



SUPER
塑寶牌

塑寶®

SG 型機械軸封泵浦

SELF-PRIMING CHEMICAL PUMPS



SUPER PUMPS

MODEL IDENTIFICATION

型號說明

SG - 40 02 2 - N H - C C H - 5 N
1 2 3 4 5 6 7 8 9 10 11

(1) Type機型編號
SG-泵體材質FRPP
SGP-泵體材質CFRPP
SGK-泵體材質PVDF

(2) In-Outlet出入口徑
40-1-1/2" 50-2"
75-3" 100-4"
125-5"

(3) Power馬力
01:1HP 02:2HP
03:3HP 05:5HP
07:7.5HP 10:10HP
15:15HP

(4) Pole 級數
02 : 2P

(5) Elastomer橡膠材質
N-NBR. E-EPDM.
V-VITON.

(6) Head揚程
H-High Head高揚程

(7) Fixed-Seal
固定環
C-Ceramic陶瓷
S-SSIC

(8) Rotational-seal轉動環
C-Carbon碳素 S-SSIC

(9) Bellows Spring彈簧
H-Hastelloy-C
S-SUS316

(10) Frequency頻率
5:50Hz
6:60Hz

(11) Model規格
N-Standard/標準規格
T-Titanium/鈦軸心

- 適用溫度：FRPP、CFRPP、PVDF 85°C以下，依各種化學性之不同而定。
- 適用化學性：選擇各種泵體材質，可耐強酸強鹼及用在氟化系列之化學性。
- 獨特的軸封設計：採用Teflon Bellows Seal自冷式，依各種化學性選擇軸封材質Sic, Carbon, Ceramic。
- 後封蓋為一體成型，組裝簡易，無冷卻循環迴路設計，不可空轉使用。
- 主體配件成本較低，容易組裝及維修。

- Solution temperature : FRPP, CFRPP, PVDF Under 85°C, depending on the chemicals.
- The applicability : It can withstand various chemicals depend on the material of pump.
- The unique seal : The seal is made of different materials, SIC, Carbon, Ceramic could be chose.
- SG series, several parts are combined into one brand-new rear cover. It lower the cost of pump head and parts, and makes it more easy to disassemble and repair. But it's easier to be damaged in dry running due to the lack of cycling-return system.

SPECIFICATIONS PERFORMANCE CHART

規格/性能曲線

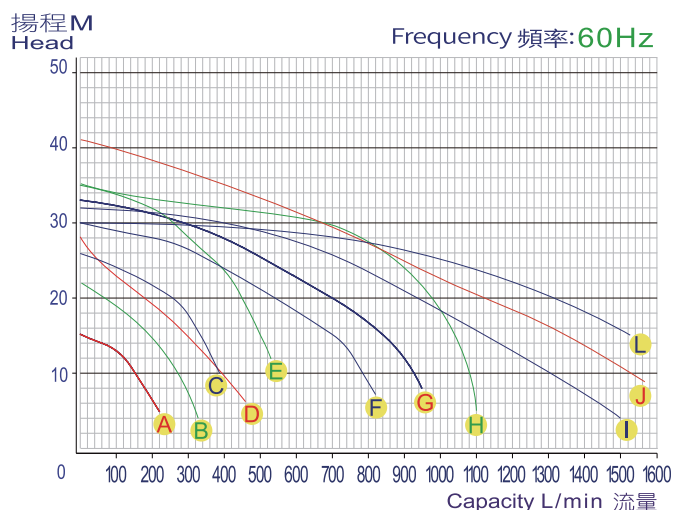
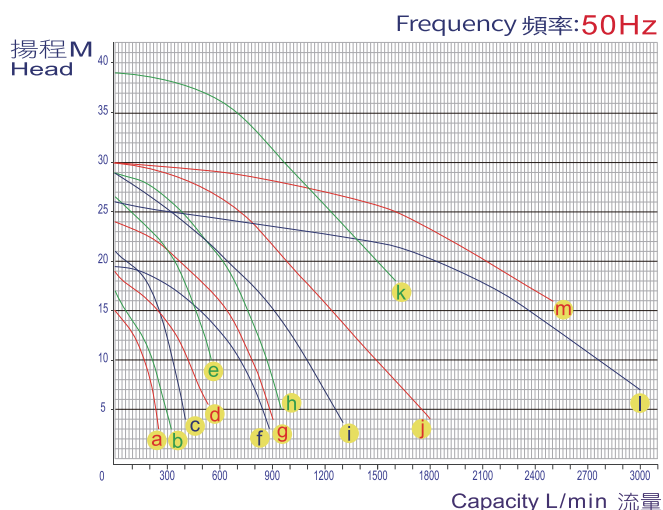
※ 重量/性能以實物為準

