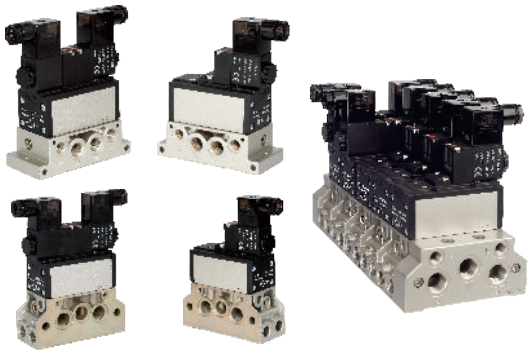
ISO標準電磁閥(五口二位、五口三位)

ESV200、300、400、600系列

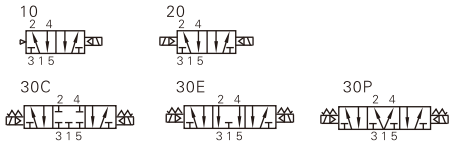


規 格

產品系列		200系列	300系列	400系列	600系列
有效截面積(Cv值) mm²		32(Cv=1.8)	42(Cv=2.32)	69(Cv=3.85)	108(Cv=6.0)
工作介質		空氣（經40μm以上濾網過濾）			
作動方式		內部引導式或外部引導式			
潤滑 [注1]		不需要			
工作壓力	內部引導式	0.2~1.0MPa(2~10bar)(29~145psi)			
	外部引導式	0~1.0MPa(0~10bar)(0~145psi)			
外部引導控制壓力		0.2~1.0MPa(2~10bar)(29~145psi)			
保證耐壓力		1.5MPa(15bar)(215psi)			
工作溫度		-20~70℃			
底座接管口徑 [注2]		PT1/4	PT3/8	PT1/2	PT3/4
端板接管口徑		PT3/8	PT1/2	PT3/4	PT1
使用電壓範圍		AC：±15%　DC：±10%			
耗電量		AC220V/AC110V：4.5VA　AC24V：5.0VA　DC24V/DC12V：3.0W			
換向時間 (開\閉) [注3]	10\20型	33\41ms	42\55ms	50\68ms	55\85ms
	30C\E\P型	38\50ms	50\62ms	50\68ms	55\85ms
耐熱等級		B級			
綫圈防護等級		IP65			
基座安裝面尺寸		符合ISO5599-1標準			

[注1] 如有加油潤滑，中途不可停止，建議潤滑油爲ISO VG32或同級用油；
[注2] 接管牙型有G牙可供選擇；
[注3] 0.5MPa工作壓力狀態時的換向時間。

符 號



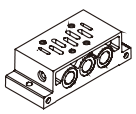
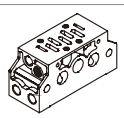
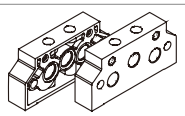
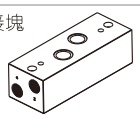
產品特性

1、外觀簡潔、結構緊湊；
2、連接面安裝尺寸符合 ISO 5599-1 國際標準；
3、產品采用專用密封件，流量大，壽命長；
4、200、300、400系列改變密封件的裝配方向即可實現閥體內部先導式、外部先導式、氣控閥之間的轉換；
5、閥體需配底座安裝，底座有單體和多聯兩種形式，多聯底座可方便組合成任意連數；
6、底座有多種接氣和安裝方式，方便使用；
7、200、300、400系列底座集成排氣節流功能，使用時無需外接節流閥。

成品訂購碼

底座與端板組件成品訂購碼　**ESV 20 1M □ □ □**

① ② ③ ④ ⑤ ⑥

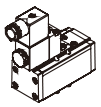
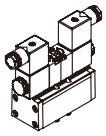
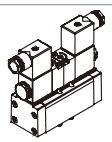
①規格代號	②系列代號	③型式代號	④牙型代號	⑤外部引導氣口方式	⑥氣口方位代號
ESV：ISO標準電磁閥	20：200系列 30：300系列 40：400系列 60：600系列	1M：單體型底座 	空白：PT牙 G：G牙	空白：獨立外部引導氣口	空白：側面工作氣口 B：底面工作氣口
		2M：多聯型底座 		空白：獨立外部引導氣口 W：集中外部引導氣口	空白：左側工作氣口 R：右側工作氣口 B：底面工作氣口
		3M：端板組件 		無此代碼	無此代碼
	60：600系列	4M：多聯型底座轉接塊 		無此代碼	空白：左側工作氣口 R：右側工作氣口

[注] 1、端板組件的接管口徑比同系列底座的接管口徑大一個規格(例如ESV202M, 底座接管口徑爲1/4"，端板接管口徑爲3/8")；
2、單體底座均爲獨立外部氣口；
3、端板組件與多聯底座配套使用，可同時用于獨立外部氣口、集中外部引導氣口多聯底座；
4、600系列單體底座，祇有側面工作氣口；多聯底座祇有獨立外部引導氣口，底面工作氣口；
5、祇有600系列才有多連底座轉接塊。

成品訂購碼

閥體成品訂購碼 **ESV 2 10 A □ □**

① ② ③ ④ ⑤ ⑥

①規格代號	②系列代號	③電控方式	④標準電壓	⑤接電方式	⑥引導方式 [注1]
ESV：ISO標準電磁閥	2：200系列 3：300系列 4：400系列 6：600系列	10：雙位置單電控  20：雙位置雙電控  30C：三位置雙電控中位封閉型 30E：三位置雙電控中位排氣型 30P：三位置雙電控中位壓力型 	A：AC220V B：DC24V C：AC110V E：AC24V F：DC12V	空白：DIN插座式 I：出綫式	空白：內部引導式 W：外部引導式

[注1] 內部引導式與外部引導式可互換(600系列除外)，請參照"安裝與使用"中的第1.2條方式調整先導異型O令的安裝方式即可。

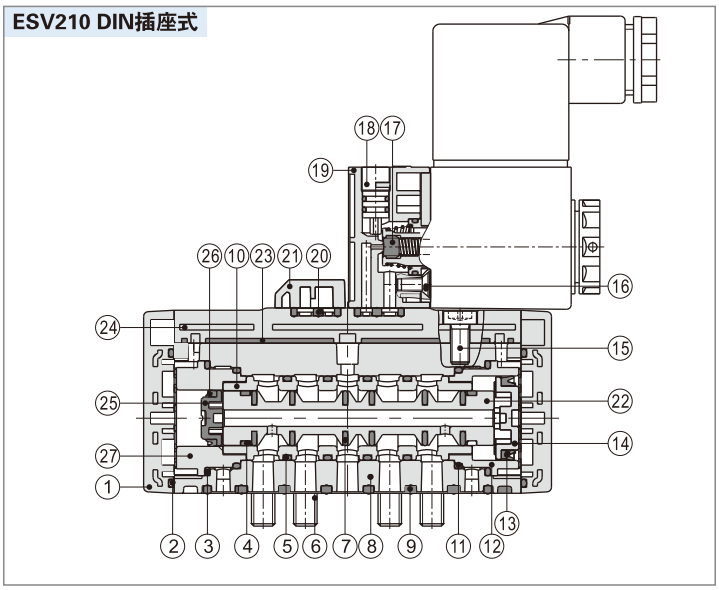
附件訂購碼 **P-ESV200M-R2**

① ② ③

①附件代號	②適用產品代號	③附件類別
P：組合附件	ESV200M：200系列底座 ESV300M：300系列底座 ESV400M：400系列底座 ESV600M：600系列底座	R2：底座用盲板

