



SUPER
塑寶牌

塑寶®

可空轉

SV型立式耐酸鹼泵浦

WET/DRY RUNNING VERTICAL PUMPS



SUPER PUMPS

SV(316#) / SVT (鈦金屬-Titanium metal) Double impellers、雙葉輪、Single vapor seal、單軸封

The SV / SVT series vertical pumps are dependable, airless and are the-first-of-their-kind in the world. These pumps function without introducing air into the fluid which can sometimes destroy special chemical baths. The pump shaft incorporates a keyed lock to the impeller so that if the pumps run in reverse, it will not damage the housing or impeller. There are no seals or bushings that can be damage if the pumps run dry. The SV/SVT Series features a slotyted air gap in the pump base, thereby preventing chemicals from penetrating to the motor base or bearings. The full motor horsepower is translated into pumping power via the shaft.

These pumps are used in a wide range of applications, from chemical recirculation to process modules. The vertical design has a maximum fluid temperature of 203°F(95°C).

The SV/SVT series pumps are designed to run inside or outside the tank. However, the installation instructions should be followed.

SV/SVT泵可靠，無氣泡而且是世界上同類機種中的第一部，此泵的作用是不會帶空氣進入溶液中，空氣有時會破壞特殊的化學藥水，該泵軸心加入一個鍵來固定葉輪，因此如果泵逆轉，不會損壞罩殼或葉輪，如果泵空轉時，沒有軸封或襯套會磨損。SV/SVT泵有一個特點，在其泵浦座有通氣槽，因此防止化學藥水滲透到馬達座或軸承，馬達全部的馬力經由軸心完全轉化為抽送的動力。

此泵廣泛地應用於從化學藥水循環到加工模組等各種用途，直立式的設計，可用於最高流體溫度95°C(203°F)，SV/SVT泵是設計用來做槽內式或槽外安裝使用，但一定要依安裝高度之規定來安裝。

SV / SVT Series Seal-less/Airless:

- 1 Year Warranty.
- SV - 316 Stainless steel material.
- SVT - Titanium metal material.
- Airless vertical pump.
- Max. fluid temperature:203°F(95°C).
- Both in-tank and out-tank use available.
- High efficiency - low operating cost, leak-free operation and easy maintenance.
- Excellent chemical resistance.
- No seals or bearings in pump head to wear out.
- Continuous chemical duty TEFC motors with oversized bearings in motor casing.
- Simplicity of design makes these pumps easy to service and operate.
- 1/2" thickness mounting plate.
- Both flanges of motor have oil seals to prevent acid vapor from entering the motor.
- Besides,extra vapor seal can also stop the acid vapor to reach the bearing.
- Break-through double impellers.
- SVT cast in titanium metal pump, suitable for special chemical liquid. The specification is 1~2HP.

SV / SVT 泵

- 1年保固。
- SV - 不鏽鋼316材質。
- SVT - 鈦金屬材質。
- 無氣泡立式泵。
- 最高流體溫度：95°C(203°F)。
- 泵浦可槽內槽外安裝。
- 高效率，低操作成本，不洩漏，易於維護
- 耐腐蝕性優。
- 將泵頭中沒有軸封或軸承，不會磨耗。
- 持續重負載的TEFC馬達，在馬達罩殼中有加大規格的軸承。
- 簡單化的設計使這種泵易於使用及操作
- 1/2"厚安裝板。
- 馬達前後托架有油封設計，泵體又有乾式軸封設計，防止酸氣進入馬達軸承。
- 雙葉輪設計。
- SVT 鈦金屬泵浦，可耐特殊之化學藥液，規格有1/2~2HP。

Typical applications 主要用途：

- Chemical or water recirculation/化學藥水或清水循環
- Waste treatment/廢水處理
- Plating solutions /電鍍
- PCB process chemical recirculation/PCB製程藥水循環

MODEL IDENTIFICATION

型號說明

SV - 40 SK 1 6 - N S O S - N O 1
1 2 3 4 5 6 7 8 9 10 11 12

- | | | |
|--|--|---|
| (1) Type機型編號
SV-不鏽鋼316#
SVT-鈦金屬 | (6) O-Rings O環
N-NBR. E-EPDM.
V-VITON. T-TEFLON. | (10) Over-Flow
H-Valve/Hose
加裝溢流排氣軟管
O-Plug Screw/堵住螺絲
N-Standard/標準機型 |
| (2) In-Outlet 出入口徑
25-1" 40-1-1/2" 50-2"
65-2-1/2" 80-3" | (7) Pump Material 泵體材質
S-SUS316. T-Titanium. | (11) O-Round Motor Flange
電機圓托
M-Square Motor Flange
電機方托
P-SP pump motor
SP型泵電機
Y-永磁電機 |
| (3) Sp Gravity 比重
SK-1.1 SP-1.4 | (8) Internal Installation
I-槽內安裝
External Installation
O-槽外安裝 | (12) 出入口規格Flange
In/outlet options
1-法蘭Flange 10K
5-法蘭Flange 5K |
| (4) Power 馬力
1/2:1/2HP 1:1HP
2:2HP 3:3HP 5:5HP
7:7.5 HP 10:10HP | (9) Model 規格
S-Special/特殊規格
A-Special Seal/特制軸封
N-Standard/標準規格
L-Double impellers
/無氣泡葉輪 | |
| (5) Frequency 頻率
5-50Hz 6-60Hz | | |

