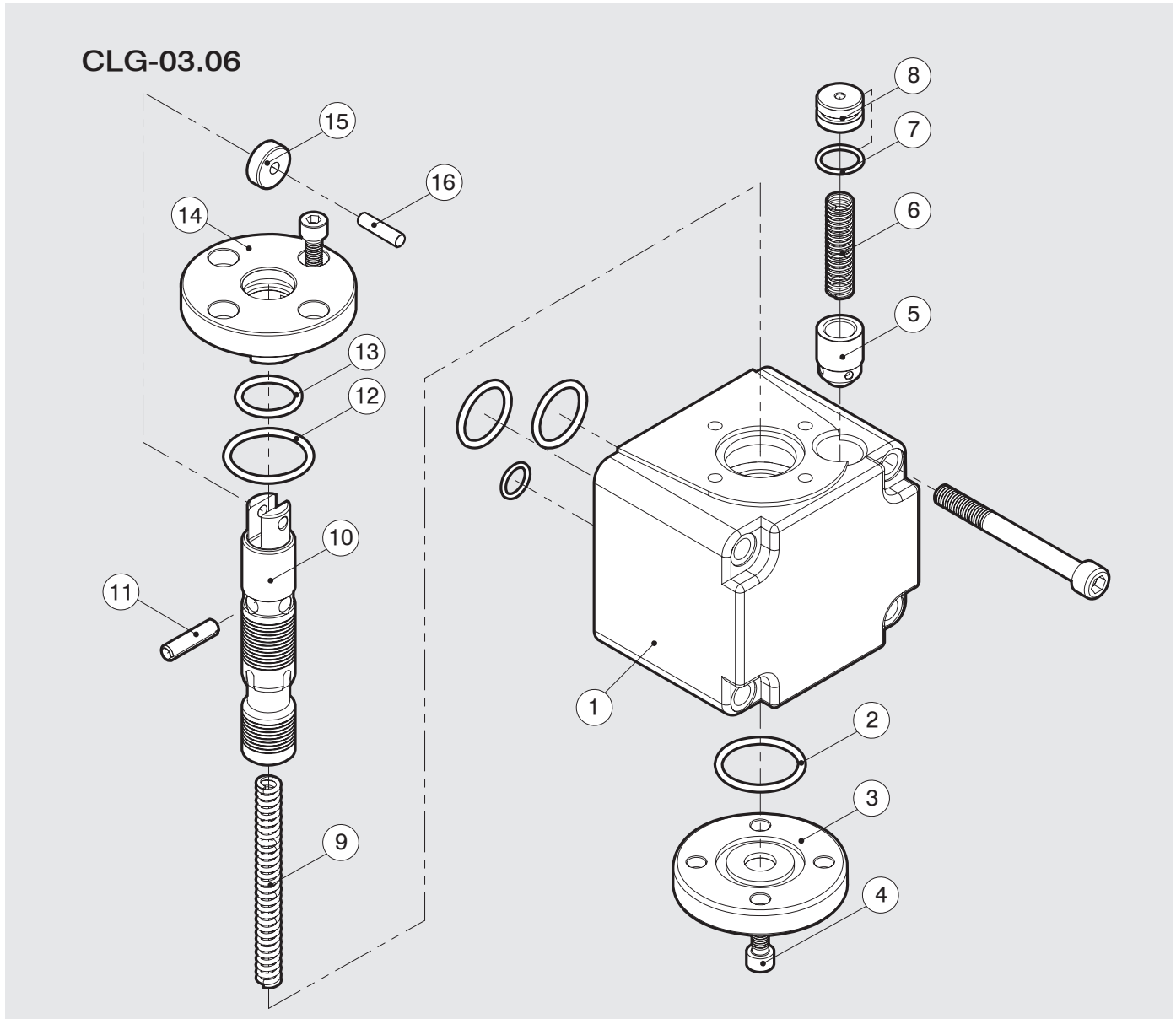
CLT-03.06



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	CLT-03 JIS B 2401-1A-P20	1
	CLT-06 JIS B 2401-1A-P25	1
3	CLT-03 SER-20	1
	CLT-06 SER-25	1
4	彈簧 Spring	1
5	心軸 Spool	1
6	閥蓋 Cover	1
7	M8 x 20L	8
8	鋼棒 Straight pin	1

項次編號 No.	品名 Name of parts	數量 Q
9	滾輪 Wheel	1
10	槍子閥 Check valve	1
11	彈簧 Spring	1
12	CLT-03 JIS B 2401-1A-P10A	1
	CLT-06 JIS B 2401-1A-P14	1
13	螺母 Nut	1
14	CLT-03 JIS B 2401-1B-P32	1
	CLT-06 JIS B 2401-1B-P34	1
15	底蓋 Cover	1

爆炸圖 How to order for a complete assembled valve



項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	CLG-03 JIS B 2401-1B-P32	1
	CLG-06 JIS B 2401-1B-P36	1
3	底蓋 Cover	1
4	CLG-03 M6 x 20L 下 Down	4
	CLG-03 M6 x 15L 上 Up	4
	CLG-06 M8 x 20L	8
5	槍子閥 Check valve	1
6	彈簧 Spring	1
7	CLG-03 JIS B 2401-1A-P12	1
	CLG-06 JIS B 2401-1A-P18	1

項次編號 No.	品名 Name of parts	數量 Q
8	推桿 Push rod	1
9	彈簧 Spring	1
10	心軸 Spool	1
11	彈簧插銷 Spring pin	1
12	CLG-03 JIS B 2401-1B-P32	1
	CLG-06 JIS B 2401-1B-P36	1
13	CLG-03 JIS B 2401-1A-P20	1
	CLG-06 JIS B 2401-1A-P25	1
14	閥蓋 Cover	1
15	滾輪 Wheel	1
16	鋼棒 Straight pin	1

- DSHG 系列電磁換向閥之構造，是由方向控制閥和電磁閥組成。
- DSHG series solenoid operated directional valves is composed of directional control valves and solenoid.



DSHG-03
DSHG-04
DSHG-04-AB
DSHG-06
DSHG-06-AB
DSHG-10
DSHG-10-AB

型號意義 How to order :

DSHG 3C2 - 04 - AB - E - T

1 2 3 4 5 6

1	系列號	Series
2	心軸型號 (參照147-150頁)	Spool type (P.147-150)
3	口徑代號	Valve size 03:3/8", 04:1/2", 06:3/4", 10:1-1/4"
4	微調把手	Fine-tune the handle
5	E:外部引導 / 無記號:內部引導	E: External pilot / No code: Internal pilot
6	T:內部回油 / 無記號:外部回油	T: Internal drain / No code: External drain

產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最高使用壓力 Max. Pressure (Kgf/cm ²)	引導壓力 Pilot Pressure (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
電磁換向閥 Solenoid operated directional control valve	3/8	DSHG-03	250	10~210	150	5.4
	1/2	DSHG-04		7~250	300	5.9
	1/2	DSHG-04-AB				7.2
	3/4	DSHG-06		8~250	500	11.8
	3/4	DSHG-06-AB				13
	1-1/4	DSHG-10				48.1
	1-1/4	DSHG-10-AB		10~250	1100	

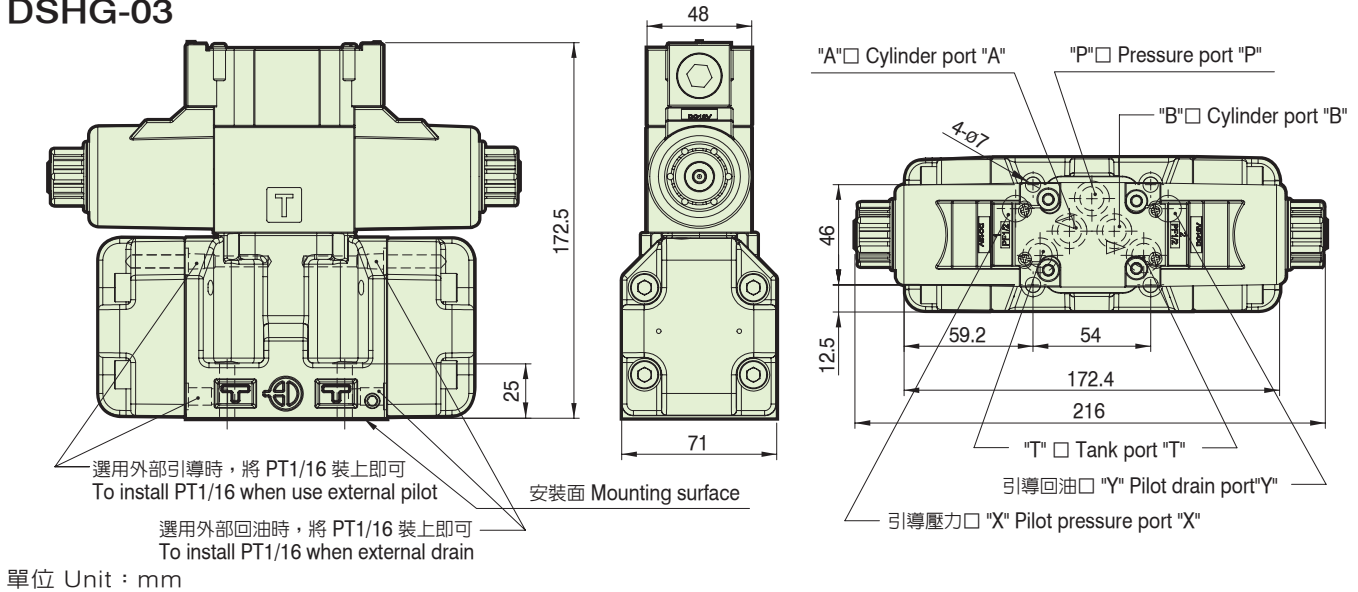
- ※ X, Y 為外部引導，外部回油。
- ※ X 為外部引導，內部回油。
- ※ Y 為內部引導，外部回油。
- ※ 此重量為不含電磁閥之淨重。

- ※ X, Y For External Pilot, External Drain.
- ※ X For External Pilot, Internal Drain.
- ※ Y For Internal Pilot, External Drain.
- ※ The weight excludes the N. W. of solenoid valve.

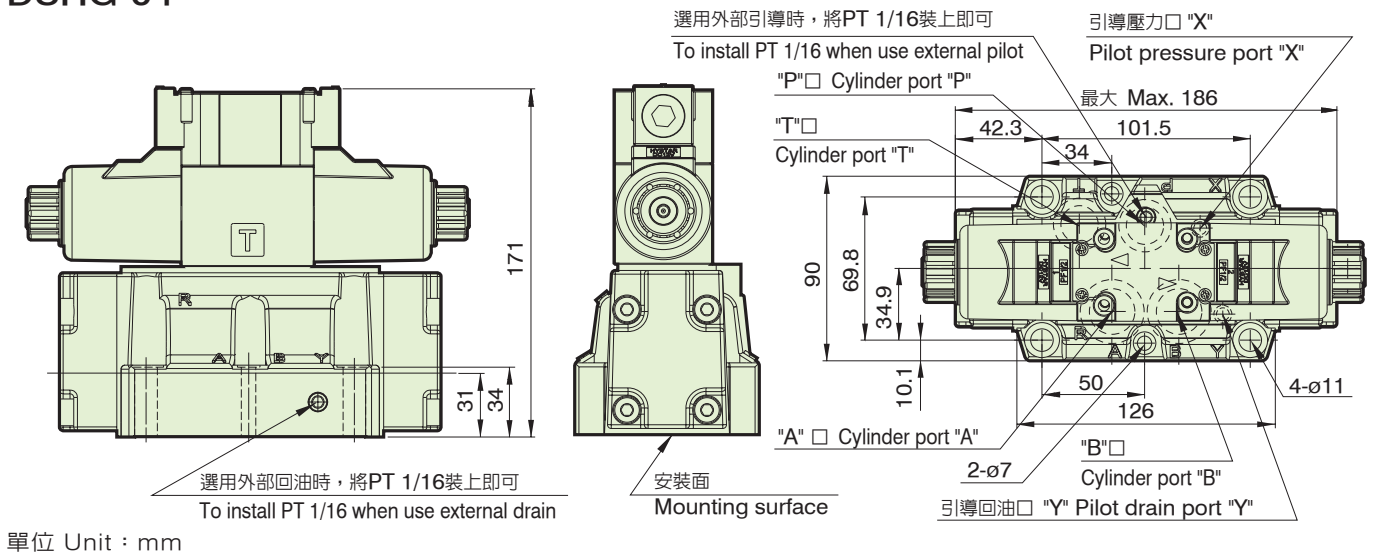
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring			
DSHG-03	M6 x 35L	4 支 piece	JIS B 2401-1B-P9	2 條 piece	JIS B 2401-1B-P12	5 條 piece
DSHG-04	M10 x 45L	4 支 piece	JIS B 2401-1B-P9	2 條 piece	JIS B 2401-1B-P22A	4 條 piece
DSHG-04-AB	M6 x 40L	2 支 piece				
DSHG-06	M12 x 55L	6 支 piece	JIS B 2401-1B-P14	2 條 piece	JIS B 2401-1B-P32	4 條 piece
DSHG-06-AB						
DSHG-10	M20 x 75L	6 支 piece	JIS B 2401-1B-P20	2 條 piece	JIS B 2401-1B-P42	4 條 piece
DSHG-10-AB						

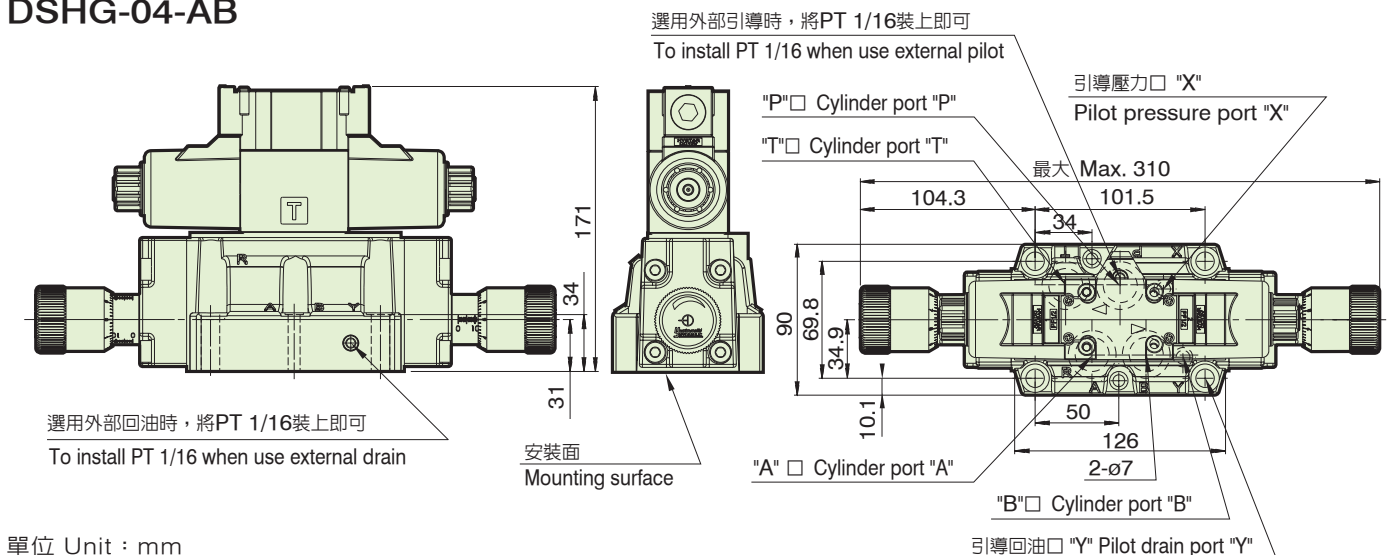
DSHG-03



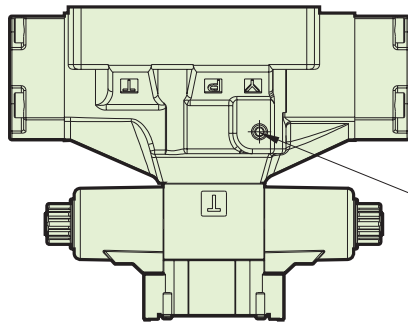
DSHG-04



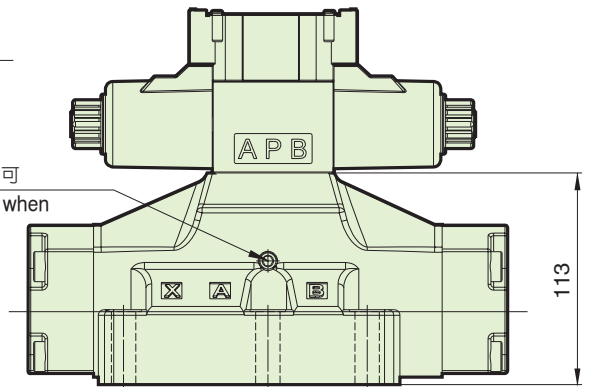
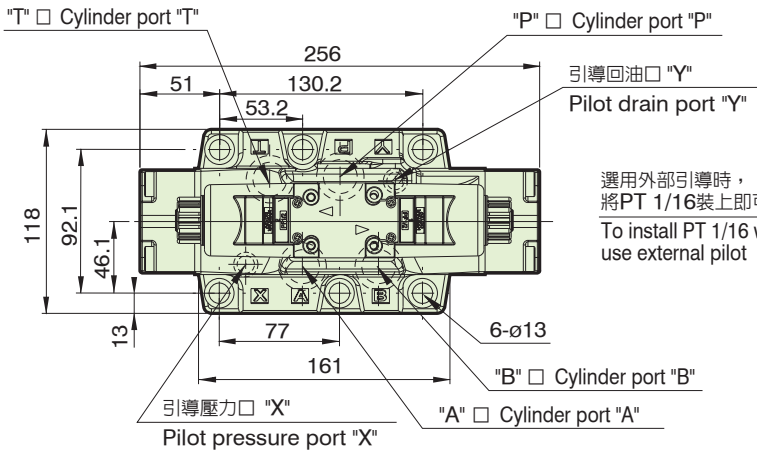
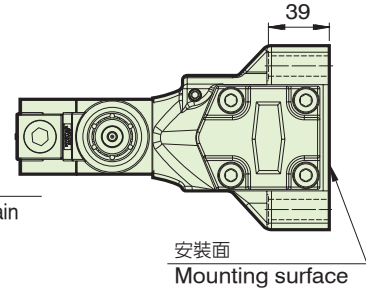
DSHG-04-AB



DSHG-06

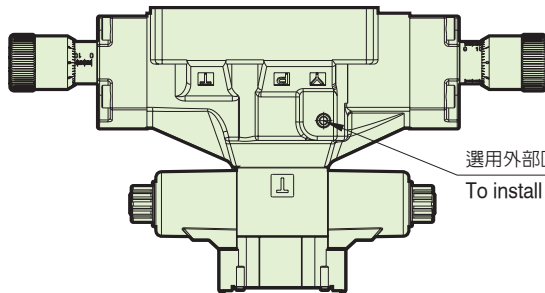


選用外部回油時，將PT 1/16裝上即可
To install PT 1/16 when use external drain

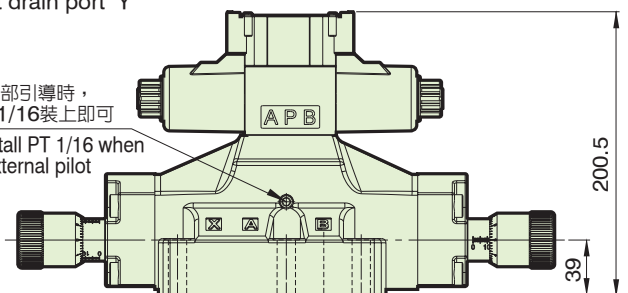
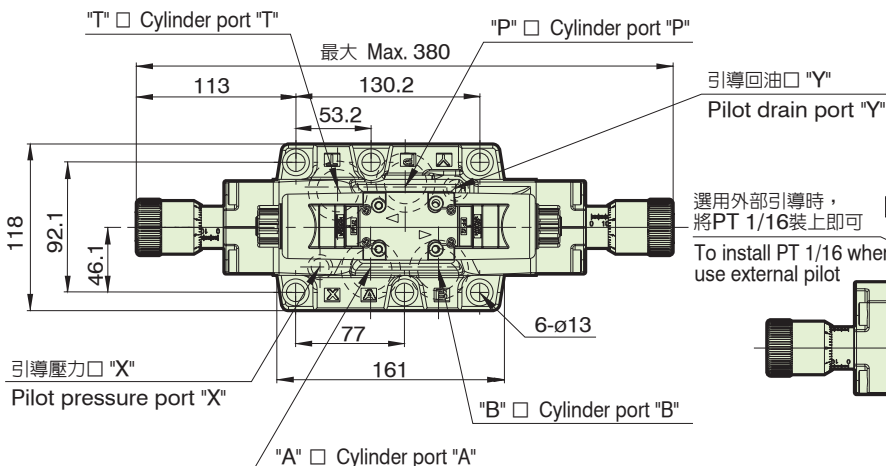
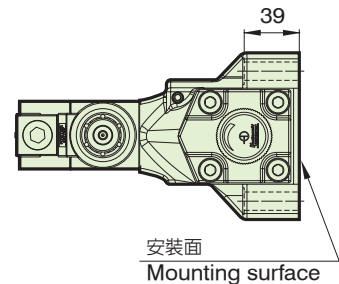


單位 Unit : mm

DSHG-06-AB

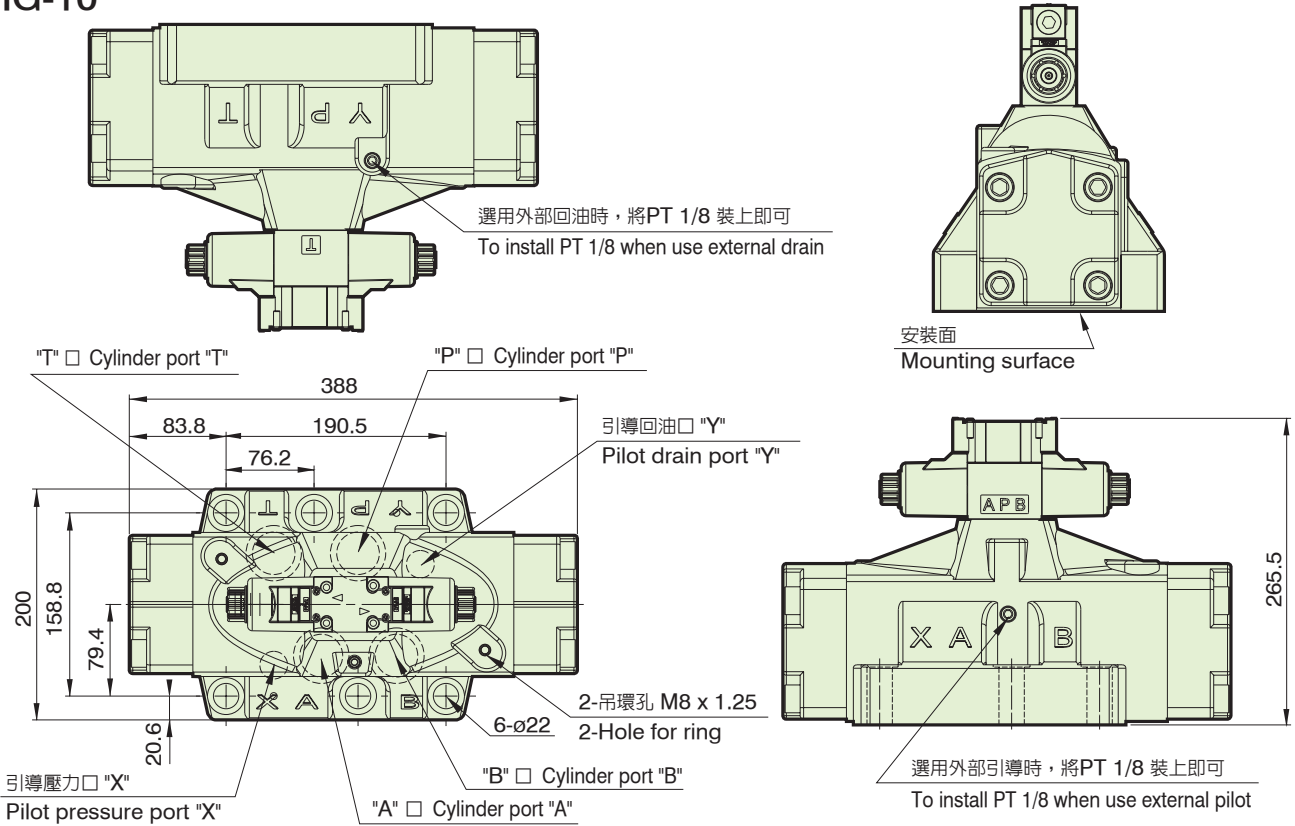


選用外部回油時，將PT 1/16 裝上即可
To install PT 1/16 when use external drain



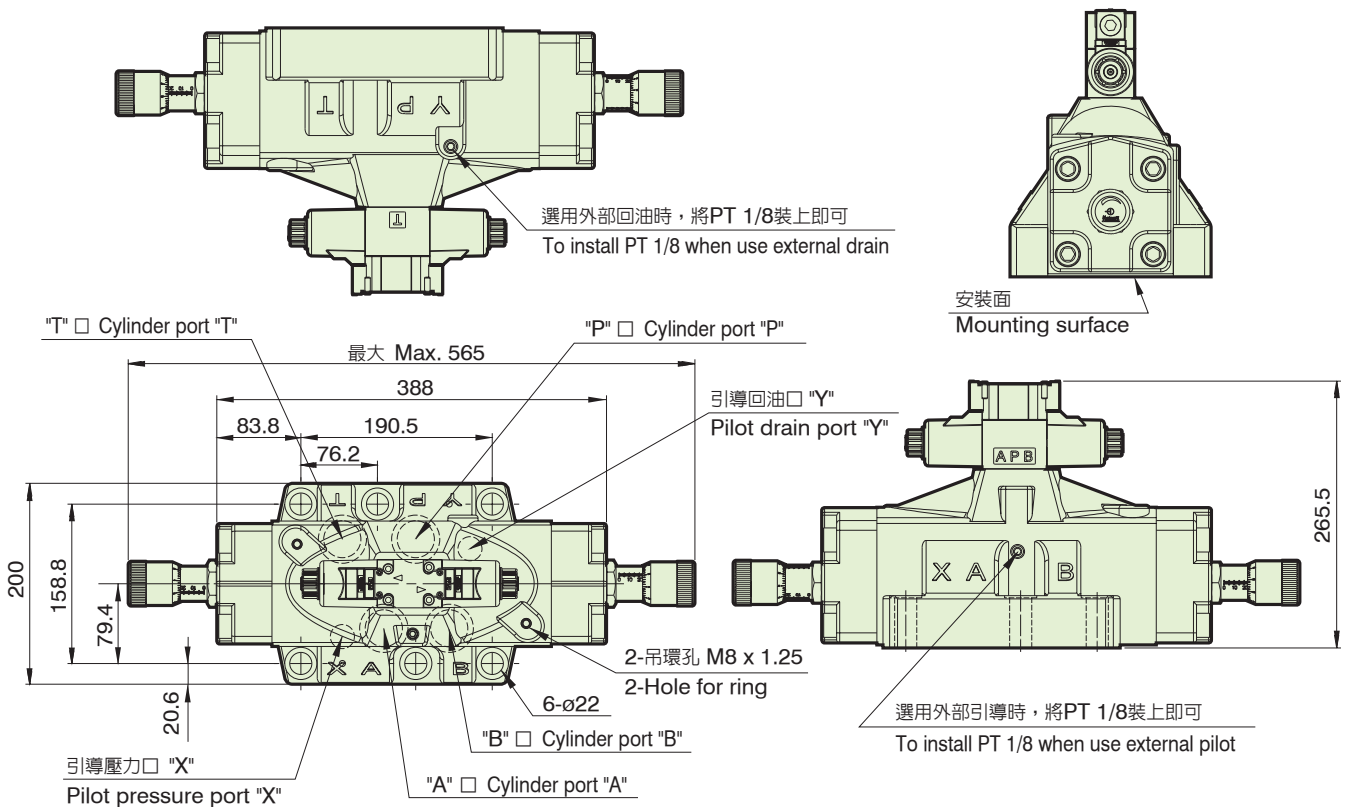
單位 Unit : mm

DSHG-10



單位 Unit : mm

DSHG-10-AB



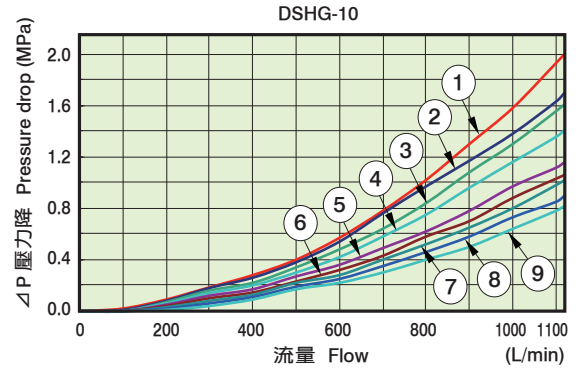
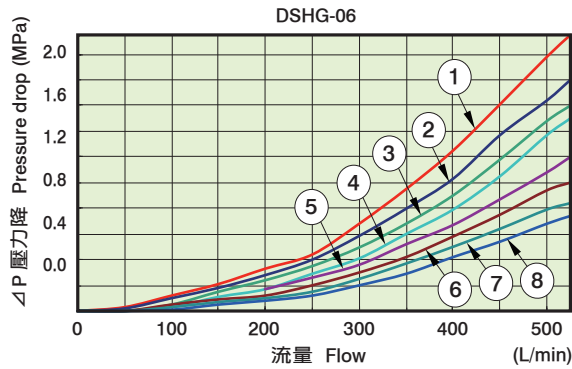
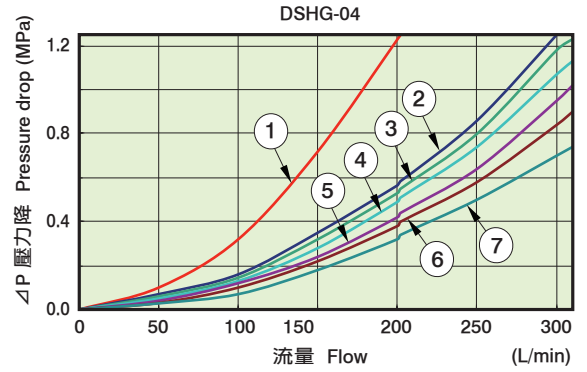
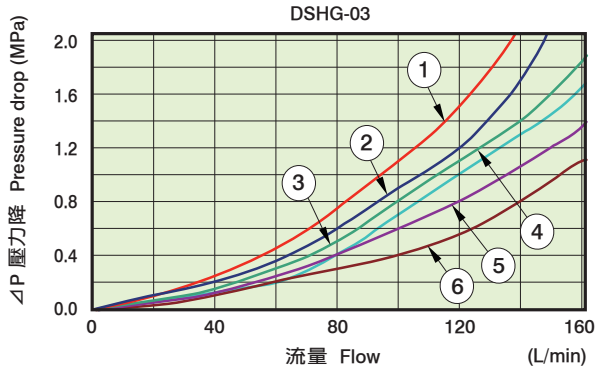
單位 Unit : mm

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 30mm²/s {cSt}



方向控制閥 電磁換向閥
Directional Control Valve (Solenoid operated directional control valve)

■ 黏度係數表 Viscosity

黏度	mm ² /s {cSt}	15	20	30	40	50	60	70	80	90	100
Viscosity	SSU	77	98	141	186	232	278	324	371	471	464
係數 Coefficient		0.81	0.87	0.96	1.03	1.09	1.14	1.19	1.23	1.27	1.30

