



WET/DRY RUNNING VERTICAL PUMPS
可空轉立式耐酸鹼泵浦

TD 系列產品

直立式綜合目錄

SP / SPT / TD / STD / SWP / SV **SERIES**



SUPER PUMPS

VERTICAL PUMPS

SP&SPT

- 採用FRPP,CPVC,CFRPP,PVDF各種塑料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，絕不因空運轉而損壞。
- 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。
- SP/SPT型1/4~5HP機種有乾式軸封設計，馬達前後蓋體均有油封密封來保護軸承。
- 馬達前後托架有油封甩圈設計，防止酸氣進入。



- 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.
- Combined with our unique elbow-union,easy to maintain.
- Snap ring secures the inlet and reduces the pump head for in tank applications.
- Single vapor seal on SP/SPT1/4~5HP models prevents corrosive vapors from entering the bearing.
- Both flanges of motor have oil seals swing ring to prevent acid vapor from entering the motor.

TD 50 SK 2 6 V F

(1)	(2)	(3)	(4)	(5)	(6)	(7)
機型編號	出口口徑	比重	馬力	頻率	O環材質	泵體材質
Type	Oulet	(極數)	Power(HP)	Frequency	O-ring	Material
SP	Dimension	Specific	1/8, 1/6	5-50Hz	V-VITON	F-FRPP
SPT	20mm,3/4"	Gravity	1/4, 1/3	6-60Hz	E-EPDM	P-CFRPP(碳纖)
SV	25mm,1"	SK-1.0	1/2, 1		N-NBR	C-CPVC
SWP	32mm,1-1/4"	SP-1.3	2, 3		T-TEFLON	K-PVDF
TD	40mm,1-1/2"	SL-4極電機	5, 7.5			S-SUS316
STD	50mm,2"		10			T-TI(鈦)
	65mm,2-1/2"		15			
	80mm,3"					
	100mm,4"					

SV

- 材質採用鈦，不鏽鋼316精密鑄造成型，無砂孔問題，葉輪效率高。
- 適合各種酸鹼液，微酸液，循環使用，耐高溫。
- 無軸封設計，絕不因空運轉而損壞，設計有防止酸氣進入軸承之密封圈。
- 葉輪經動力平衡校正，低噪音，振動率低。
- 泵浦體積小，適合槽內槽外設計使用。
- 馬達前後托架有油封設計，防止酸氣進入。
- 革命性的雙葉輪設計！
台灣專利新型第212811號
大陸專利第ZL02 2 94910.0號
- 另有鈦金屬精密鑄造成型，可耐特殊之化學藥液，規格有1/2~2HP。



SV-T鈦金屬

- Cast 316 Titanium stainless steel pump, fine surface, high Performance impeller.
- Suitable for weak acid and alkaline circulation, high temperature applications.
- Sealless, run dry without damage, shaft seal prevents corrosive vapors from entering the bearing.
- Balance calibrated impeller, low noise, low vibration.
- Impact size, ideal for in tank applications.
- Break-through double impellers
- Both flanges of motor have oil seals to prevent acid vapor from entering the motor.
- Besides,the SVT cast in titanium metal pump, suitable for special chemical liquid.The specification is 1~2HP.

- 輕巧的外型及安裝板的設計最適合於槽內使用，且配管及保養均很方便。
 - 雙乾式軸封設計，有效阻隔酸氣進入馬達損壞軸承。
 - 安裝板下的O環可防止槽內蒸氣逸散汙染環境。
 - 採用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。
 - SWD立式泵，有雙葉輪設計，不溢流不打氣泡。
 - 馬達前後托架有油封設計，防止酸氣進入。
- 台灣專利新式樣第D102019號
大陸專利第ZL 02 2 35916.8號

SWP



- Impact size and mounting plate structure make it the most ideal for in-tank applications. Easy to mount and maintain.
- Double vapor seals stops corrosive vapor to reach the motor bearing perfectly.
- O-ring below the mounting plate prevents the corrosive vapor to escape and pollute the environment.
- Various materials are available for various chemicals.
- Suitable for chemical circulation, cooling, spraying and scrubber applications.
- SWD vertical pump utilize a double-impeller design which prevents both overflow and air bubbles.
- Both flanges of motor have oil seals to prevent acid vapor from entering the motor.

- 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，蝕刻機，廢水處理等使用。
- 可空運轉使用，絕不因空運轉而損壞。
- 有乾式軸封設計，可保護馬達防止酸氣進入損壞培林。
- 適合無電解鍍化學銅及各種特殊電鍍液之循環輸送。
- 可配合過濾器連接使用。
- 馬達前後托架有油封設計，防止酸氣進入。

**台灣專利新型第134643
，20618，222273，
211434號專利

大陸專利第ZL 01 2 23367.6號
第ZL 02 2 57073.X號

TD&STD



- Molded parts are out of FRPP, CPVC, CFRPP, PVDF applicable for various chemicals.
- Suitable for chemical circulation, cooling, spraying, PCB etching, waste water and scrubber applications.
- Can run-dry without damage.
- Single vapor seal prevents corrosive vapor from entering the bearing.
- Ideal for use in electroless nickel or copper plating and various solution circulation applications..
- Ideal for use in combination with filter.
- Both flanges of motor have oil seals to prevent acid vapor from entering the motor.

SP/SPT

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

The SP/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 SP/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.

SP/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，SP/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。

SP/SPT Series Pumps:

- 1 year warranty.
- CPVC, CFRPP, PVDF or polypropylene construction.
- Max. fluid temperature:
polypropylene/CPVC/CFRPP 167°F (75°C) PVDF 185°F (85°C).
- In-tank use only.
- High efficiency-low operating cost, leakfree 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.
- Vertical pumps can run dry without damage to vapor seal.
- Thick reinforced ribbing in all molded parts.
- Simplicity of design makes these pumps easy to service and operate.
- Keyed impeller prevent damage if pumps run in reverse on all three phase motors.
- SP/SPT--Non-metallic solution contact.
- SP/SPT--Motor vapor seal.
- SP--120V cord with ground.
- SP--Vented pump base on 1/4 to 2 HP.
- SPT--Vented pump base.

SP/SPT 泵

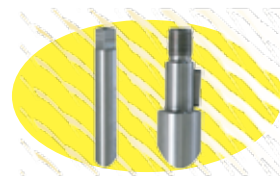
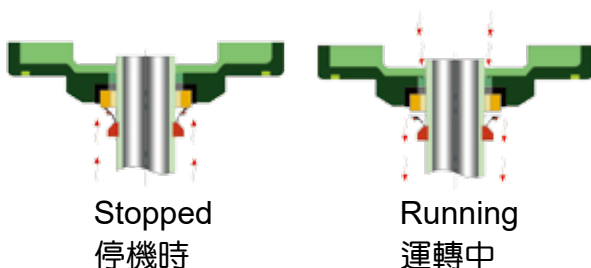
- 1年保固
- CPVC, CFRPP, PVDF 或PP泵體結構
- 最高流體溫度:
FRPP/CPVC/CFRPP 75°C (167°F) PVDF 85°C (185°F)
- 槽內式安裝
- 高效率，低操作成本，不洩漏，易於維護
- 耐腐蝕性優良
- 泵頭中沒有軸封或軸承，不會磨耗
- 持續重負載的TEFC馬達，在馬達罩殼中有加大規格的軸承
- 立式泵空運轉不會損壞乾式軸封
- 所有射出成型零件有厚的補強肋
- 簡單化的設計使這種泵易於使用及操作
- 如果三相的馬達逆轉，有鍵槽的葉輪可避免損壞
- SP/SPT--藥水不會接觸金屬材質
- SP/SPT--馬達乾式軸封
- SP--120V絕緣電線附接地
- SP--1/4~2HP泵浦座上有排氣槽
- SPT--泵浦座上有通氣槽

Typical applications 主要用途:

- Chemical or water recirculation
化學藥水或清水循環
- Fume scrubbers/waste treatment
廢氣塔/廢水處理
- PCB Plating solutions PCB電鍍
- Wet processing 淋濕處理
- Cleaning solutions 淨化溶液
- Deliver acids 各種酸液輸送

Elbow union
出口由任彎頭





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.

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.

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。

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。



Vent slots align (vapor seal cover) with the seal above to safely disperse contaminants away from the shaft and motor bearings. 排氣槽搭配頂部的乾式軸封，安全地將有酸鹼氣體散掉，而不會接觸軸心及馬達軸承。



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



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

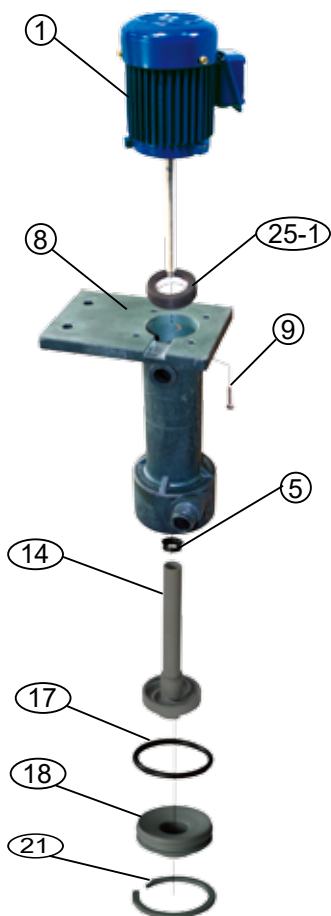
SP Type



SP

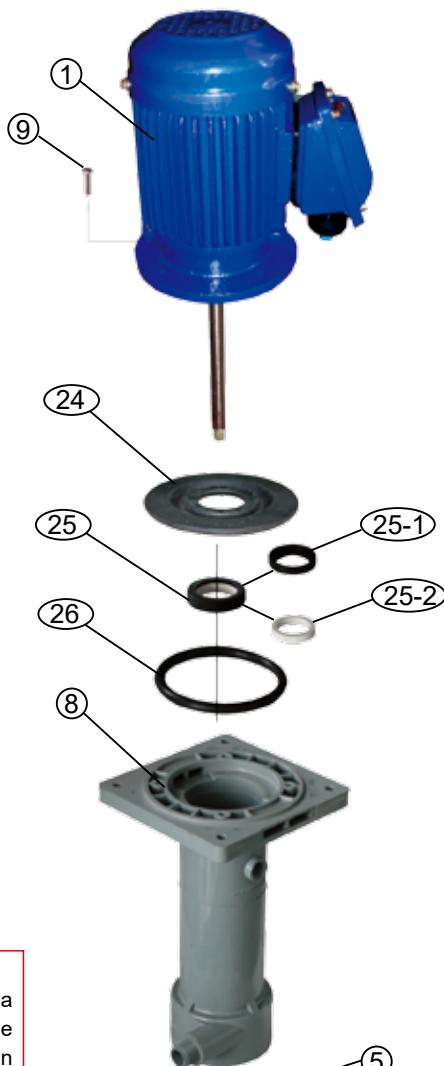
Single impeller、單葉輪、Single vapor seal、單軸封

SP-1/8-1/6HP



part 14 Impeller 葉輪
Molded impeller with a full length shaft sleeve that eliminates solution contact.

SP-1/4-1/3HP



part 5 Dry seal 軸封
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.

SP-1/2-2HP



part 25 Ceramic seal
陶瓷固定環
Ceramic seal surface for the vapor seal.



出口彎頭/Elbow union
SP/SPT 出口配件

SPT

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

SP - 40 SK 1 6 V F I S H O
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)

(1) SP-直立式耐酸鹼泵浦
SPT-直立式耐酸鹼泵浦

(2) 出口口徑
20 - 3/4" 25 - 1"
40 - 1-1/2" 50 - 2"
65 - 2-1/2" 80 - 3"