SPECIFICATIONS PERFORMANCE CHART

規格/性能曲線

※ 重量/性能以實物為準

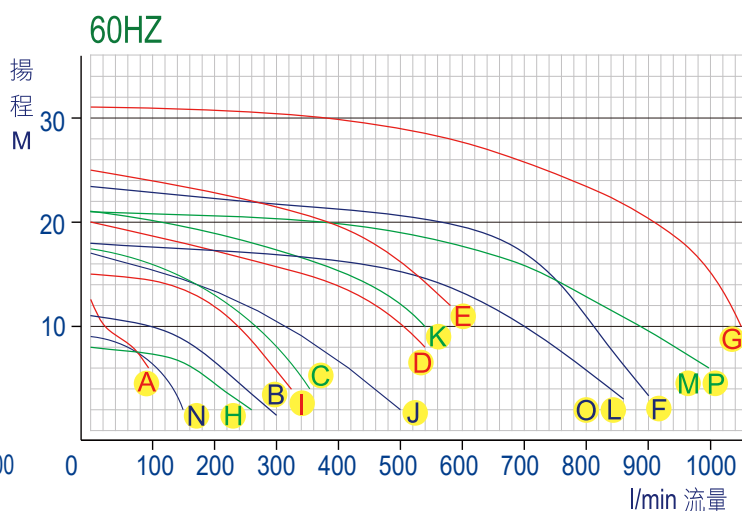
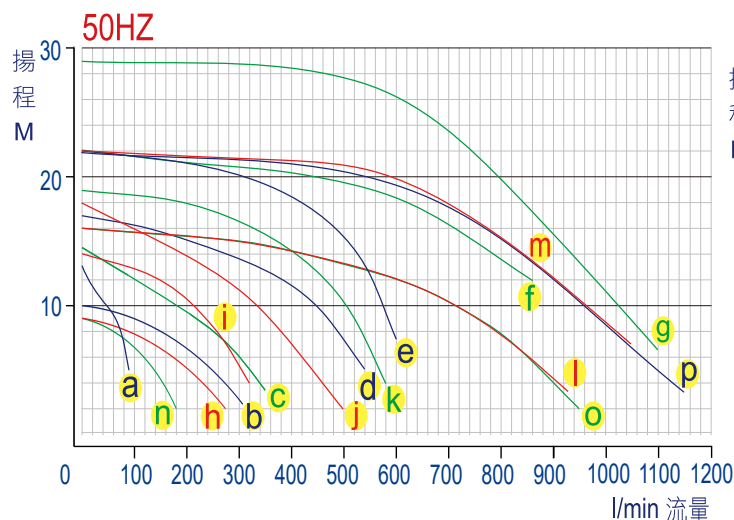
Weight / Performance Is For Reference Only Actual Product May Vary

(測試流體：水 比重1.0)

Test Fluid : Water Sp.Gravity 1.0

Model 規格	S.G. 比重	In/Outlet 進出口徑 mm	Power 馬力			50Hz			60Hz			重量 kg (參考值)
			Phase 相數	HP	Pole 極數	Curve 曲線	Max.Head 全揚程M	Max.Flow 全流量 L/min	Curve 曲線	Max.Head 全揚程M	Max.Flow 全流量 L/min	
25SK-1/2	1.1	25X25	1ø/3ø	1/2	2	a	12.5	95	A	12.5	95	26
40SK-1	1.1	40X40	3ø	1	2	b	10	310	B	11	300	29
40SK-2	1.1	40X40	3ø	2	2	c	14.5	350	C	17.5	350	32
50SK-3	1.1	50X50	3ø	3	2	d	17	540	D	20	540	56
50SK-5	1.1	50X50	3ø	5	2	e	22	600	E	25	580	72
65SK-7.5	1.1	80X65	3ø	7.5	2	f	22	860	F	23.5	900	116
65SK-10	1.1	80X65	3ø	10	2	g	29	1100	G	31	1050	122
40SP-1	1.4	40X40	3ø	1	2	h	9	280	H	8	260	29
40SP-2	1.4	40X40	3ø	2	2	i	14	320	I	15	325	32
50SP-3	1.4	50X50	3ø	3	2	j	18	500	J	17	500	54
50SP-5	1.4	50X50	3ø	5	2	k	19	580	K	21	540	72
65SP-7.5	1.4	80X65	3ø	7.5	2	l	16	930	L	18	860	116
65SP-10	1.4	80X65	3ø	10	2	m	22	1050	M	21	1000	122
80SP-7.5	1.4	80X80	3ø	7.5	2	o	16	950	O	18	860	116
80SP-10	1.4	80X80	3ø	10	2	p	22	1150	P	21	1000	122
SVT40SK-1/2	1.1	40X40	1ø/3ø	1/2	2	n	9	180	N	9	150	24
SVT40SK-1	1.1	40X40	3ø	1	2	b	10	310	B	10	300	27
SVT40SK-2	1.1	40X40	3ø	2	2	c	14.5	350	C	17.5	350	30
SVT50SK-3	1.1	50X50	3ø	3	2	d	19.5	540	D	20.5	540	50