■ DSHG-03

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
2	③	③	④	④	-
3	⑤	⑤	⑤	⑥	④
4	③	⑤	④	⑥	-
40	③	③	④	④	-
5	⑥	③	④	⑥	②
6	③	③	④	④	①

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
7	③	③	④	④	-
9	⑥	③	⑥	④	-
10	③	⑤	④	④	-
11	⑥	③	④	④	-
12	③	③	④	⑥	-

■ DSHG-04

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
2	⑤	④	⑤	⑥	-
3	⑤	③	⑤	⑤	⑦
4	⑤	③	⑤	⑤	-
40	⑤	④	⑤	⑥	-
5	⑦	④	⑤	⑤	⑤
6	⑤	③	⑤	⑥	①

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
2	②	②	②	④	-
4	②	③	②	⑤	-
40	②	④	②	⑥	-

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
60	⑦	⑤	⑦	⑦	②
7	⑤	④	⑤	⑥	-
9	⑤	④	⑤	⑥	-
10	⑤	②	⑤	⑥	-
11	⑥	④	⑤	⑥	-
12	⑤	④	⑤	⑤	-

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
60	⑥	④	⑥	⑦	②
10	②	②	②	④	-
12	②	②	②	⑤	-

■ DSHG-06

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
2	⑧	⑤	⑧	⑦	-
3	⑥	④	⑥	⑦	④
4	⑧	⑤	⑧	⑦	-
40	⑧	⑤	⑧	⑦	-
5	⑧	④	⑤	⑦	①
6	⑤	③	⑤	④	①

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
2	⑥	①	⑥	②	-
4	⑥	②	⑥	②	-
40	⑧	⑤	⑧	⑦	-

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
60	⑥	⑤	⑥	⑦	①
7	⑥	④	⑥	⑦	-
9	⑥	④	⑥	⑦	-
10	⑧	⑤	⑧	⑦	-
11	⑧	④	⑤	⑦	-
12	⑧	⑤	⑧	⑦	-

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
60	⑥	②	⑥	③	①
10	⑧	⑤	⑧	⑦	-
12	⑧	⑤	⑧	⑦	-

■ DSHG-10

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
2	⑨	⑥	⑨	⑧	-
3	⑦	⑥	⑦	⑦	⑤
4	⑨	⑥	⑨	⑥	-
40	⑨	⑥	⑨	⑧	-
5	⑨	⑥	⑧	⑥	①
6	⑤	③	⑤	④	②

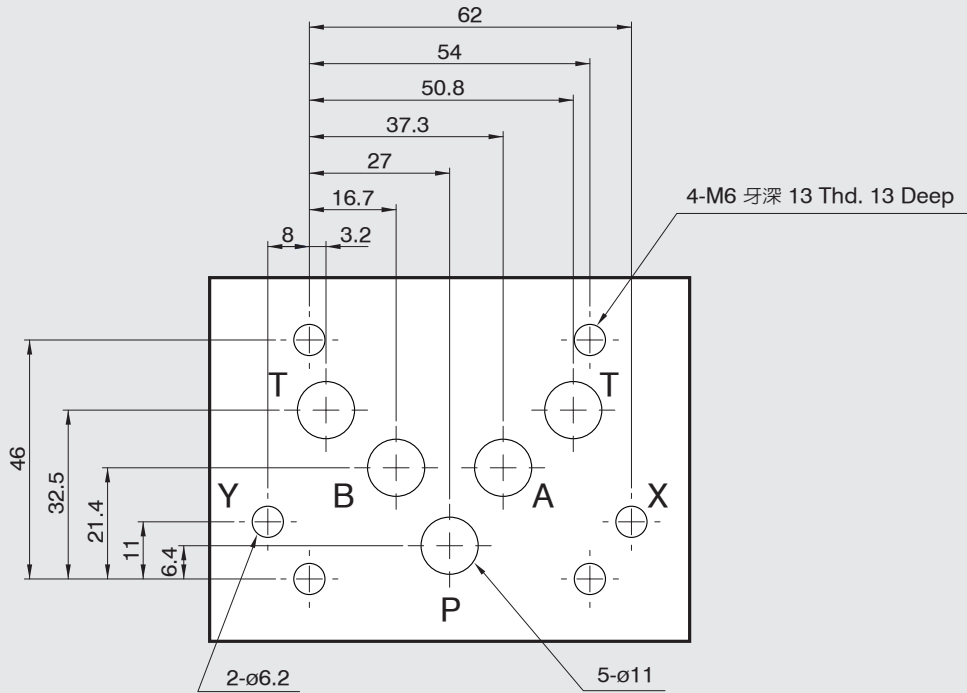
閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
2	⑧	③	⑧	④	-
4	⑧	⑤	⑧	⑥	-
40	⑨	⑥	⑨	⑧	-

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
60	⑧	⑤	⑧	⑤	②
7	⑦	⑥	⑦	⑦	-
9	⑦	⑥	⑦	⑧	-
10	⑨	⑤	⑨	⑧	-
11	⑨	⑥	⑧	⑦	-
12	⑨	⑦	⑨	⑥	-

閥蕊形式 Spool type	壓力降曲線型號 A Pressure drop curve numbers A				
	P→A	B→T	P→B	A→T	P→T
60	⑧	④	⑧	④	②
10	⑨	⑤	⑨	⑧	-
12	⑨	⑦	⑨	⑥	-

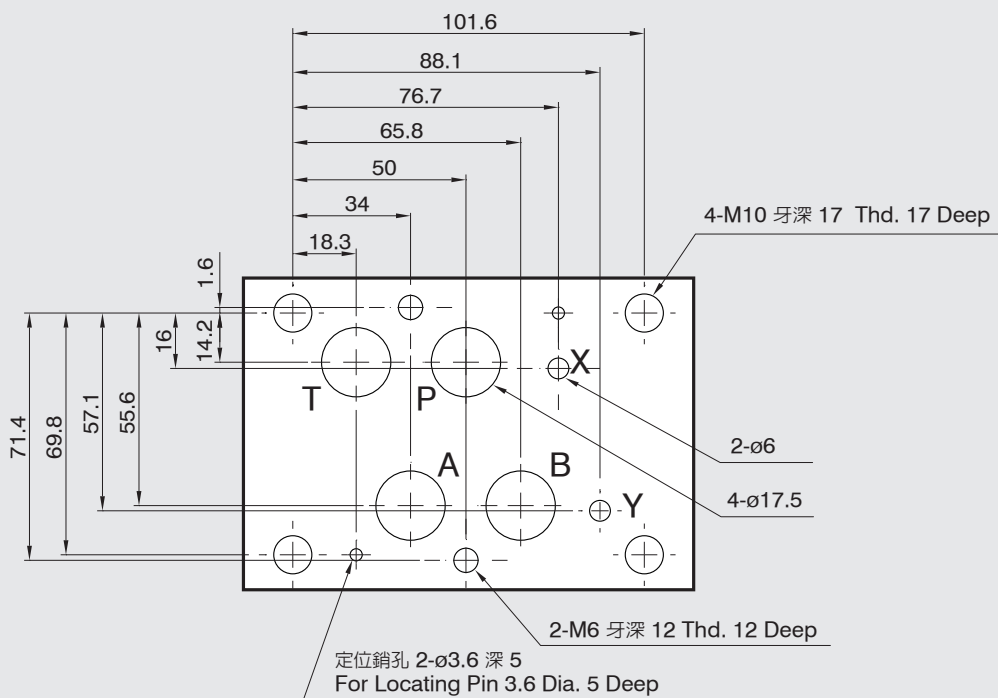
底板尺寸圖 Bottom plate dimensions

DSHG-03 (DHGM-03)



單位 Unit : mm

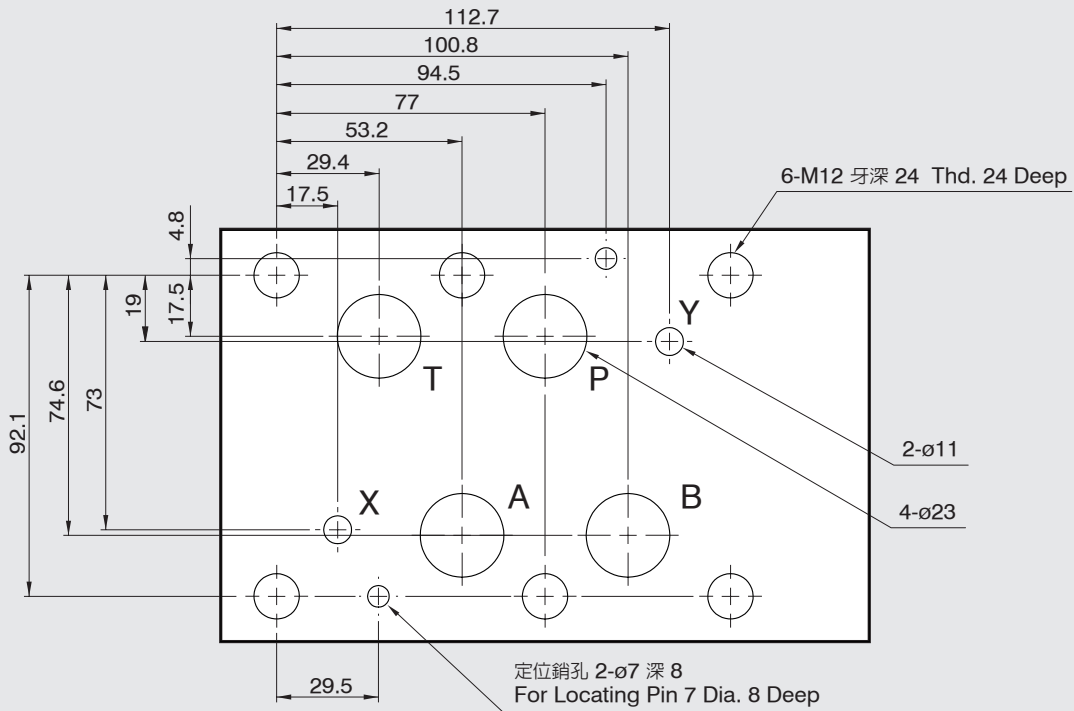
DSHG-04 (DHGM-04)



單位 Unit : mm

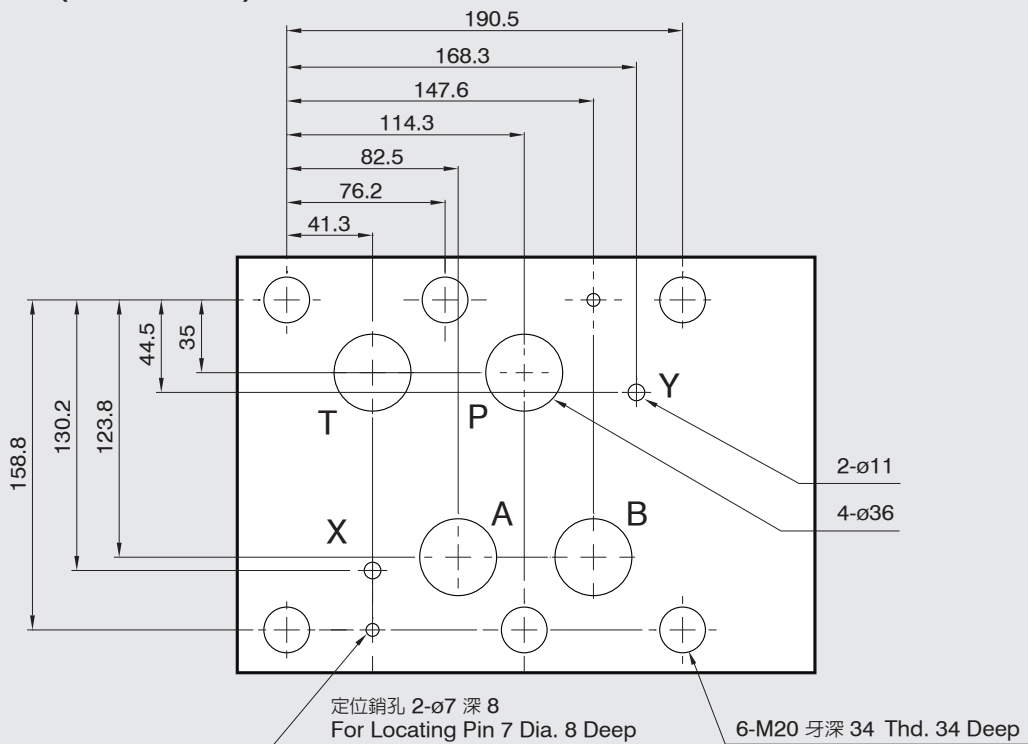
底板尺寸圖 Bottom plate dimensions

DSHG-06 (DHGM-06)



單位 Unit : mm

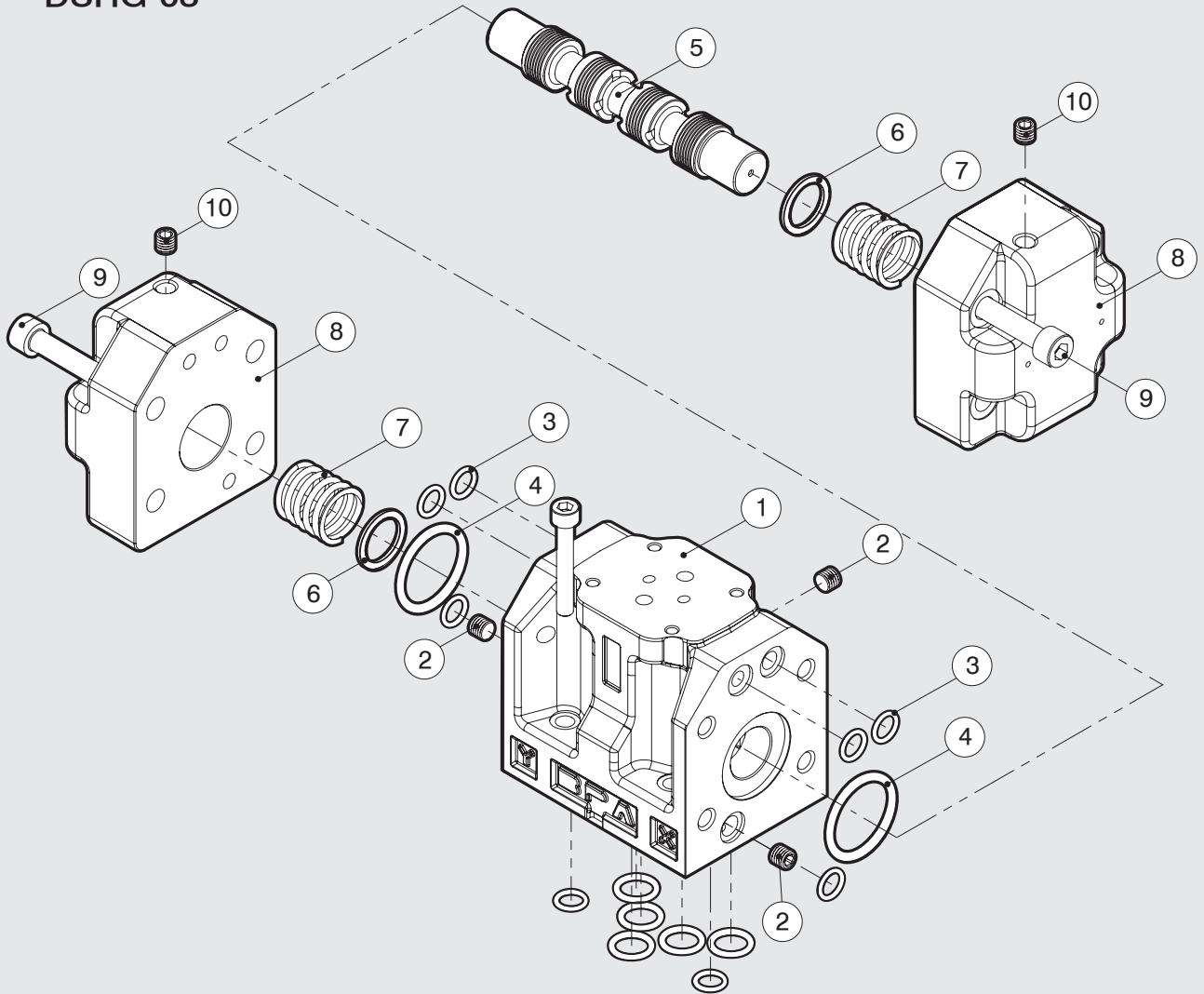
DSHG-10 (DHGM-10)



單位 Unit : mm

爆炸圖 How to order for a complete assembled valve

DSHG-03

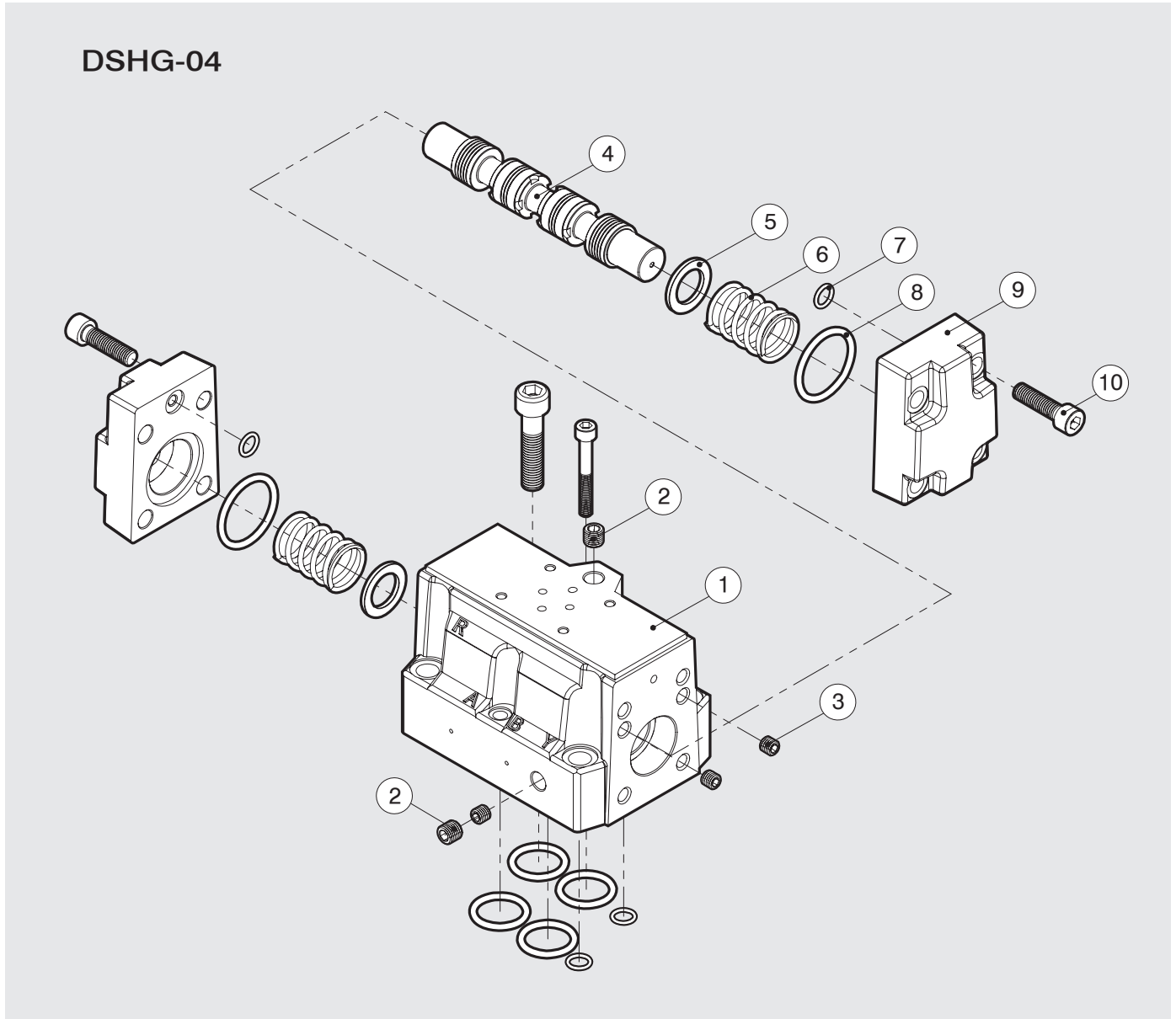


方向控制閥 電磁換向閥
Directional Control Valve (Solenoid operated directional control valve)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/16	3
3	JIS B 2401-1B-P9	6
4	JIS B 2401-1B-P28	2
5	心軸 Spool	1

項次編號 No.	品名 Name of parts	數量 Q
6	墊片 Washer	2
7	彈簧 Spring	2
8	閥蓋 Cover	2
9	M8 x 35L	8
10	PT 1/16	2

爆炸圖 How to order for a complete assembled valve

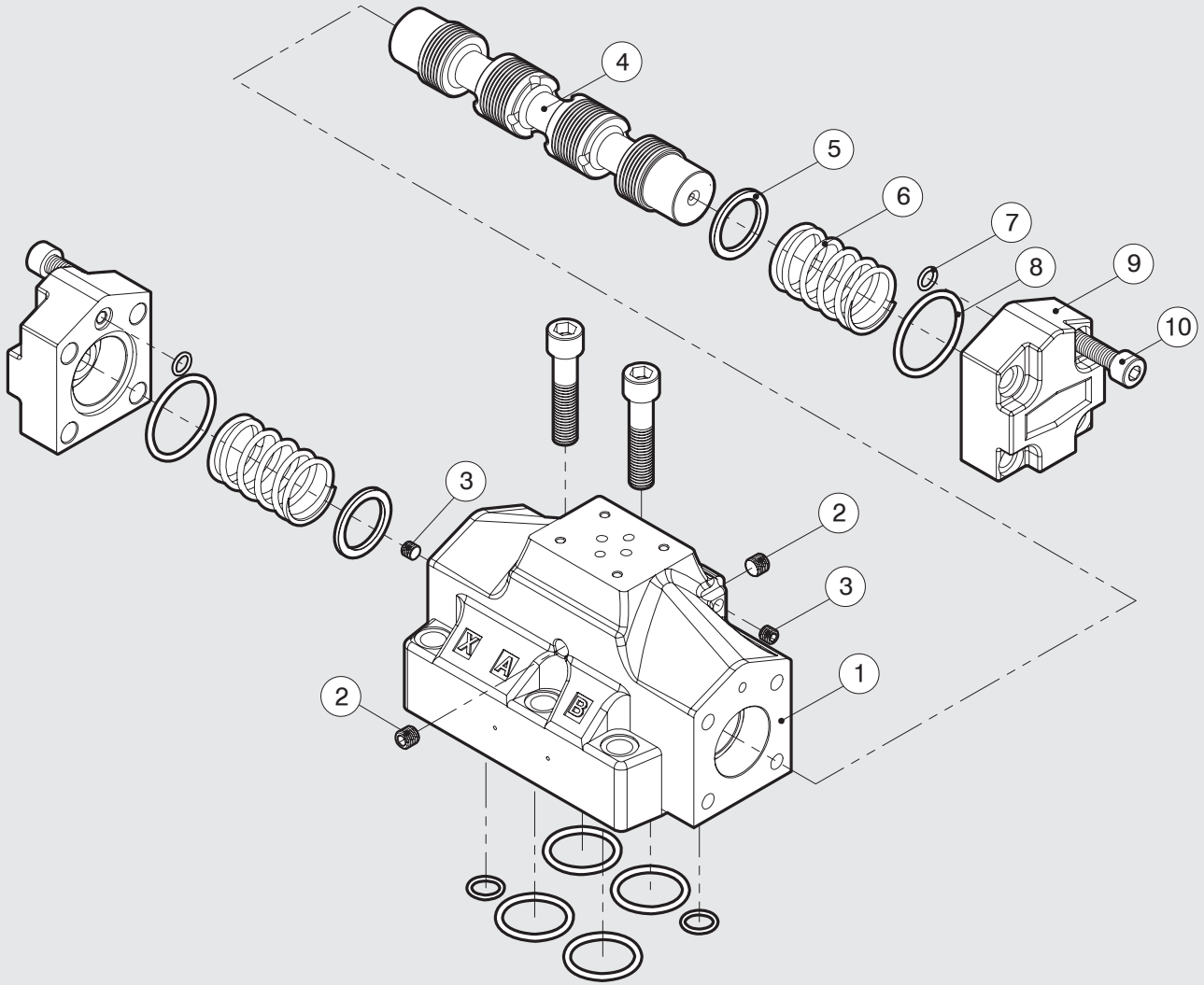


方向控制閥 電磁換向閥
Directional Control Valve (Solenoid operated directional control valve)

項次編號 No.	品名 Name of parts	數量 Q	項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1	6	彈簧 Spring	2
2	PT 1/8	2	7	JIS B 2401-1B-P9	2
3	PT 1/16	3	8	JIS B 2401-1B-P32	2
4	心軸 Spool	1	9	閥蓋 Cover	2
5	墊片 Washer	2	10	M8 x 30L	8

爆炸圖 How to order for a complete assembled valve

DSHG-06

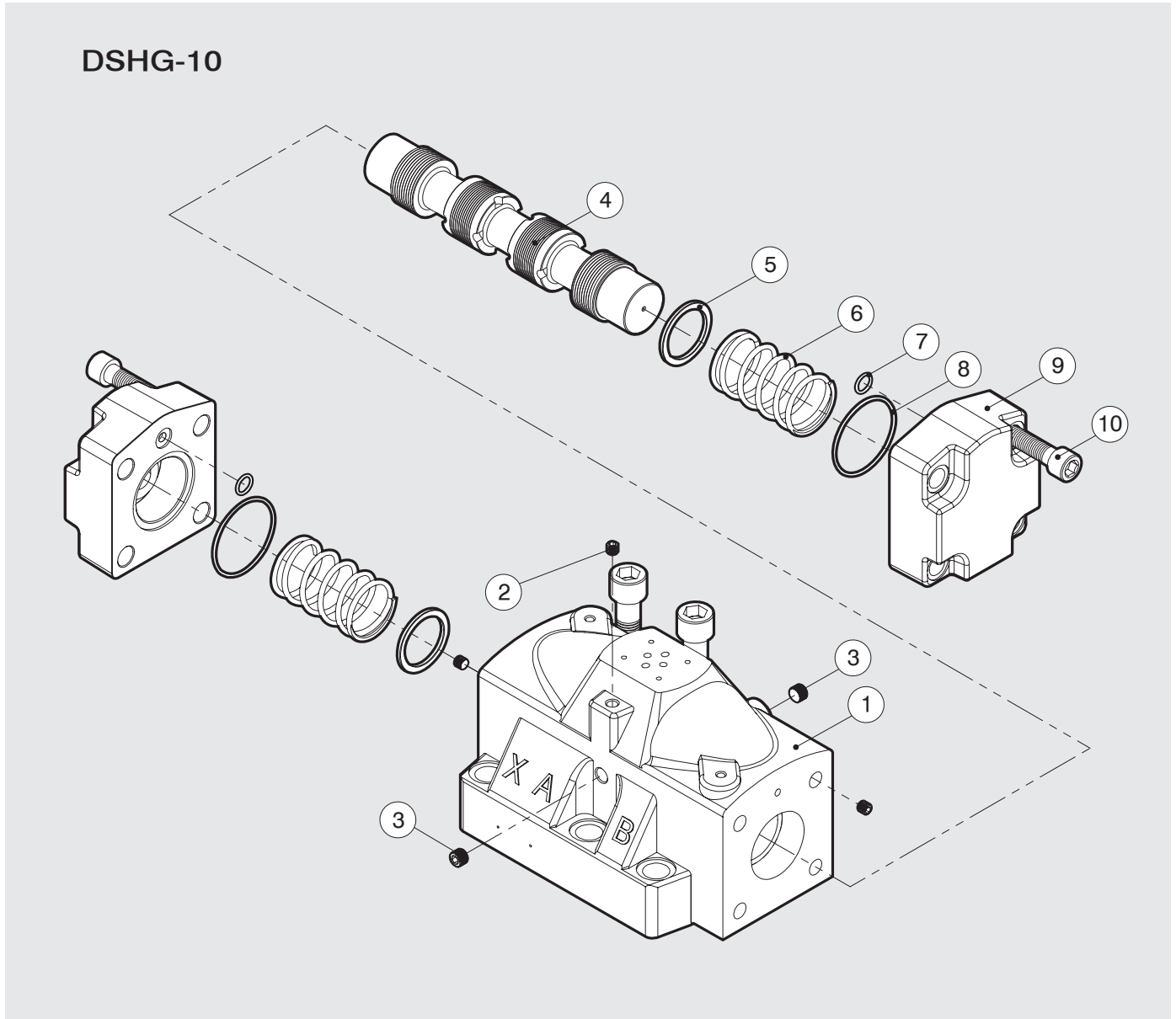


方向控制閥 電磁換向閥
 Directional Control Valve (Solenoid operated directional control valve)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/8	2
3	PT 1/16	2
4	心軸 Spool	1
5	墊片 Washer	2

項次編號 No.	品名 Name of parts	數量 Q
6	彈簧 Spring	2
7	JIS B 2401-1B-P9	2
8	JIS B 2401-1B-P40	2
9	閥蓋 Cover	2
10	M10 x 35L	8

爆炸圖 How to order for a complete assembled valve



方向控制閥 電磁換向閥
Directional Control Valve (Solenoid operated directional control valve)

項次編號 No.	品名 Name of parts	數量 Q	項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1	6	彈簧 Spring	2
2	PT 1/8	1	7	JIS B 2401-1B-P14	2
3	PT 1/4	4	8	JIS B 2401-1B-G65	2
4	心軸 Spool	1	9	閥蓋 Cover	2
5	墊片 Washer	2	10	M16 x 60L	8

- 本液控換向閥是以外控先導壓力來推動心軸，從而改變液壓系統的油流方向。
- Pilot operated directional valve shifts the spool by external control pilot pressure, and changed the flow direction of hydraulic system.



DHG-03. 04. 06. 10

型號意義 How to order :

DHG 3C2 - 06 - E - 1

1 2 3 4 5

1	系列號	Series
2	心軸型式	Spool type
3	口徑代號	Valve size
4	E: 外部引導控制	E: External Pilot Control
5	使用XY引導孔，作為心軸AB端切換使用	Used pilot operated ports XY, shifts the spool to switch between A and B.