Weight / Performance Is For Reference Only Actual Product May Vary

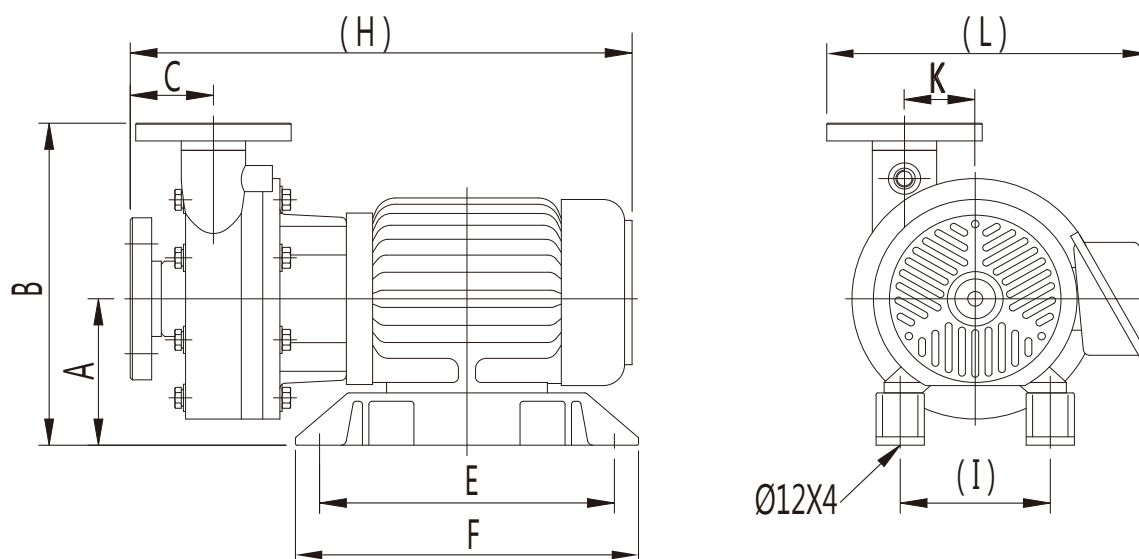
(測試流體：水 比重1.0)

Test Fluid : Water Sp.Gravity 1.0

型 式 Model	口徑In/Outlet(mm)		馬力 Power		50HZ			60HZ			重量kg(參考值) Weight
	入口 In	出口 Out	相數 Phase	HP	曲線 Curve	全揚程M Max.Head	全流量L/min Max.Flow	曲線 Curve	全揚程M Max.Head	全流量L/min Max.Flow	
40012	40	40	3ø	1	a	15	250	A	15	240	21
40022	40	40	3ø	2	b	17	320	B	22	330	30
40032	40	40	3ø	3	c	22	400	C	26	430	33
50032	50	50	3ø	3	d	19	530	D	28	460	34
50052	50	50	3ø	5	e	26.5	550	E	35	560	47
75052	75	75	3ø	5	f	19.5	880	F	30	850	49
75072	75	75	3ø	7-1/2	g	24	900	G	33	980	73
75102	75	75	3ø	10	h	29	950	H	35	1100	80
100102	100	100	3ø	10	i	29	1300	I	32	1500	81
100152	100	100	3ø	15	j	30	1800	J	41	1750	110
100152H	100	100	3ø	15	k	39	1600	K			
125152	125	125	3ø	15	l	26	3000	L	30	2000	112
125202	125	125	3ø	20	m	30	2500	M			



DIMENSIONS 外觀尺寸



※(高揚程)尺寸表尺寸表 H/L 會因電機品牌不同而改變
Dimension May Vary With Different Brand Motor

Unit:mm

MODEL	A	B	C	E	F	H	I	K	L
40012	130	298	70	280	330	425	130	66	300
40022	140	307	70	280	330	472	140	66	315
40032	140	310	70	280	330	500	160	66	315
50032	140	344	75	280	330	502	160	66	325
50052	162	360	75	330	375	530	188	66	355
75052	162	362	75	330	375	520	188	66	370
75072	185	387	75	330	375	565	216	66	425
75102	185	387	75	330	375	573	216	66	450
100102	185	400	75	330	375	577	216	66	450
100152	185	400	75	330	375	612	216	66	450
125152	185	405	85	330	375	625	216	66	450

MATERIAL 泵體材質



Various engineering plastic such as CFRPP.FRPP. PVDF. prevent most of chemicals corrosion, ensuring th eperfect performance in different operation conditions.