※規格表1/2HP, 1HP, 2HP, 3HP有鈦金屬材質。(法蘭JIS 5K)



MODEL IDENTIFICATION

型號說明

SV - 40	SL	1	6 - N	S	O	S - N	O	1			
1	2	3	4	5	6	7	8	9	10	11	12
(1) Type機型編號 SV-不鏽鋼316# SVT-鈦金屬	(2) In-Outlet出入口徑 25-1" 40-1-1/2" 50-2" 65-2-1/2" 80-3"	(3) Sp Gravity比重 SL-Low-Rpm 4p 低轉速4P SA-Special Impellar 特製葉輪	(4) Power馬力 1/2:1/2HP 1:1HP 2:2HP 3:3HP 5:5HP 7:7.5 HP 10:10HP	(5) Frequency頻率 5-50Hz 6-60Hz	(6) O-Rings O環 N-NBR. E-EPDM. V-VITON. T-TEFLON. H-HV.高氟橡膠	(7) Pump Material泵體材質 S-SUS316. T-Titanium.	(8) Internal Installation I-槽內安裝 External Installation O-槽外安裝	(9) Model規格 S-Special/特殊規格 A-Special Seal/特製軸封 N-Standard/標準規格	(10) Over-Flow H-Valve/Hose 加裝溢流排氣軟管 O-Plug Screw/堵住螺絲 N-Standard/標準機型	(11) O-Round Motor Plate 電機圓托 M-Square Motor Plate 電機方托 P-SP pump motor SP型泵電機	(12) 出入口規格Flange In/outlet options 1-法蘭Flange 10K 5-法蘭Flange 5K

SPECIFICATIONS PERFORMANCE CHART

規格/性能曲線

※ 重量/性能以實物為準

Weight / Performance Is For Reference Only Actual Product May Vary

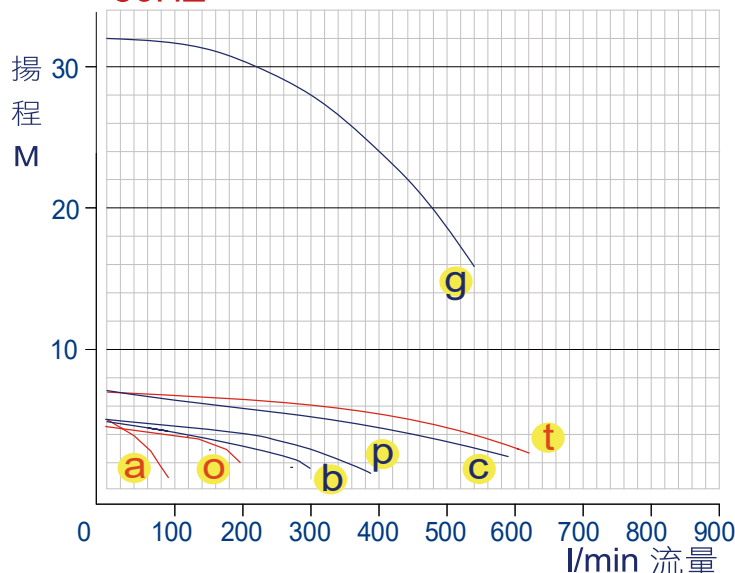
(測試流體：水 比重1.0)

Test Fluid : Water Sp.Gravity 1.0

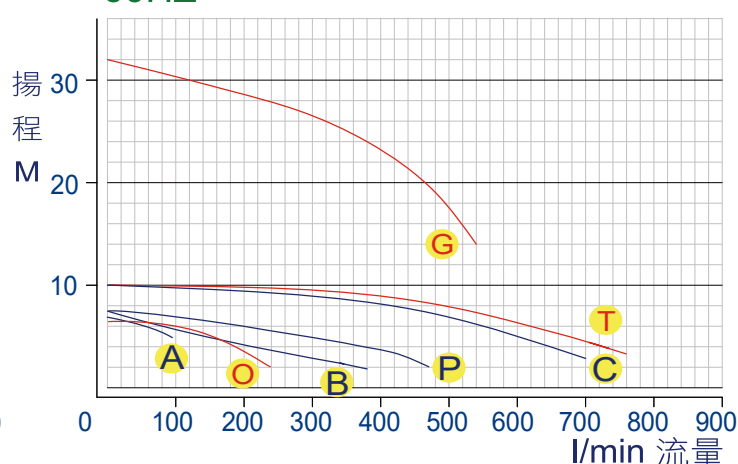
Model 規格	S.G. 比重	In/Outlet 進出口徑 mm	Power 馬力			50Hz			60Hz			重量 kg (參考值)
			Phase 相 數	HP	Pole 極 數	Curve 曲 線	Max.Head 全揚程M	Max.Flow 全流量 L/min	Curve 曲 線	Max.Head 全揚程M	Max.Flow 全流量 L/min	
25SL-1/2	1.1	25X25	1ø/3ø	1/2	4	a	5	90	A	7	105	26
40SL-1/2	1.4	40X40	3ø	1/2	4	o	4.5	195	O	6.5	240	29
40SL-1	1.4	40X40	3ø	1	4	b	5	300	B	7.5	380	31
50SL-1	1.4	50X50	3ø	1	4	p	5	390	P	7.5	470	38
50SA-5	1.4	50X50	3ø	5	2	g	32	540	G	32	540	80
65SL-2	1.4	80X65	3ø	2	4	c	7	590	C	10	720	47
80SL-2	1.4	80X80	3ø	2	4	t	7	620	T	10	760	50