(3) 比重 SK - 1.1 SP - 1.4
SL - 低轉速4P

(4) 馬力 1/8 - 1/8 HP

1/6 - 1/6 HP 1/2 - 1/2 HP
1/4 - 1/4 HP 1-1 HP
1/3 - 1/3 HP 2-2 HP
3-3HP 5-5HP
7-7.5HP 10-10HP

(5) 頻率 (6) O環 V - VITON
5 : 50Hz E - EPDM
6 : 60Hz N - NBR

(7) 泵體材質

F - FRPP K - PVDF
C - CPVC P - CFRPP

(8) I - 槽內安裝

O - 槽外安裝

(9) S - 特殊規格

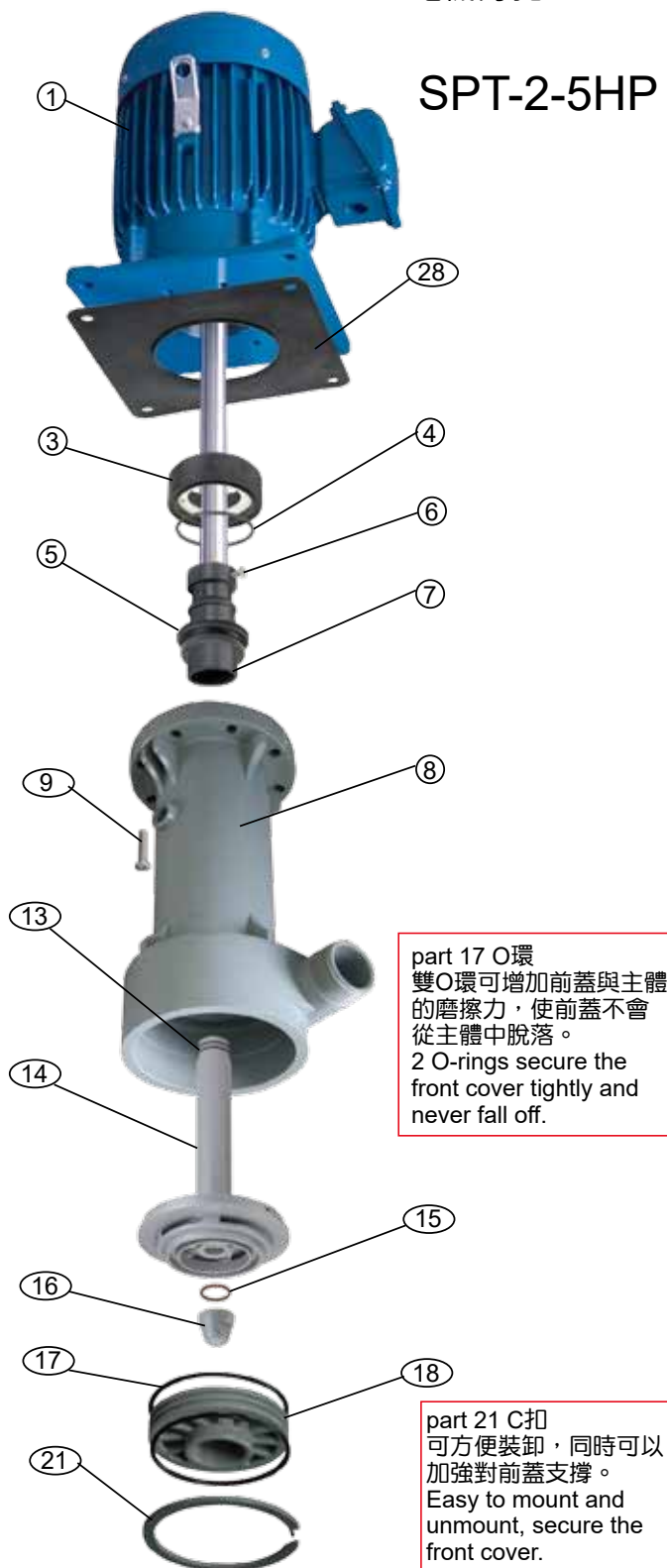
N - 標準機型

(10) H - 加溢流排氣

(11) O - 電機圓托
M - 電機方托

SP/SPT 零件代號

No.	Description 品名	Material 材質
1	Motor 馬達	FC
2	Shaft Pin 葉輪鍵	SUS
3	Dry Seal Cover 軸封蓋	FRPP/CFRPP CPVC/PVDF
4	Dry Seal Cover O-ring 軸封蓋O環	NBR/VITON
5	Dry Seal 乾式軸封	NBR/VITON
6	Shaft Sleeve Screw 軸套螺絲	SUS
7	Shaft Sleeve 軸套	FRPP/CFRPP CPVC/PVDF
8	Body 主體	FRPP/CFRPP CPVC/PVDF
9	Body Bolt 主體固定螺絲	SUS/Titanium
13	Impeller O-ring 葉輪O環	NBR/VITON
14	Impeller 葉輪	FRPP/CFRPP CPVC/PVDF
15	Impeller Nut O-ring 葉輪螺帽O環	NBR/VITON
16	Impeller Nut 葉輪螺帽	FRPP/CFRPP CPVC/PVDF
17	Front Cover O-ring 前蓋O環	NBR/VITON/ EPDM
18	Front Cover 前蓋	FRPP/CFRPP CPVC/PVDF
21	C-clip C型扣環	FRPP/CFRPP CPVC/PVDF
24	Dry Seal Cover 軸封蓋	FRPP/PVDF
25	Ceramic Stationary Ring 陶瓷固定環	Ceramic/NBR
25-1	Ceramic Gasket 陶瓷墊片	NBR
25-2	Ceramic 陶瓷	Ceramic
26	Dry Seal Cover O-ring 軸封蓋O環	NBR/VITON/ EPDM
27-1	Impeller Screw O-ring 葉輪固定螺絲O環	NBR/VITON/ EPDM
27-2	Impeller Screw 葉輪固定螺絲	PVDF
28	Motor Front Cover Gasket 馬達前蓋墊片	NBR



SP

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

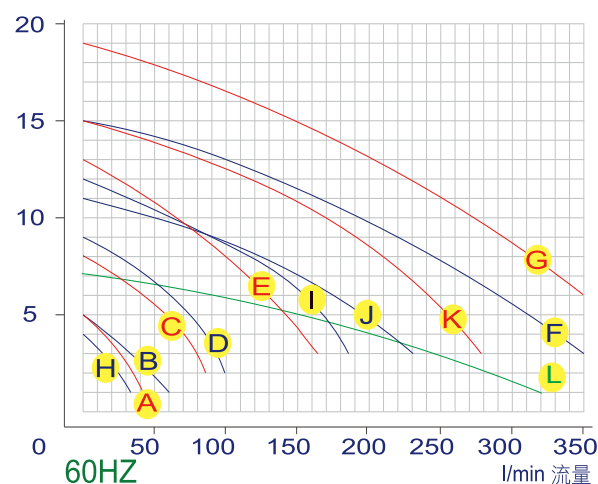
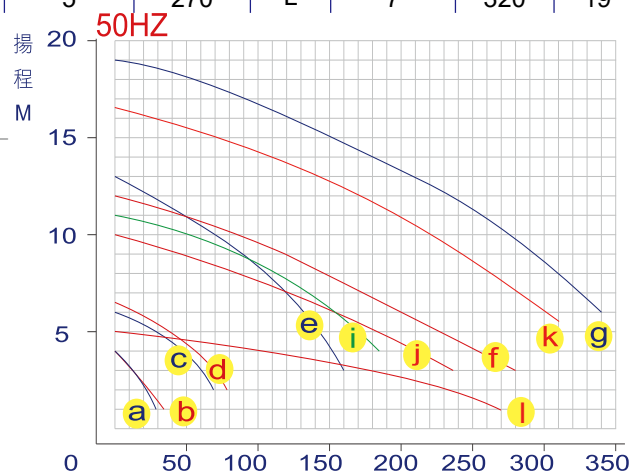
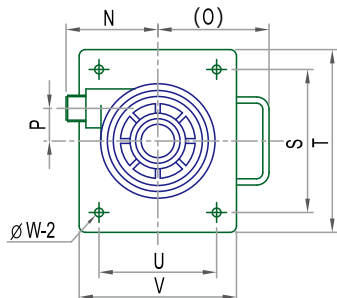
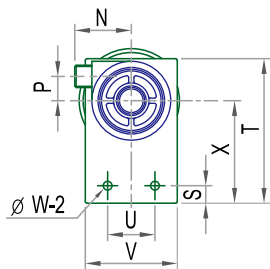
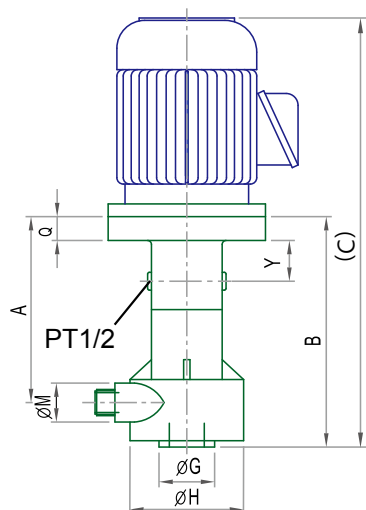
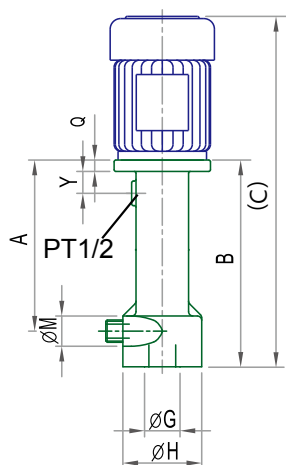
Specification

Testing fluid: Water(Specific gravity 1.0)

Type 機型	Model 規格	S.G. 比重	In/Outlet 進出口徑 mm	Power 馬力			50Hz			60Hz			Weight 重量 Kg
				Phase 相數	HP	Pole 極數	Curve 曲線	全揚程 M	全流量 L/min	Curve 曲線	全揚程 M	全流量 L/min	
SP	20SK-1/8	1.1	1"X3/4"	1Φ	1/8	2	a	4	28	A	5	38	6
SP	20SK-1/6	1.1	1"X3/4"	1Φ	1/6	2	b	4	32	B	5	60	6
SP	20SK-1/4	1.1	1"X3/4"	1Φ,3Φ	1/4	2	c	6	70	C	8	85	14
SP	25SK-1/3	1.1	1"X1"	1Φ,3Φ	1/3	2	d	6.5	80	D	9	100	15
SP	25SK-1/2	1.1	1-1/2"X1"	1Φ,3Φ	1/2	2	e	13	160	E	13	165	19
SP	40SK-1	1.1	2"X1-1/2"	1Φ,3Φ	1	2	f	12	280	F	15	350	20
SP	40SK-2	1.1	2"X1-1/2"	3Φ	2	2	g	19	340	G	19	400	24
SP	20SP-1/6	1.4	1"X3/4"	1Φ	1/6	2	a	4	28	H	4	32	6
SP	25SP-1/3	1.4	1"X1"	1Φ,3Φ	1/3	2	c	6	70	C	8	85	15
SP	25SP-1	1.4	1-1/2"X1"	1Φ,3Φ	1	2	i	11	200	I	12	185	20
SP	40SP-1	1.4	2"X1-1/2"	1Φ,3Φ	1	2	j	10	230	J	11	230	20
SP	40SP-2	1.4	2"X1-1/2"	3Φ	2	2	k	16.5	320	K	15	280	24
SP	40SL-1/2	1.4	2"X1-1/2"	3Φ	1/2	4	l	5	270	L	7	320	19

SP-1/6~1/8HP

SP-1/4~2HP



DIMENSION

MODEL	A	B	(C)	G	H	M	N	(O)	P	Q	S	T	U	V	W	X	Y
20SK-1/8	195	236	401	40	90	33	64.5		30	14	20	165	54	109	10	117	36
20SK/SP-1/6	195	236	401	40	90	33	64.5		30	14	20	165	54	109	10	117	36
20SK-1/4	260	302	562	42	110	43	100	142	35	18	150	182	150	182	10		53.5
25SK/SP-1/3	260	302	562	42	110	43	100	142	35	18	150	182	150	182	10		53.5
25SK-1/2	234	293	578	70	144	49	115	153	41	30	180	230	150	198	15		30.5
25SP-1	234	293	578	70	144	49	115	153	41	30	180	230	150	198	15		30.5
40SK/SP-1	234	293	578	70	144	49	115	153	41	30	180	230	150	198	15		30.5
40SK/SP-2	234	293	608	70	144	49	115	153	41	30	180	230	150	198	15		30.5
40SL-1/2	234	297	582	70	168	49	126	153	49	31	180	249	150	216	15		30.5

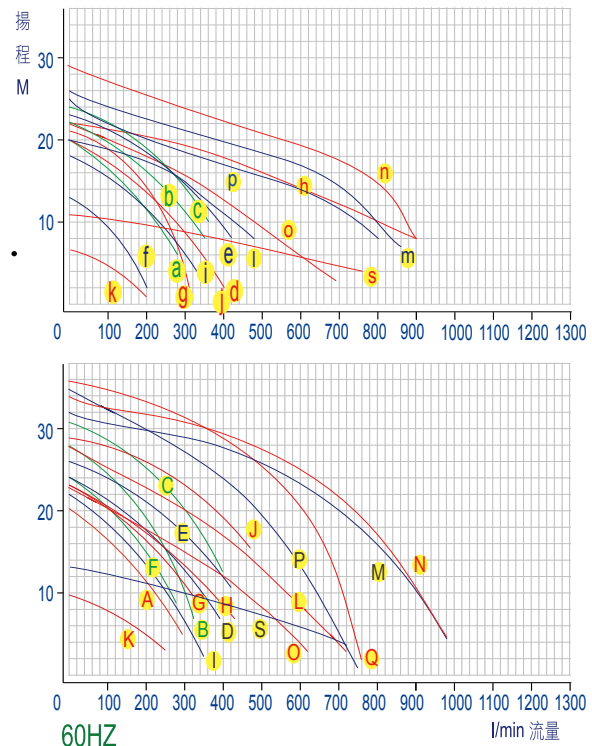
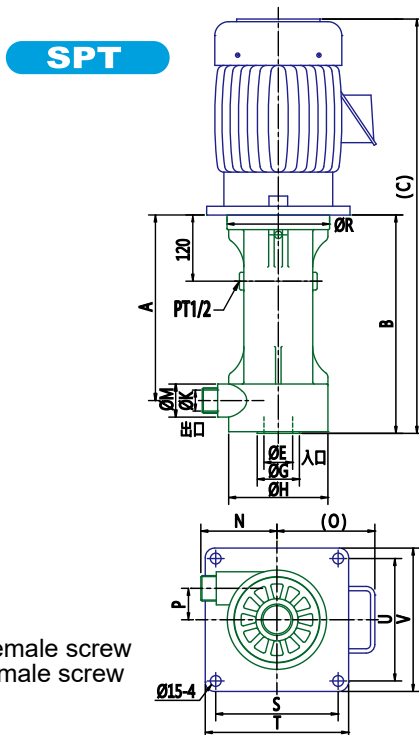
SPT

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

Specification

Testing fluid: Water(Specific gravity 1.0)

Type 機型	Model 規格	S.G. 比重	In/Outlet 進出口徑 mm	Power 馬力			Curve 曲線	50Hz		Curve 曲線	60Hz		Weight 重量 Kg
				Phase 相數	HP	Pole 極數		Max.Head 全揚程 M	Max.Flow 全流量 L/min		Max.Head 全揚程 M	Max.Flow 全流量 L/min	
SPT	40SK-2	1.1	50X40	3Φ	2	2	a	20	270	A	24	280	40
SPT	40SK-3	1.1	50X40	3Φ	3	2	b	22	350	B	28	325	43
SPT	40SK-5	1.1	50X40	3Φ	5	2	c	24	360	C	31	400	60
SPT	50SK-3	1.1	50X50	3Φ	3	2	d	20	400	D	24	390	44
SPT	50SK-5	1.1	50X50	3Φ	5	2	e	22	420	E	26	420	61
SPT	65SK-5	1.1	80X65	3Φ	5	2	l	20	480	L	28	720	61
SPT	65SK-7.5	1.1	80X65	3Φ	7.5	2	m	26	850	M	32	980	95
SPT	65SK-10	1.1	80X65	3Φ	10	2	n	29	900	N	34	980	105
SPT	40SP-2	1.4	50X40	3Φ	2	2	f	13	200	F	20	290	40
SPT	40SP-3	1.4	50X40	3Φ	3	2	g	21	310	G	23	320	43
SPT	40SP-5	1.4	50X40	3Φ	5	2	h	23	370	H	23	430	60
SPT	50SP-3	1.4	50X50	3Φ	3	2	i	18	330	I	22	350	44
SPT	50SP-5	1.4	50X50	3Φ	5	2	j	20	400	J	29	480	61
SPT	65SP-5	1.4	80X65	3Φ	5	2	o	22	690	O	23	620	61
SPT	65SP-7.5	1.4	80X65	3Φ	7.5	2	p	25	800	P	35	750	95
SPT	65SP-10	1.4	80X65	3Φ	10	2	q	26	850	Q	36	760	105
SPT	50SL-1	1.4	50X50	3Φ	1	4	k	6.5	200	K	9	250	32
SPT	65SL-2	1.4	80X65	3Φ	2	4	r			R			42
SPT	65SL-3	1.4	80X65	3Φ	3	4	S	11	760	S	12	720	45



DIMENSION

UNIT: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	65	110	225	65	90	160	250	70	186	300	355	300	355
80SK/SP-7.5	360	494	971	80	110	225	80	90	160	250	70	186	300	355	300	355
80SK/SP-10	360	494	971	80	110	225	80	90	160	250	70	186	300	355	300	355
80SL-2	360	494	833	80	110	225	80	90	160	250	70	186	300	355	300	355

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.

