

# Excellent & Advanced

## VP-600 Series

### Union Ball Valves 由令球閥

- VP-620  
Single Union Ball Valve  
單邊由令球閥
- VP-640  
Double Union Ball Valve  
雙邊由令球閥
- VP-680, 690  
Pneumatic / Electric Actuator  
Double Union Ball Valve  
氣動式 / 電動式雙由令球閥



# VP-620 單邊由令球閥

## Single Union Ball Valve

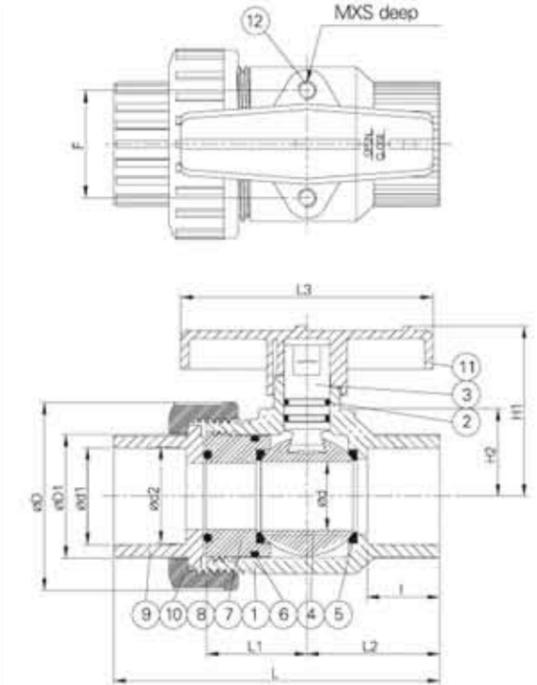
- Pressure rating: 150 PSI @73.4°F (23°C)
- Less flow loss and seal hermetically.
- Fit compactly in spaces
- Actuator could be installed with inserted nut type
- The standard product is without inserted nut
- 工作壓力：150 PSI @73.4°F (23°C)
- 流量損失小，密封性佳
- 體積小，佔用空間小
- 可埋入銅柱加裝自動控制器
- 標準品不埋入銅柱

Type 品號	Size 尺寸	Standard 規格	Material 材質	Seat 墊座	O-ring "O"環	End type 接口
VP-620	1/2"~2"	ANSI, JIS, DIN	PVC	PTFE	EPDM, FPM	Socket, Threaded
VP-621	1/2"~2"	ANSI, JIS, DIN	CPVC	PTFE	EPDM, FPM	Socket, Threaded



Nom.	SIZE	15mm (1/2")	20mm (3/4")	25mm (1")	32mm (1-1/4")	40mm (1-1/2")	50mm (2")
JIS	d1	22.30	26.30	32.33	38.43	48.46	60.56
	d2	21.70	25.70	31.67	37.57	47.54	59.44
	I	22.22	25.4	28.6	31.8	34.9	38.1
ANSI	d1	21.54	26.87	33.65	42.42	48.56	60.63
	d2	21.23	26.57	33.27	42.04	48.11	60.17
	I	22.22	25.40	28.58	31.75	34.93	38.10
DIN	d1	20.3	25.3	32.3	40.3	50.3	63.3
	d2	19.9	24.9	31.9	39.9	49.9	62.9
	I	16	19	22	26	31	38
thd./in	PT	14	14	11	11	11	11
	NPT	14	14	11.5	11.5	11.5	11.5
D		46.5	55	66	82	98	120
D1		31	37	45	54	65	79
d		13	18	23	30	38	48
L		98	115	125	142	153	187
L1		30	37	39	44	46	56
L2		41	47	51	57	65	83
L3		78	92	100	110	121	147
H1		47	57	66	74	87	106
H2		21	26	33	38	40	51
F		30	33	40	47	52	70
M		M5	M6	M6	M8	M8	M8
S		8	8	11	11	11	15