※規格表1/2HP, 1HP有鈦金屬材質。(法蘭JIS 5K)

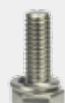
50HZ



60HZ



1 马达 Motor  FC/Alu	2 轴心键 Shaft Pin  SUS/TI	4 主体 Body  1/2~2 HP 3~10 HP SUS/TI	5 间格环 Spacer Ring  SUS/TI
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5A 叶轮固定垫片 Impeller Washer  1/2~2 HP 3~10 HP SUS/TI	5B 叶轮螺丝 Impeller Screw  SUS/TI	5C 叶轮螺帽 Impeller Nut  SUS/TI	6 叶轮 Impeller  SUS/TI
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6A 背叶止付螺丝 Rear Impeller Screw  SUS/TI	6B 背叶体 Rear Impeller  SUS/TI	6C 隔板 Partition  SUS/TI	7 出入口法兰 FPT threaded flange  SUS
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7-1 法兰垫片 Flange Gasket  NBR/VITON/ EPDM/Teflon	7-2 法兰螺丝 Flange Screw  SUS	7-3 法兰螺帽 Flange Nut  SUS	8 前盖体 Front Cover  SUS/TI
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9 主体固定螺丝 Body Screw  SUS/TI	10 前盖螺丝 Front Cover Screw  SUS/TI	10-1 主体垫片O环 Body Gasket O-ring  NBR/VITON/ EPDM/Teflon	11 轴封盖 Dry Seal Cover  1/2~2 HP 3~10 HP FRPP
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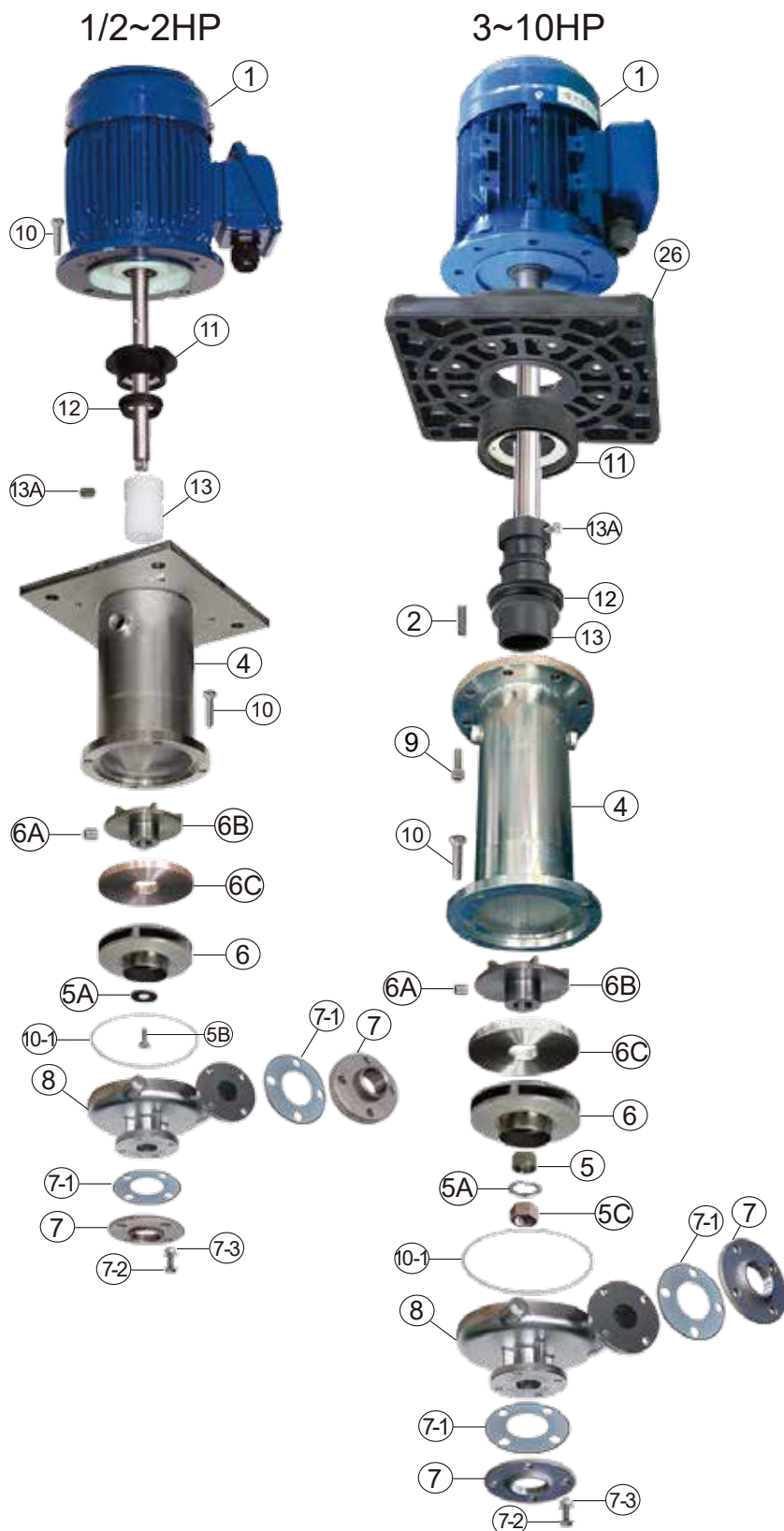
12 干式轴封 Dry Seal  NBR/VITON/ EPDM	13 轴套 Shaft Sleeve  1/2~2 HP 3~10 HP FRPP	13A 轴套螺丝 Shaft Sleeve Screw  1/2~2 HP 3~10 HP SUS/TI	26 接合座 Motor Plate  FRPP
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SV (316#)/ SVT(钛金属-Titanium metal)

