



SUPER
塑寶牌

塑寶®

可空轉

SPT型立式耐酸鹼泵浦

WET/DRY RUNNING VERTICAL PUMPS



SUPER PUMPS

SPT

Single impeller、單葉輪、Single vapor seal、單軸封

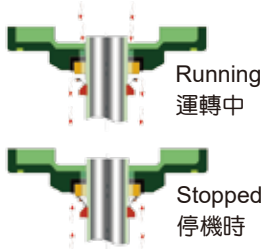
SPT 泵是可靠的泵，馬達全部的馬力經由軸心完全轉化為抽送的動力，此型泵浦廣泛地應用於從化學藥水循環到加工模組等各種用途，如果泵浦空轉時，沒有軸封或襯套會損壞，直立型的設計依結構材料的不同，可用於最高流體溫度75°C(167°F)到85°C(185°F)，而且可處理腐蝕力最強的各種溶液，SPT 泵是設計來做槽內或加工模組之用，但一定要依安裝高度之規定來安裝，除了1/6~1/8HP之外，所有其他規格均有一個通氣槽在泵浦座上，以及一個乾式軸封，因此防止酸氣滲透到馬達軸泵。

The SPT Series pumps are dependable pumps. 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. There are no seals or bushings that can be damaged if the pumps run dry. The vertical design has a maximum fluid temperature of 167°F(75°C) to 185°F(85°C), depending on the materials of construction, and can handle the most abrasive solutions. The SPT series pumps are designed to run inside of the tank or process module. Except SP1/8~1/6HP, all the rest models have a slotted air gap in the pump base and a dry vapor seal, thereby preventing chemicals penetrating to the motor bearings.



所有本公司三相電源的泵浦都有軸心鍵，當電源接反的時候，葉輪不會掉落，排除了可能對葉輪，罩殼及乾式軸封的損壞。

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.



當泵浦運轉中，單乾式軸封因離心力而打開，如此會排除磨擦及密封液體，當泵浦停機時，乾式軸封閉合歸位，以防止酸氣或液體接觸到馬達或軸承。The unique vapor seal is opened by centrifugal force when pump is operating. This eliminates friction and seal wear. The seal closes back up when the pump shuts down to prevent vapor or liquid reaching the motor face or bearings.



A 此溢流孔泵在槽內設計，使用時應不可堵住這個排放孔，使停車反壓時藥水能從此孔排放液體。

For in-tank applications, the vent hole must be open for back-flow to run through when pump shut down.



此配件可安裝於泵出口端配管拆解容易，依藥水不同有 CPVC、FRPP、CFRPP、PVDF。

This elbow-union can be connected to the outlet for easy plumbing. CPVC,FRPP,CFRPP,PVDF materials are available.

MODEL IDENTIFICATION 型號說明

SPT - 40 SK 2 6 - V F I N - F O
1 2 3 4 5 6 7 8 9 10 11

- | | | | |
|---|---|---|---|
| (1) SPT-In Tank
一般槽內式
SPS-Teflon Seal
特製Teflon軸封 | (4) Power馬力
2-2 HP / 3-3 HP
5-5 HP / 7-7.5 HP
10-10 HP | (8) Internal Installation
I-槽內安裝
External Installation
O-槽外安裝 | (10) F-Inlet With Strainer
吸入口加濾網
N-Inlet Without Strainer
吸入口不裝濾網 |
| (2) In/Outlet Dia.
出口口徑
40-1-1/2" 50-2"
65-2-1/2" | (5) Frequency頻率
5:50Hz 6:60Hz | (9) Model規格
S-Special特殊規格
N-Standard標準規格
P-Custom Plate
特殊外加板
H-HV高氟橡膠
(部分規格才有) | (11) O-Round Motor Plate
電機圓托
M-Square Motor Plate
電機方托 |
| (3) Sp Gravity比重
SK-1.1 SP-1.4
SL-Low Rpm 4p
低轉速4P | (6) O-Rings O環
V-VITON. N-NBR.
E-EPDM. H-HV | | |
| | (7) Pump Material
泵體材質
F-FRPP K-PVDF
C-CPVC P-CFRPP | | |