NO.	PART	MATERIAL	QTY
1	BODY 本體	UPVC, CPVC	1
2	STEM O-RING 中心O環	EPDM, FPM	2
3	STEM 中心柱	UPVC, CPVC	1
4	BALL 球體	UPVC, CPVC	1
5	SEAT 墊座	PTFE	2
6	CARRIER O-RING 內特普O環	EPDM, FPM	1
7	SEAL CARRIER 內特普	UPVC, CPVC	1
8	UNION O-RING 由令O環	EPDM, FPM	1
9	END CONNECTOR 外特普	UPVC, CPVC	1
10	UNION NUT 螺帽	UPVC, CPVC	1
11	HANDLE 把手	ABS, PP+GF, PP	1
12	INSERTED NUT 本體埋銅	C3602	2



# VP-640 雙邊由令球閥

## Double Union Ball Valve

- Pressure rating:  
150 PSI @73.4°F(23°C)
- Standard port design
- Adjustable seat tightness
- Easy to disassemble by handle
- Less on-line down time for replacement / maintenance
- Actuator could be installed with inserted nut type
- Standard Product is without inserted nut
- 工作壓力：150 PSI @73.4°F(23°C)
- 標準流量設計
- 雙由令設計可同時當由令及閥門使用
- 墊座鬆緊可做適度調整
- 不須使用特殊工具即可快速裝配
- 可埋入鋼柱加裝自動控制器
- 標準品未埋入鋼柱

Type 品號	Size 尺寸	Standard 規格	Material 材質	Seat 墊座	O-ring O環	End type 接口
VP-640	1/2"~4"	ANSI, JIS, DIN, BS	PVC	PTFE	EPDM, FPM	Socket, Threaded, Flanged
VP-641	1/2"~4"	ANSI, JIS, DIN, BS	CPVC	PTFE	EPDM, FPM	Socket, Threaded, Flanged
VP-643	1/2"~4"	ANSI, JIS, DIN, BS	PVDF	PTFE	EPDM, FPM	Socket, Threaded, Flanged
VP-644	1/2"~4"	ANSI, JIS, DIN, BS	PP	PTFE	EPDM, FPM	Socket, Threaded, Flanged
VP-645	1/2"~4"	ANSI, JIS, DIN, BS	ABS	PTFE	EPDM, FPM	Socket, Threaded, Flanged

● There is no flanged end for BS

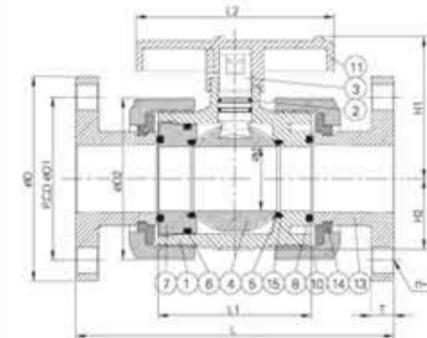
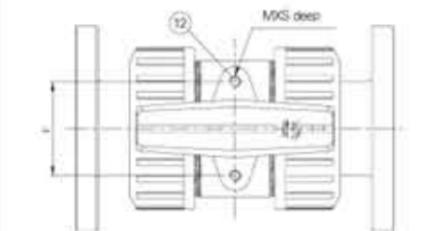
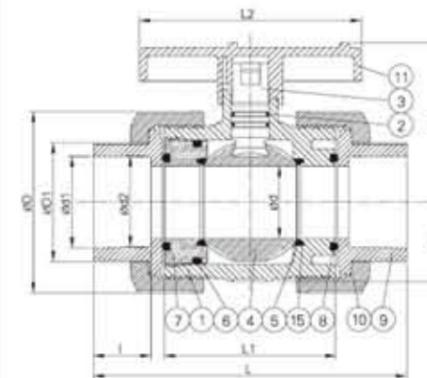
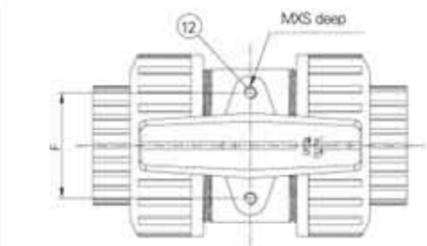


