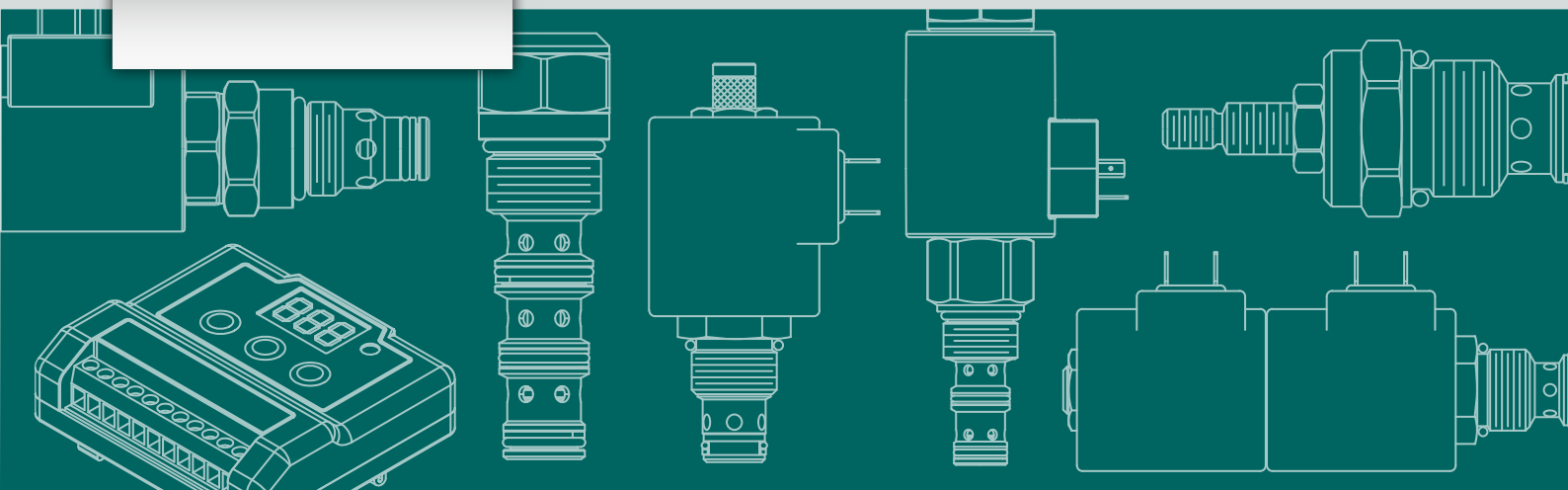




比例插裝閥 / 電路板式放大器 / **SAE**插裝閥 /
電磁式插裝閥 / 電磁線圈 / 閥塊 (插孔)

Proportional Cartridge Valve / Electronic Amplifier P-C Board /
Solenoid Cartridge Valve / Solenoid Coil / Cavities Tooling



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比例插裝閥 Proportional Cartridge Valve

流量控制 Flow Control

壓力控制 Pressure Control

方向控制 Directional Control

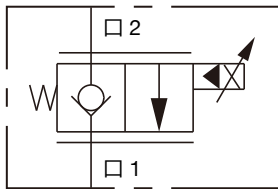
插裝式過濾器 Cartridge Filter



HSP08-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	HSP08-20 : 22, HSP08-20M : 18.4
操作壓力 Operating Pressure (bar)	207
每分鐘 顫震 / 脈衝 頻率 Min. Operating Dither / Pulse Frequency (Hz)	70
磁滯 Hysteresis	低於 5% 到 85% 最大電流流量 ; 低於 10 %到 85% 最大電流流量 less than 5% up to 85% of I-max. ; less than 10% above 85% of I-max.
安裝扭力 Installation Torque (Nm)	25.8 ~ 28.5
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	HSP08-20 : 0.26, HSP08-20M : 0.29

採購選型 ORDER CODE

HSP **08** - **20** **M** **S** - **D1** - **DR** - **N**

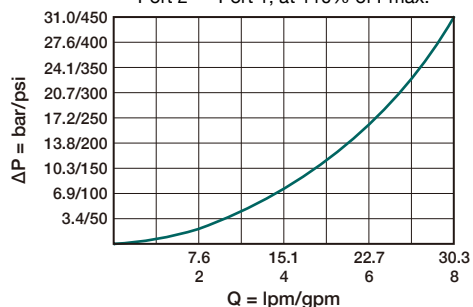
1 2 3 4 5 6 7

1 ▶ 閥規格大小 Valve Size	08
2 ▶ 型號 Model Name	HSP-20
3 ▶ 控制方式 Control Manner	空白 none 無手動操控 without manual override
	M 手動操控 manual override
4 ▶ 濾網 Screen	空白 none 無濾網 without screen
	S 附濾網 with screen
5 ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC
	D2 直流電 24 VDC
6 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
	DL 連接線型 wiring type
	DR 德馳 DT04-2P Deutsch DT04-2P
7 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N
	V 氟橡膠 viton

曲線 PERFORMANCE CURVES

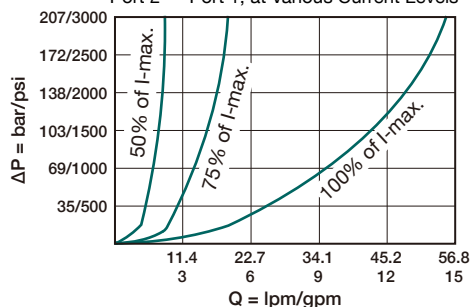
► 壓降 vs. 流量 Pressure Drop vs. Flow

□2 → □1, 在110%最大放電電流
Port 2 → Port 1, at 110% of I-max.



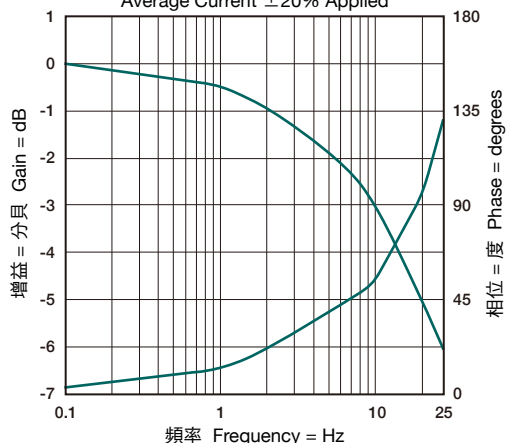
► 壓降 Pressure Drop

□2 → □1, 在不同的電流下
Port 2 → Port 1, at Various Current Levels



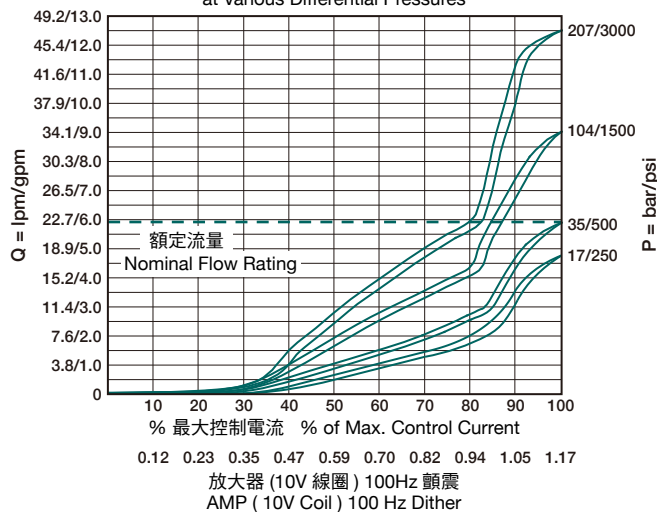
► 頻率響應 Frequency Response

適用於平均電流 ±20%
Average Current ±20% Applied



► 流量 vs. 電流 Flow vs. Current

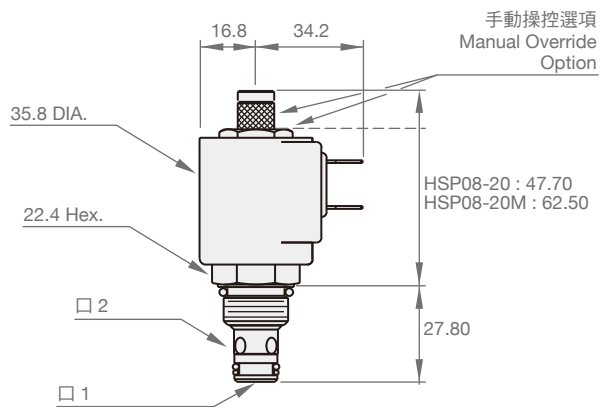
處於不同的壓力下
at Various Differential Pressures



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

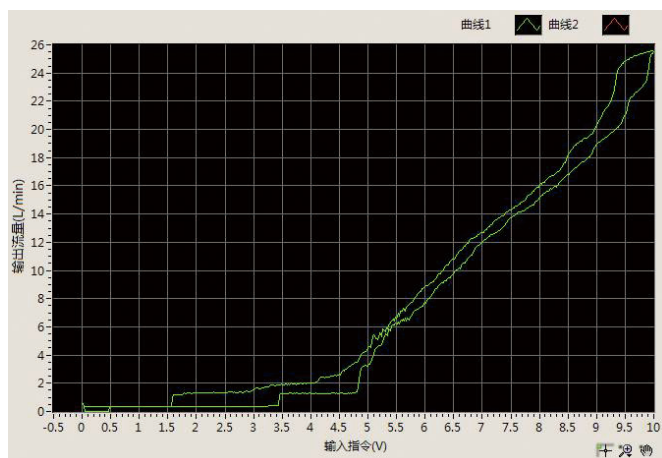
尺寸 DIMENSION

(單位 unit : mm)



輸出流量 vs. 輸入訊號 特性曲線

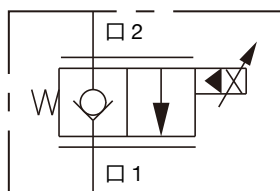
OUTPUT CURRENT vs. INPUT SIGNAL PERFORMANCE CURVES



HSP10-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
流量 Capacity (l/min)	HSP10-20 : 68, HSP10-20M : 64.3
操作壓力 Operating Pressure (bar)	250
每分鐘 顫震 / 脈衝 頻率 Min. Operating Dither / Pulse Frequency (Hz)	70
磁滯 Hysteresis	低於 5% 到 75% 最大電流流量 ; 低於 10 %到 75% 最大電流流量 less than 5% up to 75% of I-max. ; less than 10% above 75% of I-max.
安裝扭力 Installation Torque (Nm)	44.9 ~ 50.3
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	HSP10-20 : 0.47, HSP10-20M : 0.52

採購選型 ORDER CODE

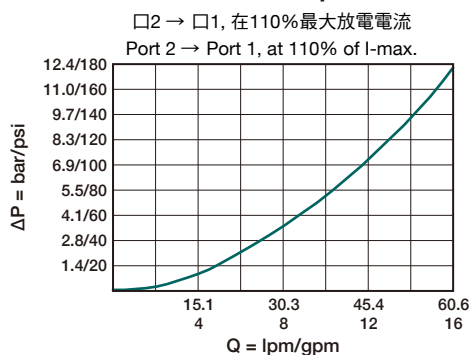
HSP **10** - **20** **M** **S** - **D2** - **DL** - **N**

1 2 3 4 5 6 7

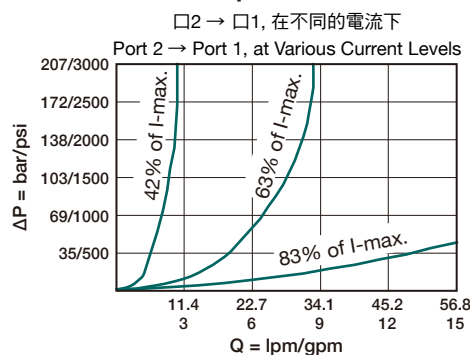
1 ▶ 閥規格大小 Valve Size	10
2 ▶ 型號 Model Name	HSP-20
3 ▶ 控制方式 Control Manner	空白 none 無手動操控 without manual override
	M 手動操控 manual override
4 ▶ 濾網 Screen	空白 none 無濾網 without screen
	S 附濾網 with screen
5 ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC
	D2 直流電 24 VDC
6 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
	DL 連接線型 wiring type
	DR 德馳 DT04-2P Deutsch DT04-2P
7 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N
	V 氟橡膠 viton

曲線 PERFORMANCE CURVES

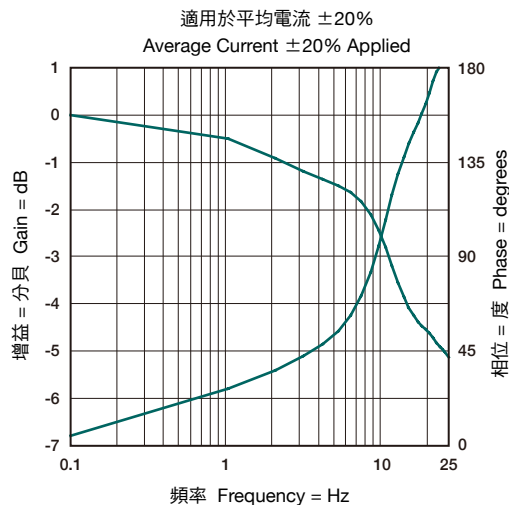
► 壓降 vs. 流量 Pressure Drop vs. Flow



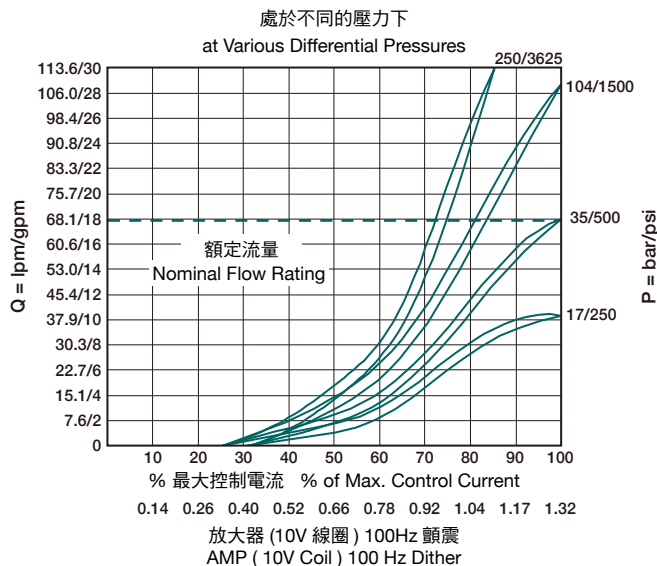
► 壓降 Pressure Drop



► 頻率響應 Frequency Response



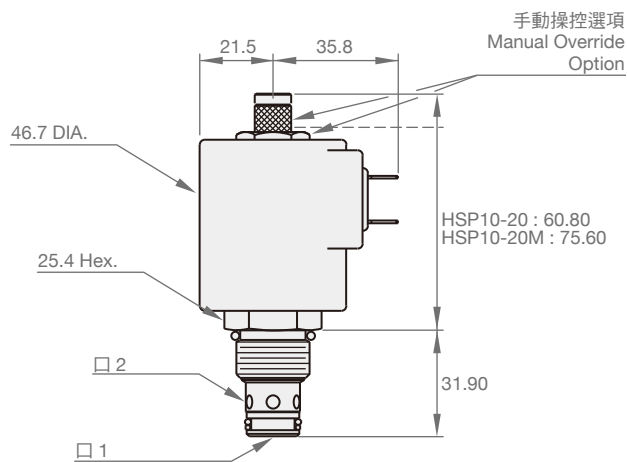
► 流量 vs. 電流 Flow vs. Current



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

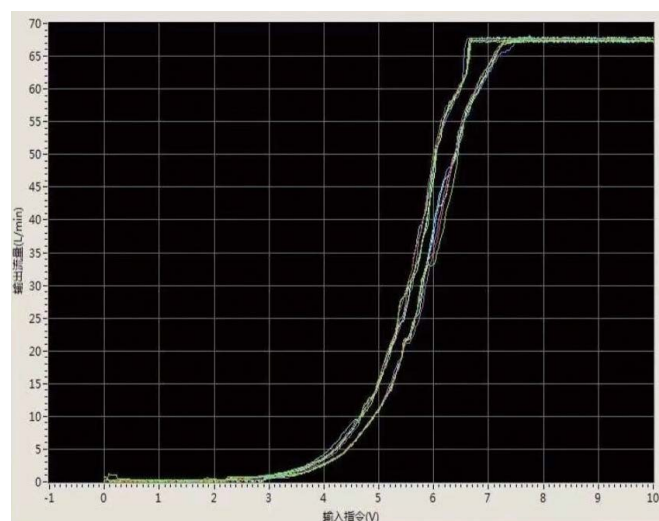
尺寸 DIMENSION

(單位 unit : mm)



輸出流量 vs. 輸入訊號 特性曲線

OUTPUT CURRENT vs. INPUT SIGNAL PERFORMANCE CURVES



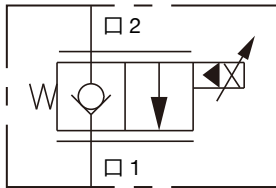
HSP12-20



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-2
流量 Capacity (l/min)	100
操作壓力 Operating Pressure (bar)	250
每分鐘 顫震 / 脈衝 頻率 Min. Operating Dither / Pulse Frequency (Hz)	70
磁滯 Hysteresis	低於 5% 到 60% 最大電流流量 ; 低於 10 %到 60% 最大電流流量 less than 5% up to 60% of I-max. ; less than 10% above 60% of I-max.
安裝扭力 Installation Torque (Nm)	44.9 ~ 50.3
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.54

符號 SYMBOL



採購選型 ORDER CODE

HSP **12** - **20** - **D1** - **DR** - **N**

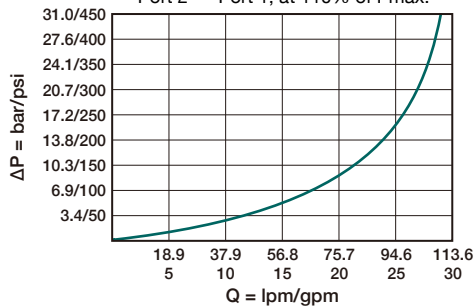
1 2 3 4 5

1	閥規格大小 Valve Size	12
2	型號 Model Name	HSP-20
3	電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
7	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

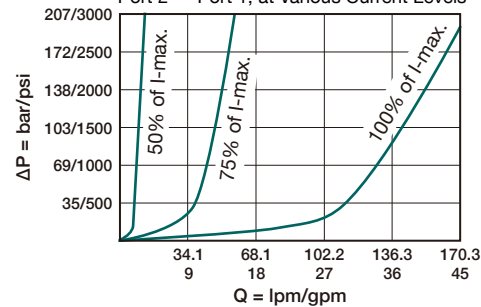
► 壓降 vs. 流量 Pressure Drop vs. Flow

□2 → □1, 在110%最大放電電流
Port 2 → Port 1, at 110% of I-max.



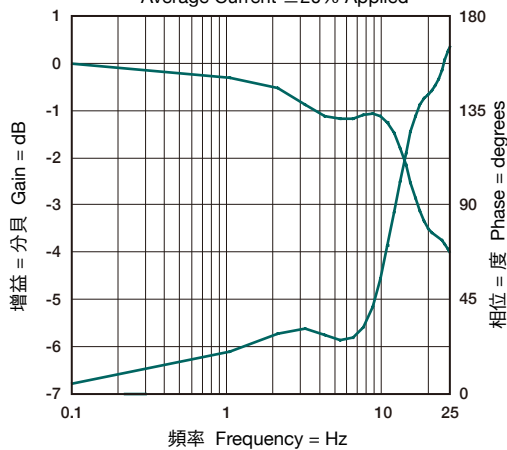
► 壓降 Pressure Drop

□2 → □1, 在不同的電流下
Port 2 → Port 1, at Various Current Levels



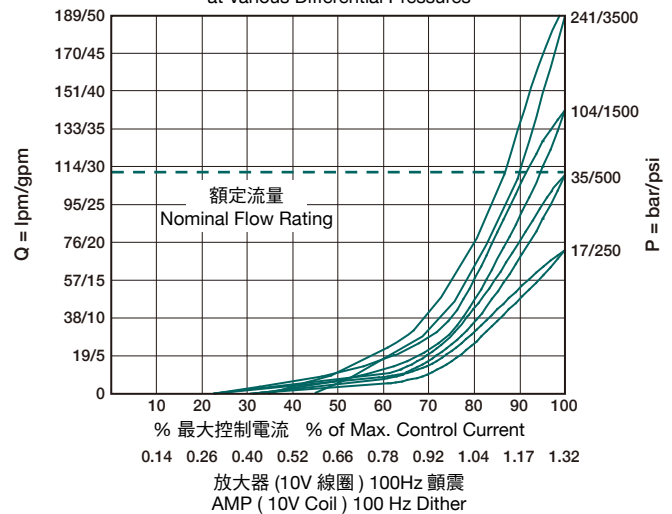
► 頻率響應 Frequency Response

適用於平均電流 ±20%
Average Current ±20% Applied



► 流量 vs. 電流 Flow vs. Current

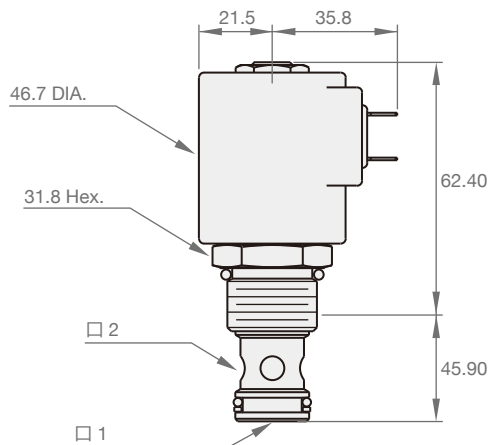
處於不同的壓力下
at Various Differential Pressures



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

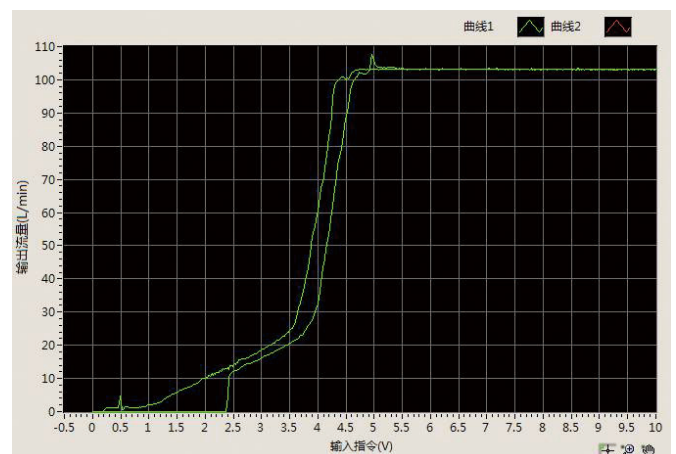
尺寸 DIMENSION

(單位 unit : mm)



輸出流量 vs. 輸入訊號 特性曲線

OUTPUT CURRENT vs. INPUT SIGNAL PERFORMANCE CURVES



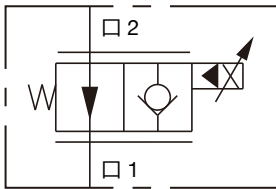
HSP08-21



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	18.9
操作壓力 Operating Pressure (bar)	207
每分鐘 顫震 / 脈衝 頻率 Min. Operating Dither / Pulse Frequency (Hz)	70
內洩量 Internal Leakage	207 bar 下, 每分鐘5滴 5 drops per minute at 207 bar
安裝扭力 Installation Torque (Nm)	25.8 ~ 28.5
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.32

符號 SYMBOL



採購選型 ORDER CODE

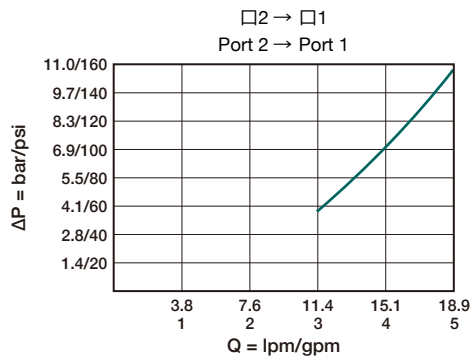
HSP **08** - **21** **M** **S** - **D1** - **DR** - **N**

1 2 3 4 5 6 7

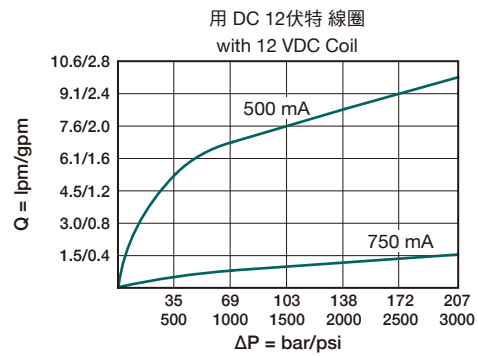
1 ▶	閥規格大小 Valve Size	08	
2 ▶	型號 Model Name	HSP-21	
3 ▶	控制方式 Control Manner	空白 none	無手動操控 without manual override
		M	手動操控 manual override
4 ▶	濾網 Screen	空白 none	無濾網 without screen
		S	附濾網 with screen
5 ▶	電壓 (線圈) Voltage (coil)	D1	直流電 12 VDC
		D2	直流電 24 VDC
6 ▶	接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
		DL	連接線型 wiring type
		DR	德馳 DT04-2P Deutsch DT04-2P
7 ▶	油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton

曲線 PERFORMANCE CURVES

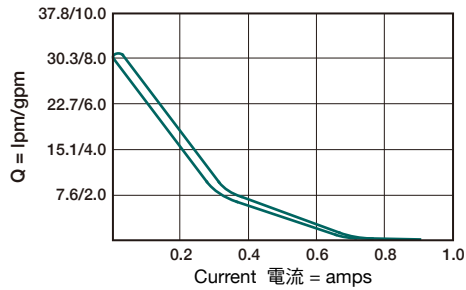
► 壓降 vs. 流量 Pressure Drop vs. Flow



► 典型壓力反饋 Typical Pressure Response



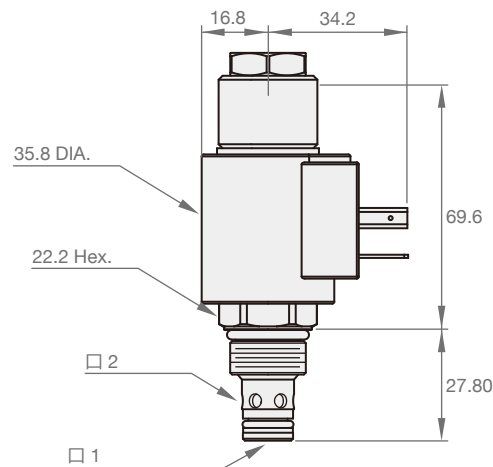
► 電流響應 Current Response



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



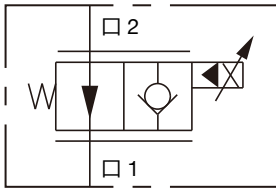
HSP10-21



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
流量 Capacity (l/min)	60.6
操作壓力 Operating Pressure (bar)	250
每分鐘 顫震 / 脈衝 頻率 Min. Operating Dither / Pulse Frequency (Hz)	70
內洩量 Internal Leakage	207 bar 下, 每分鐘5滴 5 drops per minute at 207 bar
安裝扭力 Installation Torque (Nm)	44.9 ~ 50.3
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.54

符號 SYMBOL



採購選型 ORDER CODE

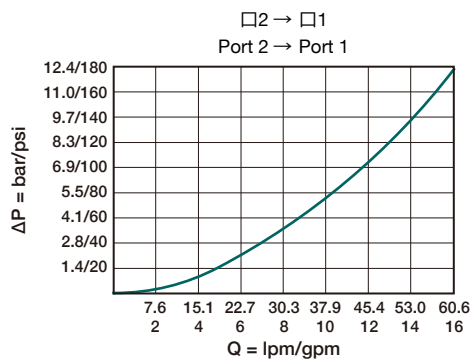
HSP **10** - **21** **M** **S** - **D2** - **DG** - **N**

1
2
3
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6
7

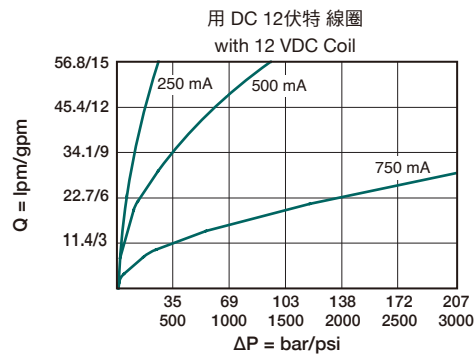
1	閥規格大小 Valve Size	10
2	型號 Model Name	HSP-21
3	控制方式 Control Manner	空白 none 無手動操控 without manual override M 手動操控 manual override
4	濾網 Screen	空白 none 無濾網 without screen S 附濾網 with screen
5	電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC D2 直流電 24 VDC
6	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type DL 連接線型 wiring type DR 德馳 DT04-2P Deutsch DT04-2P
7	油封材質 Material of Seal	N 丁腈橡膠 buna-N V 氟橡膠 viton

曲線 PERFORMANCE CURVES

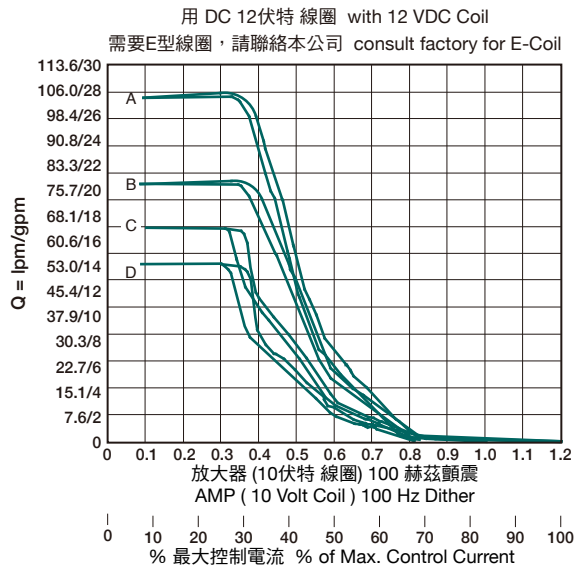
► 壓降 vs. 流量 Pressure Drop vs. Flow



► 典型壓力反饋 Typical Pressure Response



► 流量 vs. 電流 Flow vs. Current

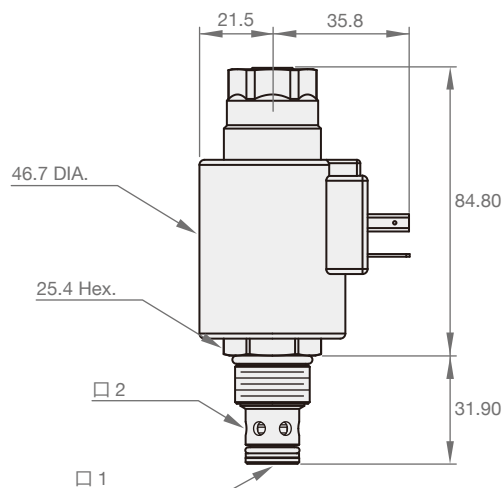


A: 207 bar/3000 psi
B: 104 bar/1500 psi
C: 35 bar/500 psi
D: 11 bar/160 psi

* 黏度 32 cSt / 150 ssu 在攝氏 40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



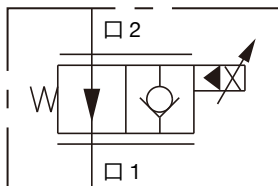
HSP12-21



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-2
流量 Capacity (l/min)	76
操作壓力 Operating Pressure (bar)	250
每分鐘 顫震 / 脈衝 頻率 Min. Operating Dither / Pulse Frequency (Hz)	70
內洩量 Internal Leakage	207 bar 下, 每分鐘5滴 5 drops per minute at 207 bar
安裝扭力 Installation Torque (Nm)	44.9 ~ 50.3
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.32

符號 SYMBOL



採購選型 ORDER CODE

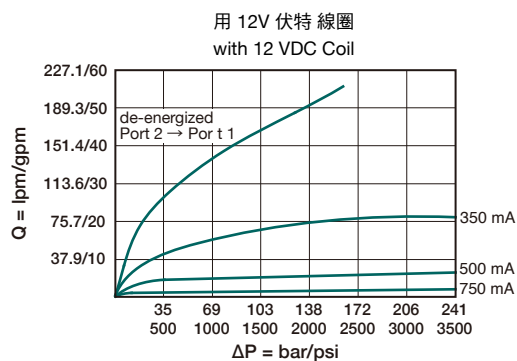
HSP **12** - **21** **S** - **D1** - **DG** - **N**

1 2 3 4 5 6

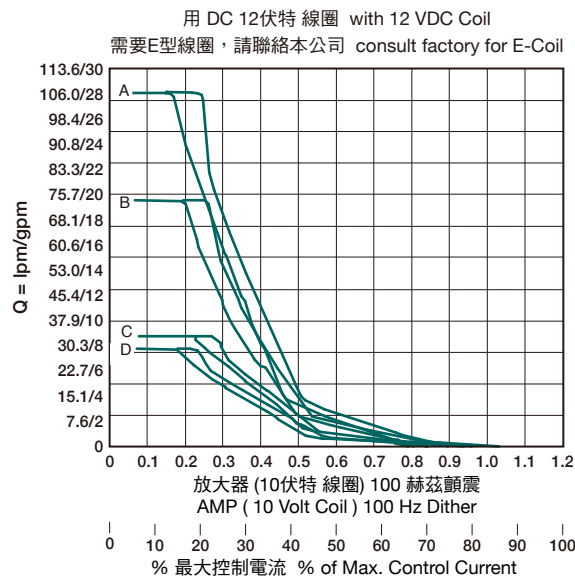
1 ▶ 閥規格大小 Valve Size	12
2 ▶ 型號 Model Name	HSP-21
3 ▶ 濾網 Screen	空白 none 無濾網 without screen
	S 附濾網 with screen
4 ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC
	D2 直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
	DL 連接線型 wiring type
	DR 德馳 DT04-2P Deutsch DT04-2P
6 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N
	V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓力反饋 Typical Pressure Response



► 流量 vs. 電流 Flow vs. Current



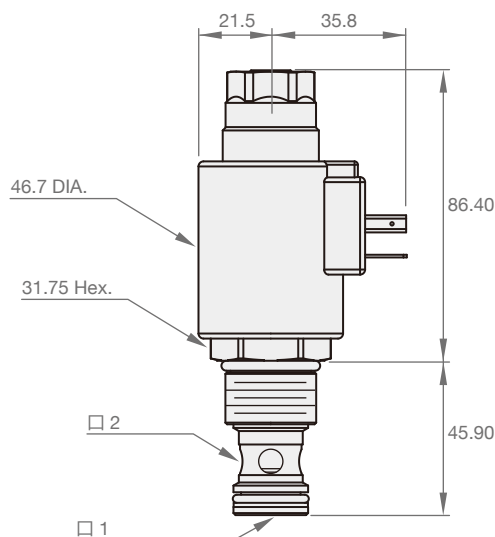
壓降 Pressure Drop

- A: 100 mA : 160 bar / 2320 psi
1200 mA : 228 bar / 3300 psi
B: 100 mA : 79.3 bar / 1150 psi
1200 mA : 104 bar / 1500 psi
C: 100 mA : 16.6 bar / 240 psi
1200 mA : 35 bar / 500 psi
D: 100 mA : 10.3 bar / 150 psi
1200 mA : 13.8 bar / 200 psi

* 黏度 32 cSt / 150 ssu 在攝氏 40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

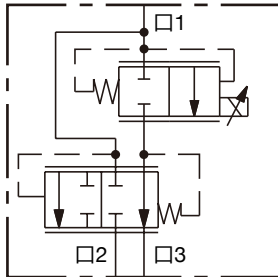
(單位 unit : mm)



SPV70-30



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
流量 Capacity (l/min)	30
操作壓力 Operating Pressure (bar)	□1 : 240, □2 : 207, □3 : 207
內洩量 Internal Leakage	197 cc/min, 207 bar 全閉情況下 197 cc/min, fully closed at 207 bar
安裝扭力 Installation Torque (Nm)	36.7
可調流量範圍 Regulated Flow Rate	旁通阻閉 bypass blocked : 26 lpm (7 gpm) 旁通全開 bypass open : 30 lpm (8 gpm)
最大進入口流量 Max. Input Flow	旁通全開 bypass open : 50 lpm (13 gpm)
臨界點電流 Threshold Current	D1 : 250 ± 100 mA D2 : 125 ± 50 mA
最大控制電流 Max. Control Current	D1 : 1250 ± 150 mA D2 : 600 ± 75 mA
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.53

採購選型 ORDER CODE

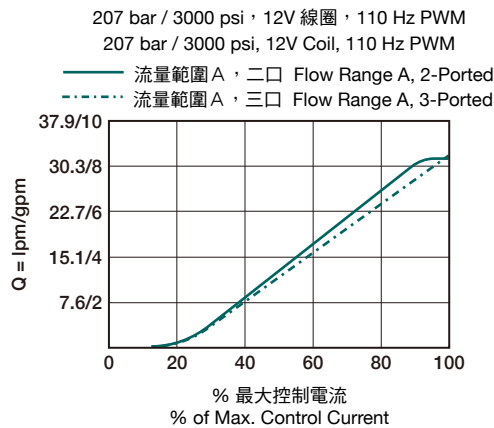
SPV **70** - **30** **A** - **D1** - **DG** - **N**

1 2 3 4 5 6

1 ▶ 閥規格大小 Valve Size	70
2 ▶ 型號 Model Name	SPV-30
3 ▶ 流量範圍 Flow Range	A 30 l/min (8 gpm)
4 ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC D2 直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
6 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N V 氟橡膠 viton

曲線 PERFORMANCE CURVES

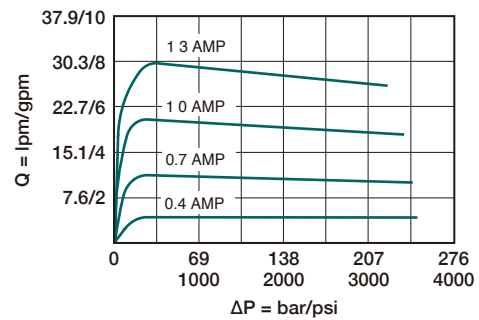
► 流量 vs. 電流 Flow vs. Current



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

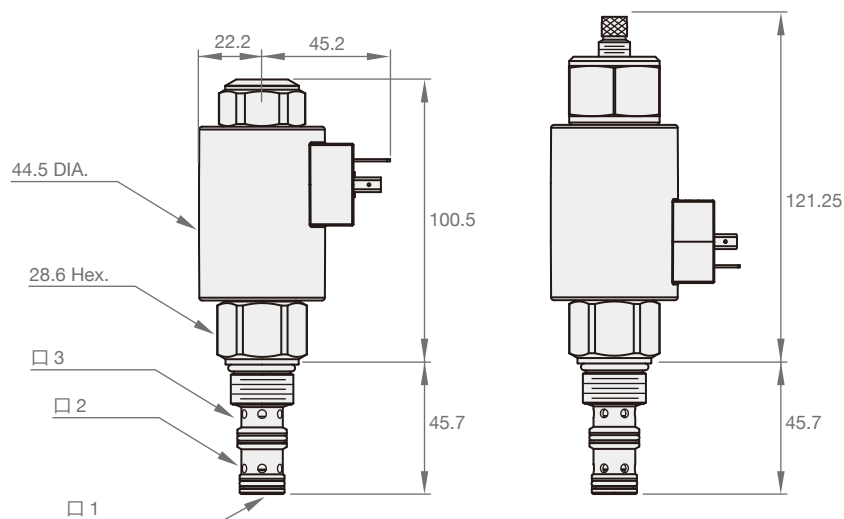
► 調整流量 vs. 壓降 Regulated Flow vs. Pressure Drop

二口, 240 bar / 3500 psi 進油口壓力, 12V 線圈, 110 Hz PWM
2-Ported, 240 bar / 3500 psi Inlet, 12V Coil, 110 Hz PWM



尺寸 DIMENSION

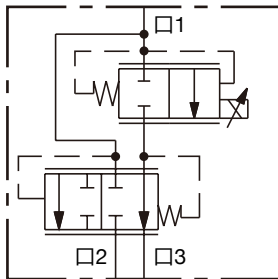
(單位 unit : mm)



SPV72-30



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-3
流量 Capacity (l/min)	57
操作壓力 Operating Pressure (bar)	□1 : 240, □2 : 207, □3 : 207
內洩量 Internal Leakage	0.38 lpm, 207 bar 全閉情況下 0.38 lpm, fully closed at 207 bar
安裝扭力 Installation Torque (Nm)	47.4
可調流量範圍 Regulated Flow Rate	在第三口 : 57 lpm (15 gpm) in 3-port mode : 57 lpm (15 gpm)
最大進入口流量 Max. Input Flow	在第三口 : 114 lpm (30 gpm) in 3-port mode : 114 lpm (30 gpm)
最大流量 Max. Flow	在第二口 : 53 lpm (14 gpm) in 2-port mode : 53 lpm (14 gpm)
臨界點電流 Threshold Current	D1 : 350 ± 100 mA D2 : 175 ± 50 mA
最大控制電流 Max. Control Current	D1 : 1600 ± 200 mA D2 : 800 ± 100 mA
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.70

採購選型 ORDER CODE

SPV **72** - **30** **A** **M** - **D2** - **DG** - **N**

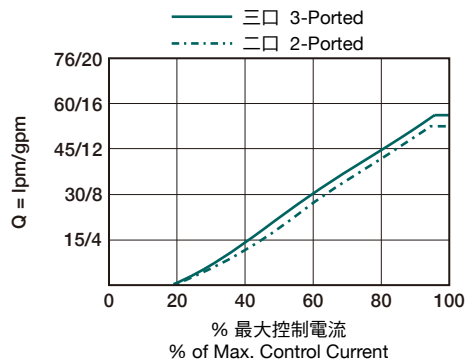
1 2 3 4 5 6 7

1 ▶ 閥規格大小 Valve Size	72
2 ▶ 型號 Model Name	SPV-30
3 ▶ 流量範圍 Flow Range	A 57 l/min (15 gpm)
4 ▶ 控制方式 Control Manner	空白 無手動操控 none without manual override
	M 手動操控 manual override
5 ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC
	D2 直流電 24 VDC
6 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
7 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N
	V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 流量 vs. 電流 Flow vs. Current

207 bar / 3000 psi, 12V 線圈, 110 Hz PWM

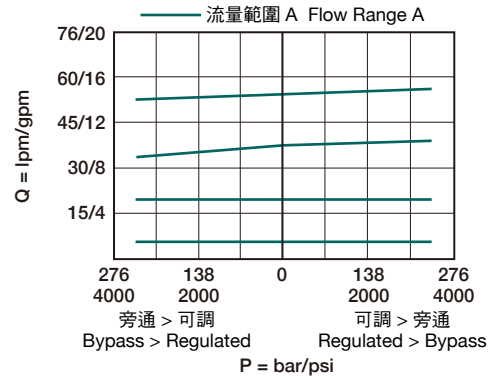


* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

► 調整流量 vs. 壓降 Regulated Flow vs. Pressure Drop

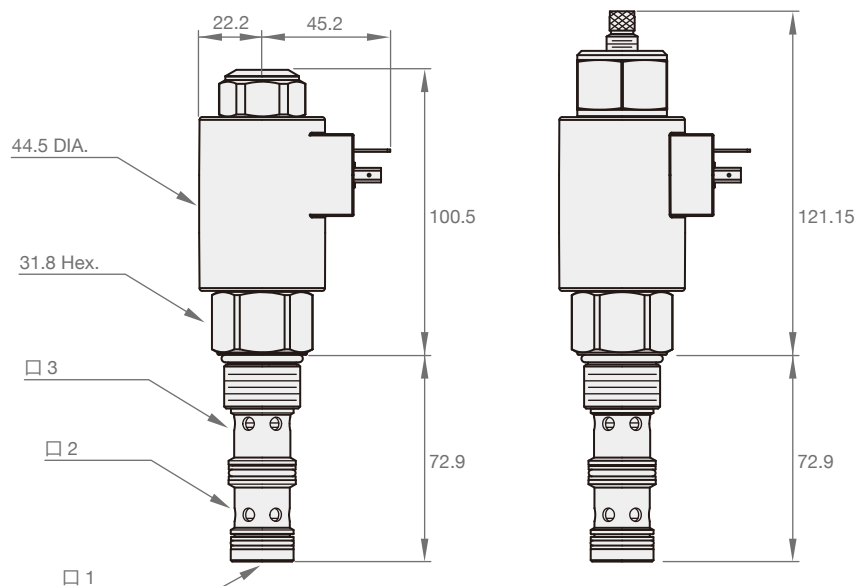
12V 線圈, 110 Hz PWM, 進口流量 : 76 lpm/20 gpm

12V Coil, 110 Hz PWM, Input Flow : 76 lpm/20 gpm



尺寸 DIMENSION

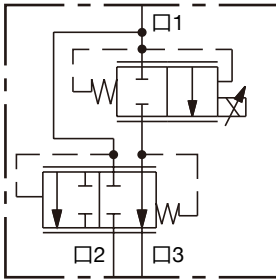
(單位 unit : mm)



SPV76-30



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-16-3
流量 Capacity (l/min)	151
操作壓力 Operating Pressure (bar)	□1 : 240, □2 : 207, □3 : 207
內洩量 Internal Leakage	0.38 lpm, 電流為0 0.38 lpm, at zero current
安裝扭力 Installation Torque (Nm)	67.8
可調流量範圍 Regulated Flow Rate	三口: 94.6 lpm (25.0 gpm) 二口: 85.2 lpm (22.5 gpm) 3-ported: 94.6 lpm (25.0 gpm) 2-ported: 85.2 lpm (22.5 gpm)
最大進入口流量 Max. Input Flow	旁通全開，三口：151.4 lpm (40.0 gpm) bypass open, 3-ported : 151.4 lpm (40.0 gpm)
名義上進口流量	旁通全開，三口：121 lpm (32.0 gpm) bypass open, 3-ported: 121 lpm (32.0 gpm)
臨界點電流 Threshold Current	D1 : 300 ± 100 mA D2 : 150 ± 50 mA
最大控制電流 Max. Control Current	D1 : 1600 ± 100 mA D2 : 800 ± 50 mA
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.88

採購選型 ORDER CODE

SPV **76** - **30** **A** - **D1** - **DG** - **N**

1 2 3 4 5 6

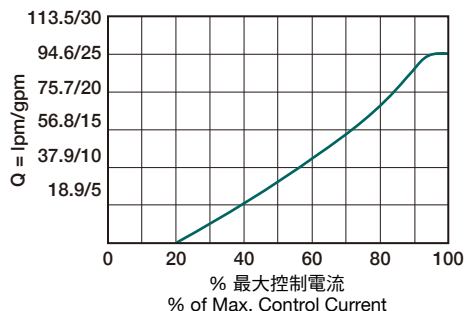
1 ▶ 閥規格大小 Valve Size	76
2 ▶ 型號 Model Name	SPV-30
3 ▶ 流量範圍 Flow Range	A 57 l/min (15 gpm)
4 ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC D2 直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
6 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N V 氟橡膠 viton

曲線 PERFORMANCE CURVES

▶ 三位閥 調整流量 vs. 電流

3-way Valve, Regulated Flow vs. Current

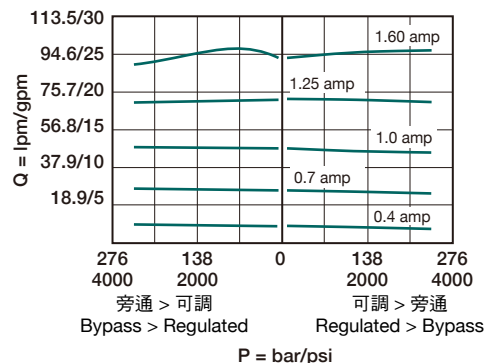
240 bar / 3500 psi 進油口壓力，
207 bar / 3000 psi 在口3，口2無負載，12V 線圈，110 Hz PWM
240 bar / 3500 psi Inlet,
207 bar / 3000 psi at Port 3, No Load at Port 2, 12V Coil, 110 Hz PWM



▶ 三位閥 調整流量 vs. 負載

3-way Valve, Regulated Flow vs. Load

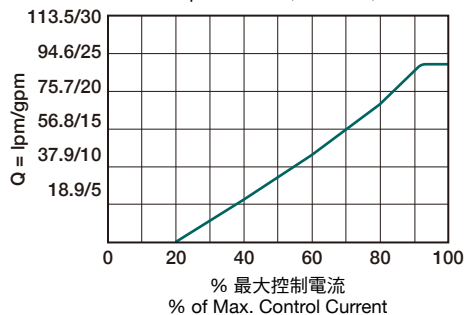
240 bar / 3500 psi，
121 lpm / 32 gpm 進油口，12V 線圈，110 Hz PWM
240 bar / 3500 psi,
121 lpm / 32 gpm Inlet, 12V Coil, 110 Hz PWM



▶ 二位閥 調整流量 vs. 電流

2-way Valve, Regulated Flow vs. Current

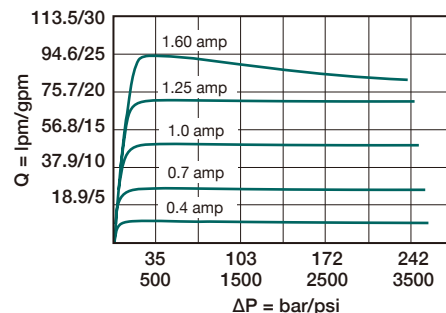
240 bar / 3500 psi 進油口壓力，
207 bar / 3000 psi 在口3，12V 線圈，110 Hz PWM
240 bar / 3500 psi Inlet,
207 bar / 3000 psi at Port 3, 12V Coil, 110 Hz PWM



▶ 二位閥 調整流量 vs. 壓降

2-way Valve, Regulated Flow vs. Pressure Drop

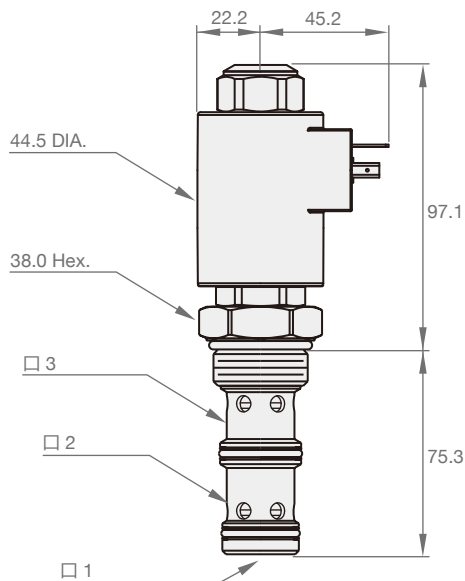
240 bar / 3500 psi，12V 線圈，110 Hz PWM
240 bar / 3500 psi, 12V Coil, 110 Hz PWM