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

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



SV(316#) / SVT(鈦金屬-Titanium metal)

Double impellers、雙葉輪、
Single vapor seal、單軸封

SV - 40 SK - 1 6 N S - O N H M
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11)

- (1) SV - 不鏽鋼316#
SVT-鈦金屬
(2) 口徑 25 - 1"內牙式
40 - 1-1/2"內牙式
50 - 2"內牙式
65 - 2-1/2" 80 - 3"

- (3) 比重 SK - 1.1 SP - 1.4 (6) O環: N - NBR E - EPDM
SL - 低轉速4P V-VITON T - EFLON
(4) 馬力 1/2 - 1/2HP, 1-1 HP (7) 泵體材質:
2 - 2HP, 3-3HP S - SUS 316 T - 鈦
5 - 5HP, 7.5-7.5HP (8) I - 槽內安裝 O - 槽外安裝
10 - 10HP (9) S - 特殊規格 N - 標準機型
(5) 頻率 (10) H - 加裝溢流排氣
5 - 50Hz 6 - 60Hz (11) M - 電機方托

No.	Description 品名	Material 材質
1	Motor 馬達	FC
2	Shaft Pin 軸心鍵	SUS/TI
4	Body 主體	SUS/TI
5	Spacer Ring 間隔環	SUS/TI
5A	Impeller Washer 葉輪墊片	SUS/TI
5B	Impeller Nut 葉輪螺帽	SUS/TI
5C	Impeller Screw 葉輪螺絲	SUS/TI
6	Impeller 葉輪	SUS/TI
6A	Rear Impeller Screw 背葉止付螺絲	SUS/TI
6B	Rear Impeller 背葉體	SUS/TI
6C	Partition 隔板	SUS/TI
7	FPT threaded flange 法蘭	SUS
7-1	Flange Gasket 法蘭墊片	NBR/EPDM/ VITON/Teflon
7-2	Flange Screw 法蘭螺絲	SUS
7-3	Flange Nut 法蘭螺帽	SUS
8	Front Cover 前蓋	SUS/TI
9	Body Screw 主體螺絲	SUS/TI
10	Front Cover Screw 前蓋螺絲	SUS/TI
10-1	Body Gasket 主體墊片	NBR/EPDM/ VITON/Teflon
11	Dry Seal Cover 軸封蓋	FRPP/ CERAMIC
12	Dry Seal 乾式軸封	NBR/EPDM/ VITON
13	Shaft Sleeve 軸套	PP
13A	Shaft Sleeve Screw 軸套螺絲	SUS
28	Motor Front Cover Gasket 馬達前蓋墊片	NBR



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.

1/2~2HP



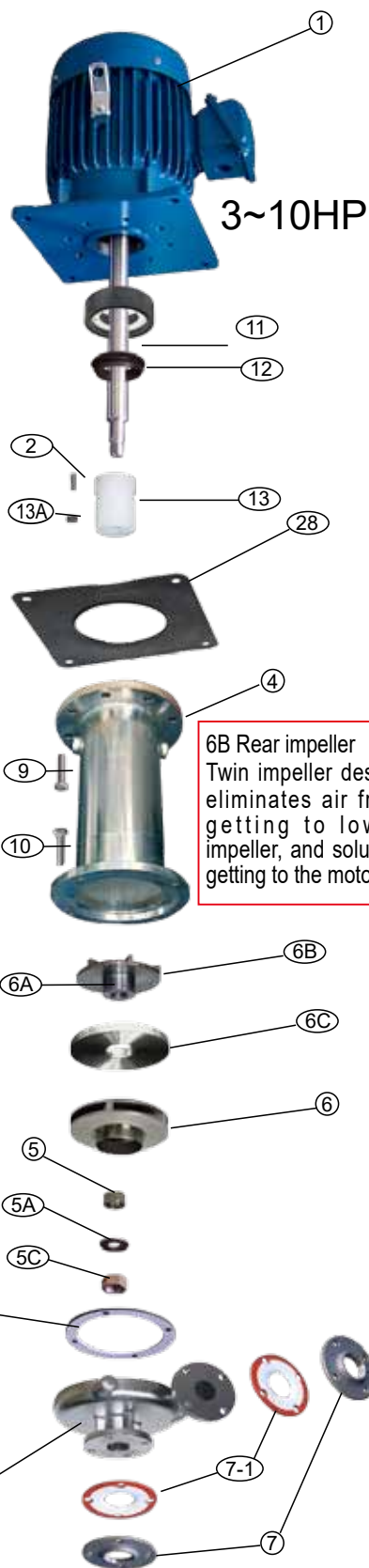
6B 背葉特點:
背葉輪設計, 榮獲多國專利, 可隔離氣體經由背葉進入打出小氣泡, 而對藥水的損壞, 提高負壓力, 在使用中防止液體往上升而造成溢流。
拋棄傳統的設計模式, 使背葉的反向阻力得到顯著的提升, 同時減少工作液體與空氣接觸面積, 減少空氣溶解量, 避免泵浦帶入空氣。

Patented rear impeller eliminates the bubble to enter the tank and derstroy the solution. Increased pressure from the rear impeller will stop the overflow in running. Break-through design increased the pressure from the rear impeller obviously as well as stop the bubble to mix with the fluid.

6C Partition 隔板
在背葉與葉輪間形成水壓, 增加空氣進入工作液體的難度, 同時可提高液體上升的阻力。
Functions as forming full fluid in the chamber to stop bubble to enter the fluid.

10-1, 7-1 墊片
採用橡膠外觀Teflon墊片, 使耐腐蝕性、耐高溫性得到顯著提高。
Viton covered with teflon functions better in anti-corrosion and anti-heat.

8前蓋體
精密鑄造的泵殼
Finely casted casing

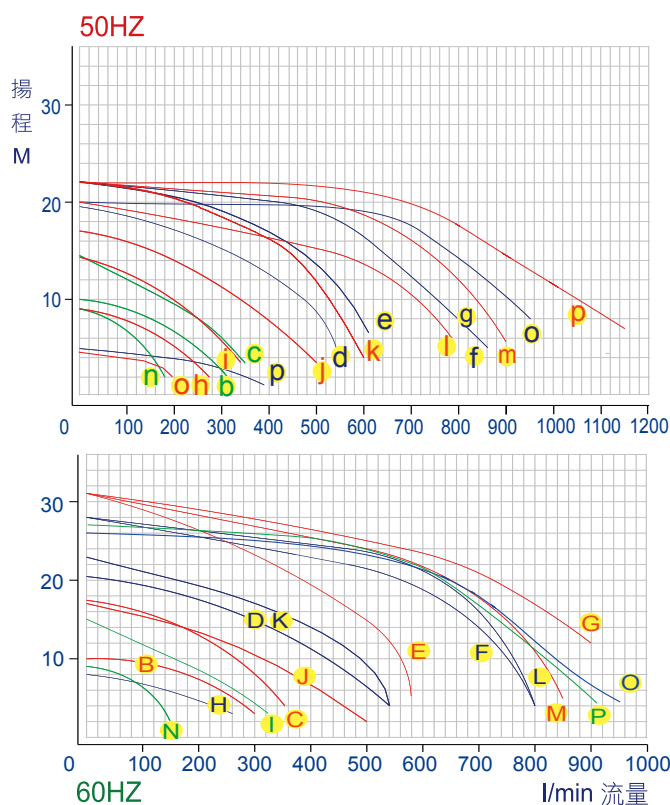
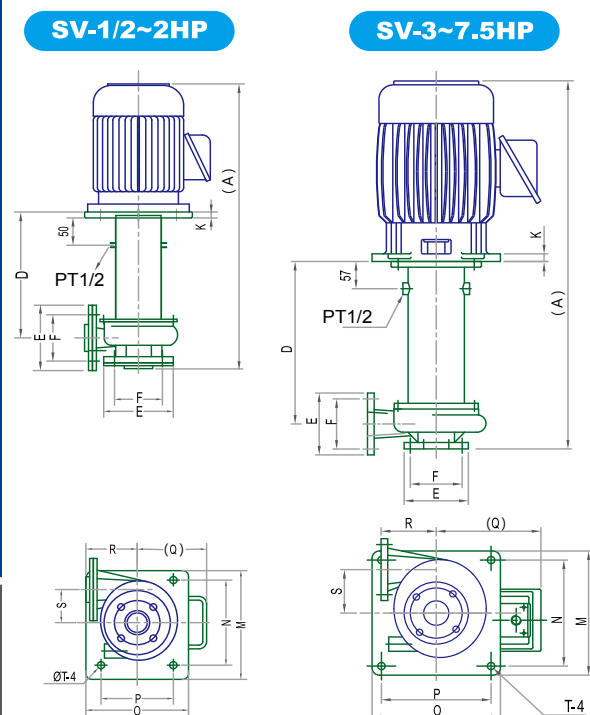


6B Rear impeller
Twin impeller design eliminates air from getting to lower impeller, and solution getting to the motor.

Specification

Testing fluid: Water(Specific gravity 1.0)

Type 機型	Model 規格	S.G. 比重	In/Outlet 進出口徑 mm	Power 馬力			50Hz			60Hz			Weight 重量 Kg
				Phase 相數	HP	Pole 極數	Curve 曲線	全揚程 M	全流量 L/min	Curve 曲線	全揚程 M	全流量 L/min	
SV	40SK-1	1.1	40x40	3Φ	1	2	b	10	310	B	10	300	29
SV	40SK-2	1.1	40x40	3Φ	2	2	c	14.5	350	C	17.5	350	32
SV	50SK-3	1.1	50x50	3Φ	3	2	d	19.5	540	D	20.5	540	56
SV	50SK-5	1.1	50x50	3Φ	5	2	e	22	600	E	31	580	72
SV	65SK-7.5	1.1	80x65	3Φ	7.5	2	f	22	860	F	28	800	116
SV	65SK-10	1.1	80x65	3Φ	10	2	f	22	860	G	31	1050	122
SV	40SP-1	1.4	40x40	3Φ	1	2	h	9	280	H	8	260	29
SV	40SP-2	1.4	40x40	3Φ	2	2	i	14.5	340	I	15	325	32
SV	50SP-3	1.4	50x50	3Φ	3	2	j	17	500	J	17	500	54
SV	50SP-5	1.4	50x50	3Φ	5	2	k	22	600	K	23	540	72
SV	65SP-7.5	1.4	80x65	3Φ	7.5	2	l	20	760	L	28	800	116
SV	65SP-10	1.4	80x65	3Φ	10	2	m	22	920	M	31	850	122
SV	80SP-7.5	1.4	80x80	3Φ	7.5	2	o	20	950	O	26	105	116
SV	80SP-10	1.4	80x80	3Φ	10	2	p	22	1150	P	27	240	122
※SVT	40SK-1/2	1.1	40x40	1Φ,3Φ	1/2	2	n	9	180	N	9	150	24
※SVT	40SK-1	1.1	40x40	1Φ,3Φ	1	2	b	10	310	B	10	300	27
※SVT	40SK-2	1.1	40x40	3Φ	2	2	c	14.5	350	C	17.5	350	30
※SVT	50SK-3	1.1	50x50	3Φ	3	2	d	19.5	540	D	20.5	540	50



SV-IN/OUT-Female screw <内牙式> / JIS 5K

UNIT:MM

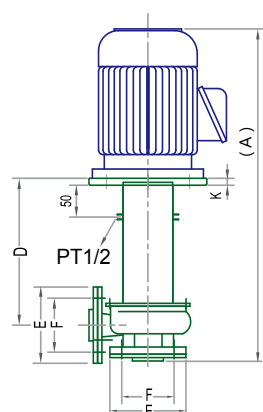
MODEL	(A)	D	E	F	K	M	N	O	P	(Q)	R	S	T
40SK/SP-1	555	247	118	92	12	230	180	210	148	142	135	73	15
40SK/SP-2	585	247	118	92	12	230	180	210	148	142	135	73	15
50SK/SP-3	733	340	130	103	16	260	222	260	222	192	133	90	15
50SK/SP-5	773	340	130	103	16	260	222	260	222	212	133	90	15
65SK/SP-7.5	856	343	179	145	20	350	300	350	300	250	161	95	18
65SK/SP-10	856	343	179	145	20	350	300	350	300	250	161	95	18
40SK-1/2	555	247	118	92	12	230	180	210	148	142	135	73	15
SVT-40SK-1/2	532	247	118	92	12	230	180	210	148	142	120	73	15
SVT-40SK-1/40SK-2	565	247	118	92	12	230	180	210	148	142	120	73	15

Specification

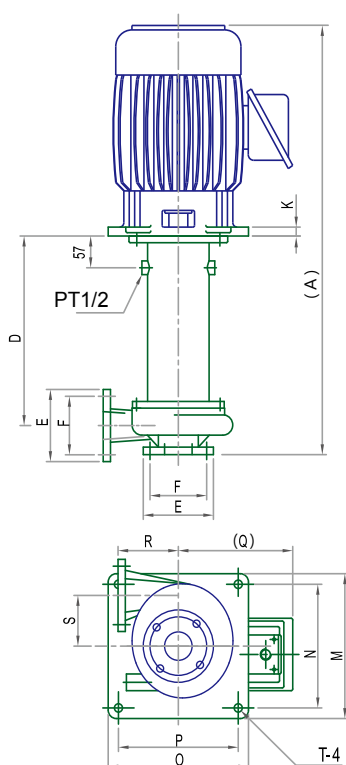
Testing fluid: Water(Specific gravity 1.0)