SIZE	15mm (1/2")	20mm (3/4")	25mm (1")	32mm (1-1/4")	40mm (1-1/2")	50mm (2")	65mm (2-1/2")	80mm (3")	100mm (4")
JIS	d1 22.30 d2 21.70 l 22.22	26.30 25.70 25.4	32.33 31.67 28.6	38.43 37.57 31.8	48.46 47.54 34.9	60.56 59.44 38.1	76.60 75.87 61	89.6 88.83 63	114.7 113.77 69
ANSI	d1 21.54 d2 21.23 l 22.22	26.87 26.57 25.40	33.65 33.27 28.58	42.42 42.04 31.75	48.56 48.11 34.93	60.63 60.17 38.10	73.38 72.85 44.45	89.31 88.7 47.63	114.76 114.07 57.15
DIN	d1 20.3 d2 19.9 l 16	25.3 24.9 19	32.3 31.9 22	40.3 39.9 26	50.3 49.9 31	63.3 62.9 38	75.35 74.9 44	90.35 89.9 51	110.6 109.9 61
BS	d1 21.7 d2 21 l 22.22	27.15 26.35 25.4	33.95 33.15 28.58	42.65 41.85 31.75	48.65 47.85 34.93	60.75 59.95 38.1	75.75 74.95 44.45	89.36 88.45 47.63	114.95 113.65 57.15
thd/in	PF 14 NPT 14	14 14	11.5 11.5	11.5 11.5	11.5 11.5	8 8	8 8	8 8	8 8
D	46.5	55	66	82	98	120	140	163	225
D1	31	37	45	54	65	79	92	108	146
d	13	18	23	30	38	48	61	69	99
L	114	135	149	168	175	208	275	304	332
L1	60	73	79	88	95	114	138	158	176
L2	78	92	100	110	121	147	180	224	278
H1	47	57	66	74	87	106	116	130	178
H2	21	26	33	39	41	53	-	-	-
F	30	33	40	47	52	70	-	-	-
M	M5	M6	M6	M8	M8	M8	-	-	-
S	8	8	11	11	11	15	-	-	-

NO.	PART	MATERIAL	QTY
1	BODY 本體	UPVC, CPVC, PP, PVDF, ABS	1
2	STEM O-RING 中心O環	EPDM, FPM	2
3	STEM 中心柱	UPVC, CPVC, PP, PVDF, ABS	1
4	BALL 球體	UPVC, CPVC, PP, PVDF, ABS	1
5	SEAT 墊座	PTFE	2
6	CARRIER O-RING 內特管O環	EPDM, FPM	1
7	SEAL CARRIER 內特管	UPVC, CPVC, PP, PVDF, ABS	1
8	UNION O-RING 由令O環	EPDM, FPM	2
9	END CONNECTOR 外特管	UPVC, CPVC, PP, PVDF, ABS	2
10	UNION NUT 螺帽	UPVC, CPVC, PP, PVDF, ABS	2
11	HANDLE 把手	ABS, PP+GF, PP	1
12	INSERTED NUT 本體埋鋼	C3602	2,4
15	BODY O-RING 本體O環	EPDM, FPM	2

SIZE	15mm (1/2")	20mm (3/4")	25mm (1")	32mm (1-1/4")	40mm (1-1/2")	50mm (2")	65mm (2-1/2")	80mm (3")	100mm (4")
JIS	D 95 D1 70 L 143	100 75 172	125 90 187	135 100 190	140 105 212	155 120 234	175 140 259	185 150 304	210 175 372
ANSI	nom 4-e15 D 89 D1 61 L 143	4-e15 88 70 172	4-e19 108 79 187	4-e19 117 79 190	4-e19 127 89 212	4-e19 152 99 234	4-e19 178 121 259	4-e19 191 140 304	4-e19 229 152 372
DIN	nom 4-e16 D 95 D1 65 L 130	4-e16 105 75 150	4-e16 115 85 160	4-e18 140 100 180	4-e18 150 110 200	4-e18 165 125 230	4-e18 185 145 290	4-e18 200 160 310	4-e18 220 180 350
D2	46.5	55	66	82	98	120	140	163	225
d	13	18	23	30	38	48	61	69	99
L1	60	73	79	88	95	114	138	158	176
L2	78	92	100	110	121	147	180	224	278
H1	47	57	66	74	87	106	116	130	178
H2	21	26	33	39	41	53	-	-	-
F	30	33	40	47	52	70	-	-	-
M	M5	M6	M6	M8	M8	M8	-	-	-
S	8	8	11	11	11	15	-	-	-