各種不同的工程塑膠如CFRPP·FRPP.PVDF·可承受大部份的化學藥品,確保了於不同操作情況下的完美性能。



CONSTRUCTION

零件圖表

1 馬達 Motor  FC/Alu(2Pole)	1A 軸心甩圈 Oil-Seal  NBR / EPT VITON / HV	2 接合座 Connected Seat  FRPP(2Pole)	3A 後封蓋 Rear cover  FRPP/CFRPP /PVDF	4 後蓋O環 Rear Cover O-ring  NBR / EPT VITON / HV	5A 軸套 Shaft Sleeve  TEFLON	6 主體前蓋 Front Cover  FRPP/CFRPP /PVDF	6-1 前排氣閥 Front Release Valve  FRPP/CFRPP /PVDF	6-2 前排氣閥墊片 Front Release Valve Gasket  NBR / EPT VITON / HV	7 可拆式軸封護罩 Seal Cover  FRPP/CFRPP CPVC/PVDF	
7A 一體式軸封護罩 Seal Cover  FRPP/CFRPP /PVDF	7-1 軸封護罩O環 Seal Cover O-ring  NBR / EPT VITON / HV	8 固定環座 Fixed-seal Socket  FRPP/CFRPP CPVC/PVDF	8-1 固定環座O環 Fixed-seal Socket O-ring  NBR / EPT VITON / HV (每套兩X2)	9 前軸封 Bellows-seal combination  CARBON SILICON	9-1 轉動環 Rotational-seal  CARBON SILICON	9-2 伸縮環 Bellows  HASTELLOY-C SUS316	9-3 彈簧 Bellows Spring  HASTELLOY-C SUS316	9-4 伸縮環前O環 Bellows Front O-ring  NBR / EPT VITON / HV	9-5 伸縮環墊片 Bellows Packing  NBR / EPT VITON / HV	9-6 伸縮環後O環 Bellows Rear O-ring  NBR / EPT VITON / HV
10 可拆式固定環 Fixed-seal  CERAMIC SSIC	10A 一體式固定環 Fixed-seal  CERAMIC SSIC	10A-1 一體式固定環後O環 Fixed-Seal Rear O-ring  NBR / EPT VITON / HV	10A-2 一體式固定環側O環 Fixed-Seal Side O-ring  NBR / EPT VITON / HV	10-1 固定環後O環 Fixed-Seal Rear O-ring  NBR / EPT VITON / HV	10-2 固定環側O環 Fixed-Seal Side O-ring  NBR / EPT VITON / HV	11 葉輪 Impeller  FRPP/CFRPP /PVDF	12 葉輪螺絲 Impeller Screw  FRPP/CFRPP /PVDF	12-1 葉輪螺絲O環 Impeller Screw O-ring  NBR / EPT VITON / HV	19A 腳架 Base  FRPP	

SG - 50 01 4 - N L - C C H - 5 N
1 2 3 4 5 6 7 8 9 10 11

- | | | |
|--|--|---|
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04 : 4P | (9) Bellows Spring彈簧
H-Hastelloy-C
S-SUS316 |
| (2) In-Outlet出入口徑
50 - 2" 75-3"
100 - 4"
125-5" | (5) Elastomer橡膠材質
N-NBR. E-EPDM.
V-VITON. | (10) Frequency頻率
5:50Hz
6:60Hz |
| (3) Power馬力
01 : 1HP
02 : 2HP
03 : 3HP | (6) Head揚程
L-Low Head低揚程 | (11) Model規格
N-Standard/標準規格
T-Titanium/鈦軸心 |
| | (7) Fixed-Seal
固定環
C- Ceramic陶瓷
S- SSIC | |
| | (8) Rotational-seal轉動環
C-Carbon碳素
S-SSIC | |

- 適用溫度：FRPP、CFRPP、PVDF 85°C以下，依各種化學性之不同而定。
- 低揚程大流量機型，馬力小流量大。
- 適用化學性：選擇各種泵體材質，可耐強酸強鹼及用在氟化系列之化學性。
- 獨特的軸封設計：採用Teflon Bellows Seal自冷式，依各種化學性選擇軸封材質Sic, Carbon, Ceramic。
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SPECIFICATIONS PERFORMANCE CHART

規格/性能曲線

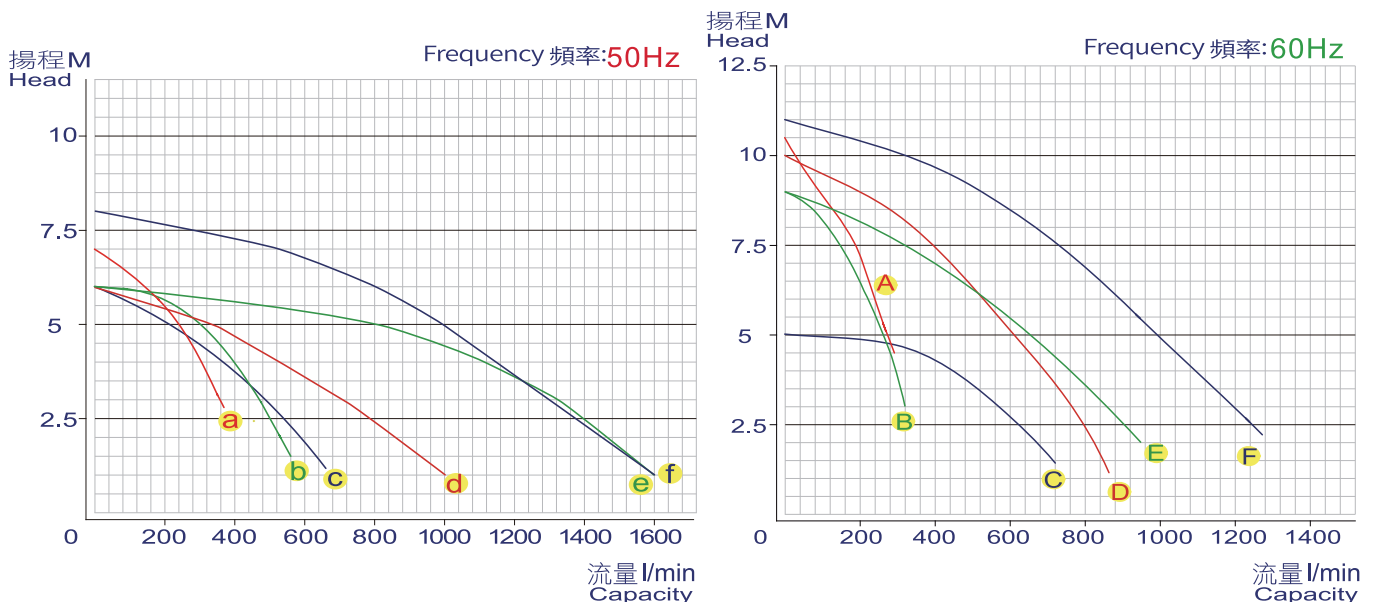
※ 重量/性能以實物為準

Weight / Performance Is For Reference Only Actual Product May Vary

(測試流體：水 比重1.0)