內部結構

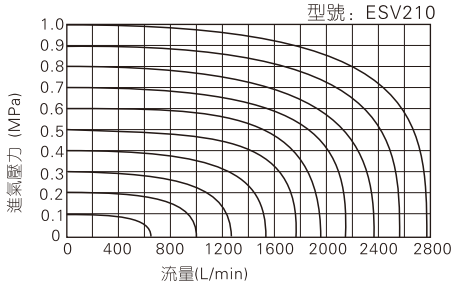
ESV210 DIN插座式



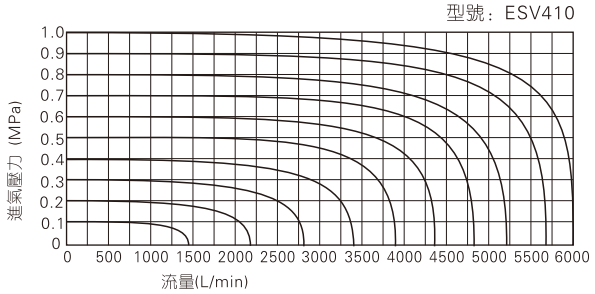
序號	名稱	序號	名稱	序號	名稱
1	底蓋	10	隔套	19	引導本體
2	O型環	11	O型環	20	異形O令
3	O型環	12	大活塞套	21	蓋板
4	耐磨環	13	異形O令	22	軸芯
5	O型環	14	活塞(引導座)	23	異形O令
6	內六角承窩頭螺絲	15	十字圓頭螺釘	24	上蓋
7	O令	16	十字埋頭螺釘	25	活塞
8	本體	17	止泄墊	26	異形O令
9	異形O令	18	手動銷	27	小活塞套

流量特性

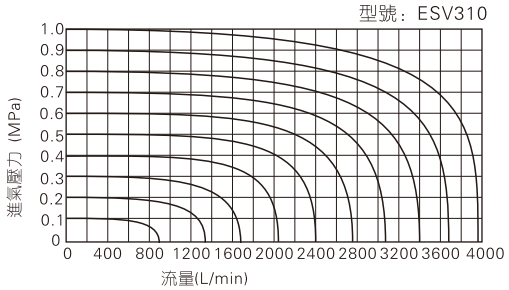
型號：ESV210



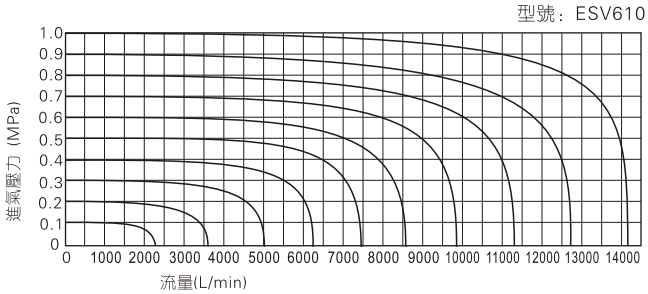
型號：ESV410



型號：ESV310



型號：ESV610



安裝與使用(200、300、400系列適用)

1、閥體先導方式的分類與選用

1.1、按先導氣的來源不同分爲：內部先導式與外部先導式。默認狀態爲內部先導式；

1.2、通過如右圖所示方式可在內部先導與外部先導之間互相轉換：

2、多聯底座外部先導方式的分類和選擇：

2.1、外部先導方式按供氣方位的不同可分爲：獨立先導和集中先導。

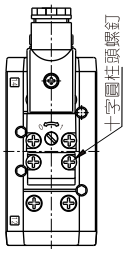
2.2、選擇獨立先導時，氣管接頭接獨立先導氣口，選擇集中先導時，氣管接頭接集中先導氣口。

2.3、多聯底座安裝時，聯在一起的底座的先導方式必須相同，如：全是集中先導或全是獨立先導。

*注：底座上不同先導型式均衹對應閥體外部先導；閥體采用內部先導時，底座上的先導氣口不起作用。

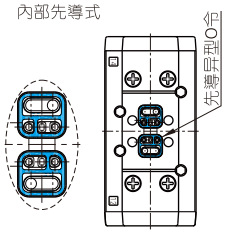
1

揮下四個十字圓柱頭螺釘;
取下綫圈、引導本體和蓋板



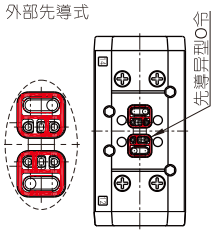
2

按下圖所示方位裝配先導異型O令，再將蓋板、引導本體、綫圈裝配回位，即變爲內部先導式



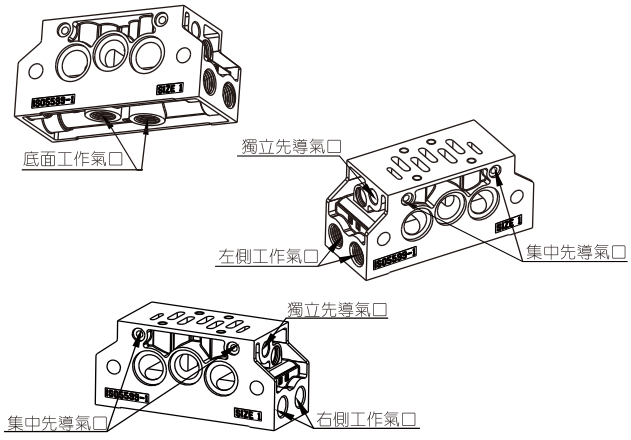
3

按下圖所示方位裝配先導異型O令，再將蓋板、引導本體、綫圈裝配回位，即變爲外部先導式



3、多聯底座氣口方位及對應編號：

多聯底座各氣口方位示意圖



多聯底座訂購碼與各氣口通斷狀態對應關系

訂購碼\氣口名稱	左側工作氣口	右側工作氣口	底面工作氣口	集中先導氣口	獨立先導氣口
ESV202MG	通	不通	不通	不通	通
ESV202MGR	不通	通	不通	不通	通
ESV202MGB	不通	不通	通	不通	通
ESV202MGW	通	不通	不通	通	不通
ESV202MGWR	不通	通	不通	通	不通
ESV202MGWB	不通	不通	通	通	不通

注：底面工作氣口不通時，用堵頭封閉氣口。
上表爲200M系列底座訂購示例，其它系列訂購碼方式相同，更改系列代碼即可。

4、排氣節流功能

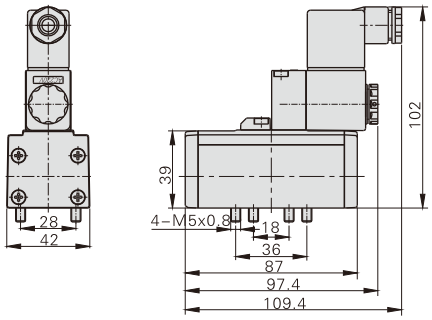
4.1、底座集成了排氣節流功能，具體位置位于底座左右兩側，具體位置如下圖所示。

4.2、調節螺絲可用內六角扳手進行調節。

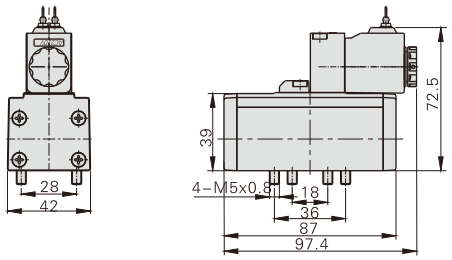
4.3、調節螺絲順時針轉動爲減小排氣口，逆時針轉動爲增大排氣口。

外部規格(ESV200系列)