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

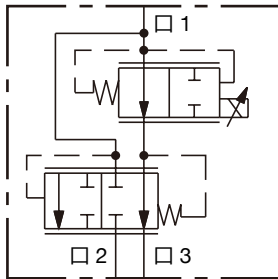
(單位 unit : mm)



SPV70-31



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
流量 Capacity (l/min)	30
操作壓力 Operating Pressure (bar)	□1 : 240, □2 : 207, □3 : 207
內洩量 Internal Leakage	197 cc/min, 207 bar 全閉情況下 197 cc/min, fully closed at 207 bar
安裝扭力 Installation Torque (Nm)	36.7
可調流量範圍 Regulated Flow Rate	旁通阻閉 : 26 lpm (7 gpm) 旁通全開 : 30 lpm (8 gpm) bypass blocked : 26 lpm (7 gpm) bypass open : 30 lpm (8 gpm)
最大進入口流量 Max. Input Flow	旁通全開 : 50 lpm (13 gpm) bypass open : 50 lpm (13 gpm)
臨界點電流 Threshold Current	D1 : 150 ± 70 mA D2 : 75 ± 35 mA
最大控制電流 Max. Control Current	D1 : 1400 ± 200 mA D2 : 700 ± 100 mA
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.53

採購選型 ORDER CODE

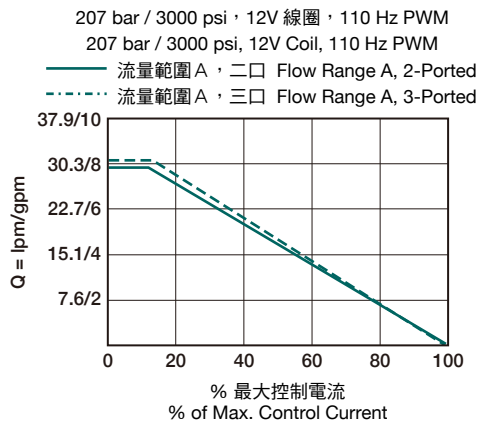
SPV **70** - **31** **A** - **D2** - **DG** - **N**

1 2 3 4 5 6

1 ▶ 閥規格大小 Valve Size	70
2 ▶ 型號 Model Name	SPV-31
3 ▶ 流量範圍 Flow Range	A 30 l/min (8 gpm)
4 ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC D2 直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
6 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N V 氟橡膠 viton

曲線 PERFORMANCE CURVES

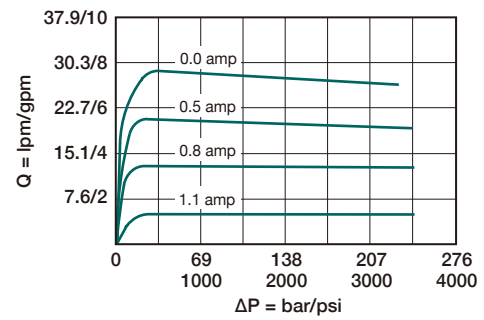
► 流量 vs. 電流 Flow vs. Current



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

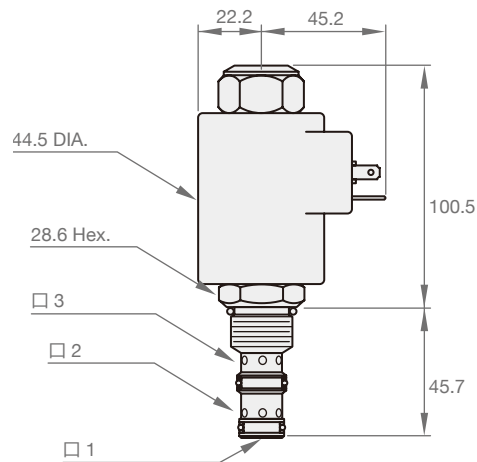
► 調整流量 vs. 壓降 Regulated Flow vs. Pressure Drop

二口, 240 bar / 3500 psi 進油口壓力, 12V 線圈, 110 Hz PWM
2-Ported, 240 bar / 3500 psi, 12V Coil, 110 Hz PWM



尺寸 DIMENSION

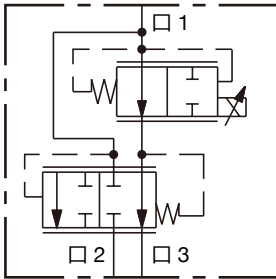
(單位 unit : mm)



SPV72-31



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-3
流量 Capacity (l/min)	53
操作壓力 Operating Pressure (bar)	□1 : 240, □2 : 207, □3 : 207
內洩量 Internal Leakage	0.38 lpm, 207 bar 全閉情況下 0.38 lpm, fully closed at 207 bar
安裝扭力 Installation Torque (Nm)	47.4
可調流量範圍 Regulated Flow Rate	在第三口 : 57 lpm (15 gpm) in 3-port mode : 57 lpm (15 gpm)
最大進入口流量 Max. Input Flow	在第三口 : 114 lpm (30 gpm) in 3-port mode : 114 lpm (30 gpm)
最大流量 Max. Flow Rate	在第二口 : 42 lpm (11 gpm) in 2-port mode : 42 lpm (11 gpm)
臨界點電流 Threshold Current	D1 : 150 ± 100 mA D2 : 75 ± 50 mA
最大控制電流 Max. Control Current	D1 : 1350 ± 150 mA D2 : 675 ± 75 mA
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.70

採購選型 ORDER CODE

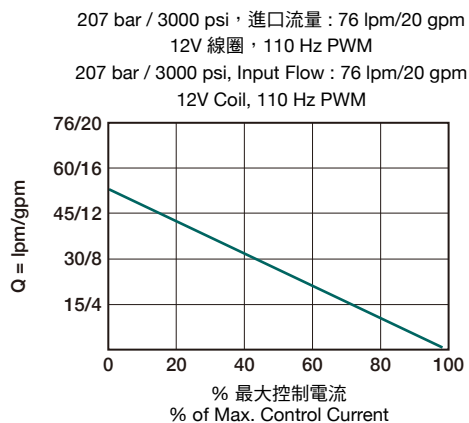
SPV **72** - **31** **A** - **D1** - **DG** - **N**

1 2 3 4 5 6

1 ▶ 閥規格大小 Valve Size	72
2 ▶ 型號 Model Name	SPV-31
3 ▶ 流量範圍 Flow Range	A 53 l/min (14 gpm)
4 ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC D2 直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
6 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N V 氟橡膠 viton

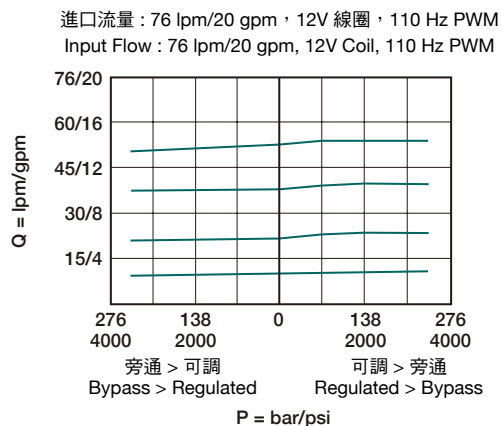
曲線 PERFORMANCE CURVES

► 流量 vs. 電流 Flow vs. Current



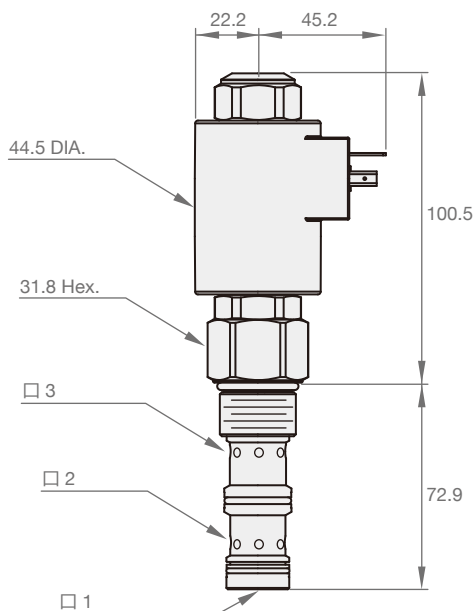
* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

► 調整流量 vs. 壓降 Regulated Flow vs. Pressure Drop



尺寸 DIMENSION

(單位 unit : mm)



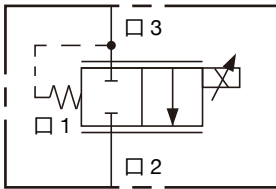
SPV72-33



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-3
流量 Capacity (l/min)	76
操作壓力 Operating Pressure (bar)	240
最大流量	76 lpm / 20 gpm
內洩量 Internal Leakage	492 cc/min, 207 bar 全閉情況下 492 cc/min, fully closed at 207 bar
安裝扭力 Installation Torque (Nm)	47.4
臨界點電流 Threshold Current	D1 : 300 ± 70 mA D2 : 150 ± 35 mA
最大控制電流 Max. Control Current	D1 : 1500 ± 100 mA D2 : 750 ± 100 mA
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.77

符號 SYMBOL



採購選型 ORDER CODE

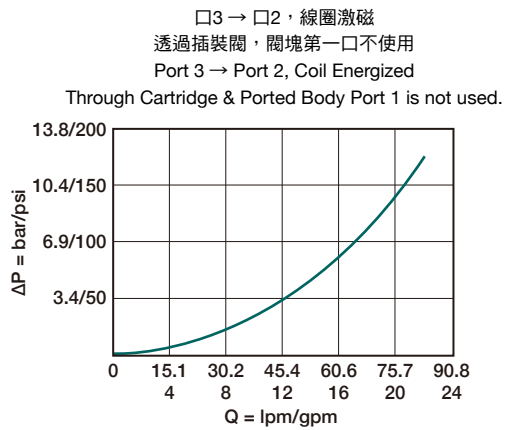
SPV **72** - **33** **A** - **D1** - **DG** - **N**

1 2 3 4 5 6

1 ▶ 閥規格大小 Valve Size	72
2 ▶ 型號 Model Name	SPV-33
3 ▶ 流量範圍 Flow Range	A 76 l/min (20 gpm)
4 ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC D2 直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
6 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N V 氟橡膠 viton

曲線 PERFORMANCE CURVES

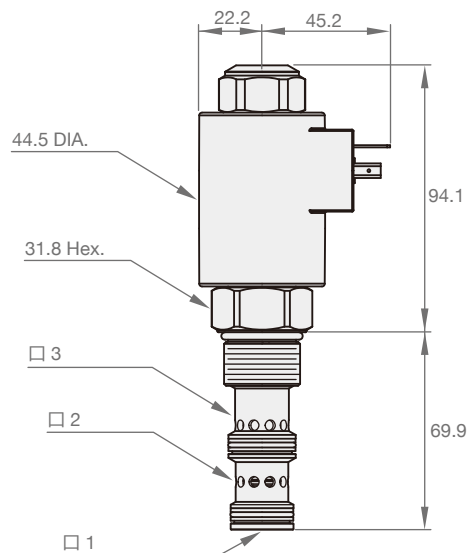
► 壓降 vs. 流量 Pressure Drop vs. Flow



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

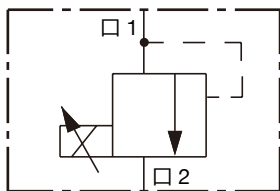
(單位 unit : mm)



STS38-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	A : 11.4 @ 20 bar B : 11.4 @ 10 bar C : 11.4 @ 5.5 bar
使用壓力 Pressure Rating (bar)	248.2
耐壓 Proof Pressure (bar)	268.9
爆破壓力 Burst Pressure (bar)	751.5
顫震頻率 Dither Frequency	200 Hz 或更高
磁滯在顫震頻率250Hz情況下 Hysteresis with Dither 250 Hz	3.3% (最大7%, 不使用顫震情況下) 3.3% (7% max. without dither)
從0到最大電流時的操作溢流壓力範圍 Operating Relief Pressure Range from Zero to Max. Control Current	A : 0 ~ 207 bar B : 0 ~ 138 bar C : 0 ~ 69 bar
內洩量 Internal Leakage	最大1 ml/min, 在 207 bar 情況下 1 ml/min max, at 207 bar
安裝扭力 Installation Torque (Nm)	33.9 ~ 36.6
20°C時的典型電阻 Typical Resistance at 20°C (Ω)	D1 : 7.2 ± 3%, D2 : 28.8 ± 5%
閥-電感 Valve Inductance (Mh)	D1 : 141, D2 : 626
最大控制電流 Max. Control Current (A)	D1 : 1.10, D2 : 0.55
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.45

採購選型 ORDER CODE

STS **38** - **20** **A** - **D1** - **DG** - **N**

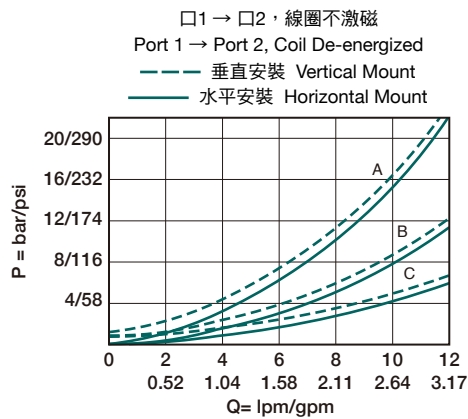
1 2 3 4 5 6

1 ▶	閥規格大小 Valve Size	38
2 ▶	型號 Model Name	STS-20
3 ▶	最大溢流壓力 Max. Relief Pressure	A 207 bar (3000 psi) B 138 bar (2000 psi) C 69 bar (1000 psi)

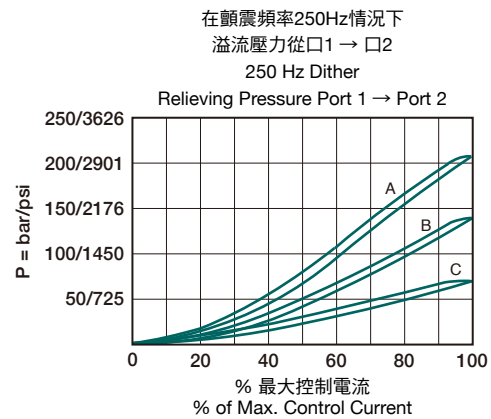
4 ▶	電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC D2 直流電 24 VDC
5 ▶	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
6 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N V 氟橡膠 viton

曲線 PERFORMANCE CURVES

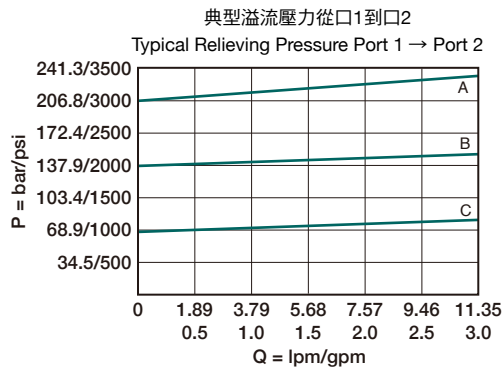
▶ 壓降 vs. 流量 Pressure Drop vs. Flow



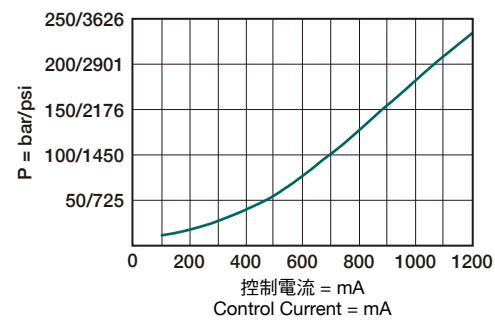
▶ 溢流壓力 vs. 電流 Relief Pressure vs. Current



▶ 典型溢流壓力 vs. 流量 Typical Relief Pressure vs. Flow



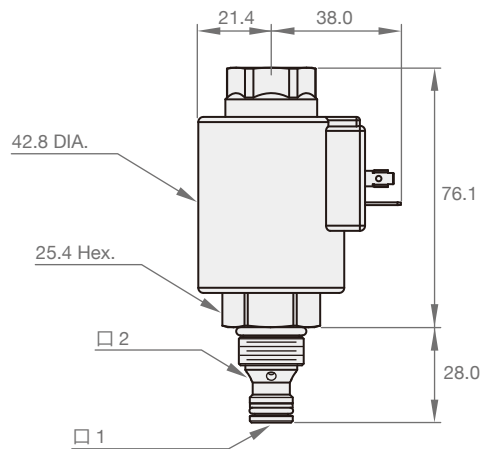
▶ 溢流壓力 vs. 電流 Relief Pressure vs. Current



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

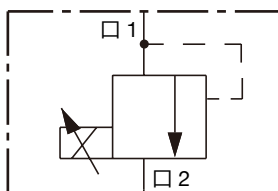
(單位 unit : mm)



STS58-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	40 : 7.57 50 : 7.57
最大操作壓力 Max. Operating Pressure	345 bar
最大T口壓力 Max. Tank Port Pressure	69 bar
顫震頻率 Dither Frequency	200 Hz 或更高 200 Hz or higher
磁滯在顫震頻率200Hz情況下 Hysteresis with Dither 200 Hz	3.5% (最大7% , 不使用顫震情況下) 3.5% (7% max. without dither)
溢流壓力範圍 Relief Pressure Range (bar)	40 : 0 ~ 276 50 : 0 ~ 345
內洩量 Internal Leakage	4.5 ml/min max, 在 207 bar 情況下 4.5 ml/min max, at 207 bar
安裝扭力 Installation Torque (Nm)	33.9 ~ 36.6
最大控制電流 Max. Control Current (A)	D1 :1.10 D2 : 0.55
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.45

採購選型 ORDER CODE

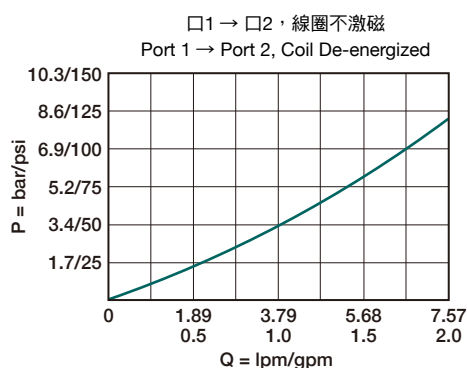
STS **58** - **20** **A** - **D1** - **DG** - **N**

1 2 3 4 5 6

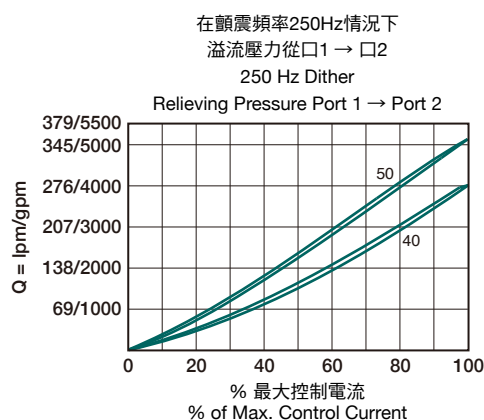
1 ▶	閥規格大小 Valve Size	58
2 ▶	型號 Model Name	STS-20
3 ▶	最大溢流壓力 Max. Relief Pressure	40 276 bar (4000 psi) 50 345 bar (5000 psi)
4 ▶	電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC D2 直流電 24 VDC
5 ▶	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
6 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N V 氟橡膠 viton

曲線 PERFORMANCE CURVES

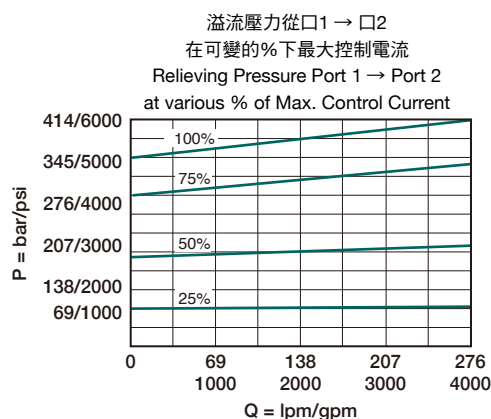
► 壓降 vs. 流量 Pressure Drop vs. Flow



► 溢流壓力 vs. 電流 Relief Pressure vs. Current



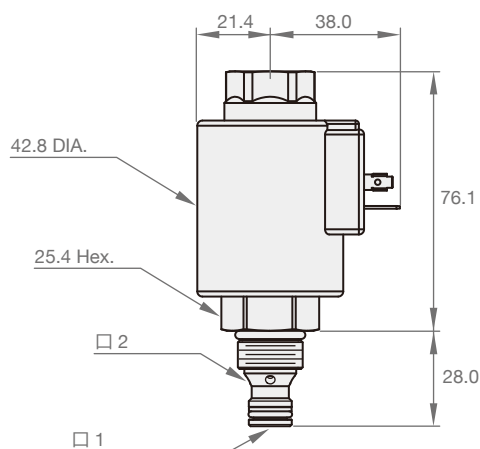
► 典型溢流壓力 vs. 流量 Typical Relief Pressure vs. Flow



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

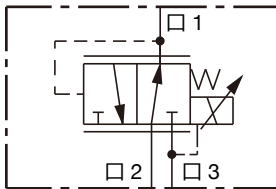
(單位 unit : mm)



STS10-36



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
流量 Capacity (l/min)	57 lpm (15 gpm) 只有插裝閥 □ 1 → □ 3, 線圈不激磁 57 lpm (15 gpm) cartridge only, Port 1 → Port 3, coil de-energized
操作壓力 Operating Pressure (bar)	241
最大先導流量 Max. Pilot Flow	0.21 lpm (0.08 gpm)
從0到最大電流時的溢流壓力範圍 Relief Pressure Range from Zero to Max. Control Current	A : 6.9 ~ 207 bar (100 ~ 3000 psi) B : 6.9 ~ 159 bar (100 ~ 2300 psi)
安裝扭力 Installation Torque (Nm)	32.5 ~ 35.3
20°C時的典型電阻 Typical Resistance at 20°C (Ω)	D1 : 7.25 ± 5% D2 : 7.30 ± 5%
典型視在電感 Typical Apparent Inductance (mH)	D1 : 141 D2 : 626
典型最大電流 在0加侖時 Typical Max. Current at 0 gpm (A)	D1 : 1.10 D2 : 0.55
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.54

採購選型 ORDER CODE

STS **10** - **36** **A** - **D1** - **DG** - **N**

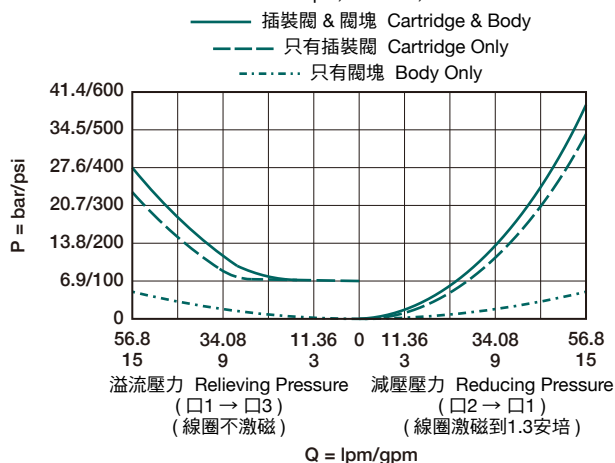
1 2 3 4 5 6

1 ▶ 閥規格大小 Valve Size	10
2 ▶ 型號 Model Name	STS-36
3 ▶ 最大溢流壓力 Max. Relief Pressure	A 207 bar (3000 psi) B 159 bar (2300 psi)
4 ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC D2 直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
6 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N V 氟橡膠 viton

曲線 PERFORMANCE CURVES

▶ 典型壓降 vs. 流量 Typical Pressure Drop vs. Flow

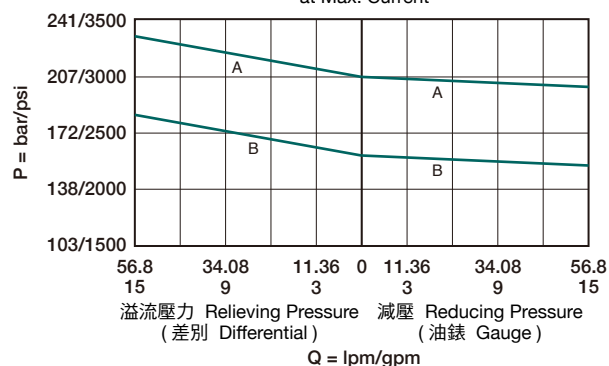
207 bar / 3000 psi, 12V 線圈, 110 Hz PWM
207 bar / 3000 psi, 12V Coil, 110 Hz PWM



▶ 減洩壓壓力 vs. 流量

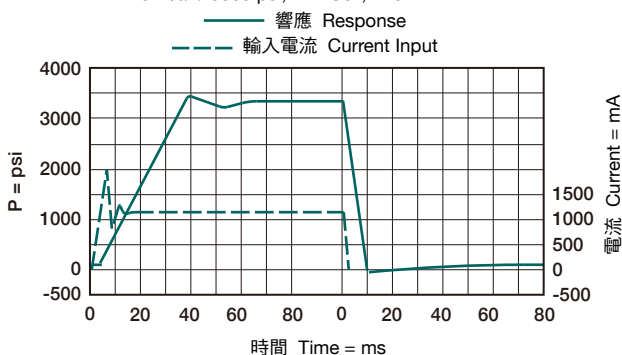
Typical Relieving/Reducing Pressure vs. Flow

在最大電流下
at Max. Current



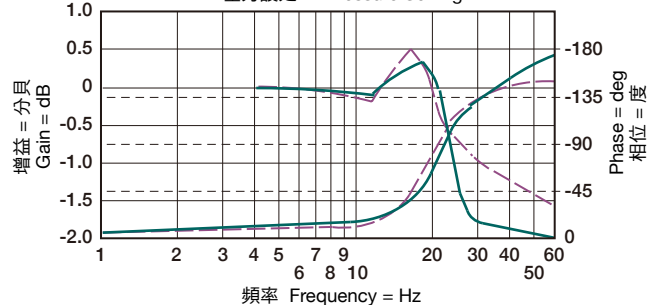
▶ 躍階響應 Typical Step Response

207 bar / 3000 psi, 12V 線圈, 110 Hz PWM
207 bar / 3000 psi, 12V Coil, 110 Hz PWM



▶ 響應頻率 Typical Frequency Response

壓力設定 A Pressure Setting A
壓力設定 B Pressure Setting B

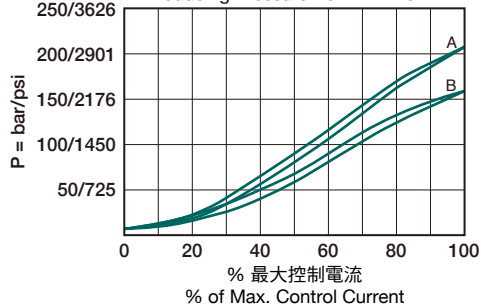


▶ 溢流壓力 vs. 電流 (DC) 200Hz 顫震頻率

Relief Pressure vs. Current (DC) 200 Hz Dither

減壓壓力從 口2 → 口1

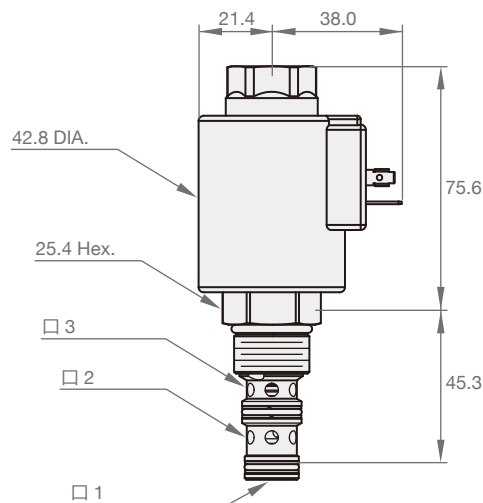
Reducing Pressure Port 2 → Port 1



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



HSP08-47C



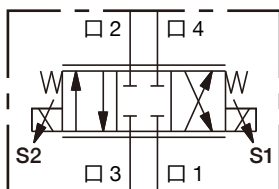
規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-4
流量 Capacity (l/min)	11.4 ^{*1}
操作壓力 Operating Pressure (bar)	240
磁滯 Hysteresis	少於7% less than 7%
線圈額定值 Coil Duty Rating	持續可達 115% 標稱電壓 continuous up to 115% of nominal voltage
內洩量 Internal Leakage	最大164 cc/min., 每側在 207 bar 164 cc/min. max. per side at 207 bar
安裝扭力 Installation Torque (Nm)	24.4 ~ 27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.74

*1 流量基於工作期間 50% 和 20°C (140°F) 的線圈溫度。如果預計會有更高的工作期間和線圈溫度，請諮詢工廠。

*1 Flow rate is based on 50% duty cycle and coil temperature of 20°C (140°F). Consult factory if higher duty cycle and coil temperatures are anticipated.

符號 SYMBOL



採購選型 ORDER CODE

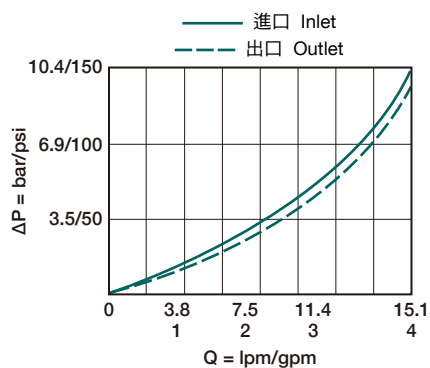
HSP **08** - **47C** - **D1** - **DG** - **N**

1 2 3 4 5

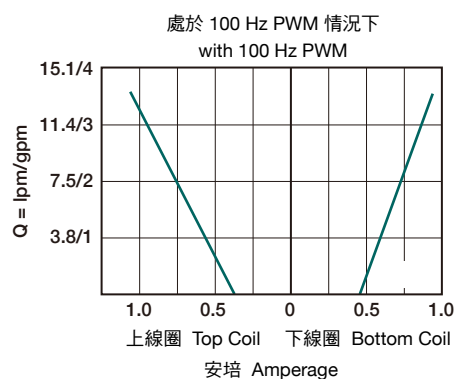
1	閥規格大小 Valve Size	08
2	型號 Model Name	HSP-47C
3	電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

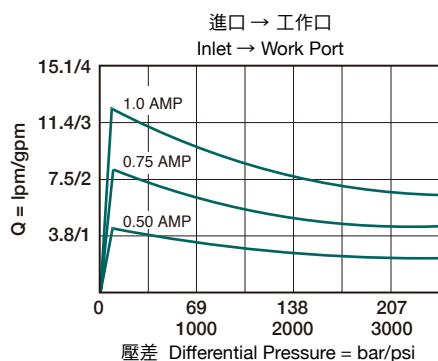
▶ 壓力 vs. 流量 Pressure vs. Flow



▶ 流量 vs. 安培 Flow vs. Amperage



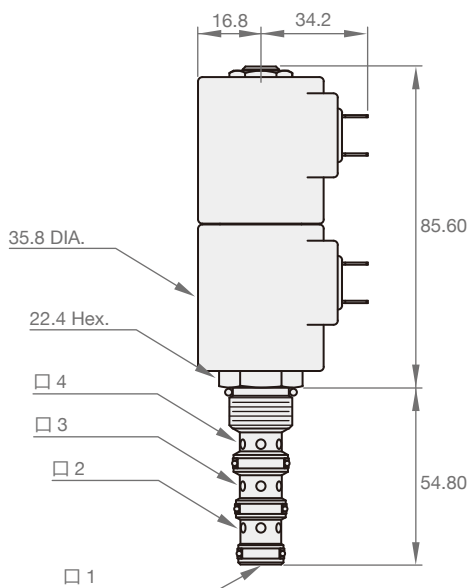
▶ 壓力補償 Pressure Compensation



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



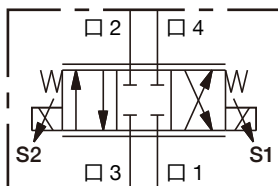
HSP10-47C



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-4
流量 Capacity (l/min)	22.7
操作壓力 Operating Pressure (bar)	248
磁滯 Hysteresis	少於7% less than 7%
線圈額定值 Coil Duty Rating	持續可達 115% 標稱電壓 continuous up to 115% of nominal voltage
內洩量 Internal Leakage	最大164 cc/min. 每側在 248 bar 164 cc/min. max. per side at 248 bar
安裝扭力 Installation Torque (Nm)	32.5 ~ 35.3
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	1.45

符號 SYMBOL



採購選型 ORDER CODE

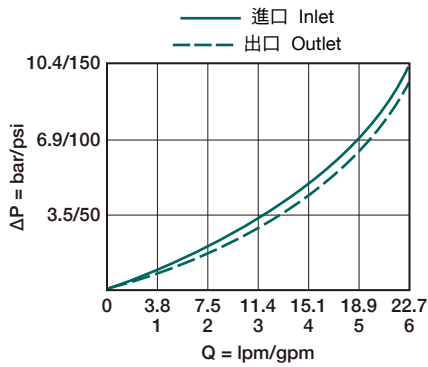
HSP **10** - **47C** - **D2** - **DG** - **N**

① ② ③ ④ ⑤

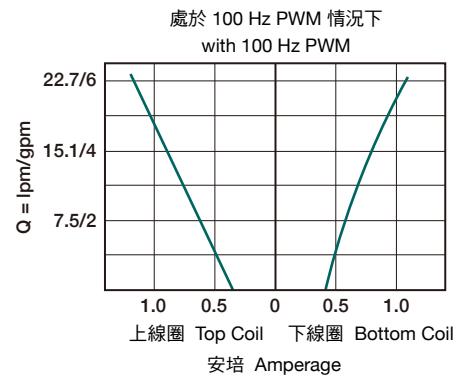
① ▶ 閥規格大小 Valve Size	10
② ▶ 型號 Model Name	HSP-47C
③ ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC
	D2 直流電 24 VDC
④ ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
⑤ ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N
	V 氟橡膠 viton

曲線 PERFORMANCE CURVES

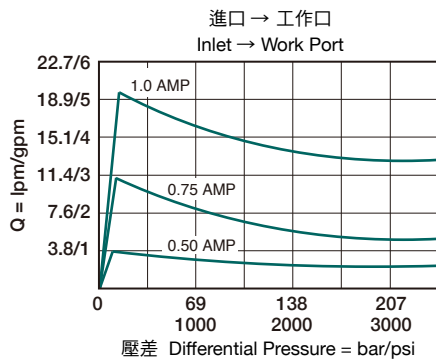
▶ 壓力 vs. 流量 Pressure vs. Flow



▶ 流量 vs. 安培 Flow vs. Amperage



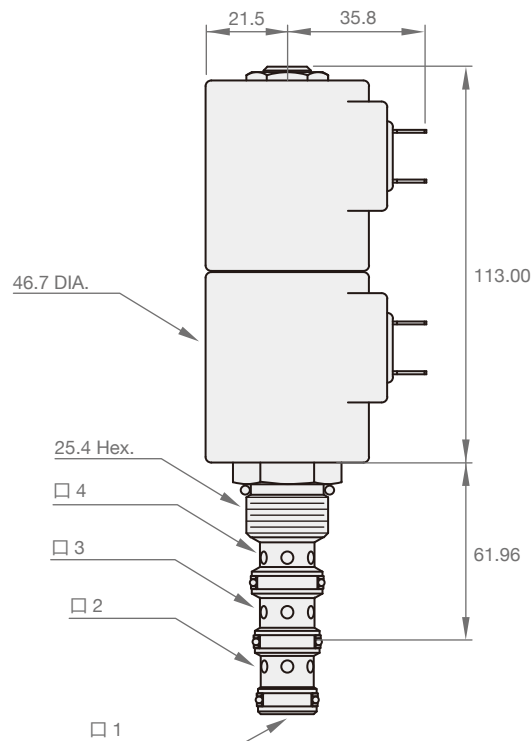
▶ 壓力補償 Pressure Compensation



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



HSP08-47D



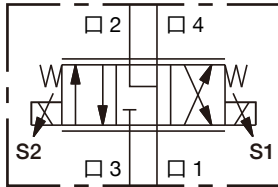
規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-4
流量 Capacity (l/min)	11.4 ^{*1}
操作壓力 Operating Pressure (bar)	240
磁滯 Hysteresis	少於7% less than 7%
線圈額定值 Coil Duty Rating	持續可達 115% 標稱電壓 continuous up to 115% of nominal voltage
內洩量 Internal Leakage	最大328 cc/min. 每側在 207 bar 328 cc/min. max. per side at 207 bar
安裝扭力 Installation Torque (Nm)	24.4 ~ 27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.74

*1 流量基於工作期間 50% 和 20°C (140°F) 的線圈溫度。如果預計會有更高的工作期間和線圈溫度，請諮詢工廠。

*1 Flow rate is based on 50% duty cycle and coil temperature of 20°C (140°F). Consult factory if higher duty cycle and coil temperatures are anticipated.

符號 SYMBOL



採購選型 ORDER CODE

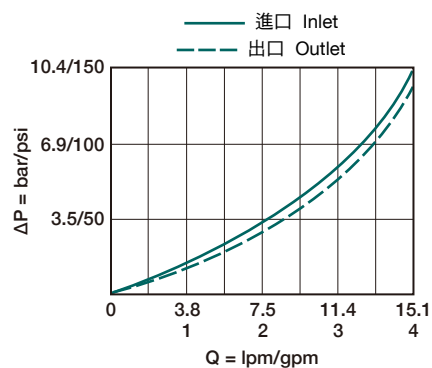
HSP **08** - **47D** - **D1** - **DG** - **N**

1 2 3 4 5

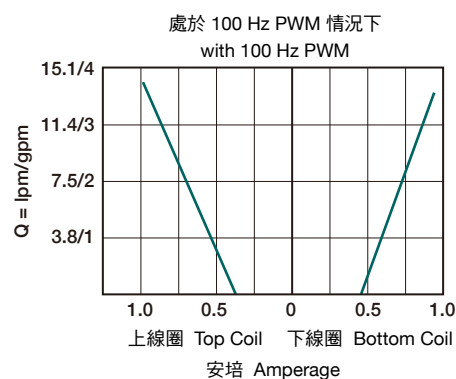
1	閥規格大小 Valve Size	08
2	型號 Model Name	HSP-47D
3	電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N V 氟橡膠 viton

曲線 PERFORMANCE CURVES

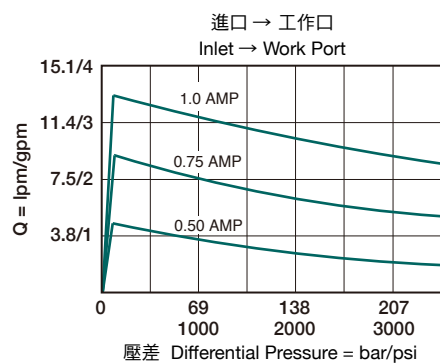
▶ 壓力 vs. 流量 Pressure vs. Flow



▶ 流量 vs. 安培 Flow vs. Amperage



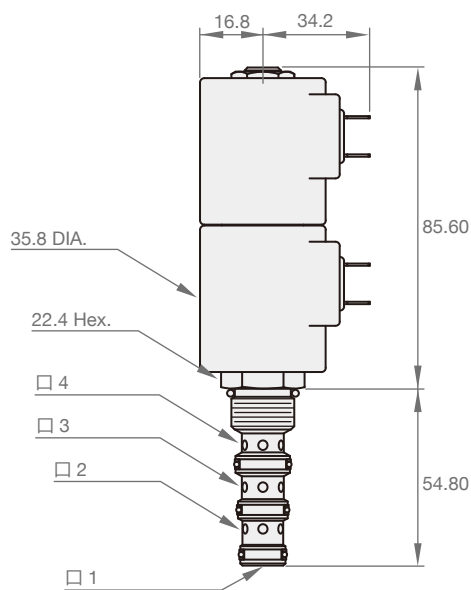
▶ 壓力補償 Pressure Compensation



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



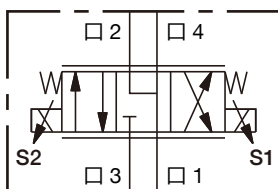
HSP10-47D



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-4
流量 Capacity (l/min)	22.7
操作壓力 Operating Pressure (bar)	207
磁滯 Hysteresis	少於7% less than 7%
線圈額定值 Coil Duty Rating	持續可達 115% 標稱電壓 continuous up to 115% of nominal voltage
內洩量 Internal Leakage	最大246 cc/min. 每側在 207 bar 246 cc/min. max. per side at 207 bar
安裝扭力 Installation Torque (Nm)	32.5 ~ 35.3
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	1.45

符號 SYMBOL



採購選型 ORDER CODE

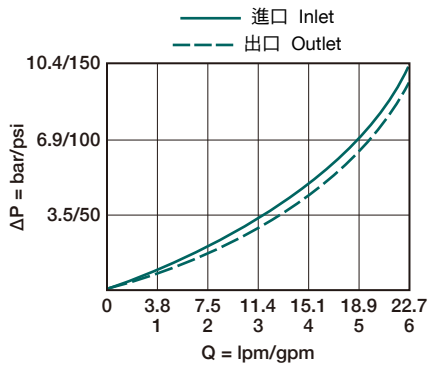
HSP **10** - **47D** - **D2** - **DG** - **N**

1 2 3 4 5

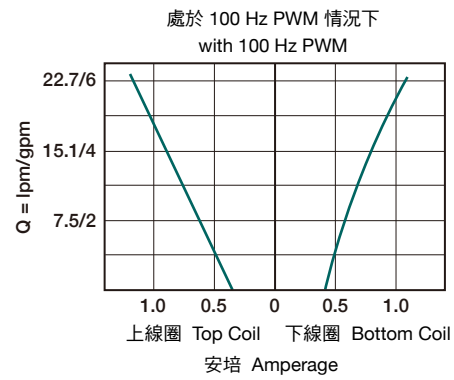
1 ▶ 閥規格大小 Valve Size	10
2 ▶ 型號 Model Name	HSP-47D
3 ▶ 電壓 (線圈) Voltage (coil)	D1 直流電 12 VDC
	D2 直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
5 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N
	V 氟橡膠 viton

曲線 PERFORMANCE CURVES

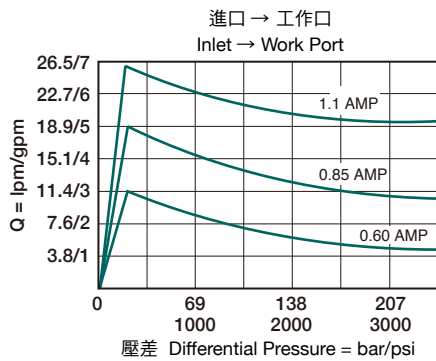
▶ 壓力 vs. 流量 Pressure vs. Flow



▶ 流量 vs. 安培 Flow vs. Amperage



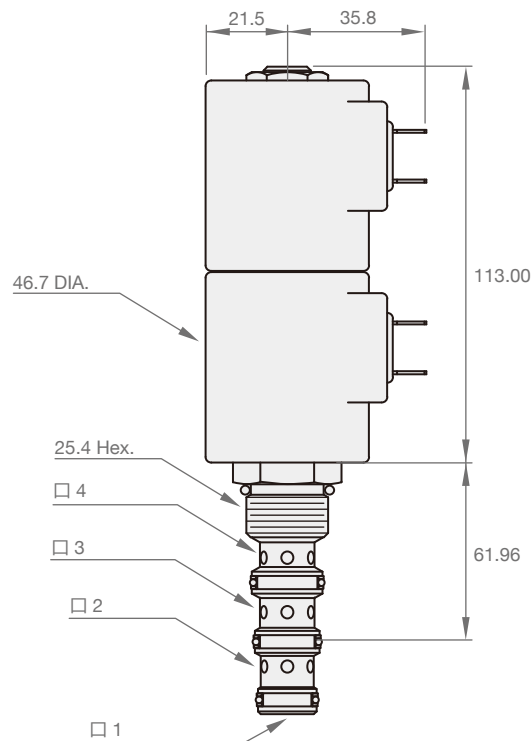
▶ 壓力補償 Pressure Compensation



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



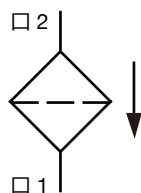
FL2A, FL3A, FL6A, FL8A



規格表 MODEL SPEC.

安裝閥孔 Cavity	FL2A : T13A FL3A : T5A FL6A : T16A FLA8 : T18A
流量 Capacity	FL2A : 37.9 l/min / 10 gpm FL3A : 75.7 l/min / 20 gpm FL6A : 151.4 l/min / 40 gpm FL8A : 302.8 l/min / 80 gpm
最大壓力 Max. Pressure	345 bar / 5000 psi
安裝扭力 Installation Torque (Nm)	FL2A : 40/50 FL3A : 60/70 FL6A : 200/215 FL8A : 465/500
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	FL2A : 0.09 FL3A : 0.19 FL6A : 0.315 FL8A : 0.71

符號 SYMBOL

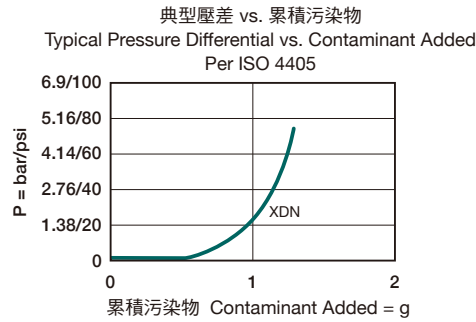
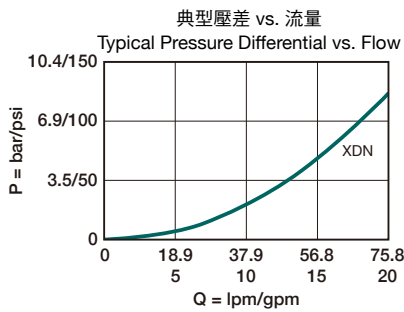


採購選型 ORDER CODE

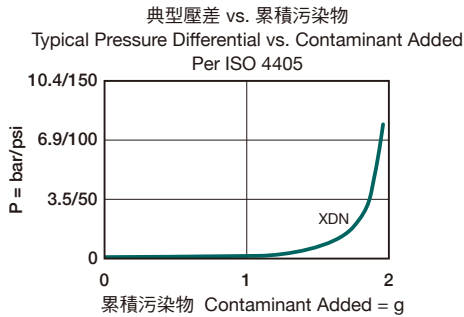
FL	2	A	-	T13A	-	X	D	N
1	2	1		3		4	5	6

1	型號 Model Name	FLA
2	閥規格大小 Valve Size	2, 3, 6, 8
3	安裝閥孔 Cavity	T13A, T5A, T16A, T18A
4	控制方式 Control Manner	X 不可調 unadjustable
5	過濾精度 Filter Rating (FL2A, FL3A)	D 40um (平織式 surface type)
5	過濾精度 Filter Rating (FL6A, FL8A)	D 40um (平織式 surface type)
		A 3um (深摺式 depth type)
		B 10um (深摺式 depth type)
		C 25um (深摺式 depth type)
6	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

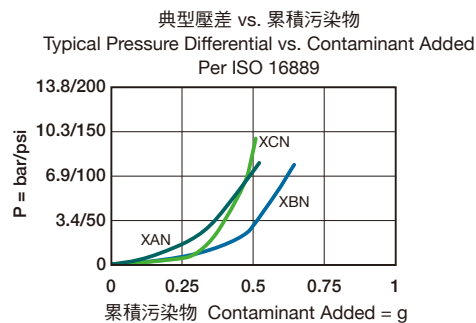
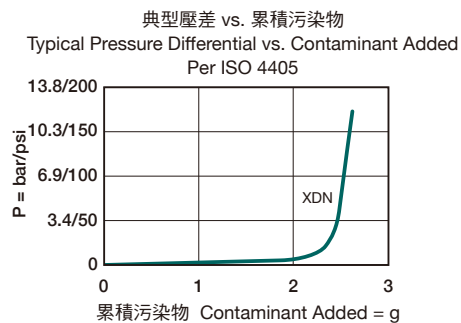
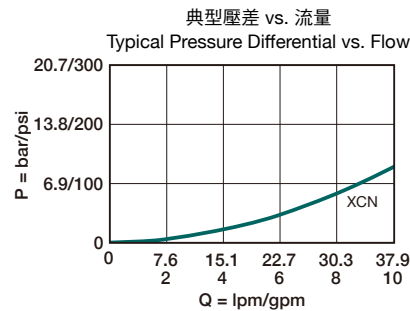
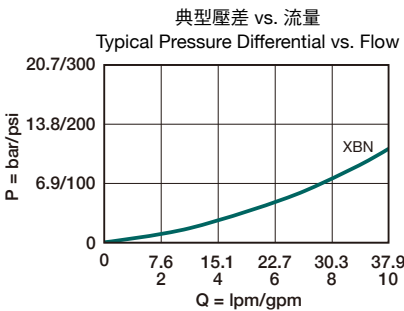
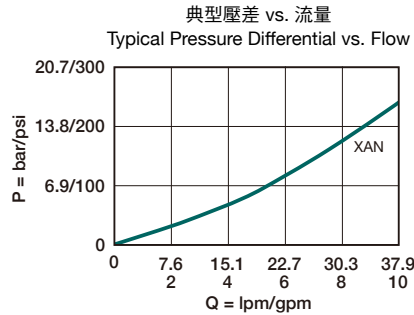
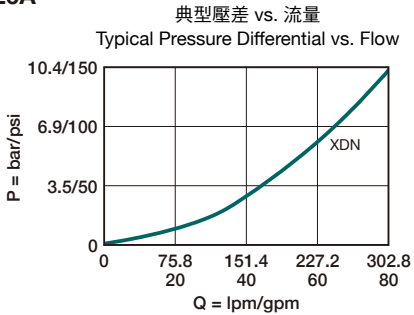
► FL2A



► FL3A

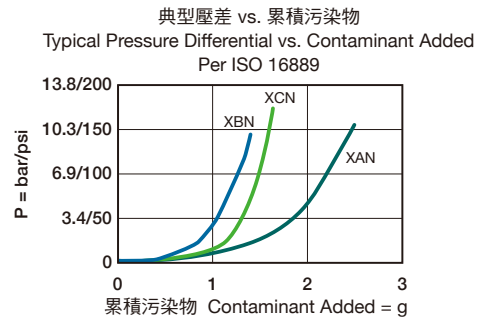
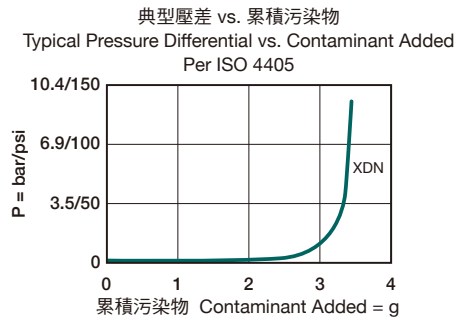
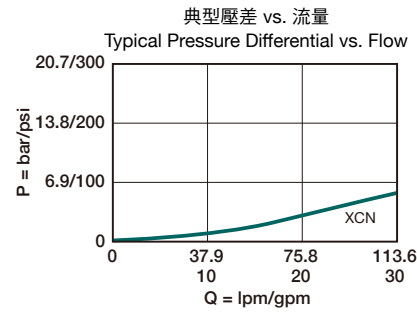
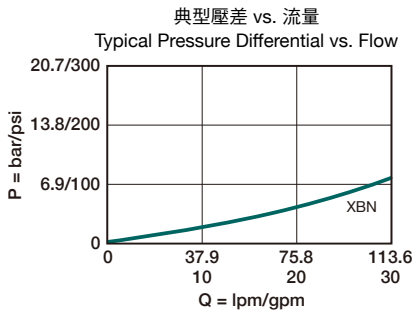
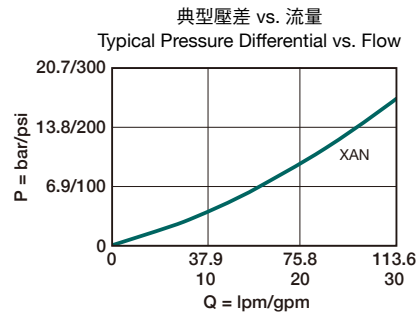
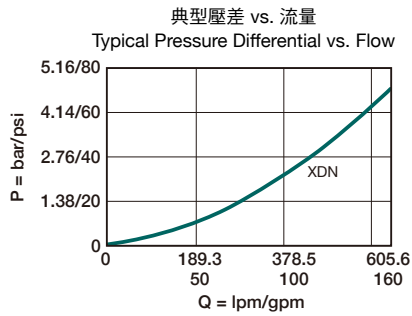


► FL6A



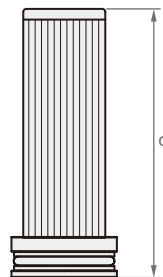
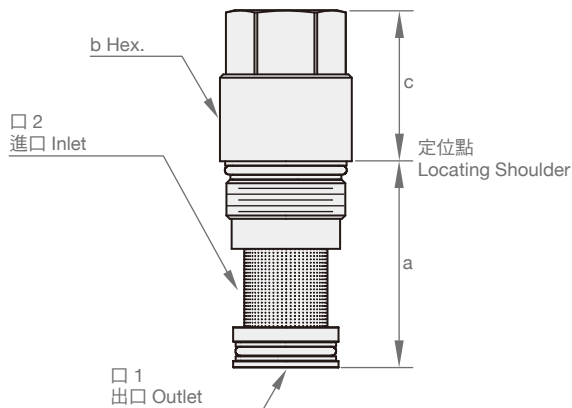
曲線 PERFORMANCE CURVES

► FL8A



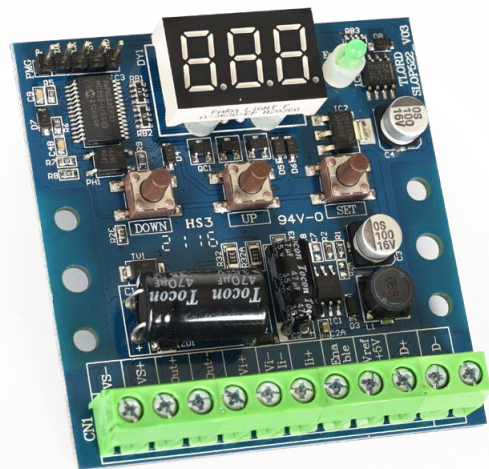
尺寸 DIMENSION

(UNIT : mm)

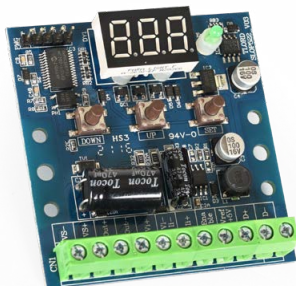


型號 Model	a	b	c	d
FL2A	40.0	22.2	30.7	59.5
FL3A	41.7	28.6	33.3	66.0
FL6A	62.2	31.8	41.4	97.5
FL8A	79.5	41.3	54.1	126

電路板式放大器 Electronic Amplifier P-C Board



SY-DPCA-C-1, SY-DPCA-P-1



特點 FEATURES

1. 精準控制 Precise Control
全數位微電子控制器
Digital microprocessor
2. 簡易操作 Simple Setup
使用數位顯示器和按鍵進行設定
Digital display and buttons
3. 功能完整 Full Function
輸入訊號類型及輸出電流特性均可調整
Adjustable input signal and output current
4. 安全防護 Safety
過壓過載保護、配合故障碼排除問題
Short, open circuit protection with error code

採購選型 ORDER CODE

SY	-	DPCA	-	C	-	1
1		2		3		4

1 ▶ 型號 Model Name	SY	
2 ▶ 控制方式 Control Mode	DPCA	數位式 比例控制器 Digital Proportional Controller
3 ▶ 外殼形式 Type	C	塑膠外殼 可固定於DIN-35滑軌 Case with DIN-35 Rail Clamps
	P	僅印刷電路板 PCB only
4 ▶ 輸出組數 Output	1	單線圈 single coil

規格表 MODEL SPEC.