NO.	PART	MATERIAL	QTY
1	BODY 本體	UPVC, CPVC, PP, PVDF, ABS	1
2	STEM O-RING 中心O環	EPDM, FPM	2
3	STEM 中心柱	UPVC, CPVC, PP, PVDF, ABS	1
4	BALL 球體	UPVC, CPVC, PP, PVDF, ABS	1
5	SEAT 墊座	PTFE	2
6	CARRIER O-RING 內特管O環	EPDM, FPM	1
7	SEAL CARRIER 內特管	UPVC, CPVC, PP, PVDF, ABS	1
8	UNION O-RING 由令O環	EPDM, FPM	2
10	UNION NUT 螺帽	UPVC, CPVC, PP, PVDF, ABS	2
11	HANDLE 把手	ABS, PP+GF, PP	1
12	INSERTED NUT 本體埋鋼	C3602	2,4
13	FLANGE 法蘭片	UPVC, CPVC, PP, PVDF, ABS	2
14	SET RING 卡環	UPVC, CPVC, PP, PVDF, ABS	2
15	BODY O-RING 本體O環	EPDM, FPM	2



# VP-640 雙邊由令球閥 (N1把手)

## Double Union Ball Valve (N1 HANDLE)

- Pressure rating:  
150 PSI @73.4°F(23°C)
- Standard port design
- Adjustable seat tightness
- Easy to disassemble by handle
- Less on-line down time for replacement / maintenance
- Actuator could be installed with inserted nut type
- Standard Product is without inserted nut
- 工作壓力：150 PSI @73.4°F(23°C)
- 標準流量設計
- 雙由令設計可同時當由令及閥門使用
- 墊座鬆緊可做適度調整
- 不須使用特殊工具即可快速裝配
- 可埋入鋼柱加裝自動控制器
- 標準品未埋入鋼柱

Type 品號	Size 尺寸	Standard 規格	Material 材質	Seat 墊座	O-ring O環	End type 接口
VP-640	1/2"~2"	ANSI, JIS, DIN	PVC	PTFE	EPDM, FPM	Socket, Threaded, Flanged
VP-641	1/2"~2"	ANSI, JIS, DIN	CPVC	PTFE	EPDM, FPM	Socket, Threaded, Flanged
VP-644	1/2"~2"	ANSI, JIS, DIN	PP	PTFE	EPDM, FPM	Socket, Threaded, Flanged