Type 機型	Model 規格	S.G. 比重	In/Outlet 進出口徑 mm	Power 馬力			50Hz			60Hz			Weight 重量 Kg
				Phase 相數	HP	Pole 極數	Curve 曲線	全揚程 M	全流量 L/ min	Curve 曲線	全揚程 M	全流量 L/ min	
SV	25SL-1/2	1.1	25x25	1Φ,3Φ	1/2	4	a	5	90	A	7	105	26
SV	40SL-1/2	1.4	40x40	3Φ	1/2	4	o	4.5	195	O	6.5	240	29
SV	40SL-1	1.4	40x40	3Φ	1	4	b	5	300	B	7.5	380	31
SV	50SL-1	1.4	50x50	3Φ	1	4	p	5	390	P	7.5	470	38
SV	50SA-5	1.4	50x50	3Φ	5	2	g	32	540	G	32	540	80
SV	65SL-2	1.4	80x65	3Φ	2	4	c	7	590	C	10	720	47
SV	80SL-2	1.4	80x80	3Φ	2	4	t	7	620	T	10	760	50

SV-1/2~2HP



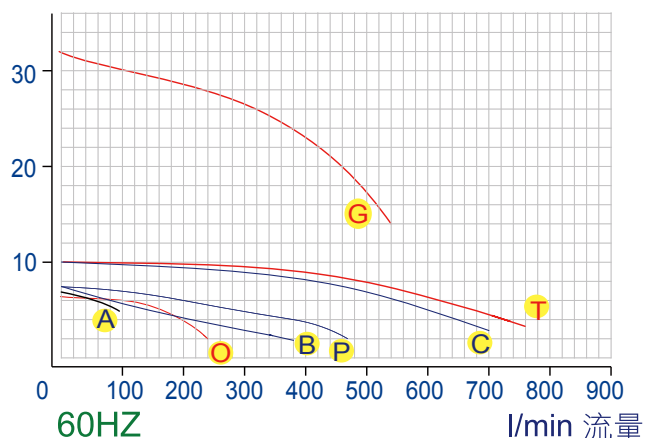
SV-3~7.5HP



50HZ



60HZ



SV-IN/OUT-Female screw 〈内牙式〉 / JIS 5K

UNIT:MM

MODEL	(A)	D	E	F	K	M	N	O	P	(Q)	R	S	T
25SK/SP-1/2	542	247	95	70	12	230	180	210	148	142	120	65	15
40SL-1/2	555	247	118	92	12	230	180	210	148	142	124	73	15
40SL-1	555	247	118	92	12	230	180	210	148	142	140	73	15
50SL-1	658	247	130	103	16	230	180	210	148	142	140	90	15
50SA-5	773	340	130	103	16	260	222	260	222	212	135	90	15
65SL-2	697	343	179	145	12	230	180	210	148	142	161.5	95	15
80SL-2	697	343	179	145	12	230	180	210	148	142	161.5	95	15

SWP

Single impeller、單葉輪、Double vapor seals、雙軸封

The SWP 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 SWP Series features a slotted 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 SWP series pumps are designed to run inside the tank. However, the installation instructions should be followed.

SWP泵可靠，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。SWP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，SWP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。

SWP Series Pumps:

- 1 year warranty.
- PP
- Max. fluid temperature: PP/167°F (75°C) .
- In-tank use only.
- High efficiency-low operating cost, leakfree operation and easy maintenance.
- Excellent chemical resistance.
- No seals or bearings in pump head to wear out.
- Continuous chemical duty TEFC motors with over sized bearings in motor casing.
- Vertical pumps can run-dry without damage to vapor seal.
- Keyed impeller prevent damage if pumps run in reverse on all three phase motors.
- Airless vertical pump.
- Discharge plumbing, easy mounting.
- 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.

SWP 泵

- 1年保固
- PP
- 最高流體溫度: PP/75°C (167°F)
- 槽內式安裝
- 高效率, 低操作成本, 不洩漏, 易於維護
- 耐腐蝕性優良
- 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
- 立式泵空運轉不會損壞乾式軸封
- 如果三相的馬達逆轉, 有鍵槽的葉輪可避免損壞
- 無氣泡立式泵
- 出口配管, 安裝容易
- 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

Typical applications 主要用途:

- Chemical or water recirculation 化學藥水或清水循環
- Fume scrubbers/waste treatment 廢氣塔/廢水處理
- PCB Plating solutions PCB電鍍
- Wet processing 濕製程
- Cleaning solutions 淨化溶液
- Deliver acids 各種酸液輸送

1/2~3HP

5~10HP



SWP

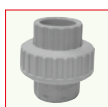
SWP - 32 SK 1 5 V F F T A
(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

- (1) SWP - 單葉輪雙軸封
SWT - 雙葉輪雙軸封
(2) 出口代號
32 - 1"管外徑(DIN)
40 - 1-1/4"管外徑(DIN)
50 - 1-1/2"管外徑(DIN)
63 - 2"管外徑(DIN)
75 - 2-1/2"管外徑(DIN)
(3) 比重 SK - 1.1
SP - 1.4
SL - 低轉速4P
(4) 馬力 1/2 - 1/2HP
1 - 1HP
3 - 3HP
7.5-7.5HP
(5) 頻率 5 - 50Hz
6 - 60Hz
(6) O環: V - VITON
E - EPDM
N - NBR
(7) 泵體材質 F - 純PP材質
(8) F-法蘭式
U-由任式
(9) T - 特制鈦軸心
N - 一般軸心
(10) A - 圓形入口濾網
B - 標準入口牙接頭

No.	Description 品名	Material 材質
1	Motor 馬達	FC
2	Shaft Pin 軸心鍵	SUS
3	Ventilator 接合座	FRPP
3A	Bolt 接合座固定螺絲	SUS
3B	Ceramic 陶瓷	Ceramic
4	Ceramic O-ring 陶瓷O環	NBR/VITON/ EPDM
5A	Dry Seal 乾式軸封	EPDM/VITON
6	Shaft Sleeve Screw 軸套螺絲	SUS
7	Shaft Sleeve 軸套	PP
7-1	Shaft Sleeve O-ring 軸套O環	NBR/VITON/ EPDM
8	Body 主體	FRPP
8-1	Body O-ring 主體固定板O環	NBR/EPDM
9A	Union End 由任外特浦	PP/PVC
9B	Union Cap 由任螺帽	PP/PVC
9C	Union O-ring 由任O環	NBR/VITON/ EPDM
14	Impeller 葉輪	FRPP
14A	Rear Impeller 背葉輪	FRPP
14A-2	Rear Impeller O-ring2 背葉輪O環2	NBR/VITON/ EPDM
15	Impeller Nut O-ring 葉輪螺帽O環	NBR/VITON/ EPDM
16	Impeller Nut 葉輪固定螺絲	PVDF/FRPP
17	Front Cover O-ring 前蓋O環	NBR/VITON/ EPDM
18	Front Cover 前蓋	FRPP
21	Front Cover C-clip 前蓋C扣環	FRPP
22	C-clip Nut C扣固定螺絲	FRPP



※5~10HP
出口方式:法蘭
Outlet flange



※1~3HP
出口方式:由任
Outlet: Union

Single impeller 單葉輪
Double vapor seals 雙軸封



選配件:
入口濾網



Part3 接合座

在其四周的排氣孔，可以直視檢測到馬達轉速的方向，同時可保護馬達，避免可能溢流出的藥水腐蝕，並排出有害的氣體

Being able to check the rotating direction through the holes.

They also functions to drain out the overflow fluid and vapor.

防止酸氣逸出，基座板與泵中肚結合一體，設計有基座板O環，防止液體中的酸氣逸出，減少空氣中的污染。

Part8 & 8-1 No Acid Vapor Escape. Mounting plate and main body are combined together. And the mounting plate O-ring stops the acid vapor to escape and pollute the ambient environment.

採用一體射出成型，可以提高強度，可避免因焊接不良產生的洩漏

接合的那個部份可配合客戶需求來選由任式或法蘭式
One piece molding injection body is strong and will not leak due to welding.

Union or flange is available for connection.

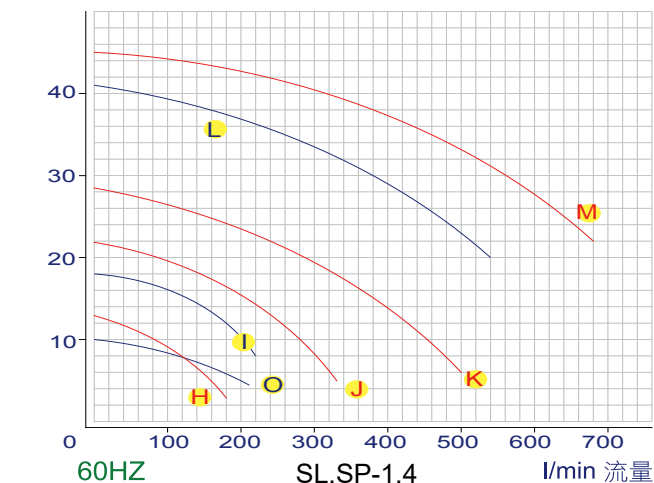
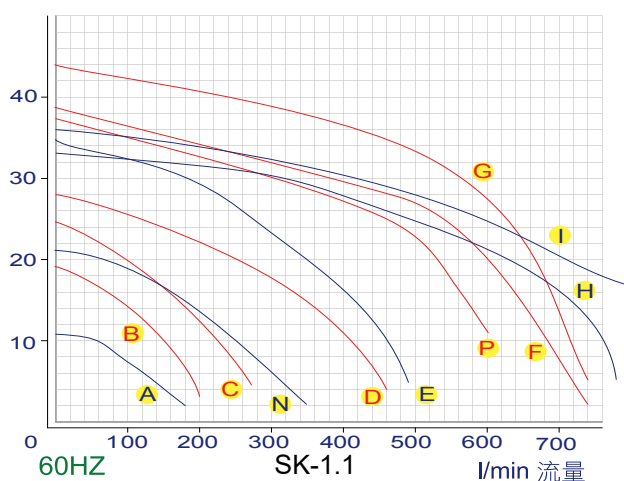
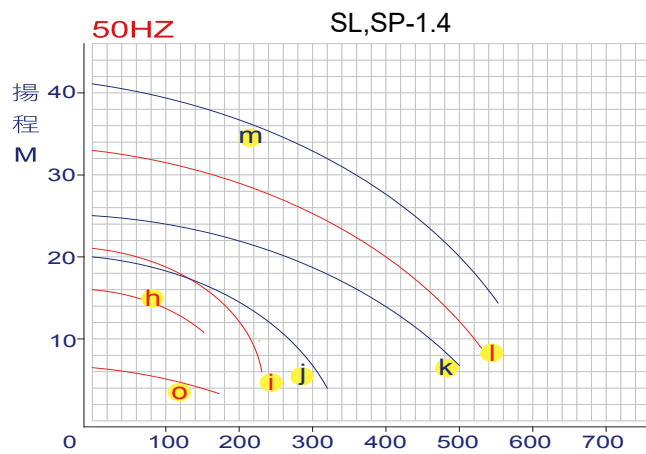
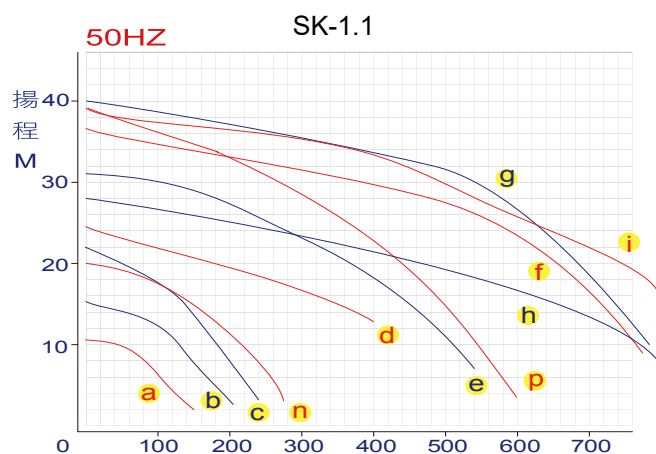
SWP

Specification

Testing fluid: Water(Specific gravity 1.0)

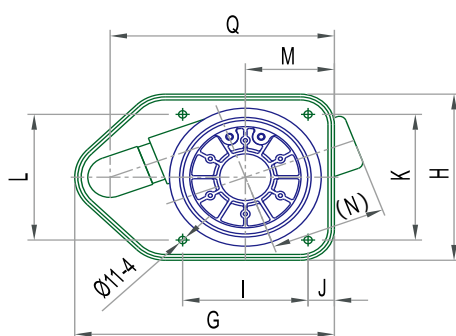
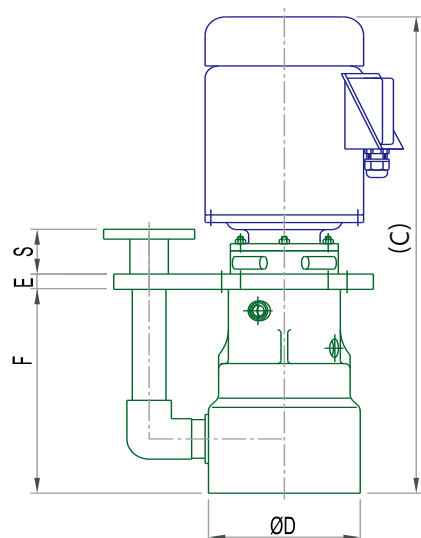
註: 32-代表出口1" 40-代表出口1-1/4" 50-代表出口1-1/2" 63-代表出口2"