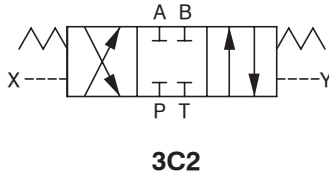
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最高使用壓力 Max. Operating Pressure (Kgf/cm ²)	最高引導壓力 Max. Pilot Pressure (Kgf/cm ²)	最低引導壓力 Min. Pilot Pressure (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
引導方向閥 Pilot operated Directional valves	3/8	DHG-3C※-03	250	210	7	160	5.6
	3/8	DHG-2N※-03				60	5.6
	1/2	DHG-3C※-04	315	250	8	300	6.1
	1/2	DHG-2N※-04				130	6.1
	3/4	DHG-3C※-06				500	12
	3/4	DHG-2N※-06				140	12
	1-1/4	DHG-3C※-10	10	1100	48.3		
	1-1/4	DHG-2N※-10		460	48.3		

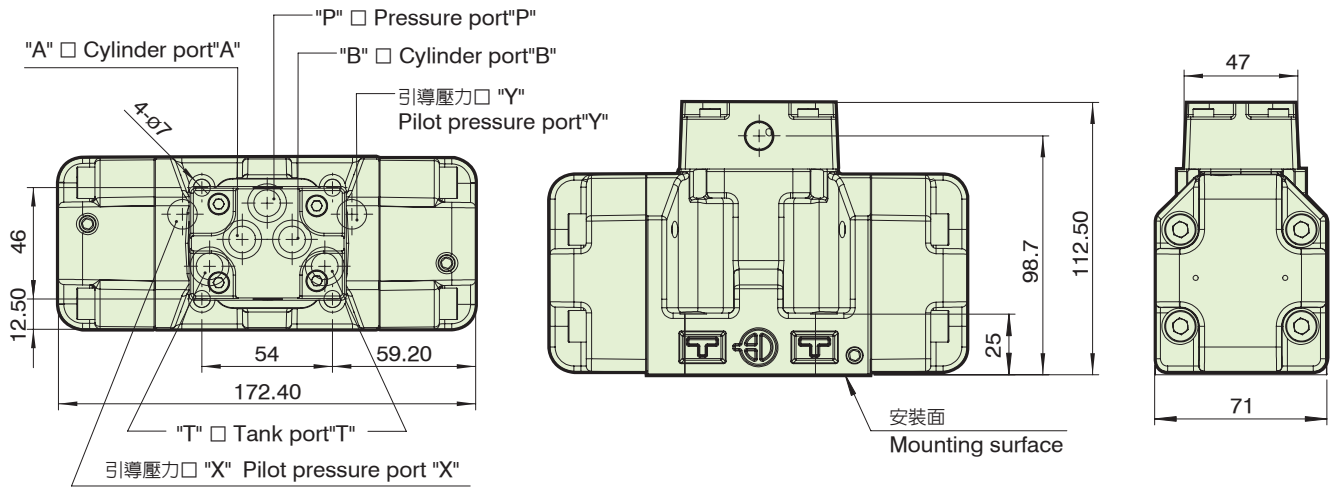
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring			
DHG-03	M6 x 35L	4 支 piece	JIS B 2401-1B-P9	2 條 piece	JIS B 2401-1B-P12	5 條 piece
DHG-04	M6 x 40L	2 支 piece	JIS B 2401-1B-P9	2 條 piece	JIS B 2401-1B-P22A	4 條 piece
	M10 x 45L	4 支 piece				
DHG-06	M12 x 55L	6 支 piece	JIS B 2401-1B-P14	2 條 piece	JIS B 2401-1B-P32	4 條 piece
DHG-10	M20 x 75L	6 支 piece	JIS B 2401-1B-P20	2 條 piece	JIS B 2401-1B-P42	4 條 piece

圖形符號 Graphic symbol :

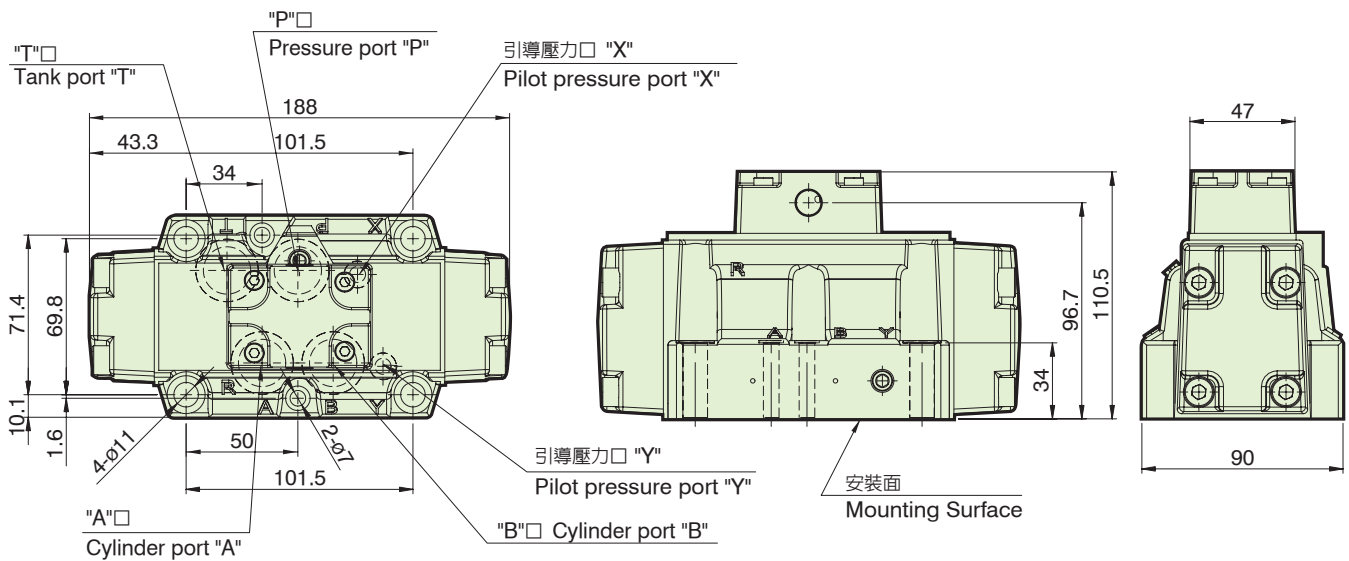


DHG-03



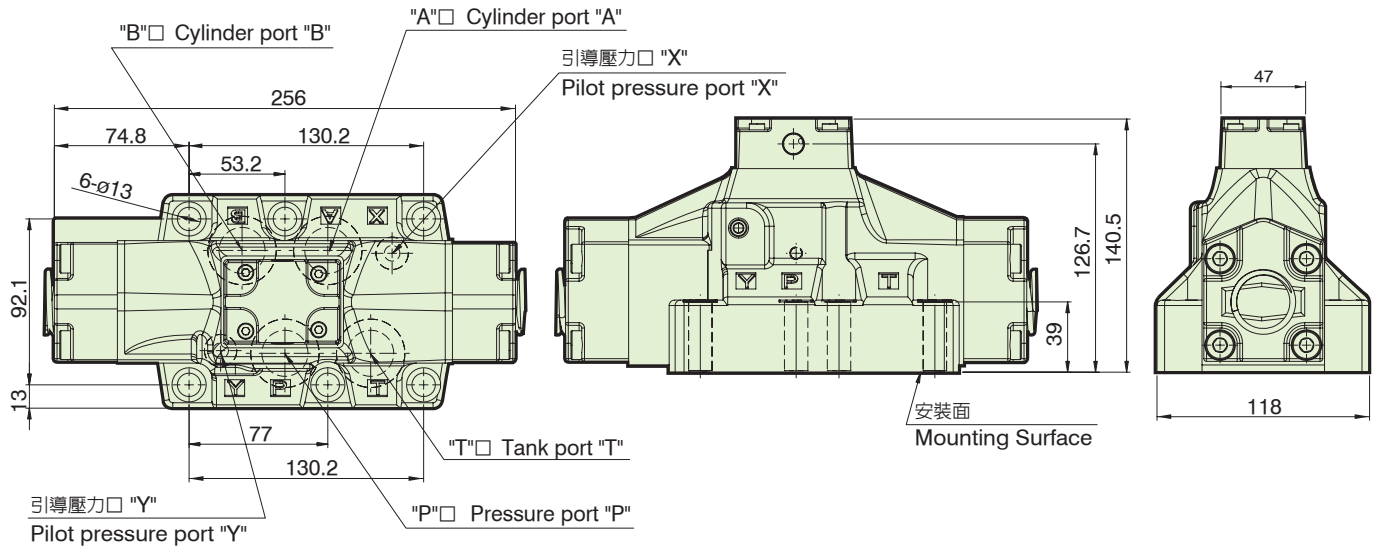
單位 Unit : mm

DHG-04



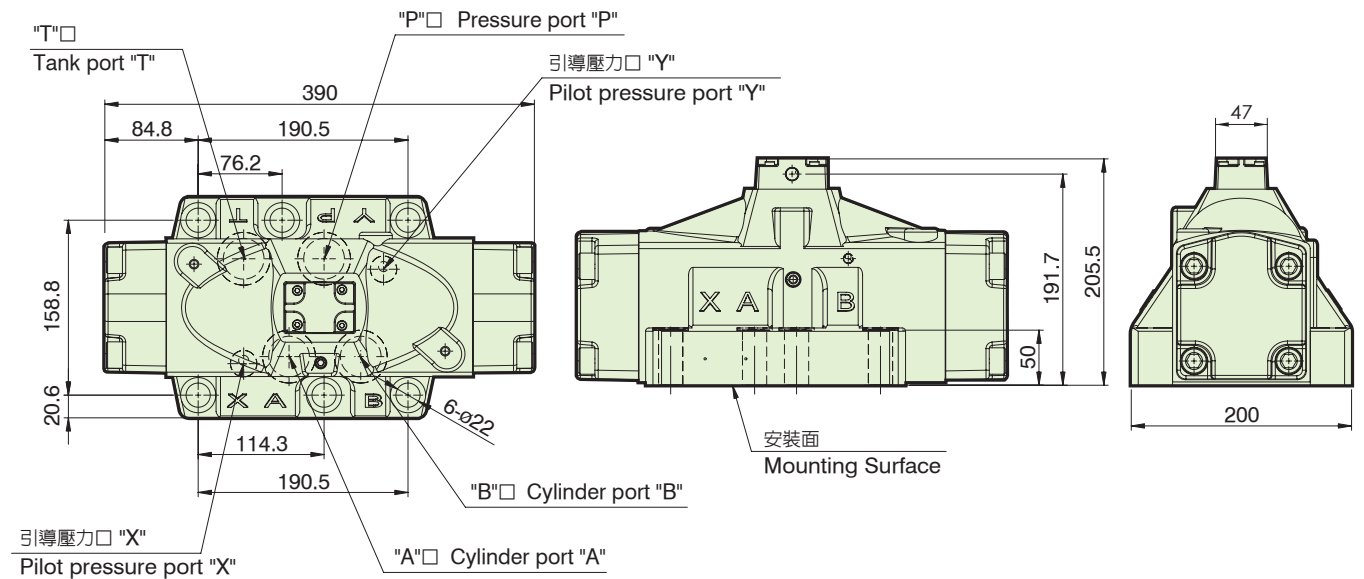
單位 Unit : mm

DHG-06



單位 Unit : mm

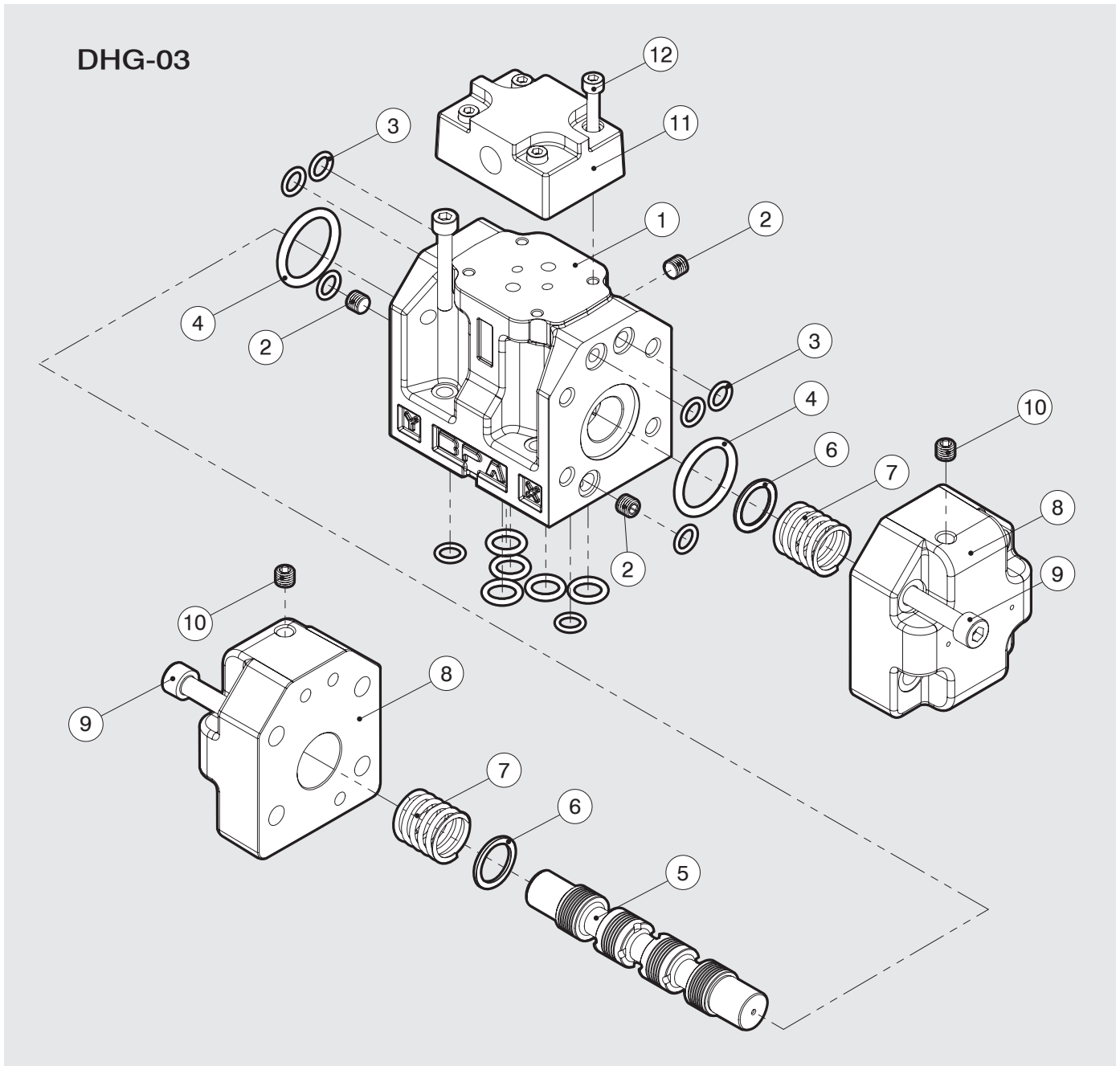
DHG-10



單位 Unit : mm

方向控制閥
Directional Control Valve (Pilot operated directional valves)
引導方向閥

爆炸圖 How to order for a complete assembled valve

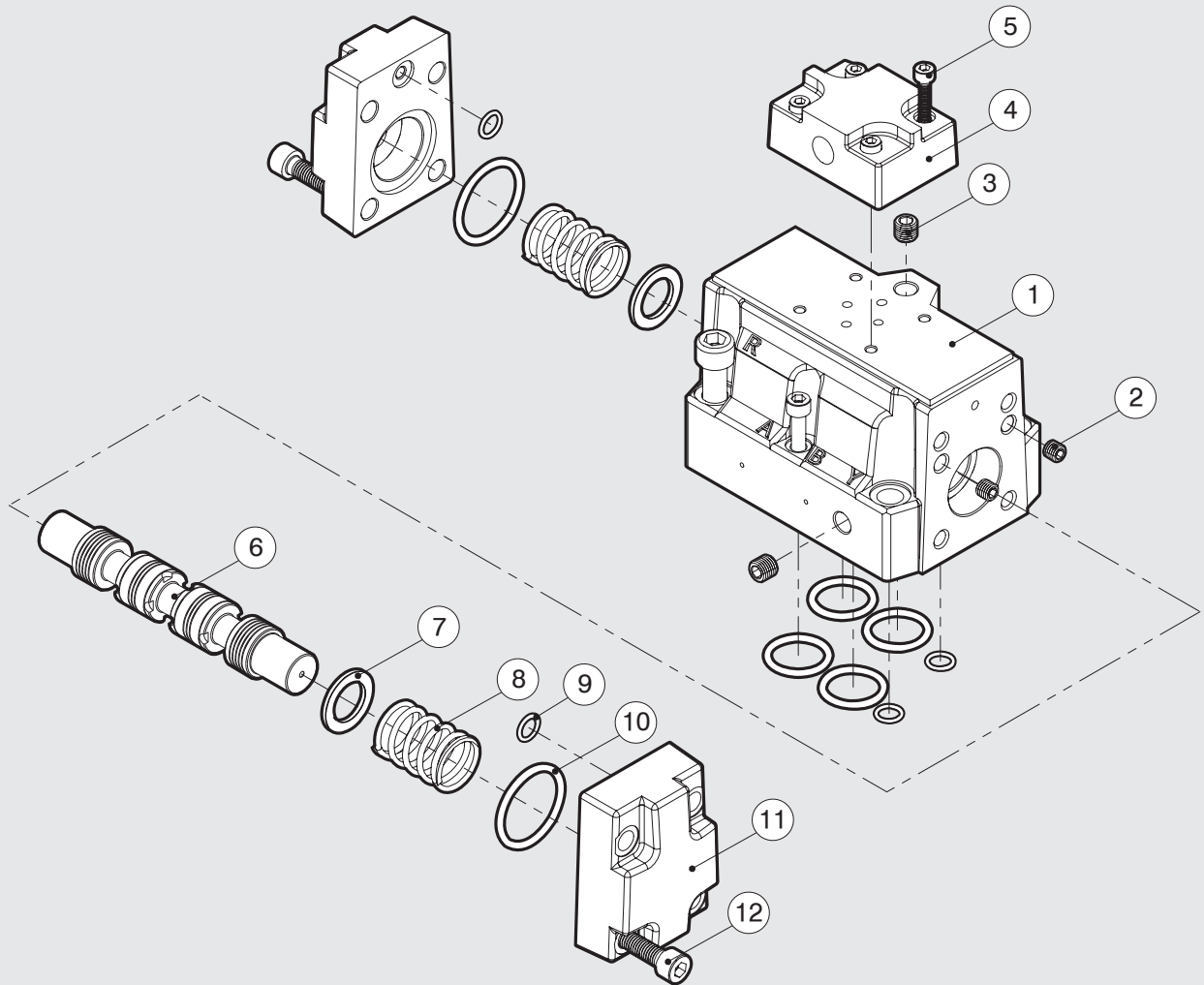


方向控制閥 引導方向閥
Directional Control Valve (Pilot operated directional valves)

項次編號 No.	品名 Name of parts	數量 Q	項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1	7	彈簧 Spring	2
2	PT 1/16	3	8	閥蓋 Cover	2
3	JIS B 2401-1B-P9	10	9	M8 x 35L	8
4	JIS B 2401-1B-P28	2	10	PT 1/16	2
5	心軸 Spool	1	11	上蓋 Cover	1
6	墊片 Washer	2	12	M5 x 25L	4

爆炸圖 How to order for a complete assembled valve

DHG-04



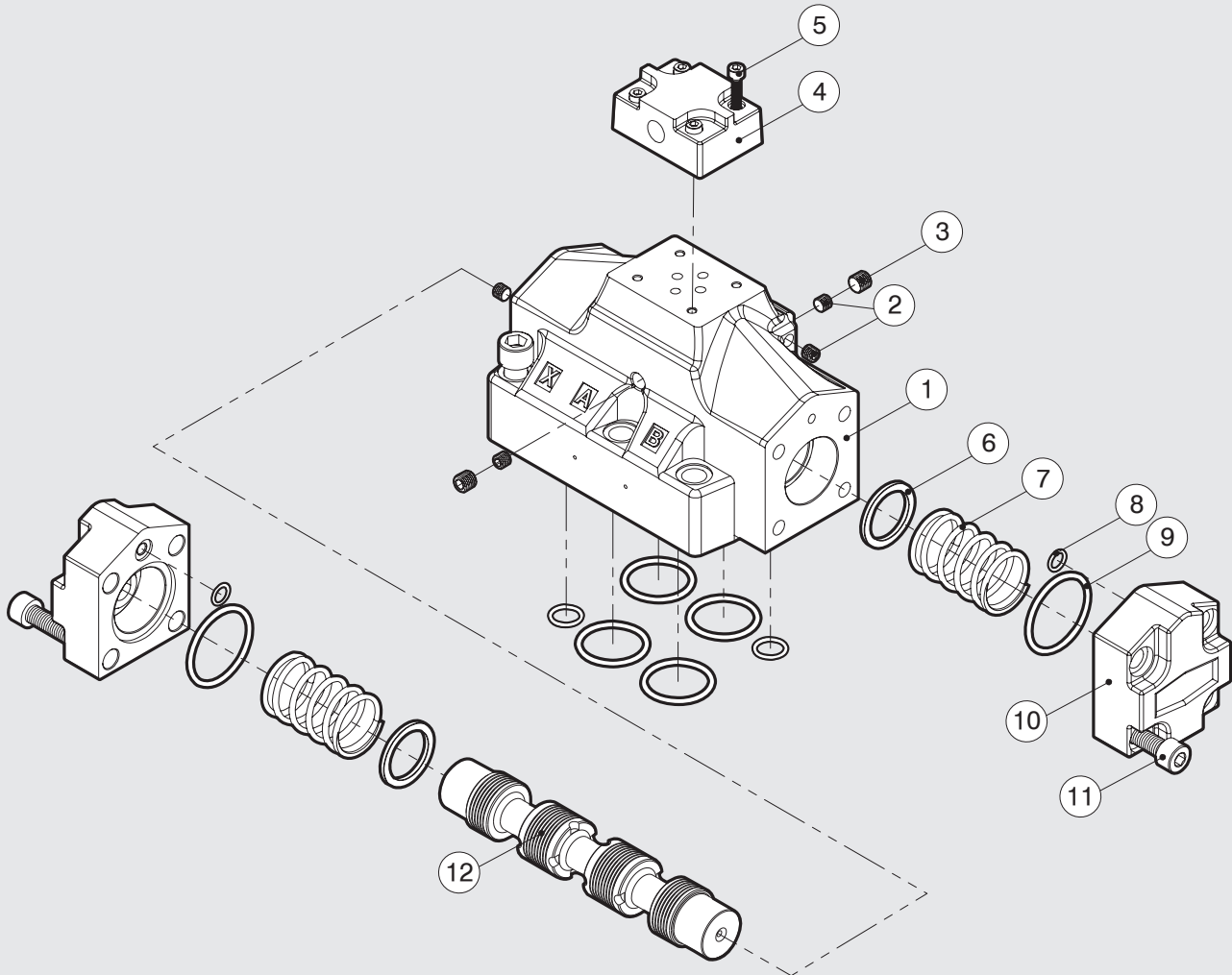
方向控制閥 引導方向閥
 Directional Control Valve (Pilot operated directional valves)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/16	2
3	PT 1/8	2
4	上蓋 Cover	1
5	M5 x 25L	4
6	心軸 Spool	1

項次編號 No.	品名 Name of parts	數量 Q
7	墊片 Washer	2
8	彈簧 Spring	2
9	JIS B 2401-1B-P9	2
10	JIS B 2401-1B-P32	2
11	閥蓋 Cover	2
12	M8 x 30L	8

爆炸圖 How to order for a complete assembled valve

DHG-06

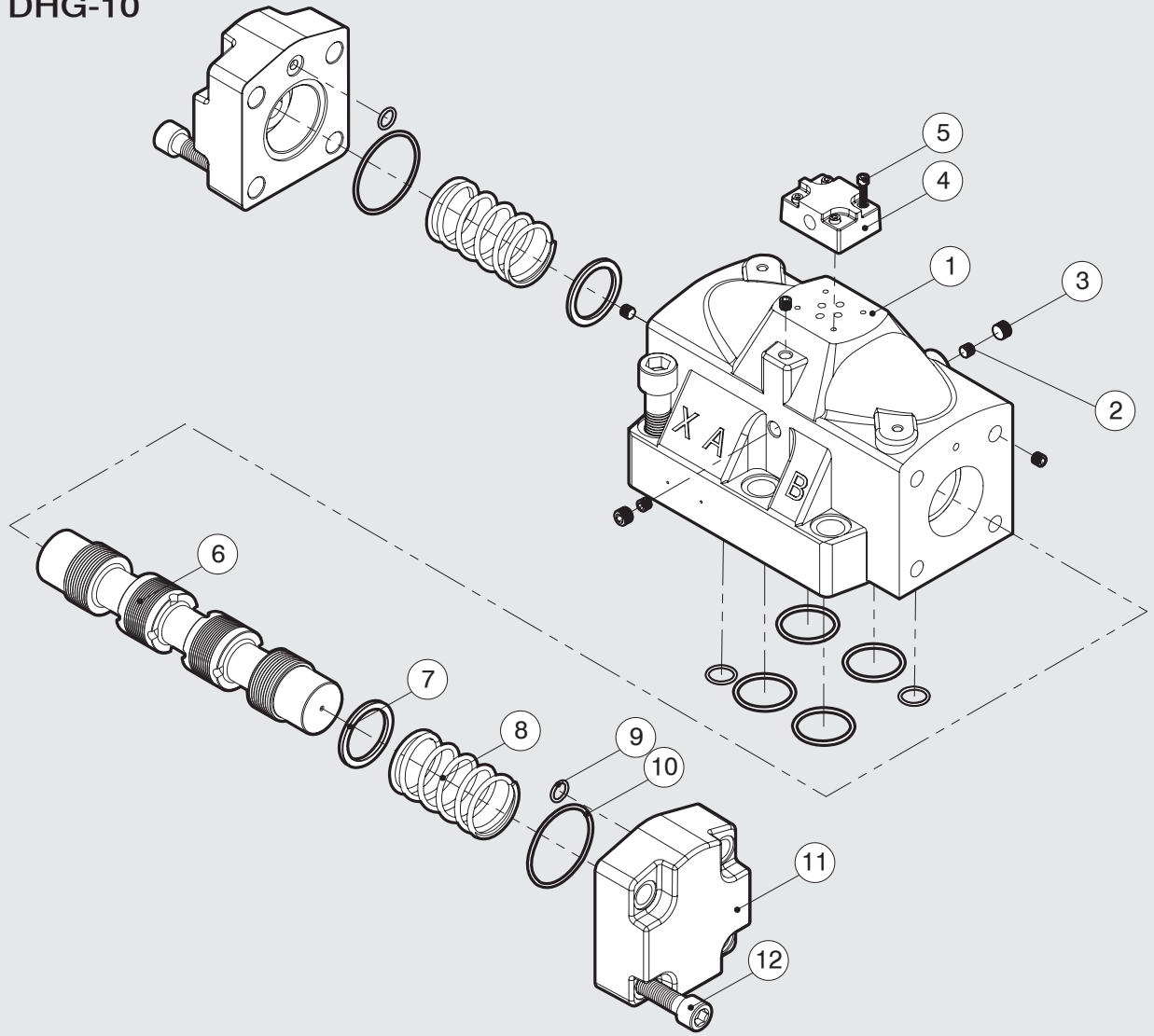


方向控制閥 引導方向閥
Directional Control Valve (Pilot operated directional valves)

項次編號 No.	品名 Name of parts	數量 Q	項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1	7	彈簧 Spring	2
2	PT 1/16	4	8	JIS B 2401-1B-P9	2
3	PT 1/8	2	9	JIS B 2401-1B-P40	2
4	上蓋 Cover	1	10	閥蓋 Cover	2
5	M5 x 25L	4	11	M10 x 35L	4
6	墊片 Washer	2	12	心軸 Spool	1

爆炸圖 How to order for a complete assembled valve

DHG-10



方向控制閥 引導方向閥
 Directional Control Valve (Pilot operated directional valves)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/8	3
3	PT 1/4	4
4	上蓋 Cover	1
5	M5 x 25L	4
6	心軸 Spool	1

項次編號 No.	品名 Name of parts	數量 Q
7	墊片 Washer	2
8	彈簧 Spring	2
9	JIS B 2401-1B-P14	2
10	JIS B 2401-1B-G65	2
11	閥蓋 Cover	2
12	M16 x 60L	8

- 本閥利用手動改變心軸的位置，從而切換油流方向。
- It changes the spool position manually, and switcheds the flow direction.