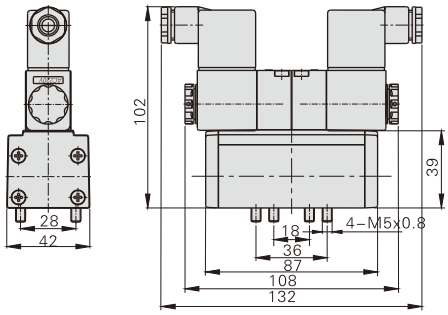
ESV210DIN插座式



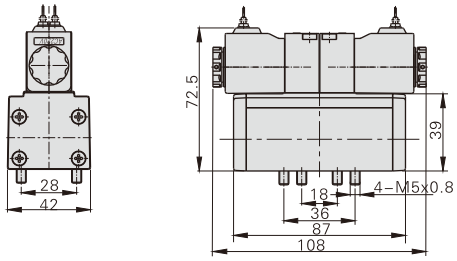
ESV210出綫式



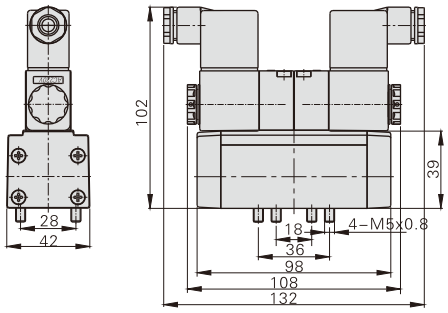
ESV220DIN插座式



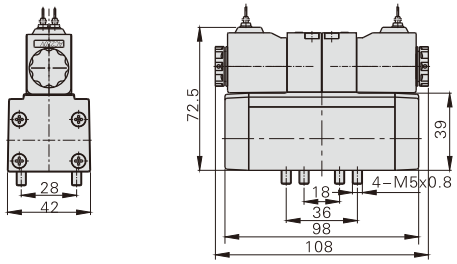
ESV220出綫式



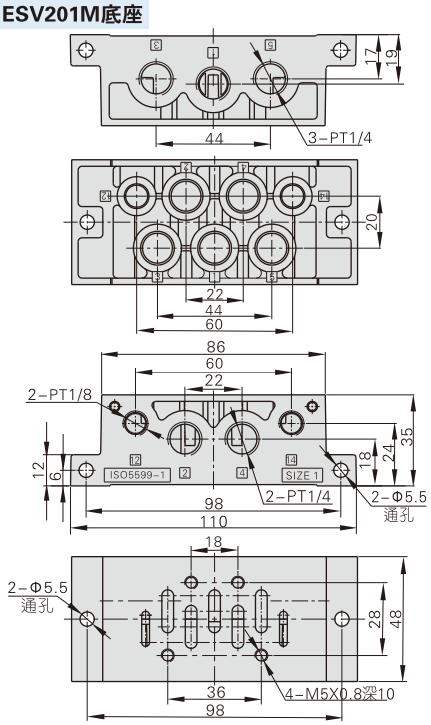
ESV230DIN插座式



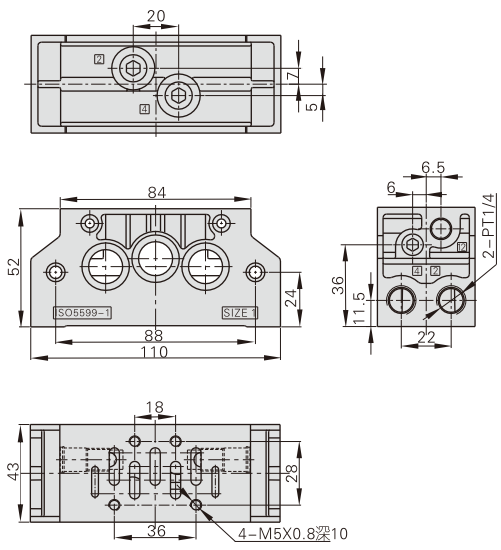
ESV230出綫式



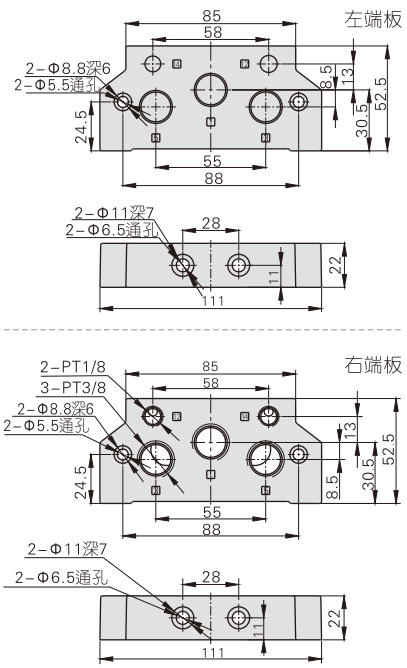
ESV201M底座



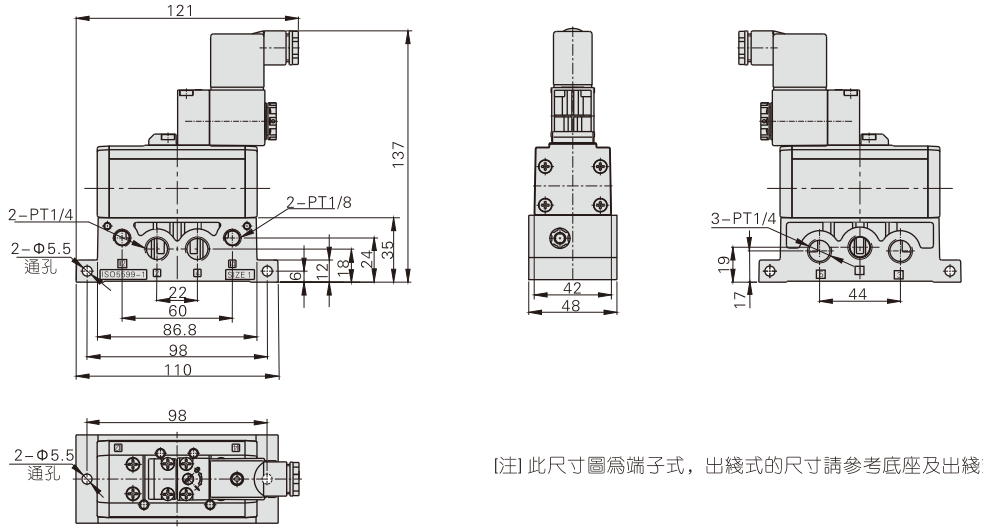
ESV202M底座



ESV203M底座

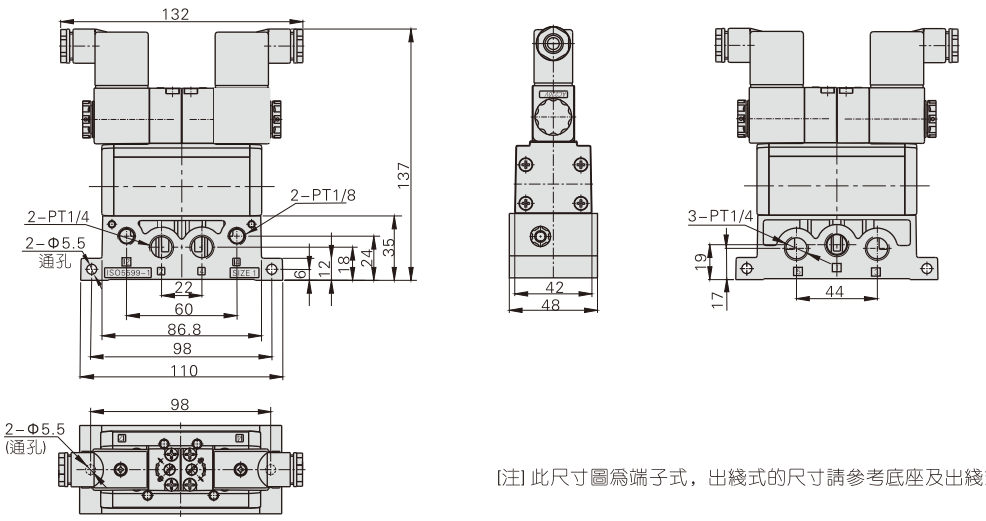


ESV210+ESV201M



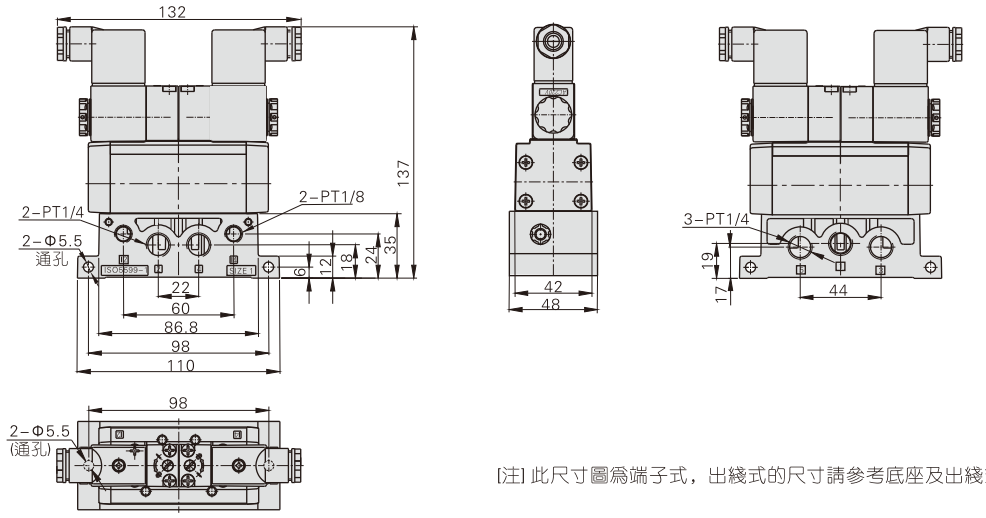
[注] 此尺寸圖爲端子式，出綫式的尺寸請參考底座及出綫式的單體閥尺寸。

ESV220+ESV201M



[注] 此尺寸圖爲端子式，出綫式的尺寸請參考底座及出綫式的單體閥尺寸。

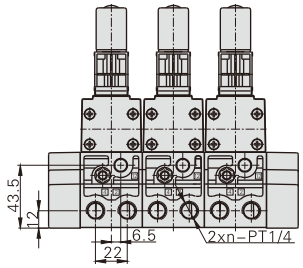
ESV230+ESV201M