Type 機型	Model 規格	S.G. 比重	In/Outlet 進出口徑 mm	Power 馬力			50Hz		60Hz				Weight 重量 Kg
				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	
SWP	32SK-1/2	1.1	2"X1"	3Φ	1/2	2	a	10.5	150	A	10.5	180	18
SWP	32SK-1	1.1	2"X1"	3Φ	1	2	b	15.5	200	B	18.5	200	20
SWP	32SK-2	1.1	2"X1"	3Φ	2	2	c	22	240	C	24.5	275	25
SWP	40SK-2	1.1	2"X1-1/4"	3Φ	2	2	n	20	275	N	21	350	25
SWP	50SK-3	1.1	2"X1-1/2"	3Φ	3	2	d	24.5	400	D	28	460	29
SWP	50SK-5	1.1	2-1/2"X1-1/2"	3Φ	5	2	e	31	540	E	34.5	490	46
SWP	50SK-7.5	1.1	2-1/2"X1-1/2"	3Φ	7.5	2	p	39	600	P	37.5	600	73
SWP	63SK-7.5	1.1	2-1/2"X2"	3Φ	7.5	2	f	36.5	760	F	38.5	740	73
SWP	63SK-10	1.1	2-1/2"X2"	3Φ	10	2	g	40	790	G	44	740	76
SWP	75SK-7.5	1.1	3"X2-1/2"	3Φ	7.5	2	h	28	800	H	33	780	73
SWP	75SK-10	1.1	3"X2-1/2"	3Φ	10	2	i	39	800	I	36	800	76
SWP	50SL-1	1.1	2"X1-1/2"	3Φ	1	4	o	6.5	170	O	10	210	22
SWP	63SL-2	1.4	2"X2"	3Φ	2	4	SL-大流量						
SWP	50SP-1	1.4	2"X1-1/2"	3Φ	1	2	h	16	150	H	13	180	20
SWP	50SP-2	1.4	2"X1-1/2"	3Φ	2	2	i	21	230	I	18	220	25
SWP	63SP-3	1.4	2"X2"	3Φ	3	2	j	20	320	J	22	330	29
SWP	63SP-5	1.4	2-1/2"X2"	3Φ	5	2	k	25	500	K	28.5	500	46
SWP	63SP-7.5	1.4	2-1/2"X2"	3Φ	7.5	2	l	33	530	L	41	540	73
SWP	63SP-10	1.4	2-1/2"X2"	3Φ	10	2	m	41	550	M	45	680	76

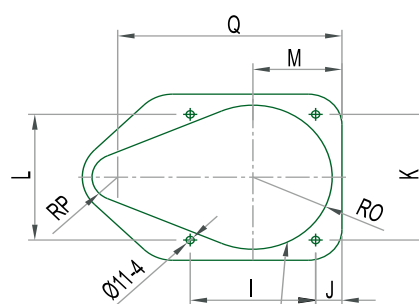
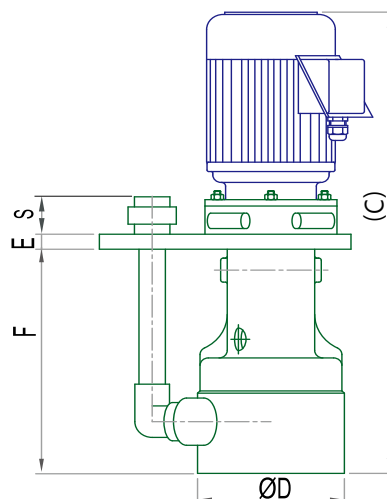


SWP

SWP5~10HP



SWP-1/2~3HP



槽內泵體放置孔尺寸

DIMENSION

UNIT:MM

MODEL	(C)	D	E	F	G	H	I	J	K	L	M	(N)	RO	RP	Q	S
32SK-1/2HP	637	178	25.5	295	341	240	211	26	180	180	117	125	94	25	260	70
32SK/SP-1HP	670	178	25.5	295	341	240	211	26	180	180	117	135	94	25	260	70
32SK/SP-2HP	701	178	25.5	295	341	240	211	26	180	180	117	145	94	25	260	70
40SK-2HP	701	178	25.5	295	341	240	211	26	180	180	117	145	94	32	275	80
50SK/SP-3HP	716	178	25.5	295	341	240	211	26	180	180	117	145	94	32	275	87
50SK/SP-5HP	825	225	25	338	385	271	186	39	205	205	132	172	118	32	322	40
63SK/SP-7.5HP	860	225	30	333	385	271	186	39	205	205	132	196	118	40	322	53
63SK/SP-10HP	890	225	30	333	385	271	186	39	205	205	132	196	118	40	322	53

TD
/
STD

TD (1)	- 50 (2)	SK (3)	3 (4)	6 (5)	V (6)	F (7)	I (8)	N (9)	H (10)
(1) 機型編號 TD - 單葉輪單軸封 STD - 單葉輪雙軸封			(4) 馬力 1 - 1HP, 2 - 2HP 3 - 3HP, 5 - 5HP 7.5 - 7.5HP, 10 - 10HP 15 - 15HP						(7) 泵體材質 F - FRPP, K - PVDF C - CPVC, P - CFRPP
(2) 口徑 40 - 1-1/2" 50 - 2" 65 - 2-1/2" 80 - 3" 100 - 4" 125 - 5"			(5) 頻率 5 - 50Hz 6 - 60Hz						(8) I - 槽內安裝 O - 槽外安裝
(3) 比重 SK - 1.0 SP - 1.4 SL - 低轉速4P			(6) O環 V - VITON N - NBR, E - EPDM						(9) S - 特殊規格 N - 標準機型
									(10) H - 加裝溢流排氣 (11) O - 電機圓托 M - 電機方托

The TD/STD 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 TD/STD series pumps are designed to run inside or outside the tank or process module. However, the installation instructions should be followed. They feature slotted air gap in the pump base and a double-dry seal, thereby preventing corrosive vapor from penetrating to the motor bearings. The pump shaft incorporates a keyed lock to the impeller so that if the pumps run in reverse, the housing and the impeller will not be damaged.

TD/STD 泵是可靠的，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，TD/STD 泵是設計來做槽內槽外或加工模組之用，但一定要依安裝高度之規定來安裝，其特色是有通氣槽在泵浦座上，以及一個乾式軸封，因此防止酸氣滲透到馬達軸承，泵浦軸心以鍵來與葉輪組合，因此當泵浦逆轉時，罩殼及葉輪不會受損。

TD/STD Series Features:

- 1 year warranty.
- CPVC, CFRPP, PVDF, FRPP construction.
- Non-metallic solution contact (outside of the tank).
- Max. fluid temperature:
FRPP/CPVC/CFRPP 167°F (75°C) PVDF 185°F (85°C).
- High efficiency-low operating cost, leakfree 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.
- Vertical pumps can run-dry without damage to vapor seal.
- Single vapor seal of TD series or double seals of STD series prevents corrosive vapors from entering the motor base.
- Thick reinforced ribbing in all molded parts.
- Simplicity of design makes these pumps easy to service and operate.
- Vented pump base.
- The pump can be mounted outside of tank or process module. For mounted inside the tank, the bolts should be changed depending on the solution.

Typical applications 主要用途:

- Chemical or water recirculation 化學藥水或清水循環
- Fume scrubbers / waste treatment 廢氣塔/廢水處理
- Various plating solutions recirculation 各種電鍍藥水循環

The difference between TD and STD series is single vapor seal or double vapor seals. The double vapor seals performs much more better than single vapor seal in sealing the backflow and vapor.

TD與STD的差異在於單軸封與雙軸封的結構，雙軸封阻擋停機回流與酸氣的效果較佳。

TD/STD 泵

- 1年保固
- CPVC, CFRPP, PVDF, FRPP 泵體結構
- 藥水不會接觸金屬材質(用於槽外)
- 最高流體溫度:
FRPP/CPVC/CFRPP 75°C(167°F) PVDF 85°C(185°F)
- 高效率, 低操作成本, 不洩漏, 易於維護
- 耐腐蝕性優良
- 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
- 立式泵空運轉不會損壞乾式軸封
- 單乾式軸封(TD)及雙乾式軸封(STD)防止腐蝕性氣體進入馬達座
- 所有射出成型零件有厚的補強肋
- 簡單化的設計使這種泵易於使用及操作
- 泵浦座上有通氣槽
- 此種泵可安裝於, 槽外或使用於加工模組中, 如用於槽內式安裝應考慮使用之化學性, 更改其他材質之螺絲



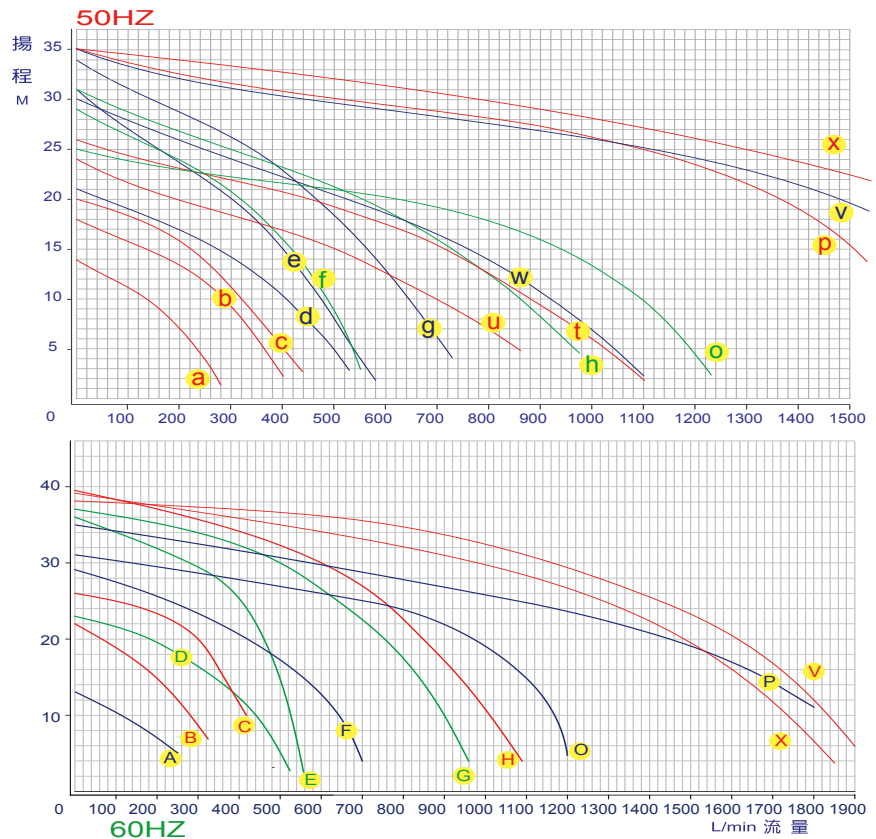
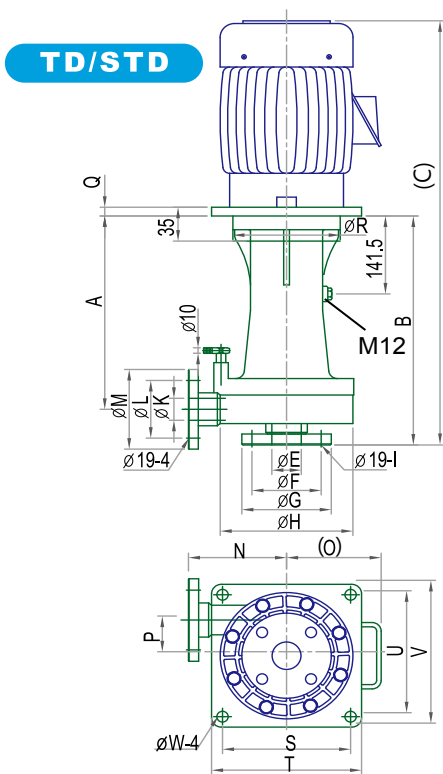
Specification

TD/STD

Testing fluid: Water(Specific gravity 1.0)

Type 機型	Model 規格	S.G. 比重	進出口徑 mm	Power 馬力			50Hz			60Hz			Weight 重量 Kg
				相數	HP	極數	曲線	全揚程 M	全流量 L/min	曲線	全揚程 M	全流量 L/min	
TD	40SK-1	1.1	50X40	3Φ	1	2	a	14	280	A	13	250	29
TD	40SK-2	1.1	50X40	3Φ	2	2	b	18	400	B	22	320	38
TD	40SK-3	1.1	50X40	3Φ	3	2	c	20	420	C	26	420	41
TD	50SK-3	1.1	65X50	3Φ	3	2	d	21	530	D	23	520	41
TD/STD	50SK-5	1.1	65X50	3Φ	5	2	e	31	580	E	36	560	55
TD/STD	65SK-5	1.1	80X65	3Φ	5	2	f	29	550	F	29	700	55
TD/STD	65SK-7.5	1.1	80X65	3Φ	7.5	2	g	34	730	G	37	960	95
TD/STD	65SK-10	1.1	80X65	3Φ	10	2	h	31	970	H	39.5	1100	106
TD	80SA-5	1.1	80X80	3Φ	5	2	u	24	860	黃色部分為大流量規格			
TD	80SA7.5	1.1	80X80	3Φ	7.5	2	t	26	1100				
TD	80SA-10	1.1	80X80	3Φ	10	2	w	30	1100				
TD	100SA-10	1.1	100X100	3Φ	10	2	o	25	1235	O	31	1200	102
TD	100SA-15	1.1	100X100	3Φ	15	2	p	35	1710	P	35	1800	114
TD	125SA-15	1.1	125X125	3Φ	15	2	v	35	1900	V	38	1900	115
TD	125SK-20	1.1	125X125	3Φ	20	2	x	35	2250	X	39	1850	125

(現場使用比重及壓損的變化應以實際需求點設計為準)