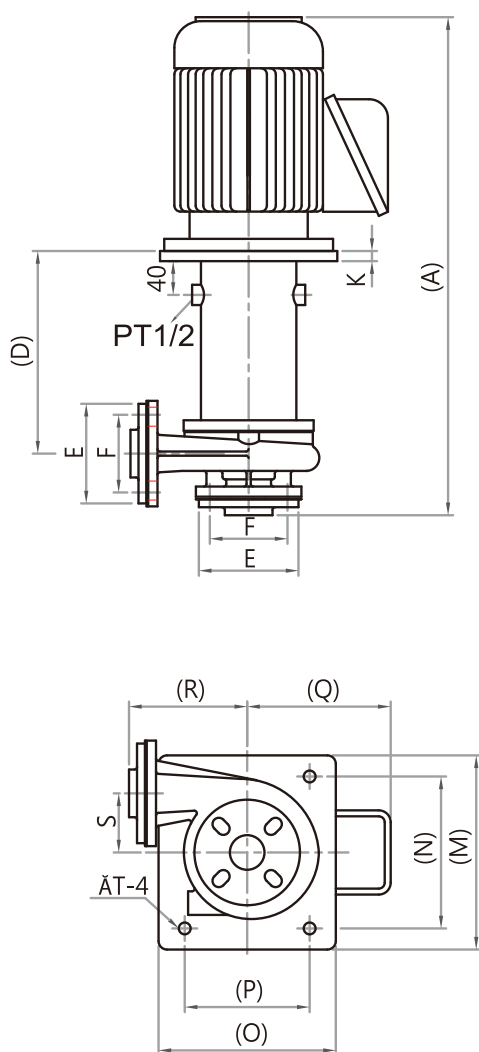


所有本公司三相电源的泵浦都有轴心键,当电源接反的时候,叶轮不会掉落,排除了可能对叶轮,罩壳及干式轴封的损坏。

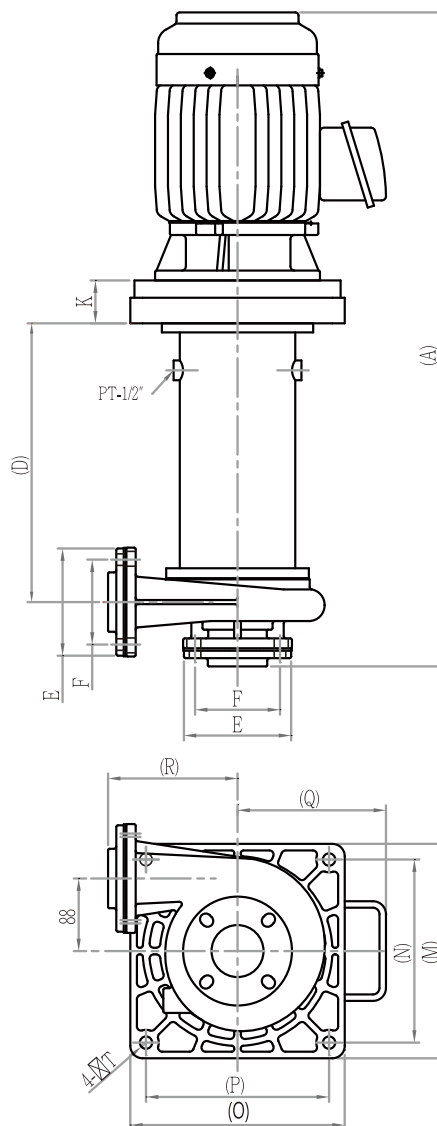
All 3 phase pumps from Super have a keyed impeller shaft that eliminates the possibility of damage to the impeller, housing or vapor seal if the power is reversed. The impeller will not fall off.