DMG-06

型號意義 How to order :

DM G 3 C 2 - 06
1 2 3 4 5 6

1	系列號	Series
2	板式連接	SUB-Plate mounting
3	閥位數：二位置/三位置	Number of valve position: 2 position / 3 position
4	彈簧定位 C:彈簧中位 / D:無彈簧定位型	Spring locking C: Spring centred / D: No-spring detented
5	心軸型式	Spool type
6	口徑代號	Valve size 06:3/4"

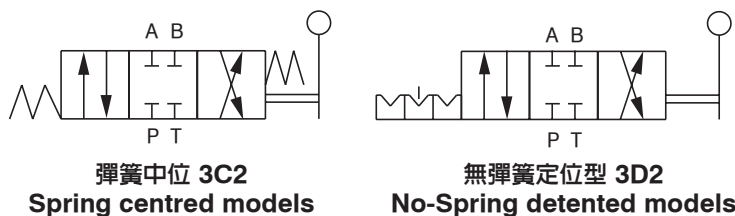
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最高使用壓力 Max. Operating Pressure (Kgf/cm ²)	最大容許背壓 Max. Back Pressure (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
手動換向閥 Manually operated directional valves	3/4	DMG	315	210	500	14.6

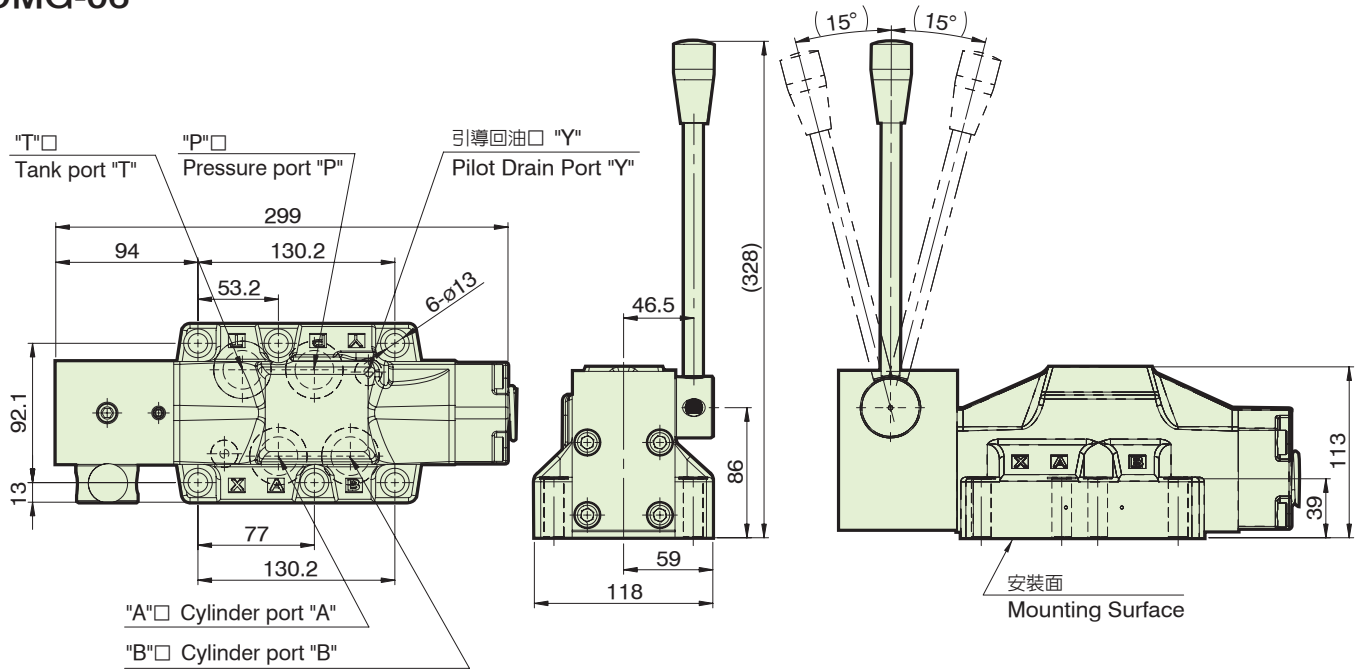
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
DMG-06	M12 x 55L 6 支 piece	JIS B 2401-1B-P14 2 條 piece JIS B 2401-1B-P32 4 條 piece

圖形符號 Graphic symbol :



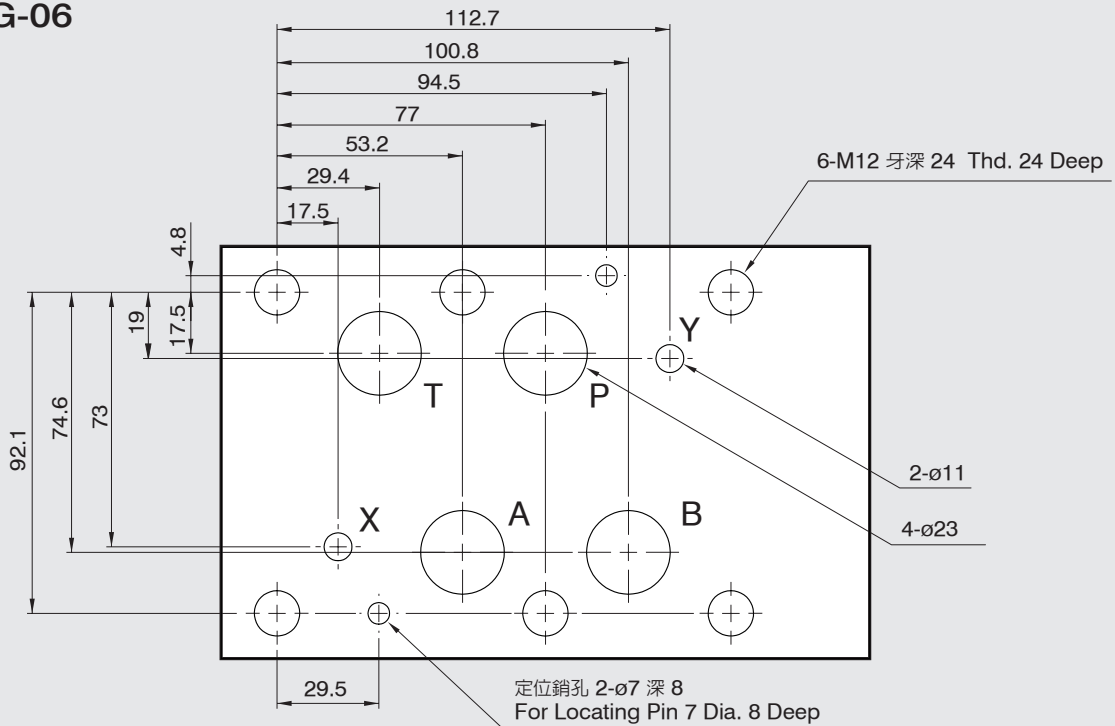
DMG-06



單位 Unit : mm

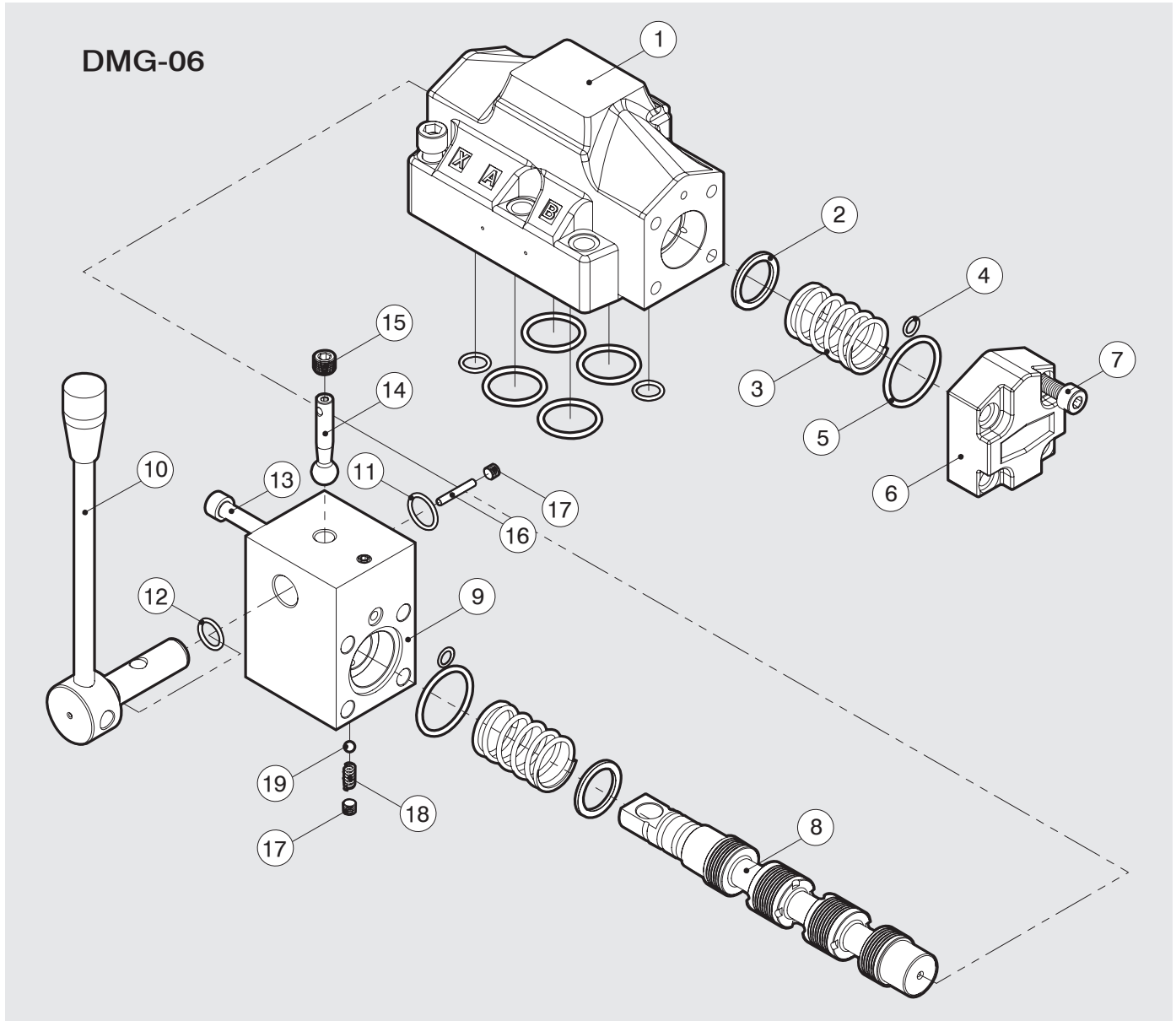
底板尺寸圖 Bottom plate dimensions

DMG-06



單位 Unit : mm

爆炸圖 How to order for a complete assembled valve



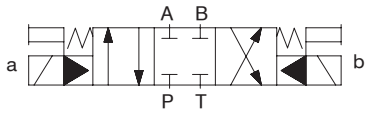
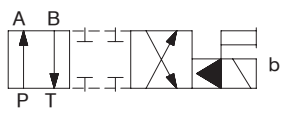
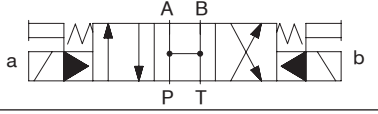
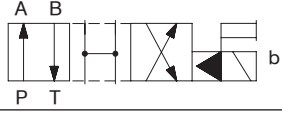
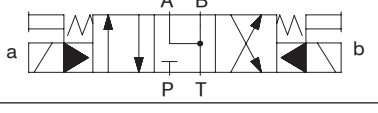
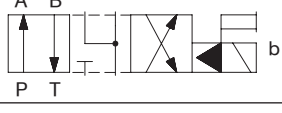
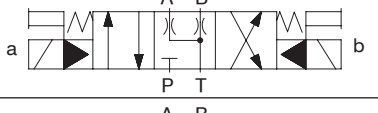
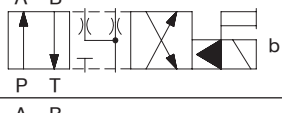
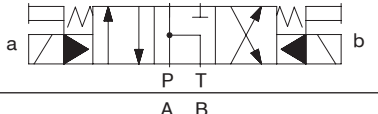
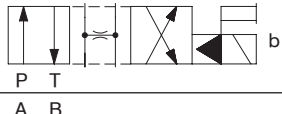
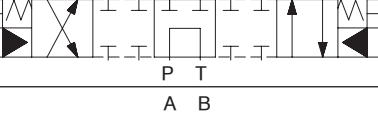
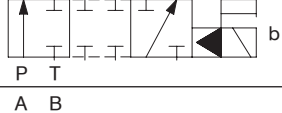
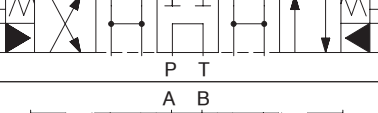
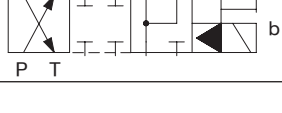
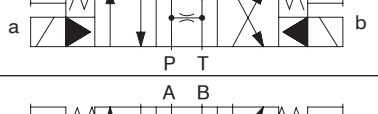
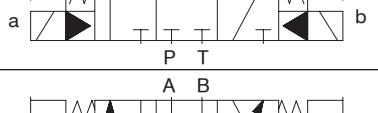
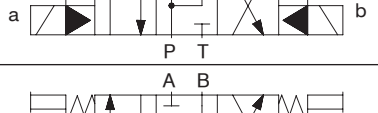
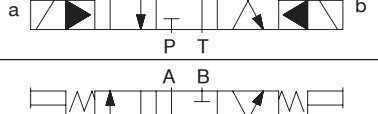
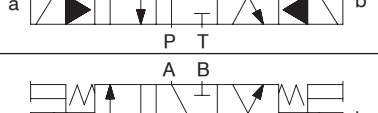
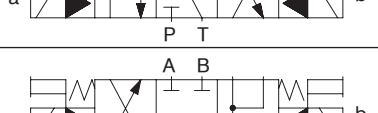
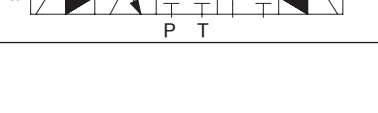
方向控制閥 手動換向閥
Directional Control Valve (Manually operated directional valves)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	墊片 Washer	2
3	彈簧 Spring	2
4	JIS B 2401-1B-P9	2
5	JIS B 2401-1B-P40	2
6	蓋子 Cover	1
7	M10 x 35L	4
8	心軸 Spool	1
9	切換蓋 Switch cover	1
10	切換把手 Handle	1

項次編號 No.	品名 Name of parts	數量 Q
11	JIS B 2401-1A-P20	1
12	JIS B 2401-1A-P16	1
13	M10 x 80L	4
14	調整連接桿 Adj. connecting rod	1
15	PT 1/4	1
16	鋼棒 Just stick	1
17	PT 1/16	2
18	彈簧 Spring	1
19	鋼珠 Steel ball	1

心軸型式油壓符號表 Spool type & graphic symbol table :

 方向控制閥 心軸型式油壓符號表
 Directional Control Valve (Spool type & graphic symbol table)

三位置 彈簧中立 3 Positions Spring Centered	油壓符號(標準組立) Graphic Symbol (Standard)	二位置 2 Positions	油壓符號(標準組立) Graphic Symbol (Standard)
3C2		2B2	
3C3		2B3	
3C4		2B4	
3C40		2B40	
3C5		2B7	
3C6		2B8	
3C60		2B29	
3C7			
3C8			
3C9			
3C10			
3C11			
3C12			
3C29			

心軸型式油壓符號表 Spool type & graphic symbol table :

三位置彈簧中立 3 Positions Spring Centered	油壓符號(標準組立) Graphic Symbol (Standard)	油壓符號(逆組立) Graphic Symbol (Reverse)
2B2A(L)		
2B3A(L)		
2B4A(L)		
2B40A(L)		
2B5A(L)		
2B6A(L)		
2B60A(L)		
2B7A(L)		
2B8A(L)		
2B9A(L)		
2B10A(L)		
2B11A(L)		
2B12A(L)		
2B29A(L)		

心軸型式油壓符號表 Spool type & graphic symbol table :

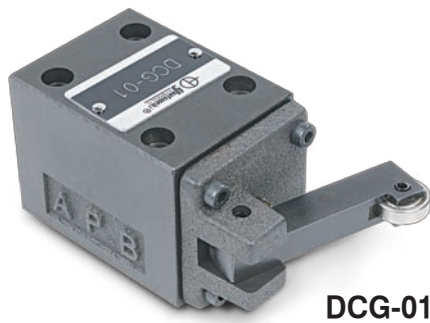
 方向控制閥 心軸型式油壓符號表
 Directional Control Valve (Spool type & graphic symbol table)

三位置彈簧中立 3 Positions Spring Centered	油壓符號(標準組立) Graphic Symbol (Standard)	油壓符號(逆組立) Graphic Symbol (Reverse)
2B2B(L)		
2B3B(L)		
2B4B(L)		
2B40B(L)		
2B5B(L)		
2B6B(L)		
2B60B(L)		
2B7B(L)		
2B8B(L)		
2B9B(L)		
2B10B(L)		
2B11B(L)		
2B12B(L)		
2B29B(L)		

方向控制閥 (機械式換向閥)

DIRECTIONAL CONTROL VALVE (Cam operated directional valves)

- DCG、DCT 系列主要用於操縱先導油路，利用凸輪行程來把閥軸壓下，從而切換油流方向。
- 2B8 型的回油口需做為泄油口使用，因此請直接與油箱連接 (容許背壓 3.5kgf/cm²)。
- DCG、DCT series is to control the pilot circuit, also use the cam stroke to push down axle of valve then to switch the flow direction.
- Type 2B8: Tank port is being drain port, thus to connect directly with tank (allow to have backpressure 3.5kgf/cm²).



DCG-01



DCT-01

方向控制閥
機械式換向閥
Directional Control Valve (Cam operated directional valves)

型號意義 How to order :

DC G - 01 - 2B2

1 2 3 4

1	系列號	Series
2	版式連接	SUB-Plate mounting
3	口徑代號	Valve size 1/8"
4	心軸代號：子閥型式	Spool type 2B2: Pilot valve type

DC T - 01 - 2B2

1 2 3 4

1	系列號	Series
2	管式連接	Threaded connections
3	口徑代號	Valve size 1/8"
4	心軸代號：子閥型式	Spool type 2B2: Pilot valve type

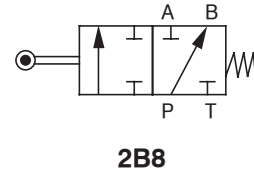
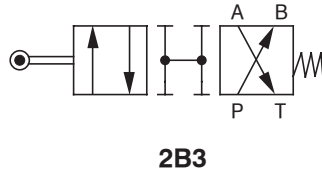
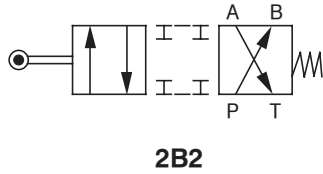
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最高使用壓力 Max. Pressure (Kgf/cm ²)	最大容許背壓 Max. Back Pressure (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
機械式換向閥 Cam operated directional valves	1/8	DCG-01	210	70	30	1.2
		DCT-01				1.2

附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring	
DCG-01	M5 x 45L	4 支 piece	JIS B 2401-1B-P9	4 條 piece
DCT-01	M5 x 45L	3 支 piece	-	-

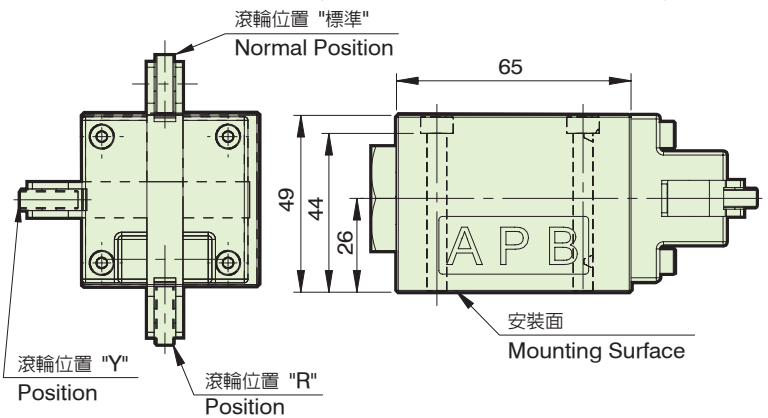
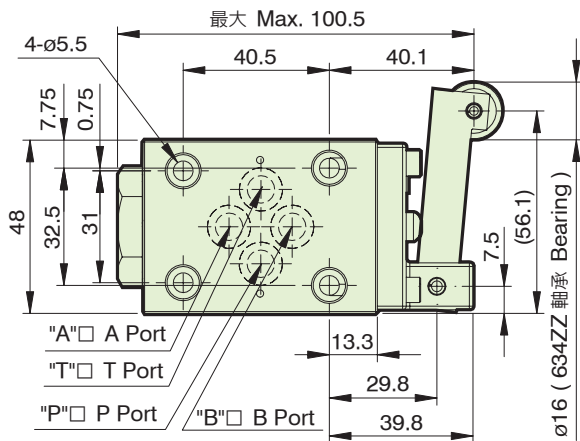
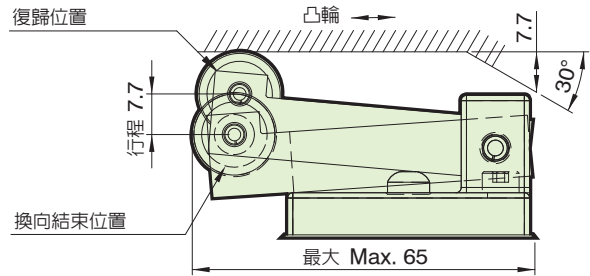
圖形符號 Graphic symbol :



DCG-01

凸輪與滾輪的動作

復歸位置

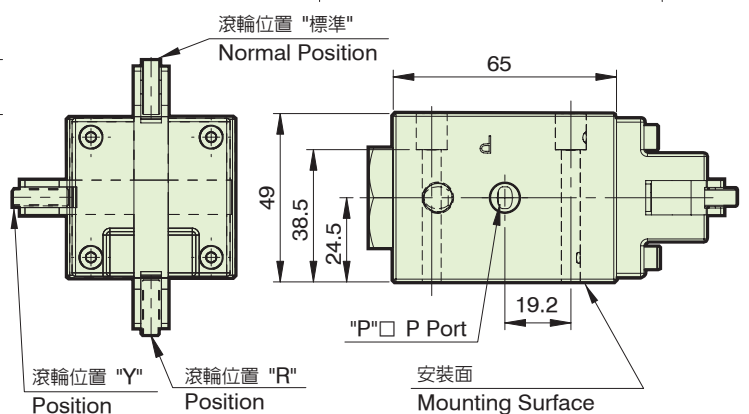
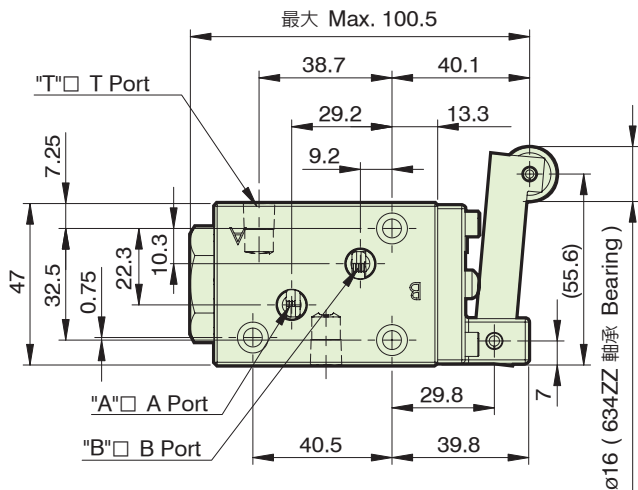
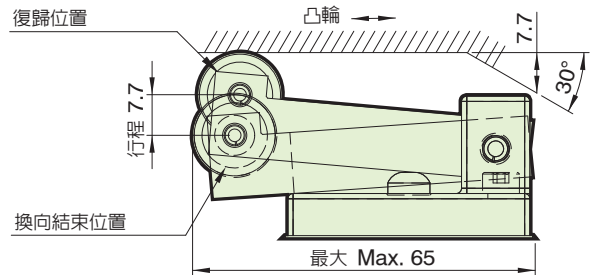


單位 Unit : mm

DCT-01

凸輪與滾輪的動作

復歸位置



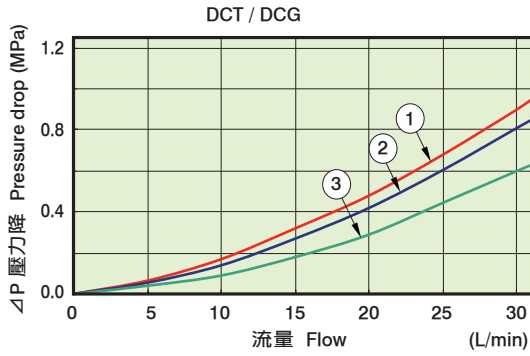
單位 Unit : mm

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s {cSt}
比重 Specific gravity of 0.850



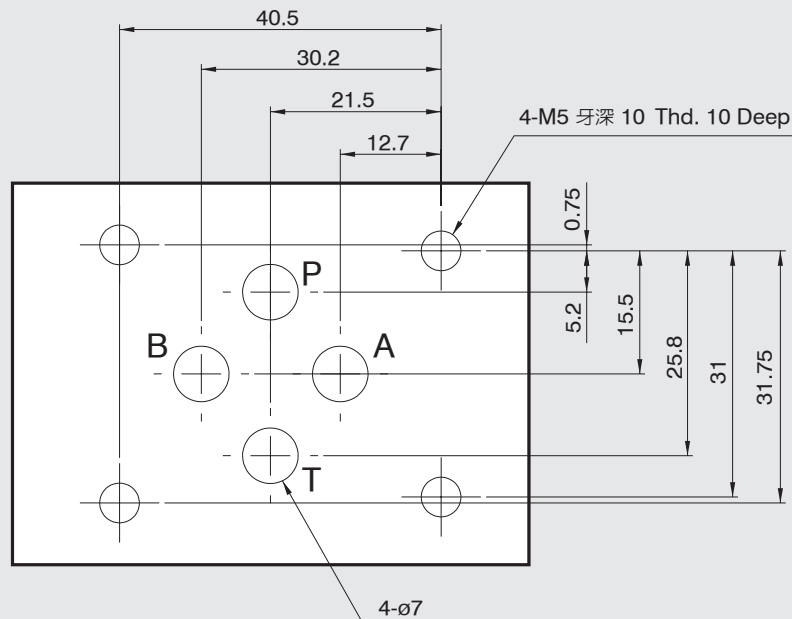
閥蕊形式 Spool type	壓力降曲線型號 Pressure drop curve numbers A			
	P→A	B→T	P→B	A→T
DCT-01-2B2	①	①	②	①
DCG-01-2B2	②	②	③	③

■ 黏度係數表 Viscosity

黏度 Viscosity	mm ² /s {cSt}	15	20	30	40	50	60	70	80	90	100
	SSU	77	98	141	186	232	278	324	371	471	464
係數 Coefficient		0.81	0.87	0.96	1.03	1.09	1.14	1.19	1.23	1.27	1.3

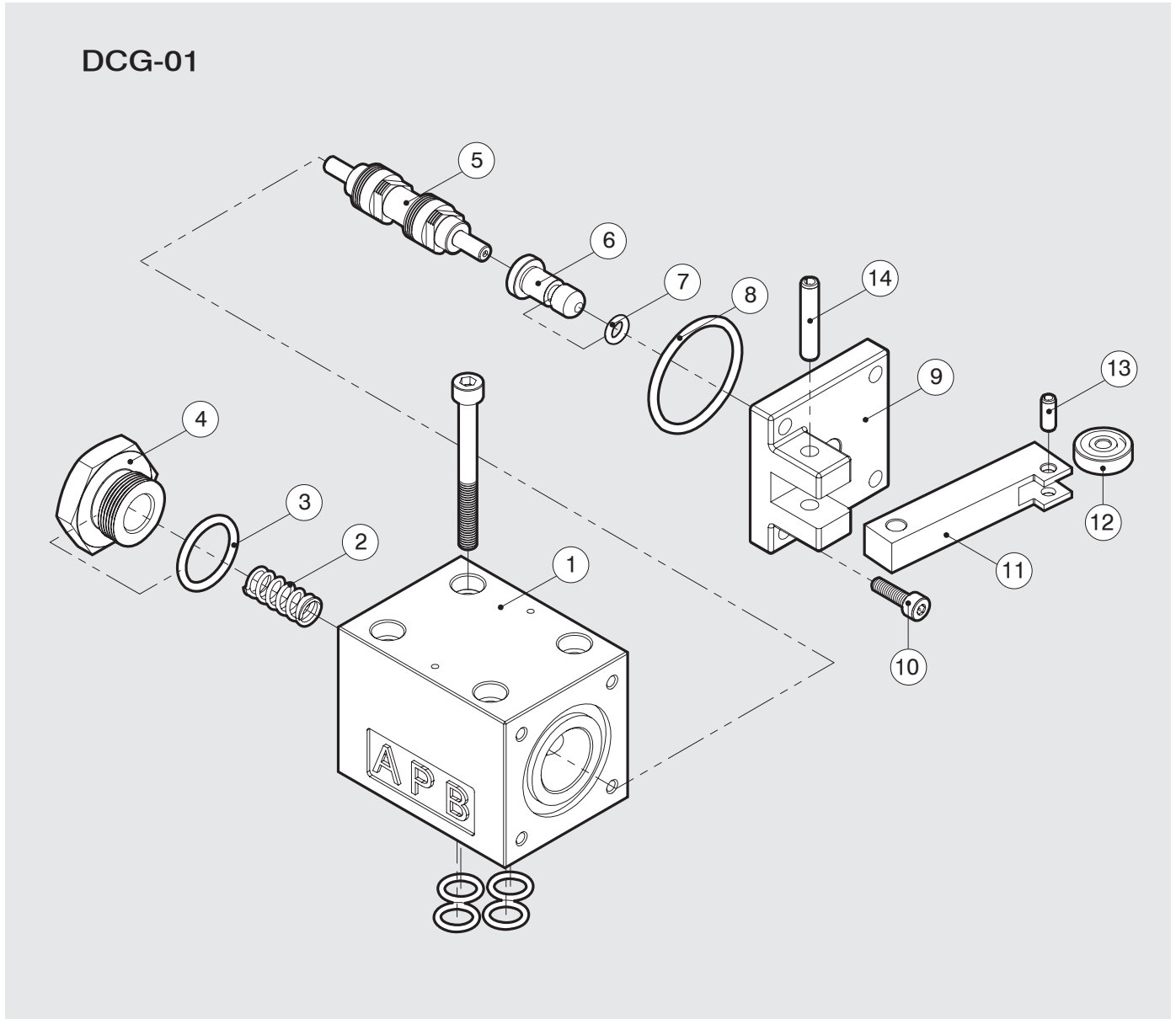
底板尺寸圖 Bottom plate dimensions

DCG-01 (DSHGM-01)



單位 Unit : mm

爆炸圖 How to order for a complete assembled valve



方向控制閥
機械式換向閥
Directional Control Valve (Cam operated directional valves)

項次編號 No.	品名 Name of parts	數量 Q	項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1	8	2-123	1
2	彈簧 Spring	1	9	閥蓋 Cover	1
3	JIS B 2401-1A-P18	1	10	M4 x 14L	4
4	螺母 Nut	1	11	切換壓板 Switch plate	1
5	心軸 Spool	1	12	軸承 Bearing	1
6	推桿 Push rod	1	13	彈簧銷 Pin 4 x 10	1
7	JIS B 2401-1A-P5	1	14	彈簧銷 Pin 5 x 25	1

方向控制閥 (止回閥) DIRECTIONAL CONTROL VALVE (Check valves)

- CRG 系列止回閥只允許單方向之油液流通。反方向則無法流通。規格表中所列之開啓壓力，表示當油流達到此壓力時，閥芯會開啓，讓油液流通。

- Check valve CRG series is only allowed one-way flow. Not allow for reversion. The cracking pressure listed on table means when flow get the point of pressure, spool will open to make flow go through.