DIMENSION

TD/STD-in/out-flange

UNIT:MM

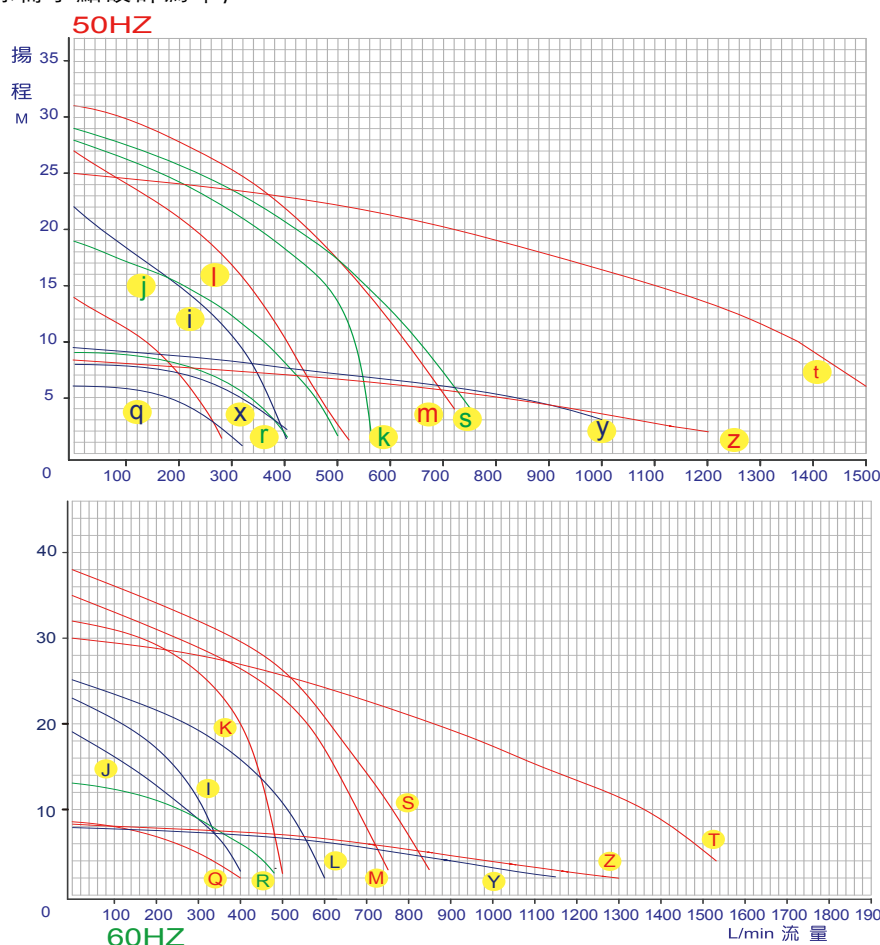
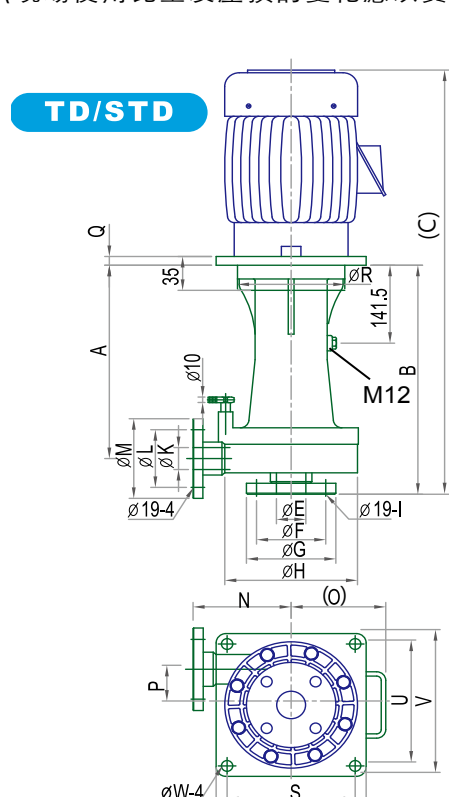
MODEL	A	B	(C)	E	F	G	H	I	K	L	M	N	(O)	P	Q	R	S	T	U	V	W
40SK-1	350	425	720	50	120	155	230	4	40	105	145	170	167	65	16	186	222	260	222	260	15
40SK-2	350	425	765	50	120	155	230	4	40	105	145	170	192	65	16	186	222	260	222	260	15
40SK/SP-3	350	425	765	50	120	155	230	4	40	105	145	170	192	65	16	186	222	260	222	260	15
50SK/SP-3	350	425	765	65	140	177	260	4	50	120	155	200	192	65	16	186	222	260	222	260	15
50SK/SP-5	350	425	805	65	140	177	260	4	50	120	155	200	212	65	16	186	222	260	222	260	15
65SK/SP/SA-5	350	425	805	78	150	190	260	8	65	140	177	200	212	65	16	186	222	260	222	260	15
65SK/SP/SA-7.5	350	425	865	78	150	190	260	8	65	140	177	200	250	65	20	186	300	350	300	350	18
65SK/SP-10	350	425	865	78	150	190	260	8	65	140	177	200	250	65	20	186	300	350	300	350	18
100SK-15	360	435	913	100	175	210	290	8	100	175	210	210	260	65	20	186	300	350	300	350	18
100SK-10	360	435	875	100	175	210	290	8	100	175	210	210	260	65	20	186	300	350	300	350	18
65SK/SL-2	350	425	765	78	150	190	260	8	65	140	177	200	192	65	16	186	222	260	222	260	15

Specification

TD/STD Testing fluid: Water(Specific gravity 1.0)

Type 機型	Model 規 格	S.G. 比重	進出口徑 mm	Power 馬 力			50Hz			60Hz			Weight 重 量 Kg
				相 數	HP	極 數	曲 線	全揚程 M	全流量 L/min	曲 線	全揚程 M	全流量 L/min	
TD	40SP-3	1.4	50x40	3Φ	3	2	i	22	400	I	23	340	41
TD	50SP-3	1.4	65x50	3Φ	3	2	j	19	500	J	19	400	41
TD/STD	50SP-5	1.4	65x50	3Φ	5	2	k	28	560	K	32	500	55
TD/STD	65SP-5	1.4	80x65	3Φ	5	2	l	27	520	L	25	600	55
TD/STD	65SP-7.5	1.4	80x65	3Φ	7.5	2	m	31	720	M	35	750	95
TD/STD	65SP-10	1.4	80x65	3Φ	10	2	s	33	750	S	38	850	106
TD	100SP-15	1.4	100x100	3Φ	15	2	t	25	1540	T	30	1530	114
TD	50SL-1	1.4	50x50	3Φ	1	4	q	6	320	Q	8.5	400	30
TD	80SL-2	1.4	80x80	3Φ	2	4	r	9	400	R	13	480	40
TD	100SL-3	1.4	100x100	3Φ	3	4	y	9	1000	Y	8	1150	45
TD	125SL-3	1.4	125x125	3Φ	3	4	z	8	1200	Z	9	1300	46

(現場使用比重及壓損的變化應以實際需求點設計為準)



DIMENSION

MODEL	A	B	(C)	E	F	G	H	I	K	L	M	N	(O)	P	Q	R	S	T	U	V	W
40SP-3	350	425	765	50	120	155	230	4	40	105	145	170	192	65	16	186	222	260	222	260	15
50SP-3	350	425	765	65	140	177	260	4	50	120	155	200	192	65	16	186	222	260	222	260	15
50SP-5	350	425	805	65	140	177	260	4	50	120	155	200	212	65	16	186	222	260	222	260	15
65SP-5	350	425	805	78	150	190	260	8	65	140	177	200	212	65	16	186	222	260	222	260	15
65SP-7.5	350	425	865	78	150	190	260	8	65	140	177	200	250	65	20	186	300	350	300	350	18
65SP-10	350	425	865	78	150	190	260	8	65	140	177	200	250	65	20	186	300	350	300	350	18
50SL-1	350	425	720	65	140	177	260	4	50	120	155	200	167	65	16	186	222	260	222	260	15
80SL-2	350	425	765	80	150	190	260	8	80	150	190	202	195	65	16	186	222	260	222	260	15
100SL-3	360	435	774	100	175	210	290	8	100	175	210	216	195	65	16	186	222	260	222	260	15
125SL-3	360	435	774	125	210	250	290	8	125	210	250	216	195	65	16	186	222	260	222	260	15

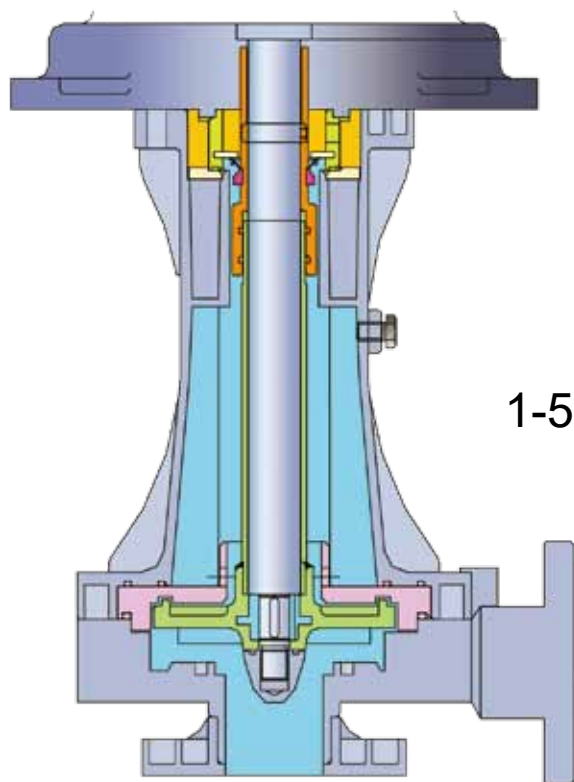
UNIT:MM

TD

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

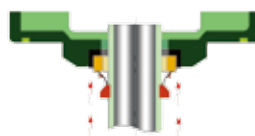
The unique vapor seal is opened by centrifugal force when pump is operating. This eliminates friction and seal wear. The seal closes back up when the pump shuts down to prevent vapor or fluid from reaching the motor face or bearings.

當泵浦開始運轉時，乾式軸封因離心力而打開，避免其磨損，泵浦停機時，軸封回復原位而閉鎖，防止酸氣或藥水腐蝕軸承。

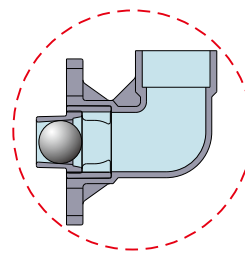
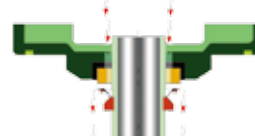


1-5HP

Stopped
停機時



normal running
運轉中



出口逆止彎頭

出口逆止閥獨創設計防止溢流。

Outlet Elbow

Outlet union prevent overflow.

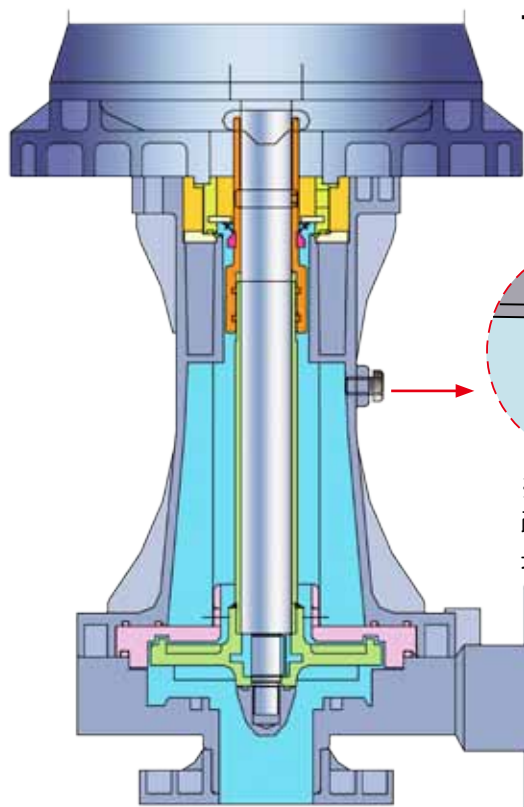
台灣新型第 M 299802 號

中國專利 實用新型

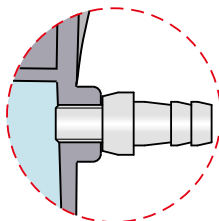
第 ZL 2006 2 0025929.0 號

名稱：化學用直立式幫浦出口
管逆止閥結構改良。

7.5-10HP



※When resistance of outlet is big. Suggest overflow joint collocated tube.



※出口阻力大時，建議改裝溢流接頭配上軟管長期排放至槽內。

Extra diameter impeller enables high pressure discharge. More suitable for frequency 50Hz area or higher pressure applications.

超大型的葉輪外徑，提供源源不絕的高壓力輸出，更適合於電壓50Hz地區，或需求更高壓力之應用場合的需求。

The impeller welded by welding rod may deform or collapse in high temperature, pressure and strong corrosion applications. Embedded design eliminates this problem.

以焊條焊接之葉輪於高溫高壓及高腐蝕力的嚴苛工作條件下，容易變形脫落，嵌入式並多點熱熔的葉輪一舉克服此一缺點。

Brand-new replaceable rear cover may save much cost while the pump head need to be replaced or changed material.