SV-1/2~2HP



SV-3~7.5HP



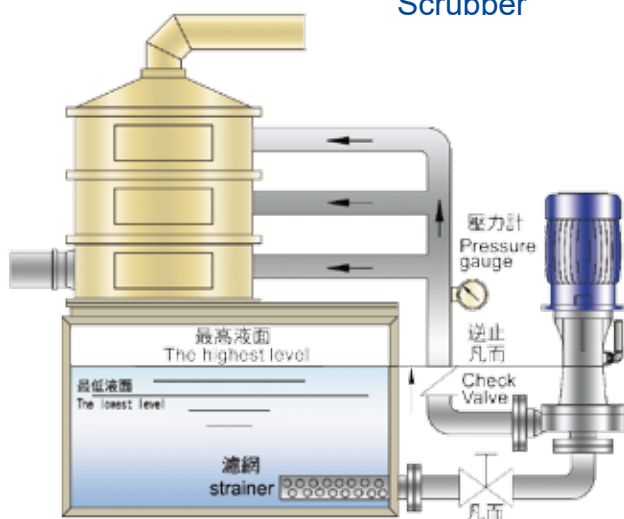
DIMENSION 尺寸表
SV-IN/OUT-Female screw (內牙式)/JIS 5K

Unit (單位):mm

MODEL	(A)	D	E	F	K	M	N	O	P	(Q)	R	S	T
25SK/SP-1/2	542	235	95	70	12	230	180	210	148	170	120	65	14
40SK-1/2	555	240	118	92	12	230	180	210	148	170	140	70	14
40SL-1/2	555	240	118	92	12	230	180	210	148	170	140	70	14
40SK/SP-1	560	240	118	92	12	230	180	210	148	170	140	70	14
40SL-1	560	240	118	92	12	230	118	210	148	170	140	70	14
40SK/SP-2	638	240	118	92	12	230	180	210	148	181	140	70	14
50SL-1	567	242	130	105	12	230	180	210	148	170	157	88	14
50SK/SP-3	796	338	130	105	52	260	222	260	222	200	157	88	15
50SK/SP-5	843	338	130	105	52	260	222	260	222	215	157	88	15
50SA-5	843	338	130	105	52	260	222	260	222	215	157	88	15
65SL-2	684	250	180	145	12	230	180	210	148	181	194	95	14
65SK/SP-7.5	874	343	180	145	52	355	300	355	300	250	194	95	15
65SK/SP-10	929	343	180	145	52	355	300	355	300	250	194	95	15
80SL-2	684	250	180	145	12	230	180	210	148	181	194	95	14
SVT-40SK-1/2	532	240	120	95	12	230	180	210	148	170	119	70	14
SVT-40SK-1/40SK-2	532	240	120	95	12	230	180	210	148	170	119	70	14
SVT-40SK-2	570	240	120	95	12	230	180	210	148	170	119	70	14