型號 Model	SY-DPCA-C-1, SY-DPCA-P-1
操作電壓 Operating Voltage	直流電 9 ~ 32VDC
操作電壓範圍 Voltage Tolerance	5%
控制器輸入訊號 Input Signal Options	0~5V, 0~10V, 4~20mA, RS485
輸出電流 Output Current	3A max.
震顫頻率 Dither Frequency	70 ~ 350Hz
斜坡上升及斜坡下降 Ramp Up and Down	0.1 ~ 5.0s
參考電壓輸出 Reference Voltage	5V (max. current 5mA)
通訊介面 Communication Interface	RS485
通訊協定 Communication Protocol	Modbus RTU
工作條件 Operating Conditions	-20 ~ 60°C
重量 Weight	SY-DPCA-C-1 : 0.1kg SY-DPCA-P-1 : 0.06kg

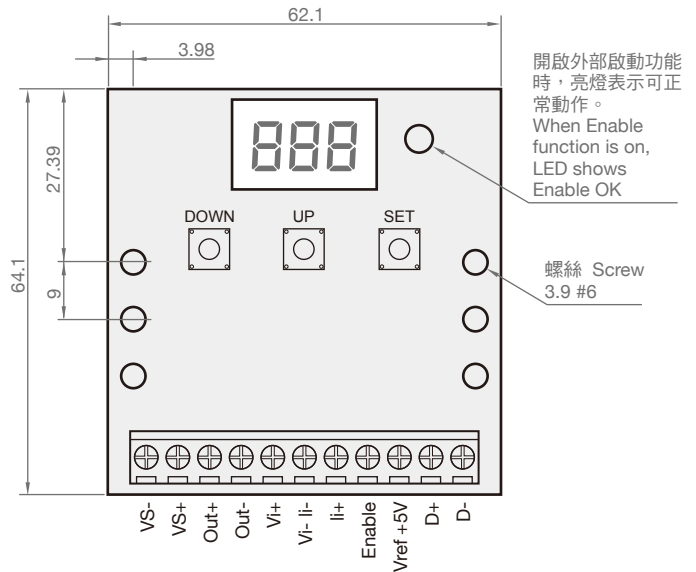
接線說明 Wiring Instruction

1	VS-	電源輸入 - Power-
2	VS+	電源輸入 + Power+
3	Out+	電磁線圈輸出 + Coil+
4	Out-	電磁線圈輸出 - Coil-
5	Vi+	訊號電壓輸入 Input voltage signal
6	Vi- li-	訊號地 Signal ground
7	li+	訊號電流輸入 Input current signal
8	Enable	外部啟動 * Enable *
9	Vref +5V	+5V 參考電壓 +5V Reference voltage
10	D+	RS-485+ (選用 optional)
11	D-	RS-485- (選用 optional)

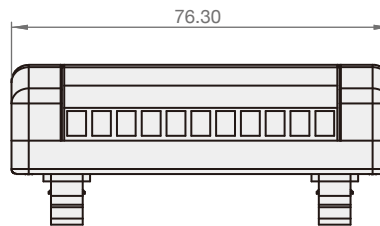
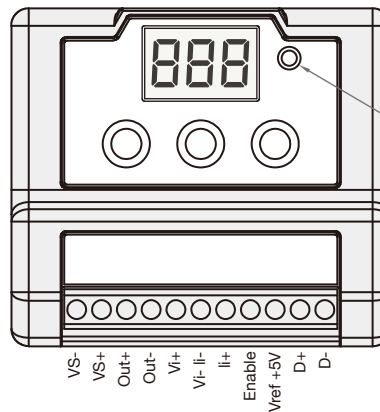
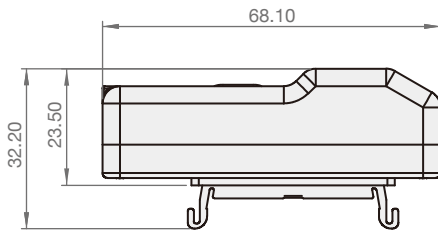
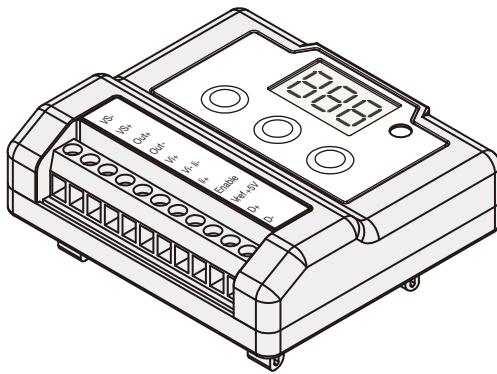
* 軟體預設關閉，若開啟則接訊號地啟動。

* Default off. Ground this pin to enable controller when PEA function is on.

► SY-DPCA-P-1



► SY-DPCA-C-1



This product has been designed and tested to meet specific standards outlined in the European Electromagnetic Compatibility Directive (EMC)2014/30/EU.

本產品設計已通過歐盟電磁相容性指令 (EMC)2014/30/EU 下的具體標準測試。

Emission: EN 61000-6-4:2019

Immunity: EN 61000-6-2:2019; EN 61000-4-2:2009, EN 61000-4-3:2020, EN 61000-4-8:2010

Certificate No. NE1105240044

SY-DPCA-D-P9-1



特點 FEATURES

- 直接安裝於 DIN43650 形式比例閥
Direct assembly on the DIN43650 solenoid valve
- 數位微處理器提供精準控制
Control with digital microprocessor
- 實體顯示器及按鈕便於操作設定
Simple setup via physical screen and button
- 完整電氣保護並以錯誤碼輔助除錯
Short, open circuit protection with error code

採購選型 ORDER CODE

SY - **DPCA** - **D** - **P9** - **1**

1 2 3 4 5

1 ▶ 型號 Model Name	SY	
2 ▶ 控制方式 Control Mode	DPCA	數位式 比例控制器 Digital Proportional Controller
3 ▶ 外殼形式 Type	D	DIN 插頭 DIN43650A Plug
4 ▶ 連接形式 Connection	P9	PG9 防水接頭 PG9 Cable Gland
5 ▶ 輸出組數 Output	1	單線圈 single coil

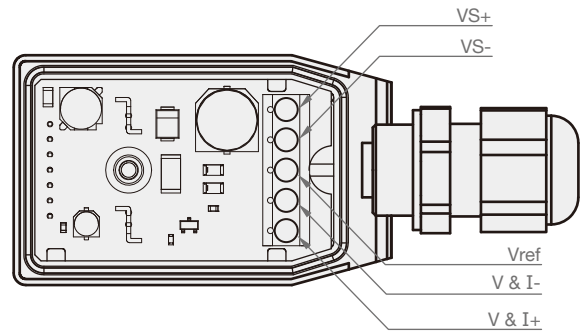
規格表 MODEL SPEC.

型號 Model	SY-DPCA-D-P9-1
操作電壓 Operating Voltage	直流電 9 ~ 32VDC
操作電壓範圍 Voltage Tolerance	5%
控制器輸入訊號 Input Signal Options	0 ~ 5V, 0~10V, 4~20mA
輸出電流 Output Current	3A max.
震顫頻率 Dither Frequency	70 ~ 350Hz
斜坡上升及斜坡下降 Ramp Up and Down	0.1 ~ 5.0s
參考電壓輸出 Reference Voltage	5V (max. current 5mA)
工作條件 Operating Conditions	-20 ~ 60°C
重量 Weight	0.2kg

端子連接說明 CONNECTIONS

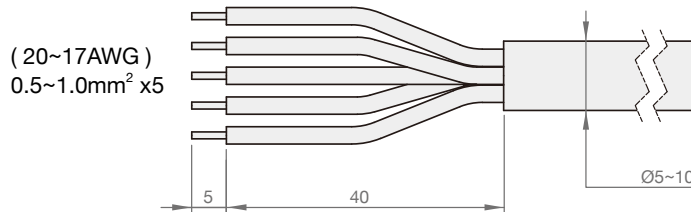
接線說明 Wiring Instruction

1	VS+	電源輸入 + Power+
2	VS-	電源輸入 - Power-
3	Vref	+5V 參考電壓 +5V Reference voltage
4	V & I-	訊號地 Command ground
5	V & I+	訊號輸入 Command



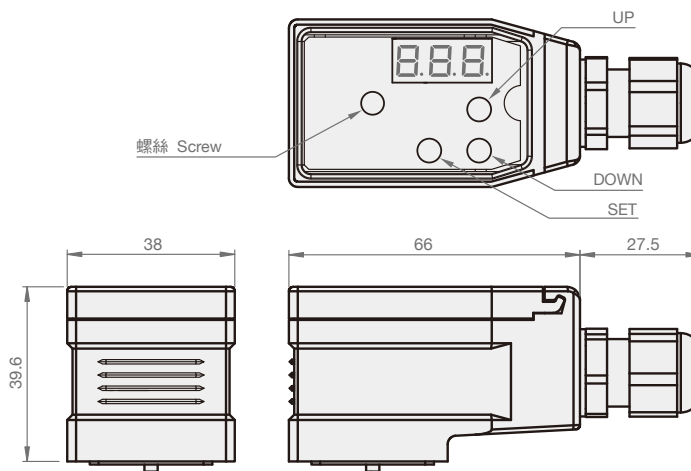
線材選用 WIRING PAREPARATION

(單位 unit : mm)

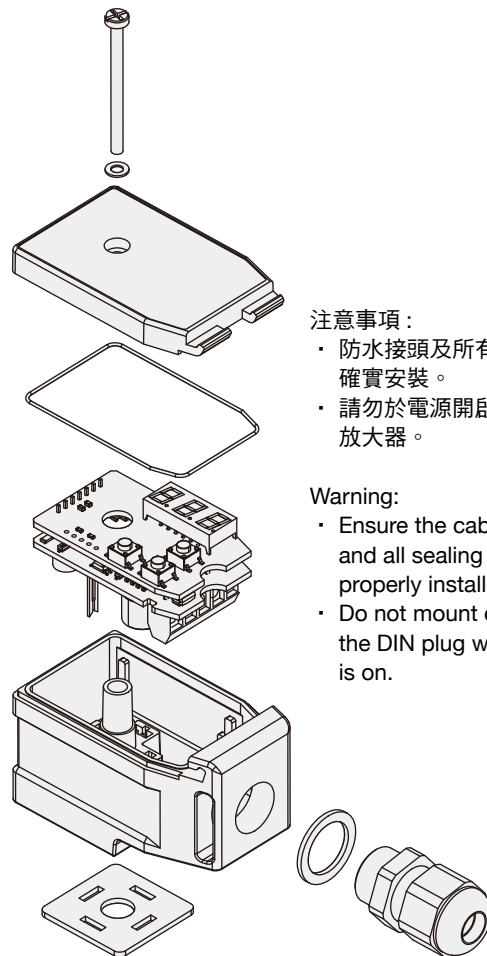


尺寸 DIMENSION

(單位 unit : mm)



組合圖 ASSEMBLY



注意事項：

- 防水接頭及所有密封件需確實安裝。
- 請勿於電源開啟時，插 / 拔放大器。

Warning:

- Ensure the cable gland and all sealing parts are properly installed.
- Do not mount or dismount the DIN plug when power is on.



This product has been designed and tested to meet specific standards outlined in the European Electromagnetic Compatibility Directive (EMC)2014/30/EU.

本產品設計已通過歐盟電磁相容性指令 (EMC)2014/30/EU 下的具體標準測試。

Emission: EN 61000-6-4:2019

Immunity: EN 61000-6-2:2019; EN 61000-4-2:2009, EN 61000-4-3:2020, EN 61000-4-8:2010

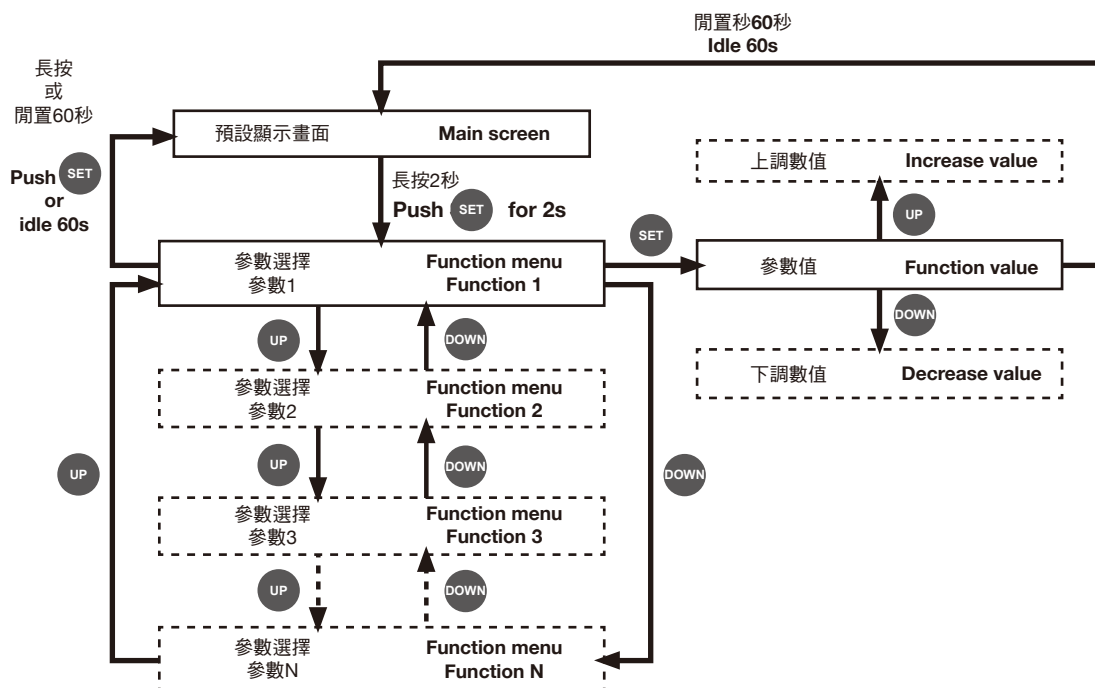
Certificate No. NE1105240044

操作說明 Operating Instruction

參數設定說明 SETTING THE PARAMETERS

1. 預設顯示畫面下，長按 **SET** 鍵2秒進入參數選擇介面。
2. 在參數選擇介面下，按 **UP** 或 **DOWN** 鍵選擇可調整參數。
3. 選擇欲調整參數後，按一下 **SET** 鍵進入個別參數值調整介面。
4. 在參數值調整介面，按 **UP** 或 **DOWN** 鍵上下調整參數值，按 **SET** 鍵確認並返回參選擇介面。
5. 在參數選擇介面下，長按 **SET** 鍵2秒返回預設顯示畫面。各介面下閒置60秒均會回到預設顯示畫面。
6. 參數保存：調整完後選擇進入 *P5R* 參數，上調參數值至 5 即可儲存並回到預設顯示畫面，若無進行此步驟則下次開機會恢復至儲存前設定。
7. 恢復出廠參數：選擇進入 *P-r-F* 參數，上調參數值至 5 即可恢復出廠設定並回到預設顯示畫面。

1. At main screen, push **SET** button for 2s and open function menu.
2. At function menu, push **UP** and **DOWN** to select function.
3. Push **SET** button to open function value and push **UP** and **DOWN** to adjust it.
4. After adjustment, push **SET** button to setup function value and return to function menu.
5. Return to main screen by pushing **SET** button for 2s manually or idling for 60s.
6. Save setup : select *P5R* function and adjust its value to "5". If no saving all the function value will be reset after reboot.
7. Default setup: select *P-r-F* function and adjust its value to "5".



參數表 FUNCTION TABLE

編號 No.	項目 Function	顯示器 Display	出廠預設值 Default Value	調整範圍 Adjustment Range	單位 Unit	說明 Description
1	最大電流 Max. output current	P _{IH}	1	0.20~3.00	A	調整單位0.01A adj. unit 0.01A
2	最小電流 Min. output current	P _{IL}	0.00	0.00 ~ 1.00	A	調整單位0.01A adj. unit 0.01A
3	電流上升時間 Ramp up time	P _{RU}	0.1	0.1 ~ 5.0	s	調整單位0.1s adj. unit 0.1s
4	電流下降時間 Ramp down time	P _{RD}	0.1	0.1 ~ 5.0	s	調整單位0.1s adj. unit 0.1s
5	啟動信號 ^{*1} Enable ^{*1}	P _{EA}	0	0 ~ 1		0:無須啟動信號 1:Enable接地始可啟動 0: function off 1: function on, ground the ENABLE pin to enable controller
6	輸入信號 Input signal type	P _{RI}	10	10/5/420/ 485/PCt		10:0-10V ; 5:0-5V ; 420:4~20mA ; 485:485控制 ^{*1} ; PCt:面板控制 ^{*1} 10:0-10V ; 5:0-5V ; 420:4~20mA ; 485:485 control ^{*1} ; PCt:panel control ^{*1}
7	顫振頻率 Dither frequency	P _{DF}	140	70 ~ 350	Hz	調整單位: 10Hz adj. unit 10Hz
8	指令死區 Command deadband	P _{CD}	2	0 ~ 5	%	調整單位: 1% adj. unit 1%
9	顯示模式 Display type	P _{DS}	0	0 ~ 2		0:輸出電流(A) 1:輸入指令(V或mA) 2: 顯示器關閉 0: output current (A) 1: input instruction (V or mA) 2: display off for power saving
10	參數保存 Save setup	P _{SA}	0	0 ~ 5		當數值=5保存參數 When the value = 5, save the parameters instruction
11	恢復出廠參數 Default setup	P _{RF}	0	0 ~ 5		當數值=5恢復出廠參數 When the value = 5, restore factory setting
12	故障清除 Clear error code	P _{CL}	0	0 ~ 5		當數值=5清除過電流故障碼 When the value = 5, delete the error code of current overload
13	設備位址 ^{*1} Device address ^{*1}	A _{DR}	001	001~247		*2
14	鮑率 ^{*1} Baud rate ^{*1}	b _{DR}	19.2	4.8/9.6/19.2/ 38.4/57.6	K	*2

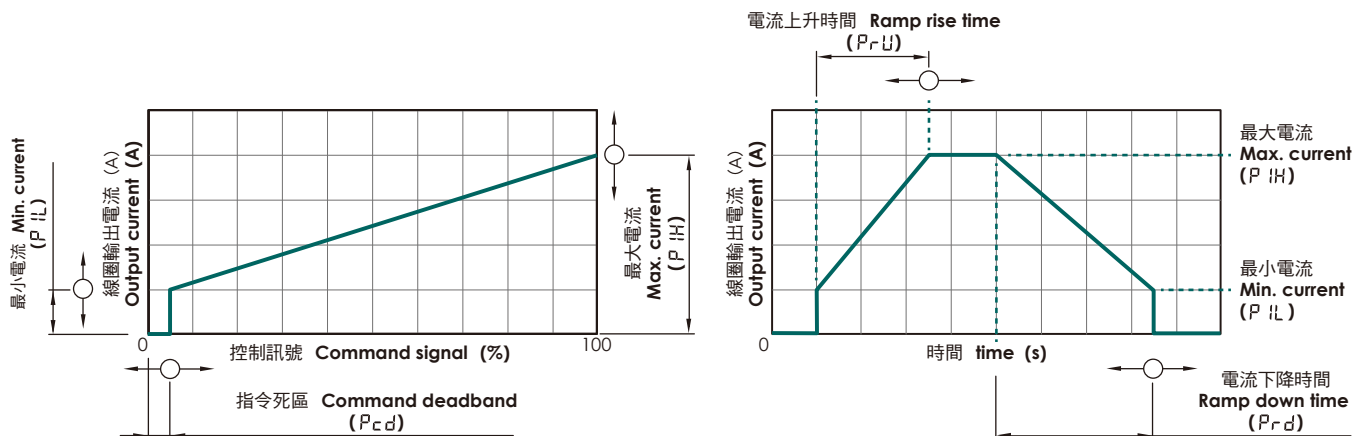
*1 僅適用於SY-DPCA-P & SY-DPCA-C。

*2 使用USB-RS485轉換器(需另購)，您可以透過我司提供的PC軟體進行操作及參數設定。如需取得PC軟體，請發送電子郵件聯繫取得：
info@steedmachinery.com.tw。

*1 SY-DPCA-P & SY-DPCA-C only.

*2 Using a USB-RS485 converter (purchase separately), you can operate and configure parameters via the PC software provided by our company.
Please mail us to get the PC software : info@steedmachinery.com.tw.

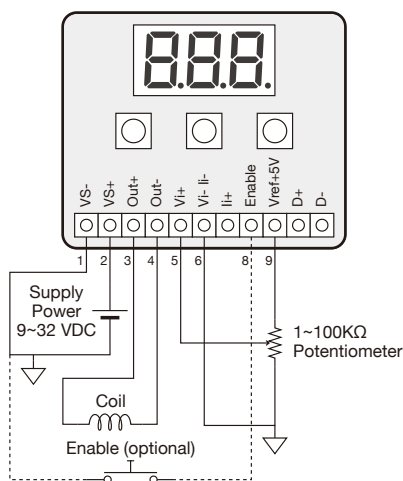




配線範例 WIRING EXAMPLE : SY-DPCA-P & SY-DPCA-C

1. 電位計配合內建 5V 參考電壓進行控制

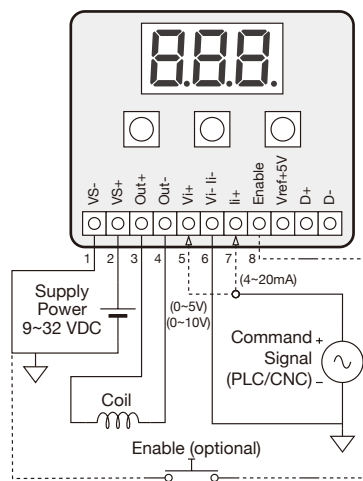
Potentiometer control via built-in 5Vref



* PR 1 參數數值調整至 "5"
Adjust PR 1 function value as "5".

2. 外部訊號控制

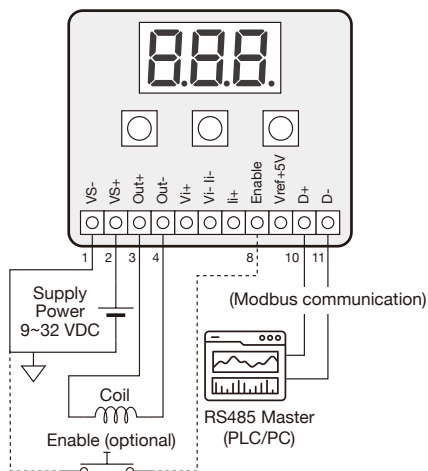
External command control



* 根據信號種類選擇 PR 1 參數數值
Adjust PR 1 function value according to the signal source.

3. 透過 RS485 以 Modbus 控制

Modbus control via RS485



*1 連結PC端需要USB-RS485轉換器 (另購)

*2 如需取得PC軟體，請發送電子郵件聯繫取得：RSIND.CN@vip.163.com

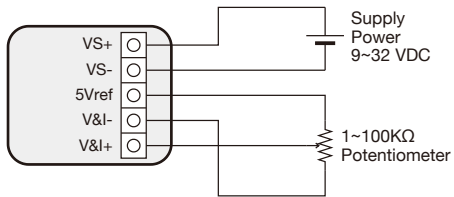
*1 A USB-RS485 converter (purchase separately) is necessary to connect PC.

*2 Please mail us to get the PC software : RSIND.CN@vip.163.com



1. 電位計配合內建 5V 參考電壓進行控制

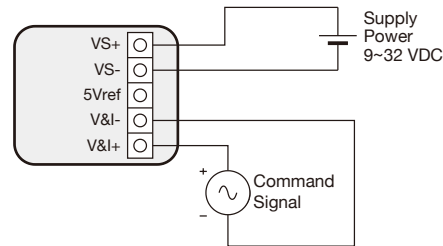
Potentiometer control via built-in 5Vref



* PR 1 參數數值調整至 "5"
Adjust PR 1 function value as "5".

2. 外部訊號控制

External command control



* 根據信號種類選擇 PR 1 參數數值
Adjust PR 1 function value according to the signal source.

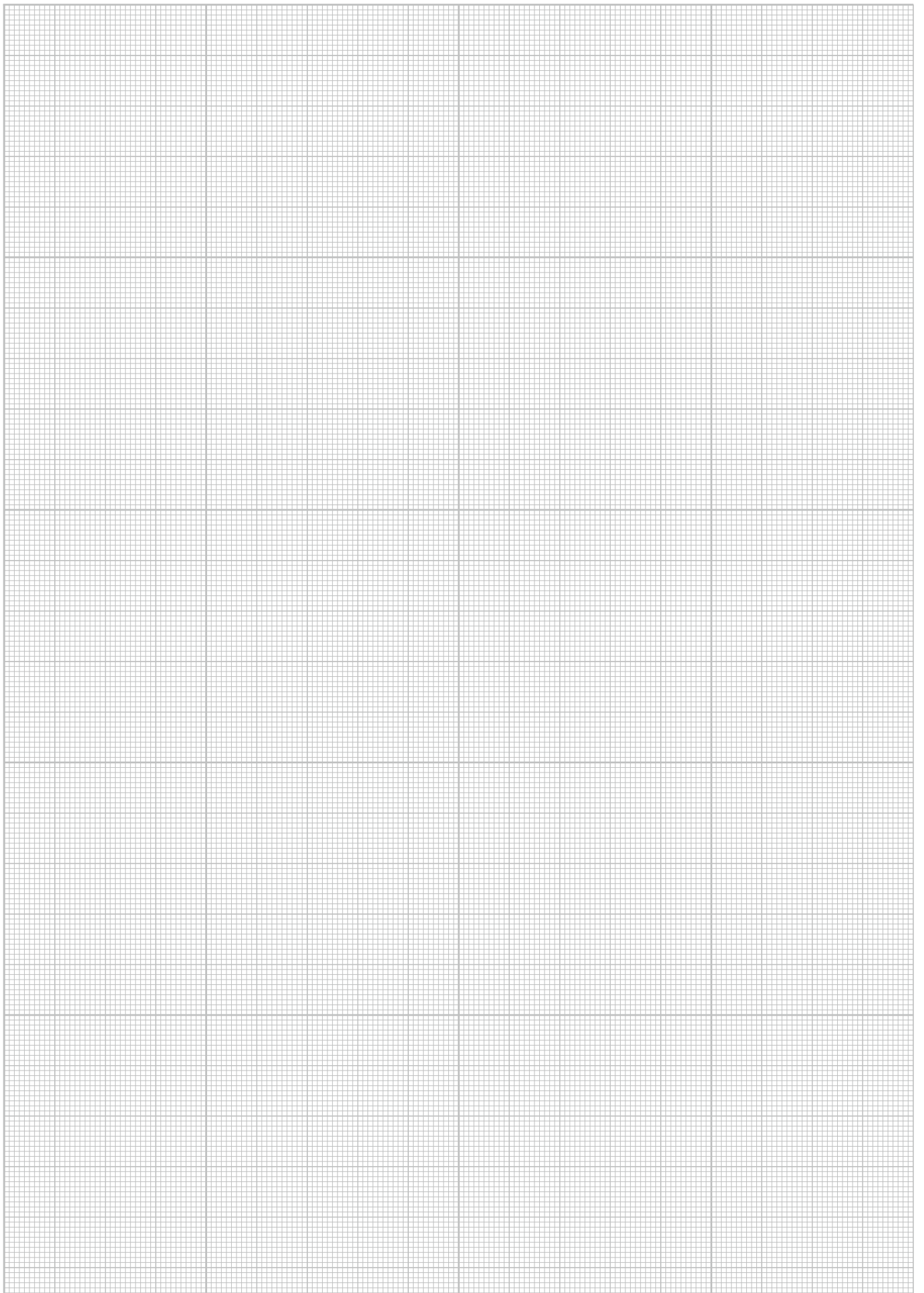
故障碼說明 ERROR CODE

顯示故障碼 Error Code	故障說明 Error Description	故障碼排除 Clear Error Code
E 10	4~20mA信號斷路 4-20mA signal open	當出現 E 10, E 11, E 30 故障碼，在故障排除後，控制器會自動清除故障碼重新進入正常工作狀態。 For error code E 10, E 11, E 30. Controller will detect troubleshooting and clear the error code automatically.
E 11	4~20mA信號過載 4-20mA signal overload	
E 30	電磁鐵線圈開路 Coil open	
E 31	電磁鐵線圈短路 Coil short	故障排除後，調整參數 E 3 1 或重開機方可清除故障碼。 For error code E 3 1. After troubleshooting it is necessary to adjust function PcL or reboot to clear the error code.

注意事項 WARNING

1. 控制器與電磁線圈需在斷電狀態下方可進行連接或是斷開。
2. 根據歐洲標準規定EN-982，控制器產生的電子訊號如參考電壓禁止直接作為設備安全功能的驅動訊號。

1. Install the controller and Coil only when the power is off.
2. According to European standards EN-982. the electrical output signal of the controller (e.g. reference voltage) must not be directly used to activate safety functions, like to switch-ON/OFF the machine's safety components.



SAE插裝閥 SAE Cavity Cartridge Valve

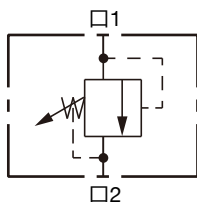
壓力控制 Pressure Control
流量控制 Flow Control
方向控制 Directional Control
插裝式過濾器 Filter



RV08-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
操作壓力 Operating Pressure (bar)	276
耐壓 Proof Pressure (bar)	483
流量 Flow (l/min)	22.7
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	25.8 - 28.5
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.22

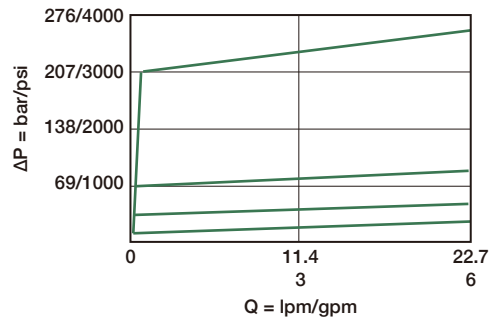
採購選型 ORDER CODE

RV	08	A	-	20	-	N	-	18
1	2	3		1		4		5

1 ▶ 型號 Model Name	RV-20		
2 ▶ 閥規格大小 Valve Size	08		
3 ▶ 可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head	
	B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob	
4 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N	
	V	氟橡膠 viton	
5 ▶ 彈簧範圍 Spring Range	05	3.45 ~ 41.4 ±6.9bar (50 ~ 600 ±100psi)	
	09	6.90 ~ 89.6 ±13.8bar (100 ~ 1300 ±200psi)	
	18	17.24 ~ 179.3 ±20.7bar (250 ~ 2600 ±300psi)	
	33	17.24 ~ 278.8 ±27.6bar (250 ~ 4000 ±400psi)	

曲線 PERFORMANCE CURVES

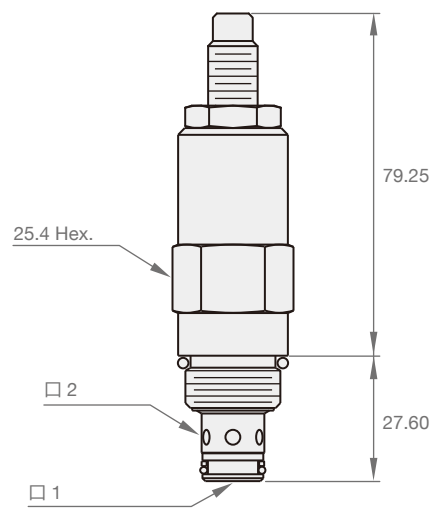
▶ 壓力上昇 Pressure Rise



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

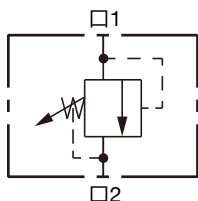
(單位 unit : mm)



RV10-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
操作壓力 Operating Pressure (bar)	228
耐壓 Proof Pressure (bar)	517
流量 Flow (l/min)	37.9
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.235

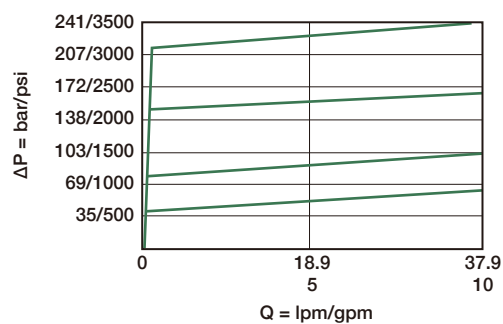
採購選型 ORDER CODE

RV	10	A	-	20	-	N	-	18
1	2	3		1		4		5

1 ▶ 型號 Model Name	RV-20		
2 ▶ 閥規格大小 Valve Size	10		
3 ▶ 可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head	
	B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob	
4 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N	
	V	氟橡膠 viton	
5 ▶ 彈簧範圍 Spring Range	06	3.45 ~ 41.38bar (50 ~ 600psi)	
	12	10.34 ~ 82.76bar (150 ~ 1200psi)	
	23	17.24 ~ 158.62bar (250 ~ 2300psi)	
	33	17.24 ~ 227.59bar (250 ~ 3300psi)	

曲線 PERFORMANCE CURVES

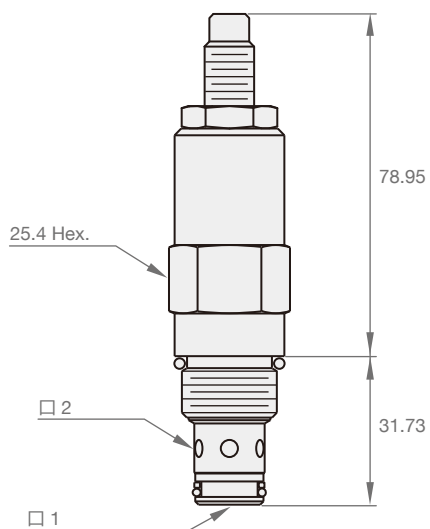
▶ 壓力上昇 Pressure Rise



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

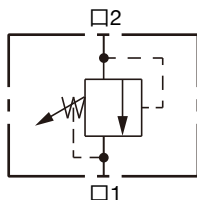
(單位 unit : mm)



RV08-22



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
操作壓力 Operating Pressure (bar)	248
耐壓 Proof Pressure (bar)	483
流量 Flow (l/min)	30.2
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.22

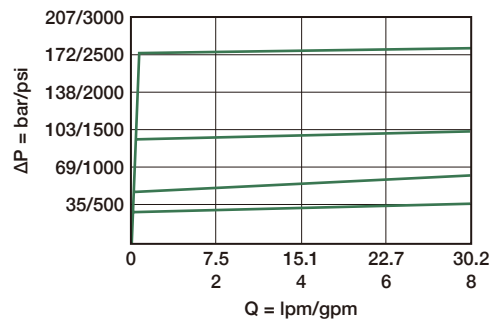
採購選型 ORDER CODE

RV	08	A	-	22	-	N	-	13
1	2	3		1		4		5

1 ▶	型號 Model Name	RV-22	
2 ▶	閥規格大小 Valve Size	08	
3 ▶	可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head
		B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4 ▶	油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton
5 ▶	彈簧範圍 Spring Range	04	3.4 ~ 27.6bar (50 ~ 400psi)
		07	6.9 ~ 62.1bar (100 ~ 900psi)
		13	6.9 ~ 117.2bar (100 ~ 1700psi)
		26	17.2 ~ 220.7bar (250 ~ 3200psi)

曲線 PERFORMANCE CURVES

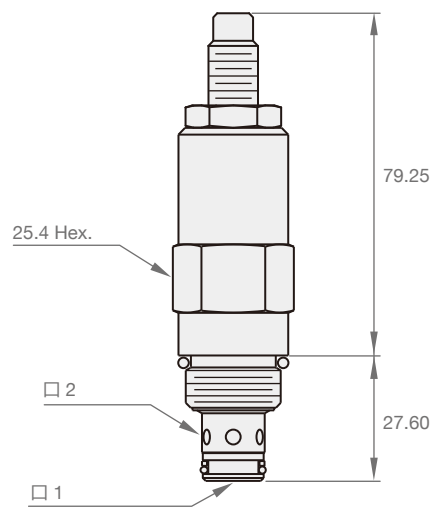
▶ 壓力上昇 Pressure Rise



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

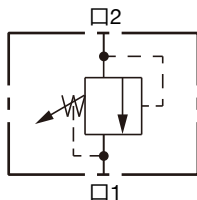
(單位 unit : mm)



RV10-22



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
操作壓力 Operating Pressure (bar)	241
耐壓 Proof Pressure (bar)	517
流量 Flow (l/min)	113.6
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.235

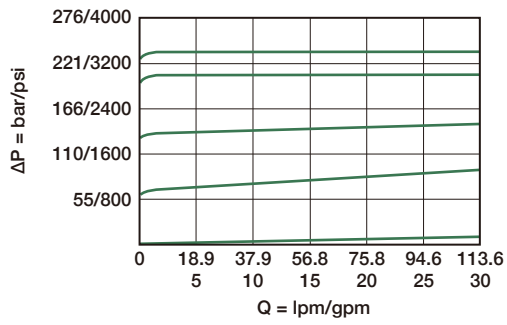
採購選型 ORDER CODE

RV	10	A	-	22	-	N	-	25
1	2	3		1		4		5

1 ▶ 型號 Model Name	RV-22	
2 ▶ 閥規格大小 Valve Size	10	
3 ▶ 可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head
	B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton
5 ▶ 彈簧範圍 Spring Range	06	10.34 ~ 41.38bar (150 ~ 600psi)
	12	10.34 ~ 89.66bar (150 ~ 1300psi)
	25	25.86 ~ 165.52bar (375 ~ 2400psi)
	35	17.24 ~ 241.38bar (250 ~ 3500psi)

曲線 PERFORMANCE CURVES

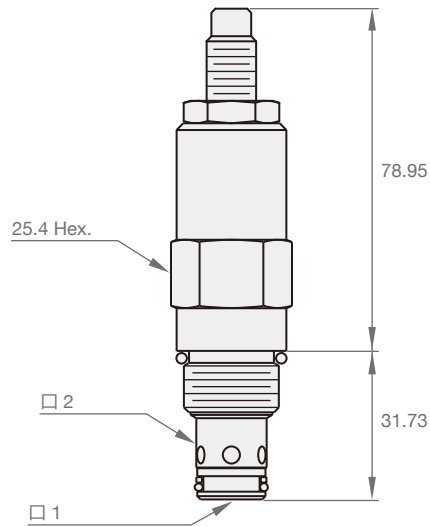
▶ 壓力上昇 Pressure Rise



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

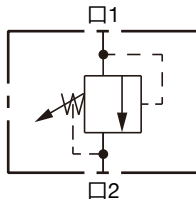
(單位 unit : mm)



RV10-26



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	420
流量 Flow (l/min)	113.6
內洩量 Internal Leakage (l/min)	115
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.23

採購選型 ORDER CODE

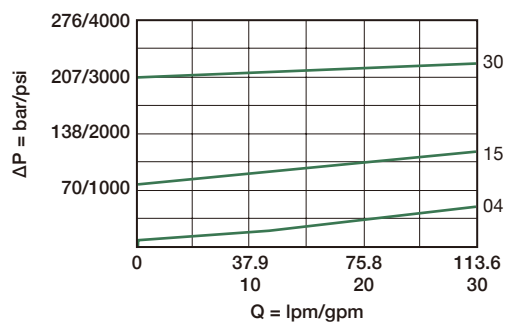
RV	10	A	-	26	-	N	-	30
1	2	3		1		4		5

1 ▶	型號 Model Name	RV-26
2 ▶	閥規格大小 Valve Size	10
3 ▶	可調選項 Adjustment Option	A 1/4" 六角螺絲 1/4" Hex allen head
		B 1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton
5 ▶	彈簧範圍 Spring Range	04 6.9 ~ 27.6bar (100 ~ 400psi)
		15 10.3 ~ 103.4bar (150 ~ 1500psi)
		30 27.6 ~ 206.9bar (400 ~ 3000psi)

曲線 PERFORMANCE CURVES

▶ 壓力上昇 Pressure Rise

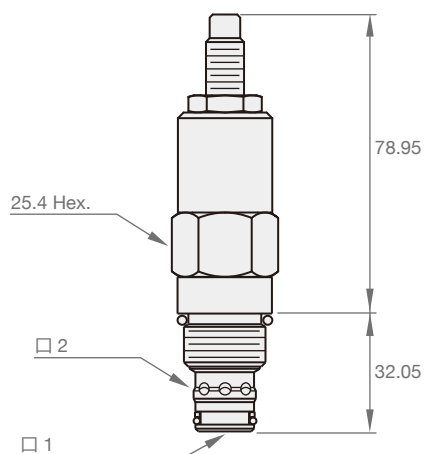
□ 1 → □ 2
Port 1 → Port 2



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

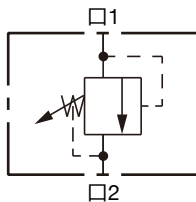
(單位 unit : mm)



RV12-26



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	420
流量 Flow (l/min)	189.3
內洩量 Internal Leakage (l/min)	115
安裝扭力 Installation Torque (Nm)	40.6
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.345

採購選型 ORDER CODE

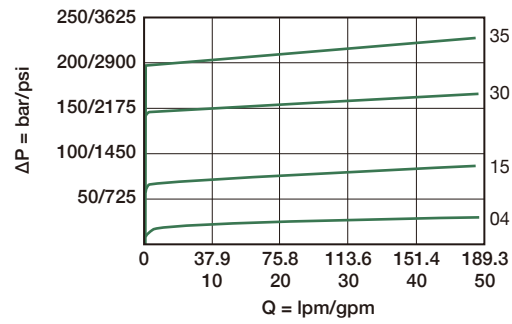
RV	12	A	-	26	-	N	-	35
1	2	3		1		4		5

1 ▶ 型號 Model Name	RV-26	
2 ▶ 閥規格大小 Valve Size	12	
3 ▶ 可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head
	B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton
5 ▶ 彈簧範圍 Spring Range	04	6.9 ~ 27.6bar (100 ~ 400psi)
	15	3.8 ~ 110.3bar (200 ~ 1600psi)
	30	31.0 ~ 206.9bar (450 ~ 3000psi)
	35	34.5 ~ 241.4bar (500 ~ 3500psi)

曲線 PERFORMANCE CURVES

► 壓力上昇 Pressure Rise

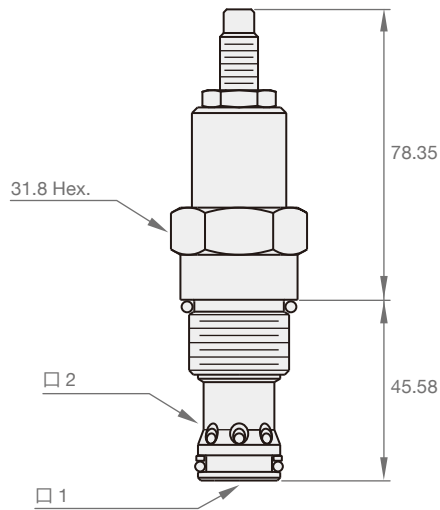
□ 1 → □ 2
Port 1 → Port 2



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

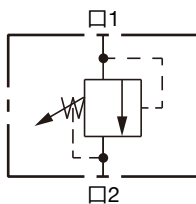
(單位 unit : mm)



RV16-26



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-16-2
操作壓力 Operating Pressure (bar)	276
耐壓 Proof Pressure (bar)	420
流量 Flow (l/min)	302.8
內洩量 Internal Leakage (l/min)	115
安裝扭力 Installation Torque (Nm)	67.7
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.56

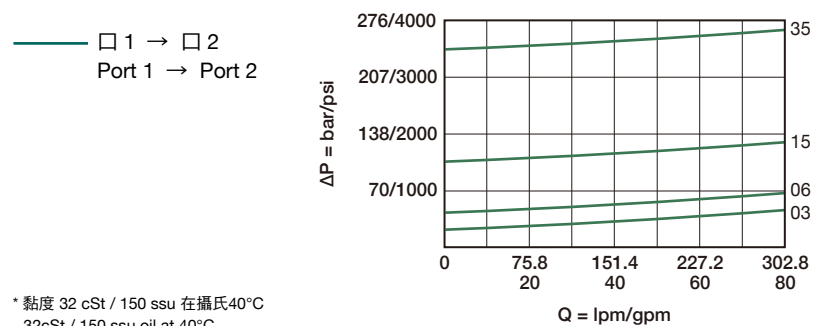
採購選型 ORDER CODE

RV	16	A	-	26	-	N	-	35
1	2	3		1		4		5

1 ▶	型號 Model Name	RV-26
2 ▶	閥規格大小 Valve Size	16
3 ▶	可調選項 Adjustment Option	A 1/4" 六角螺絲 1/4" Hex allen head
		B 1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton
5 ▶	彈簧範圍 Spring Range	03 9.7 ~ 20.7bar (140 ~ 300psi)
		06 15.9 ~ 41.4bar (230 ~ 600psi)
		15 36.6 ~ 103.5bar (530 ~ 1500psi)
		35 82.8 ~ 241.6bar (1200 ~ 3500psi)

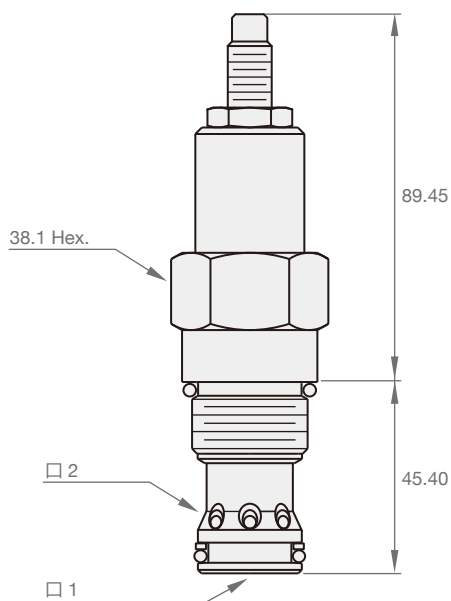
曲線 PERFORMANCE CURVES

▶ 壓力上昇 Pressure Rise



尺寸 DIMENSION

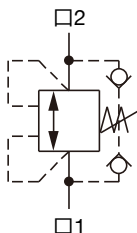
(單位 unit : mm)