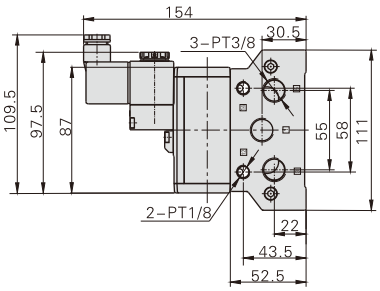


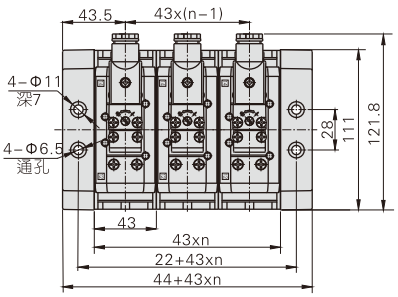
[注] 此尺寸圖爲端子式，出綫式的尺寸請參考底座及出綫式的單體閥尺寸。

ESV210+ESV202M+ESV203M

[注] 圖中n代表單體閥的數量，出線式及三聯以上組合
尺寸請參照此圖幷接合前面出線式的單體閥的尺寸圖。

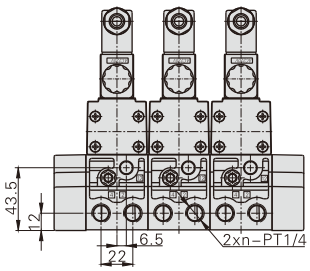


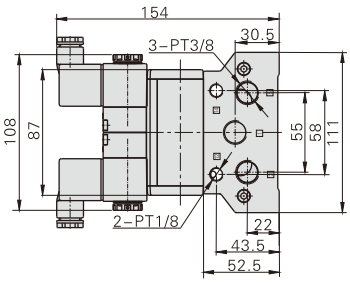


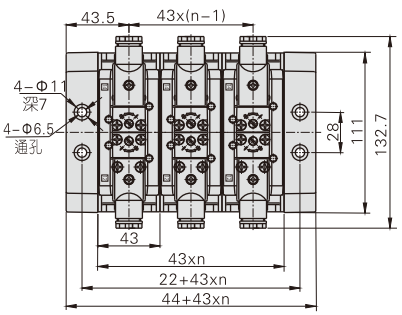


ESV220+ESV202M+ESV203M

[注] 圖中n代表單體閥的數量，出線式及三聯以上組合
尺寸請參照此圖幷接合前面出線式的單體閥的尺寸圖。

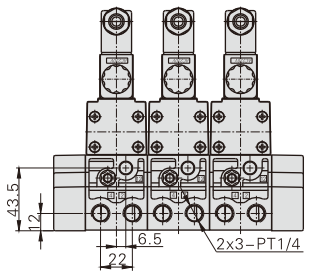


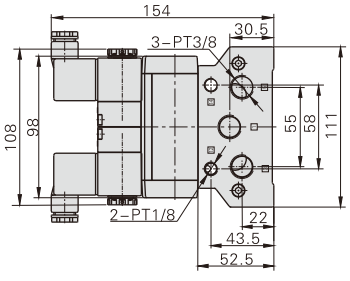


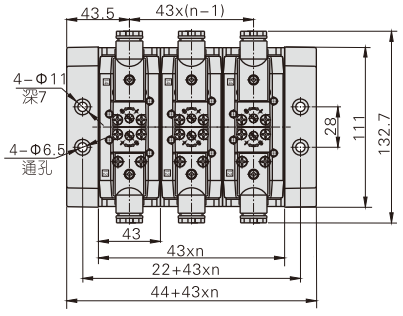


ESV230+ESV202M+ESV203M

[注] 圖中n代表單體閥的數量，出線式及三聯以上組合
尺寸請參照此圖幷接合前面出線式的單體閥的尺寸圖。

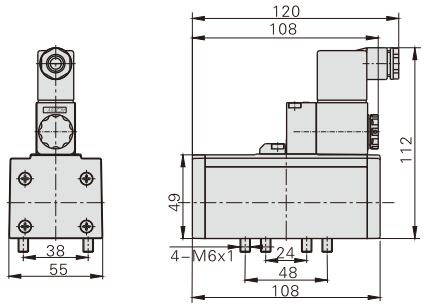




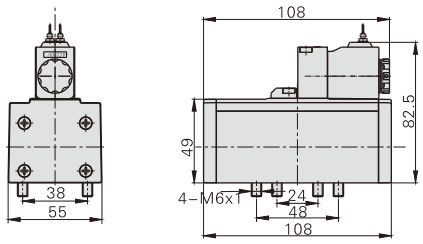


外部規格(ESV300系列)