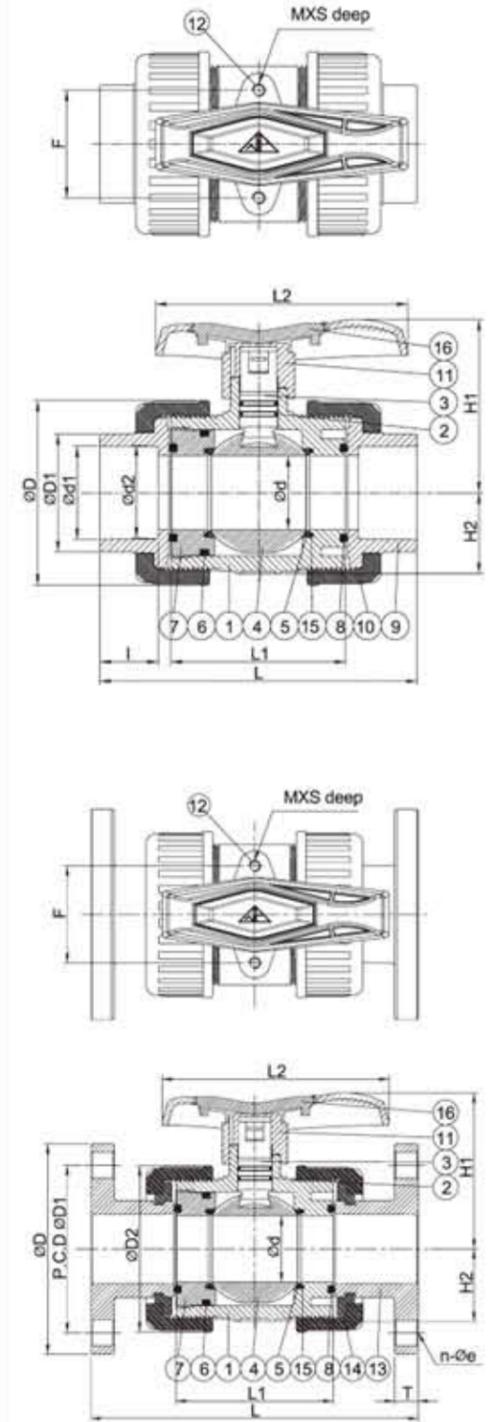


Nom.	SIZE	15mm (1/2")	20mm (3/4")	25mm (1")	32mm (1-1/4")	40mm (1-1/2")	50mm (2")
JIS	d1	22.3	26.3	32.33	38.43	48.46	60.66
	d2	21.7	25.7	31.67	37.57	47.54	59.44
	I	22.22	25.4	28.58	31.75	34.93	38.1
ANSI	d1	21.54	26.87	33.65	42.42	48.56	60.63
	d2	21.23	26.57	33.27	42.04	48.11	60.17
	I	22.22	25.4	28.58	31.75	34.93	38.1
DIN	d1	20.3	25.3	32.3	40.3	50.3	63.3
	d2	19.9	24.9	31.9	39.9	49.9	62.9
	I	16	19	22	26	31	38
thd./in	NPT	14	14	11.5	11.5	11.5	11.5
	BSPT	14	14	11	11	11	11
D		46.3	55.5	66.5	82	98.5	120
D1		30.3	36.3	43.3	52.8	62.5	76.5
d		13	18	23	30	38	48
L		114	135	149	170	176	207
L1		60	73	79	88	95	114
L2		77	95	110	127	143	164
H1		46	57	70	75	94	113
H2		21	26	33	39	41	53
F		30	33	40	47	52	70
M		M5	M6	M6	M8	M8	M8
S		8	8	11	11	11	15

NO	PART NAME	MATERIAL	Q'TY
1	BODY 本體	UPVC,CPVC,PP	1
2	STEM O-RING 中心O環	EPDM,FPM	2
3	STEM 中心柱	UPVC,CPVC,PP	1
4	BALL 球體	UPVC,CPVC,PP	1
5	SEAT 墊座	PTFE	2
6	CARRIER O-RING 內特製O環	EPDM,FPM	1
7	SEAL CARRIER 內特製	UPVC,CPVC,PP	1
8	UNION O-RING 由令O環	EPDM,FPM	2
9	END CONNECTOR 外特製	UPVC,CPVC,PP	2
10	UNION NUT 螺帽	UPVC,CPVC,PP	2
11	HANDLE 把手	ABS	1
12	INSERTED NUT 本體埋鋼	C3602	2,4
15	BODY O-RING 本體O環	EPDM,FPM	2
16	HANDLE CAP 把手蓋	ABS	1

Nom.	SIZE	15mm (1/2")	20mm (3/4")	25mm (1")	32mm (1-1/4")	40mm (1-1/2")	50mm (2")
JIS	D	95	100	125	135	140	155
	D1	70	75	90	100	105	120
	L	143	172	187	190	212	234
	n-øe	4-ø15	4-ø15	4-ø19	4-ø19	4-ø19	4-ø19
ANSI	D	89	98	108	117	127	152
	D1	61	70	79	89	99	121
	L	143	172	187	190	212	234
	n-øe	4-ø16	4-ø16	4-ø16	4-ø16	4-ø16	4-ø19
DIN	D	95	105	115	140	150	165
	D1	65	75	85	100	110	125
	L	130	150	160	180	200	230
	n-øe	4-ø14	4-ø14	4-ø14	4-ø18	4-ø18	4-ø18
D2	D	46.3	55.5	66.5	82	98.5	120
	d	13	18	23	30	38	48
	L1	60	73	79	88	95	114
	L2	77	95	110	127	143	164
H1	H1	46	57	70	75	94	113
	H2	21	26	33	39	41	53
	F	30	33	40	47	52	70
	M	M5	M6	M6	M8	M8	M8
S		8	8	11	11	11	15