CR08-28



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
操作壓力 Operating Pressure (bar)	350
耐壓 Proof Pressure (bar)	420
流量 Flow (l/min)	37
內洩量 Internal Leakage (cc/min)	85
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.22

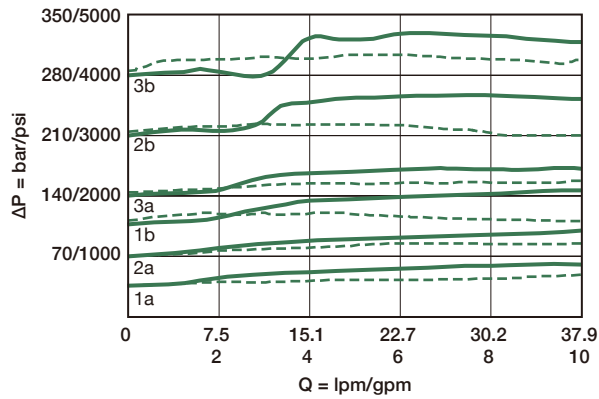
採購選型 ORDER CODE

CR	08	A	-	28	-	N	-	15
1	2	3		1		4		5

1 ▶ 型號 Model Name	CR-28		
2 ▶ 閥規格大小 Valve Size	08		
3 ▶ 可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head	
	B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob	
4 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N	
	V	氟橡膠 viton	
5 ▶ 彈簧範圍 Spring Range	15	6.9 ~ 103.4bar (100 ~ 1500psi)	
	30	51.7 ~ 206.9bar (750 ~ 3000psi)	
	50	103.4 ~ 344.8bar (1500 ~ 5000psi)	

曲線 PERFORMANCE CURVES

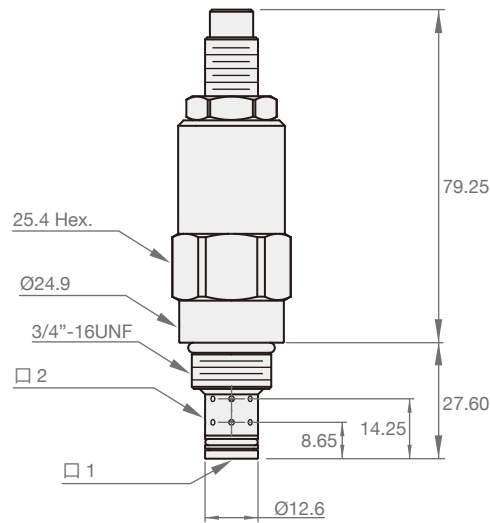
► 壓力上昇 Pressure Rise



* 33cSt / 150 ssu 操作油
 * 33cSt / 150 ssu oil

尺寸 DIMENSION

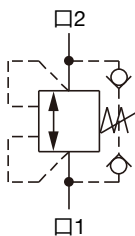
(單位 unit : mm)



CR10-28



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
操作壓力 Operating Pressure (bar)	350
耐壓 Proof Pressure (bar)	420
流量 Flow (l/min)	75
內洩量 Internal Leakage (cc/min)	85
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.18

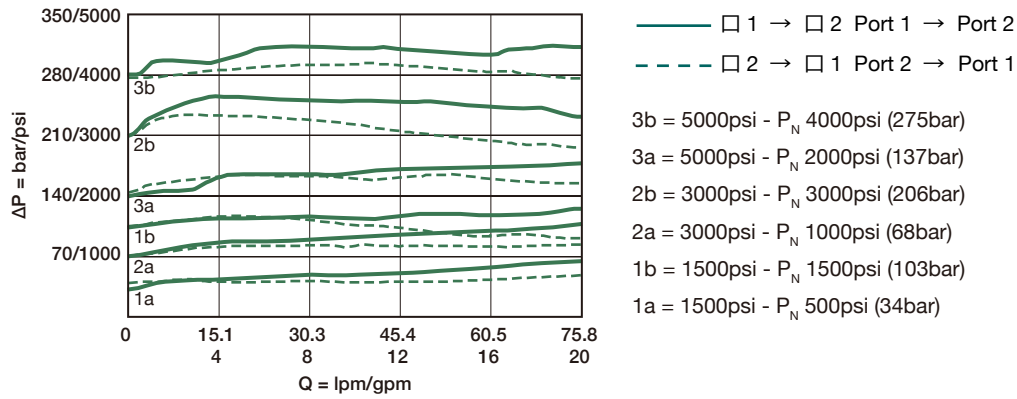
採購選型 ORDER CODE

CR	10	B	-	28	-	N	-	50
1	2	3		1		4		5

1 ▶ 型號 Model Name	CR-28		
2 ▶ 閥規格大小 Valve Size	10		
3 ▶ 可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head	
	B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob	
4 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N	
	V	氟橡膠 viton	
5 ▶ 彈簧範圍 Spring Range	15	6.9 ~ 103.4bar (100 ~ 1500psi)	
	30	51.7 ~ 206.9bar (750 ~ 3000psi)	
	50	103.4 ~ 344.8bar (1500 ~ 5000psi)	

曲線 PERFORMANCE CURVES

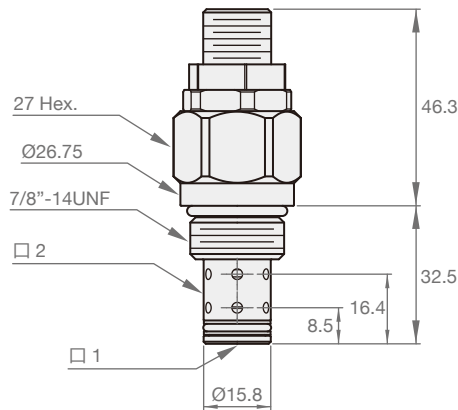
► 壓力上昇 Pressure Rise



* 33cSt / 150 ssu 操作油
* 33cSt / 150 ssu oil

尺寸 DIMENSION

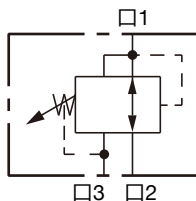
(單位 unit : mm)



PR08-32



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-3
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	390
流量 Flow (l/min)	11.4
內洩量 Internal Leakage (cc/min)	82 ^{*1}
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.23

*1. 口2到口3，設定206.8bar
Port2 to Port3, setting 206.8bar

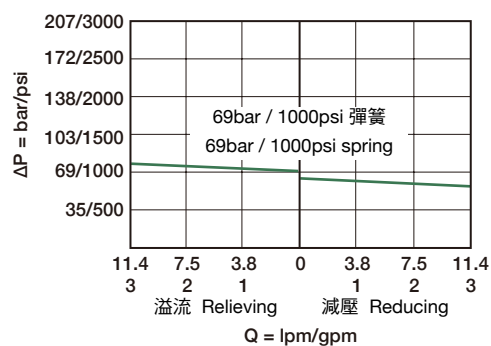
採購選型 ORDER CODE

PR	08	A	-	32	-	N	-	22
1	2	3		1		4		5

1 ▶	型號 Model Name	PR-32	
2 ▶	閥規格大小 Valve Size	08	
3 ▶	可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head
		B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4 ▶	油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton
5 ▶	彈簧範圍 Spring Range	03	3.4 ~ 20.7bar (50 ~ 300psi)
		06	10.4 ~ 41.4bar (150 ~ 600psi)
		12	20.7 ~ 82.8bar (300 ~ 1200psi)
		22	34.5 ~ 151.7bar (500 ~ 2200psi)

曲線 PERFORMANCE CURVES

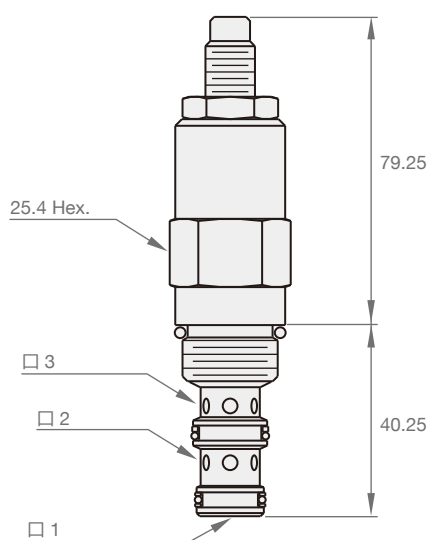
▶ 壓力上昇 Pressure Rise



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

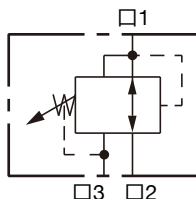
(單位 unit : mm)



PR10-32



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
操作壓力 Operating Pressure (bar)	207
耐壓 Proof Pressure (bar)	517
流量 Flow (l/min)	30.2
內洩量 Internal Leakage (cc/min)	82 ^{*1}
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.25

*1. 口2到口3，設定206.8bar
Port2 to Port3, setting 206.8bar

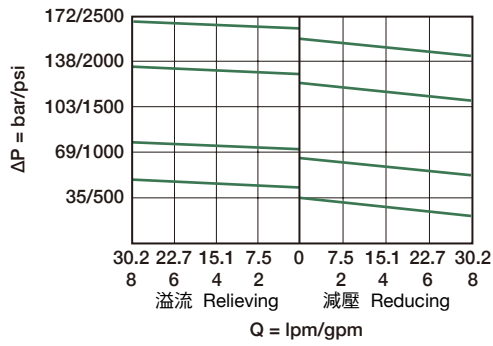
採購選型 ORDER CODE

PR	10	A	-	32	-	N	-	21
1	2	3		1		4		5

1	▶ 型號 Model Name	PR-32	
2	▶ 閥規格大小 Valve Size	10	
3	▶ 可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head
		B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4	▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton
5	▶ 彈簧範圍 Spring Range	04	5.5 ~ 27.6bar (80 ~ 400psi)
		08	13.8 ~ 55.2bar (200 ~ 800psi)
		15	20.7 ~ 103bar (300 ~ 1500psi)
		21	27.6 ~ 145bar (400 ~ 2100psi)

曲線 PERFORMANCE CURVES

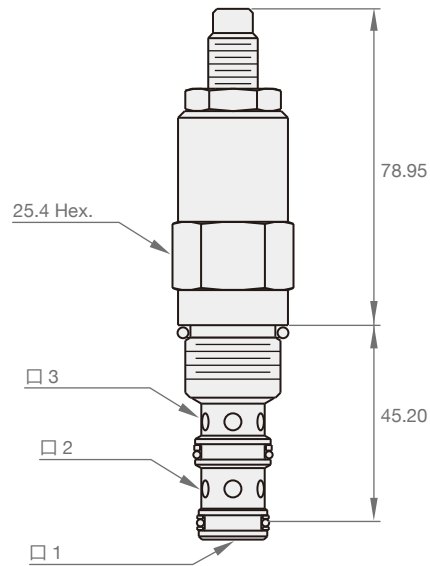
▶ 壓力上昇 Pressure Rise



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

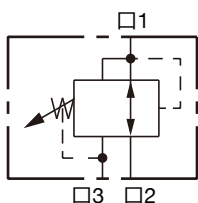
(單位 unit : mm)



PR10-36



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
操作壓力 Operating Pressure (bar)	210
耐壓 Proof Pressure (bar)	390
流量 Flow (l/min)	56
內洩量 Internal Leakage (l/min)	0.17
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.24

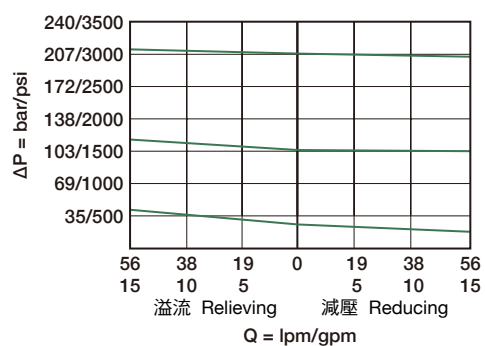
採購選型 ORDER CODE

PR	10	A	-	36	-	N	-	15
1	2	3		1		4		5

1 ▶ 型號 Model Name	PR-36		
2 ▶ 閥規格大小 Valve Size	10		
3 ▶ 可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head	
	B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob	
4 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N	
	V	氟橡膠 viton	
5 ▶ 彈簧範圍 Spring Range	04	6.9 ~ 27.6bar (100 ~ 400psi)	
	15	10.3 ~ 103.4bar (150 ~ 1500psi)	
	30	27.6 ~ 206.9bar (400 ~ 3000psi)	

曲線 PERFORMANCE CURVES

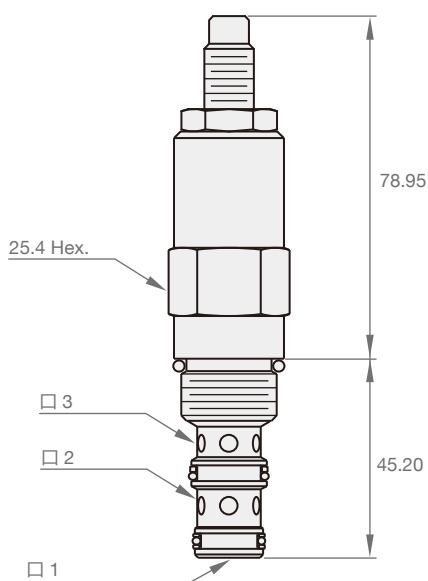
► 壓力上昇 Pressure Rise



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

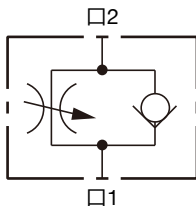
(單位 unit : mm)



FC10-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	345
流量 Flow (l/min)	45
內洩量 Internal Leakage (cc/min)	0.50
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.145

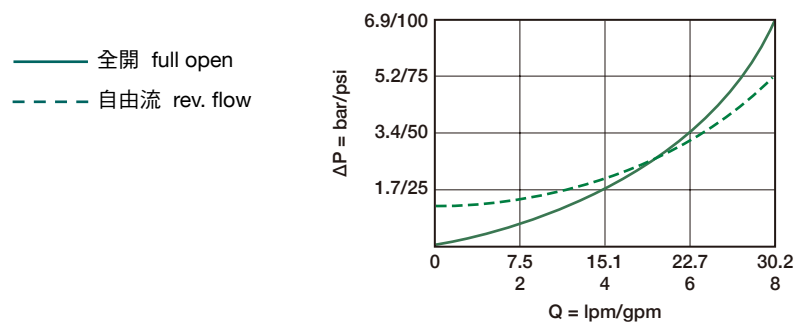
採購選型 ORDER CODE

FC	10	A	-	20	-	N
1	2	3		1		4

1 ▶	型號 Model Name	FC-20
2 ▶	閥規格大小 Valve Size	10
3 ▶	可調選項 Adjustment Option	A 1/4" 六角螺絲 1/4" Hex allen head
		B 1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

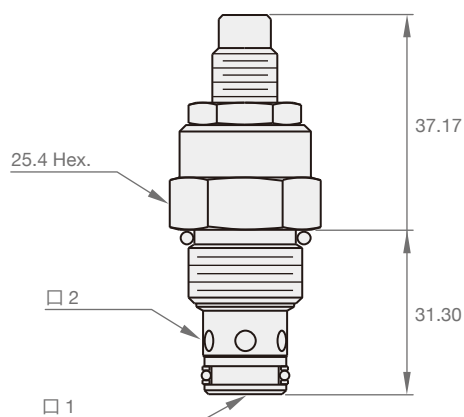
► 壓降 Pressure Drop



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

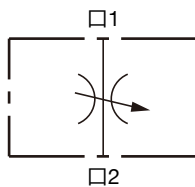
(單位 unit : mm)



NV08-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	345
流量 Flow (l/min)	42
內洩量 Internal Leakage (cc/min)	0.32
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.115

採購選型 ORDER CODE

NV	08	A	-	20	-	N
1	2	3		1		4

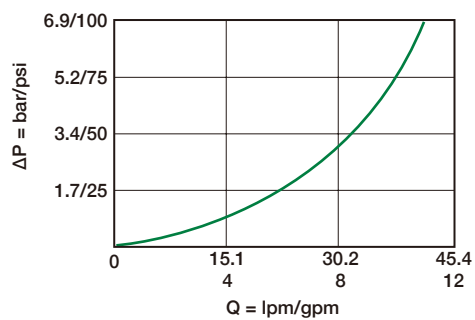
1 ▶	型號 Model Name	NV-20	
2 ▶	閥規格大小 Valve Size	08	
3 ▶	可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head
		B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4 ▶	油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 壓力上昇 Pressure Drop

全開, □2 → □1 或 □1 → □2

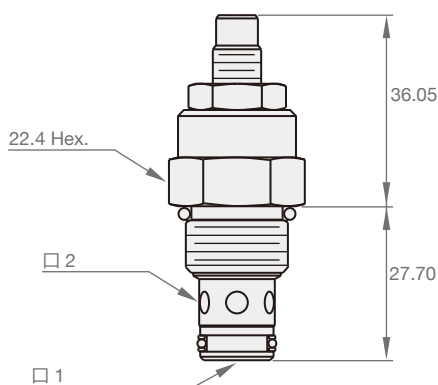
Full Open Port 2 → Port 1 or Port 1 → Port 2



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

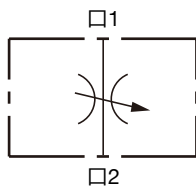
(單位 unit : mm)



NV10-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	345
流量 Flow (l/min)	45
內洩量 Internal Leakage (cc/min)	0.05
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.145

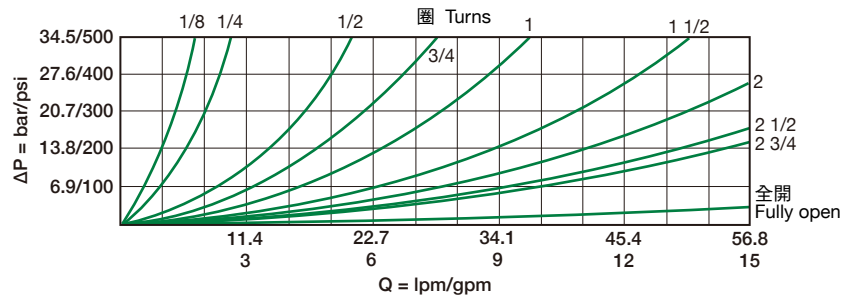
採購選型 ORDER CODE

NV	10	B	-	20	-	N
①	②	③		①		④

① ▶	型號 Model Name	NV-20	
② ▶	閥規格大小 Valve Size	10	
③ ▶	可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head
		B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
④ ▶	油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton

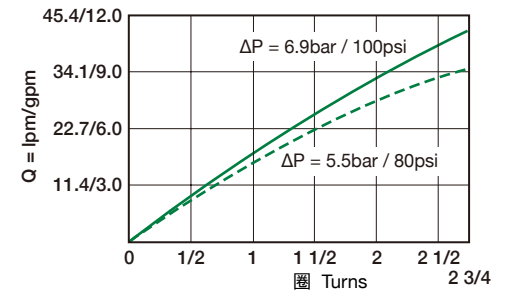
曲線 PERFORMANCE CURVES

▶ 壓力上昇 Pressure Drop



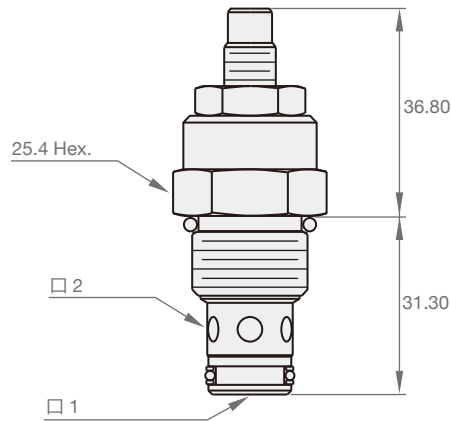
* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

▶ 流量 vs. 圈 Flow vs. Turns



尺寸 DIMENSION

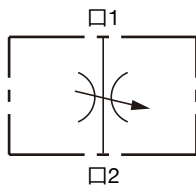
(單位 unit : mm)



NV12-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	345
流量 Flow (l/min)	113.6
內洩量 Internal Leakage (cc/min)	0.15
安裝扭力 Installation Torque (Nm)	47.4
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.3

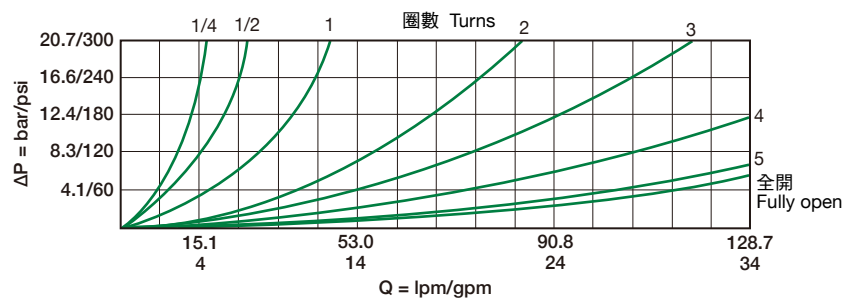
採購選型 ORDER CODE

NV	12	A	-	20	-	N
1	2	3		1		4

1 ▶	型號 Model Name	NV-20
2 ▶	閥規格大小 Valve Size	12
3 ▶	可調選項 Adjustment Option	A 1/4" 六角螺絲 1/4" Hex allen head
		B 1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

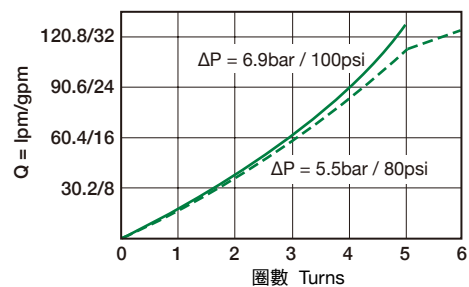
曲線 PERFORMANCE CURVES

▶ 壓力上昇 Pressure Drop



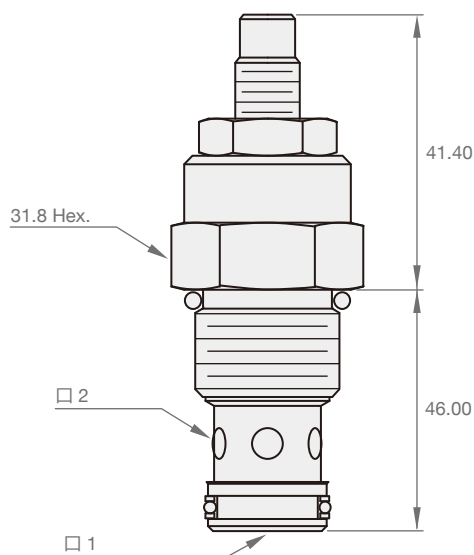
* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

▶ 流量 vs. 圈數 Flow vs. Turns



尺寸 DIMENSION

(單位 unit : mm)



FR12-33

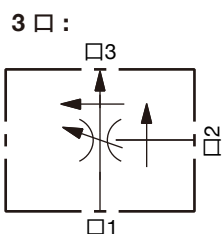
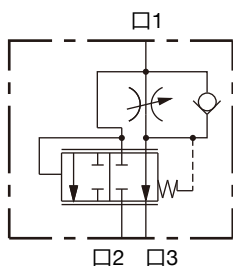


規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-3
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	345
流量 Flow (l/min)	3□ 3-ported : 0 ~ 68 2□ 2-ported : 0 ~ 45
內洩量 Internal Leakage (l/min)	0.12 ^{*1}
安裝扭力 Installation Torque (Nm)	47
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.235

*1. 在口3, 設定壓力 206.8 bar
at Port3, setting 206.8bar

符號 SYMBOL



採購選型 ORDER CODE

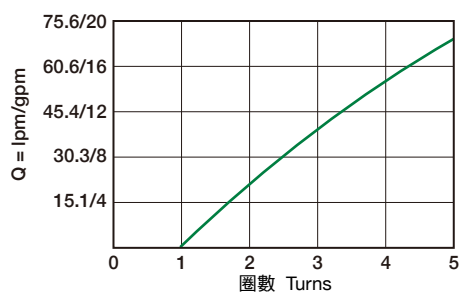
FR	12	A	-	33	-	N
1	2	3	1	4		

1 ▶ 型號 Model Name	FR-33	
2 ▶ 閥規格大小 Valve Size	12	
3 ▶ 可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head
	B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 流量 vs. 圈數 Flow vs. Turns

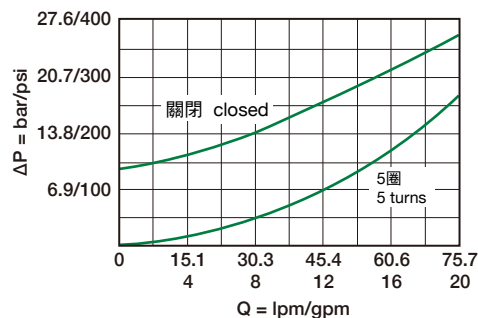
103bar / 1500psi



► 壓降 vs. 自由流 Pressure Drop vs. Reverse Flow

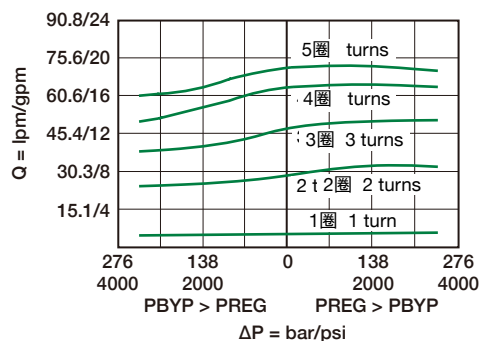
□3 → □1 Port 3 → Port 1

240bar / 3500psi 入口壓力 240bar / 3500psi Inlet Pressure



► 可調流量 vs. 壓力 Regulated Flow vs. Pressure

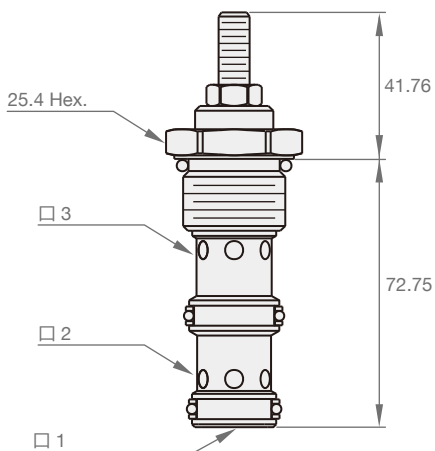
在76lpm / 20gpm 入口流量下 at 76lpm / 20gpm Input Flow



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



FR10-39



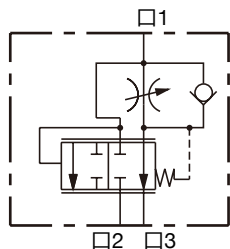
規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	345
流量 Flow (l/min)	3□ 3-ported : 0 ~ 38 2□ 2-ported : 0 ~ 34
內洩量 Internal Leakage (l/min)	0.38
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.135

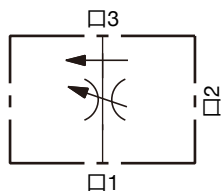
採購選型 ORDER CODE

FR	10	A	-	39	-	N
1	2	3		1		4

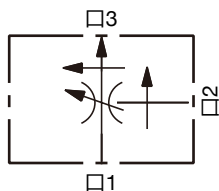
符號 SYMBOL



2 □ :



3 □ :



1 ▶ 型號 Model Name	FR10-39	
2 ▶ 閥規格大小 Valve Size	10	
3 ▶ 可調選項 Adjustment Option	A	1/4" 六角螺絲 1/4" Hex allen head
	B	1 1/2" 直徑鋁製旋鈕 1 1/2" dia alum. knob
4 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

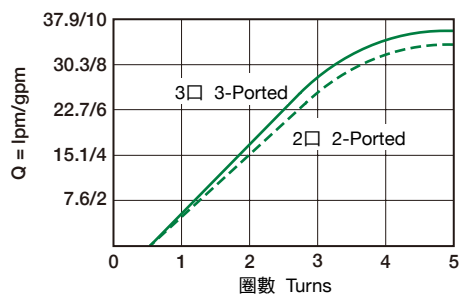
曲線 PERFORMANCE CURVES

▶ 可調流量 vs. 圈數 Regulated Flow vs. Turns

103bar / 1500psi at Port 3

2□ 2-Ported : at 123bar / 1800psi inlet pressure

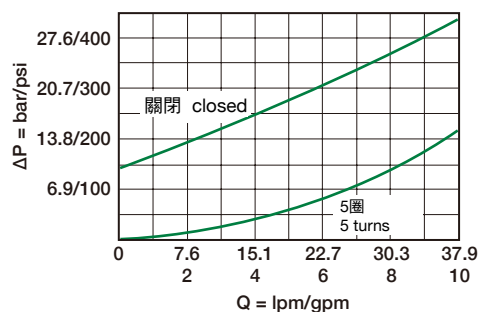
3□ 3-Ported : at 38lpm / 10gpm inlet flow



▶ 壓降 vs. 自由流 Pressure Drop vs. Reverse Flow

□3 → □1 Port 3 → Port 1

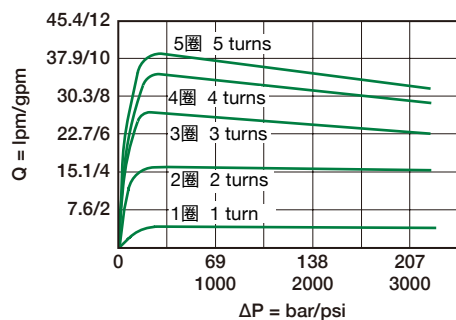
34.5bar / 500psi 入口壓力 34.5bar / 500psi Inlet Pressure



▶ 2 口可調流量 vs. 壓降

2-Ported Regulated Flow vs. Pressure Drop

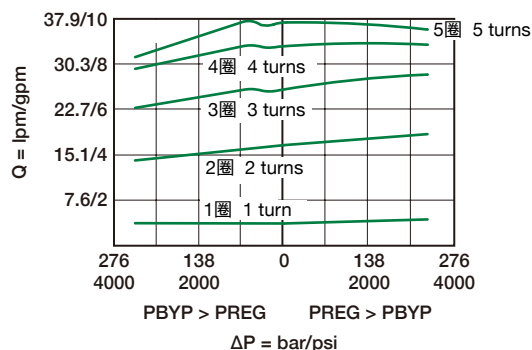
at 240bar / 3500psi Inlet



▶ 3 口可調流量 vs. 負載

3-Ported Regulated Flow vs. Load

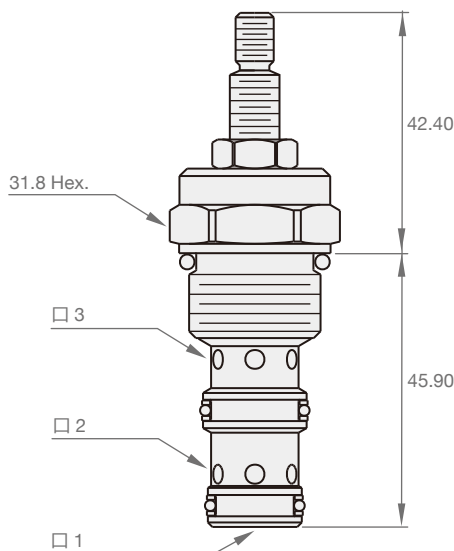
at 38lpm / 10gpm Inlet



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



VSK2



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	M18 * 1.5
操作壓力 Operating Pressure (bar)	320
流量 Flow (l/min)	15
操作溫度 Operating Temperature	-30 ~ 120°C (-22 ~ 248°F)
重量 Weight (kg)	0.025

採購選型 ORDER CODE

VSK	2	-	M2	-	100
1	2		3		4

1 ▶	型號 Model Name	VSK	
2 ▶	閥規格大小 Valve Size	2	插裝閥 screw-in cartridge
3 ▶	安裝閥孔 Cavity	M2	M18 * 1.5
4 ▶	孔洞直徑 Orifice Diameter (mm/100)	55, 80, 100, 120, 160, 180, 210, 230, 260	

孔洞直徑對應的約當流量
 Approximate Flow Rates Corresponding to Orifice Diameter

孔洞直徑 Orifice Diameter (mm/100)	壓力 32bar 條件下的流量範圍 Flow Range at 32bar * (l/min)	孔洞直徑 Orifice Diameter (mm/100)	壓力 32bar 條件下的流量範圍 Flow Range at 32bar * (l/min)
55	0.3 ~ 0.6	180	5.6 ~ 7.1
80	1.4 ~ 1.7	210	8.5 ~ 10.8
100	1.8 ~ 2.4	230	10.7 ~ 13.3
120	3.1 ~ 4.0	260	12.0 ~ 16.4
160	5.5 ~ 6.5		

* 可以根據客戶規格調整

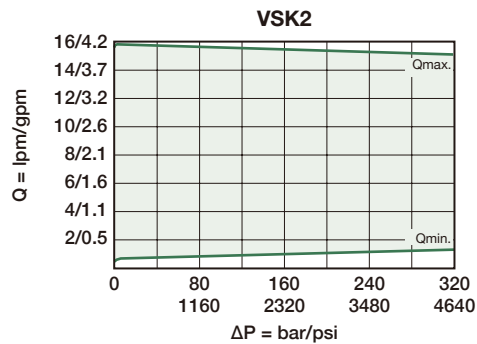
* Adjusted to customer spec. at manufacturer.

曲線 PERFORMANCE CURVES

► 調節流量與各孔洞直徑的閥門壓降的關係

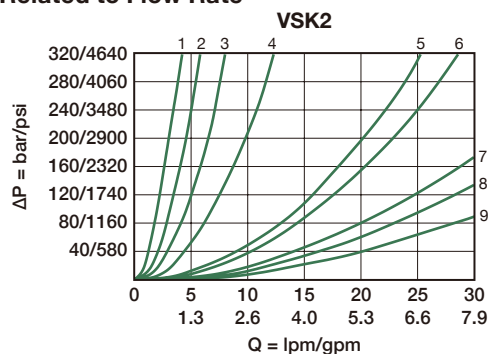
Regulated Flow as a Function of Valve Pressure Drop for Individual Orifice Diameters

□ 1 → □ 2
Port 1 → Port 2



► 壓降與流量 Pressure Drop Related to Flow Rate

□ 2 → □ 1
Port 2 → Port 1

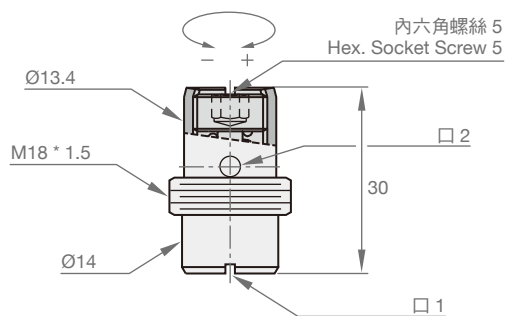


孔洞直徑 Orifice Diameter (mm/100)					
No.	1	2	3	4	5
Orifice	55	80	100	120	150
No.	6	7	8	9	
Orifice	180	210	230	260	

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

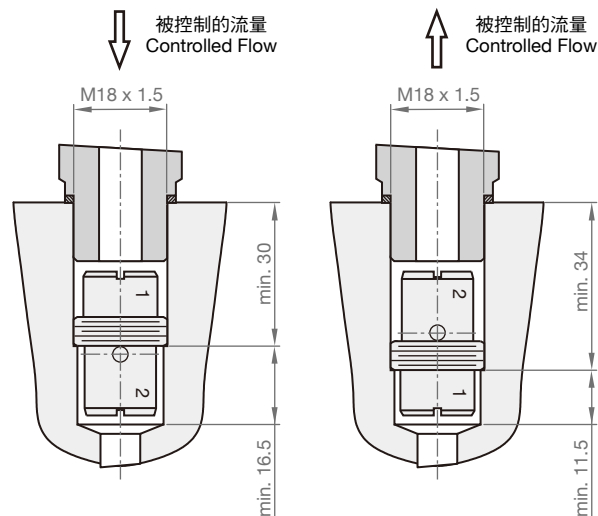
尺寸 DIMENSION

(單位 unit : mm)



成型孔閥塊 CAVITY TOOLING

(單位 unit : mm)



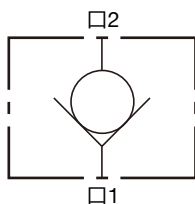
CV04-20



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-04-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	350
流量 Flow (l/min)	5.7
內洩量 Internal Leakage (cc/min)	0.10
安裝扭力 Installation Torque (Nm)	CV04-20 : 16 ~ 19 CV04-B20 : 5.4 ~ 6.7
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.01

符號 SYMBOL



採購選型 ORDER CODE

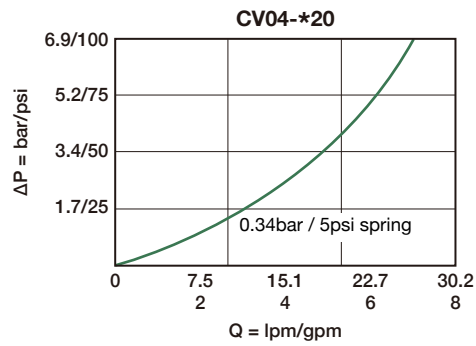
CV	04	-	B	20	-	N	-	05
1	2		3	1		3		4

1	▶ 型號 Model Name	CV-20
2	▶ 閥規格大小 Valve Size	04
3	▶ 安裝 Mounting	B 下方孔安裝 down-hole mount
		空白 none 平面安裝 surface mount
4	▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton
5	▶ 偏置彈簧 Bias Spring	05 0.34bar (5psi)

曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop

□ 1 → □ 2
Port 1 → Port 2

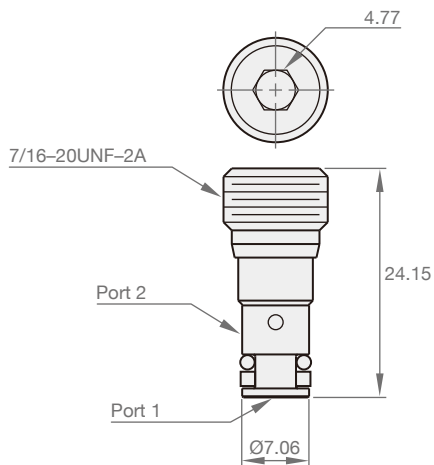


* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

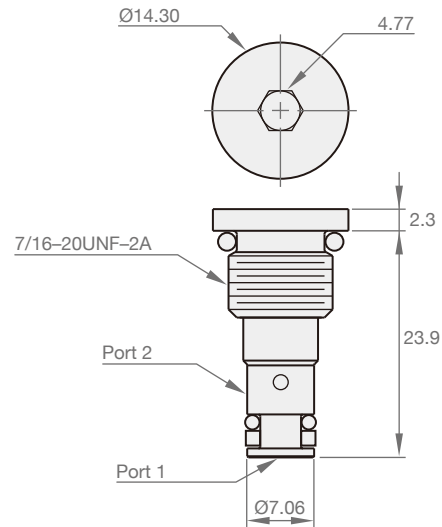
尺寸 DIMENSION

(單位 unit : mm)

► CV04-B20



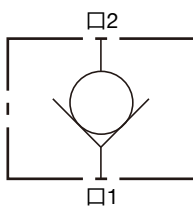
► CV04-20



CV08-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	350
流量 Flow (l/min)	30
內洩量 Internal Leakage (cc/min)	0.10
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.05

採購選型 ORDER CODE

CV	08	-	20	-	N	-	05
1	2		1		3		4

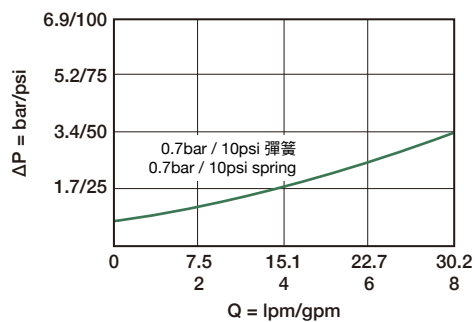
1 ▶ 型號 Model Name	CV-20	
2 ▶ 閥規格大小 Valve Size	08	
3 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton
4 ▶ 偏置彈簧 Bias Spring	05	0.34bar (5psi)
	30	2.1bar (30psi)
	50	3.5bar (50psi)

曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop

— □ 1 → □ 2
Port 1 → Port 2

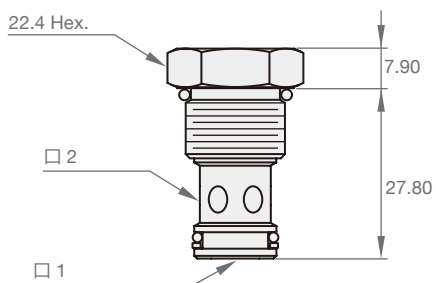
- - - □ 1 → □ 2
Port 1 → Port 2



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

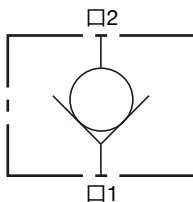
(單位 unit : mm)



CV10-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	350
流量 Flow (l/min)	76
內洩量 Internal Leakage (cc/min)	0.10
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.08

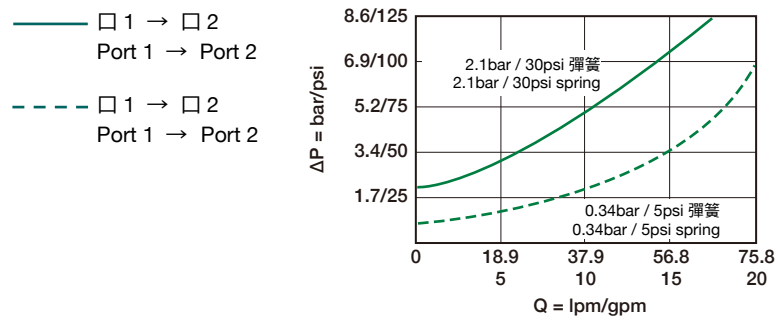
採購選型 ORDER CODE

CV	10	-	20	-	N	-	100
1	2		1		3		4

1 ▶	型號 Model Name	CV-20
2 ▶	閥規格大小 Valve Size	10
3 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton
4 ▶	偏置彈簧 Bias Spring	05 0.34bar (5psi)
		30 2.1bar (30psi)
		50 3.5bar (50psi)
		100 6.9bar (100psi)

曲線 PERFORMANCE CURVES

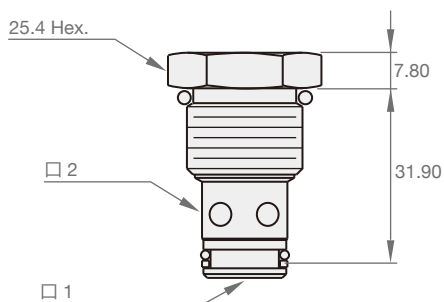
► 壓降 Pressure Drop



* 黏度 32 cSt / 150 ssu 在攝氏40°C
 32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

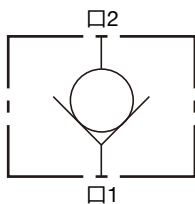
(單位 unit : mm)



CV12-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	420
流量 Flow (l/min)	95
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	47.5
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.17

採購選型 ORDER CODE

CV	12	-	20	-	N	-	50
1	2		1	3	4		

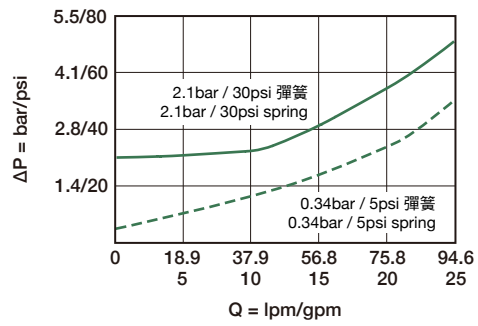
1 ▶	型號 Model Name	CV-20
2 ▶	閥規格大小 Valve Size	12
3 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton
4 ▶	偏置彈簧 Bias Spring	05 0.34bar (5psi)
		50 3.5bar (50psi)

曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop

— □ 1 → □ 2
Port 1 → Port 2

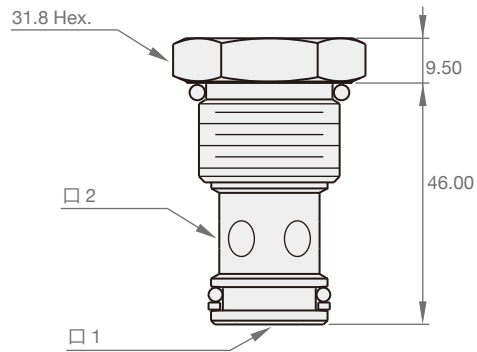
- - - □ 1 → □ 2
Port 1 → Port 2



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



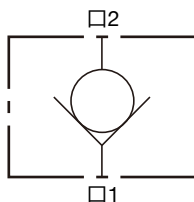
CV16-20



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-16-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	350
流量 Flow (l/min)	151
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	67.7
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.27

符號 SYMBOL



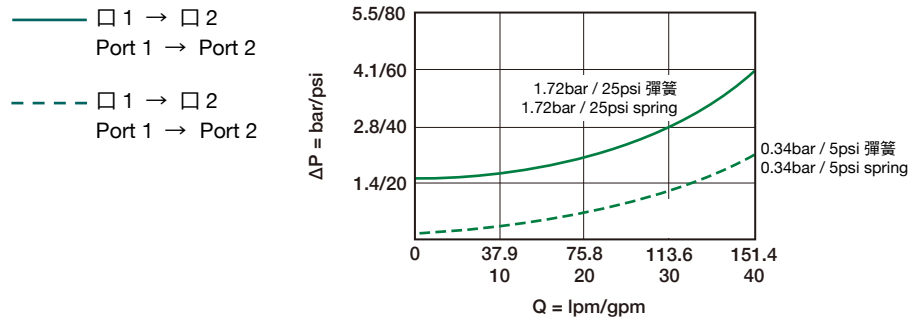
採購選型 ORDER CODE

CV	16	-	20	-	N	-	05
1	2		1	3	4		

1 ▶	型號 Model Name	CV-20
2 ▶	閥規格大小 Valve Size	16
3 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton
4 ▶	偏置彈簧 Bias Spring	05 0.34bar (5psi)
		50 3.5bar (50psi)

曲線 PERFORMANCE CURVES

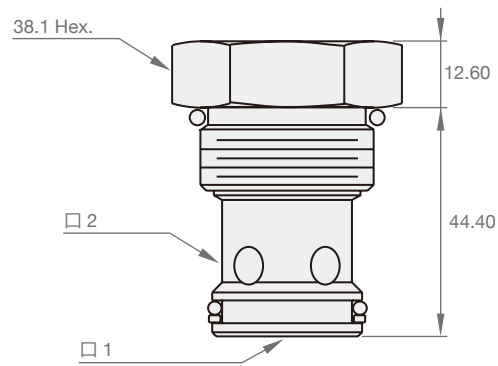
► 壓降 Pressure Drop



* 黏度 32 cSt / 150 ssu 在攝氏40°C
 32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



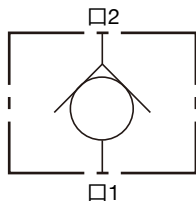
CV08-21



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
操作壓力 Operating Pressure (bar)	210
耐壓 Proof Pressure (bar)	250
流量 Flow (l/min)	30.2
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.053

符號 SYMBOL



採購選型 ORDER CODE

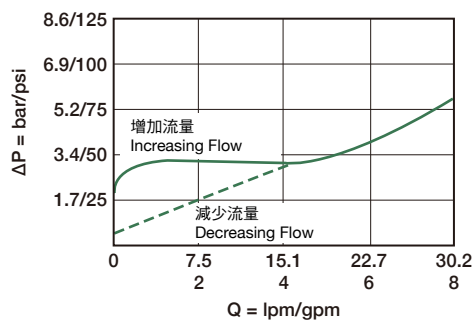
CV	08	-	21	-	N
1	2		1		3

1	▶ 型號 Model Name	CV-21
2	▶ 閥規格大小 Valve Size	08
3	▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop

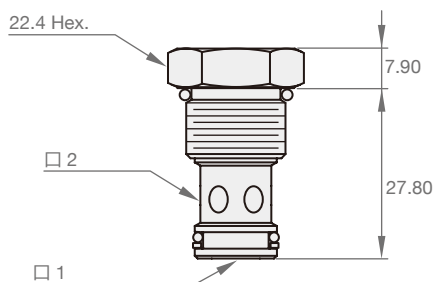
□ 2 → □ 1
Port 2 → Port 1



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

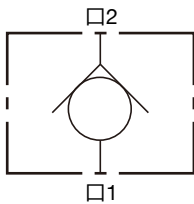
(單位 unit : mm)



CV10-21



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
操作壓力 Operating Pressure (bar)	210
耐壓 Proof Pressure (bar)	250
流量 Flow (l/min)	56
內洩量 Internal Leakage (cc/min)	0.1
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.08

採購選型 ORDER CODE

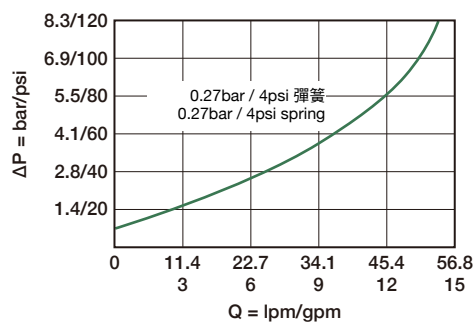
CV	10	-	21	-	N	-	25
1	2		1		3		4

1 ▶	型號 Model Name	CV-21
2 ▶	閥規格大小 Valve Size	10
3 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton
4 ▶	偏置彈簧 Bias Spring	25 1.75bar (25psi)

曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop

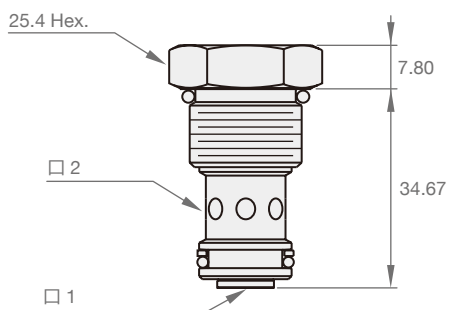
□ 2 → □ 1
Port 2 → Port 1



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

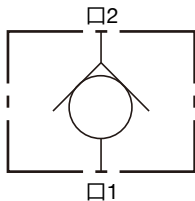
(單位 unit : mm)



CV12-21



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-2
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	250
流量 Flow (l/min)	113.6
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	47.5
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.165