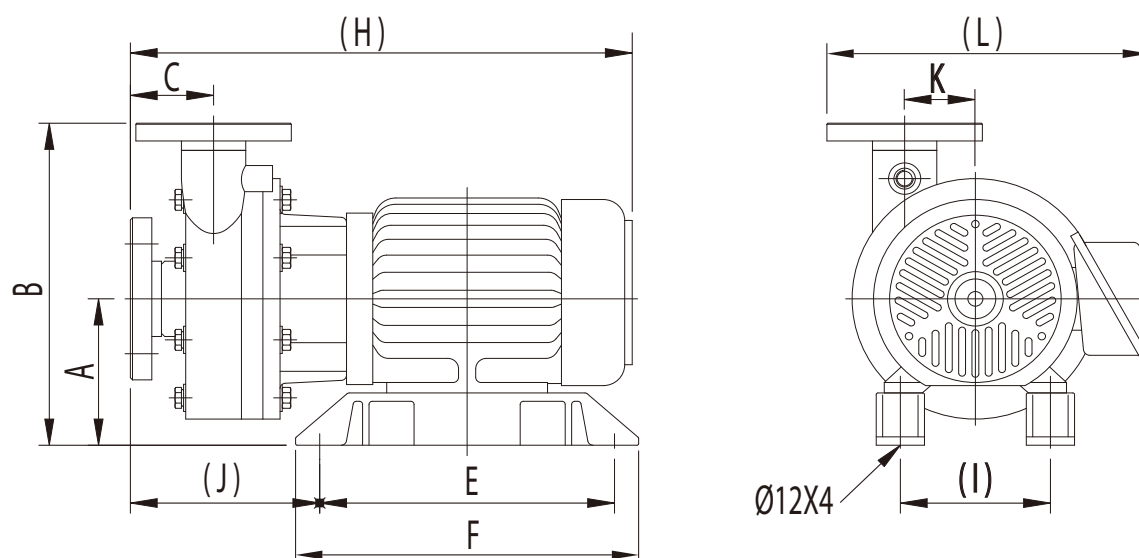
Test Fluid : Water Sp.Gravity 1.0

型 式 Model	口徑In/Outlet(mm)		馬力Power		極數 Po le	50HZ			60HZ			重量kg(參考值) Weight
	入口 In	出口 Out	相數Phase	HP		曲線 Curve	全揚程M Max.Head	全流量L/min Max.Flow	曲線 Curve	全揚程M Max.Head	全流量L/min Max.Flow	
50014	50	50	3ø	1	4	a	7	370	A	11	285	34
75014	75	75	3ø	1	4	b	6	560	B	9	320	34
100014	100	100	3ø	2	4	c	6	660	C	5	720	34
100024	100	100	3ø	2	4	d	6	1000	D	10	865	40
125024	125	125	3ø	2	4	e	6	1600	E	9	950	41
125034	125	125	3ø	3	4	f	8	1600	F	11	1270	45