CRG-03. 06. 10



CRG-03. 06. 10-※-50

型號意義 How to order :

CR G - 03 - 5 - 50

1 2 3 4 5

1 系列號	Series
2 版式連接	SUB-Plate mounting
3 口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
4 開啓壓力	Cracking pressure Kgf/cm ²
5 ISO 尺寸	Design number (ISO)

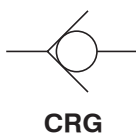
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	開啓壓力 Cracking pressure (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
止回閥 Check valves	3/8	CRG-03	05: 0.5Kg 30: 3Kg 50: 5Kg	30	1.7
	3/4	CRG-06		80	3.9
	1-1/4	CRG-10		200	7.7
	3/8	CRG-03-5-50		30	2
	3/4	CRG-06-5-50		80	3.4
	1-1/4	CRG-10-5-50		200	6

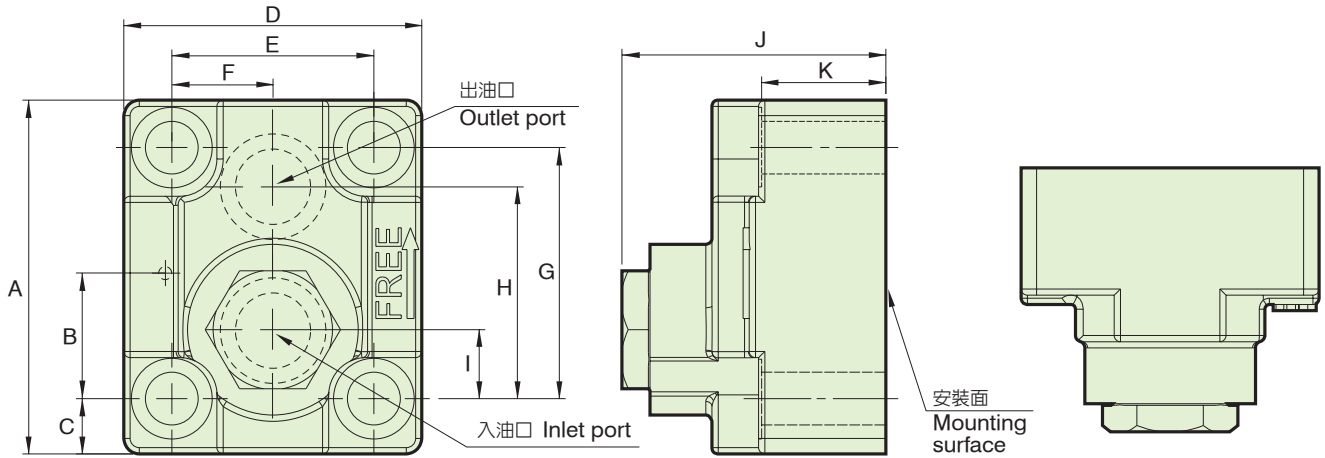
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts		O 型環 O-Ring	
CRG-03	M10 x 50L	4 支 piece	JIS B 2401-1B-P22A	2 條 piece
CRG-06	M16 x 55L	4 支 piece	JIS B 2401-1B-P29	2 條 piece
CRG-10	M20 x 70L	4 支 piece	JIS B 2401-1B-P36	2 條 piece
CRG-03-※-50	M10 x 45L	4 支 piece	JIS B 2401-1B-P18	2 條 piece
CRG-06-※-50	M10 x 50L	4 支 piece	JIS B 2401-1B-P29	2 條 piece
CRG-10-※-50	M10 x 55L	6 支 piece	JIS B 2401-1B-P36	2 條 piece

圖形符號 Graphic symbol :

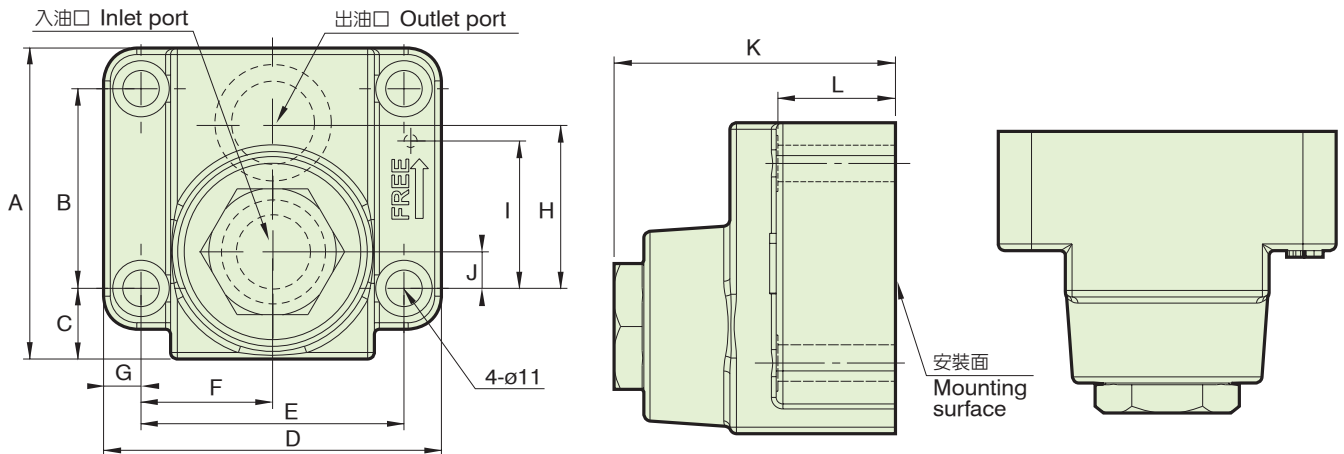


CRG-03.06.10



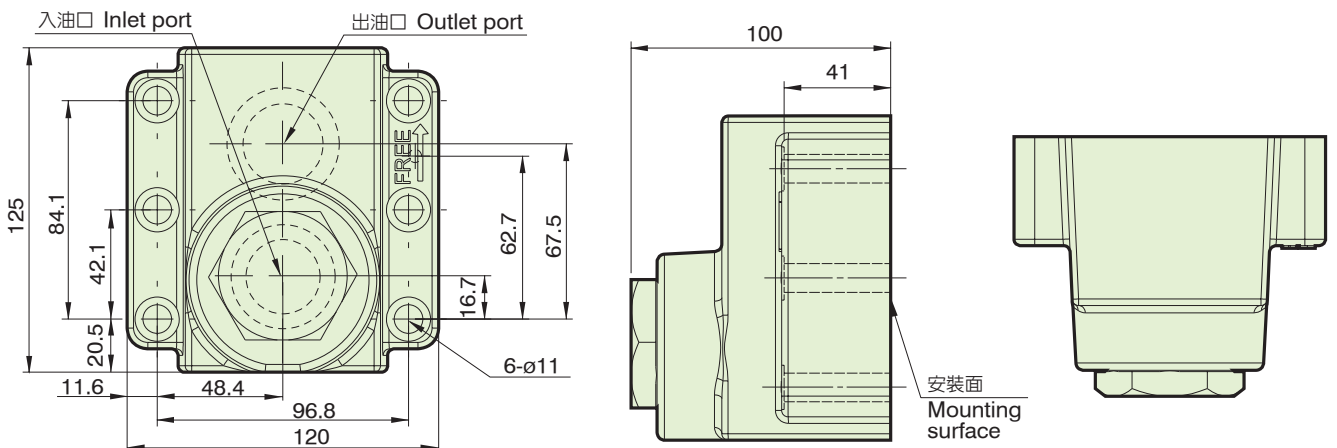
型號 Model	A	B	C	D	E	F	G	H	I	J	K		
CRG-03	80	30.1	10	68	47.6	23.8	60	47.6	12.7	65.5	35		
CRG-06	114	40.5	17.8	96	65.1	32.6	80.9	68.2	22.2	85	40		
CRG-10	131	46	19.5	129	92.1	46.1	92.1	71.4	20.1	105	51		

CRG-03.06-※-50



型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	
CRG-03-※-50	73	42.9	18	89	66.7	33.4	11.2	35.7	31.8	7	68	33	
CRG-06-※-50	94	60.3	21.5	102	79.4	39.7	11.3	49.2	44.5	11.1	85	35	

CRG-10-※-50



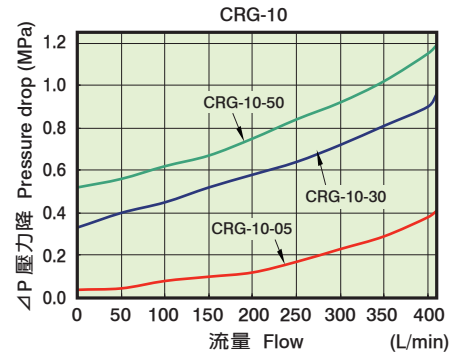
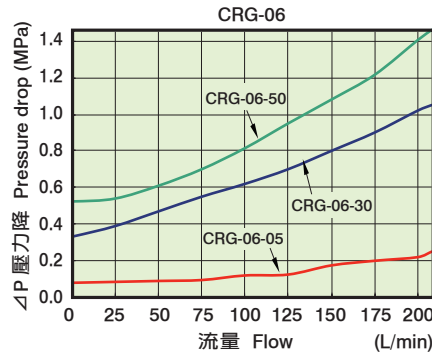
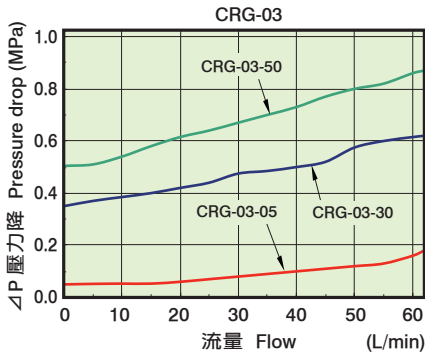
單位 Unit : mm

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

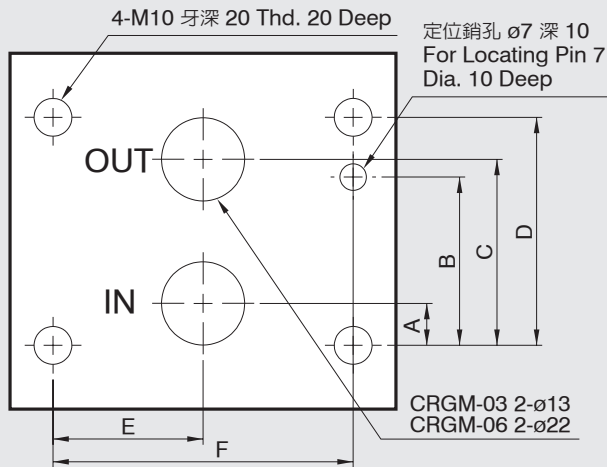
The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 30mm²/s {cSt}



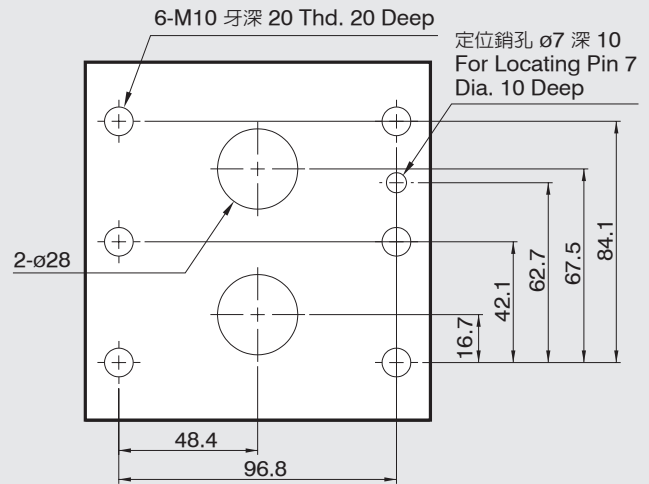
方向控制閥 止回閥
Directional Control Valve (Check valves)

底板尺寸圖 Bottom plate dimensions

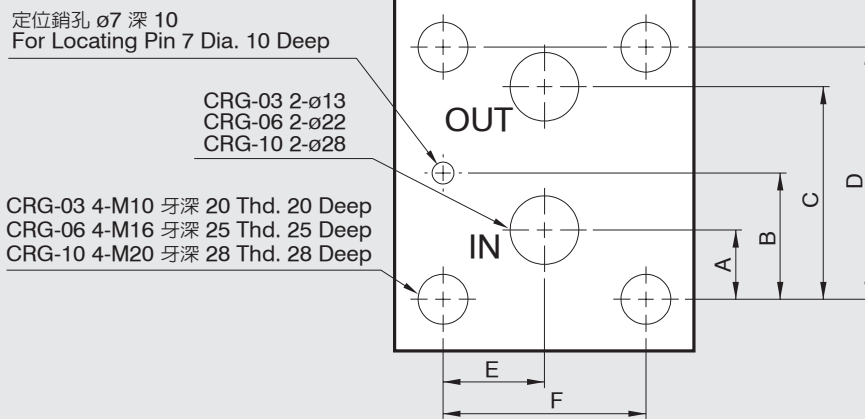


型號 Model	A	B	C	D	E	F
CRG-03-※-50 (CRGM-03)	7.1	31.8	35.7	42.9	33.3	66.7
CRG-06-※-50 (CRGM-06)	11.1	44.5	49.2	60.3	39.7	79.4

CRG-10-※-50 (CRGM-10)



單位 Unit : mm

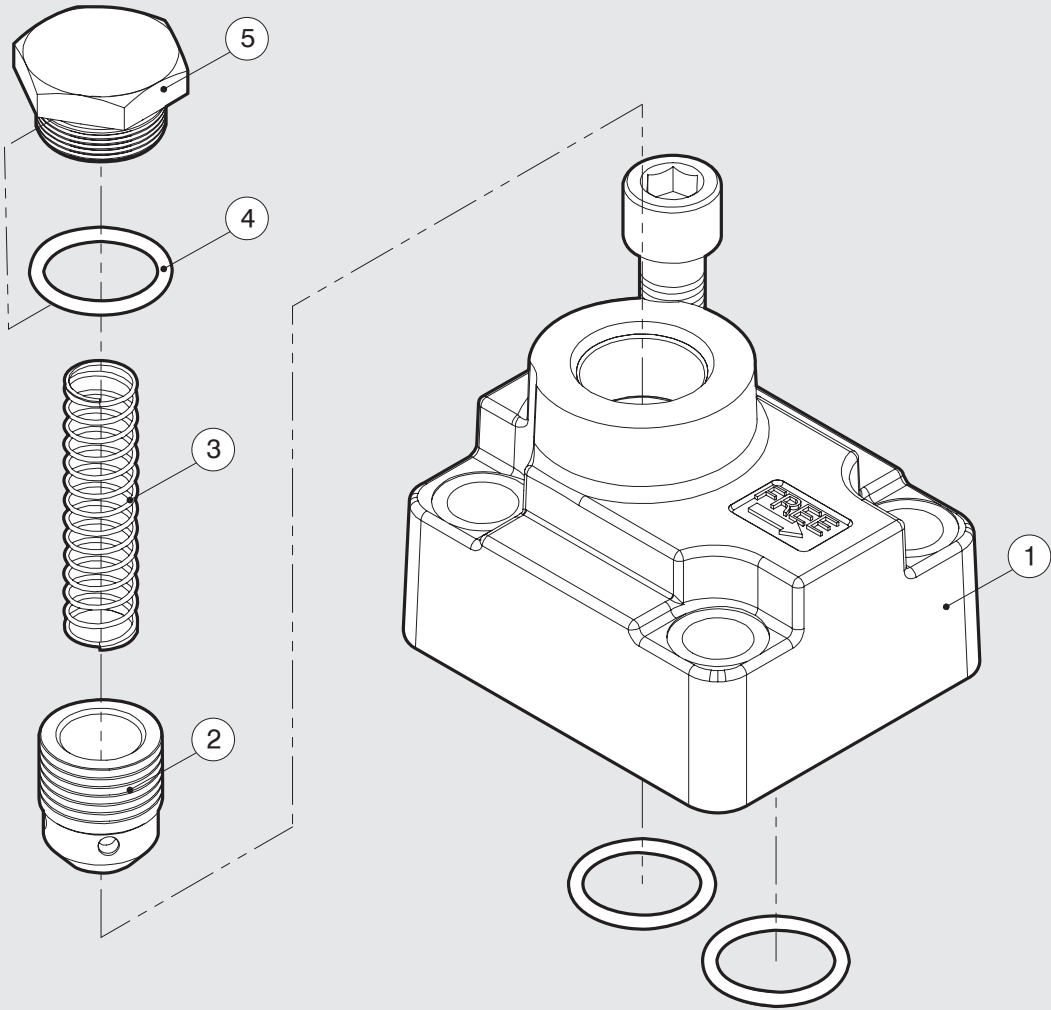


單位 Unit : mm

型號 Model	A	B	C	D	E	F					
CRG-03	12.7	30.1	47.6	60	23.8	47.6					
CRG-06	22.2	40.5	68.2	80.9	32.6	65.1					
CRG-10	20.1	46	71.4	92.1	46.1	92.1					

爆炸圖 How to order for a complete assembled valve

CRG-03.06.10
CRG-03.06.10-※-50



方向控制閥 止回閥
Directional Control Valve (Check valves)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	槍子閥 Check valve	1
3	彈簧 Spring	1
4	CRG-03 JIS B 2401-1A-P20	1
	CRG-06 JIS B 2401-1A-P28	1
	CRG-10 JIS B 2401-1A-P40	1
5	螺母 Nut	1

- CPDG 系列液控單向閥，通常只允許單方向之油液流通，反方向則無法流通。
- 當液控壓力到達時，油液可反方向流通。
- Pilot controlled check valve CPDG series is only allowed one-way flow normally, not allow for reversion.
- When pressure reaches, flow can be reversion.



CPDG-03. 06. 10

型號意義 How to order :

CP D - G - 03 - ※ - E

1 2 3 4 5 6

1	系列號	Series
2	無記號:單向閥 D:有泄壓閥的單向閥	No code: Pilot controlled check valve D: Decompression type pilot controlled check valve
3	板式連接	SUB-Plate mounting
4	口徑代號	Valve size 03:3/8", 06:3/4", 10:1-1/4"
5	開啓壓力	Cracking pressure Kgf/cm ²
6	無記號:內部回油 / E:外部回油	No code: Internal drain / E: External drain

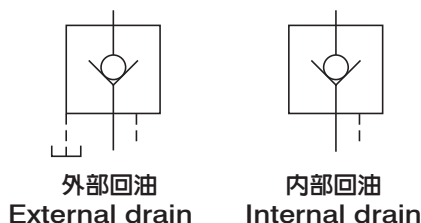
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	開啓壓力 Cracking pressure (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
液控單向閥 Pilot Controlled Check valves	3/8	CPDG-03	05: 0.5Kg	50	4.7
	3/4	CPDG-06	35: 3.5Kg	125	5.7
	1-1/4	CPDG-10	50: 5Kg	315	12.3

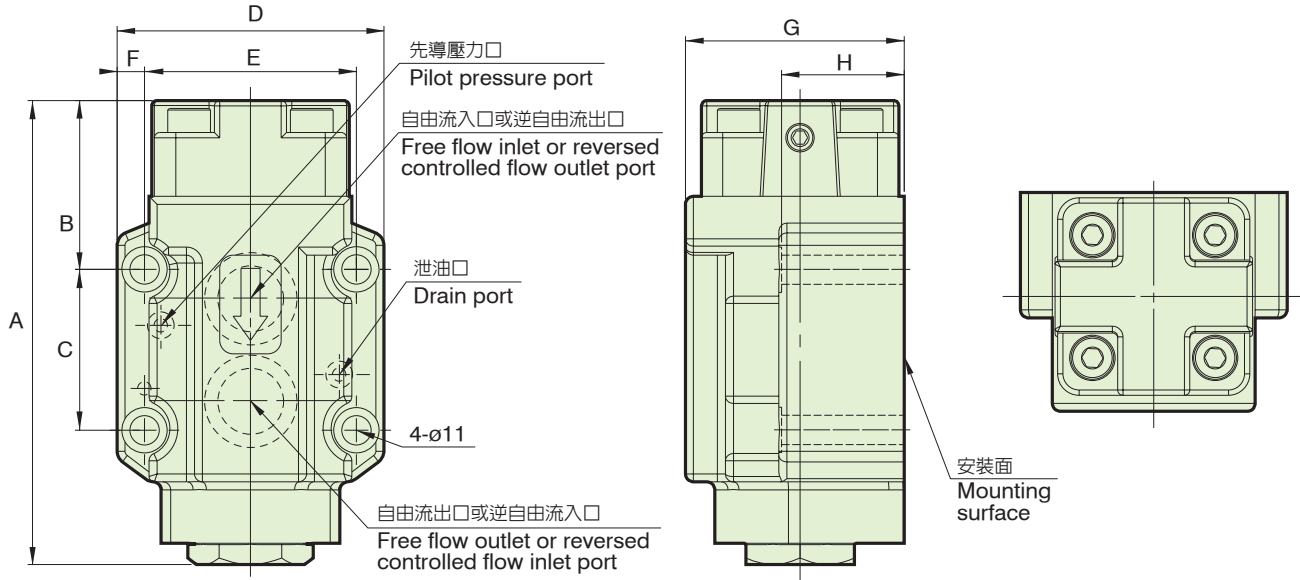
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring
CPDG-03	M10 x 70L 4 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P20 2 條 piece
CPDG-06	M10 x 50L 4 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P29 2 條 piece
CPDG-10	M10 x 85L 6 支 piece	JIS B 2401-1B-P9 2 條 piece JIS B 2401-1B-P38 2 條 piece

圖形符號 Graphic symbol :



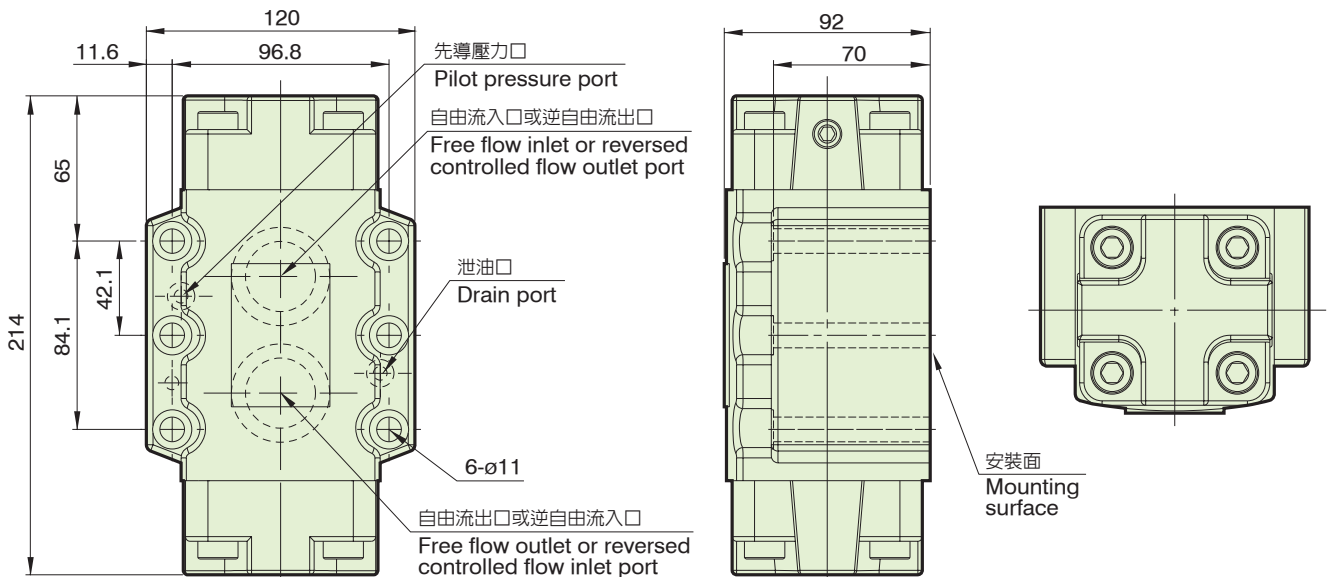
CPDG-03.06



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H					
CPDG-03	148	52.6	42.9	91	66.7	12.2	70	56					
CPDG-06	174	63.4	60.3	100	79.4	10.3	82	35					

CPDG-10



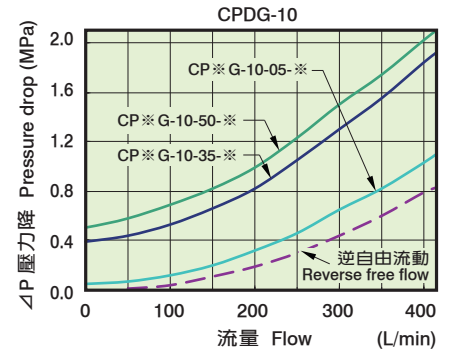
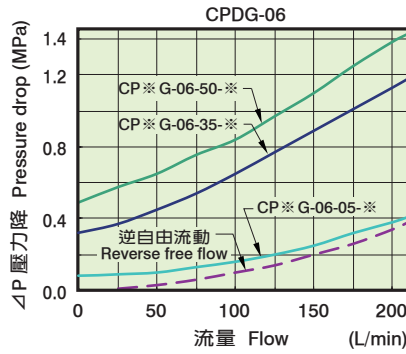
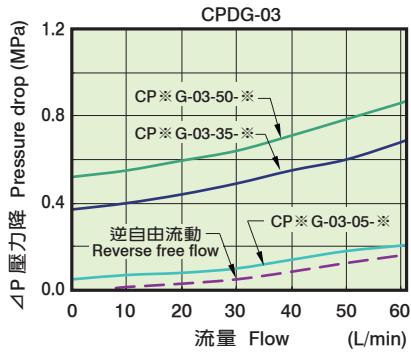
單位 Unit : mm

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

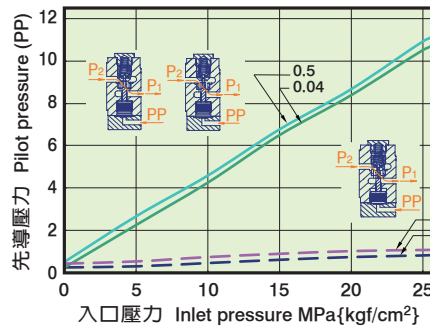
The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 30mm²/s {cSt}



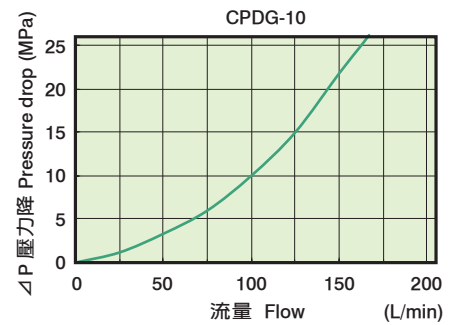
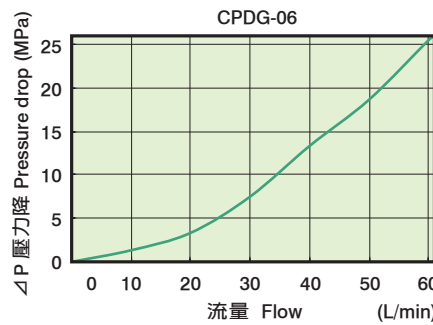
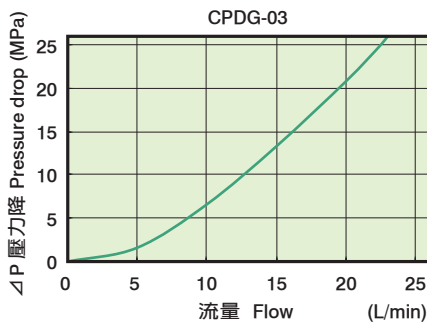
■ 最低先導壓力特性

Minimum pilot pressure characteristics

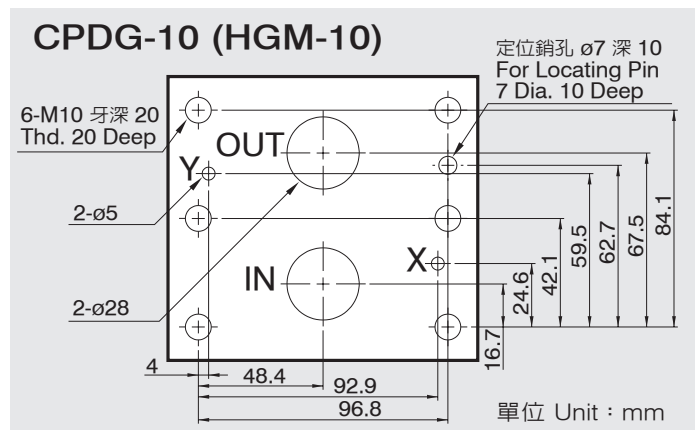
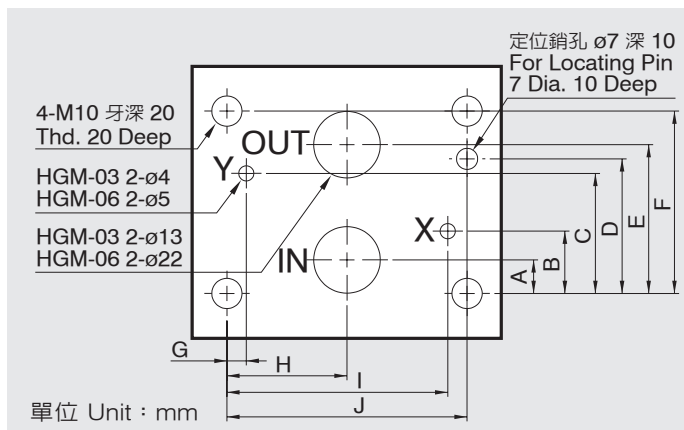


■ 第一段全開壓力降特性

Character of dropping pressure for First Level

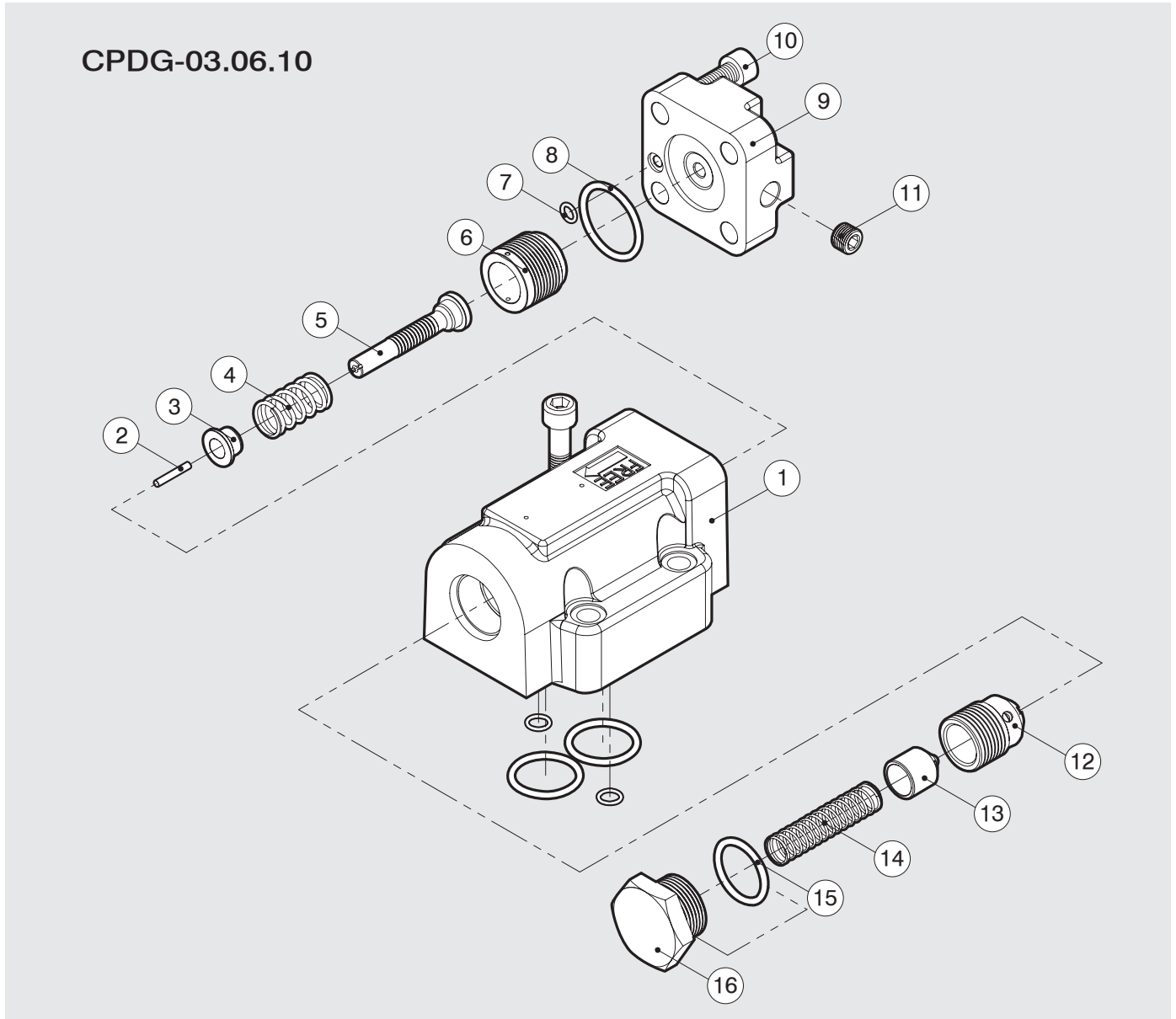


底板尺寸圖 Bottom plate dimensions



型號 Model	A	B	C	D	E	F	G	H	I	J			
CPDG-03 (HGM-03)	7.1	21.4	21.4	31.8	35.7	42.8	7.9	33.3	58.7	66.7			
CPDG-06 (HGM-06)	11.1	20.6	39.7	44.5	49.2	60.3	6.4	39.7	73	79.4			

爆炸圖 How to order for a complete assembled valve



方向控制閥
液控單向閥
Directional Control Valve (Pilot controlled check valves)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	鋼棒 Just stick	1
3	墊片 Washer	1
4	彈簧 Spring	1
5	推桿 Push rod	1
6	活塞 Piston	1
7	CPDG-03 JIS B 2401-1B-P6	2
	CPDG-06 JIS B 2401-1B-P7	1
	CPDG-10 JIS B 2401-1B-P9	2
8	CPDG-03 JIS B 2401-1B-G25	2
	CPDG-06 JIS B 2401-1B-P34	1
	CPDG-10 JIS B 2401-1B-P44	2

項次編號 No.	品名 Name of parts	數量 Q
9	閥蓋 Cover	1
10	CPDG-03 M8 x 35L	8
	CPDG-06 M10 x 35L	4
	CPDG-10 M12 x 40L	8
11	PT 1/4	1
12	槍子閥 Check valve	1
13	球閥座 Check valve seat	1
14	彈簧 Spring	1
15	CPDG-06 JIS B 2401-1A-P28	1
16	螺母 Nut	1

方向控制閥 (液控單向閥)

DIRECTIONAL CONTROL VALVE (Pilot controlled check valves)

- CPDT 系列液控單向閥，通常只允許單方向之油液流通，反方向則無法流通。
- 當液控壓力到達時，油液可反方向流通。
- Pilot controlled check valve CPDT series is only allowed one-way flow normally, not allow for reversion.
- When pressure reaches, flow can be reversion.