採購選型 ORDER CODE

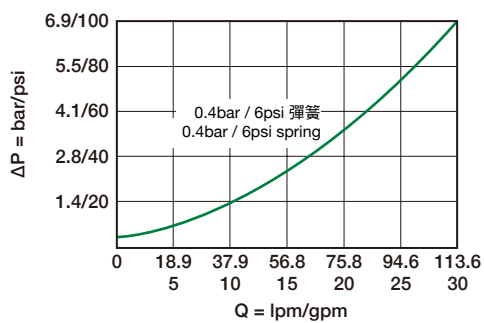
CV	12	-	21	-	N
1	2		1		3

1	▶ 型號 Model Name	CV-21
2	▶ 閥規格大小 Valve Size	12
3	▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop

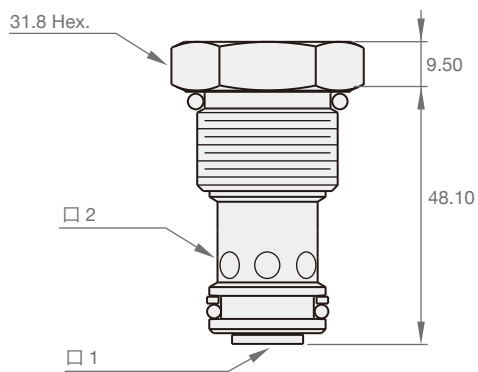
□ 2 → □ 1
Port 2 → Port 1



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

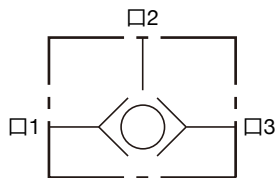
(單位 unit : mm)



LS04-B30



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-04-3
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	350
流量 Flow (l/min)	4.8
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	5.4 ~ 6.7
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.01

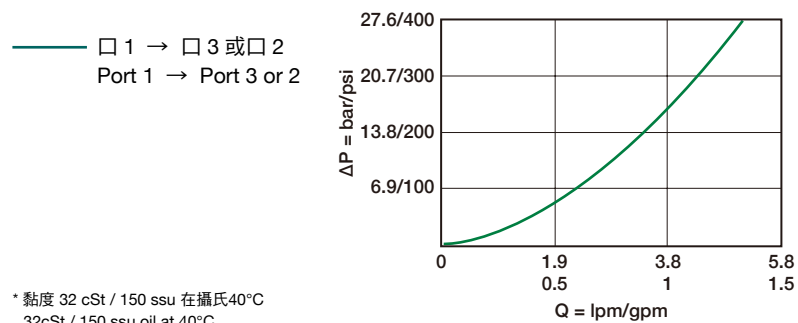
採購選型 ORDER CODE

LS	04	-	B30	-	N
1	2		1		3

1 ▶	型號 Model Name	LS-B30
2 ▶	閥規格大小 Valve Size	04
3 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

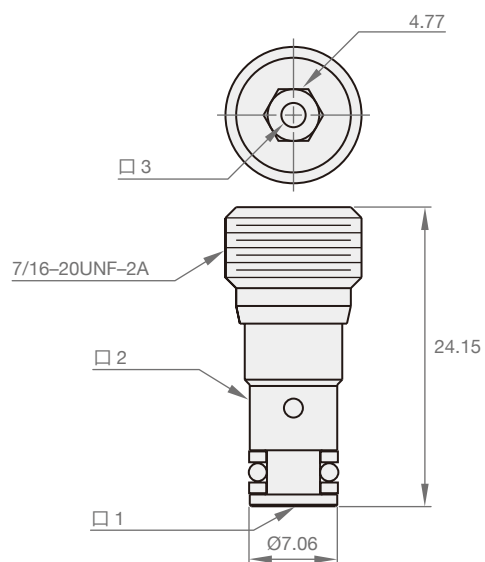
曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop



尺寸 DIMENSION

(單位 unit : mm)



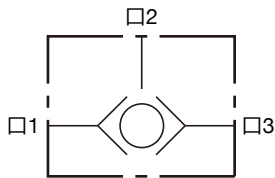
LS08-30



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-3
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	390
流量 Flow (l/min)	18.9
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.065

符號 SYMBOL



採購選型 ORDER CODE

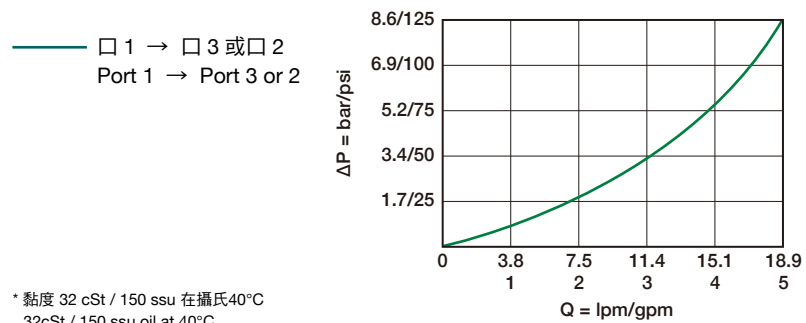
LS **08** - **30** - **N**

① ② ① ③

① ▶ 型號 Model Name	LS-30
② ▶ 閥規格大小 Valve Size	08
③ ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N
	V 氟橡膠 viton

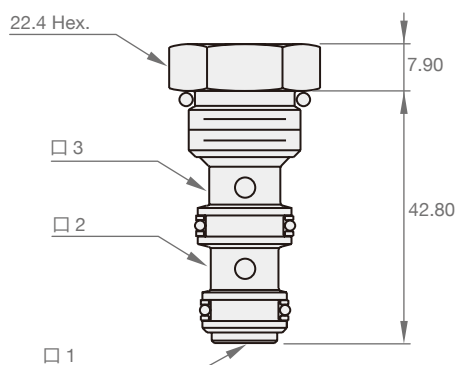
曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop



尺寸 DIMENSION

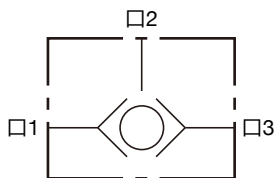
(單位 unit : mm)



LS10-30



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	390
流量 Flow (l/min)	30.2
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.085

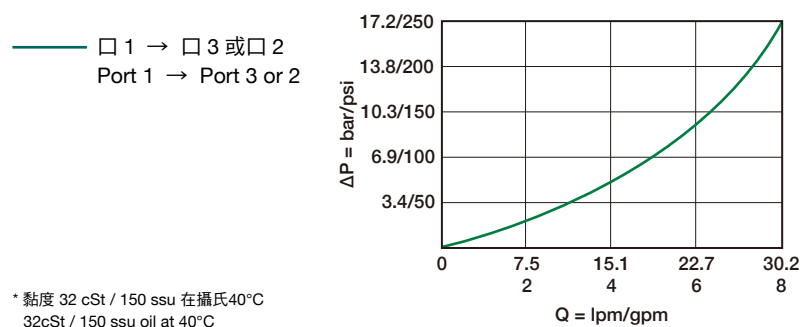
採購選型 ORDER CODE

LS	10	-	30	-	N
1	2		1		3

1	型號 Model Name	LS-30
2	閥規格大小 Valve Size	10
3	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

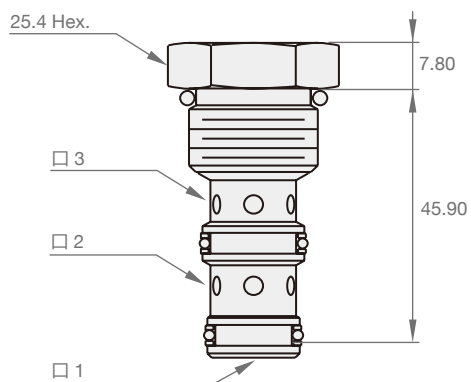
曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop



尺寸 DIMENSION

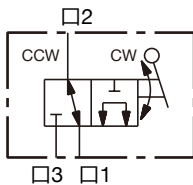
(單位 unit : mm)



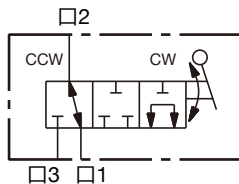
MR10-31



符號 SYMBOL



轉換 Transition :



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
操作壓力 Operating Pressure (bar)	240
耐壓 Proof Pressure (bar)	350
流量 Flow (l/min)	37.9
內洩量 Internal Leakage (cc/min)	164
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.14

採購選型 ORDER CODE

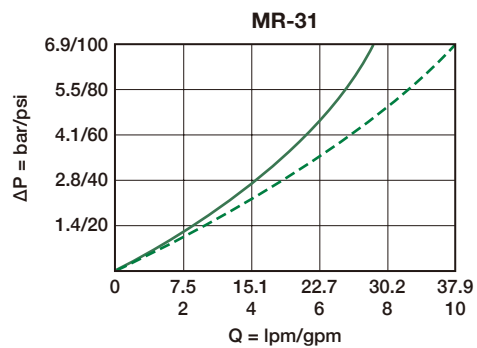
MR	10	-	31	-	N
1	2		1		3

1	型號 Model Name	MR-31
2	閥規格大小 Valve Size	10
3	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop

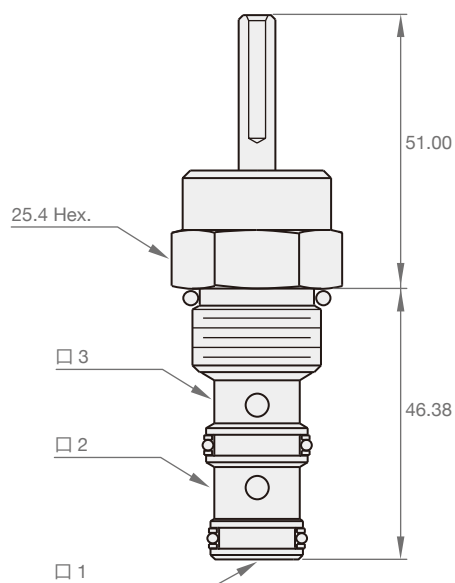
- □ 2 → □ 1
Port 2 → Port 1
- - - □ 3 → □ 1
Port 3 → Port 1



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

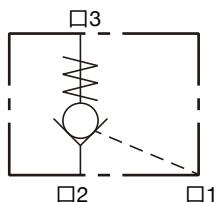
(單位 unit : mm)



PC08-30



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-3
操作壓力 Operating Pressure (bar)	240
先導比 Pilot Ratio	3:1
止逆偏置彈簧 Check Spring Bias (bar)	2.07
流量 Flow (l/min)	30.2
內洩量 Internal Leakage (cc/min)	0.10
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.065

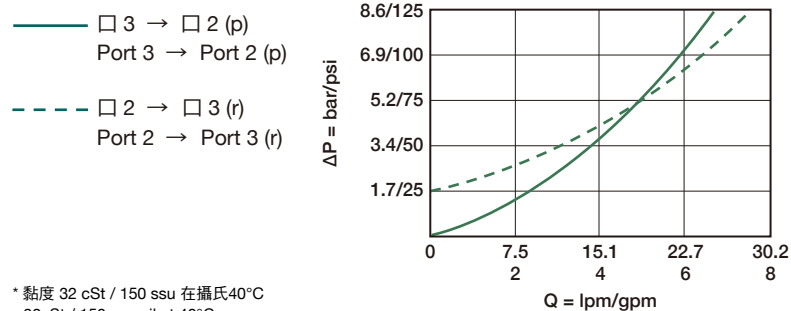
採購選型 ORDER CODE

PC	08	-	30	-	N	-	270
1	2		1		3		4

1	型號 Model Name	PC-30
2	閥規格大小 Valve Size	08
3	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton
4	偏置彈簧 Bias Spring	25 1.7bar (25psi)
		70 4.8bar (70psi)
		90 6.2bar (90psi)
		120 8.2bar (120psi)
		270 18.3bar (270psi)

曲線 PERFORMANCE CURVES

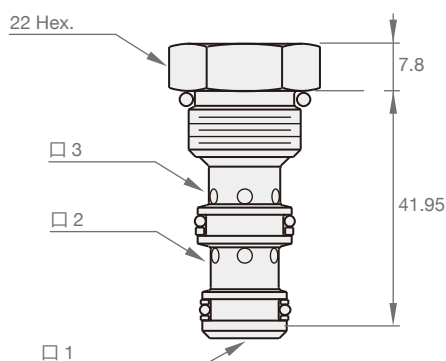
► 壓降 Pressure Drop



* 黏度 32 cSt / 150 ssu 在攝氏40°C
 32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

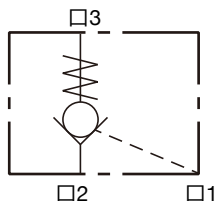
(單位 unit : mm)



PC10-30



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
操作壓力 Operating Pressure (bar)	240
先導比 Pilot Ratio	4:1
止逆偏置彈簧 Check Spring Bias (bar)	2.07
流量 Flow (l/min)	30.2
內洩量 Internal Leakage (cc/min)	0.10
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.090

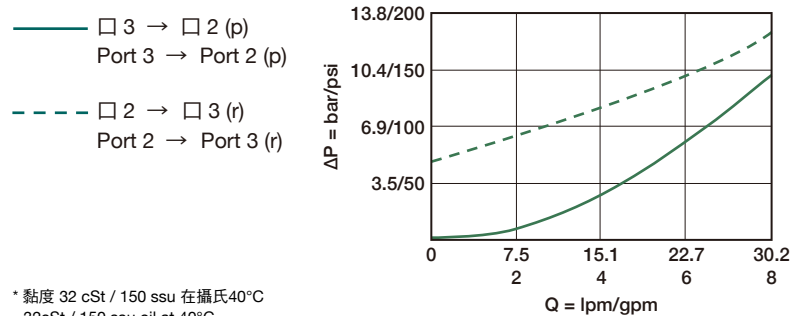
採購選型 ORDER CODE

PC	10	-	30	-	N	-	90
1	2		1		3		4

1	型號 Model Name	PC-30	
2	閥規格大小 Valve Size	10	
3	油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton
4	偏置彈簧 Bias Spring	30	2.1bar (30psi)
		70	4.8bar (70psi)
		90	6.2bar (90psi)
		120	8.2bar (120psi)
		270	18.3bar (270psi)

曲線 PERFORMANCE CURVES

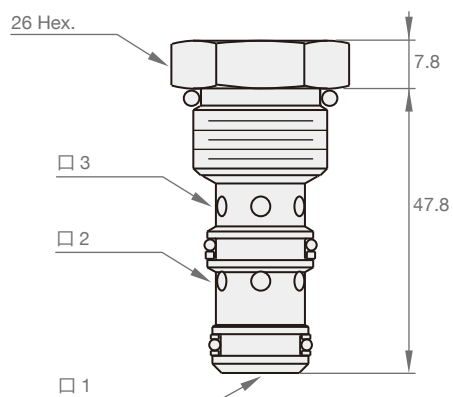
► 壓降 Pressure Drop



* 黏度 32 cSt / 150 ssu 在攝氏40°C
 32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

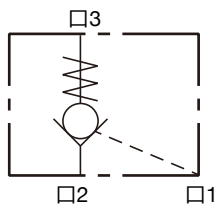
(單位 unit : mm)



PC10-32



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
操作壓力 Operating Pressure (bar)	240
先導比 Pilot Ratio	2:1
止逆偏置彈簧 Check Spring Bias (bar)	2.07
流量 Flow (l/min)	30.2
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.095

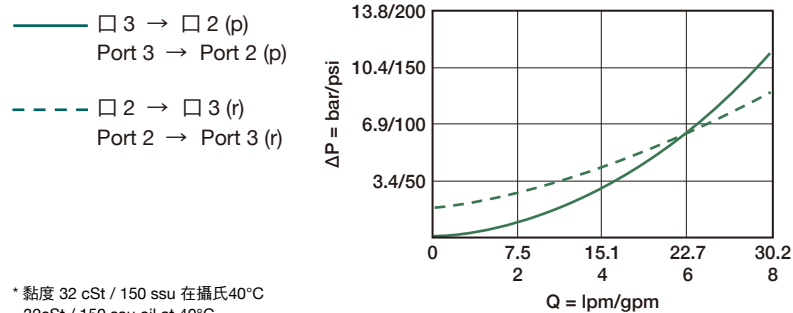
採購選型 ORDER CODE

PC	10	-	32	-	N	-	30
1	2		1		3		4

1	型號 Model Name	PC-32	
2	閥規格大小 Valve Size	10	
3	油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton
4	偏置彈簧 Bias Spring	30	2.1bar (30psi)
		100	6.9bar (100psi)

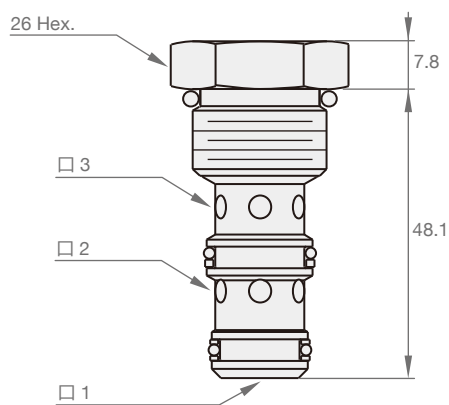
曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop



尺寸 DIMENSION

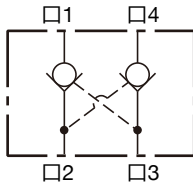
(單位 unit : mm)



DC08-40



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-4
操作壓力 Operating Pressure (bar)	240
流量 Flow (l/min)	19
先導比 Pilot Ratio	3:1
內洩量 Internal Leakage (cc/min)	0.25
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.08

採購選型 ORDER CODE

DC **08** - **40** - **N** - **25**

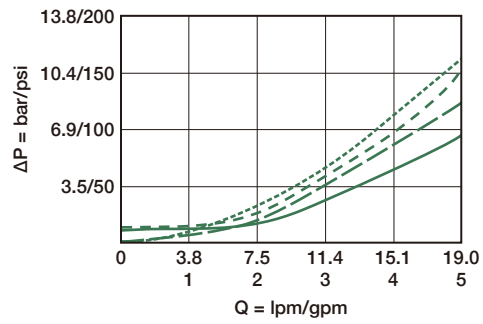
1 2 1 3 4

1 ▶ 型號 Model Name	DC-40	
2 ▶ 閥規格大小 Valve Size	08	
4 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton
4 ▶ 偏置彈簧 Bias Spring	25	1.7 bar (2.5 psi)

曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop

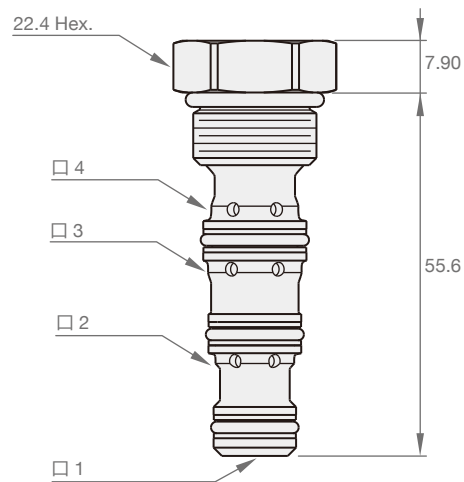
- □ 1 → □ 2 Port 1 → Port 2
- - - - □ 2 → □ 1 Port 2 → Port 1
- - - - □ 4 → □ 3 Port 4 → Port 3
- □ 3 → □ 4 Port 3 → Port 4



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)



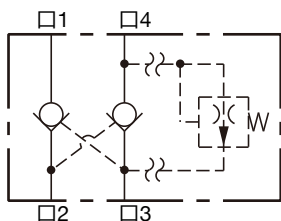
DC10-40



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-4
操作壓力 Operating Pressure (bar)	240
流量 Flow (l/min)	30.3
先導比 Pilot Ratio	3:1
內洩量 Internal Leakage (cc/min)	-
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.12

符號 SYMBOL



採購選型 ORDER CODE

DC	10	-	40	-	N	-	25
1	2		1	3		4	

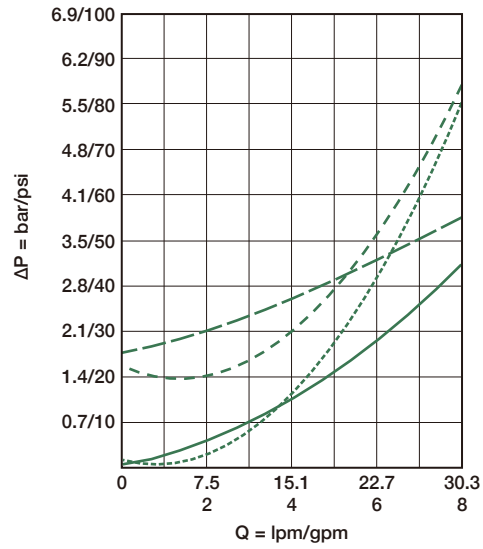
1	型號 Model Name	DC-40
2	閥規格大小 Valve Size	10
4	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton
4	偏置彈簧 Bias Spring	25 1.7 bar (2.5 psi)

曲線 PERFORMANCE CURVES

► 壓降 Pressure Drop

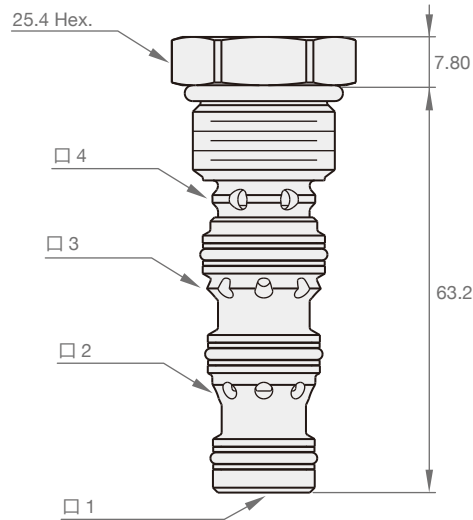
- □ 1 → □ 2 Port 1 → Port 2
- - - - - □ 2 → □ 1 Port 2 → Port 1
- - - - - □ 4 → □ 3 Port 4 → Port 3
- □ 3 → □ 4 Port 3 → Port 4

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

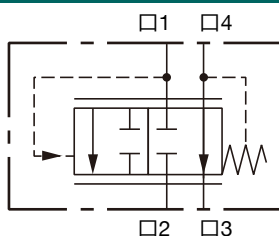
(單位 unit : mm)



PCS4-10



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-4
操作壓力 Operating Pressure (bar)	210
流量 Flow (l/min)	38
內洩量 Internal Leakage (cc/min)	82
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-40 ~ 120°C (-40 ~ 248°F)
重量 Weight (kg)	0.145

採購選型 ORDER CODE

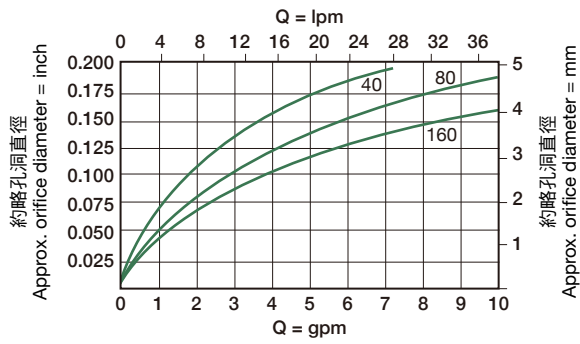
PCS4 - **10** - **V** - **40**

1 2 3 4

1 ▶ 型號 Model Name	PCS4	
2 ▶ 閥規格大小 Valve Size	10	
4 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton
5 ▶ 偏置彈簧 Bias Spring	40	2.8bar (40psi)
	80	5.5bar (80psi)
	160	11.0bar (160psi)

曲線 PERFORMANCE CURVES

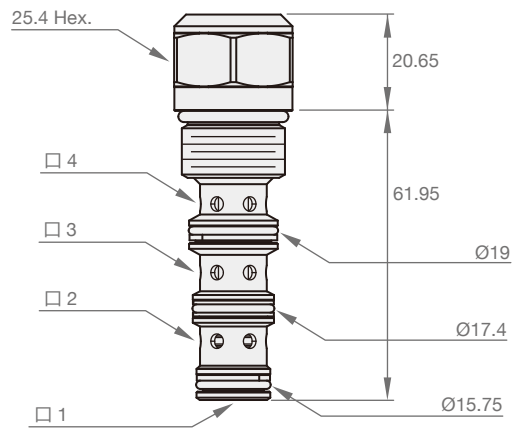
▶ 被控制的流量 Controlled Flow



* 黏度 21.8 cSt / 150 ssu 在攝氏49°C
21.8 cSt / 150 ssu oil at 49°C

尺寸 DIMENSION

(單位 unit : mm)



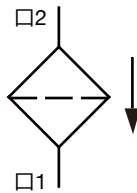
CF10



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
流量 Flow (l/min / gpm)	37.9 / 10
操作壓力 Operating Pressure (bar / psi)	345 / 5000
安裝扭力 Installation Torque (Nm)	40/50
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.14

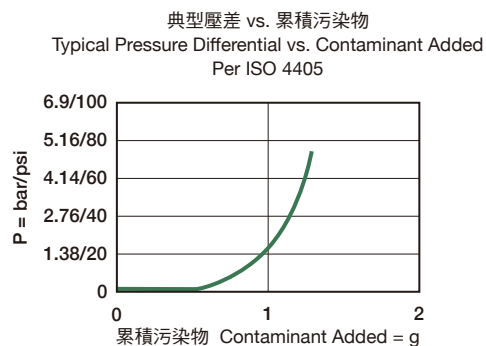
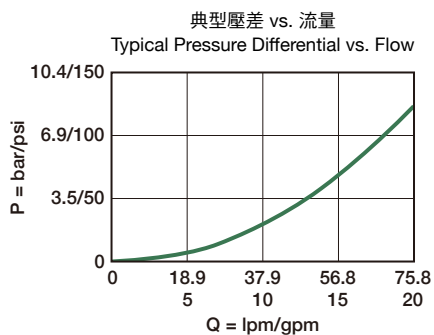
符號 SYMBOL



採購選型 ORDER CODE

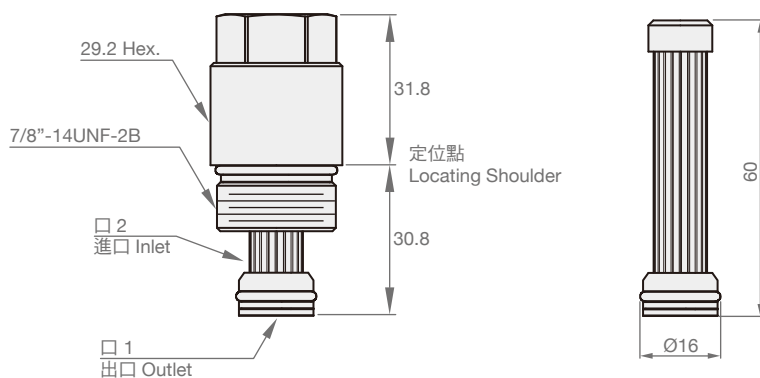
CF	10	-	40	-	N
1	2		3		4

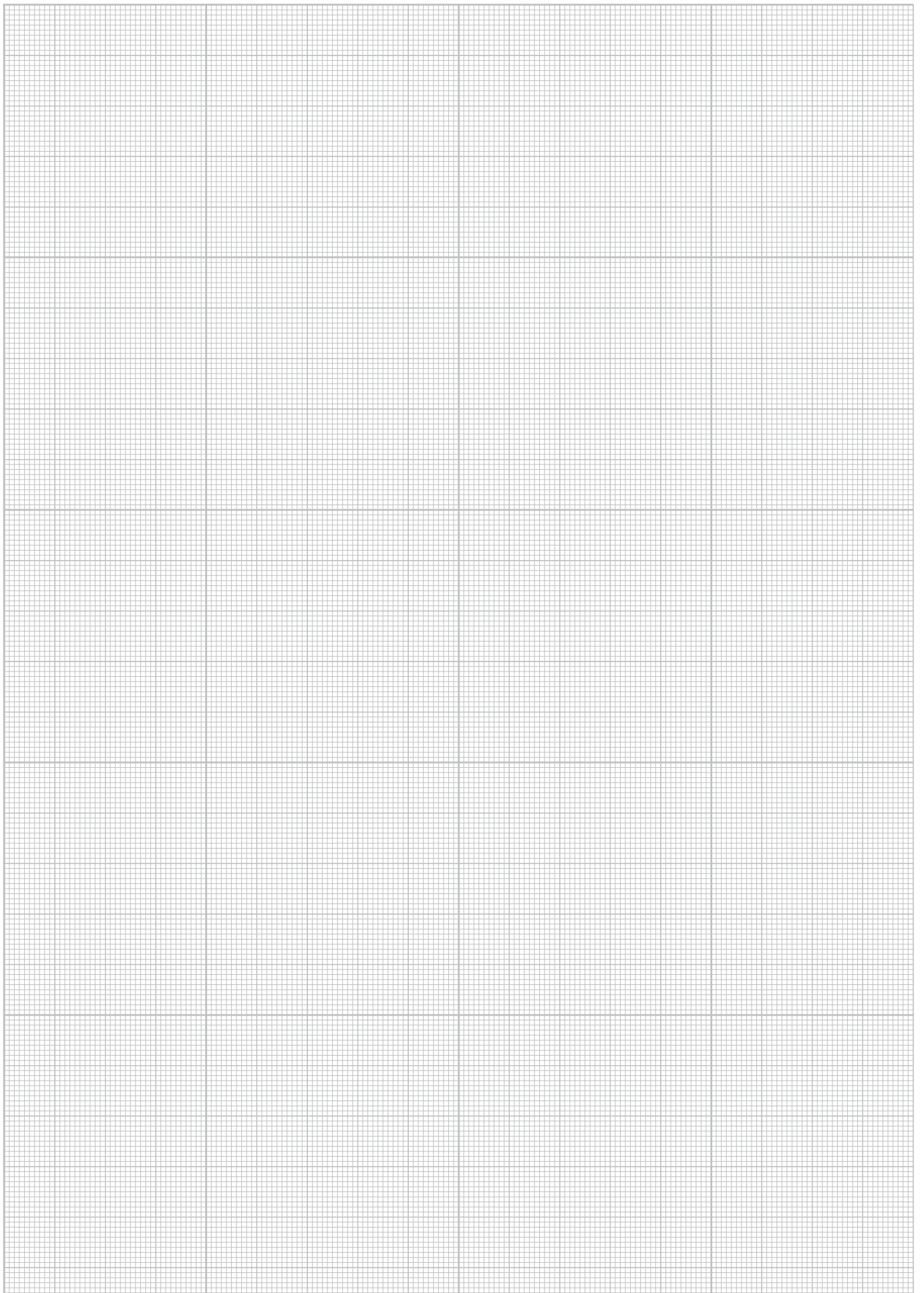
曲線 PERFORMANCE CURVES



尺寸 DIMENSION

(單位 unit : mm)





電磁式插裝閥

Solenoid Cartridge Valve

兩口兩位電磁方向閥 On/Off 2 Ways / 2 Positions Valve

三口兩位電磁方向閥 On/Off 3 Ways / 2 Positions Valve

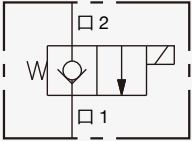
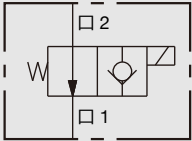
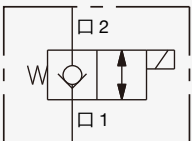
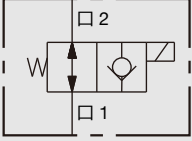
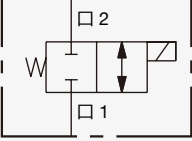
四口兩位電磁方向閥 On/Off 4 Ways / 2 Positions Valve

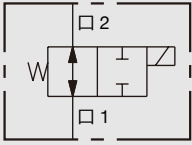
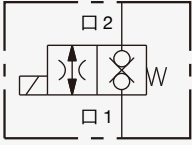
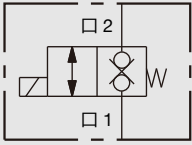
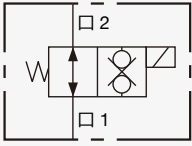
四口三位電磁方向閥 On/Off 4 Ways / 3 Positions Valve

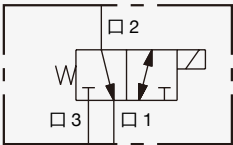
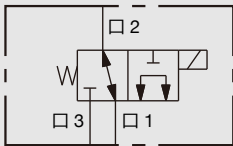
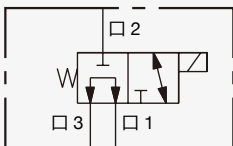
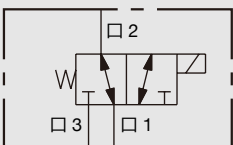
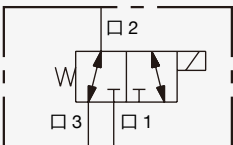
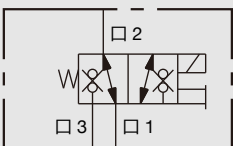


索引 Index

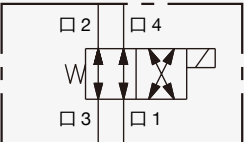
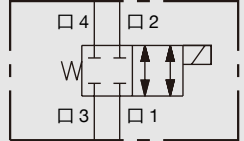
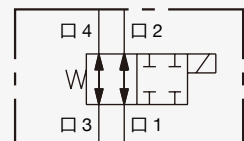
兩口兩位電磁方向閥 ON/OFF 2 WAYS / 2 POSITIONS VALVE

頁碼 Page No.	符號 Symbols	型號 Model No.	安裝閥孔 Cavity	流量 Capacity (l/min)	控制方式 Control Manner	
					none	M
144		SV08-20	SAE-08-2	23	✓	✓
146		SV10-20	SAE-10-2	45	✓	✓
148		SV12-20	SAE-12-2	114	✓	✓
150		SV16-20	SAE-16-2	132	✓	✓
152		SV08-21	SAE-08-2	30	✓	✓
154		SV10-21	SAE-10-2	57	✓	✓
156		SV12-21	SAE-12-2	114	✓	
158		SV16-21	SAE-16-2	132	✓	
160		SV08-22	SAE-08-2	23	✓	✓
162		SV10-22	SAE-10-2	45	✓	✓
164		SV12-22	SAE-12-2	114	✓	✓
166		SV16-22	SAE-16-2	132	✓	✓
168		SV08-23	SAE-08-2	30	✓	✓
170		SV10-23	SAE-10-2	57	✓	✓
172		SV12-23	SAE-12-2	114	✓	✓
174		SV16-23	SAE-16-2	132	✓	✓
176		SV08-24	SAE-08-2	17	✓	
178		SV10-24	SAE-10-2	38	✓	

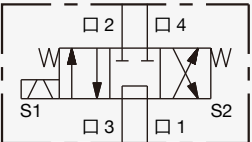
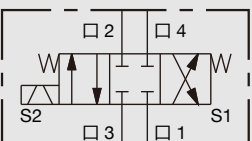
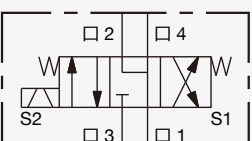
頁碼 Page No.	符號 Symbols	型號 Model No.	安裝閥孔 Cavity	流量 Capacity (l/min)	控制方式 Control Manner	
					none	M
180		SV08-25	SAE-08-2	18	✓	
182		SV10-25	SAE-10-2	22	✓	
184		SV08-26	SAE-08-2	1	✓	
186		SV08-28G	SAE-08-2	19	✓	✓
188		SV38-28	SAE-08-2	19	✓	
190		SV10-28	SAE-10-2	38	✓	
192		SV12-28	SAE-12-2	76	✓	
194		SV10-29	SAE-10-2	75.7	✓	✓
196		SV12-29	SAE-12-2	113.6	✓	✓

頁碼 Page No.	符號 Symbols	型號 Model No.	安裝閥孔 Cavity	流量 Capacity (l/min)	控制方式 Control Manner	
					none	M
198		SV08-30	SAE-08-3	15	✓	
200		SV08-31	SAE-08-3	11	✓	
202		SV10-31	SAE-10-3	22	✓	
204		SV08-33	SAE-08-3	11	✓	
206		SV10-33	SAE-10-3	19	✓	
208		SV08-34	SAE-08-3	11	✓	
210		SV10-34	SAE-10-3	23	✓	
2121		SV08-35	SAE-08-3	11	✓	
214		SV38-38	SAE-08-3	11	✓	

四口兩位電磁方向閥 ON/OFF 4 WAYS / 2 POSITIONS VALVE

頁碼 Page No.	符號 Symbols	型號 Model No.	安裝閥孔 Cavity	流量 Capacity (l/min)	控制方式 Control Manner	
					none	M
216		SV08-40	SAE-08-4	11	✓	
218		SV10-40	SAE-10-4	22	✓	
220		SV08-41	SAE-08-4	11	✓	
222		SV10-41	SAE-10-4	22	✓	
224		SV08-42	SAE-08-4	11	✓	
226		SV10-42	SAE-10-4	22	✓	

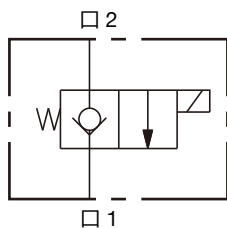
四口三位電磁方向閥 ON/OFF 4 WAYS / 3 POSITIONS VALVE

頁碼 Page No.	符號 Symbols	型號 Model No.	安裝閥孔 Cavity	流量 Capacity (l/min)	控制方式 Control Manner	
					none	M
228		SV08-47A	SAE-08-4	11	✓	✓
230		SV10-47A	SAE-10-4	14	✓	
232		SV08-47C	SAE-08-4	11	✓	✓
234		SV10-47C	SAE-10-4	22	✓	
236		SV08-47D	SAE-08-4	11	✓	✓
238		SV10-47D	SAE-10-4	22	✓	

SV08-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	23
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV08-20 : 0.25, SV08-20M : 0.26

採購選型 ORDER CODE

SV **08** - **20** **M** - **A1** - **DR** - **N**

1 2 3 4 5 6

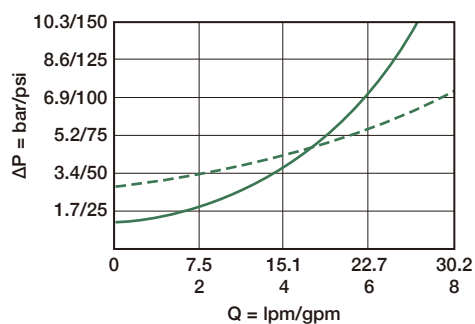
1 ▶ 閥規格大小 Valve Size	08	
2 ▶ 型號 Model Name	SV-20	
3 ▶ 控制方式 Control Manner	空白 none	無手動操控 without manual override
	M	手動操控 manual override
4 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
6 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

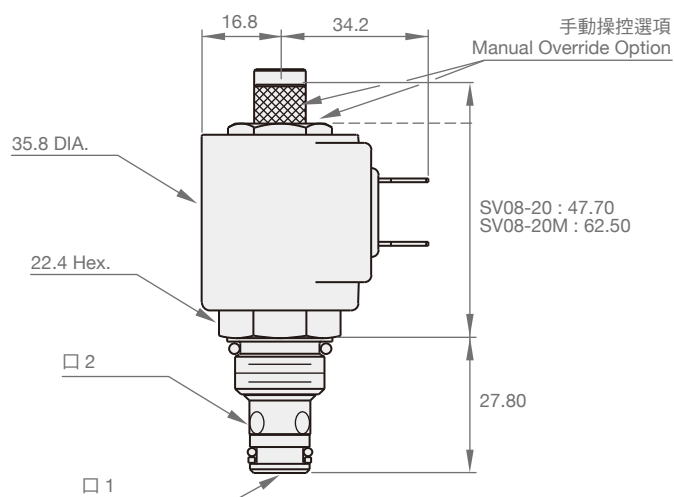
- 不激磁, □1 → □2
de-energized, Port 1 → Port 2
- 激磁, □2 → □1
energized, Port 2 → Port 1

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

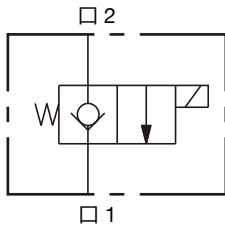
(單位 unit : mm)



SV10-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
流量 Capacity (l/min)	45
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV10-20 : 0.45, SV10-20M : 0.46

採購選型 ORDER CODE

SV **10** - **20** **M** - **A2** - **DG** - **N**

1 2 3 4 5 6

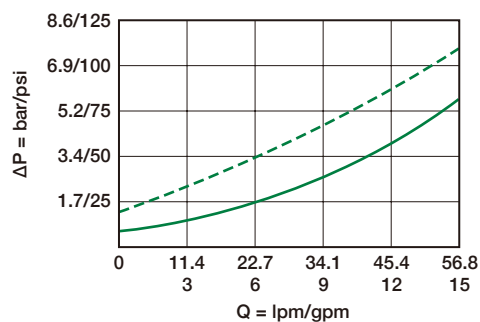
1 ▶ 閥規格大小 Valve Size	10	
2 ▶ 型號 Model Name	SV-20	
3 ▶ 控制方式 Control Manner	空白 none	無手動操控 without manual override
	M	手動操控 manual override
4 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
6 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

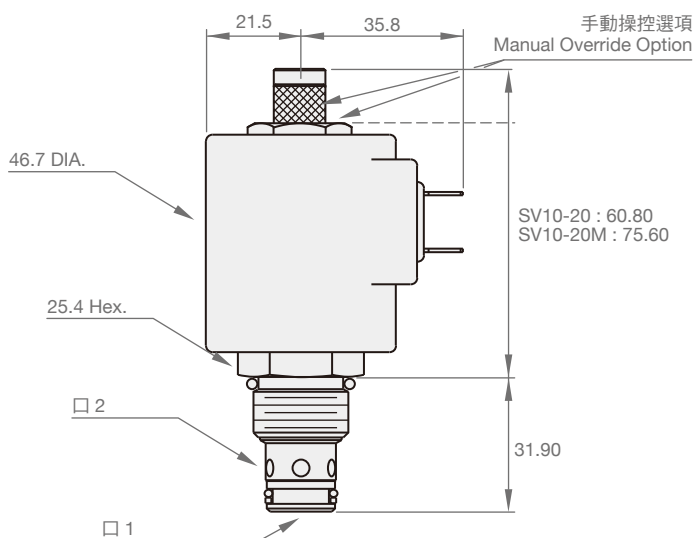
- 不激磁, □1 → □2
de-energized, Port 1 → Port 2
- 激磁, □2 → □1
energized, Port 2 → Port 1

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

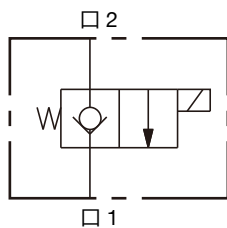
(單位 unit : mm)



SV12-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-2
流量 Capacity (l/min)	114
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	47.4
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV12-20 : 0.53, SV12-20M : 0.54

採購選型 ORDER CODE

SV **12** - **20** **M** - **D1** - **DL** - **N**

1 2 3 4 5 6

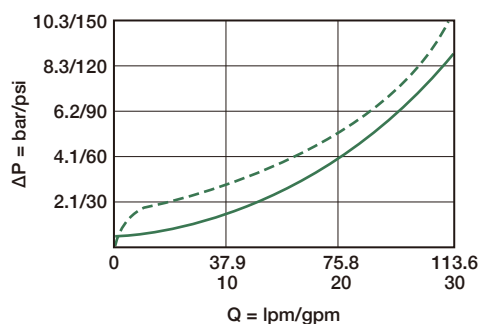
1 ▶ 閥規格大小 Valve Size	12
2 ▶ 型號 Model Name	SV-20
3 ▶ 控制方式 Control Manner	空白 none 無手動操控 without manual override
	M 手動操控 manual override
4 ▶ 電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
	A2 交流電 230 VAC
	D1 直流電 12 VDC
	D2 直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
	DL 連接線型 wiring type
	DR 德馳 DT04-2P Deutsch DT04-2P
6 ▶ 油封材質 Material of Seal	N 丁腈橡膠 buna-N
	V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

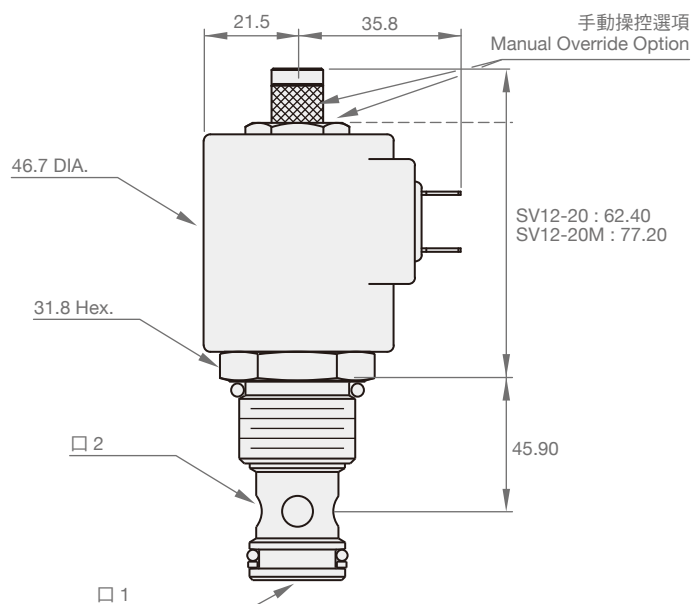
- 不激磁, □1 → □2
de-energized, Port 1 → Port 2
- 激磁, □2 → □1
energized, Port 2 → Port 1

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

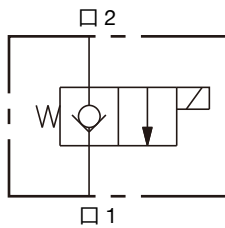
(單位 unit : mm)



SV16-20



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-16-2
流量 Capacity (l/min)	132
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	67.7
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV16-20 : 0.62, SV16-20M : 0.62

採購選型 ORDER CODE

SV **16** - **20** **M** - **D2** - **DL** - **N**

1 2 3 4 5 6

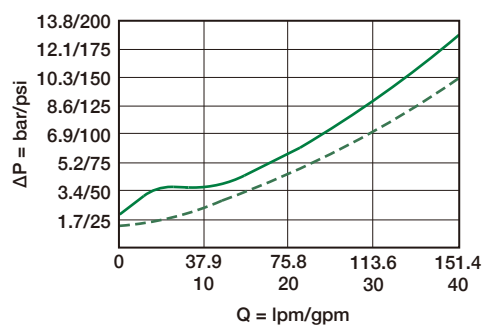
1	閥規格大小 Valve Size	16
2	型號 Model Name	SV-20
3	控制方式 Control Manner	空白 none 無手動操控 without manual override
		M 手動操控 manual override
4	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
5	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
6	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

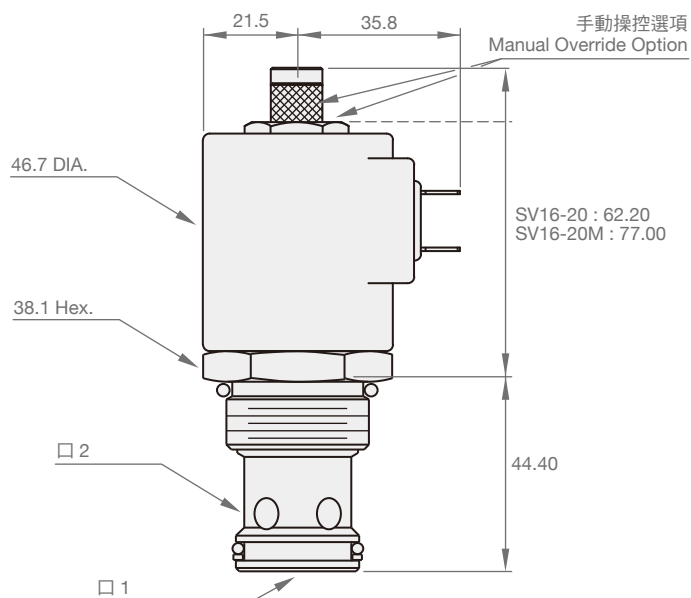
- 不激磁, □1 → □2
de-energized, Port 1 → Port 2
- 激磁, □2 → □1
energized, Port 2 → Port 1

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

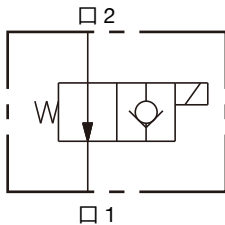
(單位 unit : mm)



SV08-21



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	30
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV08-21 : 0.27, SV08-21M : 0.27

採購選型 ORDER CODE

SV **08** - **21** **M** - **A1** - **DG** - **N**

1 2 3 4 5 6

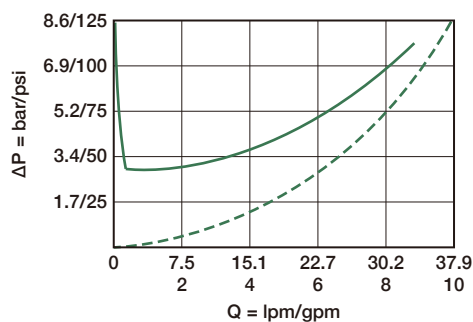
1 ▶ 閥規格大小 Valve Size	08	
2 ▶ 型號 Model Name	21	
3 ▶ 控制方式 Control Manner	空白 none	無手動操控 without manual override
	M	手動操控 manual override
4 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
6 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

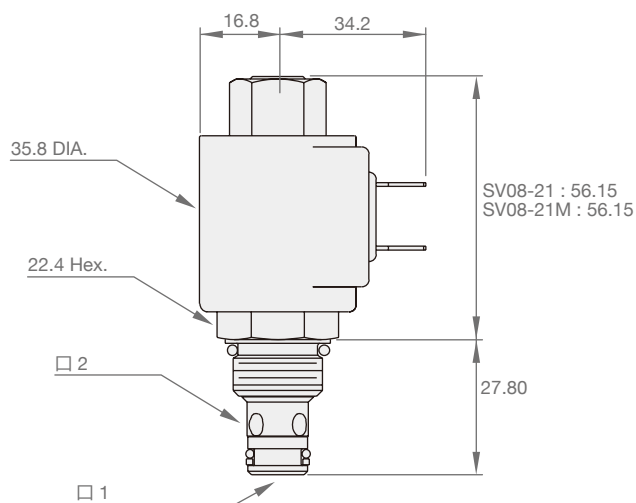
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

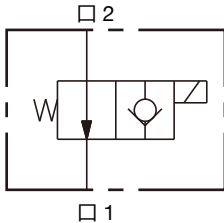
(單位 unit : mm)



SV10-21



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
流量 Capacity (l/min)	57
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV10-21 : 0.49, SV10-21M : 0.49