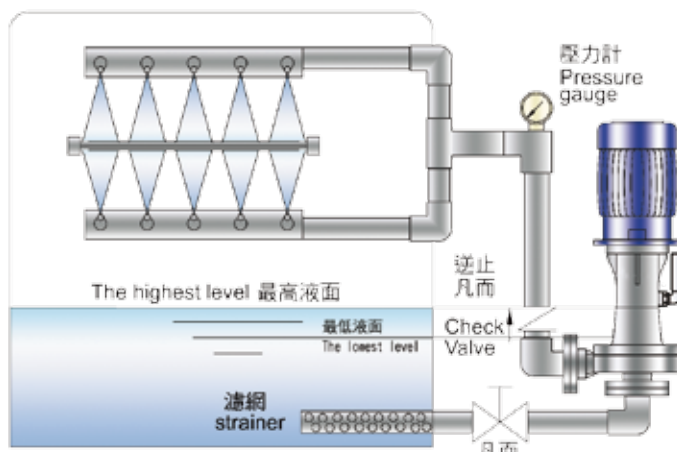
A

廢氣塔
Scrubber



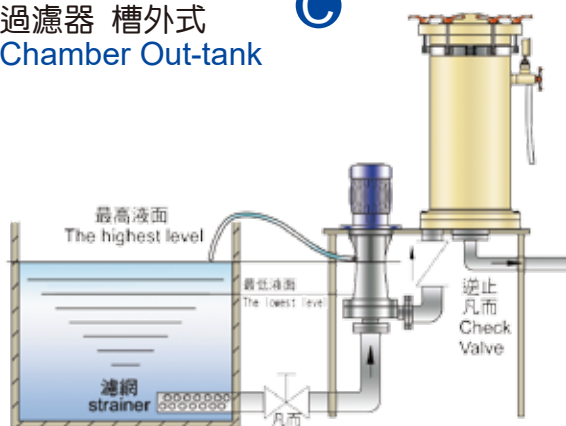
B

PCB 蝕刻
PCB Etching



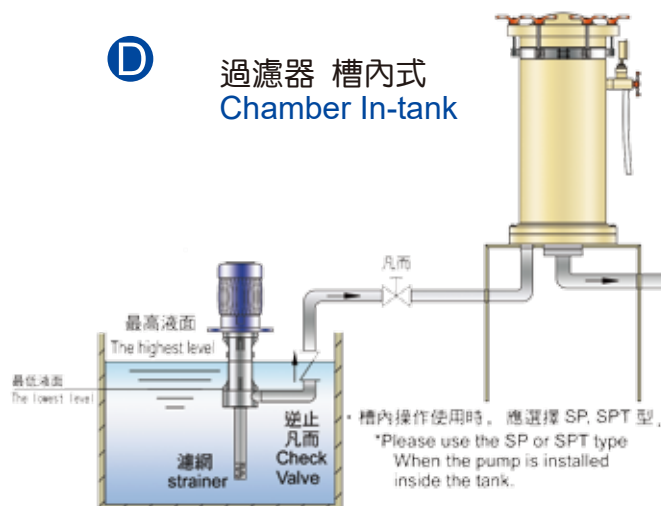
過濾器 槽外式
Chamber Out-tank

C



D

過濾器 槽內式
Chamber In-tank



Cautions:

1. Set a check valve at the outlet of the pump if the outlet pipeline is higher than the pump and may cause back flow. Do not put the check valve higher than the highest liquid level in tank too much.
2. Set a strainer at the end of inlet to keep the pump from being damaged by impurities. (The total mesh area of the strainer should be 5 time the pipe area or more.)
3. Please contact our technician if any special demand required. For example, anti-explosion motor.
4. Motor should be anti-corrosion coated for special corrodent environment.
5. When operating two vertical pumps simultaneously, make sure each pump has its own inlet and outlet without sharing. Failure to follow this instruction can cause pump failure and poor efficiency. In the worst situation, this inlet/outlet sharing can cause permanent damage to the pump.

注意事項:

1. 出口配管高度，如有高過馬達以上或有逆壓之情形時，請在泵浦出口處裝置逆止閥，裝置位置請勿超過最高液面線太高。
2. 入口處為安全起見，最好裝置過濾網以免吸入雜物損壞泵浦。(濾網孔面積約直徑5倍以上)
3. 在特殊環境下使用時，如需安裝防爆或耐壓防爆之馬達時，請與本公司技術人員商談。
4. 在含有化學氣體之環境下使用時，必需選擇特殊處理有防蝕漆之馬達。
5. 兩台立式泵浦同時運轉，不能共用一支出入口管路，會影響泵浦壽命及性能，嚴重會造成損壞。