CPDT-03. 04. 06. 10



CPDF-10. 16

方向控制閥
液控單向閥
Directional Control Valve (Pilot controlled check valves)

型號意義 How to order :

CP D - T - 06 - ※ - E
1 2 3 4 5 6

1	系列號	Series
2	無記號:單向閥 D:有泄壓閥的單向閥	No code: Pilot controlled check valve D: Decompression type pilot controlled check valve
3	T:管式連接 / F:法蘭連接	T: Threaded connection / F: Flange connection
4	口徑代號	Valve size 04:1/2", 06:3/4", 10:1-1/4", 16:2"
5	開啓壓力	Cracking pressure Kgf/cm ²
6	無記號:內部回油 / E:外部回油	No code: Internal drain / E: External drain

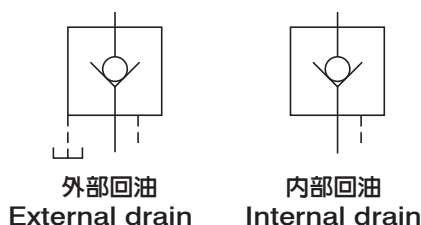
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	開啓壓力 Cracking pressure (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
液控單向閥 Pilot Controlled Check valves	1/2	CPDT-03 / 04	05: 0.5Kg	50	3
	3/4	CPDT-06		125	5.8
	1-1/4	CPDT-10	35: 3.5Kg	315	11.4
	1-1/4	CPDF-10	50: 5Kg	315	11.4
	2	CPDF-16		500	30.5

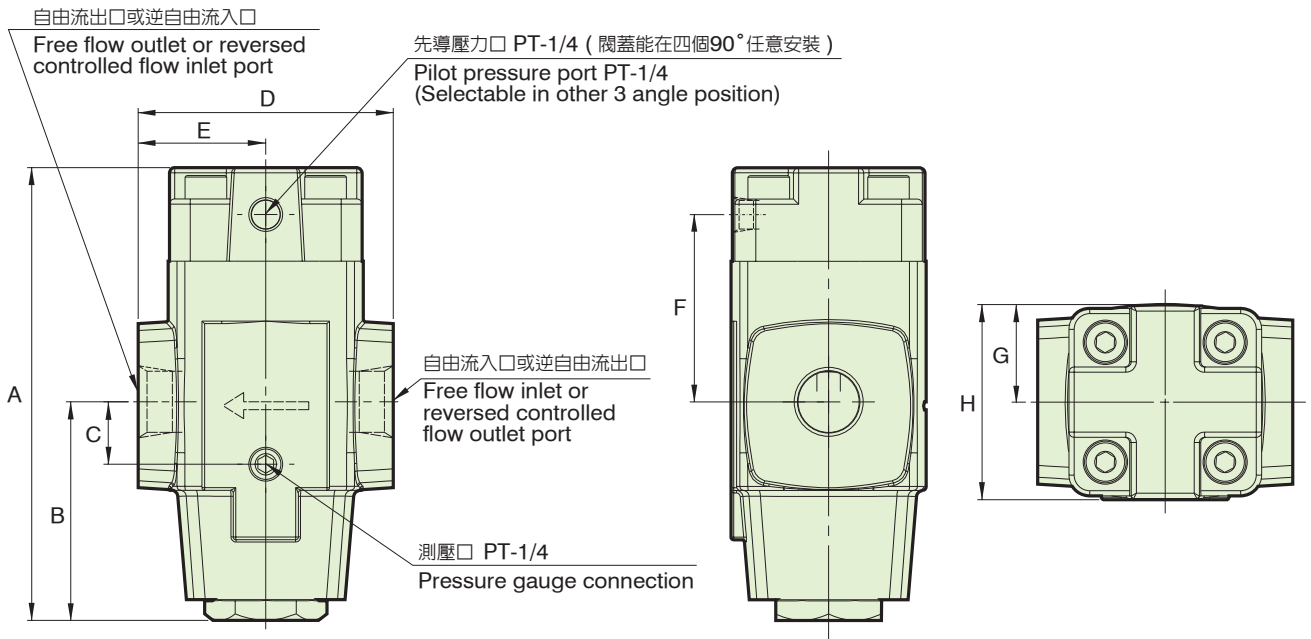
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring	法蘭 Flange
CPDF-16	M16 x 50L 8 支 piece	JIS B 2401-1B-G65 2 條 piece	2" 2 條 block

圖形符號 Graphic symbol :



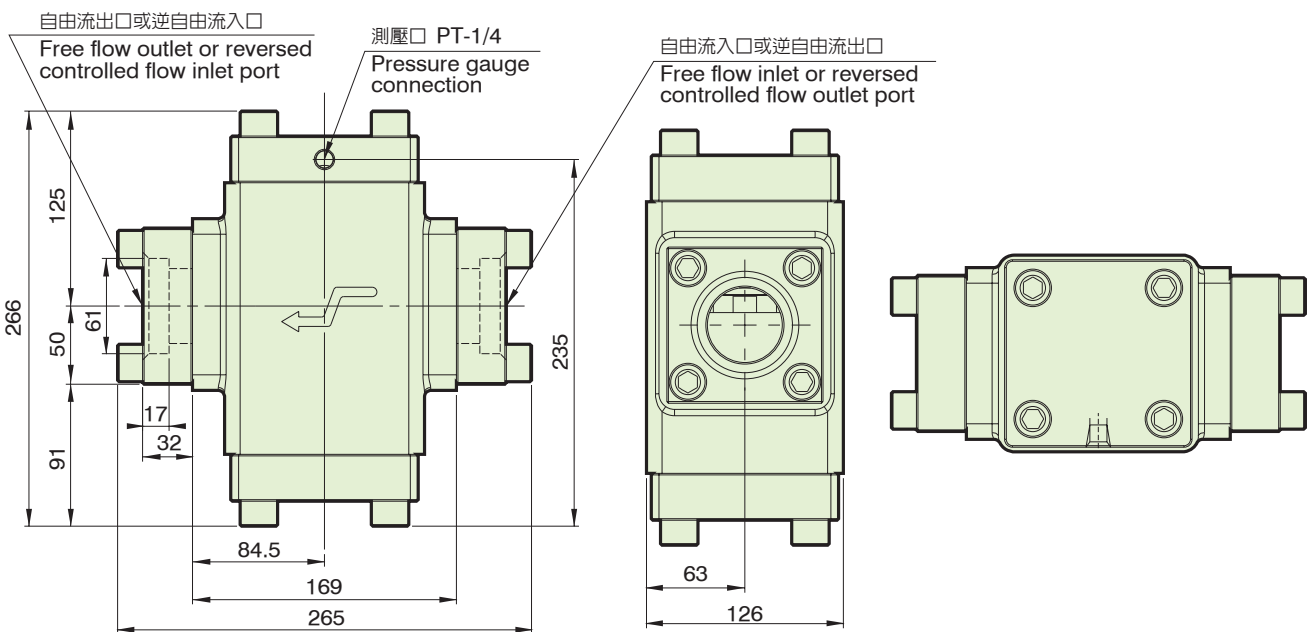
CPDT-03. 04.06.10



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H					
CPDT-03 / 04	148	74	19	80	40	59	62	31					
CPDT-06	174	84	24	98	49	72	75	37.5					
CPDT-10	200	90.5	22.5	140	70	92.5	92	46					

CPDF-16



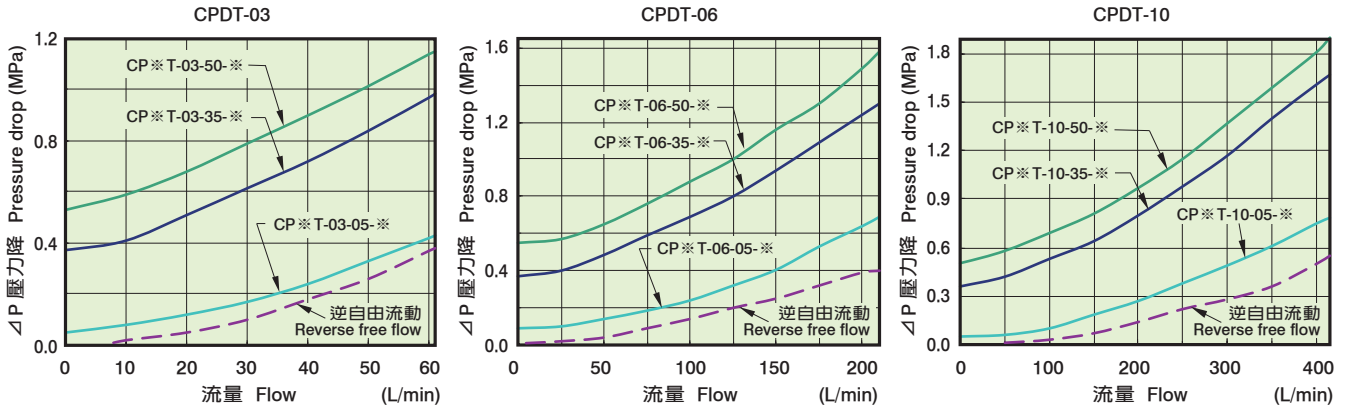
單位 Unit : mm

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

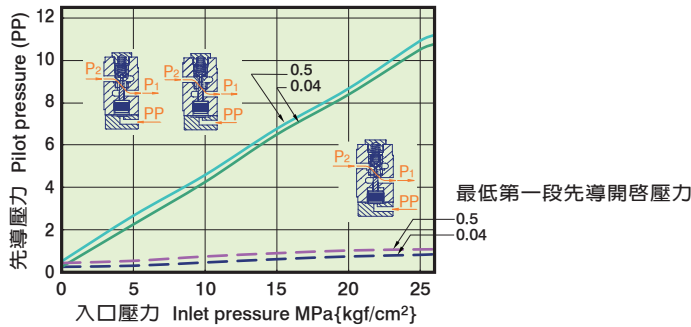
The characteristic curve chart of Flow vs. Pressure

使用油：黏度 Test fluid viscosity: 35mm²/s{cSt}



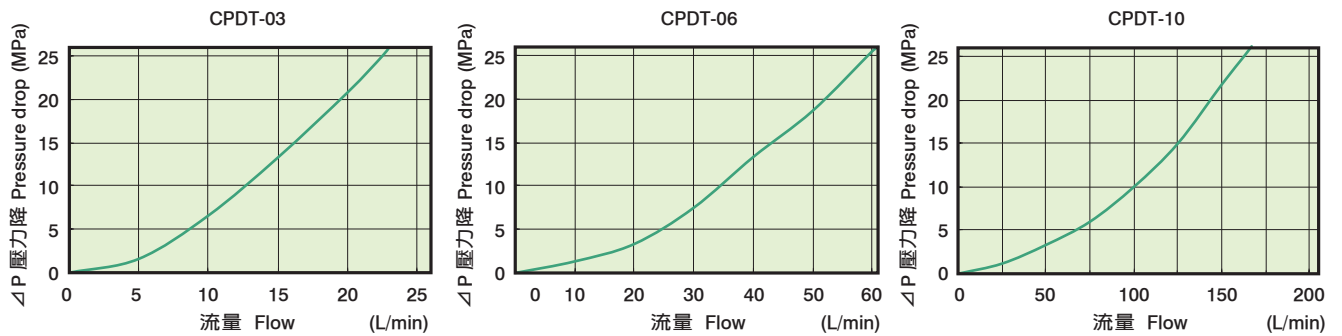
■ 最低先導壓力特性

Minimum pilot pressure characteristics

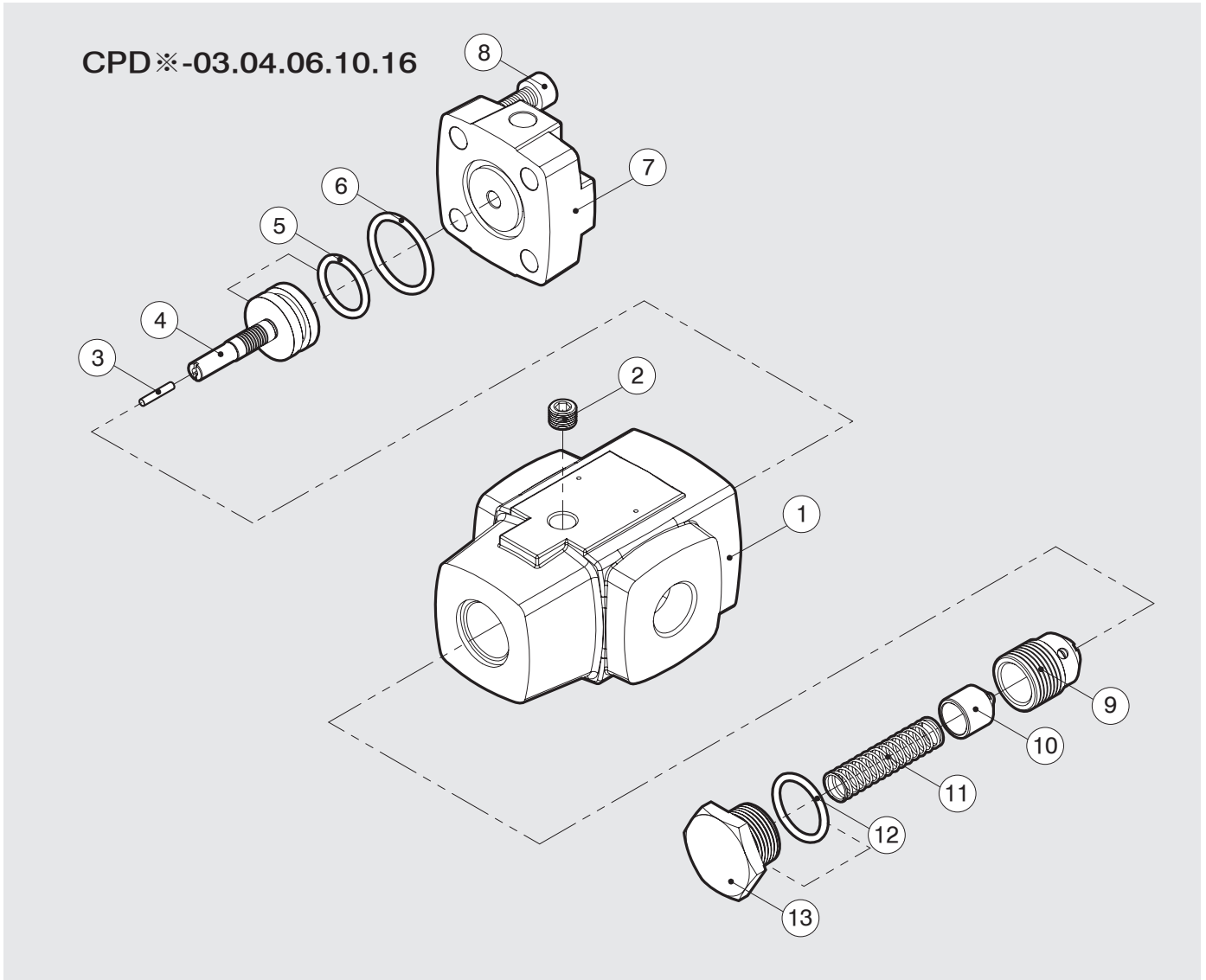


■ 第一段全開壓力降特性

Character of dropping pressure for First Level



爆炸圖 How to order for a complete assembled valve


 方向控制閥 液控單向閥
 Directional Control Valve (Pilot controlled check valves)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	PT 1/4	1
3	鋼棒 Just stick	1
4	推桿 Push rod	1
5	CPDT-03 JIS B 2401-1A-P18	1
	CPDT-04 JIS B 2401-1A-P18	1
	CPDT-06 JIS B 2401-1A-P25	1
	CPDT/F-10 JIS B 2401-1A-P34	1
	CPDF-16 JIS B 2401-1A-P48	1
6	CPDT-03 JIS B 2401-1B-G25	1
	CPDT-04 JIS B 2401-1B-G25	1
	CPDT-06 JIS B 2401-1B-P34	1
	CPDT/F-10 JIS B 2401-1B-P44	1
	CPDF-16 JIS B 2401-1B-G60	1
7	閥蓋 Cover	1

項次編號 No.	品名 Name of parts	數量 Q
8	CPDT-03 M8 x 35L	4
	CPDT-04 M8 x 35L	4
	CPDT-06 M10 x 35L	4
	CPDT/F-10 M12 x 40L	4
	CPDF-16 M16 x 50L	8
9	槍子閥 Check valve	1
10	球閥座 Check valve seat	1
11	彈簧 Spring	1
12	CPDT-03 JIS B 2401-1A-P22	1
	CPDT-04 JIS B 2401-1A-P22	1
	CPDT-06 JIS B 2401-1A-P28	1
	CPDT/F-10 JIS B 2401-1A-P40	1
	CPDF-16 JIS B 2401-1B-G60	1
13	螺母 Nut	1
	CPDF-16 閥蓋 Cover	1

- 滿油閥之功用是，作為液壓缸與油箱之間的排油閥用途。
- 在大型壓力機構的快進行程需從油箱向油缸吸油。在加壓時可防止油從油缸流入油箱。反向時油缸則會將油排至油箱內。
- To drain oil between cylinder and Tank is a function of prefill valves.
- During operation in a large pressure mechanism, it needs to suck oil from tank to hydraulic cylinder. While pressurizing, it prevents the oil flowing from hydraulic cylinder to tank. When reversion, hydraulic cylinder will make oil draining to tank



SG-16
SG-24
SG-32

型號意義 How to order :

SG - 24 - R

1 2 3

1 系列號	Series
2 口徑代號	Valve size 16:2", 24:3", 32:4"
3 無記號:180度 / 90: 90度	No code: 180° / 90: 90°

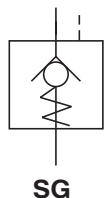
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最高使用 壓力 Max. Pressure (Kgf/cm ²)	額定流量 Rated Flow (ℓ/min)		使用流量 Operating Flow (ℓ/min)		啓流壓力 Max. Flow (Kgf/cm ²)	重量 Weight (Kg)
				真空自吸 Vacuumed suction	PL使用時 Using PL	真空自吸 Vacuumed suction	PL使用時 Using PL		
滿油閥 Pre-fill valves	2	SG-16	250	260	400	260±100M	400±100M	0.12	31.5
	3	SG-24	250	600	900	600±150M	900±150M	0.14	52
	3	SG-24-90	250	600	900	600±150M	900±150M	0.14	53.3
	4	SG-32	250	1100	1600	1110±300M	1600±300M	0.16	100
	4	SG-32-90	250	1100	1600	1110±300M	1600±300M	0.16	108

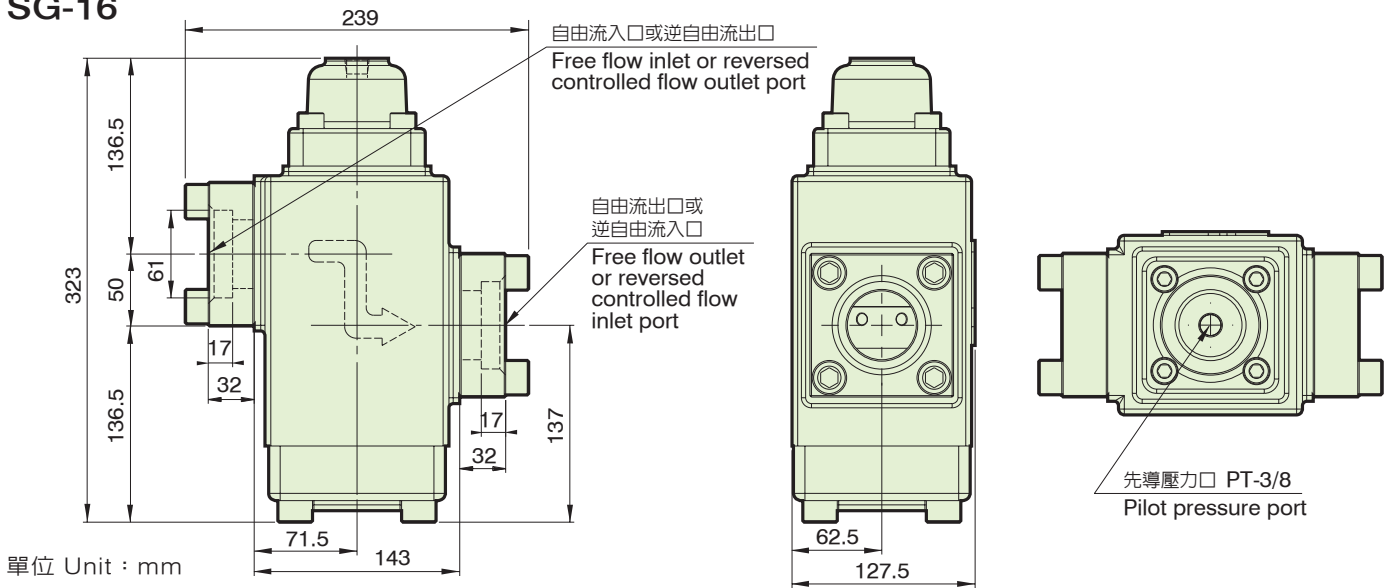
附件 Attachment :

型號 Model	安裝螺絲 Mounting bolts	O 型環 O-Ring	法蘭 Flange
SG-16	M16 x 50L 8 支 piece	JIS B 2401-1B-G60 2 條 piece	2" 2 塊 block
SG-24	M16 x 60L 4 支 piece	JIS B 2401-1B-G85 2 條 piece	2-1/2" 1 塊 block
	M20 x 60L 4 支 piece	JIS B 2401-1B-G85 2 條 piece	3" 1 塊 block
SG-32	M16 x 50L 6 支 piece	JIS B 2401-1B-G120 2 條 piece	3-1/2" 1 塊 block
	M20 x 60L 8 支 piece	JIS B 2401-1B-G120 2 條 piece	4" 1 塊 block
	M10 x 35L 4 支 piece	JIS B 2401-1B-G30 1 條 piece	3/4" 1 塊 block

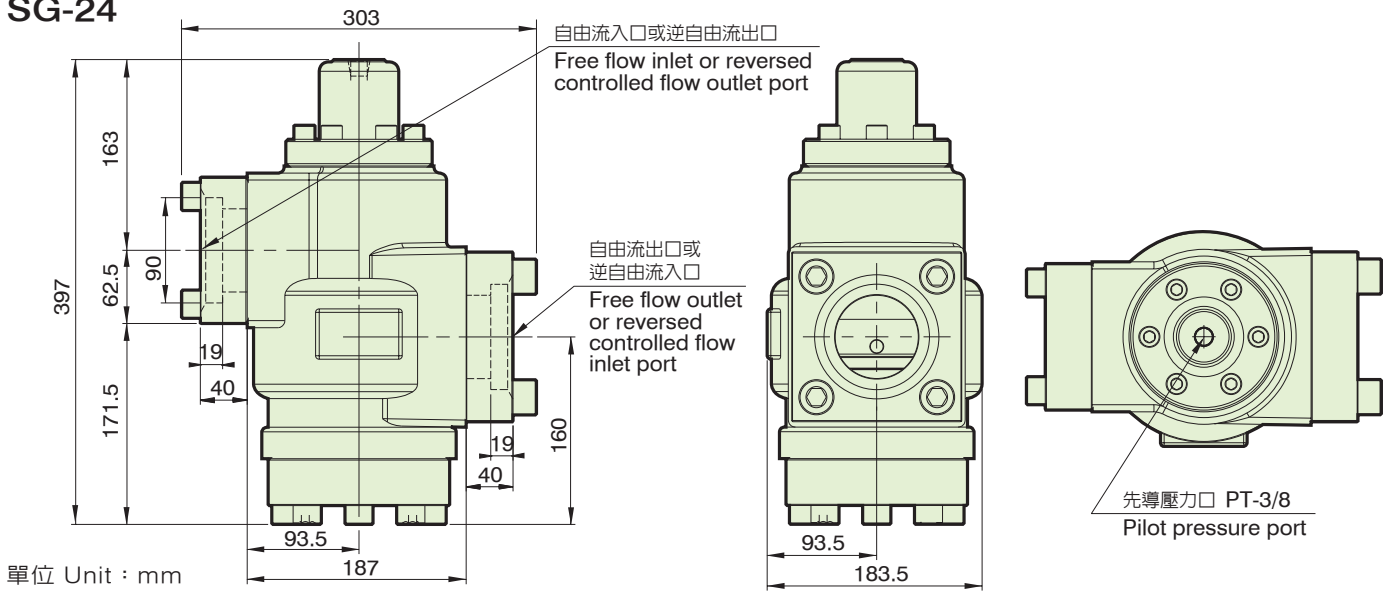
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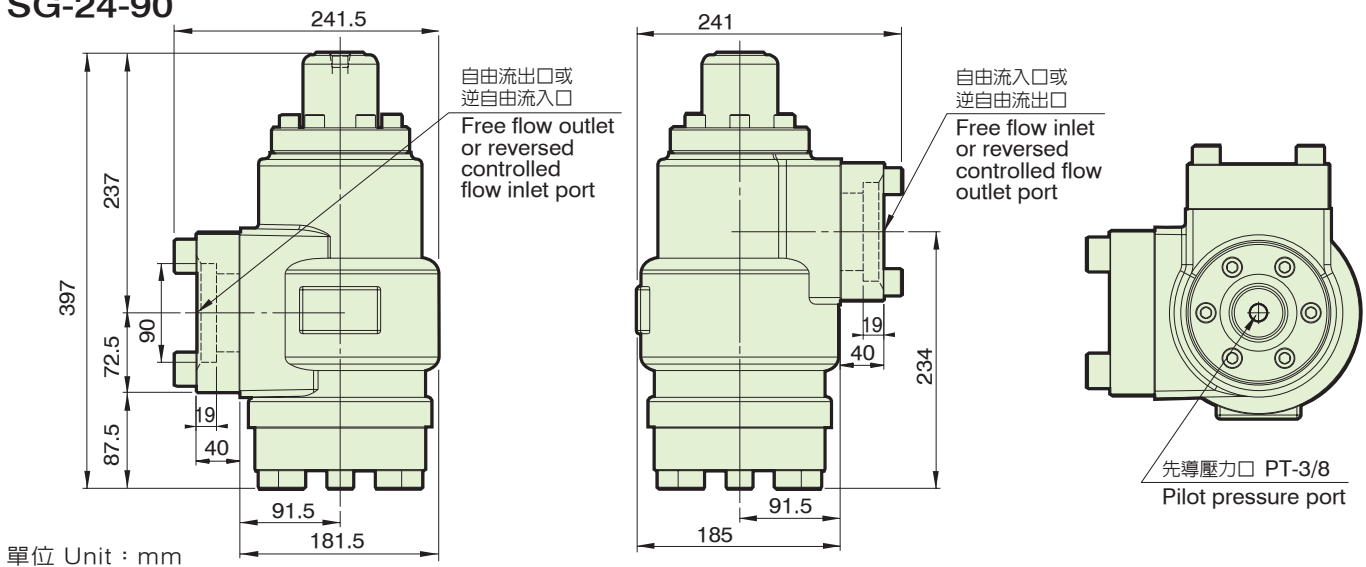
SG-16



SG-24

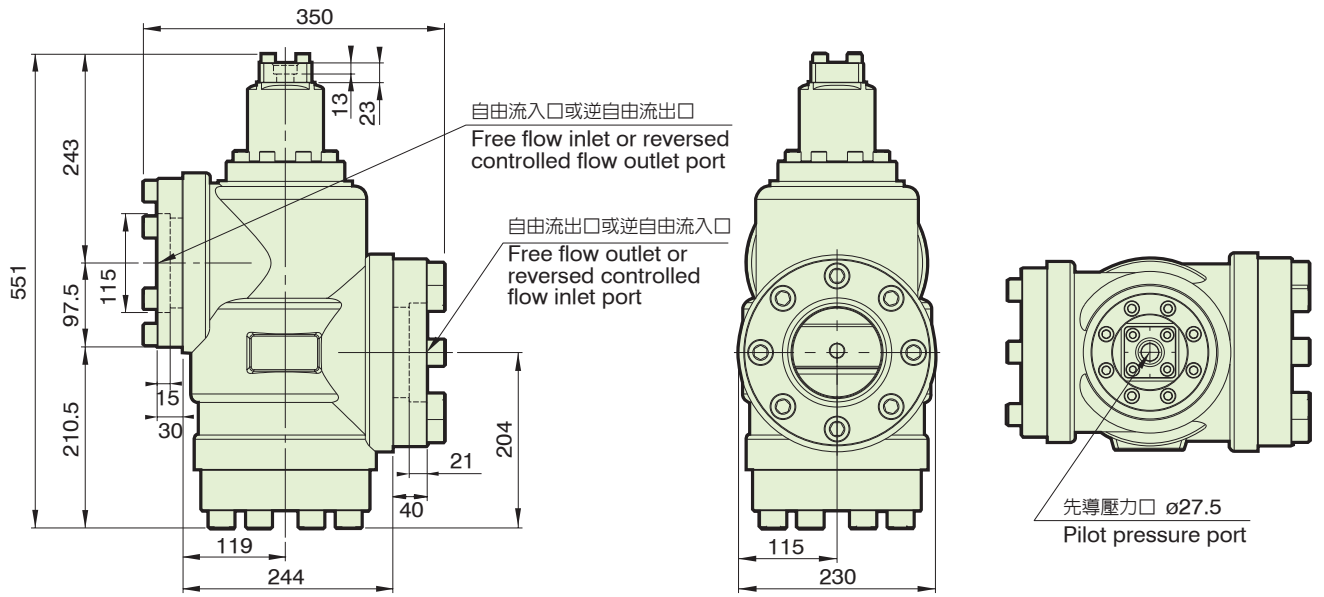


SG-24-90



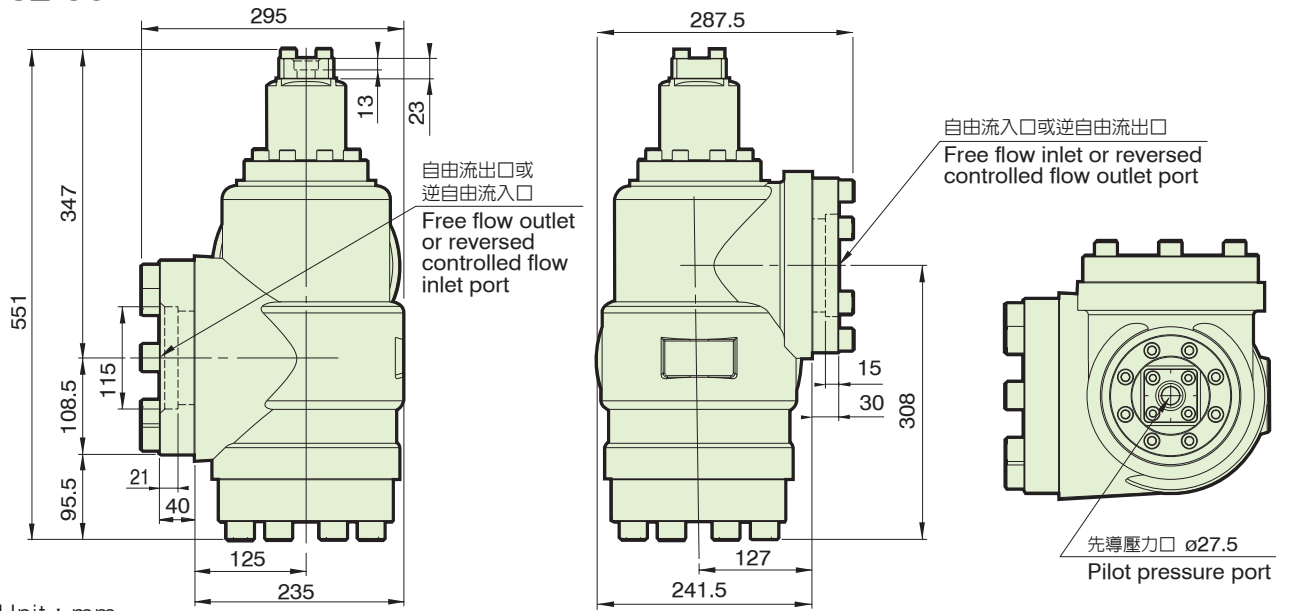
方向控制閥 (滿油閥) DIRECTIONAL CONTROL VALVE (Pre-fill valves)