DIMENSIONS

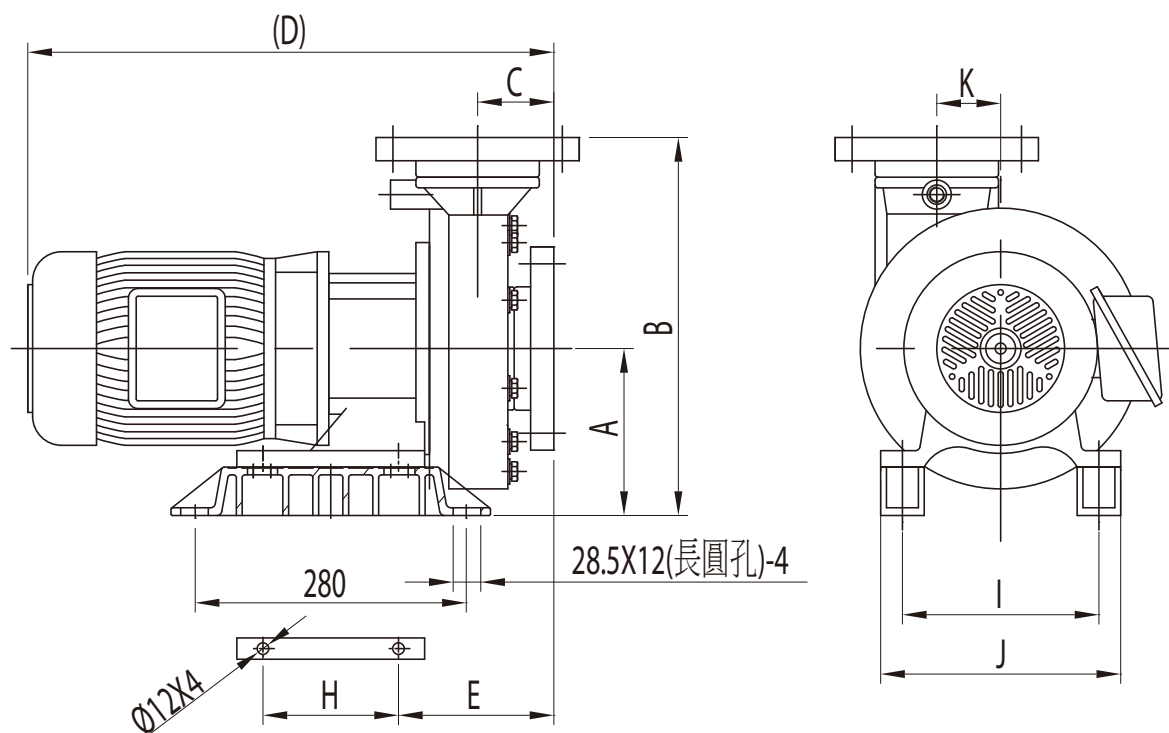
外觀尺寸



※(低揚程)尺寸表尺寸表 H/L 會因電機品牌不同而改變
Dimension May Vary With Different Brand Motor

Unit:mm

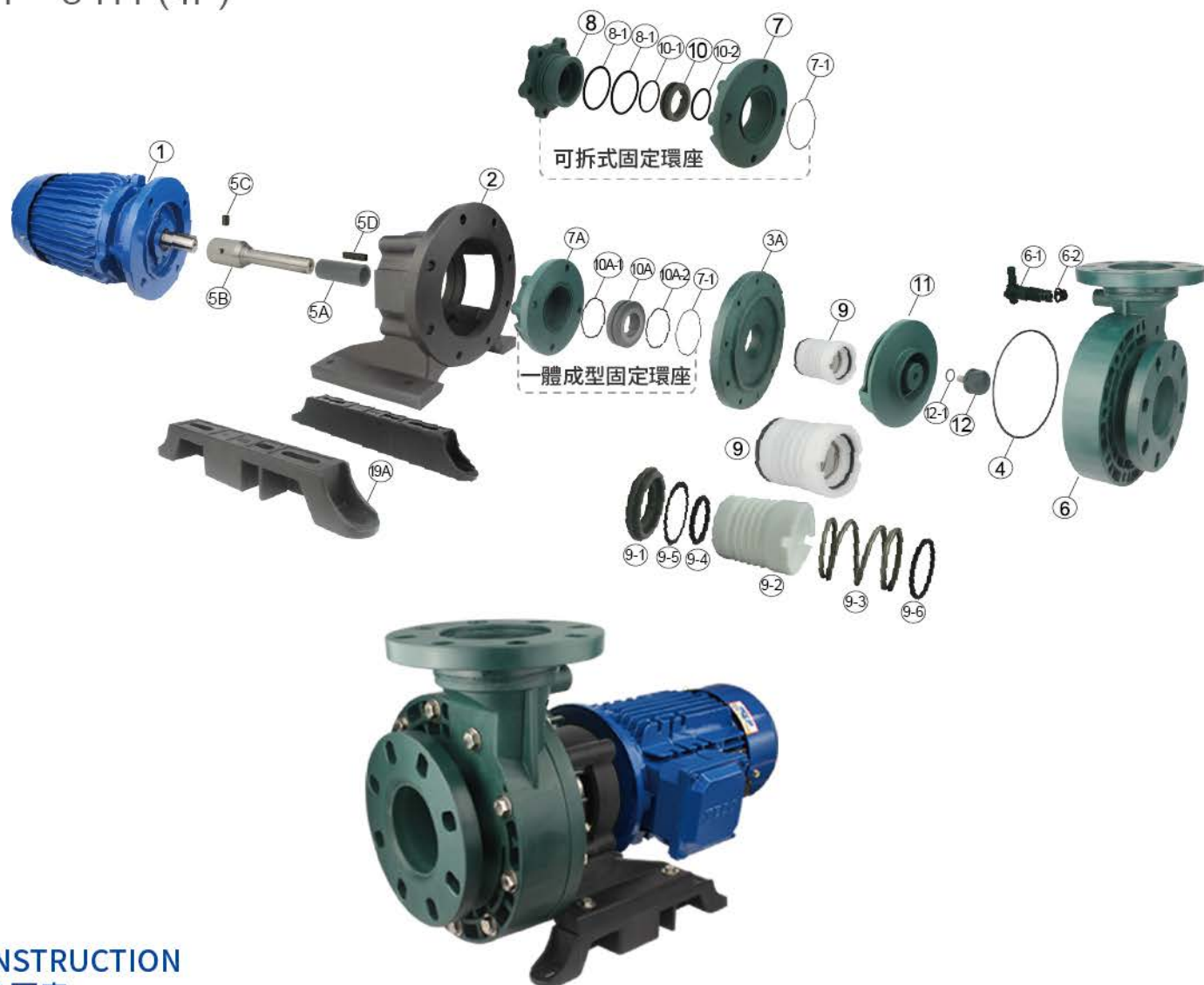
MODEL	A	B	C	E	F	H	I	J	K	L
50014	140	340	75	280	330	438	125	191	66	348
75014	140	340	75	280	330	438	125	191	66	348