採購選型 ORDER CODE

SV **10** - **21** **M** - **A2** - **DL** - **N**

1 2 3 4 5 6

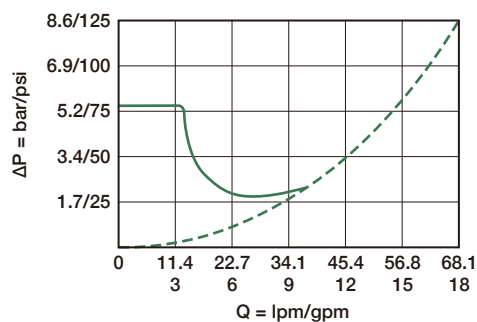
1 ▶ 閥規格大小 Valve Size	10	
2 ▶ 型號 Model Name	21	
3 ▶ 控制方式 Control Manner	空白 none	無手動操控 without manual override
	M	手動操控 manual override
4 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
6 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

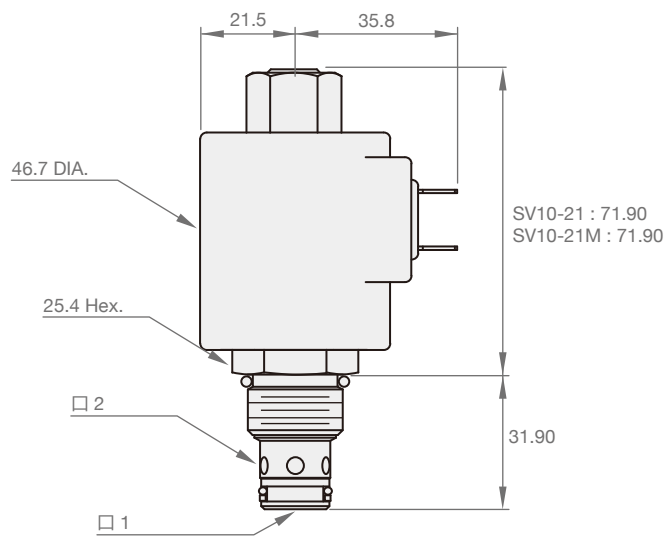
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

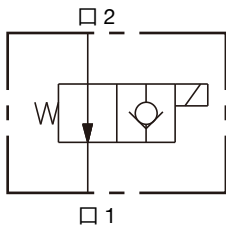
(單位 unit : mm)



SV12-21



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-2
流量 Capacity (l/min)	114
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	47.4
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.57

採購選型 ORDER CODE

SV **12** - **21** - **D1** - **DG** - **N**

1 2 3 4 5

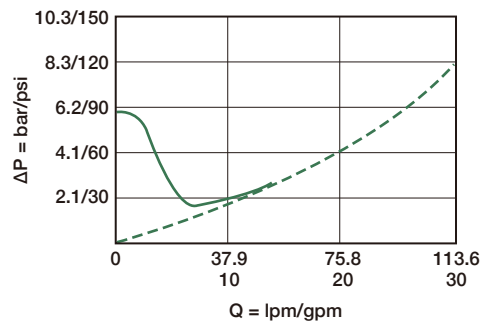
1 ▶ 閥規格大小 Valve Size	12	
2 ▶ 型號 Model Name	21	
3 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
5 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

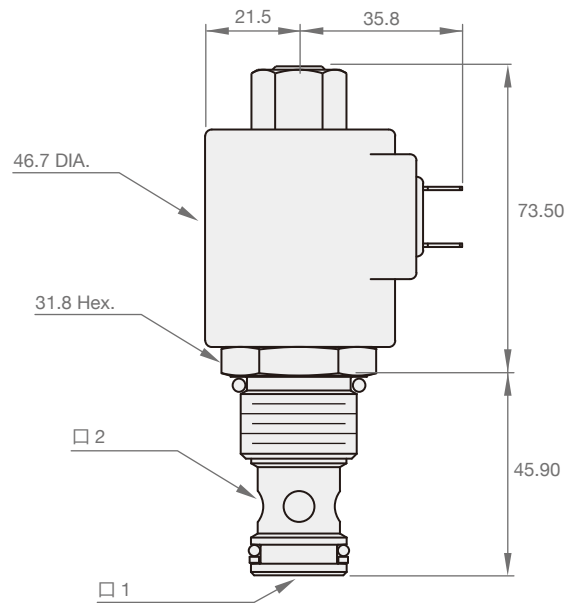
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

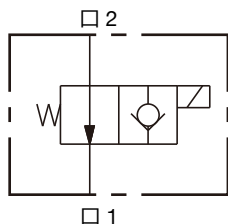
(單位 unit : mm)



SV16-21



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-16-2
流量 Capacity (l/min)	132
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	67.7
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.66

採購選型 ORDER CODE

SV **16** - **21** - **D2** - **DR** - **N**

1 2 3 4 5

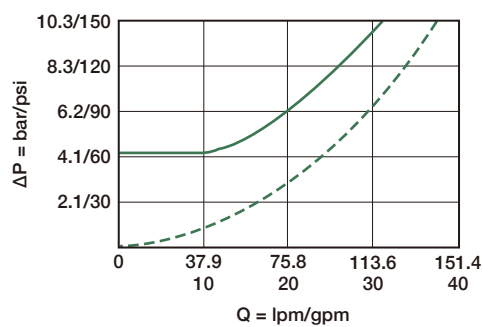
1 ▶ 閥規格大小 Valve Size	16	
2 ▶ 型號 Model Name	21	
3 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
5 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

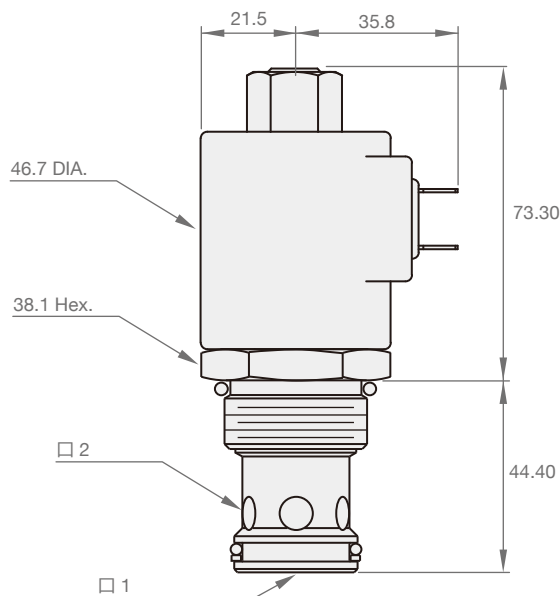
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

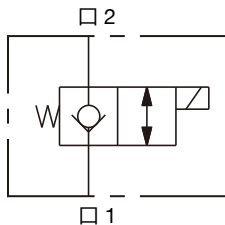
(單位 unit : mm)



SV08-22



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	23
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV08-22 : 0.25, SV08-22M : 0.25

採購選型 ORDER CODE

SV **08** - **22** **M** - **A1** - **DG** - **N**

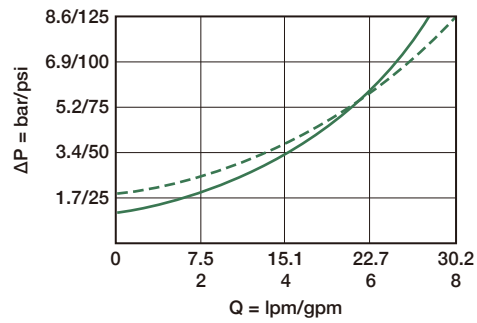
1 2 3 4 5 6

1	閥規格大小 Valve Size	08
2	型號 Model Name	SV-22
3	控制方式 Control Manner	空白 none 無手動操控 without manual override
		M 手動操控 manual override
4	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
5	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
6	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

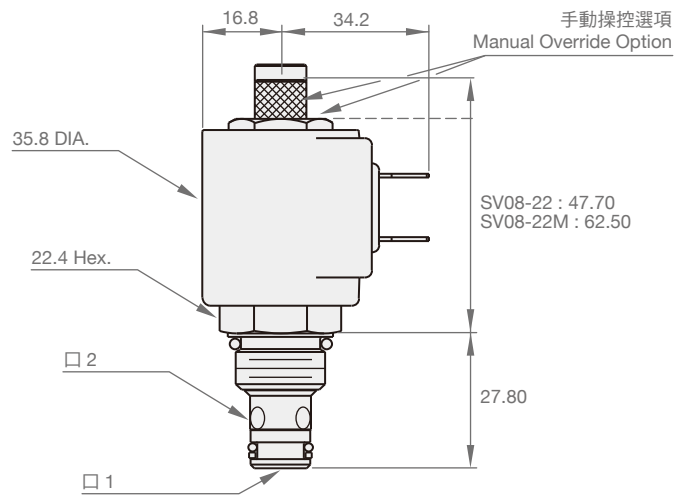
- 不激磁, □1 → □2
de-energized, Port 1 → Port 2
- 激磁, □2 → □1
energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

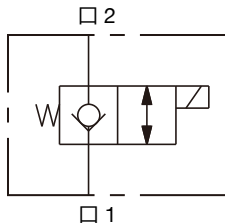
(單位 unit : mm)



SV10-22



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
流量 Capacity (l/min)	45
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV10-22 : 0.47, SV10-22M : 0.48

採購選型 ORDER CODE

SV **10** - **22** **M** - **A2** - **DL** - **N**

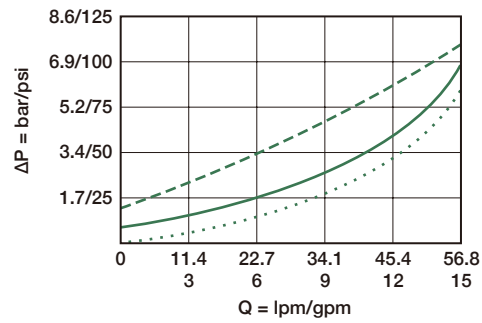
1 2 3 4 5 6

1	閥規格大小 Valve Size	10
2	型號 Model Name	SV-22
3	控制方式 Control Manner	空白 none 無手動操控 without manual override
		M 手動操控 manual override
4	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
5	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
6	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

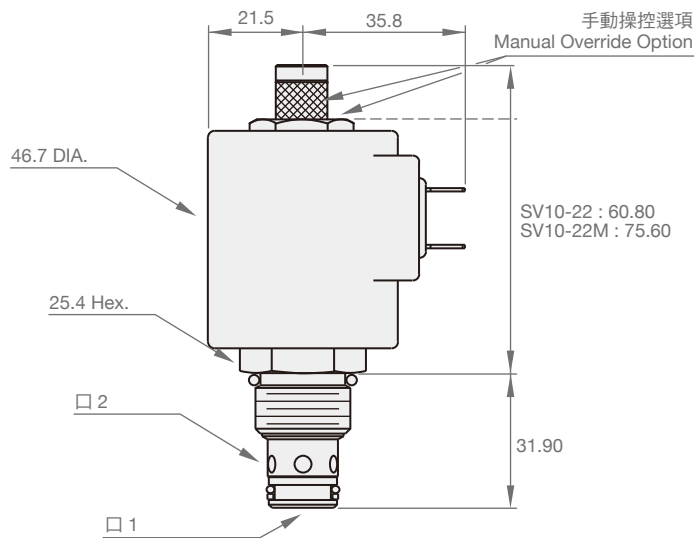
- 不激磁, □1 → □2
de-energized, Port 1 → Port 2
- 激磁, □2 → □1
energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

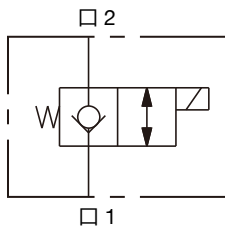
(單位 unit : mm)



SV12-22



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-2
流量 Capacity (l/min)	114
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	47.4
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV12-22 : 0.55, SV12-22M : 0.56

採購選型 ORDER CODE

SV **12** - **22** **M** - **D1** - **DR** - **N**

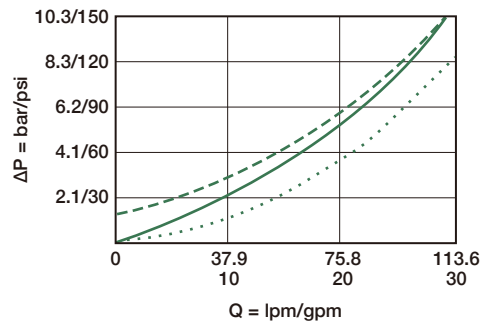
1 2 3 4 5 6

1	閥規格大小 Valve Size	12
2	型號 Model Name	SV-22
3	控制方式 Control Manner	空白 none 無手動操控 without manual override
		M 手動操控 manual override
4	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
5	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
6	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

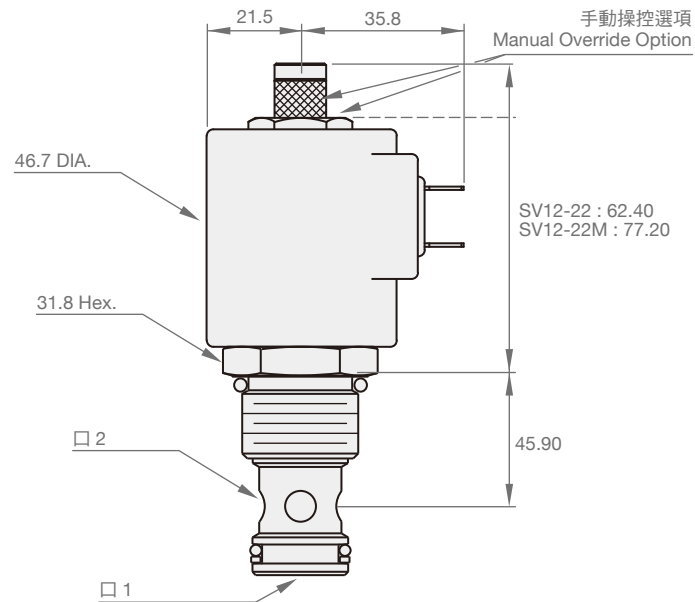
- 不激磁, □1 → □2
de-energized, Port 1 → Port 2
- 激磁, □2 → □1
energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

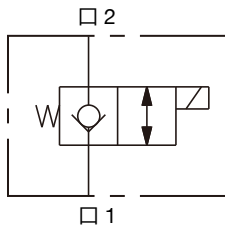
(單位 unit : mm)



SV16-22



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-16-2
流量 Capacity (l/min)	132
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	67.7
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV16-22 : 0.64, SV16-22M : 0.64

採購選型 ORDER CODE

SV **16** - **22** **M** - **D2** - **DG** - **N**

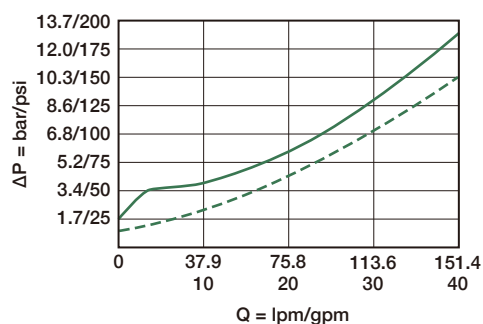
1 2 3 4 5 6

1 ▶ 閥規格大小 Valve Size	16	
2 ▶ 型號 Model Name	SV-22	
3 ▶ 控制方式 Control Manner	空白 none	無手動操控 without manual override
	M	手動操控 manual override
4 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
6 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

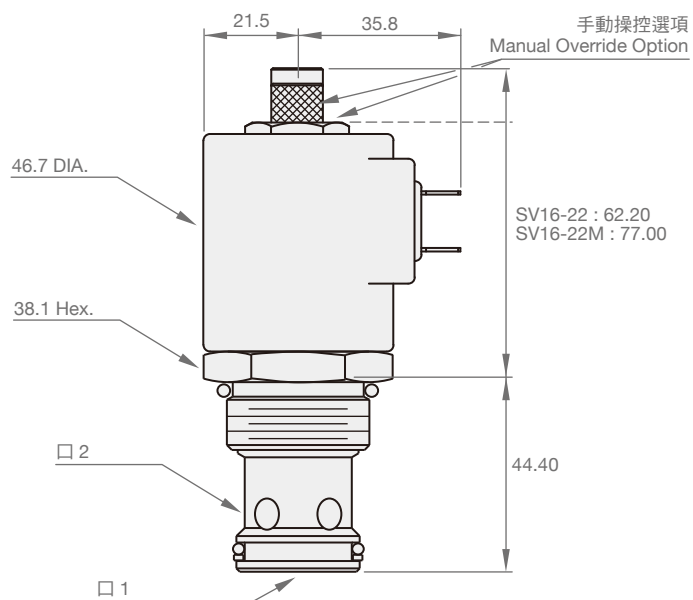
- 不激磁, □1 → □2
de-energized, Port 1 → Port 2
- 激磁, □2 → □1
energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

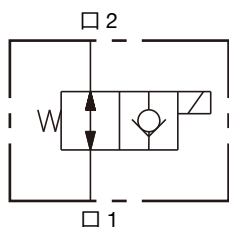
(單位 unit : mm)



SV08-23



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	30
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV08-23 : 0.28, SV08-23M : 0.28

採購選型 ORDER CODE

SV **08** - **23** **M** - **A1** - **DG** - **N**

1 2 3 4 5 6

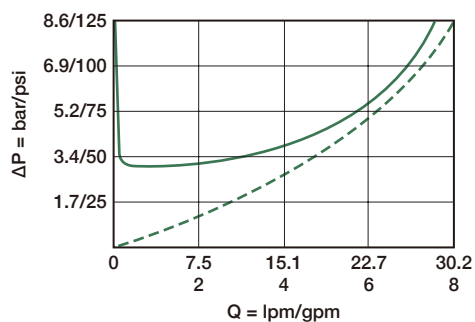
1	閥規格大小 Valve Size	08
2	型號 Model Name	SV-23
3	控制方式 Control Manner	空白 none 無手動操控 without manual override
		M 手動操控 manual override
4	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
5	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
6	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

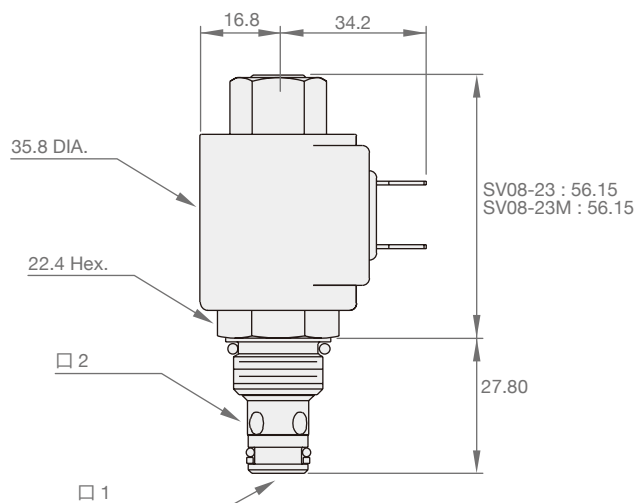
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

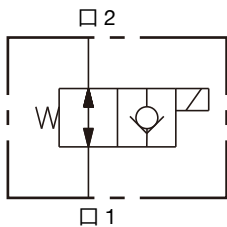
(單位 unit : mm)



SV10-23



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
流量 Capacity (l/min)	57
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV10-23 : 0.49, SV10-23M : 0.49

採購選型 ORDER CODE

SV **10** - **23** **M** - **A2** - **DL** - **N**

1 2 3 4 5 6

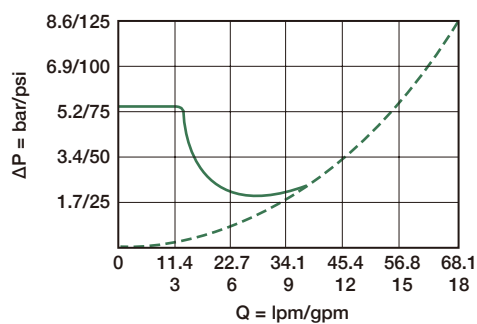
1 ▶ 閥規格大小 Valve Size	10	
2 ▶ 型號 Model Name	SV-23	
3 ▶ 控制方式 Control Manner	空白 none	無手動操控 without manual override
	M	手動操控 manual override
4 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
6 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

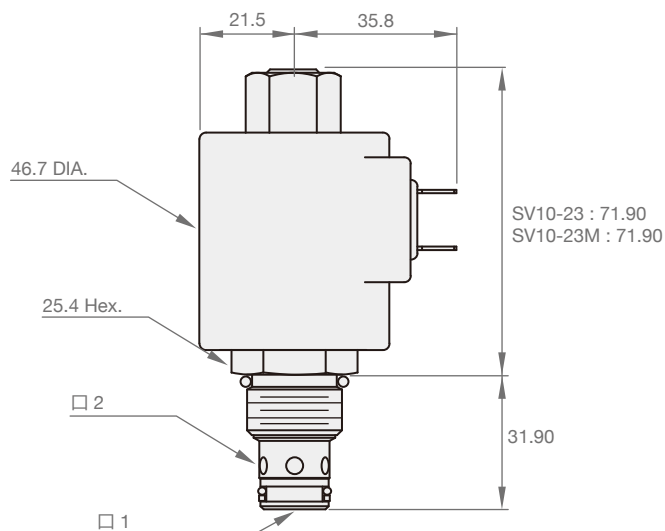
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

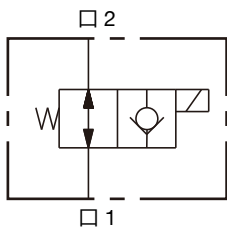
(單位 unit : mm)



SV12-23



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-2
流量 Capacity (l/min)	114
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	47.4
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV12-23 : 0.57, SV12-23M : 0.57

採購選型 ORDER CODE

SV **12** - **23** **M** - **D1** - **DR** - **N**

1 2 3 4 5 6

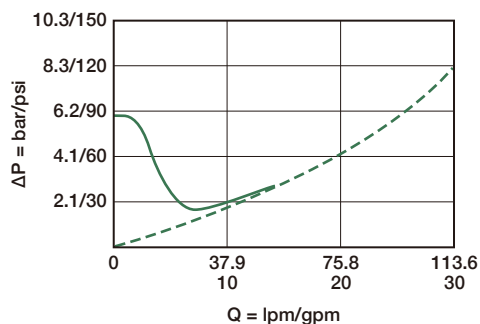
1 ▶ 閥規格大小 Valve Size	12	
2 ▶ 型號 Model Name	SV-23	
3 ▶ 控制方式 Control Manner	空白 none	無手動操控 without manual override
	M	手動操控 manual override
4 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
6 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

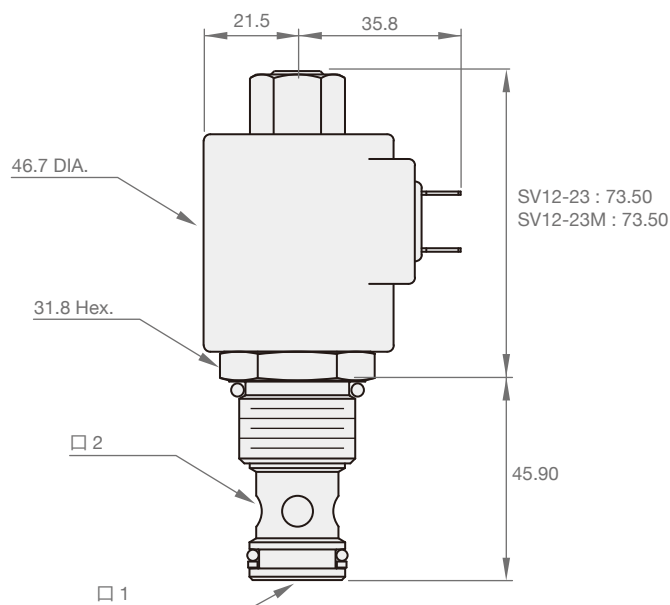
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

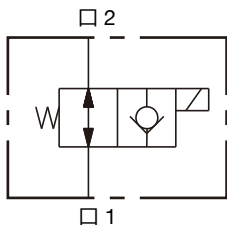
(單位 unit : mm)



SV16-23



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-16-2
流量 Capacity (l/min)	132
最大壓力 Max. Pressure (bar)	350
安裝扭力 Installation Torque (Nm)	67.7
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV16-23 : 0.66, SV16-23M : 0.65

採購選型 ORDER CODE

SV **16** - **23** **M** - **D2** - **DG** - **N**

1 2 3 4 5 6

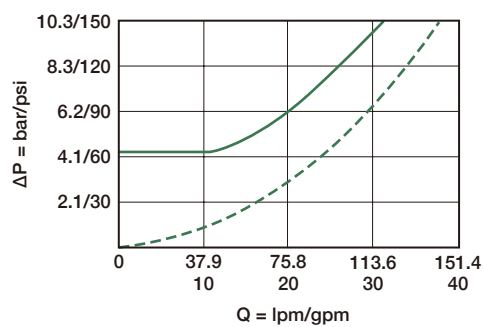
1 ▶ 閥規格大小 Valve Size	16	
2 ▶ 型號 Model Name	SV-23	
3 ▶ 控制方式 Control Manner	空白 none	無手動操控 without manual override
	M	手動操控 manual override
4 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
6 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

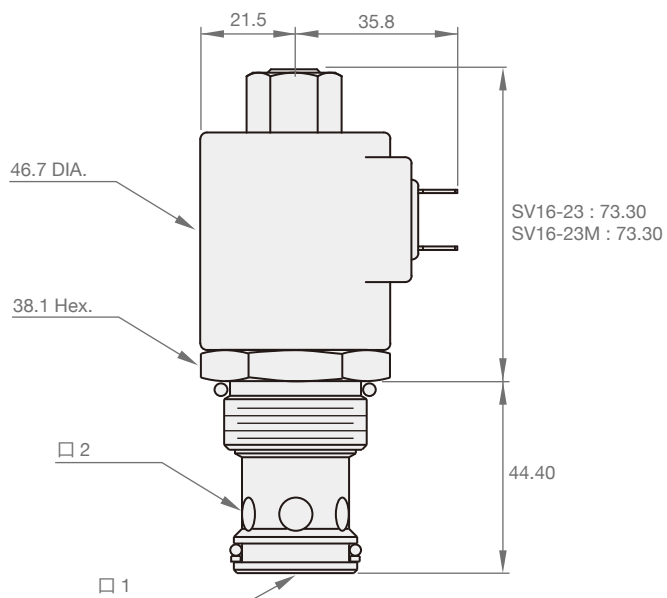
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

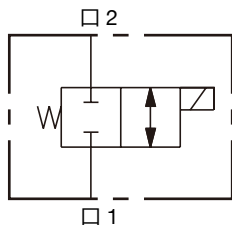
(單位 unit : mm)



SV08-24



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	17
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.25

採購選型 ORDER CODE

SV **08** - **24** - **A1** - **DG** - **N**

1 2 3 4 5

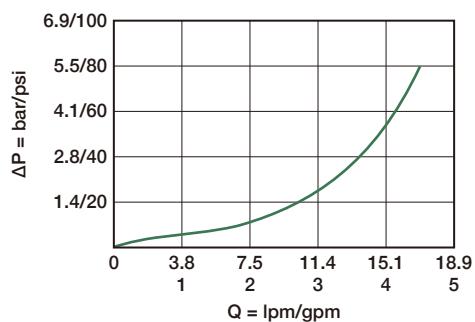
1 ▶ 閥規格大小 Valve Size	08	
2 ▶ 型號 Model Name	SV-24	
3 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
5 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

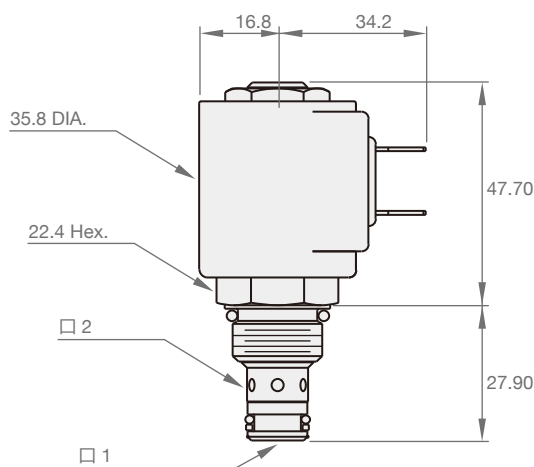
— 激磁
energized

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

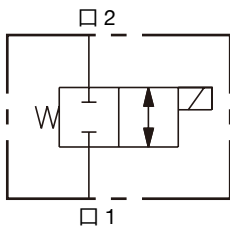
(單位 unit : mm)



SV10-24



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
流量 Capacity (l/min)	38
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.47

採購選型 ORDER CODE

SV **10** - **24** - **D1** - **DR** - **N**

1 2 3 4 5

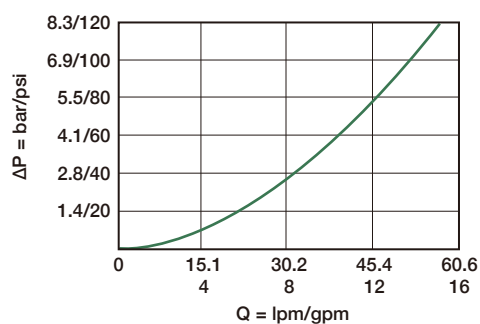
1	閥規格大小 Valve Size	10
2	型號 Model Name	SV-24
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

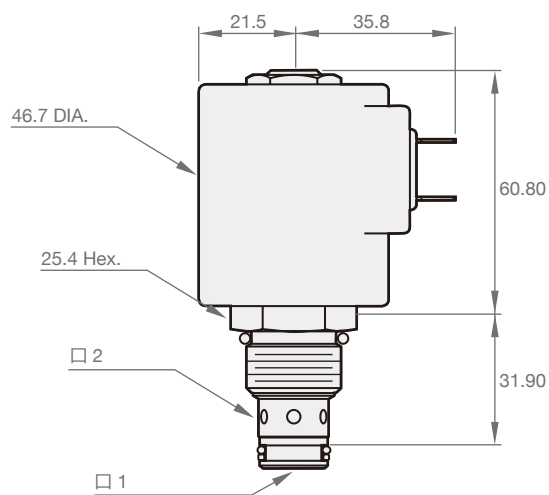
— 激磁
energized

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

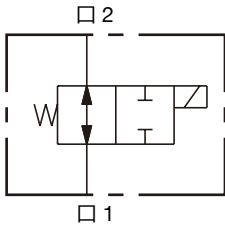
(單位 unit : mm)



SV08-25



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	18
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.25

採購選型 ORDER CODE

SV **08** - **25** - **A2** - **DR** - **N**

1 2 3 4 5

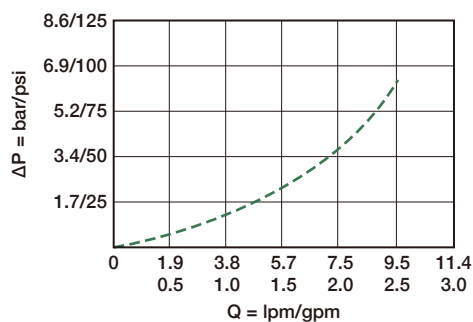
1	閥規格大小 Valve Size	08
2	型號 Model Name	SV-25
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

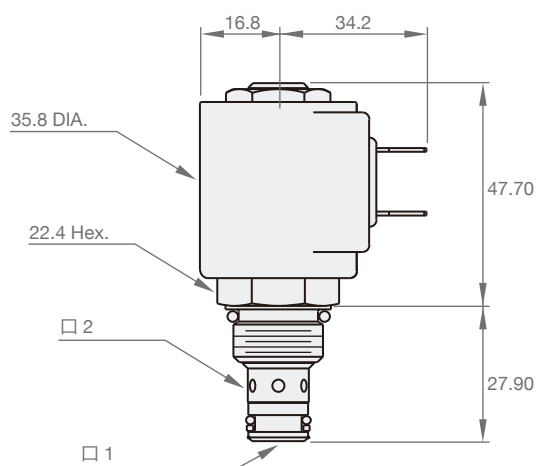
--- 不激磁
de-energized

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

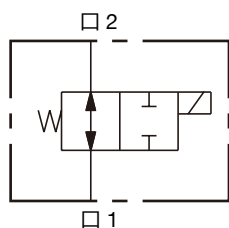
(單位 unit : mm)



SV10-25



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
流量 Capacity (l/min)	22
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.47

採購選型 ORDER CODE

SV **10** - **25** - **D2** - **DG** - **N**

1 2 3 4 5

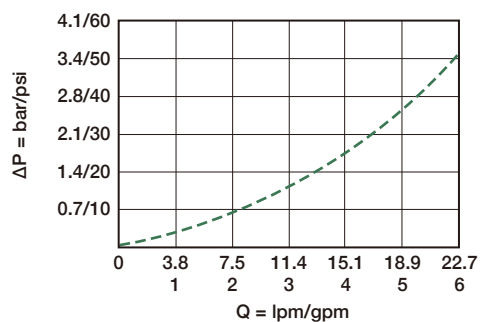
1 ▶ 閥規格大小 Valve Size	10	
2 ▶ 型號 Model Name	SV-25	
3 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
5 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

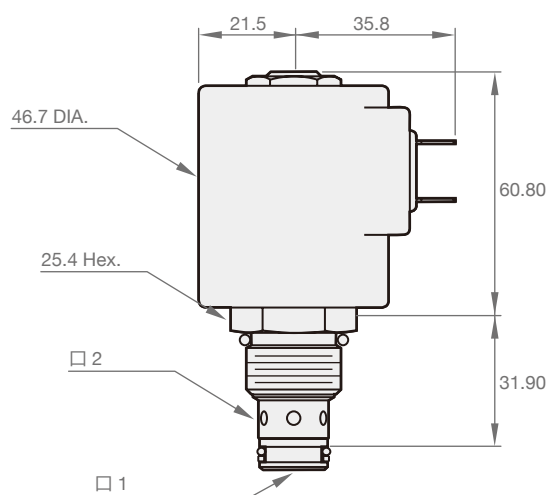
--- 不激磁
de-energized

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

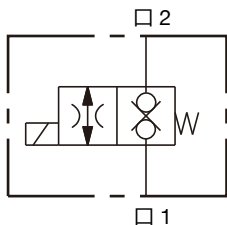
(單位 unit : mm)



SV08-26



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	1
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.26

採購選型 ORDER CODE

SV **08** - **26** - **A1** - **DR** - **N**

1 2 3 4 5

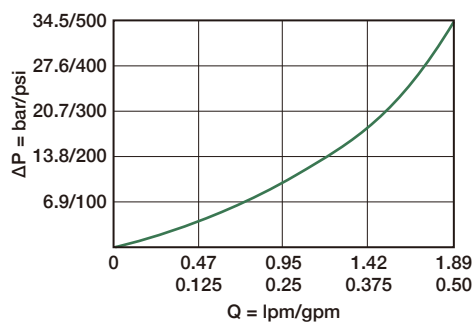
1 ▶ 閥規格大小 Valve Size	08	
2 ▶ 型號 Model Name	SV-26	
3 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
5 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

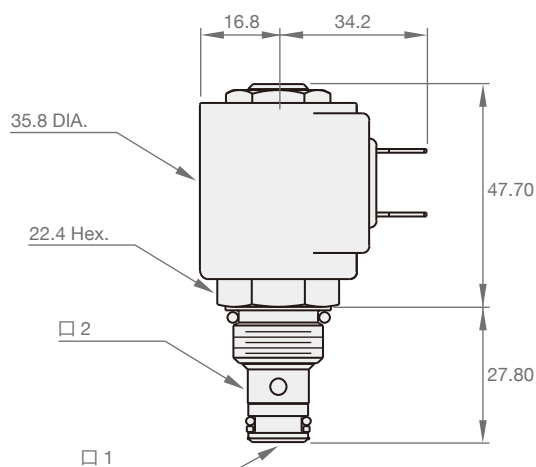
— 激磁 ,
□2 → □1 或 □1 → □2
energized,
Port 2 → Port 1 or
Port 1 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

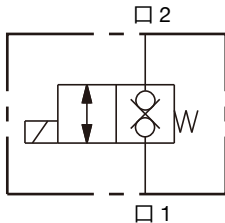
(單位 unit : mm)



SV08-28G



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	19
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV08-28G : 0.30, SV08-28GM : 0.43

採購選型 ORDER CODE

SV **08** - **28G** **M** - **A2** - **DL** - **N**

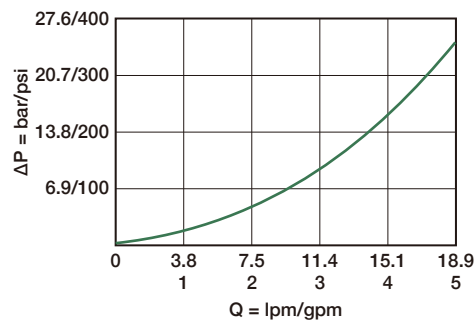
1 2 3 4 5 6

1	▶ 閥規格大小 Valve Size	08	
2	▶ 型號 Model Name	SV-28G	
3	▶ 控制方式 Control Manner	空白 none	無手動操控 without manual override
		M	手動操控 manual override
4	▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
		A2	交流電 230 VAC
		D1	直流電 12 VDC
		D2	直流電 24 VDC
5	▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
		DL	連接線型 wiring type
		DR	德馳 DT04-2P Deutsch DT04-2P
6	▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

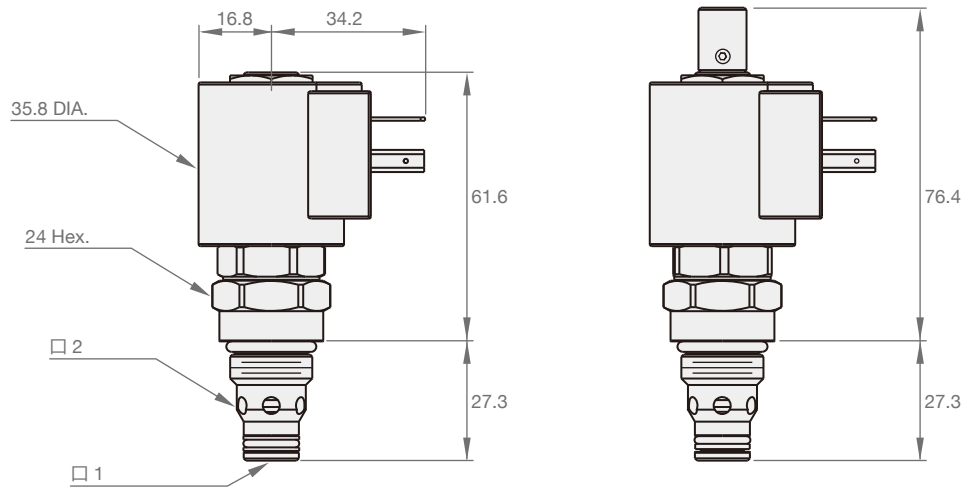
— □1 → □2 或 □2 → □1
 Port 1 → Port 2 or
 Port 2 → Port 1



* 黏度 32 cSt / 150 ssu 在攝氏40°C
 32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

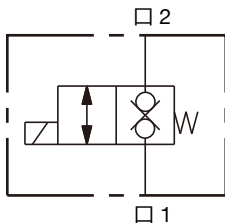
(單位 unit : mm)



SV38-28



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-2
流量 Capacity (l/min)	19
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.48

採購選型 ORDER CODE

SV **38** - **28** - **D1** - **DG** - **N**

1 2 3 4 5

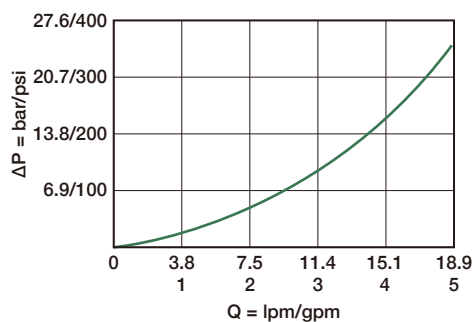
1 ▶ 閥規格大小 Valve Size	38	
2 ▶ 型號 Model Name	SV-28	
3 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
5 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

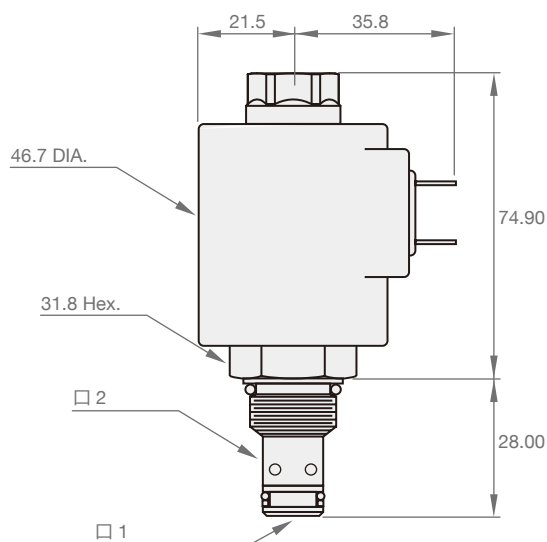
— □1 → □2 或 □2 → □1
 Port 1 → Port 2 or
 Port 2 → Port 1

* 黏度 32 cSt / 150 ssu 在攝氏40°C
 32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

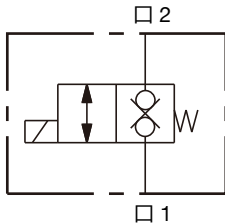
(單位 unit : mm)



SV10-28



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
流量 Capacity (l/min)	38
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.48

採購選型 ORDER CODE

SV **10** - **28** - **D2** - **DG** - **N**

1
2
3
4
5

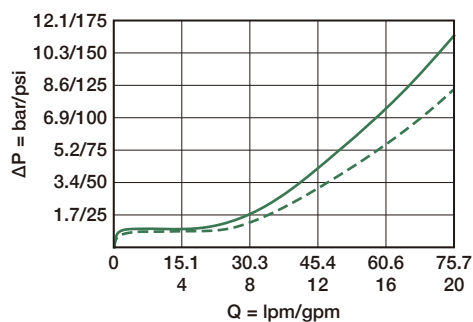
1	閥規格大小 Valve Size	10
2	型號 Model Name	SV-28
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

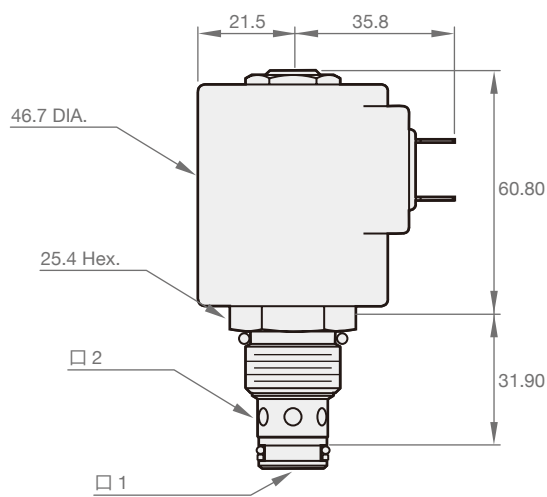
- □1 → □2
Port 1 → Port 2
- - - □2 → □1
Port 2 → Port 1

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

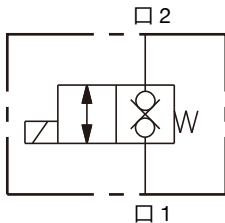
(單位 unit : mm)



SV12-28



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-2
流量 Capacity (l/min)	76
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	47.4
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.55

採購選型 ORDER CODE

SV **12** - **28** - **A1** - **DL** - **N**

1 2 3 4 5

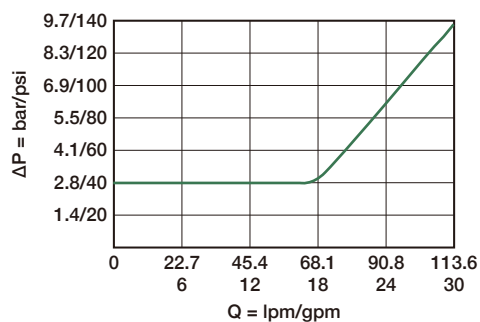
1 ▶ 閥規格大小 Valve Size	12	
2 ▶ 型號 Model Name	SV-28	
3 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
5 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

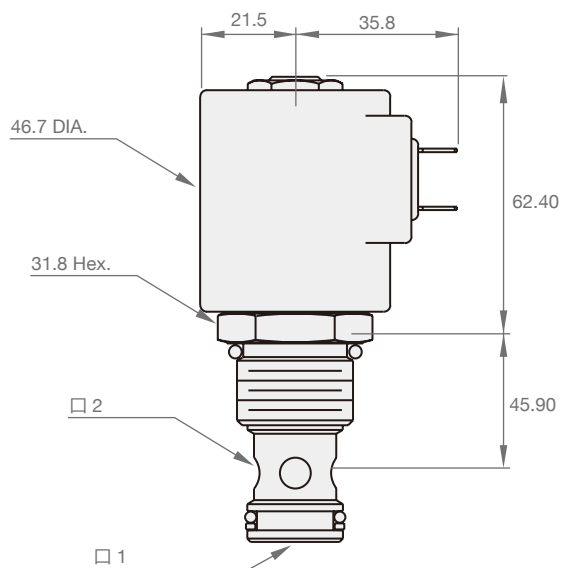
— □1 → □2 或 □2 → □1
 Port 1 → Port 2 or
 Port 2 → Port 1

* 黏度 32 cSt / 150 ssu 在攝氏40°C
 32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

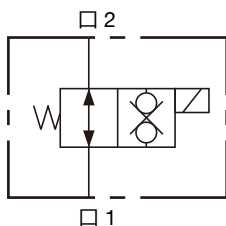
(單位 unit : mm)



SV10-29



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-2
流量 Capacity (l/min)	75.7
最大壓力 Max. Pressure (bar)	240
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV10-29 : 0.48, SV10-29M : 0.48

採購選型 ORDER CODE

SV **10** - **29** **M** - **A1** - **DG** - **N**

1 2 3 4 5 6

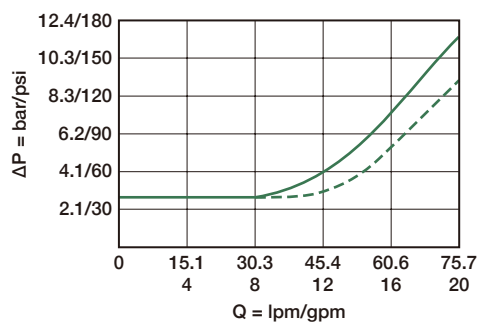
1	閥規格大小 Valve Size	10
2	型號 Model Name	SV-29
3	控制方式 Control Manner	空白 none 無手動操控 without manual override
		M 手動操控 manual override
4	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
5	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
6	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

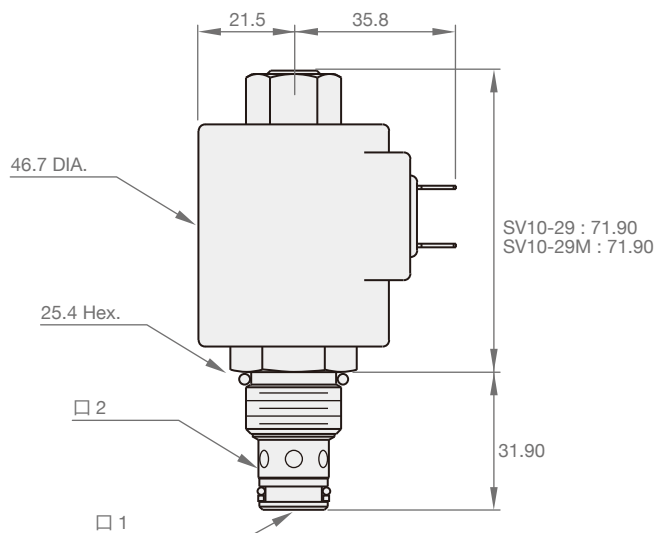
- □1 → □2
Port 1 → Port 2
- - - □2 → □1
Port 2 → Port 1

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

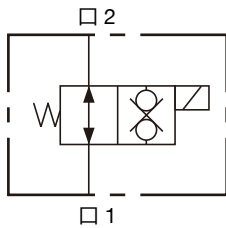
(單位 unit : mm)



SV12-29



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-12-3
流量 Capacity (l/min)	113.6
最大壓力 Max. Pressure (bar)	240
安裝扭力 Installation Torque (Nm)	47.4
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV08-29 : 0.56, SV08-29M : 0.56

採購選型 ORDER CODE

SV **12** - **29** **M** - **D1** - **DR** - **N**

1 2 3 4 5 6

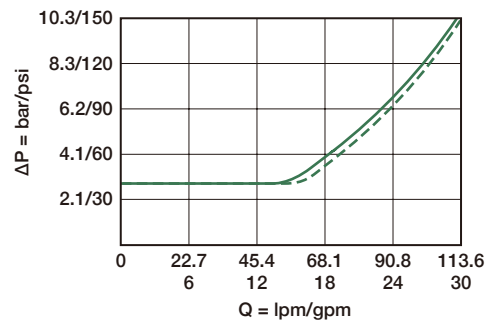
1 ▶	閥規格大小 Valve Size	12
2 ▶	型號 Model Name	SV-29
3 ▶	控制方式 Control Manner	空白 none 無手動操控 without manual override
		M 手動操控 manual override
4 ▶	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
5 ▶	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
6 ▶	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

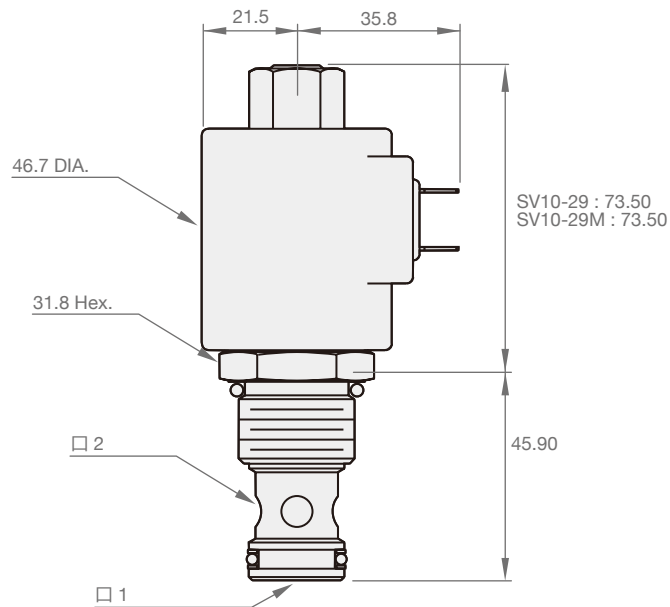
- □1 → □2
Port 1 → Port 2
- - - □2 → □1
Port 2 → Port 1

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

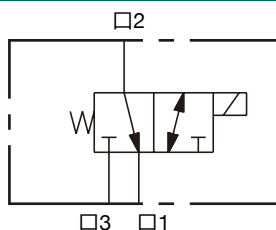
(單位 unit : mm)



SV08-30



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-3
流量 Capacity (l/min)	15
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.26

採購選型 ORDER CODE

SV **08** - **30** - **D1** - **DR** - **N**

1
2
3
4
5

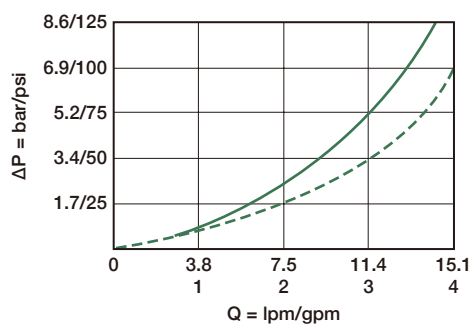
1	▶ 閥規格大小 Valve Size	08	
2	▶ 型號 Model Name	SV-30	
3	▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
		A2	交流電 230 VAC
		D1	直流電 12 VDC
		D2	直流電 24 VDC
4	▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
		DL	連接線型 wiring type
		DR	德馳 DT04-2P Deutsch DT04-2P
5	▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

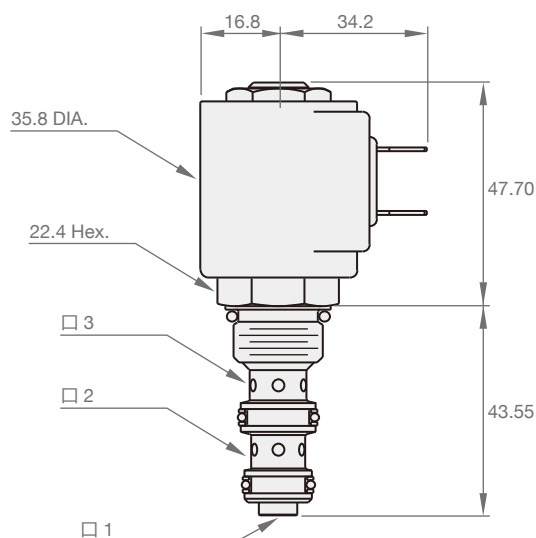
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □3 → □2
energized, Port 3 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

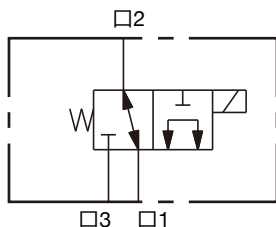
(單位 unit : mm)



SV08-31



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-3
流量 Capacity (l/min)	11
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.26

採購選型 ORDER CODE

SV **08** - **31** - **A2** - **DR** - **N**

1
2
3
4
5

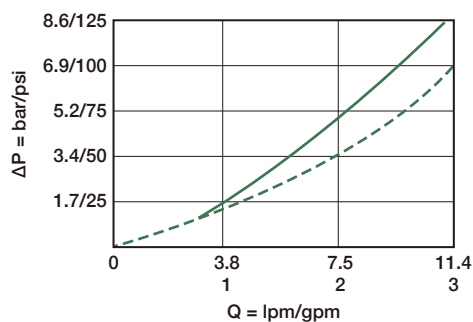
1	閥規格大小 Valve Size	08
2	型號 Model Name	SV-31
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

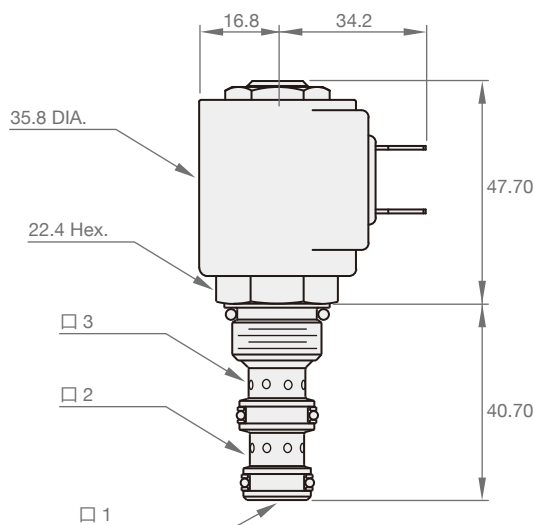
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □1 → □3
energized, Port 1 → Port 3

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

(單位 unit : mm)



SV10-31



規格表 MODEL SPEC.