- 採用FRPP, CPVC, CFRPP, PVDF 各種塑鋼材料射出成型可抵抗大部份的化學性，耐酸、耐鹼。
- 適合各種酸鹼液循環，冷卻，噴洗設備，廢氣塔使用。
- 可空運轉使用，絕不因空轉而損壞。
- 有乾式軸封設計，可防止酸氣進入馬達軸承。
- 配合本公司獨特設計之由任接頭，可方便長久維修保養。
- 主體部份採用C型扣環密封，入口主體體積較小，適合槽內式設計使用。(請參閱操作說明書之安裝規定)
- 槽內安裝在泵體會多四個溢流孔，增加溢流量。
※電機前托有方形及圓形兩種。
※台專新型第134634號專利

- Molded parts are out of FRPP,CPVC,CFRPP, PVDF applicable for various chemicals.
- Suitable for chemical circulation, cooling,spraying and scrubber applications.
- Can run-dry without damage.
- Single vapor seal prevents corrosive vapor from entering the bearing.
- Combined with our unique elbow- union,easy to maintain.
- Snap ring secures the inlet and reduces the pump head for in tank applications. (Refer to the examples in manual.)
- 4 extra holes on pump head for more overflow of in-tank applications.
※Optional square or round motor flange.(Depending on the motor inventory.)
※Taiwan patent No.134634

SPECIFICATIONS PERFORMANCE CHART 規格/性能曲線

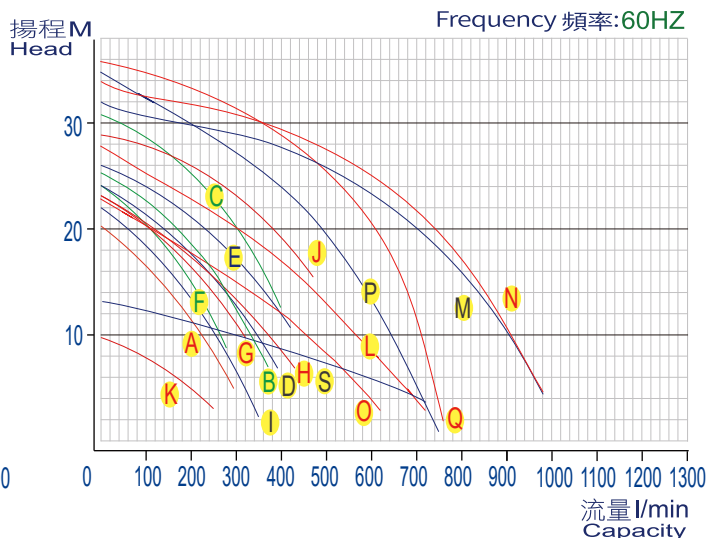
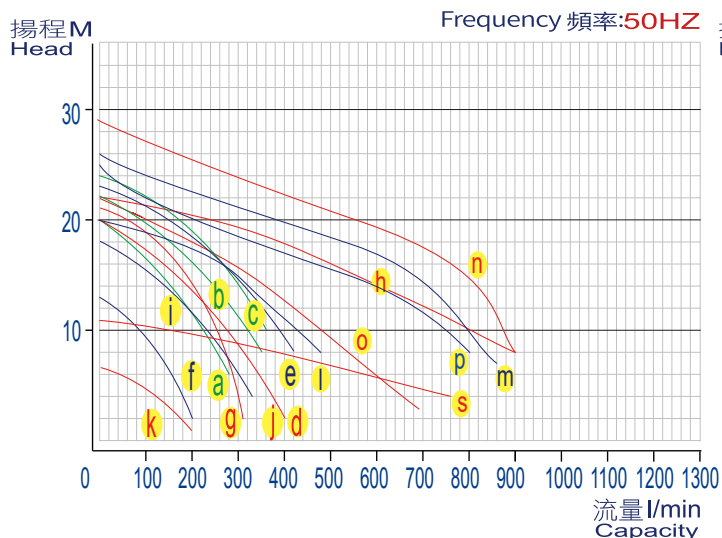
※ 重量/性能以實物為準 入口:內牙/出口:外牙