※(低揚程)尺寸表尺寸表 H/L 會因電機品牌不同而改變
Dimension May Vary With Different Brand Motor

Unit:mm

MODEL	A	B	C	D	E	H	I	J	K
100014	175	390	75	480	160	140	204	250	66
100024	175	390	75	580	160	140	204	250	66
125024	175	402	85	570	170	140	204	250	66
125034	175	402	85	570	170	140	204	250	66



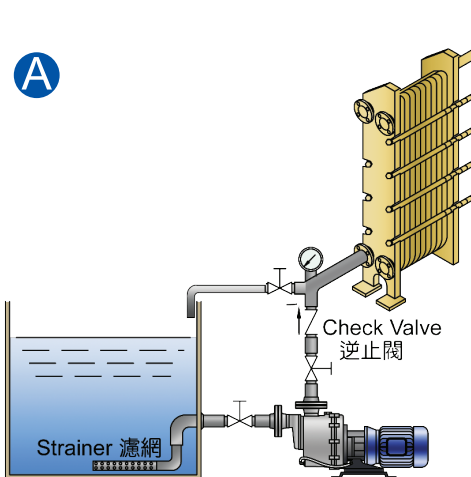
CONSTRUCTION

零件圖表

1 馬達 Motor  FC/Alu(4Pole)	2 腳座 Frame  FRPP(4Pole)	3A 後封蓋 Rear cover  FRPP/CFRPP /PVDF	4 後蓋O環 Rear Cover O-ring  NBR / EPT VITON / HV	5A 軸套 Shaft Sleeve  TEFLON	5B 軸心 Shaft  SUS/TI	5C 軸心固定螺絲 Shaft Screw  SUS	5D 葉輪鍵 Impeller Pin  SUS	6 主體前蓋 Front Cover  FRPP/CFRPP /PVDF	6-1 前排氣閥 Front Release Valve  FRPP/CFRPP /PVDF	6-2 前排氣閥墊片 Front Release Valve Gasket  NBR / EPT VITON / HV
7 可拆式軸封護罩 Seal Cover  FRPP/CFRPP CPVC/PVDF	7A 一體式軸封護罩 Seal Cover  FRPP/CFRPP /PVDF	7-1 軸封護罩O環 Seal Cover O-ring  NBR / EPT VITON / HV	8 固定環座 Fixed-seal Socket  FRPP/CFRPP CPVC/PVDF	8-1 固定環座O環 Fixed-seal Socket O-ring  NBR / EPT VITON / HV (每套兩X2)	9 前軸封 Bellows-seal combination  CARBON SSIC	9-1 轉動環 Rotational-seal  TEFLON	9-2 伸縮環 Bellows  HASTELLOY-C SUS316	9-3 彈簧 Bellows Spring  NBR / EPT VITON	9-4 伸縮環前O環 Bellows Front O-ring  NBR / EPT VITON	9-5 伸縮環墊片 Bellows Packing  NBR / EPT VITON / HV
9-6 伸縮環後O環 Bellows Rear O-ring  NBR / EPT VITON / HV	10 可拆式固定環 Fixed-seal  CERAMIC SSIC	10A 一體式固定環 Fixed-seal  CERAMIC SSIC	10A-1 一體式固定環後O環 Fixed-Seal Rear O-ring  NBR / EPT VITON / HV	10A-2 一體式固定環側O環 Fixed-Seal Side O-ring  NBR / EPT VITON / HV	10-1 固定環後O環 Fixed-Seal Rear O-ring  NBR / EPT VITON / HV	10-2 固定環側O環 Fixed-Seal Side O-ring  NBR / EPT VITON / HV	11 葉輪 Impeller  FRPP/CFRPP /PVDF	12 葉輪螺絲 Impeller Screw  FRPP/CFRPP /PVDF	12-1 葉輪螺絲O環 Impeller Screw O-ring  NBR / EPT VITON / HV	19A 腳架 Base  FRPP

EXAMPLES 應用範例

A

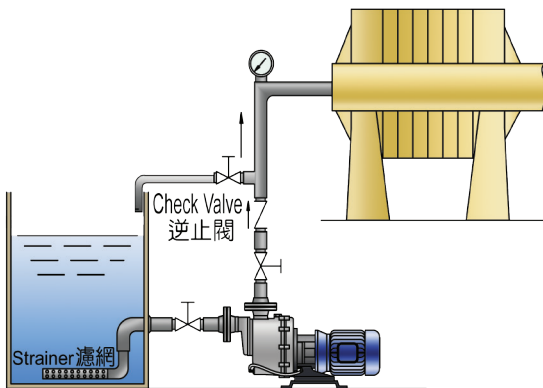


Example A

1. While applied to heat-exchanger, install a pressure gauge at the outlet to make sure no clog inside the pipeline.
2. Install a strainer at the inlet to stop articles or objects entering the pump. It also cut down the bubbles.
3. Install valves at the inlet and outlet for easy maintenance.
4. The diameter of each hole in the strainer should be approximately 5~7mm and the total mesh area of the strainer should be 5~10 times the area of the inlet.
It's better to enlarge the inlet pipeline. For example, enlarged 2-1/2" inlet pipeline could drop the resistance loss.
5. Set an overflow piping at the outlet pipeline and keep constantly opened to allow little overflow