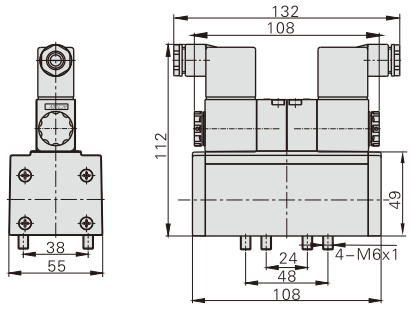
ESV310DIN插座式



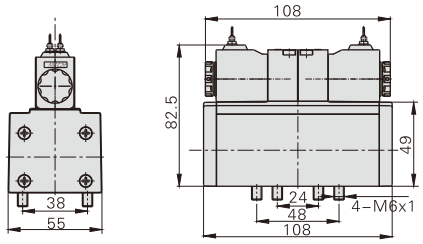
ESV310出綫式



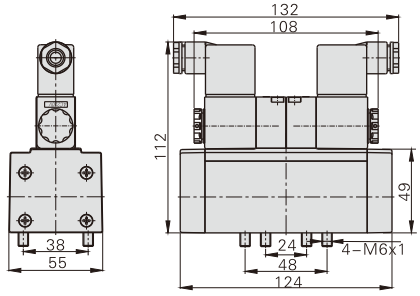
ESV320DIN插座式



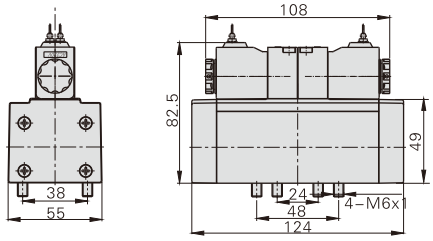
ESV320出綫式



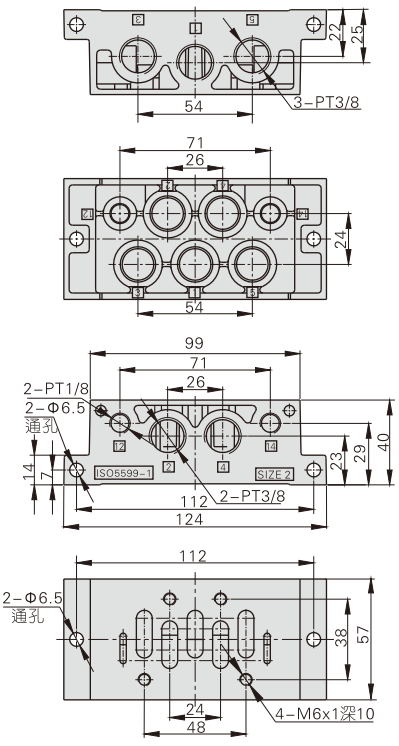
ESV330DIN插座式



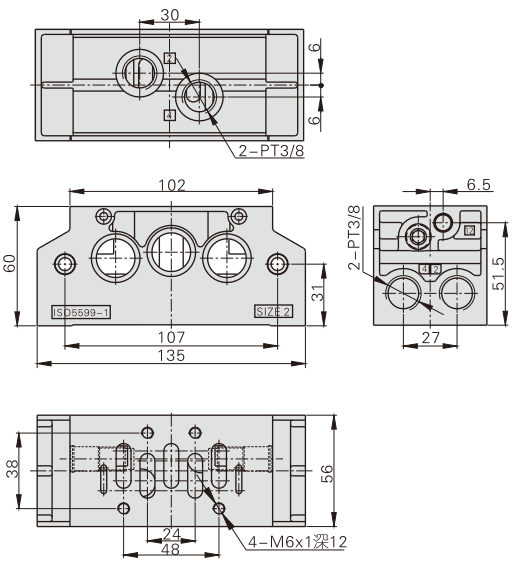
ESV330出綫式



ESV301M底座

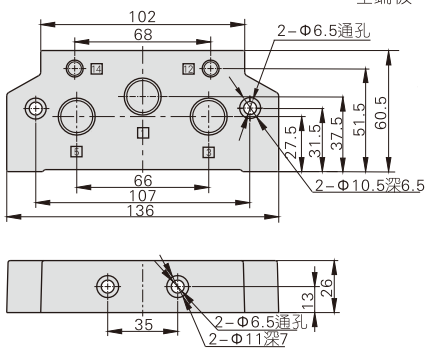


ESV302M底座

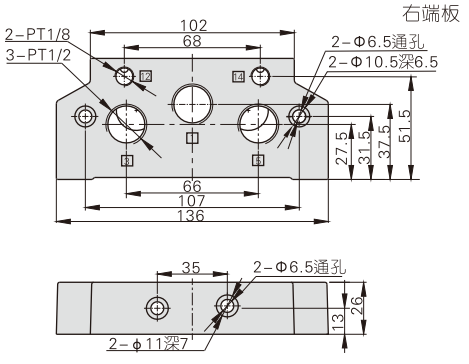


ESV303M底座

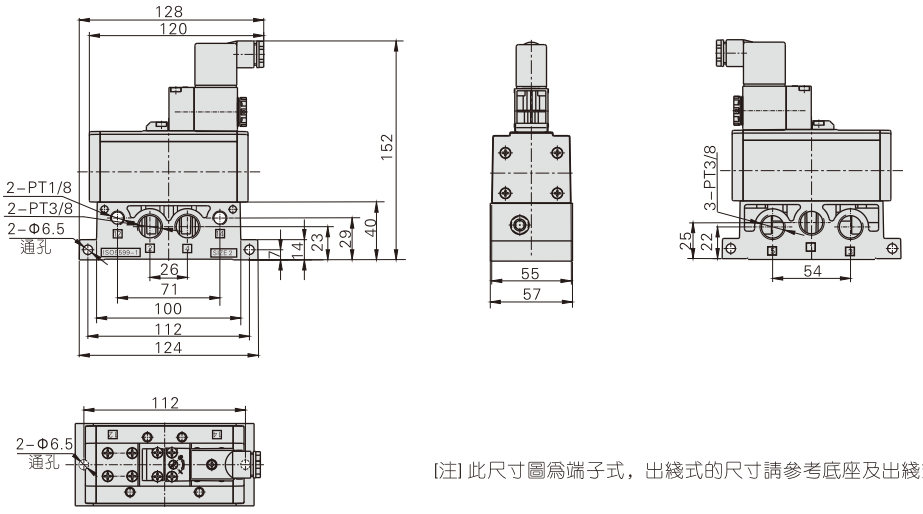
左端板



右端板

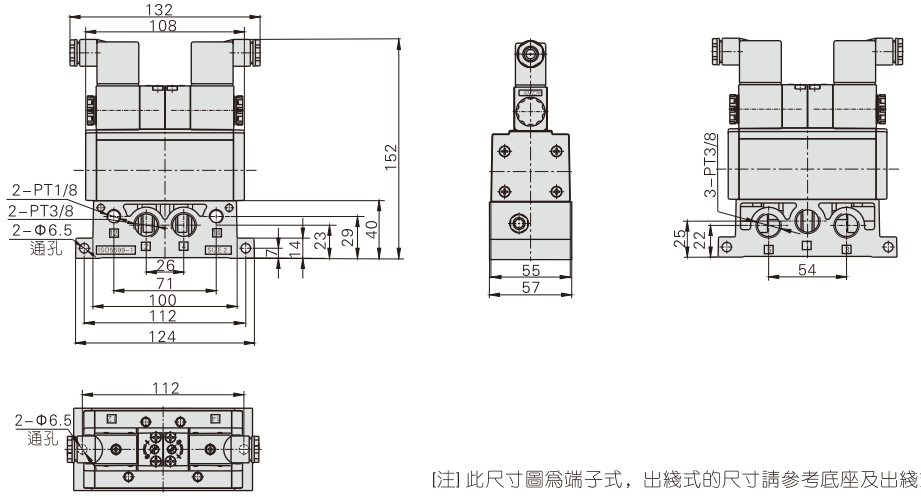


ESV310+ESV301M



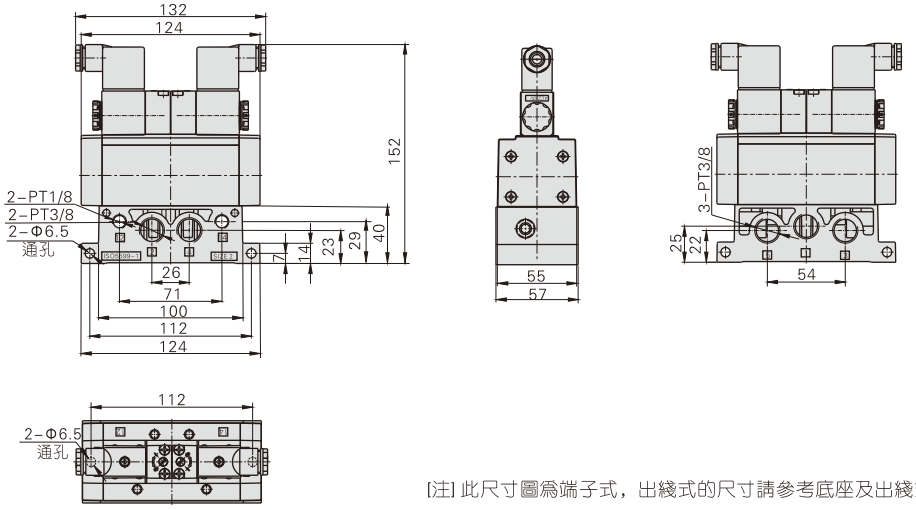
[注] 此尺寸圖爲端子式，出綫式的尺寸請參考底座及出綫式的單體閥尺寸。

ESV320+ESV301M



[注] 此尺寸圖爲端子式，出綫式的尺寸請參考底座及出綫式的單體閥尺寸。

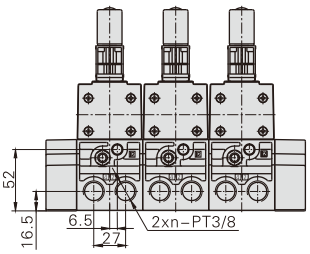