全新的可換後蓋設計，於更換泵體材質時，不需更換整個主體，或於主體損壞時，可能僅需更換可換後蓋即可，大量地節省維修費用，且防漏效果更佳。

TD

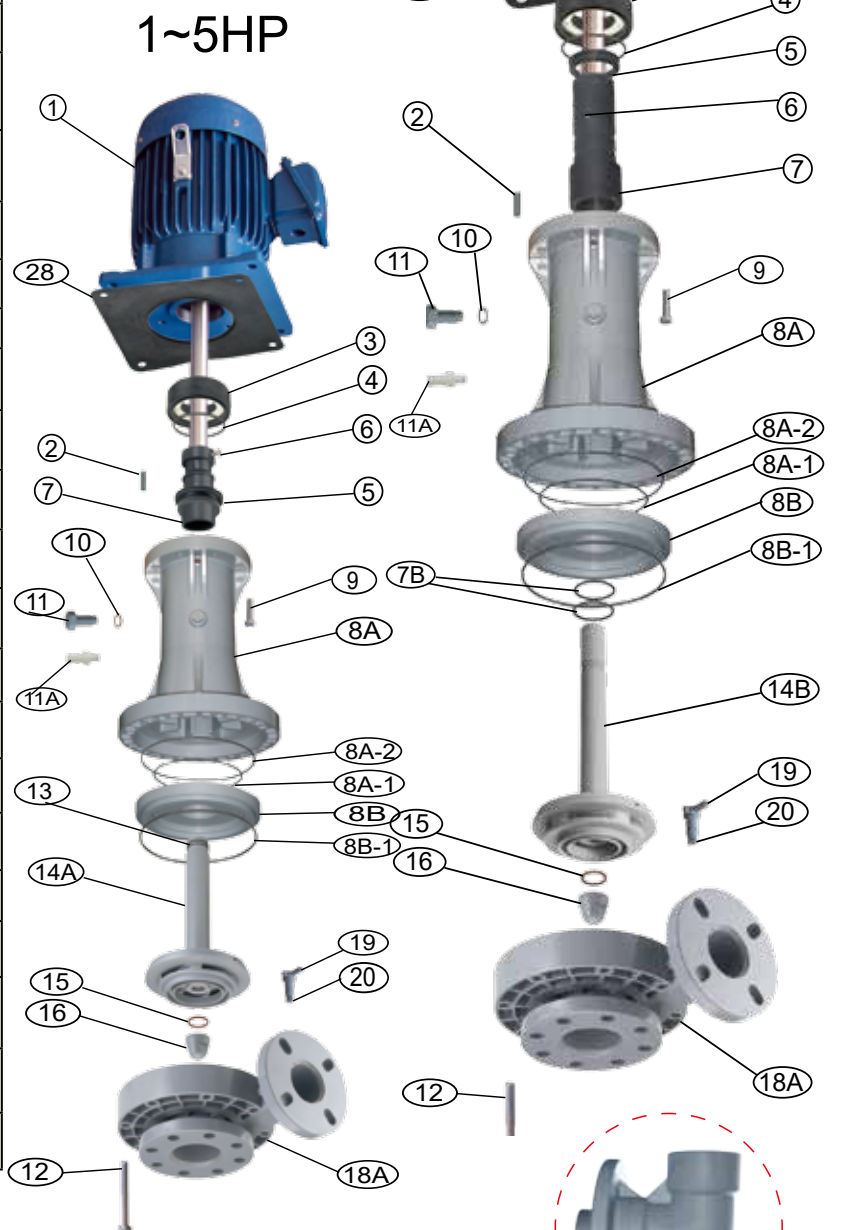
Single impeller、單葉輪、Single vapor seal、單軸封

No.	Description 品名	Material 材質
1	Motor 馬達	FC
2	Shaft Pin 軸心鍵	SUS
3	Dry Seal Cover 軸封蓋	FRPP
4	Dry Seal Cover O-ring 軸封蓋O環	NBR/VITON/EPDM
5	Dry Seal 乾式軸封	NBR/VITON/EPDM
6	Shaft Sleeve Screw 軸套螺絲	SUS
7	Shaft Sleeve 軸套	FRPP
7B	Shaft Sleeve O-ring 軸套O環	NBR/VITON/EPDM
8A	Body 組合式主體	FRPP/CFRPP/CPVC/PVDF
8A-1	Replaceable Cover O-ring-2 可換後蓋O環-2	NBR/VITON/EPDM
8A-2	Replaceable Cover O-ring-1 可換後蓋O環-1	NBR/VITON/EPDM
8B	Replaceable Cover 可換後蓋	FRPP/CFRPP/CPVC/PVDF
8B-1	Front Cover O-ring 前蓋O環	NBR/VITON/EPDM
9	Body Bolt 主體螺栓	SUS/Titanium
10	Release Screw O-ring 排放螺絲O環	NBR/VITON
11	Release Screw 排放螺絲	FRPP/CFRPP/CPVC/PVDF
11-A	Overflow Joint 溢流接頭	PP/PVC
12	Front Cover Bolt 前蓋螺栓	SUS/Titanium
13	Impeller O-ring 葉輪O環	NBR/VITON/EPDM
14A	Impeller 葉輪	FRPP/CFRPP/CPVC/PVDF
14B	Impeller 葉輪	FRPP/CFRPP/CPVC/PVDF
15	Impeller Nut O-ring 葉輪螺帽O環	NBR/VITON/EPDM
16	Impeller Nut 葉輪螺帽	FRPP/CFRPP/CPVC/PVDF
18A	Front Cover 前蓋	FRPP/CFRPP/CPVC/PVDF
19	Air Release Valve 排氣閥	FRPP/CFRPP/CPVC/PVDF
20	Air Release Valve Packing 排氣閥墊片	NBR/VITON/EPDM
28	塑膠四方形接合座	FRPP
29	Outlet Elbow 出口逆止彎頭	PP/PVC



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.



Part 8A 主體

採用一體射出成型，可以提高強度
Strong one piece construction.

Part8B 可換後蓋

可更換不同規格後蓋和葉輪而得到更高輸出功率
Various replaceable covers and impellers are available for different performance.

Part 11A 溢流接頭 將停機時溢流導回藥水槽

Lead the overflow to the tank while shutting down the pump.

出口逆止彎頭

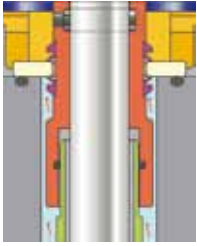
出口逆止閥獨創設計防止溢流。

Outlet Elbow

Outlet union prevent overflow.

STD

Single impeller、單葉輪、Double vapor seals、雙軸封



Double vapor seals
Analytical cross section
雙軸封泵剖面結構

- Double Vapor Seals Design
- *Reducing the air from the top.
 - *No leakage caused by high pressure when pump stops.
 - *No acid vapor reaching the bearing.

雙乾式軸封設計，直立泵的一大突破

- *減少從頂部吸入之空氣
- *不怕反壓而引起洩漏
- *隔離藥液中的酸氣，不會腐蝕軸承

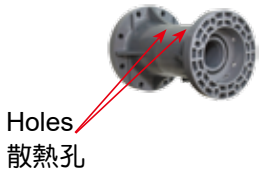


Design for higher pressure demand.

Double seals protect the motor and bearing perfectly all the way. It can really stops the overflow due to higher pressure in running or flow-back while pump shut down.

合乎更高壓力需求的設計

STD機型優異的新型雙軸封設計，防漏及防酸氣腐蝕的效果超強，當泵內壓力提高時，可嚴密阻擋溢流之藥水，不怕停機時液體回流而洩漏，損壞泵浦。



Heat sink design.

The 8 holes sink the heat caused by seal friction.

細心的散熱設計
機型主體有多個散熱孔設計，使在運轉中的熱量自然排出，保護主體不受熱變型。



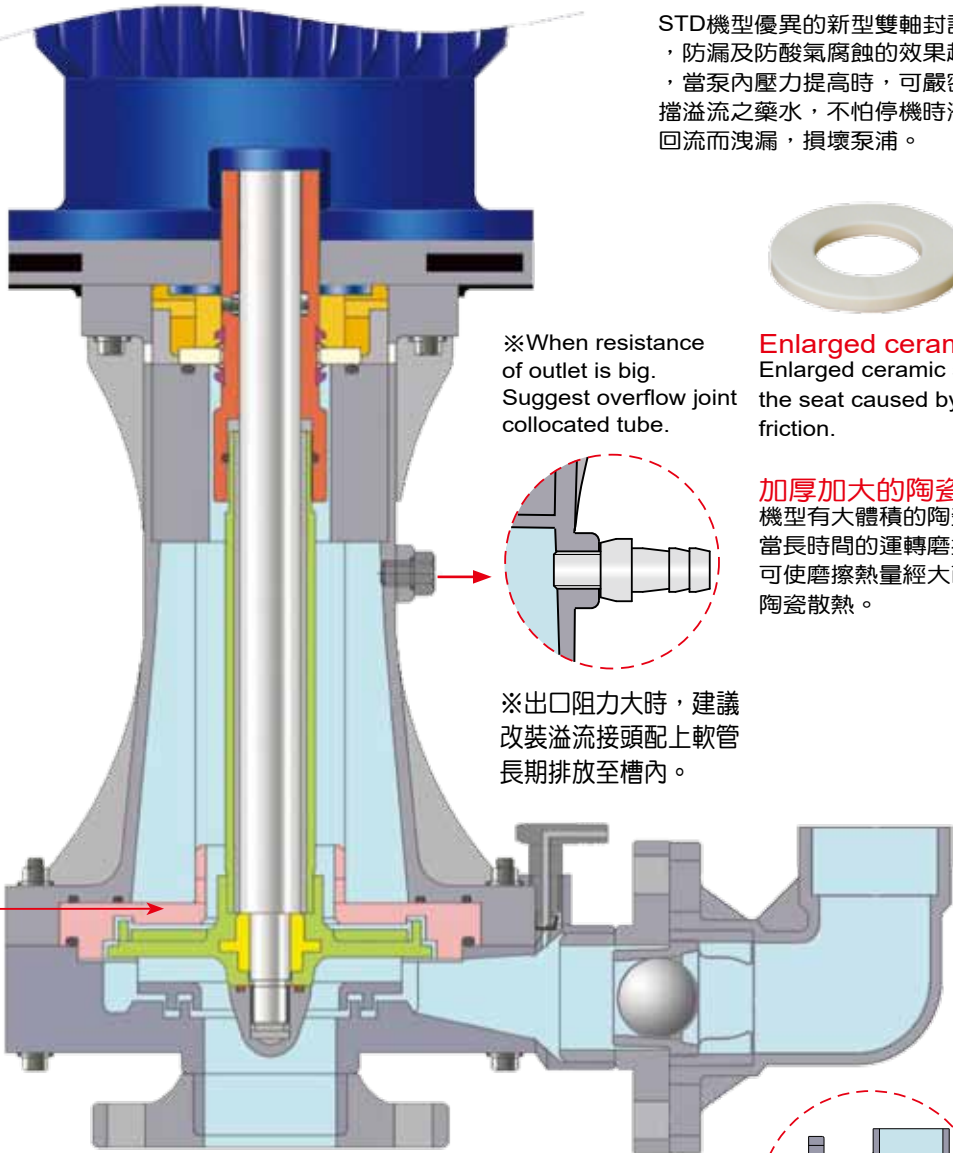
Replaceable rear cover
可分解易拆的可換後蓋

Innovative replaceable rear cover.
Non-welded replaceable rear cover processed by NC lathe can eliminate the leakage caused by hollow.
Occasionally the bottom surface worn out or you'd like to change the body for different solution, only changing the brand-new replaceable rear cover is enough. It saves your money and seals even better.

創新的可換後蓋設計

TD/STD新設計可換後蓋組合式，以O環全部密封，O環溝經NC車床加工表面平整細緻，O環覆蓋於溝中，不易洩漏，無任何焊接點。

全新的可換後蓋設計，於更換泵體材質或主體損壞時，僅需更換可換後蓋即可，節省維修費用且防漏效果更佳。



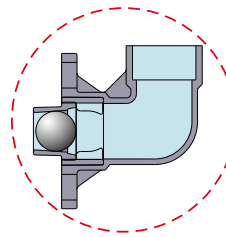
※When resistance of outlet is big. Suggest overflow joint collocated tube.



Enlarged ceramic.
Enlarged ceramic sinks the seat caused by seal friction.

加厚加大的陶瓷面積
機型有大體積的陶瓷面，當長時間的運轉磨擦時，可使磨擦熱量經大面積的陶瓷散熱。

※出口阻力大時，建議改裝溢流接頭配上軟管長期排放至槽內。



出口逆止彎頭

出口逆止閥獨創設計防止溢流。

Outlet Elbow

Outlet union prevent overflow.

台灣新型第 M 299802 號

中國專利 實用新型

第 ZL 2006 2 0025929.0 號

名稱：化學用直立式幫浦出口管逆止閥結構改良。

Strong Embedded impeller.

Welded shores enable the impeller stronger for higher temperature and pressure applications.