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 型 式	SP.G 比 重	In/Outlet 進出口徑 (mm)	Power馬力			50Hz			60Hz			Weight 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	
40SK-2	1.1	50X40	3ø	2	2	a	20	270	A	24	280	40
40SK-3	1.1	50X40	3ø	3	2	b	22	350	B	25.5	370	43
40SK-5	1.1	50X40	3ø	5	2	c	24	360	C	31	400	60
50SK-3	1.1	50X50	3ø	3	2	d	20	400	D	24	390	44
50SK-5	1.1	50X50	3ø	5	2	e	22	420	E	26	420	61
65SK-5	1.1	80x65	3ø	5	2	l	20	480	L	28	720	61
65SK-7.5	1.1	80x65	3ø	7.5	2	m	26	850	M	32	980	95
65SK-10	1.1	80x65	3ø	10	2	n	29	900	N	34	980	105
40SP-2	1.4	50X40	3ø	2	2	f	13	200	F	20	290	40
40SP-3	1.4	50X40	3ø	3	2	g	21	310	G	23	320	43
40SP-5	1.4	50X40	3ø	5	2	h	23	370	H	23	430	60
50SP-3	1.4	50X50	3ø	3	2	i	18	330	I	22	350	44
50SP-5	1.4	50X50	3ø	5	2	j	20	400	J	29	480	61
65SP-5	1.4	80x65	3ø	5	2	o	22	690	O	23	620	61
65SP-7.5	1.4	80x65	3ø	7.5	2	p	25	800	P	35	750	95
65SP-10	1.4	80x65	3ø	10	2	m	26	850	Q	36	760	105
50SL-1	1.4	50X50	3ø	1	4	k	6.5	200	K	9	250	32
65SL-2	1.4	80x65	3ø	2	4	s	11	760	S	12	720	45



SPT

Single impeller 單葉輪
Single vapor seal 單軸封

CONSTRUCTION

零件圖表

1	3	4	5	6
馬達 Motor	軸封蓋 Dry Seal Cover	軸封蓋O環 Dry Seal Cover O-ring	乾式軸封 Dry Seal	軸套螺絲 Shaft Sleeve Screw
FC/Alu	FRPP/CFRPP CPVC/PVDF	NBR/VITON	NBR/VITON	SUS

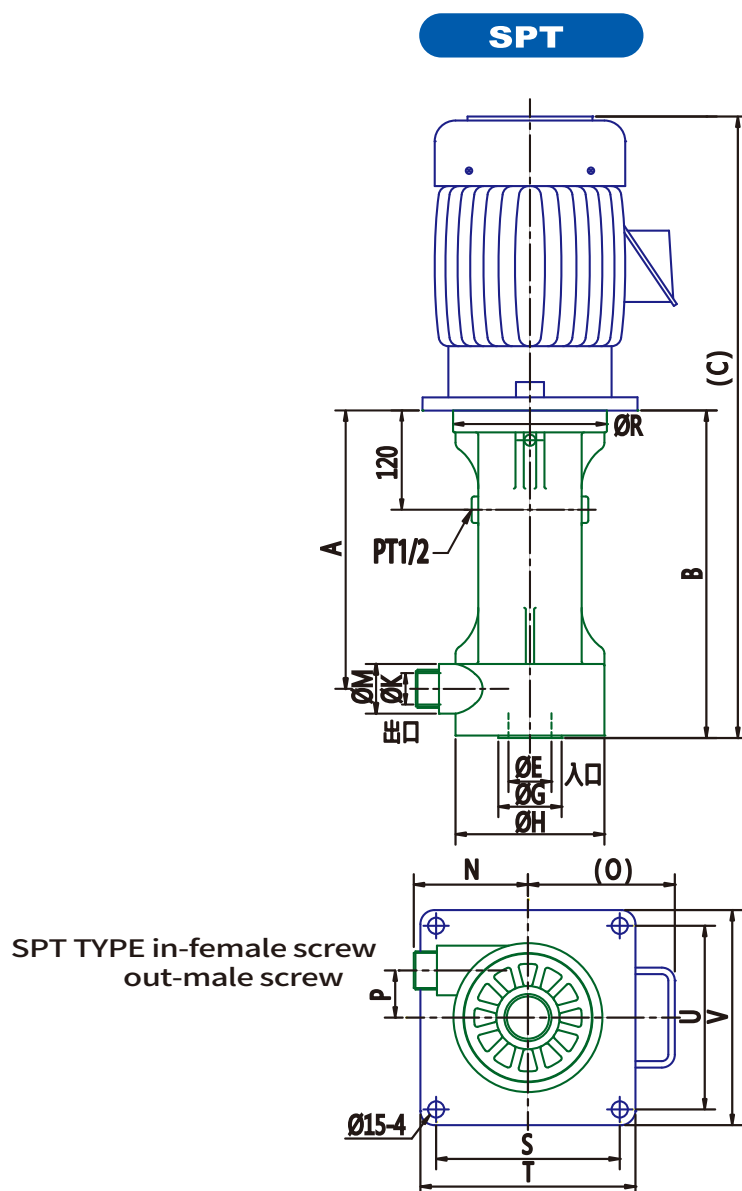
7	8	9	13	14
軸套 Shaft Sleeve	主體 Body	主體固定螺絲 Body Bolt	葉輪O環 Impeller O-ring	葉輪 Impeller
FRPP/CFRPP CPVC/PVDF	FRPP/CFRPP CPVC/PVDF	SUS/Titanium	NBR/VITON	FRPP/CFRPP CPVC/PVDF