ESV330+ESV301M

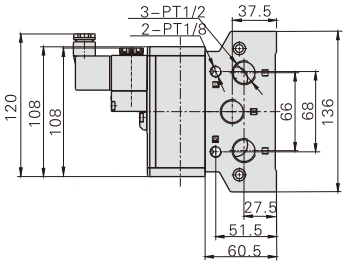


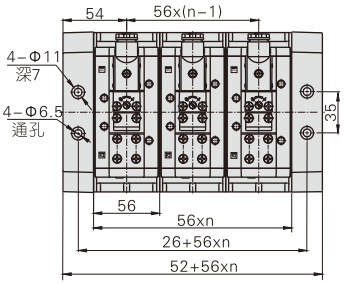
[注] 此尺寸圖爲端子式，出綫式的尺寸請參考底座及出綫式的單體閥尺寸。

ESV310+ESV302M+ESV303M

[注] 圖中n代表單體閥的數量，出綫式及三聯以上組合
尺寸請參照此圖幷接合前面出綫式的單體閥的尺寸圖。

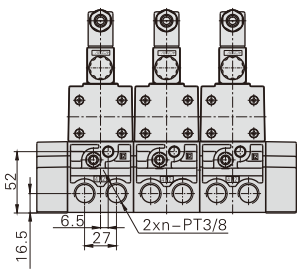


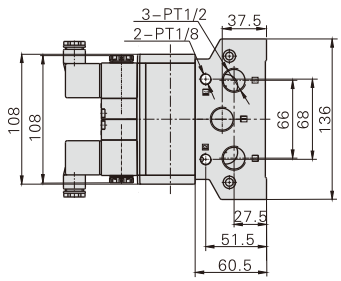


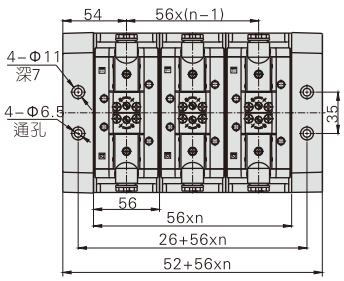


ESV320+ESV302M+ESV303M

[注] 圖中n代表單體閥的數量，出綫式及三聯以上組合
尺寸請參照此圖幷接合前面出綫式的單體閥的尺寸圖。

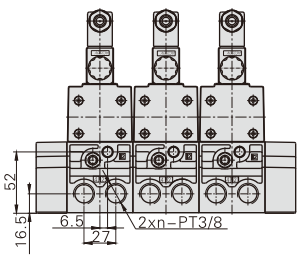


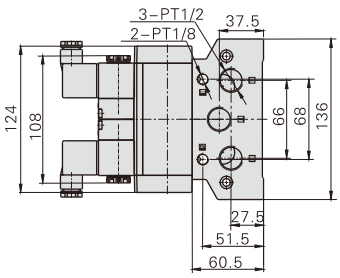


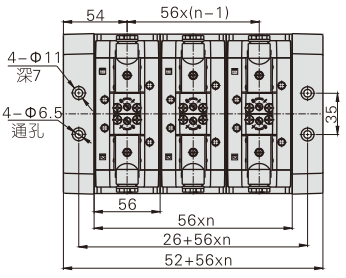


ESV330+ESV302M+ESV303M

[注] 圖中n代表單體閥的數量，出綫式及三聯以上組合
尺寸請參照此圖幷接合前面出綫式的單體閥的尺寸圖。

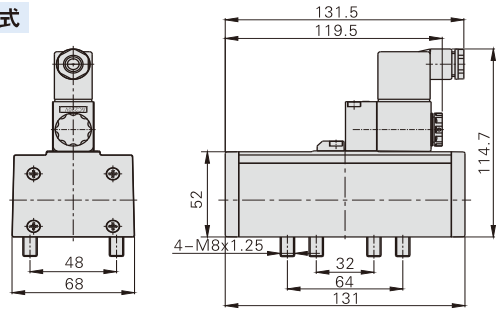




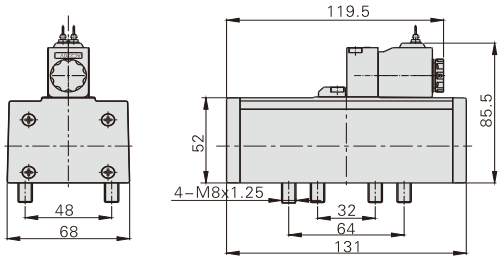


外部規格(ESV400系列)