NO	PART NAME	MATERIAL	Q'TY
1	BODY 本體	UPVC,CPVC,PP	1
2	STEM O-RING 中心O環	EPDM,FPM	2
3	STEM 中心柱	UPVC,CPVC,PP	1
4	BALL 球體	UPVC,CPVC,PP	1
5	SEAT 墊座	PTFE	2
6	CARRIER O-RING 內特製O環	EPDM,FPM	1
7	SEAL CARRIER 內特製	UPVC,CPVC,PP	1
8	UNION O-RING 由令O環	EPDM,FPM	2
10	UNION NUT 螺帽	UPVC,CPVC,PP	2
11	HANDLE 把手	ABS	1
12	INSERTED NUT 本體埋鋼	C3602	2,4
13	FLANGE 法蘭片	UPVC,CPVC,PP	2
14	SET RING 卡環	UPVC,CPVC,PP	2
15	BODY O-RING 本體O環	EPDM,FPM	2
16	HANDLE CAP 把手蓋	ABS	1



# VP-680 .690 Pneumatic / Electric Actuator Double Union Ball Valve

## 氣動式/電動式雙由令球閥

- Pressure rating: 150 PSI @73.4°F(23°C)
- Pneumatic actuator specification meets with ISO 5211, DIN 3337, VDI / VDE 3845, NAMUR, easy to assemble solenoid valve, limit switches and other accessories.
- For double acting and spring return actuators, the maximum supply pressure is 8 Bar(116PSI), minimum supply pressure is 2.5 Bar(36PSI) (Refer to actuator manufacturer's data if necessary)
- Electric actuator operation voltage 1-phase 110 / 220 V 3-phase 220 / 380 / 460 V
- Electric actuator could manually operate w/o clutch and break
- 工作壓力：150 PSI @73.4°F(23°C)
- 氣動驅動器建議最大進氣空壓 8 Bar(116PSI), 最小 2.5 Bar(36PSI)
- 氣動驅動器規格符合：ISO 5211, DIN 3337, VDI / VDE 3845, NAMUR可加裝電磁閥、微動開關及其他附屬配件。
- 操作電壓：AC單相 110 / 220V, 三相 220 / 380 / 460V
- 電動換手動操作時，不須離合器及煞車即可操作 (詳細資料可參考氣壓缸製造商資料)

Type 品號	Size 尺寸	Standard 規格	Material 材質	Seat 墊座	O-ring O環	End type 接口
VP-680 690	1/2"~4"	ANSI, JIS, DIN, BS	PVC	PTFE	EPDM, FPM	Socket, Threaded, Flanged
VP-681 691	1/2"~4"	ANSI, JIS, DIN, BS	CPVC	PTFE	EPDM, FPM	Socket, Threaded, Flanged
VP-683 693	1/2"~4"	ANSI, JIS, DIN, BS	PVDF	PTFE	EPDM, FPM	Socket, Threaded, Flanged
VP-684 694	1/2"~4"	ANSI, JIS, DIN, BS	PP	PTFE	EPDM, FPM	Socket, Threaded, Flanged
VP-685 695	1/2"~4"	ANSI, JIS, DIN, BS	ABS	PTFE	EPDM, FPM	Socket, Threaded, Flanged

● There is no flanged end for BS



Nom.	SIZE	SIZE									
		15mm (1/2")	20mm (3/4")	25mm (1")	32mm (1-1/4")	40mm (1-1/2")	50mm (2")	65mm (2-1/2")	80mm (3")	100mm (4")	
JIS	d1	22.30	26.30	32.33	38.43	48.46	60.56	76.60	89.6	114.7	
	d2	21.70	25.70	31.67	37.57	47.54	59.44	75.87	88.83	113.98	
	l	22.22	25.4	28.6	31.8	34.9	38.1	61	63	69	
ANSI	d1	21.54	26.87	33.65	42.42	48.56	60.63	73.38	89.31	114.76	
	d2	21.23	26.57	33.27	42.04	48.11	60.17	72.85	88.7	114.07	
	l	22.22	25.40	28.58	31.75	34.93	38.10	44.45	47.63	57.15	
DIN	d1	20.3	25.3	32.3	40.3	50.3	63.3	75.35	90.5	110.6	
	d2	19.9	24.9	31.9	39.9	49.9	62.9	74.9	89.9	109.9	
	l	16	19	22	26	31	38	44	51	61	
BS	d1	21.7	27.15	33.96	42.85	48.85	60.75	-	-	-	
	d2	21	26.30	33.15	41.85	47.85	59.95	-	-	-	
	l	22.22	25.4	28.58	31.75	34.95	38.1	-	-	-	
thd./in	NPT	14	14	11.5	11.5	11.5	11.5	8	8	8	
	PT	14	14	11	11	11	11	11	11	11	
D		46.5	55	66	82	98	120	140	163	225	
D1		31	37	45	54	65	79	92	108	146	
d		13	18	23	30	38	48	61	69	99	
L		114	135	149	168	175	208	275	304	332	
L1		60	73	79	88	95	114	138	158	176	