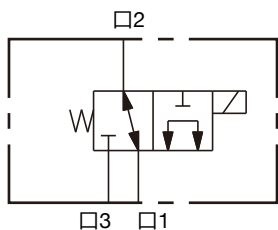
安裝閥孔 Cavity	SAE-10-3
流量 Capacity (l/min)	22
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.48

採購選型 ORDER CODE

SV **10** - **31** - **D2** - **DL** - **N**

1
2
3
4
5

符號 SYMBOL



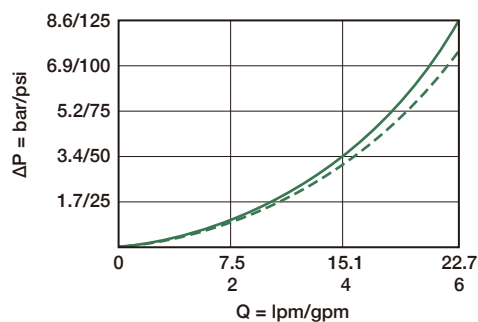
1	閥規格大小 Valve Size	10
2	型號 Model Name	SV-31
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

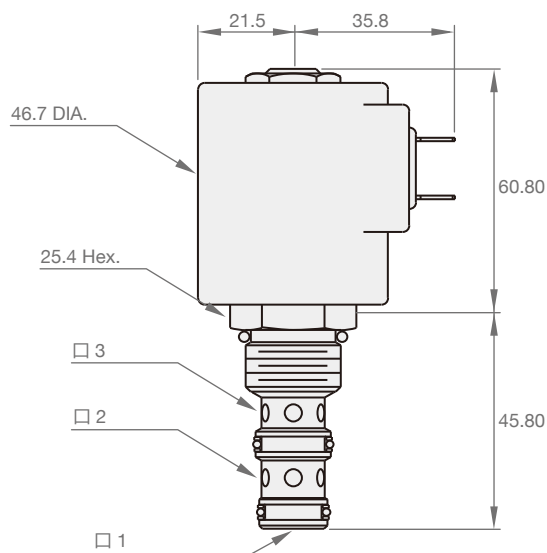
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □1 → □3
energized, Port 1 → Port 3

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

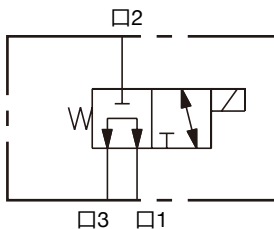
(單位 unit : mm)



SV08-33



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-3
流量 Capacity (l/min)	11
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.26

採購選型 ORDER CODE

SV **08** - **33** - **A1** - **DR** - **N**

1 2 3 4 5

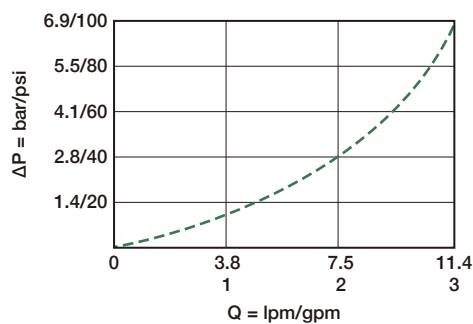
1	閥規格大小 Valve Size	08
2	型號 Model Name	SV-33
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

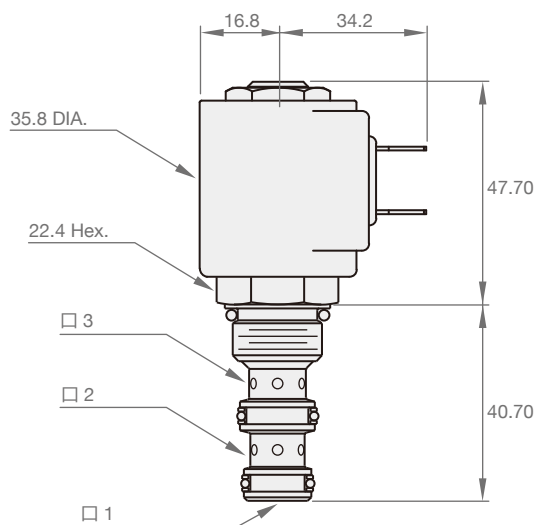
- 不激磁, □3 → □1
de-energized, Port 3 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

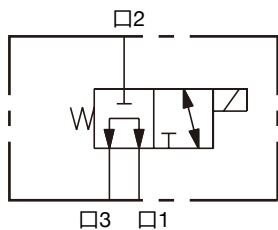
(單位 unit : mm)



SV10-33



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
流量 Capacity (l/min)	19
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.47

採購選型 ORDER CODE

SV **10** - **33** - **A2** - **DR** - **N**

1 2 3 4 5

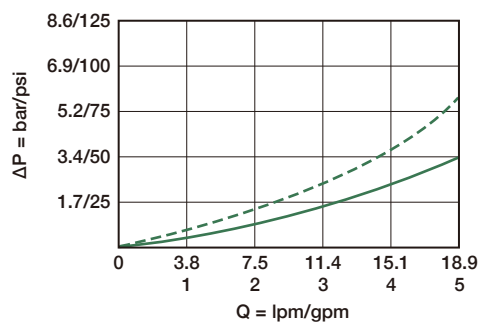
1 ▶ 閥規格大小 Valve Size	10	
2 ▶ 型號 Model Name	SV-33	
3 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
5 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

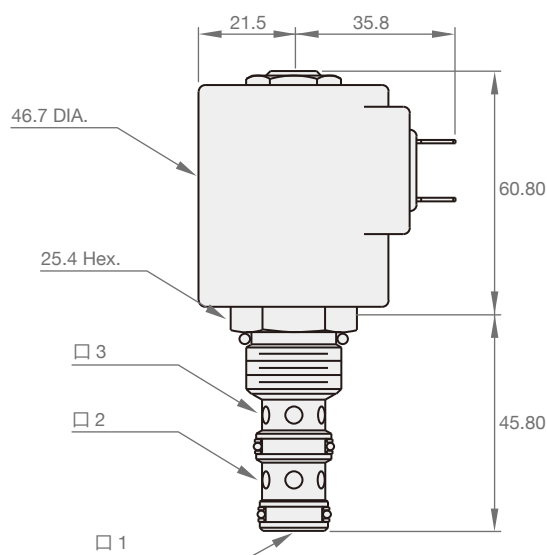
- 不激磁, □3 → □1
de-energized, Port 3 → Port 1
- 激磁, □1 → □2
energized, Port 1 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

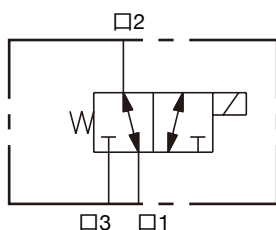
(單位 unit : mm)



SV08-34



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-3
流量 Capacity (l/min)	11
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.26

採購選型 ORDER CODE

SV **08** - **34** - **A1** - **DG** - **N**

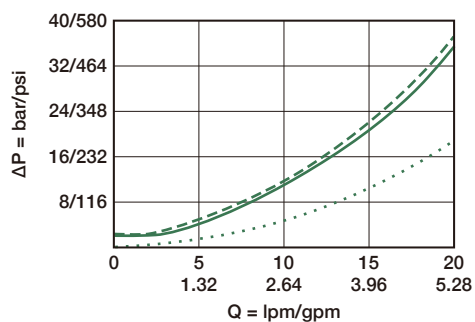
1 2 3 4 5

1	閥規格大小 Valve Size	08
2	型號 Model Name	SV-34
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

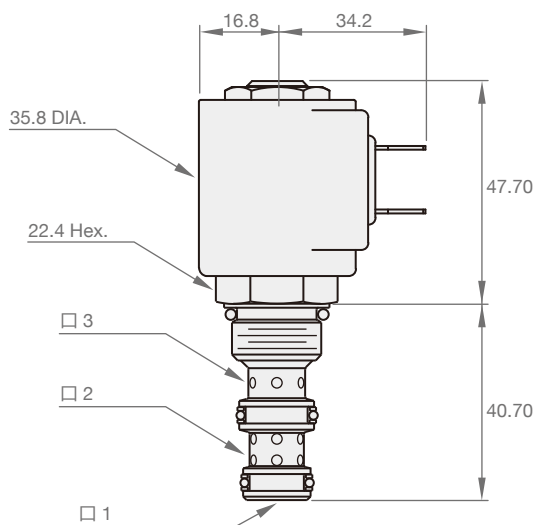
- □3 → □2
Port 3 → Port 2
- □2 → □3
Port 2 → Port 3
- □1 → □2, □2 → □1
Port 1 → Port 2, Port 2 → Port 1



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

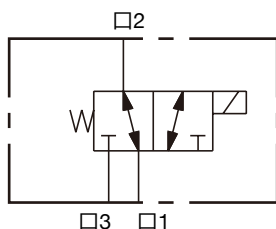
(單位 unit : mm)



SV10-34



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-3
流量 Capacity (l/min)	23
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.48

採購選型 ORDER CODE

SV **10** - **34** - **A2** - **DL** - **N**

1 2 3 4 5

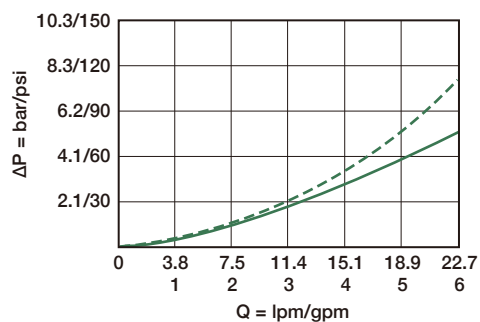
1	閥規格大小 Valve Size	10
2	型號 Model Name	SV-34
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

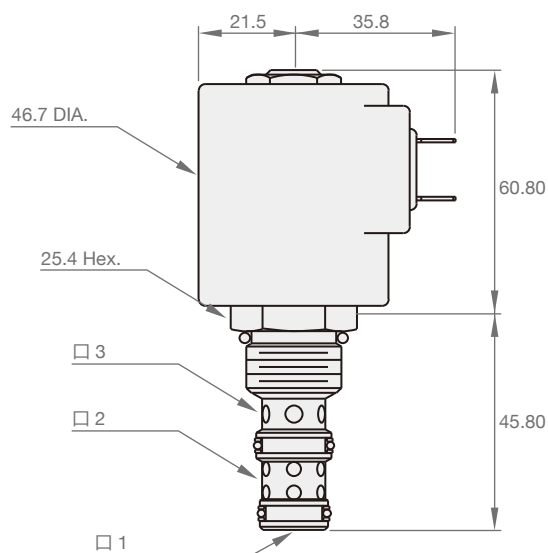
- 不激磁, □2 → □1
de-energized, Port 2 → Port 1
- 激磁, □2 → □3
energized, Port 2 → Port 3

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

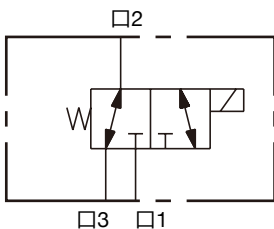
(單位 unit : mm)



SV08-35



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-3
流量 Capacity (l/min)	11
最大壓力 Max. Pressure (bar)	241
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.26

採購選型 ORDER CODE

SV **08** - **35** - **A1** - **DG** - **N**

1 2 3 4 5

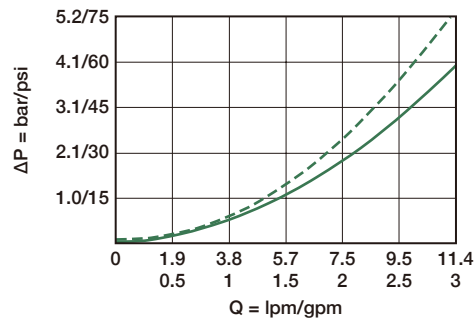
1	閥規格大小 Valve Size	08
2	型號 Model Name	SV-35
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

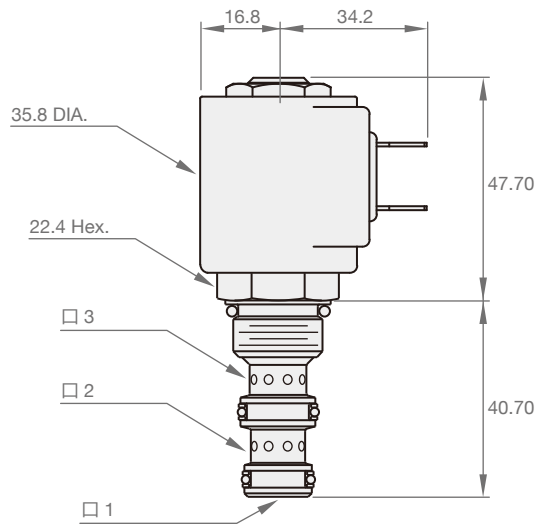
- 不激磁, □2 → □3
de-energized, Port 2 → Port 3
- 激磁, □2 → □1
energized, Port 2 → Port 1

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

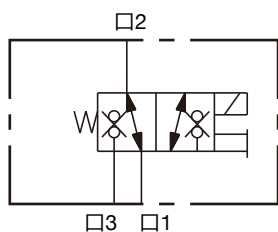
(單位 unit : mm)



SV38-38



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-3
流量 Capacity (l/min)	11
最大壓力 Max. Pressure (bar)	250
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.33

採購選型 ORDER CODE

SV **38** - **38** - **A2** - **DG** - **N**

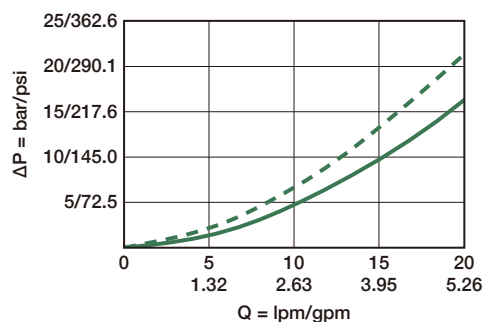
1 2 3 4 5

1	閥規格大小 Valve Size	38
2	型號 Model Name	SV-38
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

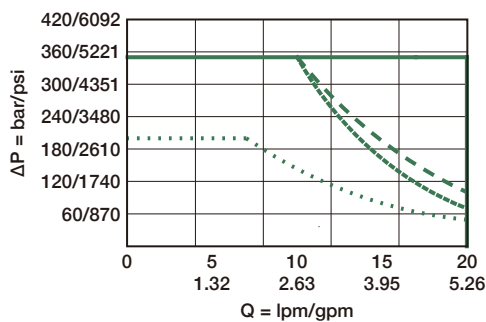
▶ 典型壓降 Typical Pressure Drop

- □3 → □2, □2 → □3
Port 3 → Port 2, Port 2 → Port 3
- □1 → □2, □2 → □1
Port 1 → Port 2, Port 2 → Port 1



▶ 性能範圍 Performance Range

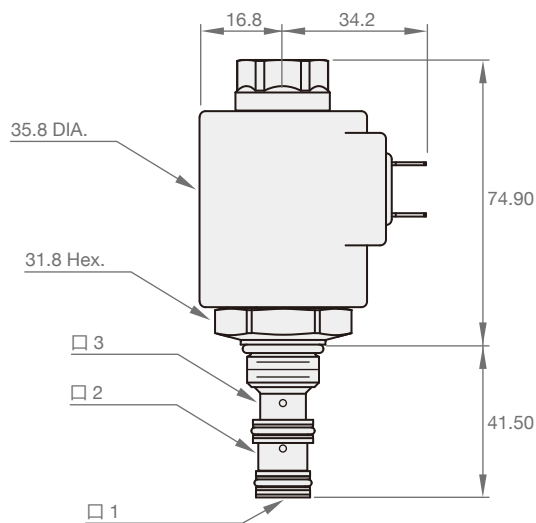
- □2 → □1
Port 2 → Port 1
- □3 → □2
Port 3 → Port 2
- - - □1 → □2
Port 1 → Port 2
- □2 → □3
Port 2 → Port 3



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

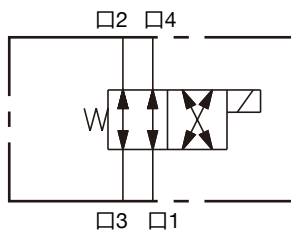
(單位 unit : mm)



SV08-40



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-4
流量 Capacity (l/min)	11
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.248

採購選型 ORDER CODE

SV **08** - **40** - **A1** - **DR** - **N**

1 2 3 4 5

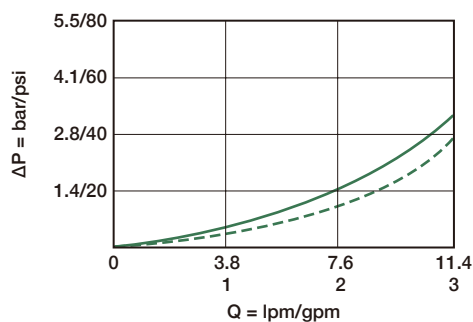
1	閥規格大小 Valve Size	08	
2	型號 Model Name	SV-40	
3	電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
		A2	交流電 230 VAC
		D1	直流電 12 VDC
		D2	直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
		DL	連接線型 wiring type
		DR	德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

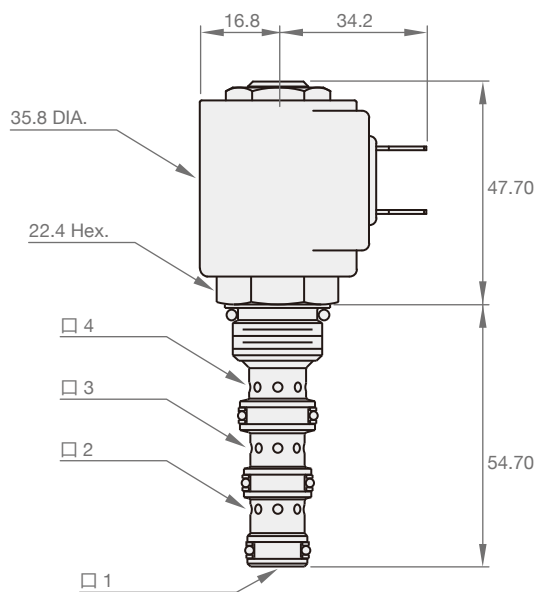
- 不激磁，□4 → □1
de-energized, Port 4 → Port 1
- □3 → □2
Port 3 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

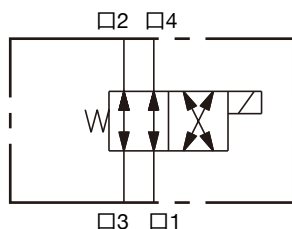
(單位 unit : mm)



SV10-40



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-4
流量 Capacity (l/min)	22
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.33

採購選型 ORDER CODE

SV **10** - **40** - **D1** - **DL** - **N**

1 2 3 4 5

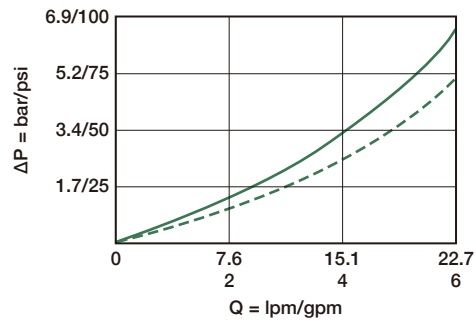
1	閥規格大小 Valve Size	10
2	型號 Model Name	SV-40
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

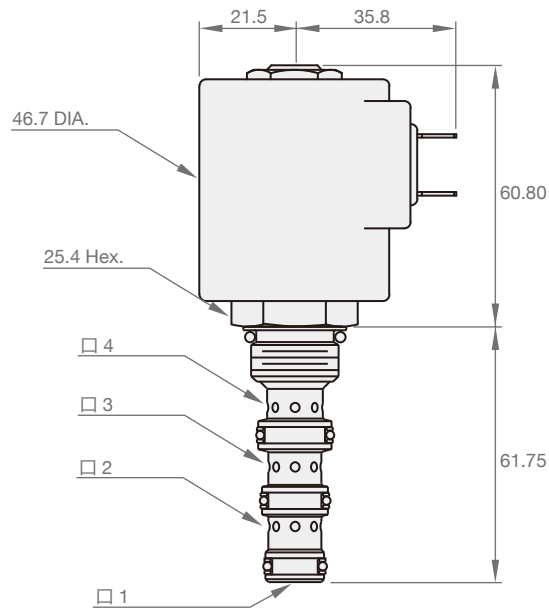
- 不激磁, □4 → □1
de-energized, Port 4 → Port 1
- □3 → □2
Port 3 → Port 2

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

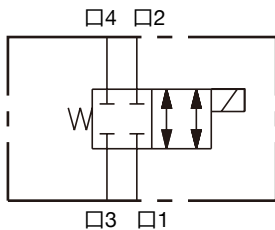
(單位 unit : mm)



SV08-41



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-4
流量 Capacity (l/min)	11
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.248

採購選型 ORDER CODE

SV **08** - **41** - **A2** - **DG** - **N**

1 2 3 4 5

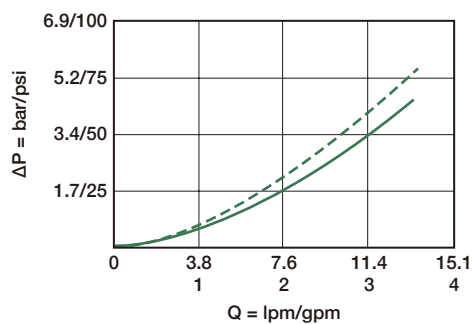
1	閥規格大小 Valve Size	08
2	型號 Model Name	SV-41
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

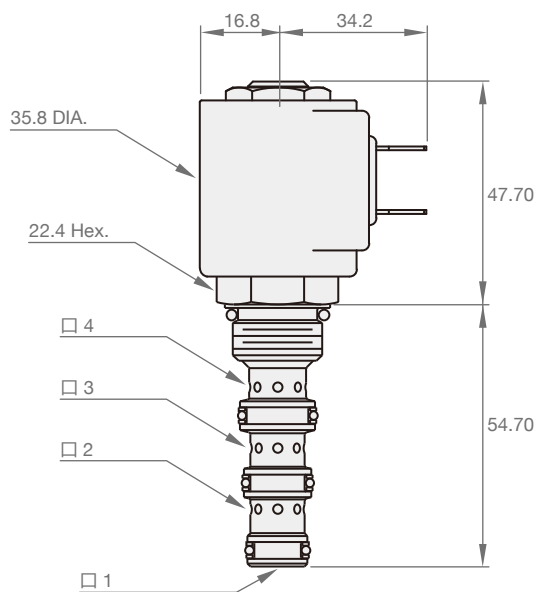
- □2 → □1
Port 2 → Port 1
- □3 → □4
Port 3 → Port 4

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

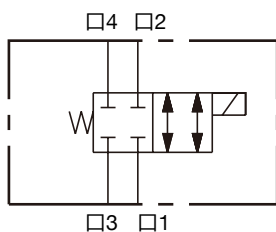
(單位 unit : mm)



SV10-41



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-4
流量 Capacity (l/min)	22
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.33

採購選型 ORDER CODE

SV **10** - **41** - **D2** - **DR** - **N**

1 2 3 4 5

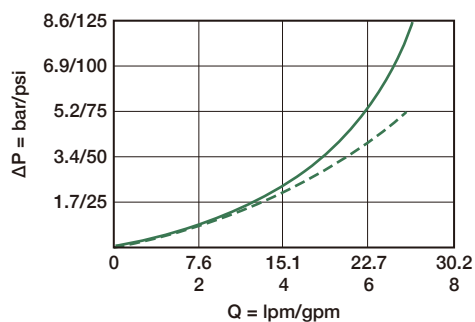
1	閥規格大小 Valve Size	10
2	型號 Model Name	SV-41
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

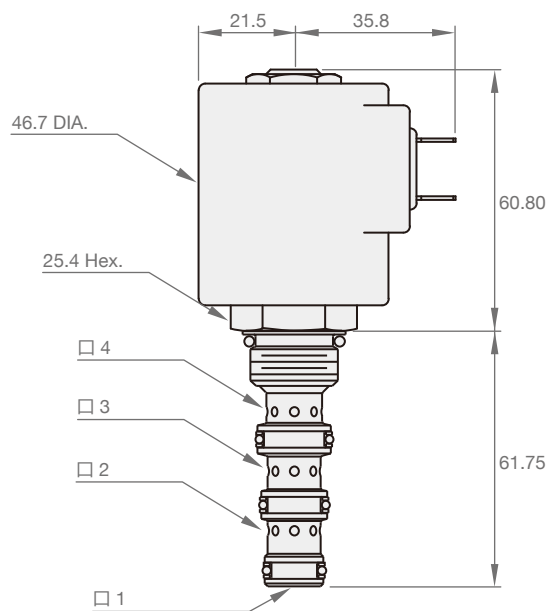
- - - □2 → □1
 Port 2 → Port 1
 ——— □3 → □4
 Port 3 → Port 4

* 黏度 32 cSt / 150 ssu 在攝氏40°C
 32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

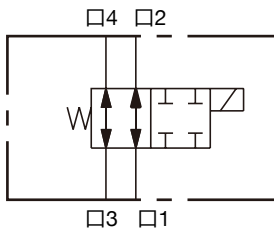
(單位 unit : mm)



SV08-42



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-4
流量 Capacity (l/min)	11
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.248

採購選型 ORDER CODE

SV **08** - **42** - **D1** - **DG** - **N**

1
2
3
4
5

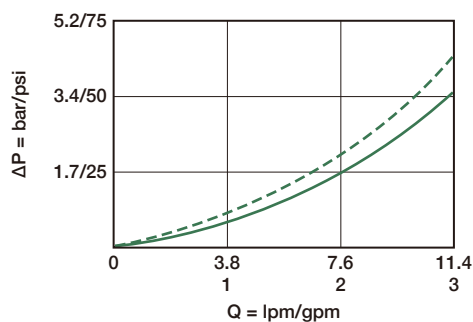
1 ▶ 閥規格大小 Valve Size	08	
2 ▶ 型號 Model Name	SV-42	
3 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
5 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

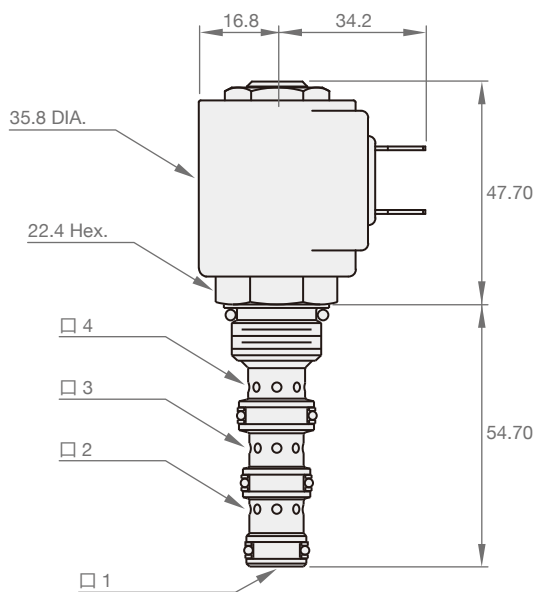
- □2 → □1
Port 2 → Port 1
- □3 → □4
Port 3 → Port 4

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

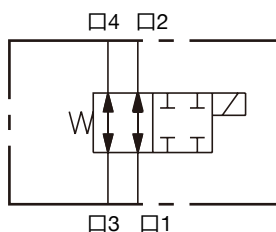
(單位 unit : mm)



SV10-42



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-4
流量 Capacity (l/min)	22
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	0.33

採購選型 ORDER CODE

SV **10** - **42** - **A2** - **DR** - **N**

1 2 3 4 5

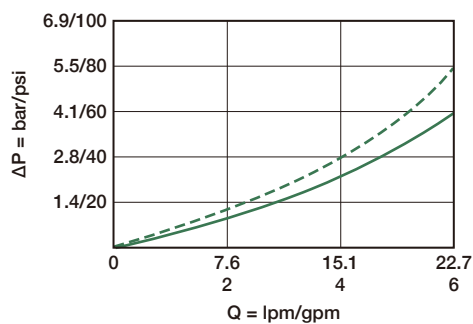
1 ▶ 閥規格大小 Valve Size	10	
2 ▶ 型號 Model Name	SV-42	
3 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
5 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

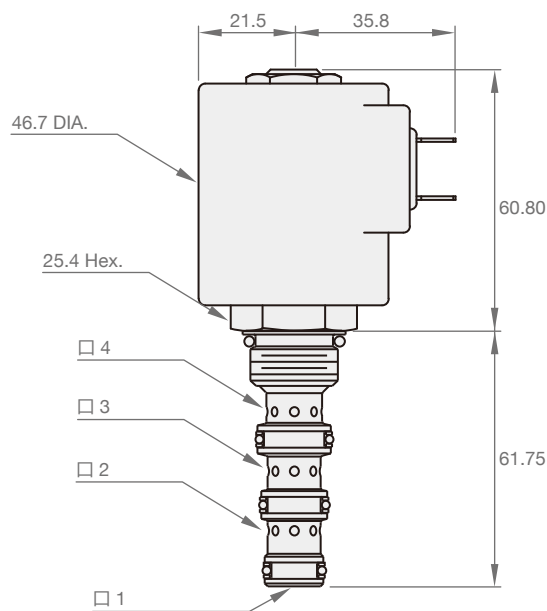
- □2 → □1
Port 2 → Port 1
- □3 → □4
Port 3 → Port 4

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

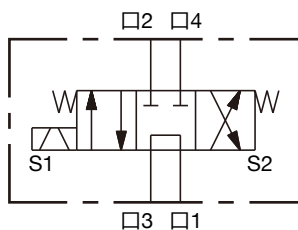
(單位 unit : mm)



SV08-47A



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-4
流量 Capacity (l/min)	11
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.1
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV-47A : 0.43, SV-47AM : 0.45

採購選型 ORDER CODE

SV **08** - **47A** **M** - **A1** - **DG** - **N**

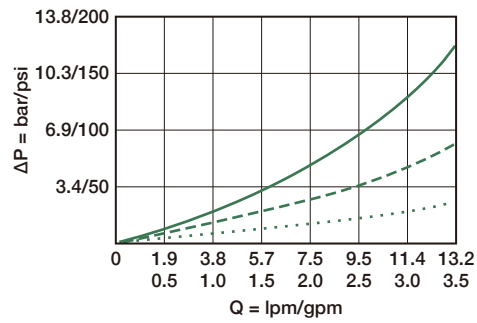
1 2 3 4 5 6

1 ▶ 閥規格大小 Valve Size	08	
2 ▶ 型號 Model Name	SV-47A	
3 ▶ 控制方式 Control Manner	空白 none	無手動操控 without manual override
	M	手動操控 manual override
4 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
5 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
6 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

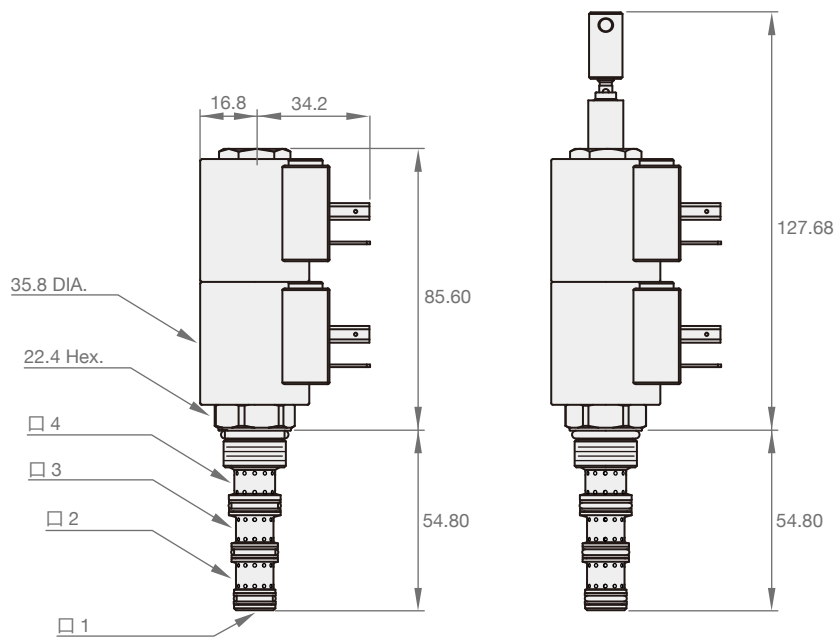
- □3 → □2 或 4
Port 3 → Port 2 or 4
- - - □2 或 4 → □1
Port 2 or 4 → Port 1
- ... □3 → □1
Port 3 → Port 1



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

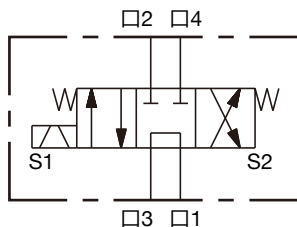
(單位 unit : mm)



SV10-47A



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-4
流量 Capacity (l/min)	14
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	1.45

採購選型 ORDER CODE

SV **10** - **47A** - **A2** - **DL** - **N**

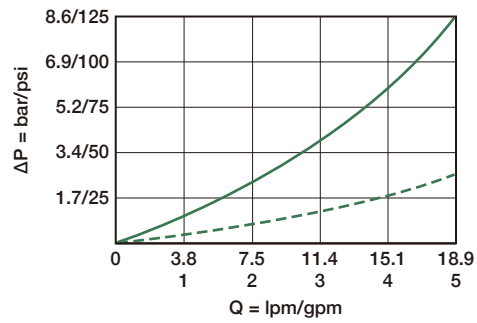
1
2
3
4
5

1 ▶ 閥規格大小 Valve Size	10	
2 ▶ 型號 Model Name	SV-47A	
3 ▶ 電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
	A2	交流電 230 VAC
	D1	直流電 12 VDC
	D2	直流電 24 VDC
4 ▶ 接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
	DL	連接線型 wiring type
	DR	德馳 DT04-2P Deutsch DT04-2P
5 ▶ 油封材質 Material of Seal	N	丁腈橡膠 buna-N
	V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

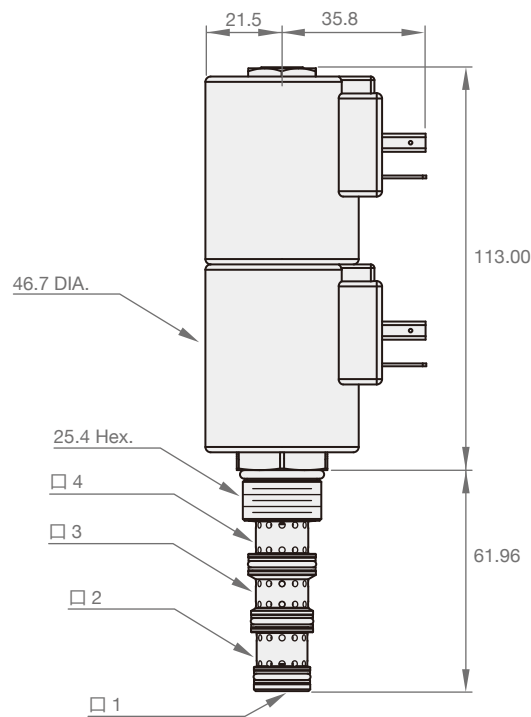
- 迴圈 loop
□ 3 → □ 2, □ 4 → □ 1
loop
Port 3 → Port 2,
Port 4 → Port 1
- - - 中立 neutral
□ 3 → □ 1
neutral
Port 3 → Port 1



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

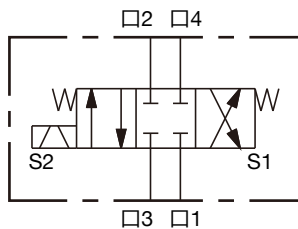
(單位 unit : mm)



SV08-47C



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-4
流量 Capacity (l/min)	11
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.2
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV-47C : 0.43, SV-47CM : 0.45

採購選型 ORDER CODE

SV **08** - **47C** **M** - **D1** - **DR** - **N**

1 2 3 4 5 6

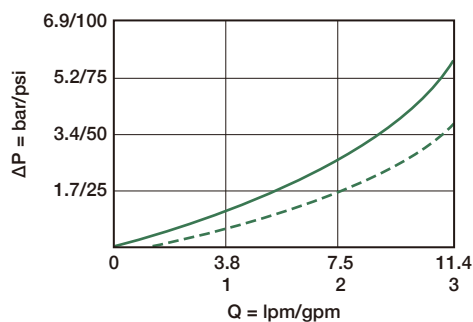
1 ▶	閥規格大小 Valve Size	08	
2 ▶	型號 Model Name	SV-47C	
3 ▶	控制方式 Control Manner	空白 none	無手動操控 without manual override
		M	手動操控 manual override
4 ▶	電壓 (線圈) Voltage (coil)	A1	交流電 115 VAC
		A2	交流電 230 VAC
		D1	直流電 12 VDC
		D2	直流電 24 VDC
5 ▶	接線盒 (線圈) Connector (coil)	DG	DIN 接線盒型 DIN connector type
		DL	連接線型 wiring type
		DR	德馳 DT04-2P Deutsch DT04-2P
6 ▶	油封材質 Material of Seal	N	丁腈橡膠 buna-N
		V	氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

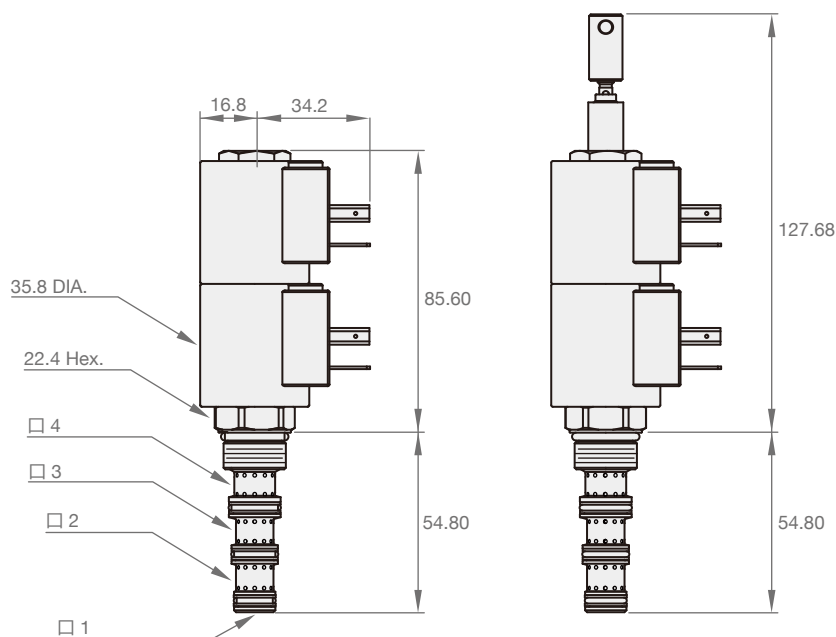
- □3 → □2 或 4
Port 3 → Port 2 or 4
- - - □2 or 4 → □1
Port 2 or 4 → Port 1

* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C



尺寸 DIMENSION

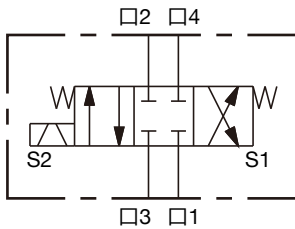
(單位 unit : mm)



SV10-47C



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-4
流量 Capacity (l/min)	22
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	1.45

採購選型 ORDER CODE

SV **10** - **47C** - **D2** - **DG** - **N**

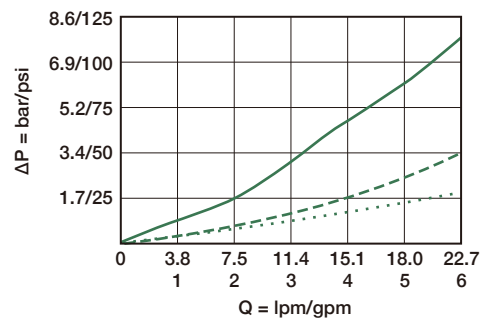
1 2 3 4 5

1	閥規格大小 Valve Size	10
2	型號 Model Name	SV-47C
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

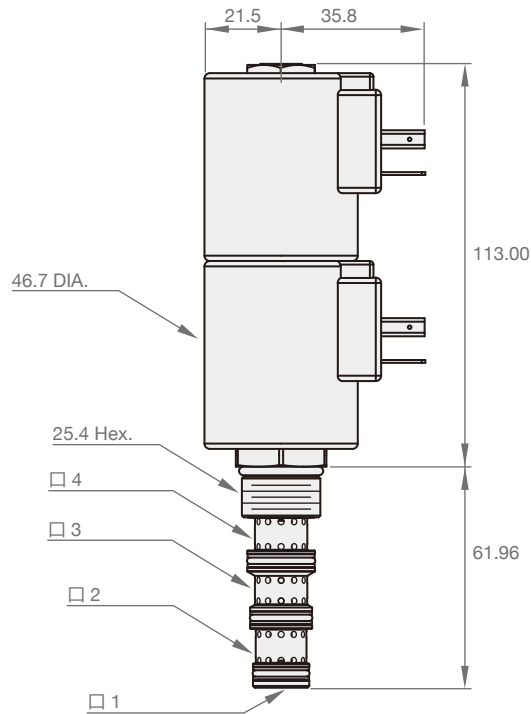
- □3 → □2 或 4
Port 3 → Port 2 or 4
- - - □4 → □1
Port 4 → Port 1
- □2 → □1
Port 2 → Port 1



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

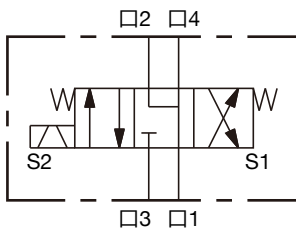
(單位 unit : mm)



SV08-47D



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-08-4
流量 Capacity (l/min)	11
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	27.2
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	SV-47D : 0.43, SV-47DM : 0.45

採購選型 ORDER CODE

SV **08** - **47D** **M** - **A1** - **DL** - **N**

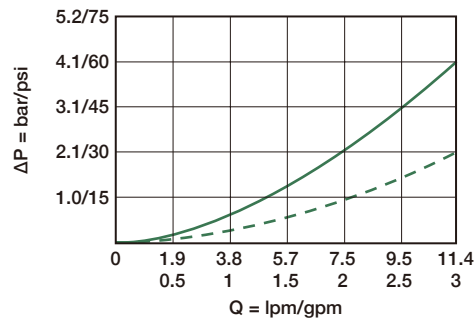
1 2 3 4 5 6

1	閥規格大小 Valve Size	08
2	型號 Model Name	SV-47D
3	控制方式 Control Manner	空白 none 無手動操控 without manual override
		M 手動操控 manual override
4	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
5	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
6	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

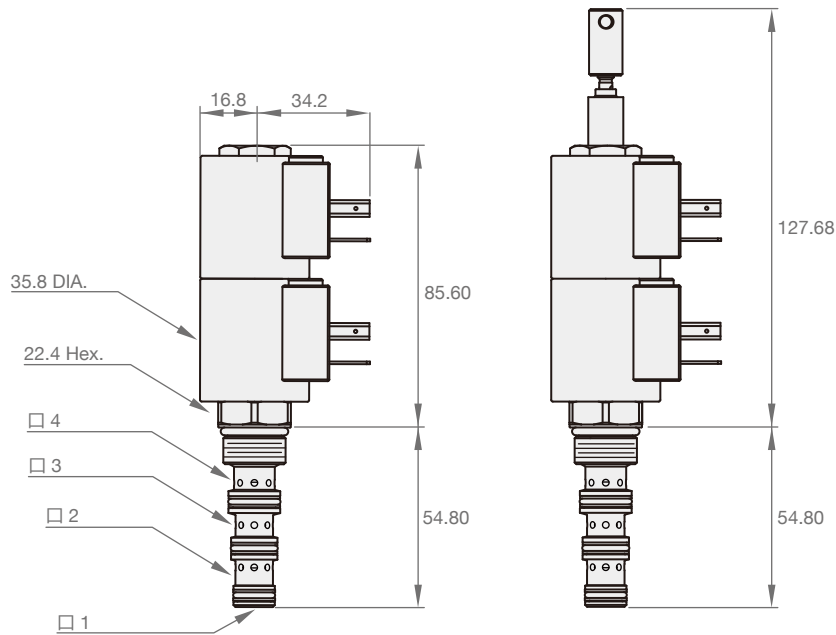
- □3 → □2
- □3 → □4
- □4 → □1
- Port 3 → Port 2
- Port 3 → Port 4
- Port 4 → Port 1
- - - □2 或 4 → □1
- - - Port 2 或 4 → Port 1



* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

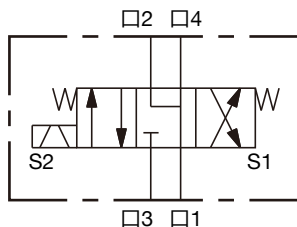
(單位 unit : mm)



SV10-47D



符號 SYMBOL



規格表 MODEL SPEC.