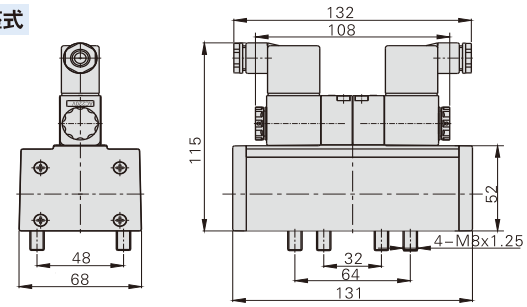
ESV410DIN插座式



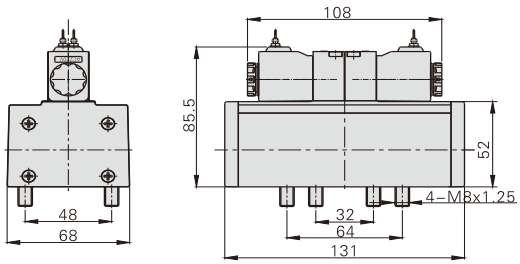
ESV410出綫式



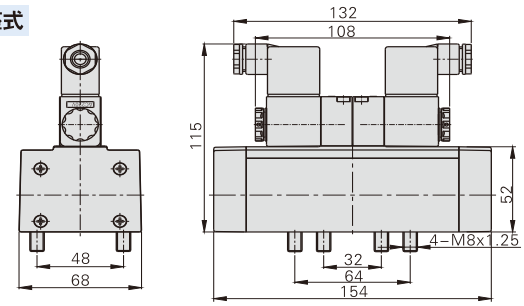
ESV420DIN插座式



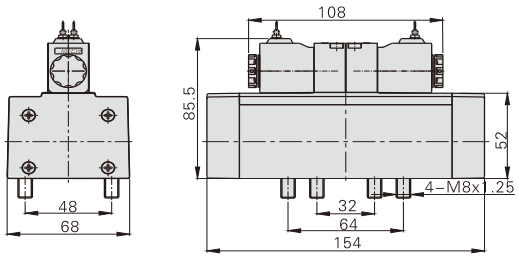
ESV420出綫式



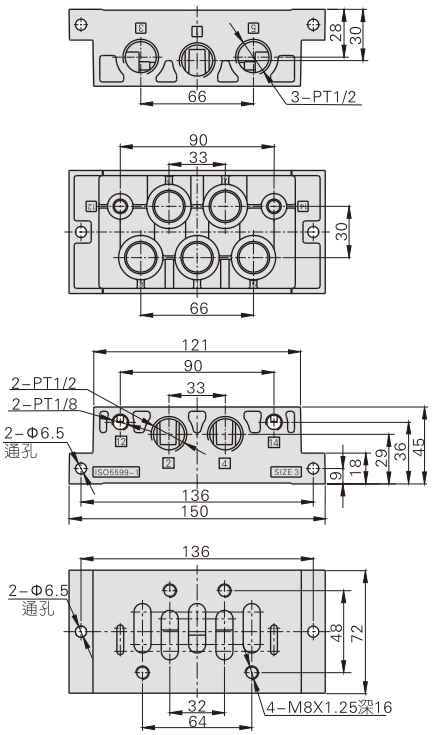
ESV430DIN插座式



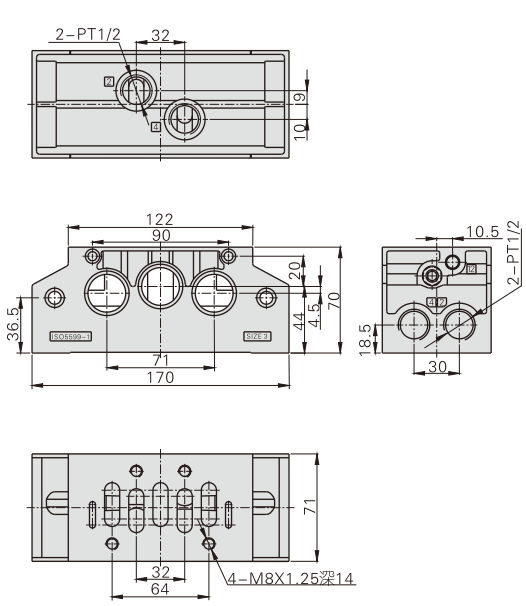
ESV430出綫式



ESV401M底座

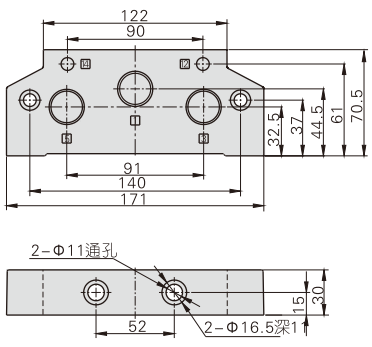


ESV402M底座

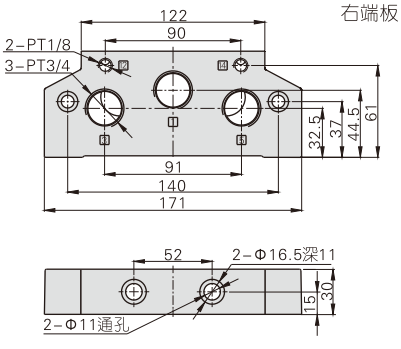


ESV403M底座

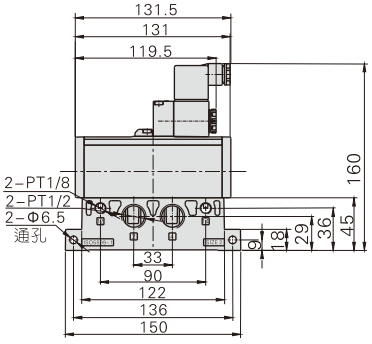
左端板

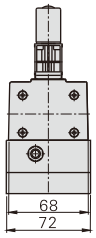


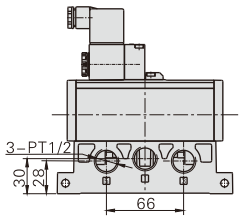
右端板

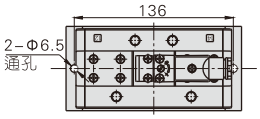


ESV410+ESV401M



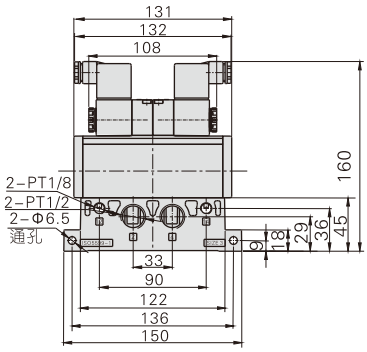


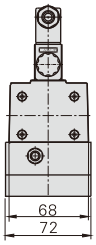


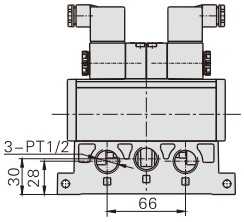


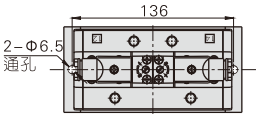
[注] 此尺寸圖爲端子式，出綫式的尺寸請參考底座及出綫式的單體閥尺寸。

ESV420+ESV401M



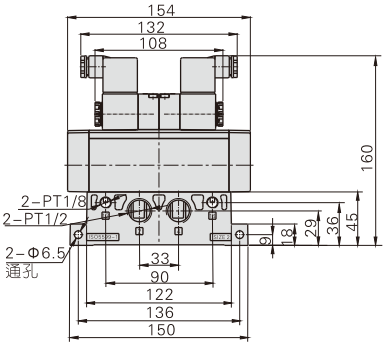


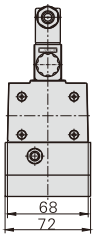


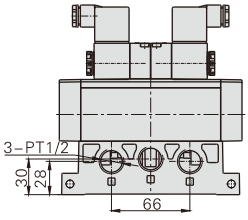


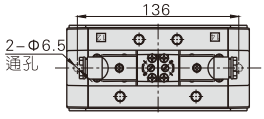
[注] 此尺寸圖爲端子式，出綫式的尺寸請參考底座及出綫式的單體閥尺寸。

ESV430+ESV401M





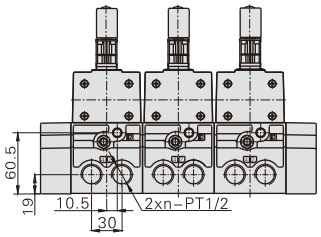


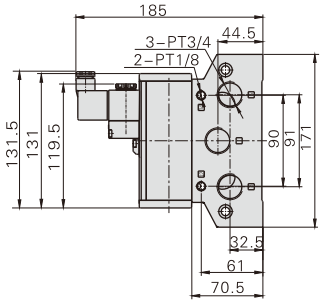


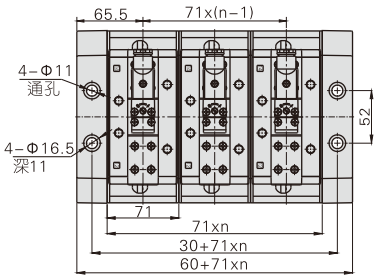
[注] 此尺寸圖爲端子式，出綫式的尺寸請參考底座及出綫式的單體閥尺寸。

ESV410+ESV402M+ESV403M

[注] 圖中n代表單體閥的數量，出綫式及三聯以上組合
尺寸請參照此圖幷接合前面出綫式的單體閥的尺寸圖。

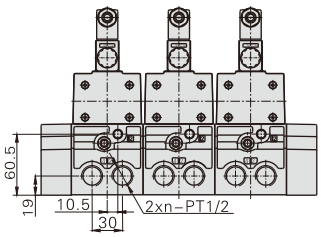


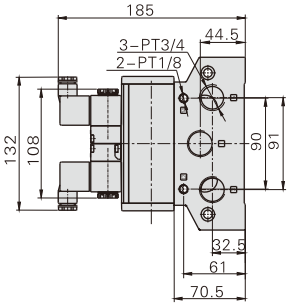


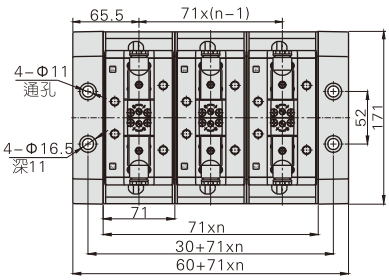


ESV420+ESV402M+ESV403M

[注] 圖中n代表單體閥的數量，出綫式及三聯以上組合
尺寸請參照此圖幷接合前面出綫式的單體閥的尺寸圖。

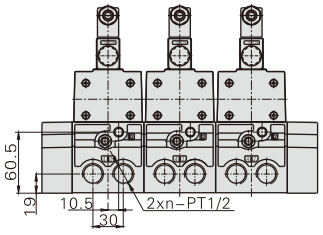


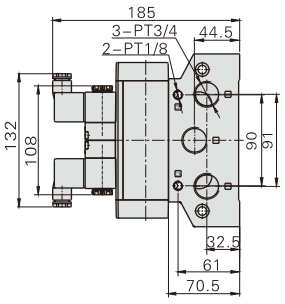


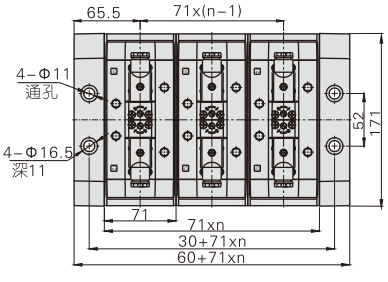


ESV430+ESV402M+ESV403M

[注] 圖中n代表單體閥的數量，出綫式及三聯以上組合
尺寸請參照此圖幷接合前面出綫式的單體閥的尺寸圖。

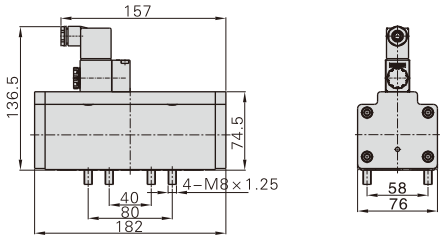




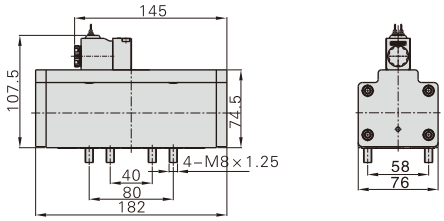


外部規格(ESV600系列)