SIZE	PNEUMATIC ACTUATOR	
	DOUBLE ACTING	SPRING RETURN
1/2"	AT80 DA	AT05 SR
3/4"	AT80 DA	AT05 SR
1"	AT05 DA	AT05 SR
1-1/4"	AT10 DA	AT10 SR
1-1/2"	AT10 DA	AT10 SR
2"	AT10 DA	AT20 SR
2-1/2"	AT20 DA	AT25 SR
3"	AT25 DA	AT35 SR
4"	AT35 DA	AT40 SR

NO.	PART	MATERIAL	QTY
1	BODY 本體	UPVC, CPVC, PP, PVDF, ABS	1
2	STEM O-RING 中心O環	EPDM, FPM	2
3	STEM 中心柱	UPVC, CPVC, PP, PVDF, ABS	1
4	BALL 球體	UPVC, CPVC, PP, PVDF, ABS	1
5	SEAT 墊座	PTFE	2
6	CARRIER O-RING 內特魯O環	EPDM, FPM	1
7	SEAL CARRIER 內特魯	UPVC, CPVC, PP, PVDF, ABS	1
8	UNION O-RING 由令O環	EPDM, FPM	2
9	END CONNECTOR 外特魯	UPVC, CPVC, PP, PVDF, ABS	2
10	UNION NUT 螺帽	UPVC, CPVC, PP, PVDF, ABS	2
11	ELECTRIC ACTUATOR 電動箱	ALUMINIUM ALLOY POWDER COATED	1
12	MOUNTING PAD 固定架	SUS	1
13	COUPLING 連接頭	SUS	1

SIZE	ELECTRIC ACTUATOR	
	WITH HANDWHEEL	WITHOUT HANDWHEEL
1/2"	OM2	OM1
3/4"	OM2	OM1
1"	OM2	OM1
1-1/4"	OM2	OM1
1-1/2"	OM2	OM1
2"	OM2	OMA
2-1/2"	OM3	BM2
3"	OM3	BM2
4"	OM4	-

ELECTRIC ACTUATOR	Single-phase		Three-phase		
	110V	220V	220V	380V	440V
BM2	V	V	V	V	V
OM1	V	V	X	X	X
OMA	V	V	X	X	X
OM2	V	V	V	V	V
OM3	V	V	V	V	V
OM4	V	V	V	V	V

- 備註：  
 1. 上述氣動及電動驅動器(Actuator)搭配型號及圖形僅供參考，可依客戶需求選用。  
 2. 相關規格資料歡迎進一步向本公司洽詢。

NO.	PART	MATERIAL	QTY
1	BODY 本體	UPVC, CPVC, PP, PVDF, ABS	1
2	STEM O-RING 中心O環	EPDM, FPM	2
3	STEM 中心柱	UPVC, CPVC, PP, PVDF, ABS	1
4	BALL 球體	UPVC, CPVC, PP, PVDF, ABS	1
5	SEAT 墊座	PTFE	2
6	CARRIER O-RING 內特魯O環	EPDM, FPM	1
7	SEAL CARRIER 內特魯	UPVC, CPVC, PP, PVDF, ABS	1
8	UNION O-RING 由令O環	EPDM, FPM	2
9	END CONNECTOR 外特魯	UPVC, CPVC, PP, PVDF, ABS	2
10	UNION NUT 螺帽	UPVC, CPVC, PP, PVDF, ABS	2
11	PNEUMATIC ACTUATOR 氣壓缸	EXTRUDED ALUMINIUM ALLOY	1
12	MOUNTING PAD 固定架	SUS	1
13	COUPLING 連接頭	SUS	1
14	SUPPORT (2 1/2"~4") 支撐架	UPVC	2
15	GASKET (2 1/2"~4") 墊片	EPDM	2