安裝閥孔 Cavity	SAE-10-4
流量 Capacity (l/min)	22
最大壓力 Max. Pressure (bar)	255
安裝扭力 Installation Torque (Nm)	33.9
操作溫度 Operating Temperature	-35 ~ 100°C (-31 ~ 212°F)
重量 Weight (kg)	1.45

採購選型 ORDER CODE

SV **10** - **47D** - **A2** - **DG** - **N**

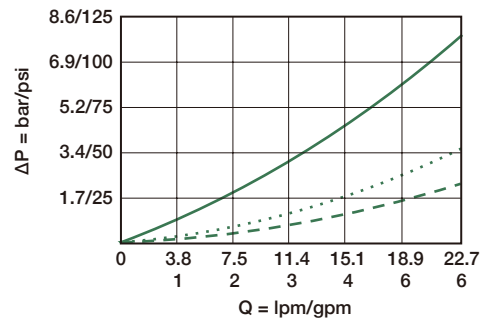
1 2 3 4 5

1	閥規格大小 Valve Size	10
2	型號 Model Name	SV-47D
3	電壓 (線圈) Voltage (coil)	A1 交流電 115 VAC
		A2 交流電 230 VAC
		D1 直流電 12 VDC
		D2 直流電 24 VDC
4	接線盒 (線圈) Connector (coil)	DG DIN 接線盒型 DIN connector type
		DL 連接線型 wiring type
		DR 德馳 DT04-2P Deutsch DT04-2P
5	油封材質 Material of Seal	N 丁腈橡膠 buna-N
		V 氟橡膠 viton

曲線 PERFORMANCE CURVES

► 典型壓降 Typical Pressure Drop

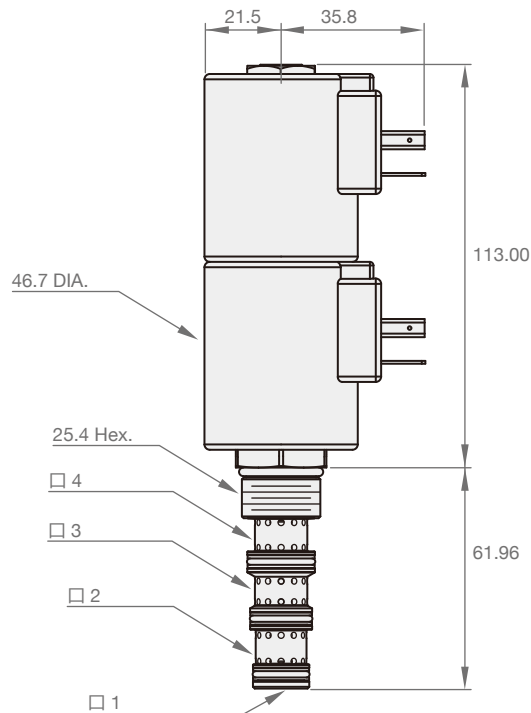
- □3 → □2 或 4
Port 3 → Port 2 or 4
- □4 → □1
Port 4 → Port 1
- - - □2 → □1
Port 2 → Port 1

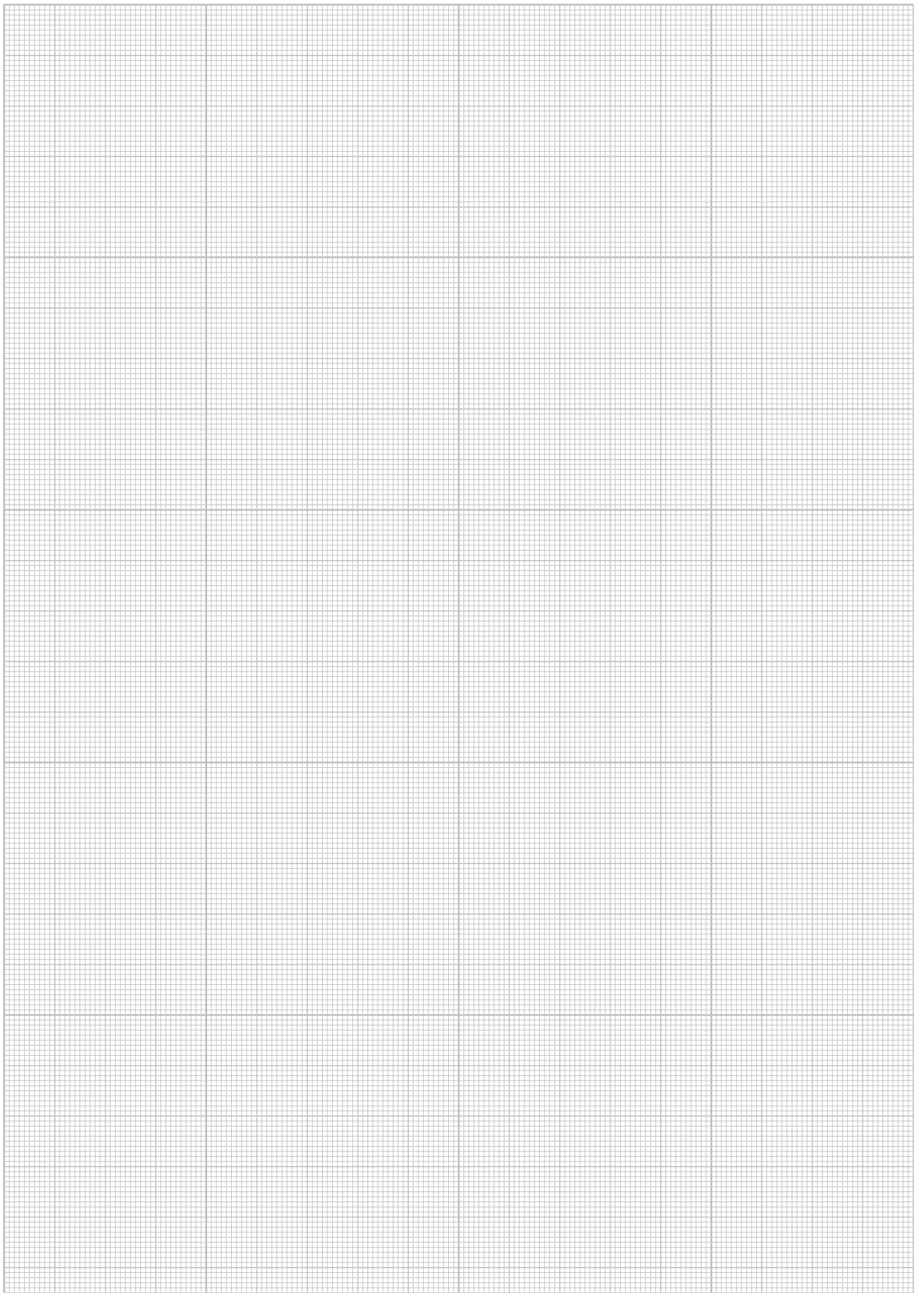


* 黏度 32 cSt / 150 ssu 在攝氏40°C
32cSt / 150 ssu oil at 40°C

尺寸 DIMENSION

(單位 unit : mm)





電磁線圈 Solenoid Coil



採購資訊 Order Information

採購選型 ORDER CODES

C **SV08** - **D2** - **DR**

1 2 3

1	閥規格大小 Valve Size	SV08, SV10, PV7	
2	電壓 Voltage	A1	交流電 115 VAC
		A2	交流電 230 VAC
		D1	直流電 12 VDC
		D2	直流電 24 VDC
3	接線盒 Connector	AG	AC, DIN 接線盒型 AC, DIN connector type
		AL	AC, 連接線型 AC, wiring type
		DG	DC, DIN 接線盒型 DC, DIN connector type
		DL	DC, 連接線型 DC, wiring type
		DR	德馳 DT04-2P Deutsch DT04-2P

採購選型 Order Code	部件編號 Part No.	電壓 Voltage	接線盒 Connector
CSV08-A1-AG	S6316115	交流電 115 VAC	DIN 43650
CSV08-A2-AG	S6316230	交流電 230 VAC	DIN 43650
CSV08-D1-DG	S6306012	直流電 12 VDC	DIN 43650
CSV08-D2-DG	S6306024	直流電 24 VDC	DIN 43650
CSV08-D1-DR	S4301512	直流電 12 VDC	德馳 DT04-2P Deutsch DT04-2P
CSV08-D2-DR	S4301524	直流電 24 VDC	德馳 DT04-2P Deutsch DT04-2P

採購選型 Order Code	部件編號 Part No.	電壓 Voltage	接線盒 Connector
CSV10-A1-AG	S6366115	交流電 115 VAC	DIN 43650
CSV10-A2-AG	S6366230	交流電 230 VAC	DIN 43650
CSV10-D1-DG	S6356012	直流電 12 VDC	DIN 43650
CSV10-D2-DG	S6356024	直流電 24 VDC	DIN 43650
CSV10-D1-DR	S4301612	直流電 12 VDC	德馳 DT04-2P Deutsch DT04-2P
CSV10-D2-DR	S4301624	直流電 24 VDC	德馳 DT04-2P Deutsch DT04-2P

CSV08

採購選型 ORDER CODE

CSV **08** - **D1** - **DR**

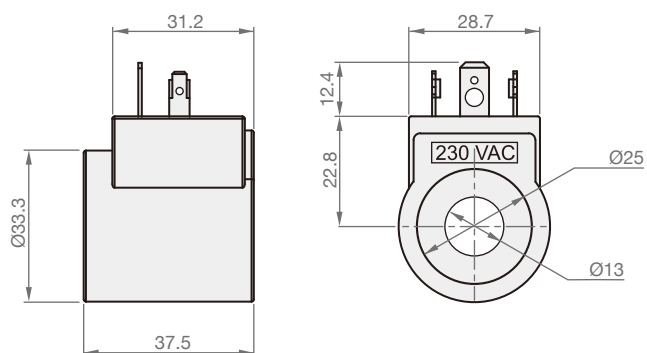
1 2 3

1	閥規格大小 Valve Size	08	對應電磁控制插裝閥：08 for solenoid cartridge valve：08
2	電壓 Voltage	A1	交流電 115 VAC
		A2	交流電 230 VAC
		D1	直流電 12 VDC
		D2	直流電 24 VDC
3	接線盒 Connector	AG	AC, DIN 接線盒型 AC, DIN connector type
		AL	AC, 連接線型 AC, wiring type
		DG	DC, DIN 接線盒型 DC, DIN connector type
		DL	DC, 連接線型 DC, wiring type
		DR	德馳 DT04-2P Deutsch DT04-2P

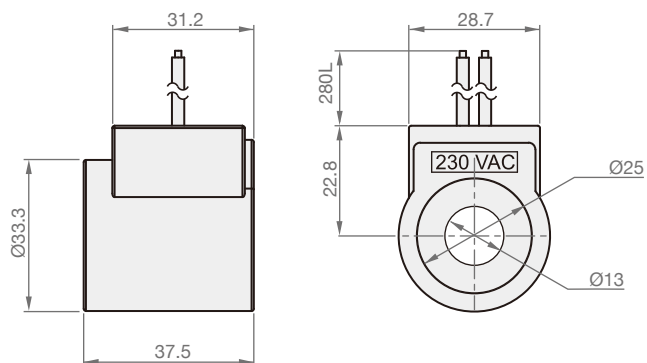
規格表 MODEL SPEC.

電壓 Voltage	阻抗 在 20°C 下 Resistance at 20°C (Ω)	功率 Power (W)	電流 Current (A)	絕緣等級 Insulation Class	重量 Weight (kg)
交流電 115 VAC	765	14.7	0.13	F	0.115
交流電 230 VAC	3100		0.06		
直流電 12 VDC	9.8		1.22	H	
直流電 24 VDC	39.3		0.61		

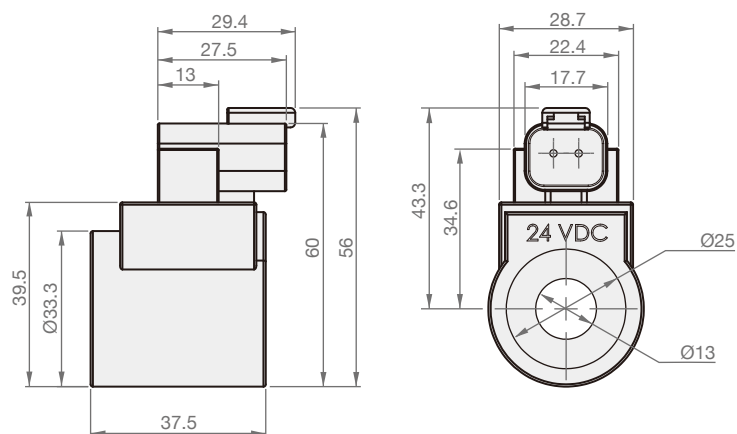
► CSV08-AG, DG



► CSV08-AL, DL



► CSV08-DR



CSV10

採購選型 ORDER CODE

CSV **10** - **D2** - **DG**

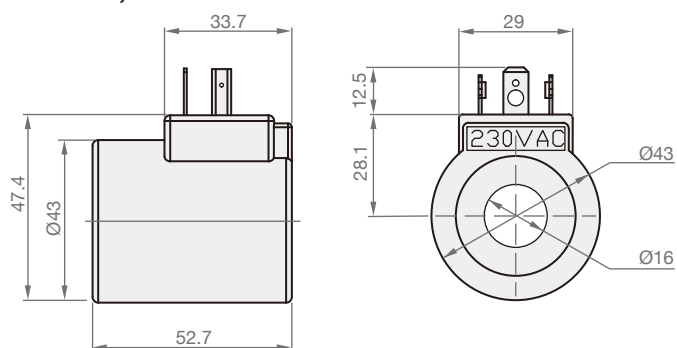
1 2 3

1 ▶	閥規格大小 Valve Size	10	對應電磁控制插裝閥：10, 12, 16, 38 for solenoid cartridge valve：10, 12, 16, 38
2 ▶	電壓 Voltage	A1	交流電 115 VAC
		A2	交流電 230 VAC
		D1	直流電 12 VDC
		D2	直流電 24 VDC
3 ▶	接線盒 Connector	AG	AC, DIN 接線盒型 AC, DIN connector type
		AL	AC, 連接線型 AC, wiring type
		DG	DC, DIN 接線盒型 DC, DIN connector type
		DL	DC, 連接線型 DC, wiring type
		DR	德馳 DT04-2P Deutsch DT04-2P

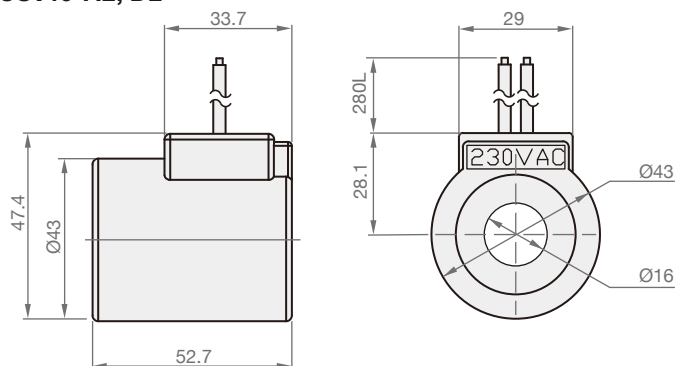
規格表 MODEL SPEC.

電壓 Voltage	阻抗 在 20°C 下 Resistance at 20°C (Ω)	功率 Power (W)	電流 Current (A)	絕緣等級 Insulation Class	重量 Weight (kg)
交流電 115 VAC	568	20	0.17	F	0.275
交流電 230 VAC	2310		0.09		
直流電 12 VDC	7.2		1.67	H	
直流電 24 VDC	28.8		0.83		

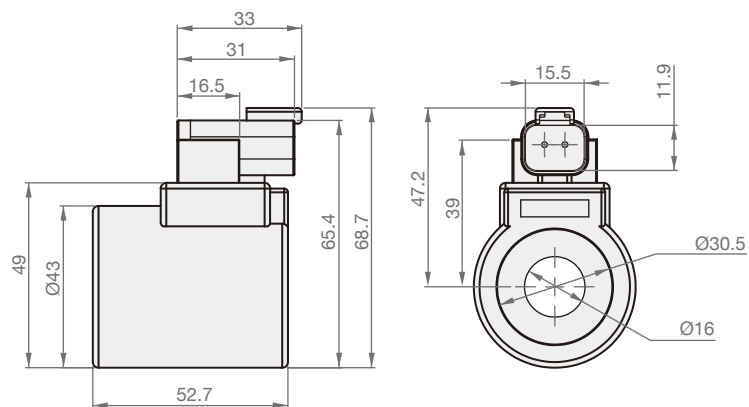
► CSV10-AG, DG



► CSV10-AL, DL



► CSV10-DR



CPV7



採購選型 ORDER CODE

C **PV7** - **D1** - **DG**

1 2 3

1	閥規格大小 Valve Size	PV7	對應比例插裝閥：70, 72, 76 for proportional cartridge valve：70, 72, 76
2	電壓 Voltage	D1	直流電 12 VDC
		D2	直流電 24 VDC
3	接線盒 Connector	DG	DC, DIN 接線盒型 DC, DIN connector type

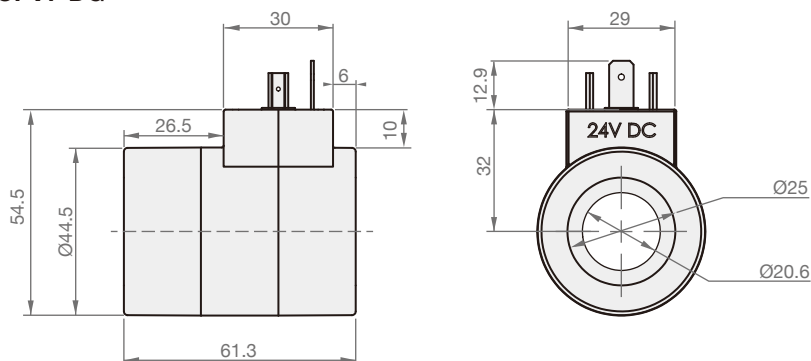
規格表 MODEL SPEC.

電壓 Voltage	阻抗 在 20°C 下 Resistance at 20°C (Ω)	功率 Power (W)	電流 Current (A)	絕緣等級 Insulation Class	重量 Weight (kg)
直流電 12 VDC	5	18	1.5	F	0.32
直流電 24 VDC	20		0.75		

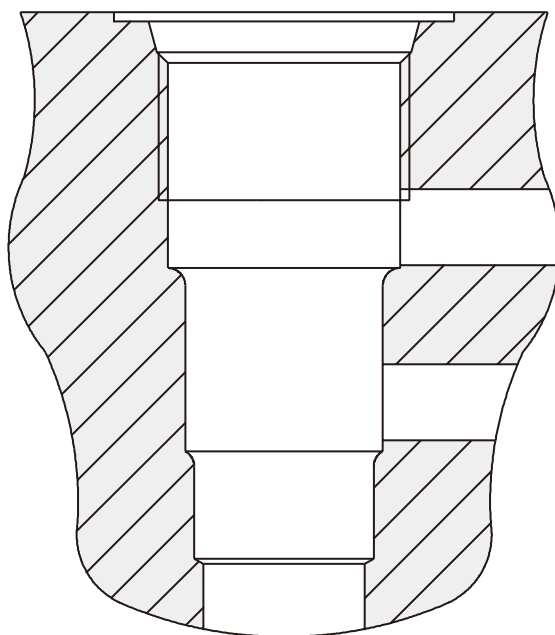
尺寸 DIMENSION

(單位 unit : mm)

► CPV7-DG



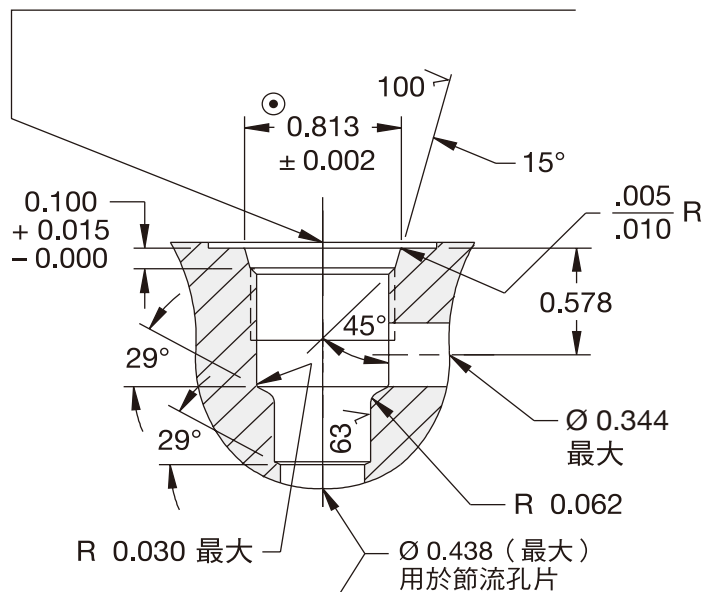
閥塊 (插孔) Cavities Tooling



SAE-08-2

(單位 Unit : inch)

1.188 (孔口平面直徑) x .031 (深度) #
 ◎ 0.502/0.500 (直徑) x 1.156 (深度) *
 ◎ 0.690/0.686 (直徑) x 0.750 (深度) *
 ◎ 3/4-16UNF-2B x 0.500 (深度) *



注：閥孔變量“A” **

0.438 (所需的最小先導鑽孔直徑)
到 1.81 (距孔口平面的最小深度)

可以同時使用一種成型刀具加工上述閥孔（除先導鑽孔和交叉鑽孔外）。

◎ — 這些直徑的同軸度要小於 0.002 T.I.R.，並且孔口平面垂直度要小於 0.001 T.I.R。

* 一 深度由孔口平面確定。

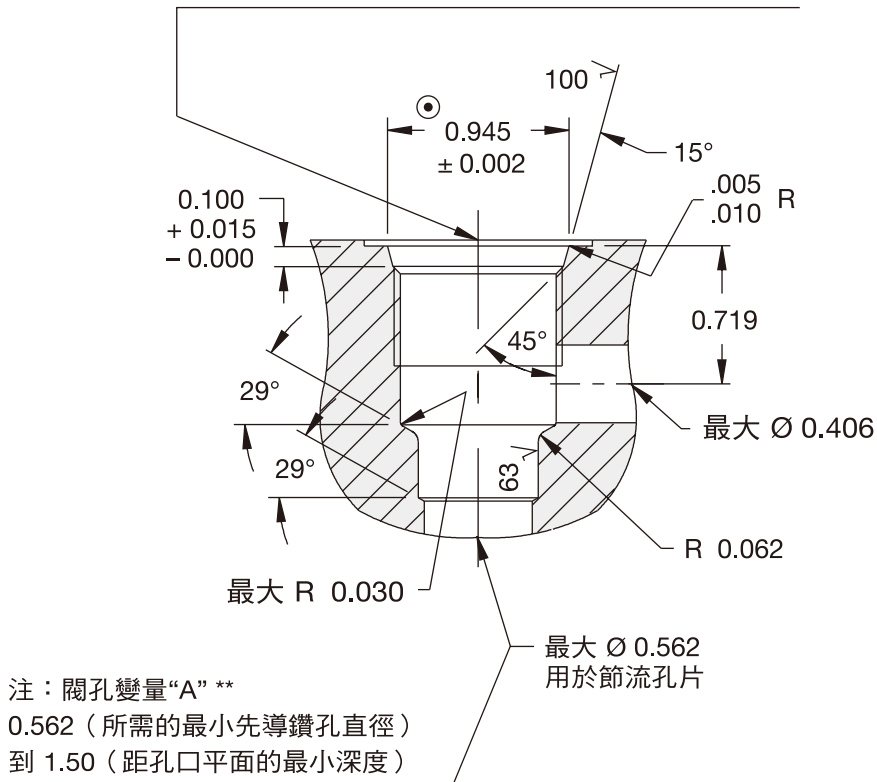
一 除非在加工圖紙上另行標示。未指明的公差為 ± 0.005 。

** 一 只有在特定產品目錄頁上註明時才要求閥孔變量“A”。

SAE-10-2

(單位 Unit : inch)

- 1.188 (孔口平面直徑) x .031 (深度) #
- ⊙ 0.627/0.625 (直徑) x 1.312 (深度) *
- ⊙ 0.814/0.810 (直徑) x 0.932 (深度) *
- ⊙ 7/8-14UNF-2B x 0.625 (深度) *



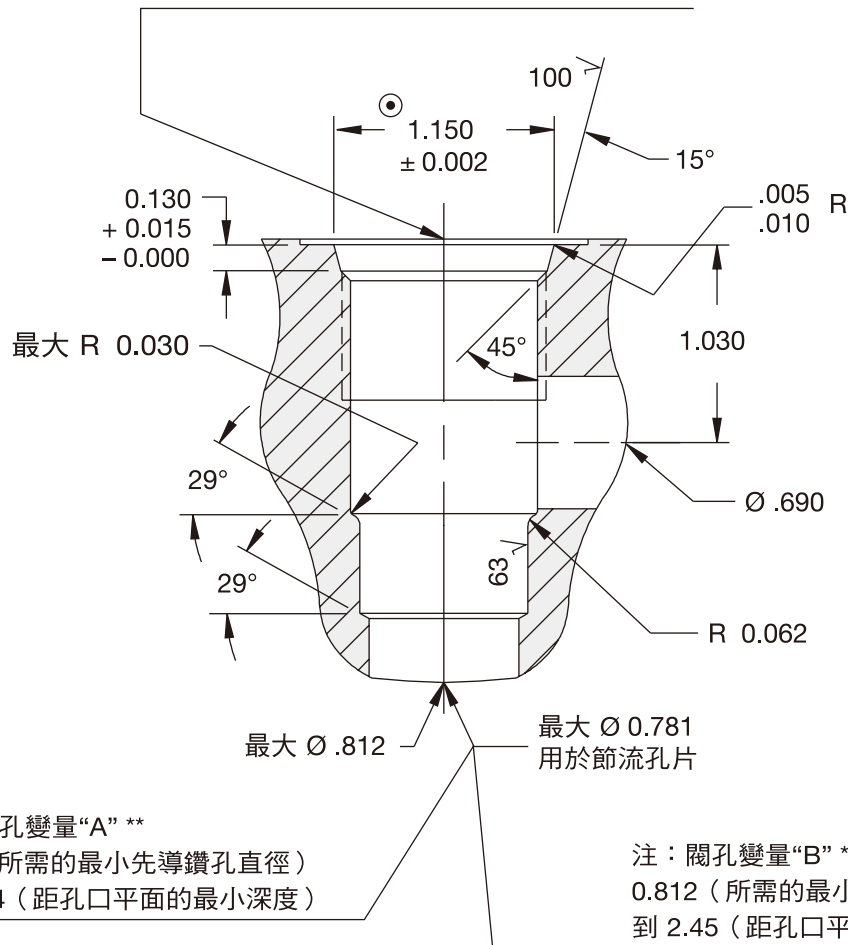
可以同時使用一種成型刀具加工上述閥孔（除先導鑽孔和交叉鑽孔外）。

- ⊙ — 這些直徑的同軸度要小於 0.002 T.I.R.，並且孔口平面垂直度要小於 0.001 T.I.R.。
- * — 深度由孔口平面確定。
- # — 除非在加工圖紙上另行標示。未指明的公差為 ±0.005。
- ** — 只有在特定產品目錄頁上註明時才要求閥孔變量“A”。

SAE-12-2

(單位 Unit : inch)

- 1.188 (孔口平面直徑) x .031 (深度) #
- ⊙ 0.877/0.875 (直徑) x 1.920 (深度) *
- ⊙ 0.978/0.975 (直徑) x 1.400 (深度) *
- ⊙ 1-1/16-12UN-2B x 0.810 (深度) *



可以同時使用一種成型刀具加工上述閥孔 (除先導鑽孔和交叉鑽孔外)。

⊙ — 這些直徑的同軸度要小於 0.002 T.I.R.，並且孔口平面垂直度要小於 0.001 T.I.R。

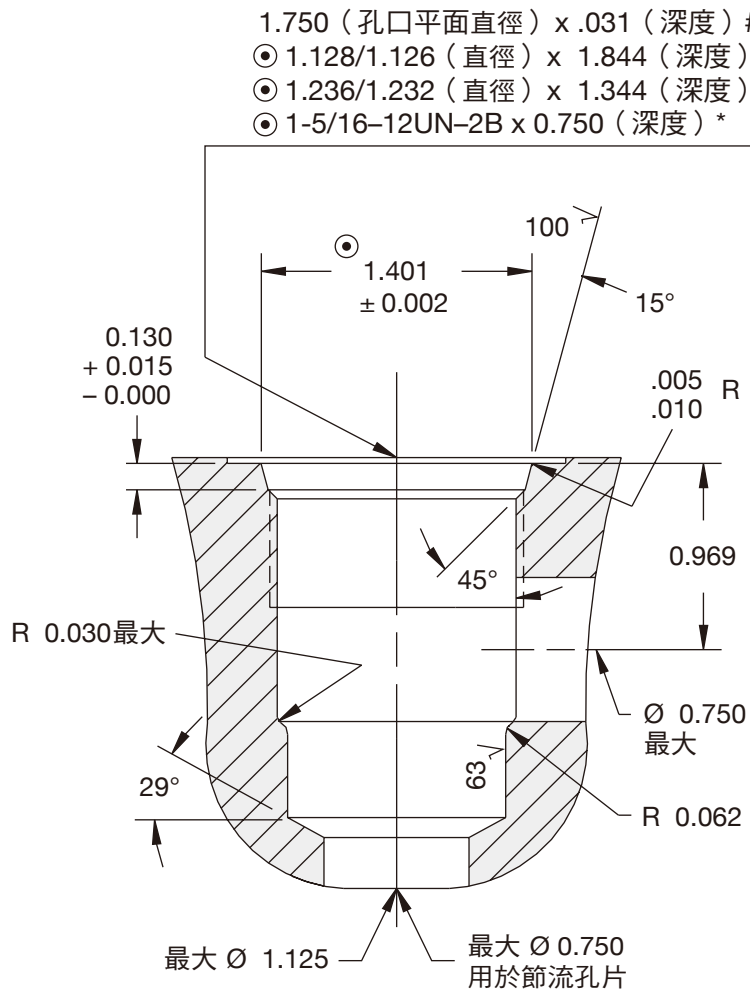
* — 深度由孔口平面確定。

— 除非在加工圖紙上另行標示。未指明的公差為 ±0.005。

** — 只有在特定產品目錄頁上註明時才要求閥孔變量 “A”。

SAE-16-2

(單位 Unit : inch)



可以同時使用一種成型刀具加工上述閥孔（除先導鑽孔和交叉鑽孔外）。

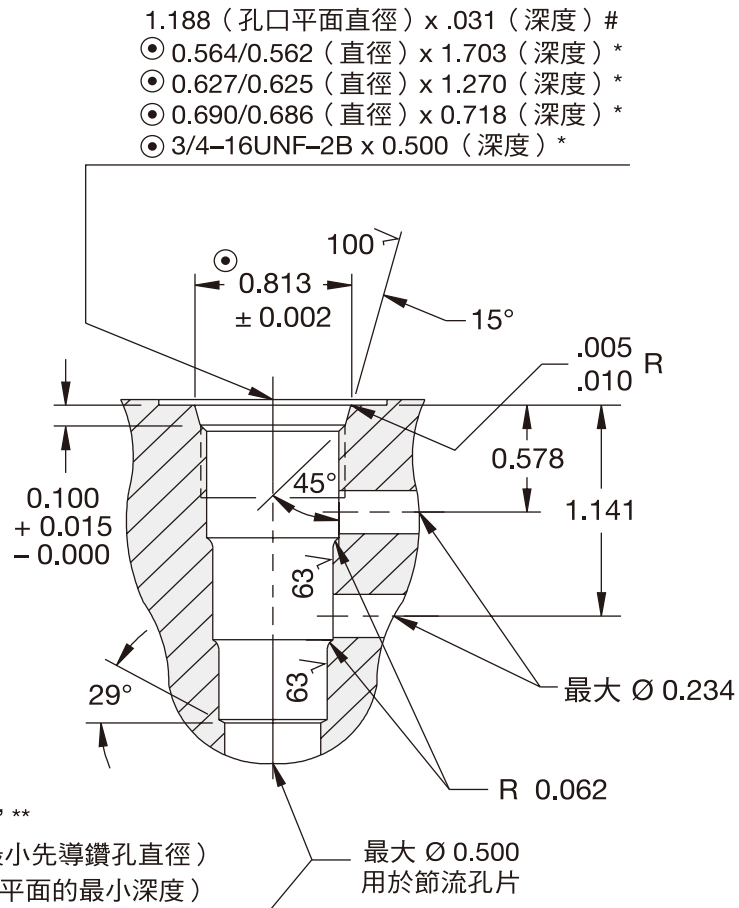
◎ — 這些直徑的同軸度要小於 0.002 T.I.R.，並且孔口平面垂直度要小於 0.001 T.I.R.。

* — 深度由孔口平面確定。

— 除非在加工圖紙上另行標示。未指明的公差為 ±0.005。

SAE-08-3

(單位 Unit : inch)



可以同時使用一種成型刀具加工上述閥孔 (除先導鑽孔和交叉鑽孔外)。

⊙ — 這些直徑的同軸度要小於 0.002 T.I.R.，並且孔口平面垂直度要小於 0.001 T.I.R。

* — 深度由孔口平面確定。

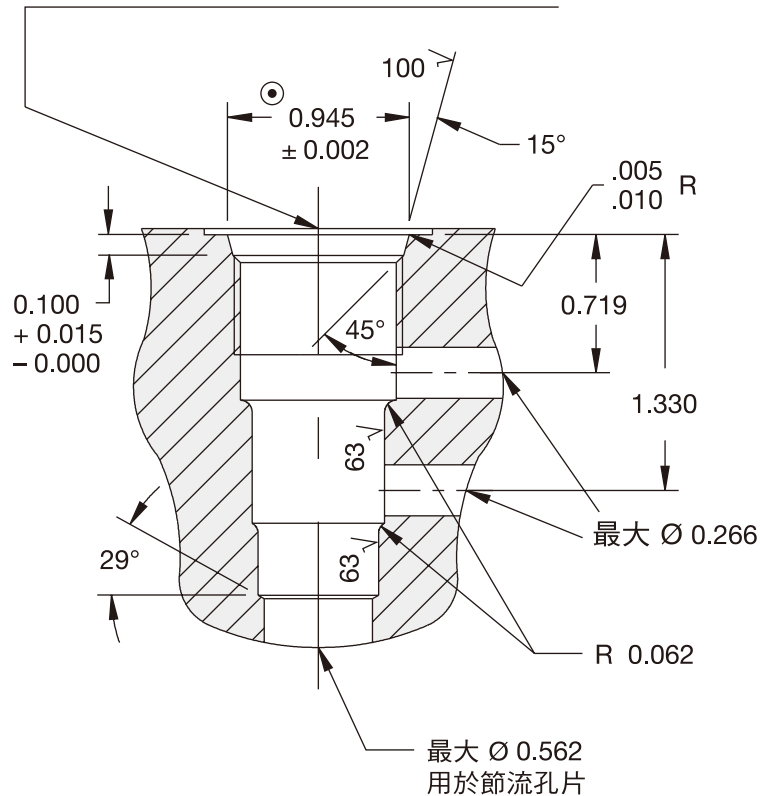
— 除非在加工圖紙上另行標示。未指明的公差為 ±0.005。

** — 只有在特定產品目錄頁上註明時才要求閥孔變量 “A”。

SAE-10-3

(單位 Unit : inch)

- 1.188 (孔口平面直徑) x .031 (深度) #
- ⊙ 0.627/0.625 (直徑) x 1.875 (深度) *
- ⊙ 0.690/0.688 (直徑) x 1.500 (深度) *
- ⊙ 0.814/0.810 (直徑) x 0.860 (深度) *
- ⊙ 7/8-14UNF-2B x 0.625 (深度) *



可以同時使用一種成型刀具加工上述閥孔（除先導鑽孔和交叉鑽孔外）。

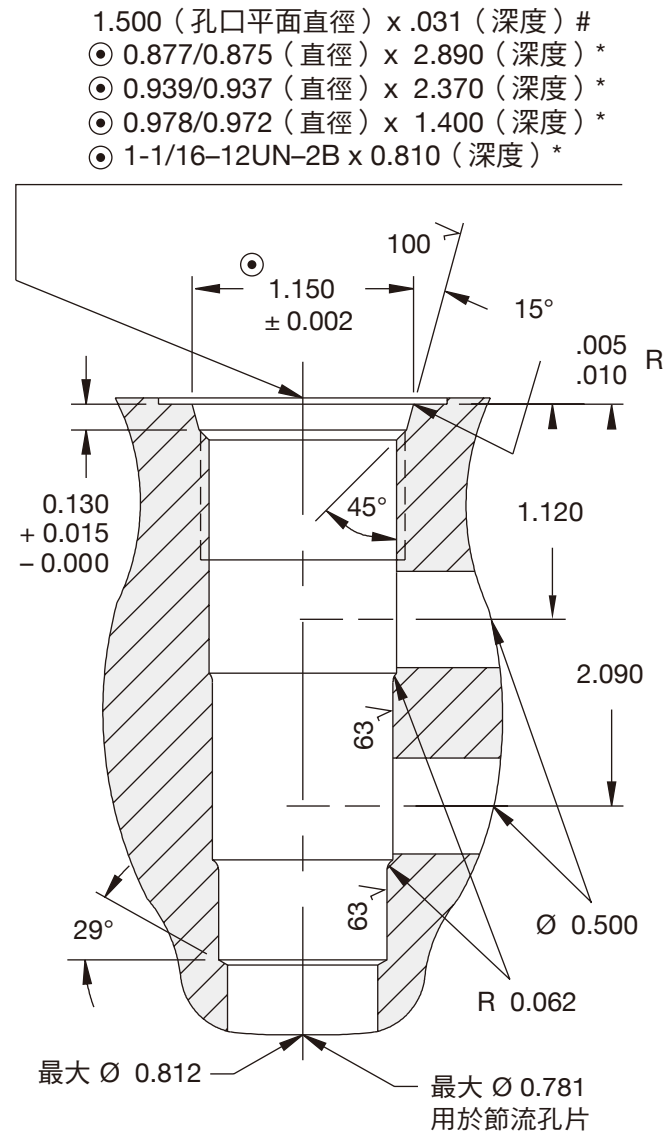
⊙ — 這些直徑的同軸度要小于 0.002 T.I.R.，並且孔口平面垂直度要小于 0.001 T.I.R.。

* — 深度由孔口平面確定。

— 除非在加工圖紙上另行標示。未指明的公差為 ±0.005。

SAE-12-3

(單位 Unit : inch)



可以同時使用一種成型刀具加工上述閥孔（除先導鑽孔和交叉鑽孔外）。

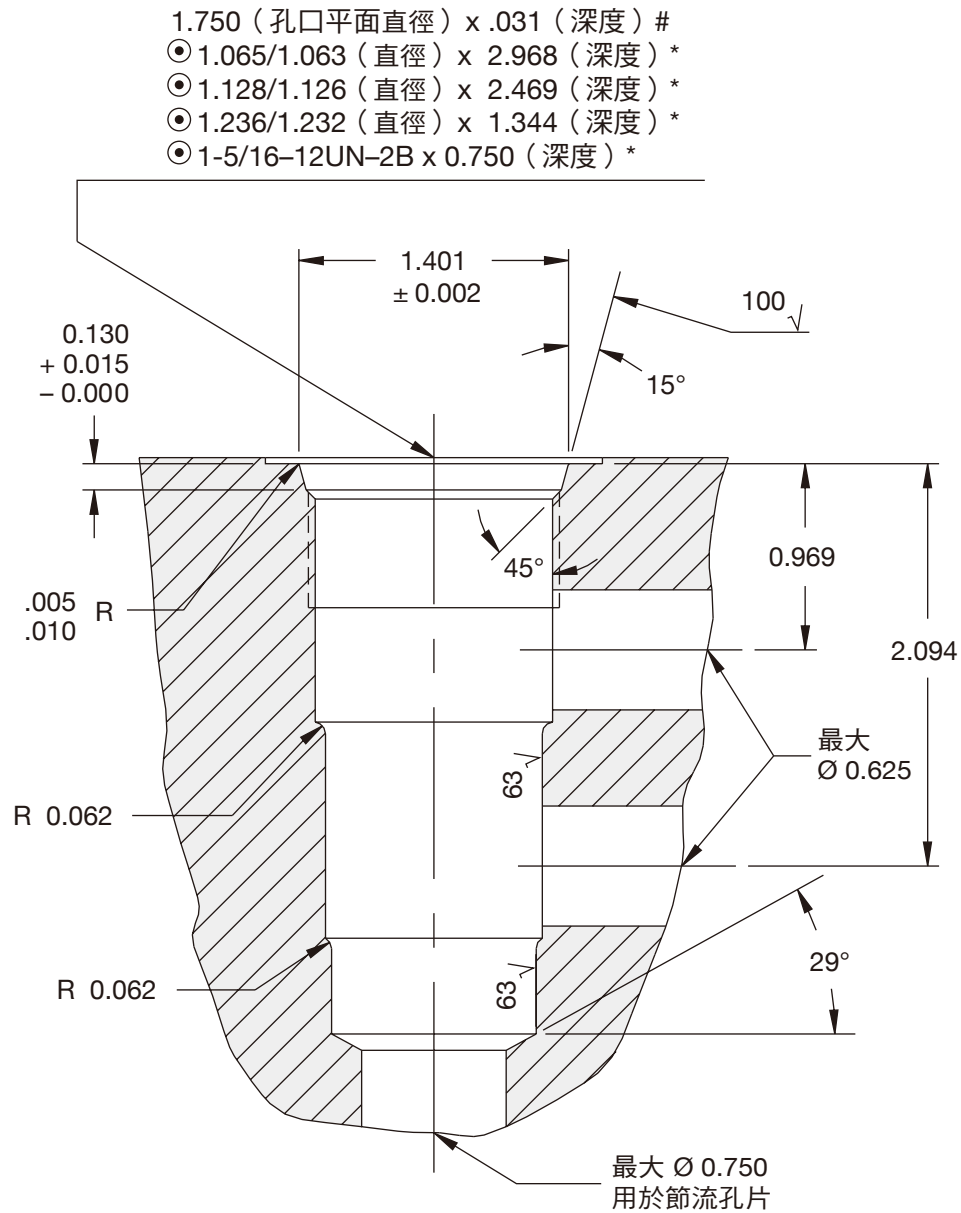
⊙ — 這些直徑的同軸度要小於 0.002 T.I.R.，並且孔口平面垂直度要小於 0.001 T.I.R.。

* — 深度由孔口平面確定。

— 除非在加工圖紙上另行標示。未指明的公差為 ±0.005。

SAE-16-3

(單位 Unit : inch)

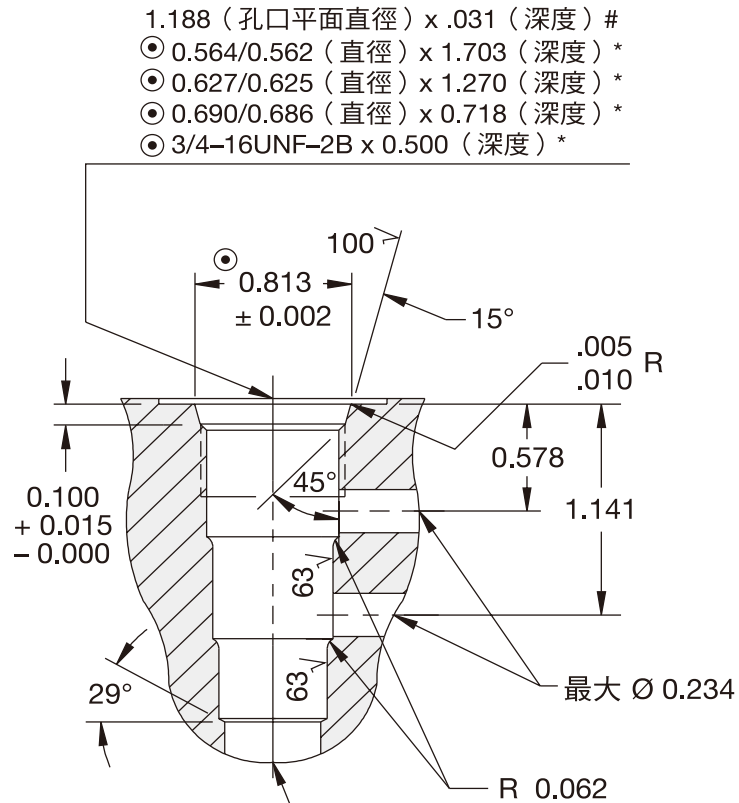


可以同時使用一種成型刀具加工上述閥孔 (除先導鑽孔和交叉鑽孔外)。

- ◎ — 這些直徑的同軸度要小於 0.002 T.I.R.，並且孔口平面垂直度要小於 0.001 T.I.R.。
- * — 深度由孔口平面確定。
- # — 除非在加工圖紙上另行標示。未指明的公差為 ±0.005。

SAE-08-4

(單位 Unit : inch)



注：閥孔變量“A” **

0.500 (所需的最小先導鑽孔直徑)
到 1.81 (距孔口平面的最小深度)

最大 Ø 0.500
用於節流孔片

可以同時使用一種成型刀具加工上述閥孔 (除先導鑽孔和交叉鑽孔外)。

⊙ — 這些直徑的同軸度要小於 0.002 T.I.R.，並且孔口平面垂直度要小於 0.001 T.I.R。

* — 深度由孔口平面確定。

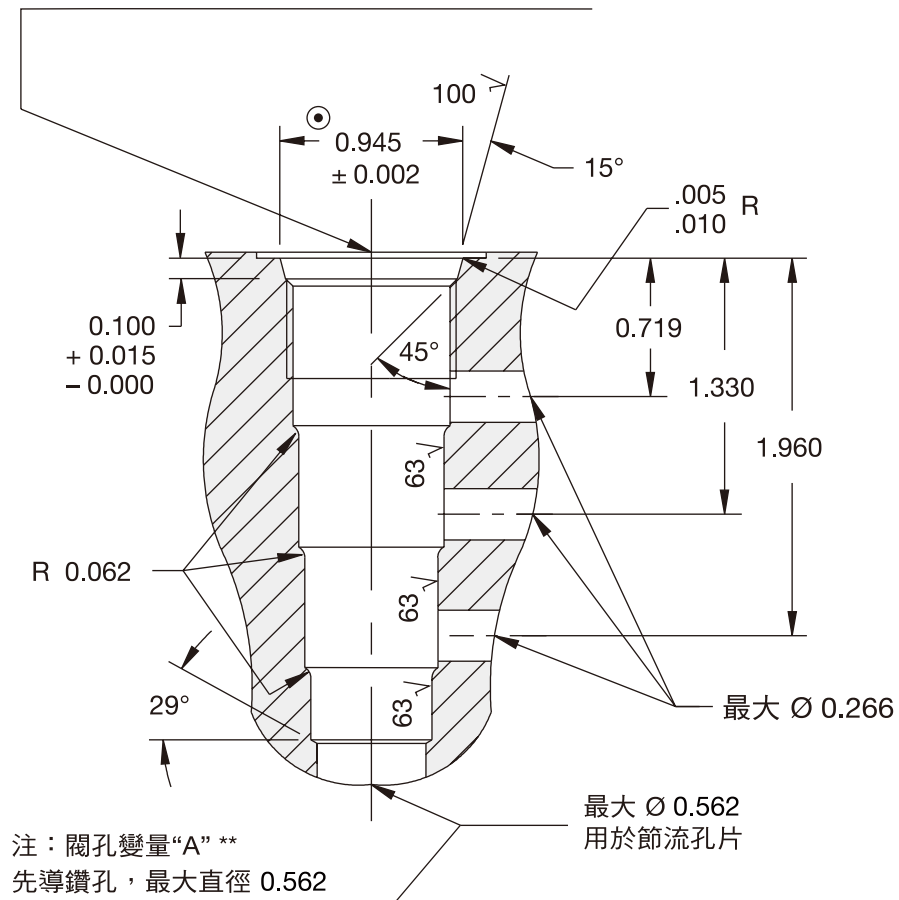
— 除非在加工圖紙上另行標示。未指明的公差為 ±0.005。

** — 只有在特定產品目錄頁上註明時才要求閥孔變量“A”。

SAE-10-4

(單位 Unit : inch)

- 1.188 (孔口平面直徑) x .031 (深度) #
- ⊙ 0.627/0.625 (直徑) x 2.500 (深度) *
- ⊙ 0.690/0.688 (直徑) x 2.125 (深度) *
- ⊙ 0.752/0.750 (直徑) x 1.500 (深度) *
- ⊙ 0.814/0.810 (直徑) x 0.870 (深度) *
- ⊙ 7/8-14UNF-2B x 0.625 (深度) *



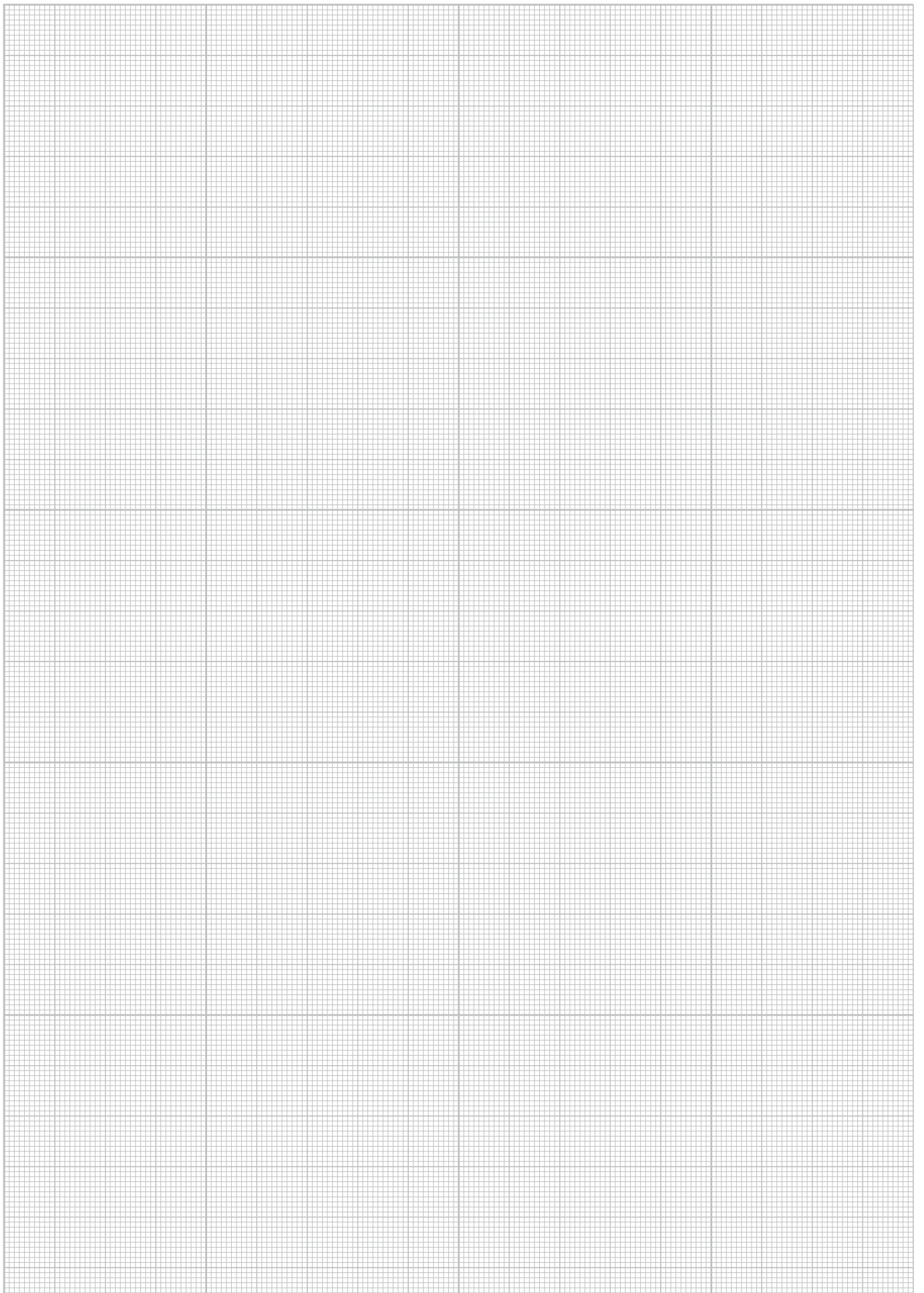
可以同時使用一種成型刀具加工上述閥孔（除先導鑽孔和交叉鑽孔外）。

⊙ — 這些直徑的同軸度要小於 0.002 T.I.R.，並且孔口平面垂直度要小於 0.001 T.I.R。

* — 深度由孔口平面確定。

— 除非在加工圖紙上另行標示。未指明的公差為 ±0.005。

** — 只有在特定產品目錄頁上註明時才要求閥孔變量“A”。



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