SG-32



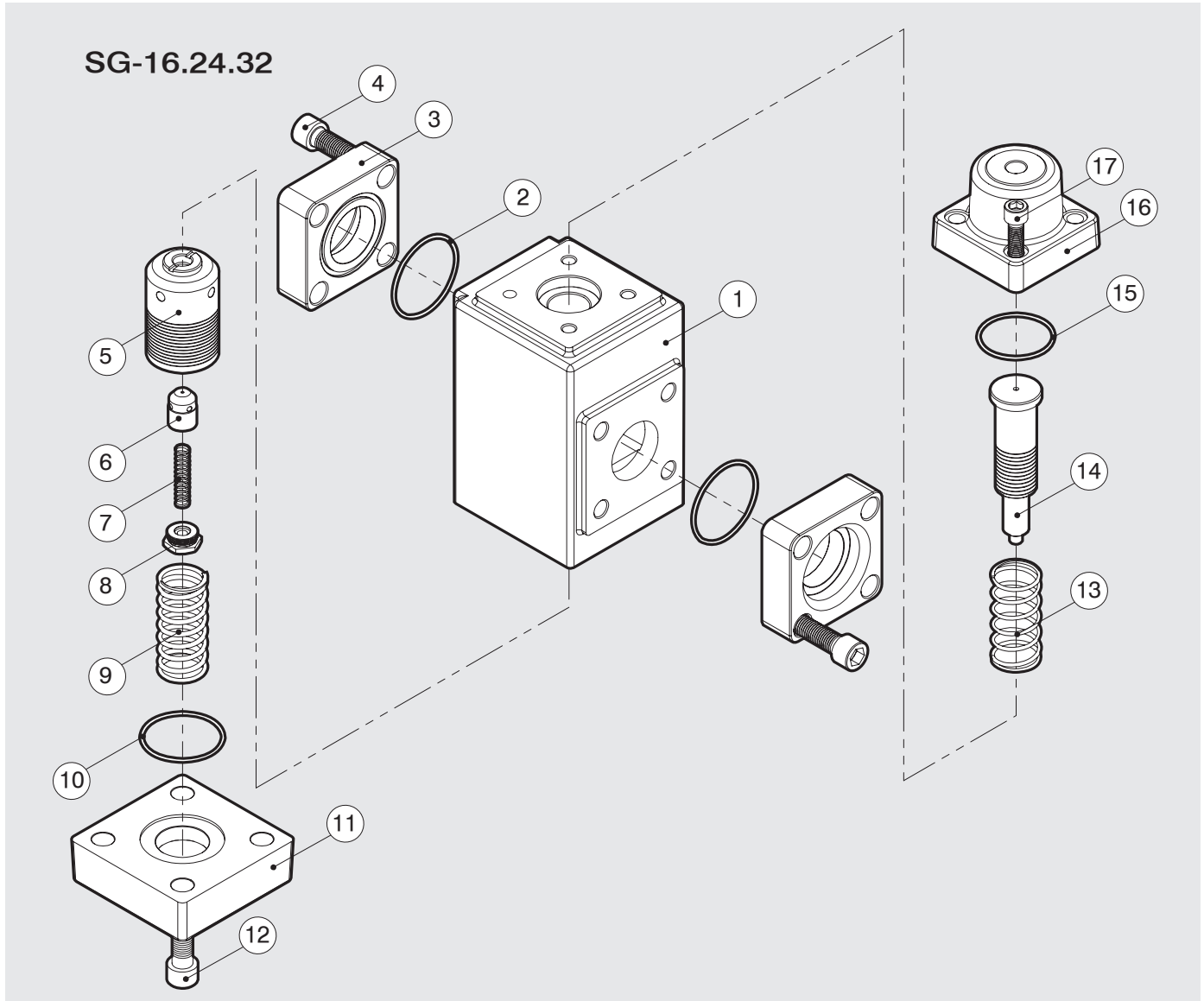
單位 Unit : mm

SG-32-90



單位 Unit : mm

爆炸圖 How to order for a complete assembled valve



方向控制閥 滿油閥
Directional Control Valve (Pre-fill valves)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	SG-16 JIS B 2401-1B-G60	2
	SG-24 JIS B 2401-1B-G85	2
3	SG-32 JIS B 2401-1B-G120	2
	法蘭 Flange	2
4	SG-16 M16 x 50L	8
	SG-24 M16 x 60L	4
	SG-24 M20 x 60L	4
	SG-32 M16 x 50L	6
5	SG-32 M20 x 60L	8
	槍子閥 Check valve	1
6	槍子閥-小 Check valve small	1
7	槍子閥彈簧-小 Spring small	1
8	螺母 Nut	1
9	槍子閥彈簧-大 Spring big	1
10	SG-16 JIS B 2401-1B-G60	1

項次編號 No.	品名 Name of parts	數量 Q
10	SG-24 JIS B 2401-1B-G95	1
	SG-32 JIS B 2401-1B-G125	1
11	底蓋 Cover	1
12	SG-16 M16 x 55L	4
	SG-24 M16 x 60L	12
13	SG-32 M20 x 70L	8
	彈簧 Spring	1
14	推桿 Push rod	1
15	SG-16 JIS B 2401-1B-G55	1
	SG-24 JIS B 2401-1B-G55	1
	SG-32 JIS B 2401-1B-G75	1
16	閥蓋 Cover	1
17	SG-16 M12 x 40L	4
	SG-24 M12 x 40L	6
	SG-32 M12 x 40L	8
	SG-32 M10 x 35L	4

- PF 系列滿油閥之特性是，體積小，通過流量大，不洩漏。但是開關前需先洩壓才可開啓。
- PF 系列滿油閥之功用是，作為液壓缸與油箱之間的排油閥用途。
- 在大型壓力機構的快進行程需從油箱向油缸吸油。在加壓時可防止油從油缸流入油箱。反向時油缸則會將油排至油箱內。
- The feature of pre-fill valve PF series is compact construction, available for large flow, no leaking. It must leak the pressure before turning on.
- The function of Pre-fill valve PF series is a drain valve between hydraulic cylinder and tank.
- During operation in a large pressure mechanism, it needs to suck oil from tank to hydraulic cylinder. While pressurizing, it prevents the oil flowing from hydraulic cylinder to tank. When reversion, hydraulic cylinder will make oil draining to tank.



PF-50. 80. 90. 100. 125. 150

型號意義 How to order :

PF - 80 - FT

1 2 3

1	系列號	Series
2	口徑代號	Valve size 50:2", 80:3", 90:3-1/2", 100:4", 125:5", 150:6"
3	FPT: P.T 口皆附法蘭 FP: P 口附法蘭 FT: T 口附法蘭	FPT: With flange on port P, T FP: With flange on port P FT: With flange on port T

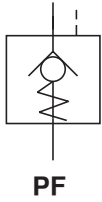
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	開啓壓力 Cracking pressure (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
滿油閥 Pre-fill valves	2	PF-50	0.12	250	3.4
	3	PF-80	0.12	400	8.7
	3-1/2	PF-90	0.12	630	12.1
	4	PF-100	0.12	1000	16.5
	5	PF-125	0.12	1600	27.1
	6	PF-150	0.13	2500	39.6

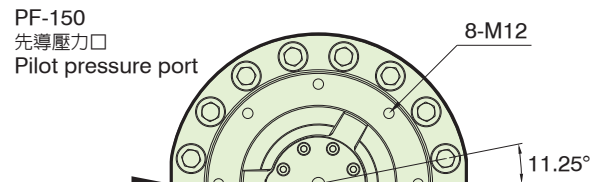
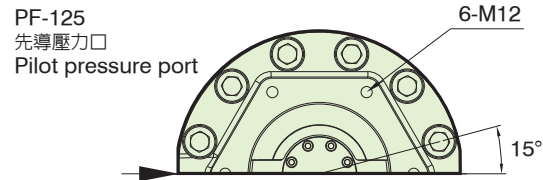
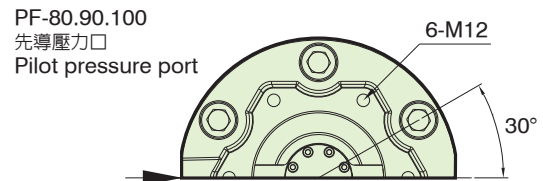
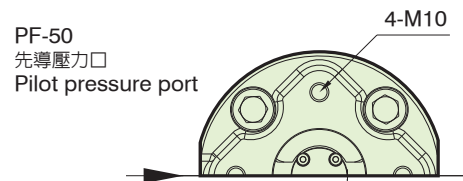
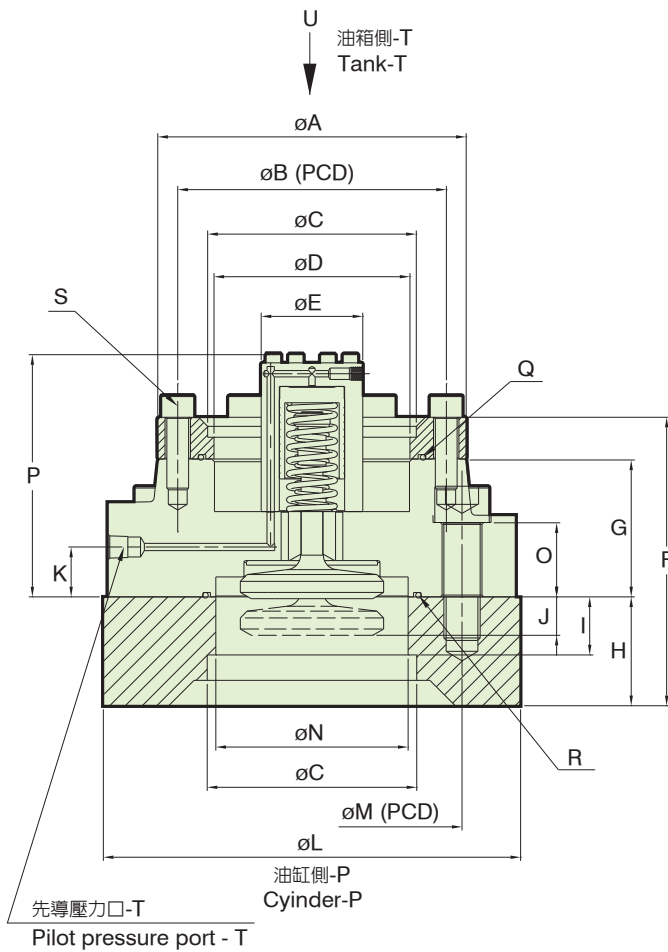
附件 Attachment :

型號 Model	安裝螺絲 (PF法蘭) Mounting bolts (PF Flange)	型號 Model	安裝螺絲 (PT法蘭) Mounting bolts (PT Flange)
PF-50	M16 x 45L 4 支 piece	PF-50	M10 x 35L 4 支 piece
PF-80	M16 x 55L 6 支 piece	PF-80	M12 x 40L 6 支 piece
PF-90	M18 x 60L 6 支 piece	PF-90	M12 x 40L 6 支 piece
PF-100	M20 x 65L 6 支 piece	PF-100	M12 x 40L 6 支 piece
PF-125	M20 x 75L 12 支 piece	PF-125	M12 x 50L 6 支 piece
PF-150	M20 x 90L 16 支 piece	PF-150	M12 x 50L 8 支 piece

圖形符號 Graphic symbol :



PF-50.80.90.100.125.150



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
PF-50	118	-	61.5	51	31	101	48	35	18	8	15	133	-	48	22.5	73.5	G-60-90	G-60-90	4-M10x35	PT 1/4
PF-80	142	120	90	71.5	44	134	66	45	22	11.5	22.5	180	146	71	30	95.5	G-85-90	G-80-90	6-M12x40	PT 1/4
PF-90	160	135	102	89	50	147	74	50	30	13	27.5	200	165	88	39	120.5	G-105-90	G-100-90	6-M12x40	PT 1/4
PF-100	170	148	115	108	56	159	76	60	32	18	27.5	230	191	106	41	134	G-120-90	G-115-90	6-M12x40	PT 1/4
PF-125	200	175	141.2	130.5	69	196	85	80	50	23.5	43	265	230	130	51	164	G-145-90	P-140-90	6-M12x50	PT 1/4
PF-150	225	200	167	155	95.5	216	105	80	40	25	44.5	300	260	168	64	201	G-170-90	G-180-90	8-M12x50	PT 3/8

※ 油缸側 -P 端，請參考尺寸圖 øN。

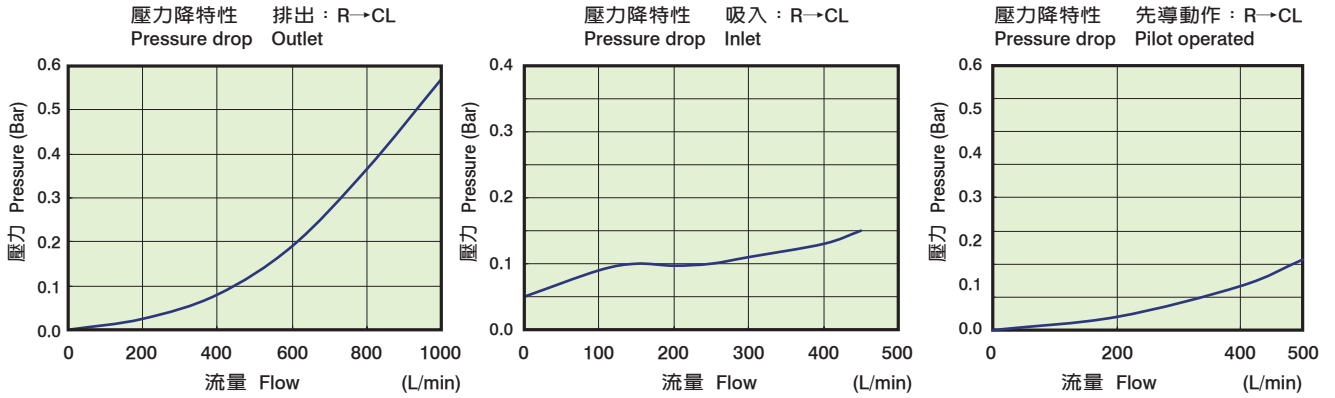
※ Cylinder- side with P End, Please refer to the dimensional drawings øN.

性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖

The characteristic curve chart of Flow vs. Pressure

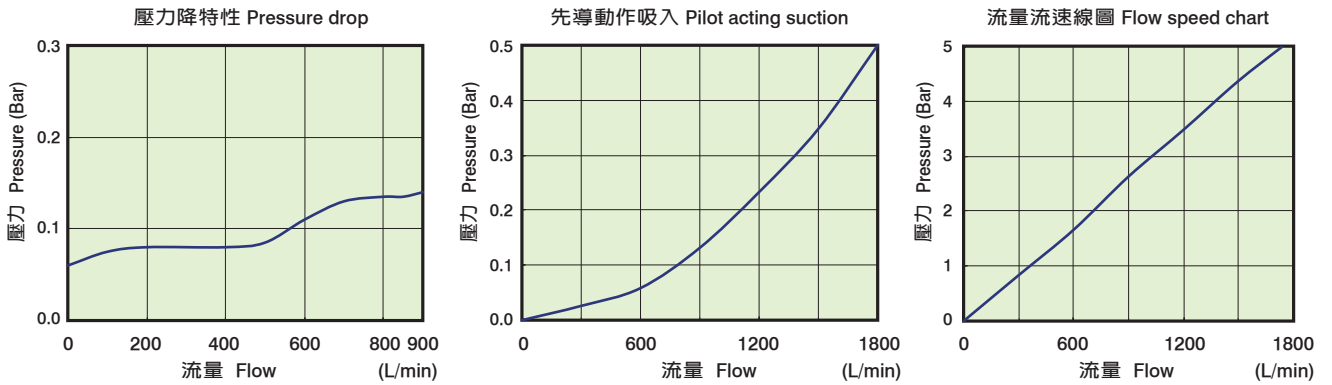
測試條件：黏度 Test fluid viscosity: 35mm²/s {cSt}
Test temperature 50°C 比重 Specific gravity of 0.850



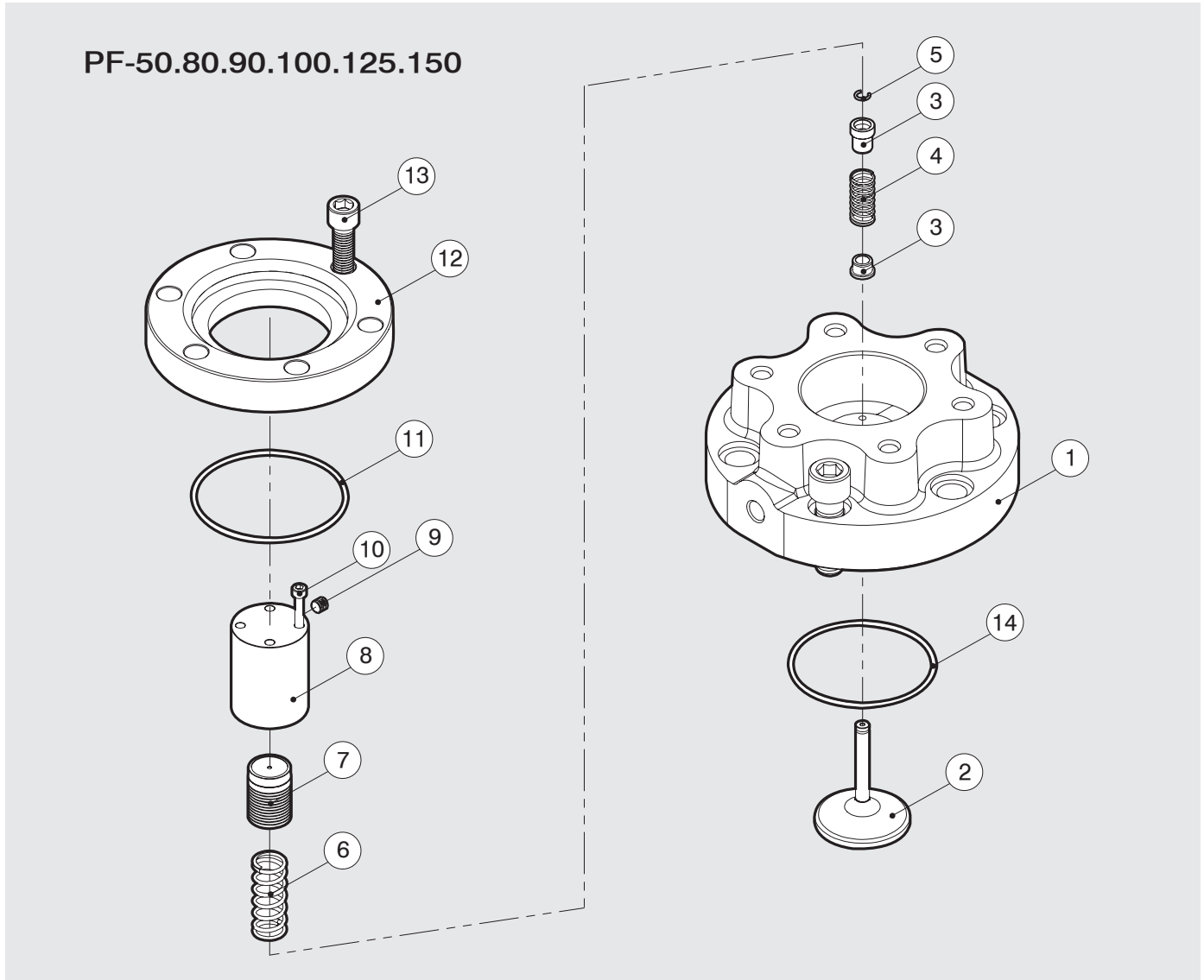
■ 流量-壓力特性曲線圖

The characteristic curve chart of Flow vs. Pressure

測試條件：黏度 Test fluid viscosity: 35mm²/s {cSt}
Test temperature 50°C 比重 Specific gravity of 0.850



爆炸圖 How to order for a complete assembled valve



方向控制閥
滿油閥
Directional Control Valve (Pre-fill valves)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	推桿 Push rod	1
3	彈簧固定墊圈 Spring retainer	1
4	彈簧(左旋) Spring (L)	1
5	彈簧C扣 Spring ring	1
6	彈簧(右旋) Spring (R)	1
7	活塞 Piston	1
8	活塞座 Piston seat	1
9	PT 1/16	1
10	PF-50 M4 x 50L	4
	PF-80 M5 x 65L	4
	PF-90 M5 x 80L	4
	PF-100 M5 x 90L	8
	PF-125 M6 x 110L	8
11	PF-50 JIS B 2401-1B-G60	1
	PF-80 JIS B 2401-1B-G85	1

項次編號 No.	品名 Name of parts	數量 Q
11	PF-90 JIS B 2401-1B-G105	1
	PF-100 JIS B 2401-1B-G120	1
	PF-125 JIS B 2401-1B-G145	1
	PF-150 JIS B 2401-1B-G170	1
12	法蘭 Flange	1
13	PF-50 M10 x 35L	4
	PF-80 M12 x 40L	6
	PF-90 M12 x 40L	6
	PF-100 M12 x 40L	6
	PF-125 M12 x 45L	6
14	PF-150 M12 x 45L	8
	PF-50 JIS B 2401-1B-G60	1
	PF-80 JIS B 2401-1B-G80	1
	PF-90 JIS B 2401-1B-G100	1
	PF-100 JIS B 2401-1B-G115	1
	PF-125 JIS B 2401-1B-P140	1
PF-150 JIS B 2401-1B-G180	1	

- PDF 系列滿油閥之特性是，體積小，容易安裝，通過流量大，不洩漏。不必加裝卸壓閥，卸壓閥開閥一氣呵成。卸壓時最低先導壓僅須主缸的12~17%。
- PDF 系列滿油閥之功用是，作為液壓缸與油箱之間的排油閥用途。
- 在大型壓力機構的快進行程需從油箱向油缸吸油。在加壓時可防止油從油缸流入油箱。反向時油缸則會將油排至油箱內。
- The feature of PDF serial Prefill valve is compact and easy to assemble, capable of enlarging the flow without leaking. Besides, dump valve is available to once switch on but without additionally assembling. The lowest pilot pressure when dumping only 12-17% of main cylinder.
- The function of Pre-fill valve PF series is a drain valve between hydraulic cylinder and tank.
- During operation in a large pressure mechanism, it needs to suck oil from tank to hydraulic cylinder. While pressurizing, it prevents the oil flowing from hydraulic cylinder to tank. When reversion, hydraulic cylinder will make oil draining to tank.



PDF- 50. 80. 90. 100. 125. 150

型號意義 How to order :

PDF - 80 - FT

1 2 3

1	系列號	Series
2	口徑代號	Valve size 50:2", 80:3", 90:3-1/2", 100:4", 125:5", 150:6"
3	FPT: P.T 口皆附法蘭 FP: P 口附法蘭 FT: T 口附法蘭	FPT: With flange on port P, T FP: With flange on port P FT: With flange on port T

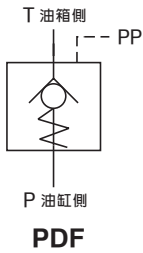
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	先導壓力 Pilot pressure (Kgf/cm ²)	最大流量 Max. Flow (ℓ/min)	重量 Weight (Kg)
兩段式滿油閥 Decmpression type Pre-fill valves	2	PDF-50	48.5	250	3.4
	3	PDF-80	42.3	400	8.7
	3-1/2	PDF-90	34.19	630	12.1
	4	PDF-100	39.45	1000	16.5
	5	PDF-125	33.3	1600	27.1
	6	PDF-150	29.5	2500	39.6

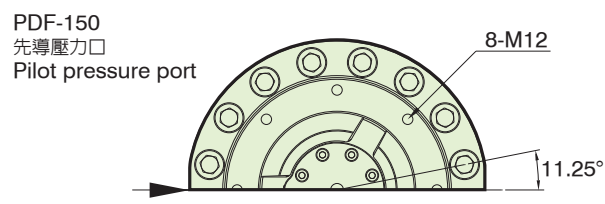
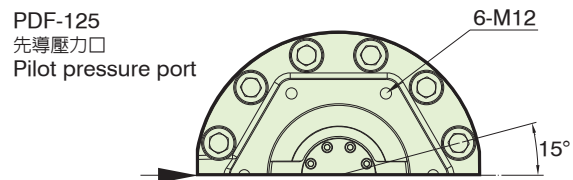
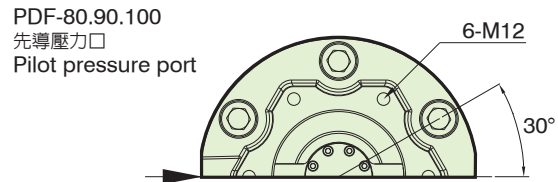
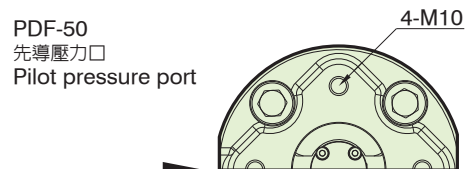
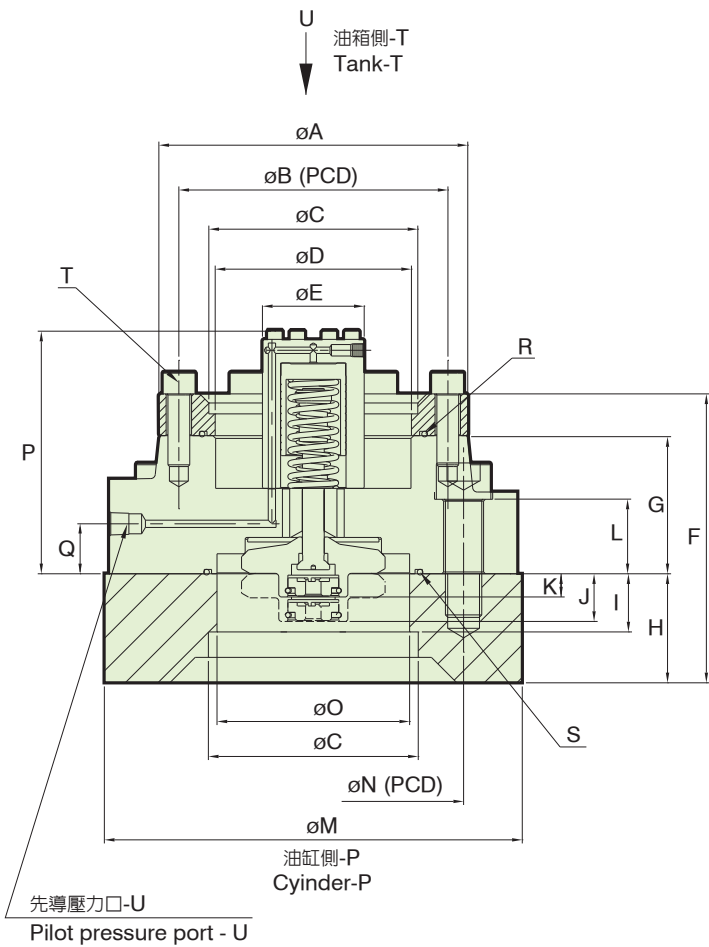
附件 Attachment :

型號 Model	安裝螺絲 (PF法蘭) Mounting bolts (PF Flange)	型號 Model	安裝螺絲 (PT法蘭) Mounting bolts (PT Flange)
PDF-50	M16 x 45L 4 支 piece	PDF-50	M10 x 35L 4 支 piece
PDF-80	M16 x 55L 6 支 piece	PDF-80	M12 x 40L 6 支 piece
PDF-90	M18 x 60L 6 支 piece	PDF-90	M12 x 40L 6 支 piece
PDF-100	M20 x 65L 6 支 piece	PDF-100	M12 x 40L 6 支 piece
PDF-125	M20 x 75L 12 支 piece	PDF-125	M12 x 50L 6 支 piece
PDF-150	M20 x 90L 16 支 piece	PDF-150	M12 x 50L 8 支 piece

圖形符號 Graphic symbol :



PDF-50.80.90.100.125.150



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
PDF-50	118	-	61.5	51	31	101	48	35	18	17	8	22.5	133	-	48	73.5	15	G-60-90	G-60-90	4-M10x35	PT 1/4
PDF-80	142	120	90	71.5	44	134	66	45	22	26.5	11.5	30	180	146	71	95.5	22.5	G-85-90	G-80-90	6-M12x40	PT 1/4
PDF-90	160	135	102	89	50	147	74	50	30	28	13	39	200	165	88	120.5	27.5	G-105-90	G-100-90	6-M12x40	PT 1/4
PDF-100	170	148	115	108	56	159	76	60	32	31	18	41	230	191	106	134	27.5	G-120-90	G-115-90	6-M12x40	PT 1/4
PDF-125	200	175	141.2	130.5	69	196	85	80	50	40.5	23.5	51	265	230	130	164	43	G-145-90	P-140-90	6-M12x50	PT 1/4
PDF-150	225	200	167	155	95.5	216	105	80	40	40	25	64	300	260	168	201	44.5	G-170-90	G-180-90	8-M12x50	PT 3/8

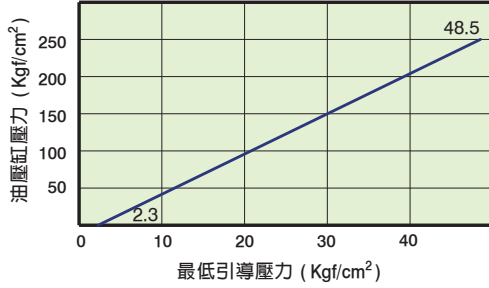
※ 油缸側 -P 端，請參考尺寸圖 øO。

※ Cylinder- side with P End, Please refer to the dimensional drawings øO.