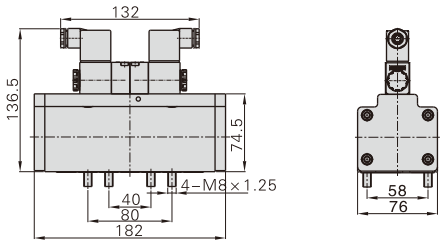
ESV610DIN插座式



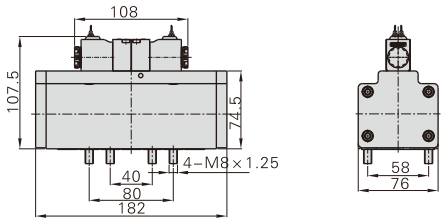
ESV610出綫式



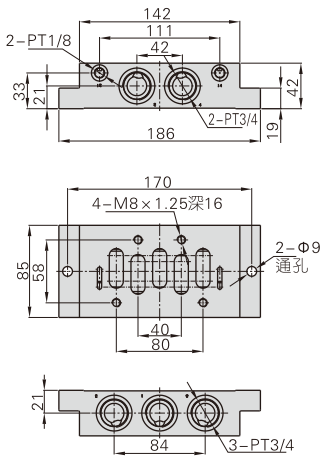
ESV620DIN插座式
ESV630DIN插座式



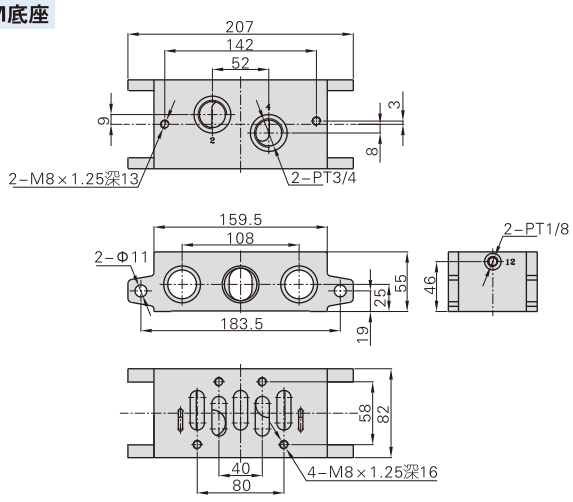
ESV620出綫式
ESV630出綫式



ESV601M底座

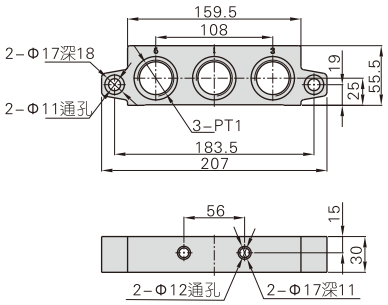


ESV602M底座

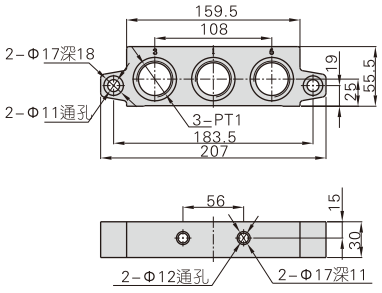


ESV603M底座

左端板

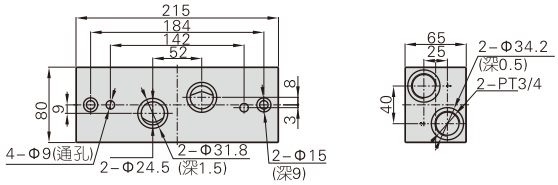


右端板

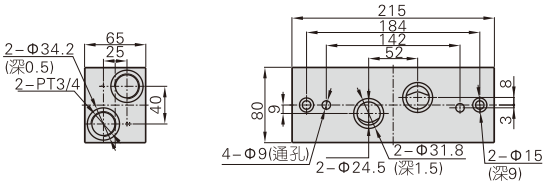


ESV604M底座

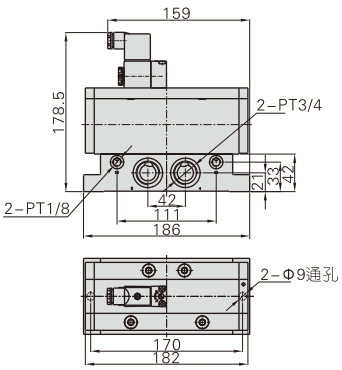
左工作氣口

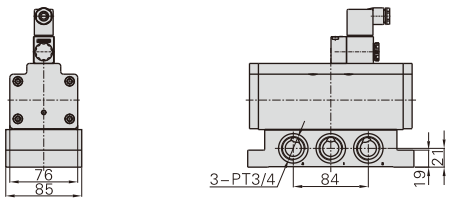


右工作氣口



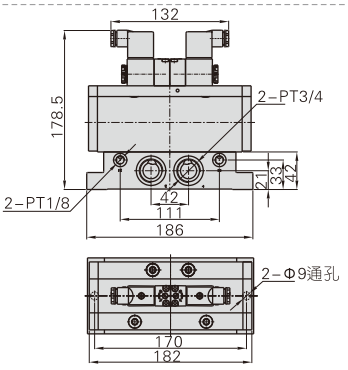
ESV610+ESV601M

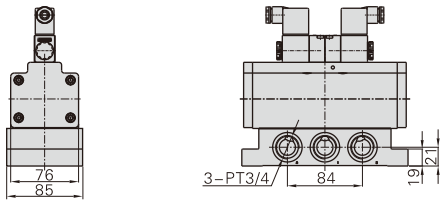




[注] 此尺寸圖爲端子式，出綫式的尺寸請參考底座及出綫式的單體閥尺寸。

ESV620+ESV601M
ESV630+ESV601M

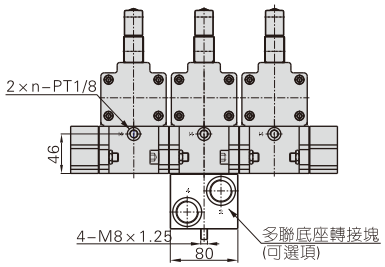


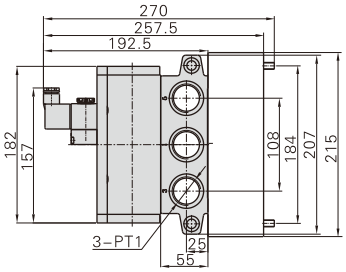


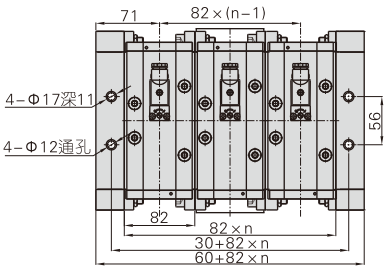
[注] 此尺寸圖爲端子式，出綫式的尺寸請參考底座及出綫式的單體閥尺寸。

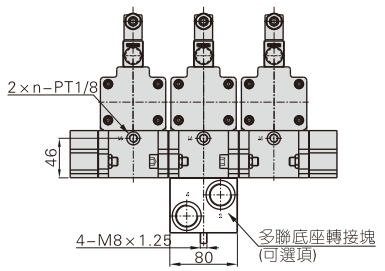
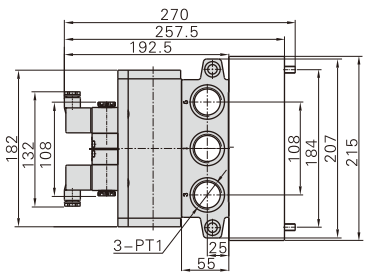
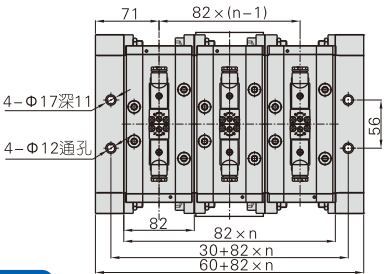
ESV610+ESV602M+ESV603M+ESV604M

[注] 圖中n代表單體閥的數量，出綫式及三聯以上組合
尺寸請參照此圖幷接合前面出綫式的單體閥的尺寸圖。







ESV620+ESV602M+ESV603M+ESV604M
ESV630+ESV602M+ESV603M+ESV604M

[注] 圖中n代表單體閥的數量，出綫式及三聯以上組合
尺寸請參照此圖幷接合前面出綫式的單體閥的尺寸圖。