15	16	17	18	21
葉輪螺帽垫片 Impeller Nut Washer	葉輪螺帽 Impeller Nut	前蓋O環 Front Cover O-ring	前蓋 Front Cover	C型扣環 C-clip
NBR/VITON/ EPDM	FRPP/CFRPP CPVC/PVDF	NBR/VITON/ EPDM	FRPP/CFRPP CPVC/PVDF	FRPP/CFRPP CPVC/PVDF

21-1	22	23	30
C扣固定螺絲 C-Clip Screw	溢流逆止甩圈 Over Flow Packing	入口濾網 Inlet Strainer	接合座 Motor Plate
FRPP/PVDF	VT/EPT	PP/PVC	FRPP



DIMENSIONS 外觀尺寸



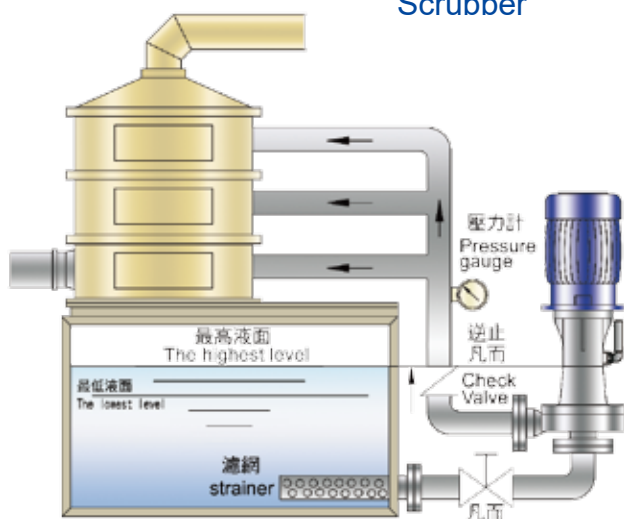
DIMENSION 尺寸表

Unit (單位):mm

MODEL	A	B	(C)	E	G	H	K	M	N	(O)	P	R	S	T	U	V
40SK/SP-2	339	395	735	50	76	180	40	60	140	192	60	186	222	260	222	260
40SK/SP-3	339	395	735	50	76	180	40	60	140	192	60	186	222	260	222	260
40SK/SP-5	339	395	775	50	76	180	40	60	140	212	60	186	222	260	222	260
50SK/SP-3	339	395	735	50	76	180	50	60	140	192	60	186	222	260	222	260
50SK/SP-5	339	395	775	50	76	180	50	60	140	212	60	186	222	260	222	260
50SL-1	339	395	690	50	76	180	50	60	140	167	60	186	222	260	222	260
65SK/SP-5	360	494	971	80	110	225	65	90	160	250	70	186	300	355	300	355
65SK/SP-7.5	360	494	971	80	110	225	65	90	160	250	70	186	300	355	300	355
65SK/SP-10	360	494	971	80	110	225	65	90	160	250	70	186	300	355	300	355
65SL-2	360	494	833	80	110	225	65	90	160	250	70	186	300	355	300	355