逆止凡而
PP / PVC
Check Valve



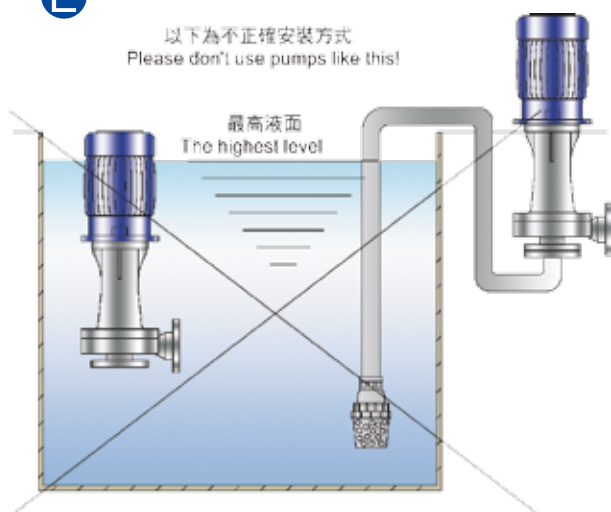
入口濾網
PP / PVC
Inlet Stainer

入口三通濾網
PP / PVC Tee Inlet Stainer

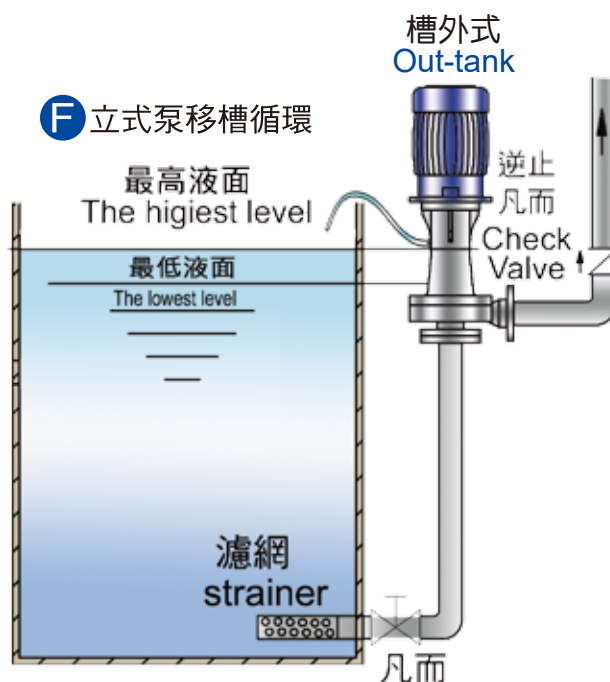


E

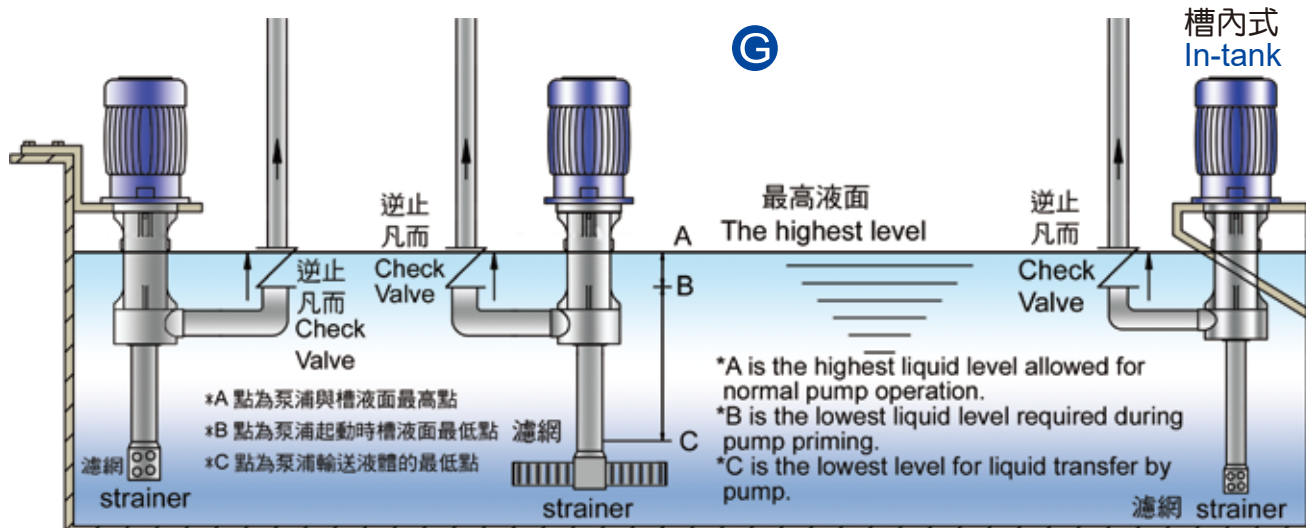
以下為不正確安裝方式
Please don't use pumps like this!



F 立式泵移槽循環



G



※ 濾網孔面積須大於管徑5倍以上

配件 Accessories



PVC / EPDM / VITON
擺動式逆止閥
Swing check valve



SP / SPT 出口彎頭
PP / CPVC / CFRPP / PVDF
SP / SPT Elbow Union



PVC / PP 底閥
PVC / PP Foot Valve



TD / 出口逆止彎頭
PP / PVC



SPT / TD 機型

FRP 座 / FRP Base
for SPT / TD series.

TD1~5HP
長540mm寬340mm高670mm
TD7.5~10HP
長550mm寬440mm高730mm



總公司

昇展實業股份有限公司

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Fax: 886-6-2534226, 2420509

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Hang, Yung Kang, Tainan, Taiwan,

Tel: 886-6-2534546, 2541601

Fax: 886-6-2534226, 2420509

E-mail: super@superpump.tw

Website: www.superpump.tw

www.chemicalfilter.com.cn



上海區 塑寶環保機械

江蘇省太倉市沙溪鎮岳王區

鎮北路16號 215400

Tel: 0512-53303388, 53303398

Fax: 0512-53303588

E-mail: taichang@superpump.cn

Website: www.superpump.cn

廣東區 升展機械

廣東省廣州市增城區新塘鎮

民營西二路9號

(遠航科技園B1座二樓)

Tel: 020-82691835, 82602341~3

Fax: 020-82708706

E-mail: singtown@superpump.cn

Website: www.chemicalpump.cn

訂購時請提供下列資料:

1. 藥液條件: 名稱_____/溫度_____
濃度_____/比重_____/黏度_____
2. 需求流量: _____ L/min
3. 需求揚程: _____ M
4. 馬達: 電壓/頻率

While placing your order...

Please kindly provide us the following information.

1. Chemical: Name_____/Concentration_____
Temperature_____/Specific Gravity_____
Viscosity_____
2. Capacity needed: _____ L/min
3. Head needed: _____ M
4. Power: Voltage/Frequency