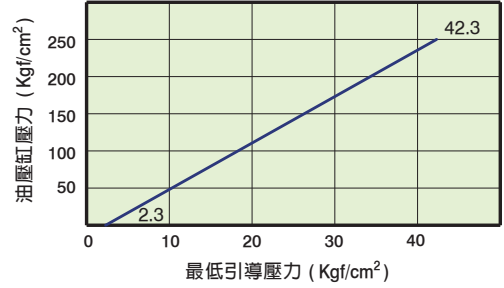
性能曲線圖 Performance curves

■ 流量-壓力特性曲線圖
The characteristic curve chart of Flow vs. Pressure

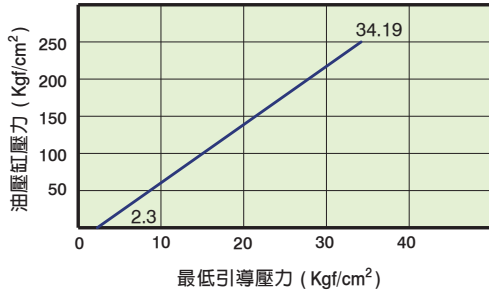
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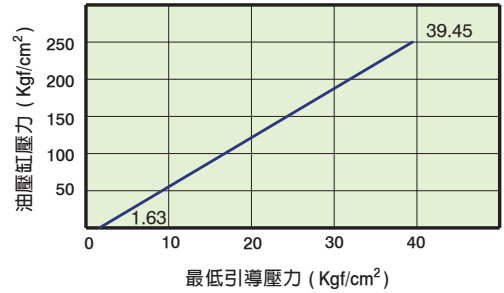
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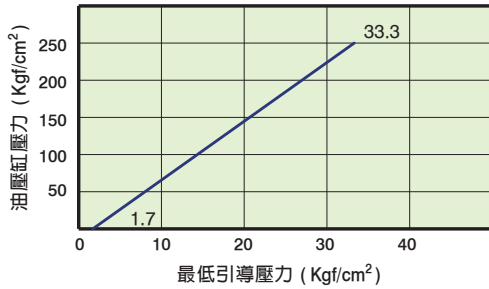
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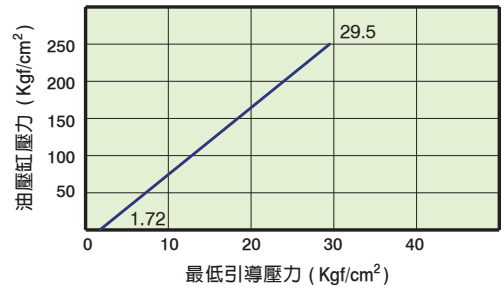
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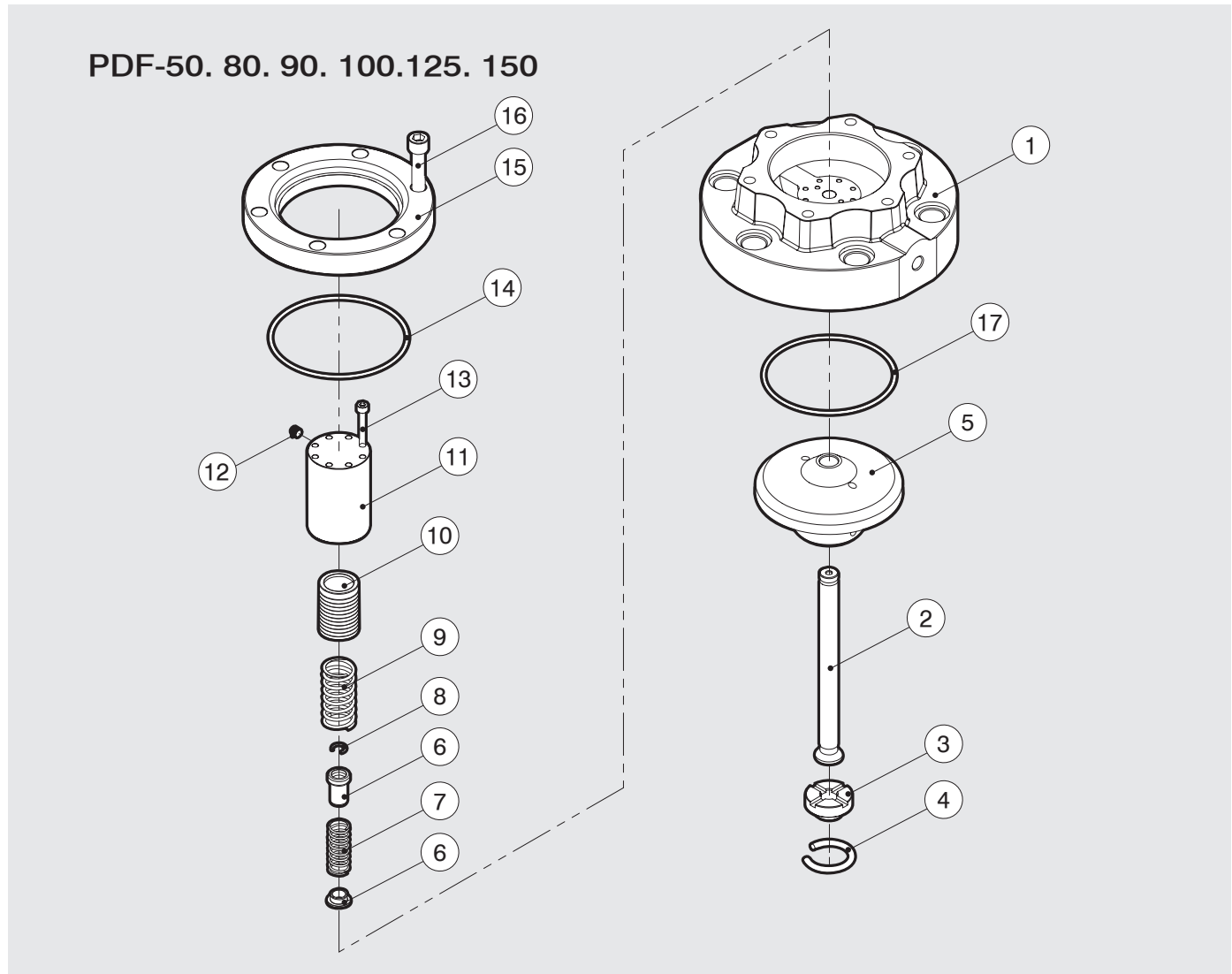
PDF-125



PDF-150



爆炸圖 How to order for a complete assembled valve



方向控制閥
 兩段式滿油閥
 Directional Control Valve (Decmpression type Pre-fill valves)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	推桿 Push rod	1
3	墊片 Washer	1
4	彈簧C扣 Spring ring	1
5	推桿本體 Push rod body	1
6	彈簧固定墊圈 Spring retainer	1
7	彈簧(左旋) Spring (L)	1
8	彈簧C扣 Spring ring	1
9	彈簧(右旋) Spring (R)	1
10	活塞 Piston	1
11	活塞座 Piston seat	1
12	PT 1/16	1
13	PDF-50 M4 x 50L	4
	PDF-80 M5 x 65L	4
	PDF-90 M5 x 80L	4
	PDF-100 M5 x 90L	8
	PDF-125 M6 x 110L	8
PDF-150 M8 x 140L	8	

項次編號 No.	品名 Name of parts	數量 Q
14	PDF-50 JIS B 2401-1B-G60	1
	PDF-80 JIS B 2401-1B-G85	1
	PDF-90 JIS B 2401-1B-G105	1
	PDF-100 JIS B 2401-1B-G120	1
	PDF-125 JIS B 2401-1B-G145	1
PDF-150 JIS B 2401-1B-G170	1	
15	法蘭 Flange	1
16	PDF-50 M10 x 35L	4
	PDF-80 M12 x 40L	6
	PDF-90 M12 x 40L	6
	PDF-100 M12 x 40L	6
	PDF-125 M12 x 45L	6
PDF-150 M12 x 45L	8	
17	PDF-50 JIS B 2401-1B-G60	1
	PDF-80 JIS B 2401-1B-G80	1
	PDF-90 JIS B 2401-1B-G100	1
	PDF-100 JIS B 2401-1B-G115	1
	PDF-125 JIS B 2401-1B-P140	1
	PDF-150 JIS B 2401-1B-G180	1

- PF-※※35 系列滿油閥之特性是，體積小，通過流量加大，不洩漏。但是開關前需先洩壓才可開啓。
- PF-※※35 系列滿油閥之功用是，作為液壓缸與油箱之間的排油閥用途。
- 在大型壓力機構的快進行程需從油箱向油缸吸油。在加壓時可防止油從油缸流入油箱。反向時油缸則會將油排至油箱內。
- The feature of pre-fill valve PF-※※35 series is compact construction, available for large flow, no leaking. It must leak the pressure before turning on.
- The function of Pre-fill valve PF-※※35 series is a drain valve between hydraulic cylinder and tank.
- During operation in a large pressure mechanism, it needs to suck oil from tank to hydraulic cylinder. While pressurizing, it prevents the oil flowing from hydraulic cylinder to tank. When reversion, hydraulic cylinder will make oil draining to tank.



PF-50. 80. 90. 100. 125. 150-35

型號意義 How to order :

PF - 100 - 35 - FT

1 2 3 4

1	系列號	Series
2	口徑代號	Valve size 50:2", 80:3", 90:3-1/2", 100:4", 125:5", 150:6"
3	設計編號	
4	FPT: P.T 口皆附法蘭 FP: P 口附法蘭 FT: T 口附法蘭	FPT: With flange on port P, T FP: With flange on port P FT: With flange on port T

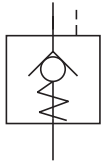
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	開啓壓力 Cracking pressure (Kgf/cm ²)	最大流量 Max. Flow (ℓ /min)	重量 Weight (Kg)
滿油閥 Pre-fill valves	2	PF-50-35	0.12	400	3.4
	3	PF-80-35	0.12	600	8.7
	3-1/2	PF-90-35	0.12	900	12.1
	4	PF-100-35	0.12	1400	16.5
	5	PF-125-35	0.12	2100	27.1
	6	PF-150-35	0.13	3000	39.6

附件 Attachment :

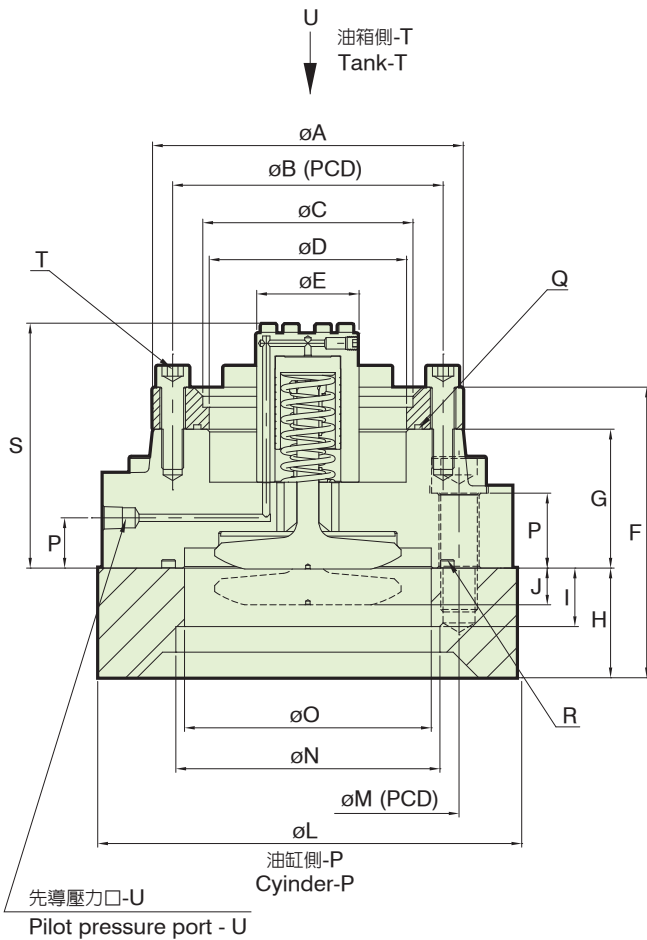
型號 Model	安裝螺絲 (PF法蘭) Mounting bolts (PF Flange)	型號 Model	安裝螺絲 (PT法蘭) Mounting bolts (PT Flange)
PF-50-35	M16 x 45L 4 支 piece	PF-50-35	M10 x 35L 4 支 piece
PF-80-35	M16 x 55L 6 支 piece	PF-80-35	M12 x 40L 6 支 piece
PF-90-35	M18 x 60L 6 支 piece	PF-90-35	M12 x 40L 6 支 piece
PF-100-35	M20 x 65L 6 支 piece	PF-100-35	M12 x 40L 6 支 piece
PF-125-35	M20 x 75L 12 支 piece	PF-125-35	M12 x 50L 6 支 piece
PF-150-35	M20 x 90L 16 支 piece	PF-150-35	M12 x 50L 8 支 piece

圖形符號 Graphic symbol :

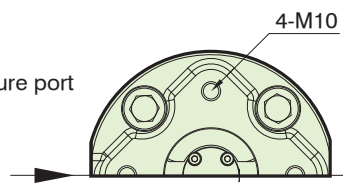


PF-※※-35

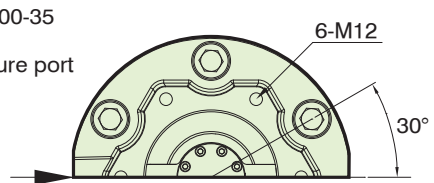
PF-50.80.90.100.125.150-35



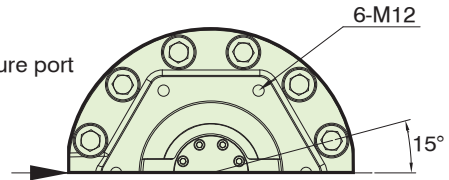
PF-50-35
先導壓力口
Pilot pressure port



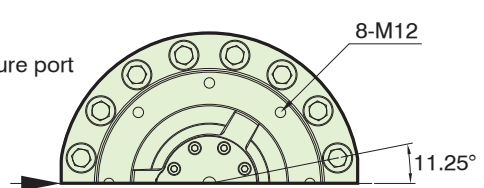
PF-80.90.100-35
先導壓力口
Pilot pressure port



PF-125-35
先導壓力口
Pilot pressure port



PF-150-35
先導壓力口
Pilot pressure port



單位 Unit : mm

型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
PF-50-35	118	-	61.5	51	31	101	48	35	18	8	15	133	-	77.5	67	22.5	G-60-90	G-75-90	73.5	4-M10x35	PT 1/4
PF-80-35	142	120	90	71.5	44	134	66	45	22	11.5	22.5	180	146	108.5	90	30	G-85-90	G-105-90	95.5	6-M12x40	PT 1/4
PF-90-35	160	135	102	89	50	147	74	50	30	13	27.5	200	165	119	106	39	G-105-90	G-115-90	120.5	6-M12x40	PT 1/4
PF-100-35	170	148	115	108	56	159	76	60	32	18	27.5	230	191	142	135	41	G-120-90	G-150-90	134	6-M12x40	PT 1/4
PF-125-35	200	175	141.2	130.5	69	196	85	80	50	23.5	43	265	230	180.7	170	51	G-145-90	G-185-90	164	6-M12x50	PT 1/4
PF-150-35	225	200	167	155	95.5	216	105	80	40	25	44.5	300	260	207	195	64	G-170-90	G-215-90	201	8-M12x50	PT 3/8

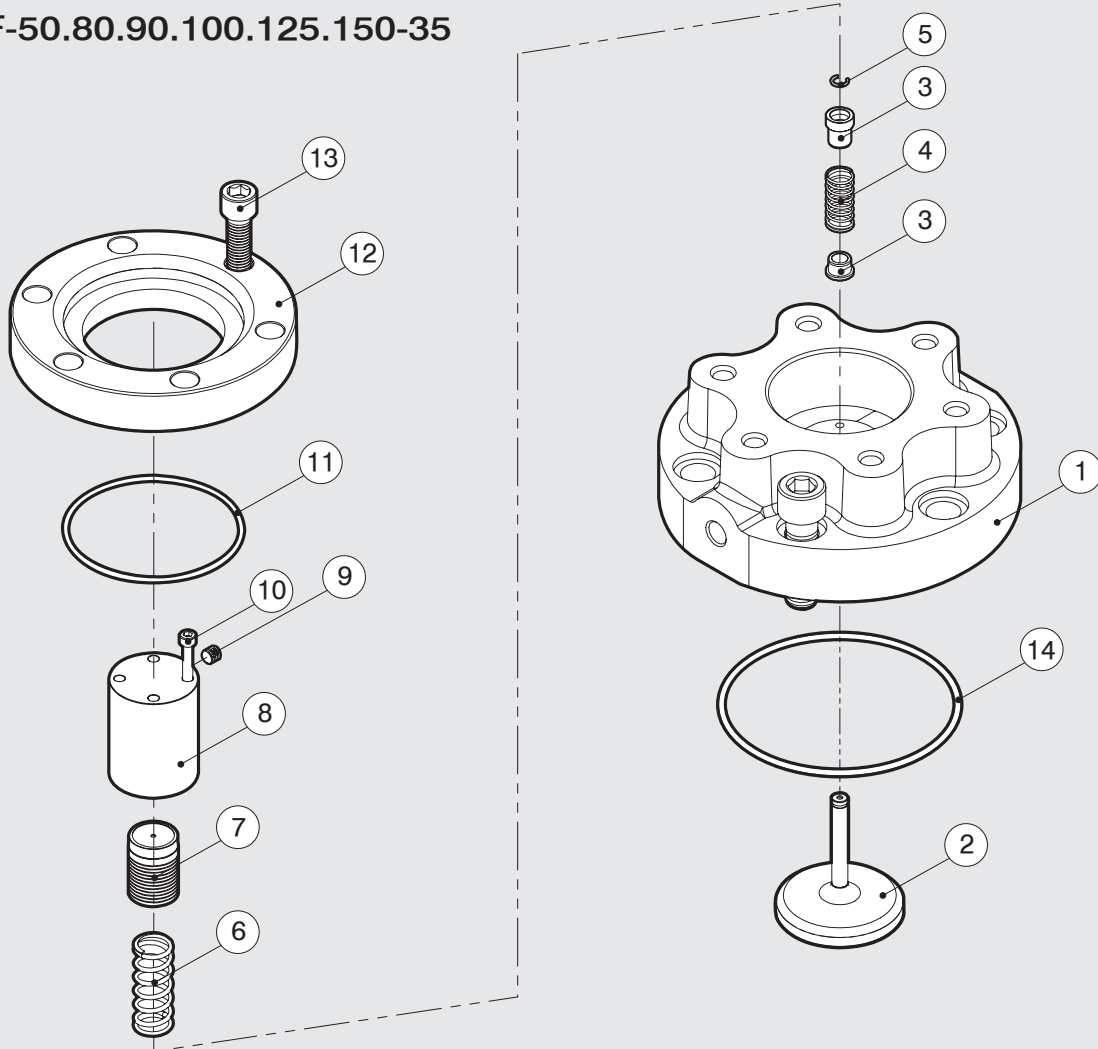
※ 油缸側 -P 端，請參考尺寸圖 øO。

※ Cylinder-side with P End, Please refer to the dimensional drawings øO.

爆炸圖 How to order for a complete assembled valve

方向控制閥 滿油閥
Directional Control Valve (Pre-fill valves)

PF-50.80.90.100.125.150-35



頂次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	推桿 Push rod	1
3	彈簧固定墊圈 Spring retainer	1
4	彈簧(左旋) Spring (L)	1
5	彈簧C扣 Spring ring	1
6	彈簧(右旋) Spring (R)	1
7	活塞 Piston	1
8	活塞座 Piston seat	1
9	PT 1/16	1
10	PF-50-35 M4 x 50L	4
	PF-80-35 M5 x 65L	4
	PF-90-35 M5 x 80L	4
	PF-100-35 M5 x 90L	8
	PF-125-35 M6 x 110L	8
11	PF-50-35 JIS B 2401-1B-G60	1
	PF-80-35 JIS B 2401-1B-G85	1

頂次編號 No.	品名 Name of parts	數量 Q
11	PF-90-35 JIS B 2401-1B-G105	1
	PF-100-35 JIS B 2401-1B-G120	1
	PF-125-35 JIS B 2401-1B-G145	1
	PF-150-35 JIS B 2401-1B-G170	1
12	法蘭 Flange	1
13	PF-50-35 M10 x 35L	4
	PF-80-35 M12 x 40L	6
	PF-90-35 M12 x 40L	6
	PF-100-35 M12 x 40L	6
	PF-125-35 M12 x 45L	6
14	PF-150-35 M12 x 45L	8
	PF-50-35 JIS B 2401-1B-G75	1
14	PF-80-35 JIS B 2401-1B-G105	1
	PF-90-35 JIS B 2401-1B-G115	1
	PF-100-35 JIS B 2401-1B-G150	1
	PF-125-35 JIS B 2401-1B-G185	1
	PF-150-35 JIS B 2401-1B-G215	1

- HV 系列手動換向閥，利用手動改變閥蕊位置，從而切換油流方向，實現油路的換向功能，可以滿足大部分油路系統的需求。
- HV series manually operated valve, by manually changing the spool position, switch flow direction to achieve switch function of circuit, which can meet the need of circuit system mostly.



HV-02. 03

型號意義 How to order :

HV - 02 - A

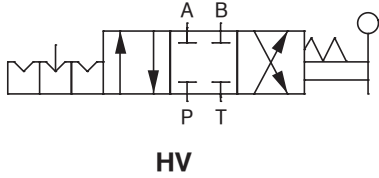
1 2 3

1	系列號	Series
2	口徑代號	Valve size
3	A: 出孔4孔在側 L: 出孔2孔在側，2孔底	

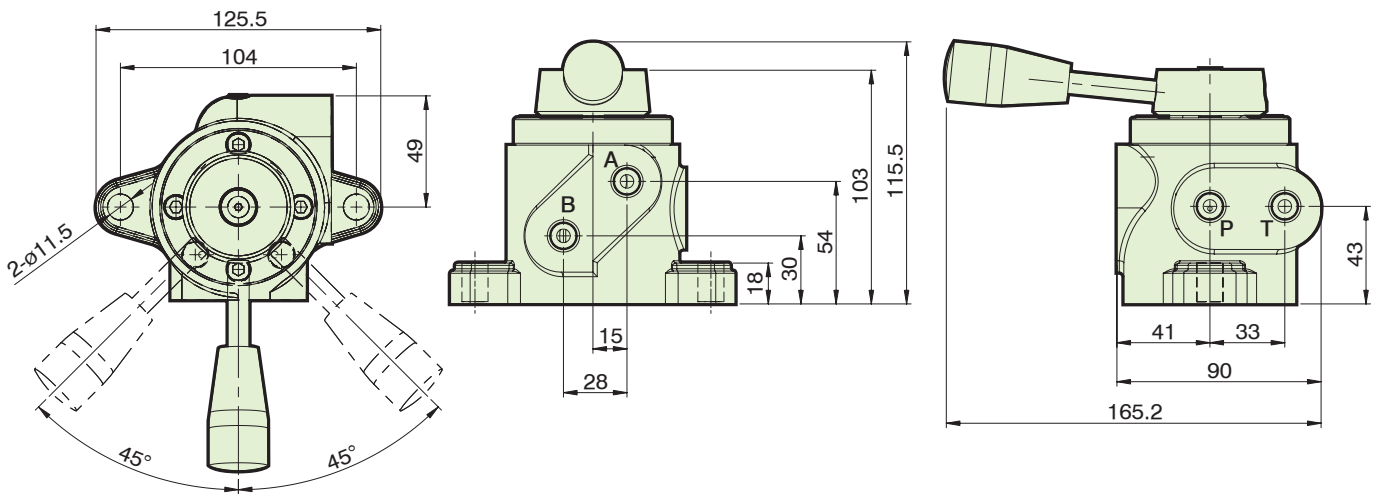
產品規格 Specification :

名稱 Name	口徑 Valve Size	型號 Model	最大流量 Max. Flow (ℓ/min)	最高使用壓力 Max. Operating Pressure (Kgf/cm ²)	最大容許背壓 Max. Back Pressure (Kgf/cm ²)	重量 Weight (Kg)
手動閥 Directional control valves (Manually operated)	1/4	HV-02-※	30	210	70	3.3
	3/8	HV-03-※	30	210	70	3.3

圖形符號 Graphic symbol :

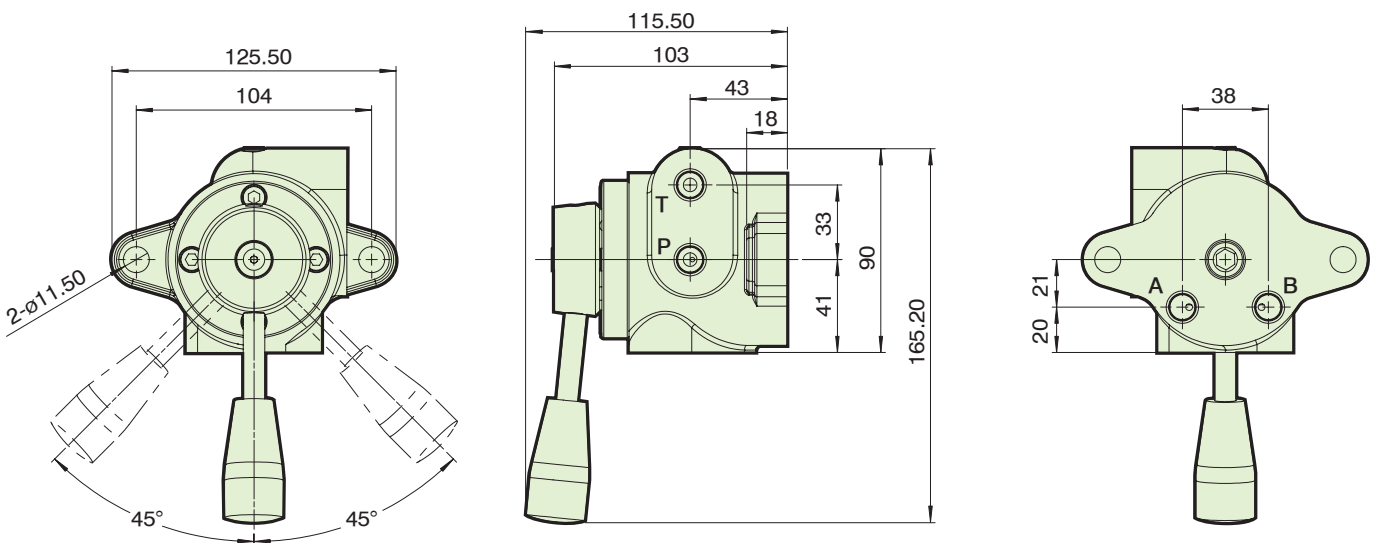


HV-※※-A



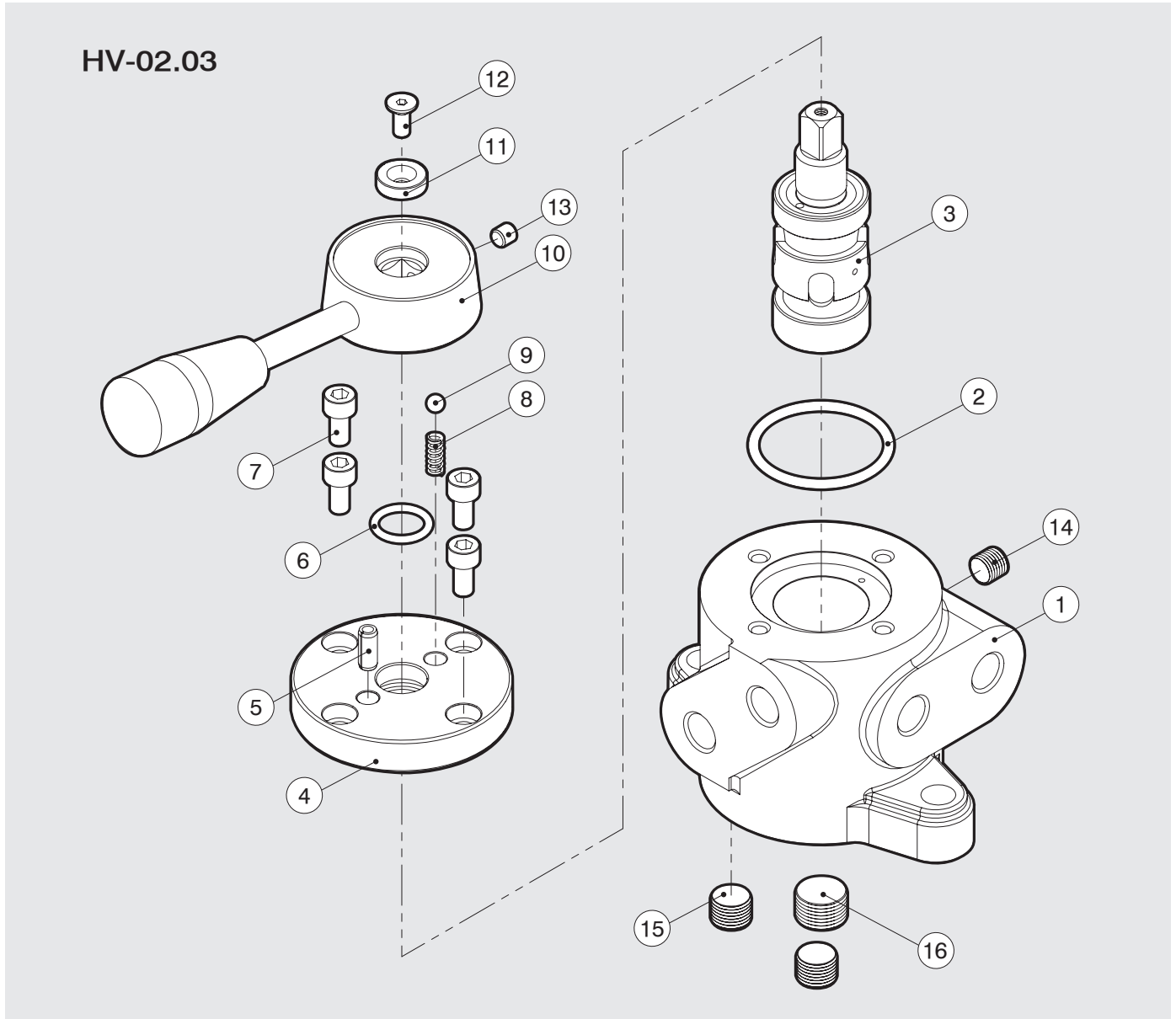
單位 Unit : mm

HV-※※-L



單位 Unit : mm

爆炸圖 How to order for a complete assembled valve



方向控制閥 滿油閥
Directional Control Valve (Pre-fill valves)

項次編號 No.	品名 Name of parts	數量 Q
1	本體 Body	1
2	JIS B 2401-1B-G40	1
3	心軸 Spool	1
4	上蓋 Cover	1
5	彈簧銷 PIN 6 x 14	1
6	JIS B 2401-1A-P16	1
7	M6 x 16L	4
8	彈簧 Spring	1
9	鋼珠 Ball	1

項次編號 No.	品名 Name of parts	數量 Q
10	切換蓋 Switch cover	1
11	墊片 Washer	1
12	M5 x 10L	1
13	M6 x 6L	1
14	PT 1/8	1
15	HV-02 PT 1/4	2
	HV-03 PT 3/8	2
16	PT 3/8	1

螺絲扭力表 (公制)

扭力值

螺絲直徑	0.5 (Kgf.cm)	T (Kgf.cm)	1.5T (Kgf.cm)	2.4T (Kgf.cm)
M3	3	6	10.8	15
(M3.5)	5	10	18	24
M4	8	16	28	37
(M4.5)	11	21	38	49
M5	15	30	54	72
M6	25	50	90	118
(M7)	43	85	160	205
M8	61	122	220	295
M10	122	245	440	590
M12	215	430	770	1040
M14	350	690	1240	1660
M16	550	1100	2000	2650
M18	760	1500	2700	3600
M20	1080	2150	3900	5200
M22	1500	2950	5300	7000
M24	1850	3700	6100	8800
M27	2700	5400	9700	13000
M30	3600	7200	13000	17300
M33	5000	10000	18000	24000
M36	6500	13000	23400	31200
M42	10000	20000	36000	48000
適用螺絲材質	C-B	SS	SCr	SCr
	C-R	S-C	SCM	SCM
	A-B			SNCM

單位換算

1 in = 2.54 cm	1 ft = 30.4 cm	1 lb = 0.454 kg	
1 in-lbs = 1.153 kgf-cm	1 ft-lbs = 13.83 kgf-cm	1 kgf-cm = 0.8673 in-lbs	
1 kgf = 9.807 N	1kgf = 2.205 lbf	1N = 0.101972 kgf	1N = 0.224809 lbf

六角承孔固定螺絲 (英制)

PT 1/8 = 130 Kgf/cm	PT 3/8 = 600 Kgf/cm	PT 3/4 = 1700 Kgf/cm
PT 1/4 = 300 Kgf/cm	PT 1/2 = 1000 Kgf/cm	PT 1 = 2500 Kgf/cm