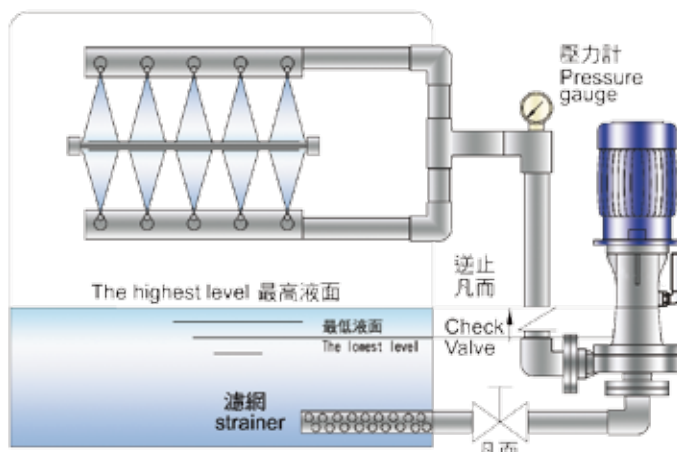
A

廢氣塔
Scrubber



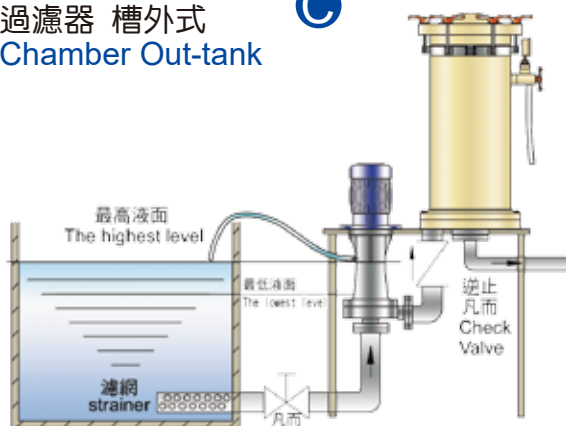
B

PCB 蝕刻
PCB Etching



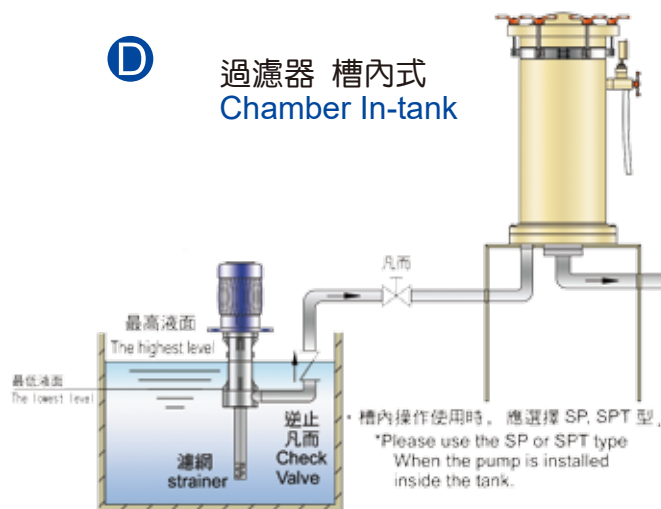
過濾器 槽外式
Chamber Out-tank

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



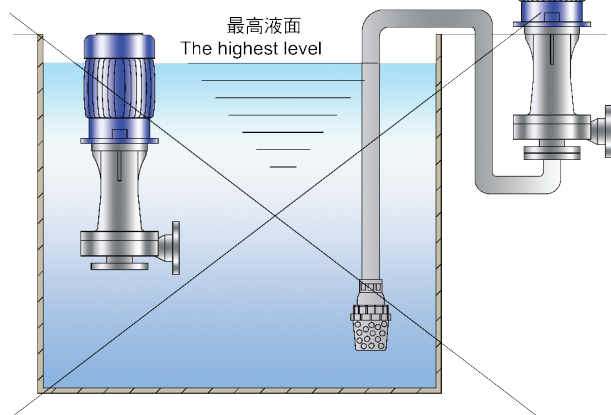
入口濾網
PP / PVC
Inlet Stainer

入口三通濾網
PP / PVC Tee Inlet Stainer

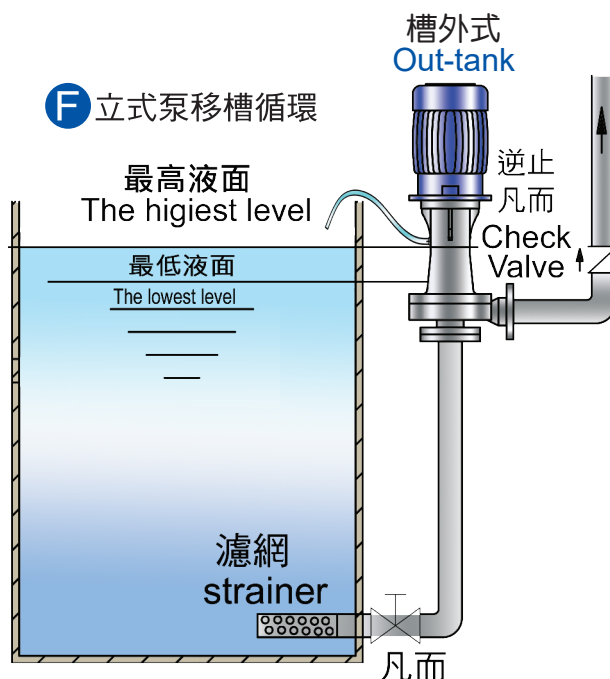


E

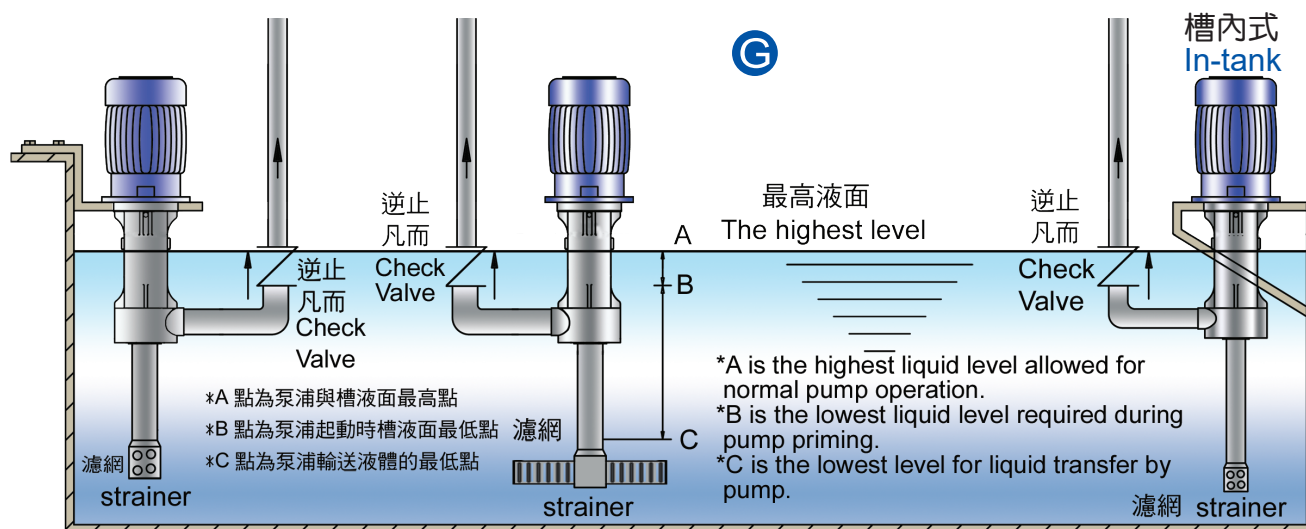
以下為不正確安裝方式
Please don't use pumps like this!



F 立式泵移槽循環

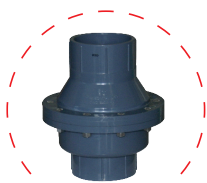


G

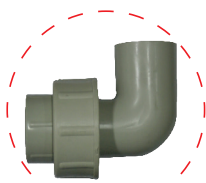


※ 濾網孔面積須大於管徑5倍以上

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



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www.chemicalfilter.com.cn



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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