1. 當應用於熱交換器時，於出口加裝壓力錶，以確定管路中有沒有阻塞。
2. 於入口加裝濾網，以阻止外物進入泵浦，也會減少氣泡的出現。
3. 於出入口的管路中加裝閥門，以便維護。
4. 濾網網孔的直徑應為約5~7mm，且濾網孔的面積應為入口管徑之5~10倍，入口管路最好加大管徑，如泵入口為2"，改配2-1/2"入口管，預防吸入量的不足。
5. 出水口配有回流管，正常開啟閥門，少量回流。

B

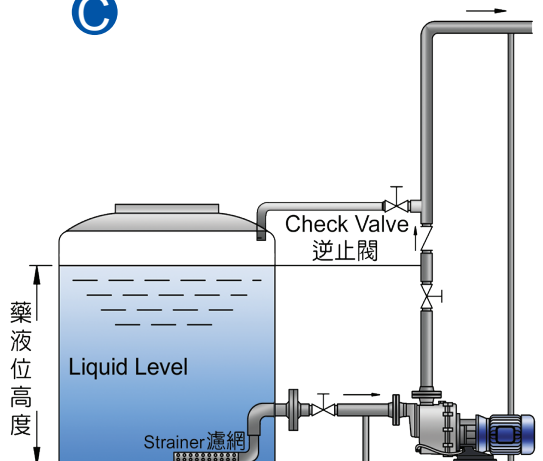


Example B

1. In order to monitor the flow and to detect possible clog of the filter, please set a pressure gauge at the outlet.
2. To eliminate damage caused by dry-running, please install a pressure safety shutoff.
3. Please clean up particles in the pump after operation.
4. Strainer is easy to be clogged. Clean it as usual.
5. The diameter of each hole in the strainer should be approximately 5~7mm and the total mesh area of the strainer should be 5~10 times the area of the inlet.
It's better to enlarge the inlet pipeline. For example, enlarged 2-1/2" inlet pipeline could drop the resistance loss.
6. Install valves at the inlet and outlet for easy maintenance.
7. Set an overflow piping at the outlet pipeline and keep constantly opened to allow little overflow.

1. 為了監視液體流動及偵測過濾機中可能的阻塞，請於出口加裝壓力錶。
2. 請加裝壓力保護斷電器以避免因空轉損壞。
3. 操作完畢，請清除泵浦中的外來物。
4. 注意入口濾網容易受阻塞，應時常清洗。
5. 濾網網孔的直徑應為約5~7mm，且濾網孔的面積應為入口之5~10倍，入口管路最好加大管徑，如泵入口為2"，改配2-1/2"入口管，預防吸入量的不足。
6. 於出入口的管路中加裝閥門，以便維護。
7. 出水口配有回流管，正常開啟閥門，少量回流。

C

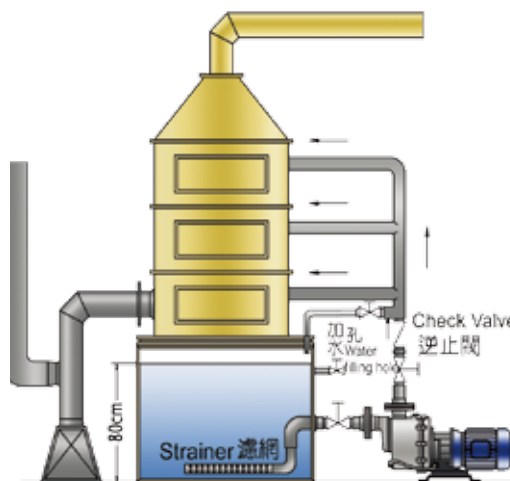


Example C

1. While applied to pump chemicals from the storage tank, please have a valve set at the inlet for the safety and convenience during maintenance.
2. Please monitor the level of the liquid in the tank to avoid dry-running.
3. Without check lid model is recommended.
4. Please install a check valve at the outlet while the height of piping exceeds 8M. It's better to enlarge the inlet pipeline. For example, enlarged 2-1/2" inlet pipeline could drop the resistance loss.
5. Please fasten in-outlet piping perfectly.
6. The motor shield must be applied while the pump is installed outdoors or in harsh conditions.
7. Set an overflow piping at the outlet pipeline and keep constantly opened to allow little overflow

1. 當應用於抽送儲存槽中之化學藥水時，請於入口加裝閥門，以維安全及維護上之便利。
2. 請監視槽內液體高度，以避免空轉。
3. 建議採用無單向閥機型。
4. 當配管高度大於8米時請於出口加裝逆止閥，逆止閥應高於液位以上，入口管路最好加大管徑，如泵入口為2"，改配2-1/2"入口管，以防吸入量的不足。
5. 請將出入口管線固定好。
6. 當泵浦裝於戶外或惡劣環境中，馬達必需加蓋護罩。
7. 出水口配有回流管，正常開啟閥門，少量回流。