堅固的嵌入式葉輪

本公司之嵌入式葉輪，搭配大量之固定柱，並熱熔密合，大大地提昇了葉輪的牢固程度，可抗高溫，高壓，不易損壞。



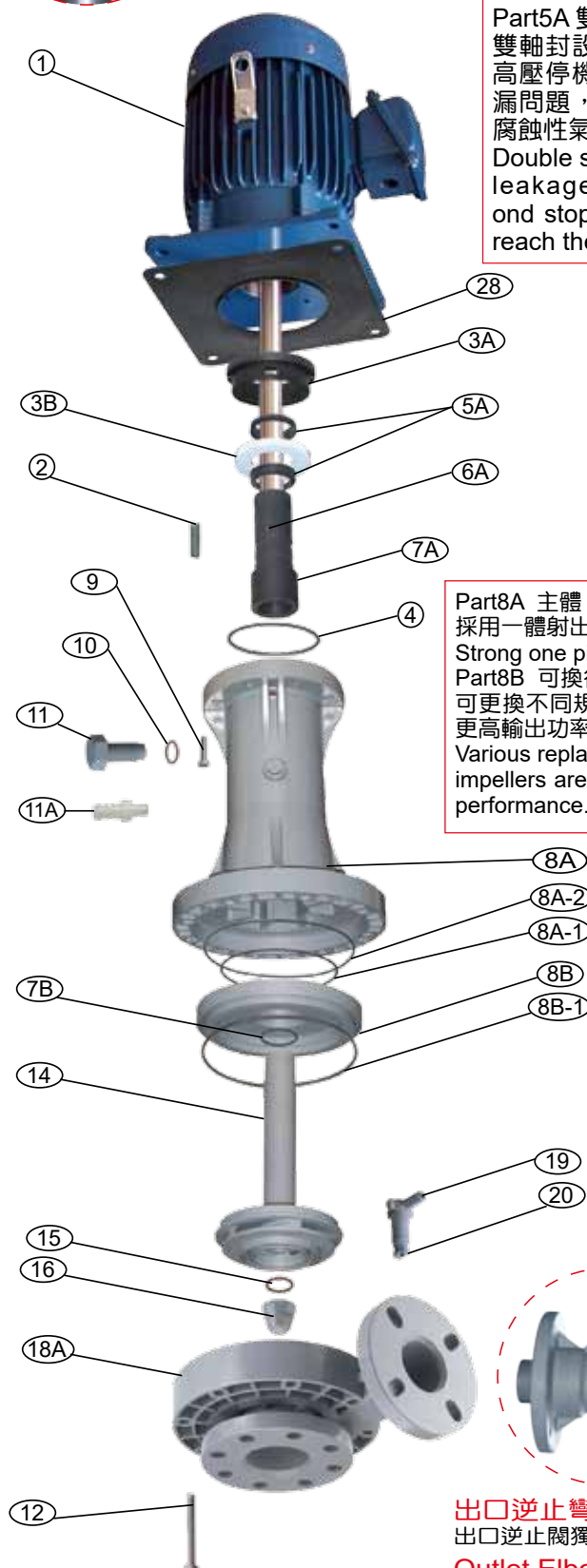
STD

Single impeller、單葉輪、Double vapor seals、雙軸封

No.	Description 品名	Material 材質
1	Motor 馬達	FC
2	Shaft Pin 葉輪鍵	SUS
3A	Dry Seal Cover 軸封蓋	FRPP
3B	Ceramic 陶瓷	Ceramic
4	Dry Seal Cover O-ring 軸封蓋O環	NBR/VITON/EPDM
5A	Dry Seal 乾式軸封	NBR/VITON/EPDM
6A	Shaft Sleeve Screw 軸套螺絲	SUS
7A	Shaft Sleeve 軸套	FRPP
7B	Shaft Sleeve O-ring 軸套O環	NBR/VITON/EPDM
8A	Body 組合式主體	FRPP/CFRPP CPVC/PVDF
8A-1	Replaceable Cover O-ring-2 可換後蓋O環-2	NBR/VITON/EPDM
8A-2	Replaceable Cover O-ring-1 可換後蓋O環-1	NBR/VITON/EPDM
8B	Replaceable Cover 可換後蓋	FRPP/CFRPP CPVC/PVDF
8B-1	Front Cover O-ring 前蓋O環	NBR/VITON/EPDM
9	Body Bolt 主體螺栓	SUS/Titanium
10	Release Screw O-ring 排放螺絲O環	NBR/VITON/EPDM
11	Release Screw 排放螺絲	FRPP/CFRPP CPVC/PVDF
11A	Overflow Joint 溢流接頭	PP/PVC
12	Front Cover Bolt 前蓋螺栓	SUS/Titanium
14	Impeller 葉輪	FRPP/CFRPP CPVC/PVDF
15	Impeller Nut O-ring 葉輪螺帽O環	NBR/VITON/EPDM
16	Impeller Nut 葉輪螺帽	FRPP/CFRPP CPVC/PVDF
18A	Front Cover 前蓋	FRPP/CFRPP CPVC/PVDF
19	Air Release Valve 排氣閥	FRPP/CFRPP CPVC/PVDF
20	Air Release Valve Packing 排氣閥墊片	NBR/VITON/EPDM
28	Otor Flange Packing 馬達前托橡膠墊片	NBR
29	Outlet Elbow 出口逆止彎頭	PP/PVC



所有本公司三相電源 All 3 phase pumps from Super have the pump shaft that eliminates 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.



Part5A 雙軸封

雙軸封設計可有效的解決在高壓停機回流，而產生的洩漏問題，同時可進一步阻隔腐蝕性氣體對馬達的腐蝕。Double seal overcomes the leakage due to overflow and stops the acid vapor to reach the motor.

Part8A 主體

採用一體射出成型，可以提高強度 Strong one piece construction Part8B 可換後蓋 可更換不同規格後蓋和葉輪而得到更高輸出功率 Various replaceable covers and impellers are available for different performance.

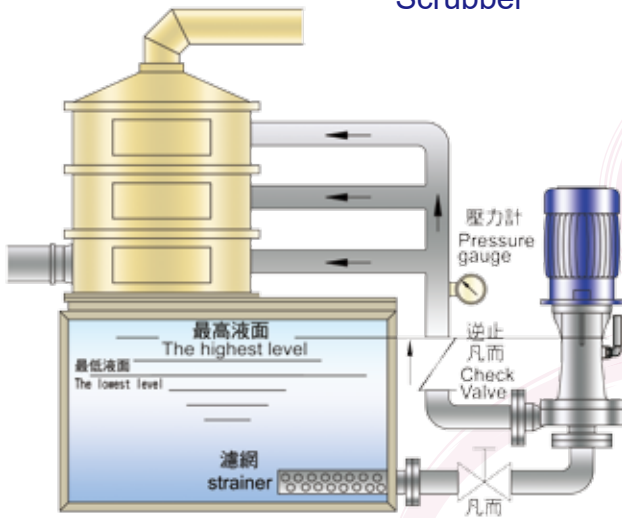
Part 11A 溢流接頭 將停機時溢流導回藥水槽 Lead the overflow to the tank while shutting down the pump.

出口逆止彎頭 出口逆止閥獨創設計防止溢流。 Outlet Elbow Outlet union prevent overflow.

Examples

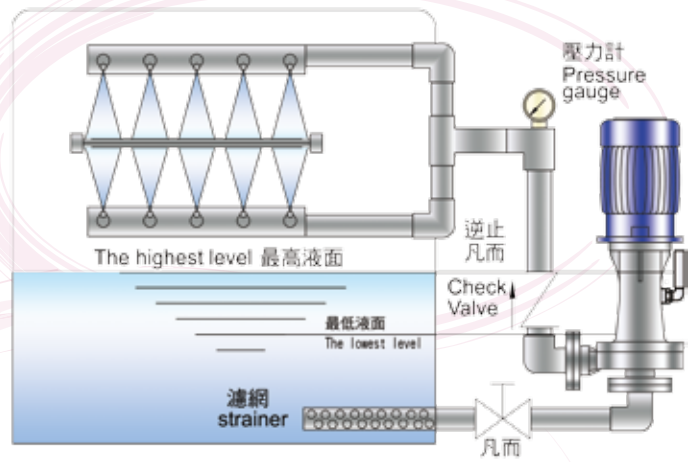
A

廢氣塔
Scrubber



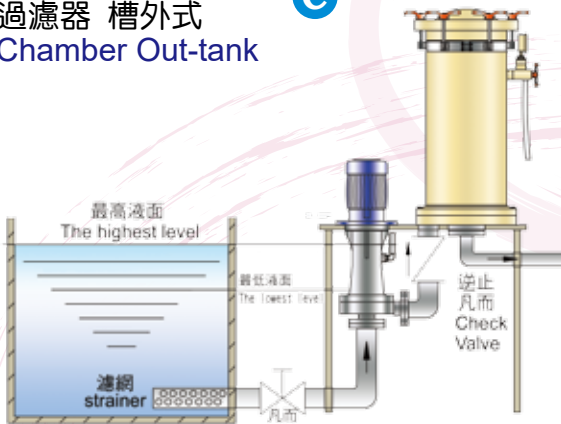
B

PCB 蝕刻
PCB Etching



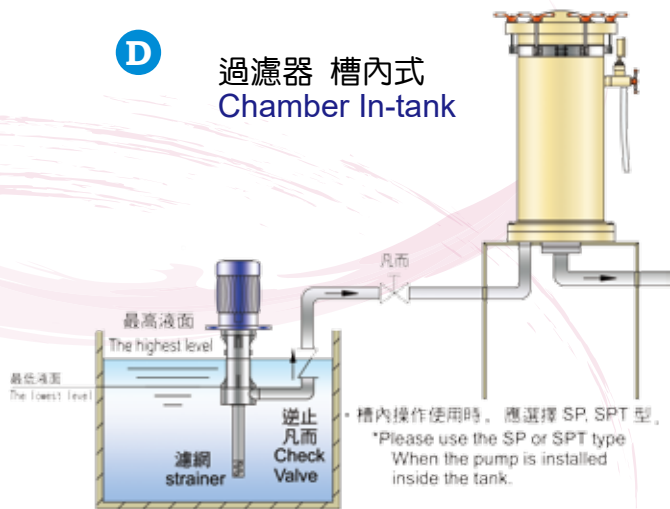
C

過濾器 槽外式
Chamber Out-tank



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

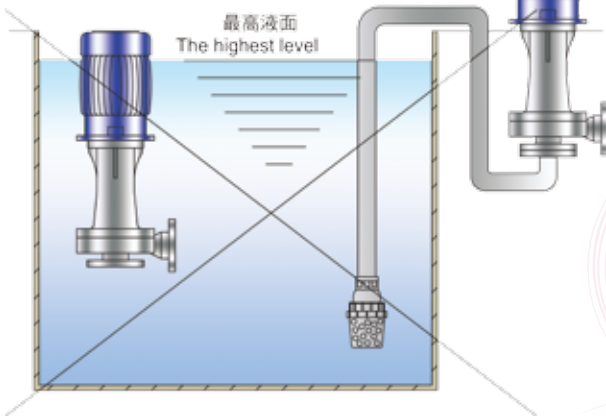
PP / PVC Tee Inlet Stainer



使用範例

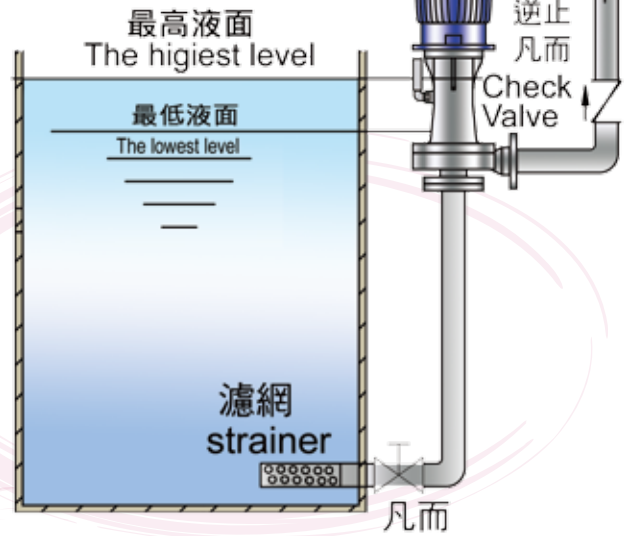
E

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



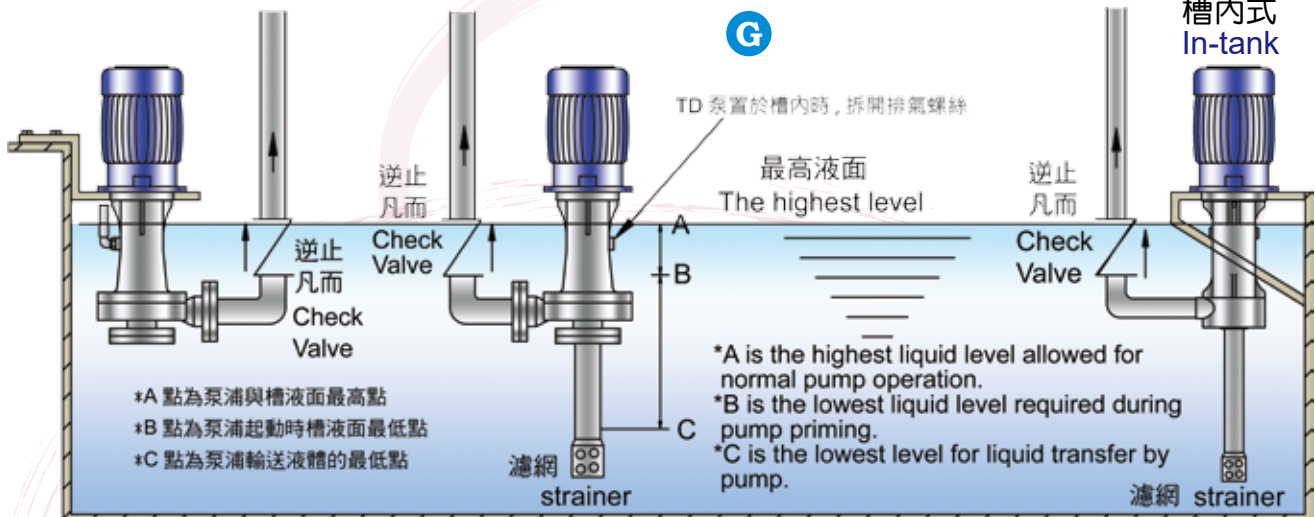
F

槽外式
Out-tank



G

槽內式
In-tank

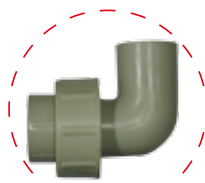


※ 濾網孔面積須大於管徑5倍以上

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.

昇展實業股份有限公司

SUPER GIANT ENTERPRISE CO., LTD.

台灣省台南市永康區中正南路404巷7號

TEL:(06) 253 - 4546

FAX:(06) 253 - 4226

詢問卡

日期： 年 月 日

公 司 名 稱					
地 址					
單 位		TEL		FAX	
姓 名		手機			
☐ 1.金屬製品製造廠		☐ 6.鋁陽極處理廠		☐ 11.染整廠	
☐ 2.金屬加工生產電鍍		☐ 7.電子PC版製造廠		☐ 12.製藥廠	
☐ 3.代工電鍍廠		☐ 8.電子半導體製造廠		☐ 13.其他	
☐ 4.塗裝設備製造商		☐ 9.電子零件加工廠		☐ 14.	
☐ 5.塗裝工廠		☐ 10.皮革廠		☐ 15.	
洽 詢 型 式 名 稱					
化 學 液	名 稱			濃度/比重	
	溫 度			黏 液	約 CPS
	雜 質	有() 無()		酸 鹼 度	約 PH=
運 轉 條 件	必要吐出量	約()l/min		需求揚程	M
	運轉時間	連續一日約 () 小時			
環 境	設置場所	屋 內 () 屋 外 ()			
	使用方法	移動式 () 固定配管 () 其他 ()			
	液體溫度	常 溫 () 溫 度 ()			
使 用 條 件	吸 入 口	液體比泵浦入口 高() 低()			
	配 管 徑				
	電 源	頻 率() 電 壓() 相()			
	其 他				



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

SUPER GIANT ENTERPRISE CO., LTD.
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Hang, Yung Kang, Tainan, Taiwan,
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Fax:886-6-2534226, 2420509
E-mail:super@superpump.tw
taichang@superpump.cn
singtown@superpump.cn
Website:http://superpump.tw
http://superpump.cn

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台灣省台南市永康區中正南路404巷7號
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塑寶環保機械
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53303398
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廣東區

廣東省增城市新塘鎮
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