D

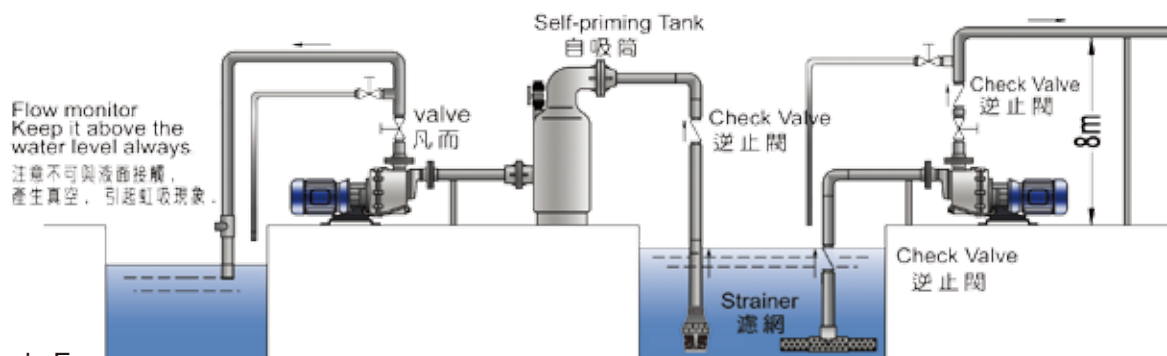


Example D

1. While applied to waste gas treatment tower, the tank should be large enough and the water-level in the tank should exceeds the inlet 80cm.
2. In order to avoid foreign particles clogging the inlet, please lower the inlet and install a strainer. (Mesh diameter approximately 5~7mm and the total mesh area of the strainer should be 5~10 times the area of the inlet.) It's better to enlarge the inlet pipeline. For example, enlarged 2-1/2" inlet pipeline could drop the resistance loss.
3. It should be easy to remove the strainer from the inlet for cleaning.
4. To avoid running out of liquid, please make sure that the water supplying system functions well.
5. To prevent the pump from dry running, please install a safety shutoff.
6. The motor shield must be applied while the pump is installed outdoors or in harsh conditions.
7. Install valves at the inlet and outlet for easy maintenance.
8. Set an overflow piping at the outlet pipeline and keep constantly opened to allow little overflow.

1. 當應用於廢氣塔時，水槽應夠大，且槽中水位應高於入口濾網80公分。
2. 為了避免外物阻塞入口，請降低入口並要裝濾網（網孔孔徑約5~7mm，且濾網孔的面積應為入口管徑之5~10倍）入口管路最好加大管徑，如泵入口為2"，改配2-1/2"入口管，預防吸入量的不足。
3. 入口濾網應易於取下清洗。
4. 請確認供水系統功能良好，以避免無水運轉（加裝自動補水系統）。
5. 請加裝保護斷電器，以防止泵浦空轉。
6. 當泵浦裝於戶外或惡劣環境中，馬達必需加蓋護罩。
7. 於出入口的管路中加裝閥門，以便維護。
8. 出水口配有回流管，正常開啟閥門，少量回流。

E



Example E

1. To stop articles or objects entering the pump, install a foot valve or strainer.
2. To prevent the inlet from sucking in bubble, please keep liquid level at least 30cm above the strainer.
3. Check valve must be installed if the height of piping exceeds 8M.
4. To avoid dry-running, please install a safety shutoff.
5. For the safety of repair, the valve must be installed at the outlet.
6. 3" in/outlet models cannot do self-priming well. Install a self-priming tank to get it.
7. In order to avoid foreign particles clogging the inlet, please lower the inlet and install a strainer. (Mesh diameter approximately 5~7mm and the total mesh area of the strainer should be 5~10 times the area of the inlet.) It's better to enlarge the inlet pipeline. For example, enlarged 2-1/2" inlet pipeline could drop the resistance loss.
8. If the head of the outlet too high or the long transfer distance and the pressure losing orve 1KG we suggest that install the outlet tee hose for backflow to tube. This can avoid the pressure of the backflow and the hot air can be exhausted will diminish the damage.
9. Set an overflow piping at the outlet pipeline and keep constantly opened to allow little overflow.

1. 加裝底閥或濾網，以防止外物進入泵浦。
2. 請保持液位最少高於入口濾網 30cm 以上，以防止吸入氣泡。
3. 當配管高度大於 8 米時，必需加裝逆止閥。
4. 請加裝保護斷電器，以防止泵浦空轉。
5. 為了維修安全，出口必需加裝閥門。
6. 出入口為 3" 之機型無自吸能力，請加裝自吸桶以獲得自吸能力。
7. 為了避免外物阻塞入口，請降低入口並要裝濾網（網孔孔徑約5~7mm，且濾網孔的面積應為入口管徑之5~10倍）。入口管路最好加大管徑，如泵入口為2"，改配2-1/2"入口管，預防吸入量的不足。
8. 出口揚程高或輸送距離較長，壓損超過1kg以上的使用場所建議在原出口加裝三通回流管，來防止反壓及熱氣排放減少損壞。
9. 出水口配有回流管，正常開啟閥門，少量回流。
※如安裝二台泵浦，不能共用入口管路



總公司

昇展實業股份有限公司

台灣省台南市永康區中正南路404巷7號

Tel: 886-6-2534546, 2541601

Fax: 886-6-2534226, 2420509

SUPER GIANT ENTERPRISE CO., LTD.
No. 7, Lane 404, Chung Cheng South Road, Yen
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