



SUPER
塑寶牌

塑寶®

耐酸鹼化學自吸式
SN型機械軸封泵浦

SELF-PRIMING CHEMICAL PUMPS



SUPER PUMPS

MODEL IDENTIFICATION

型號說明

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

(1) Type機型編號
SN-泵體材質FRPP
SNP-泵體材質CFRPP
SNK-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
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
L-Low Head低揚程
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，FRPP、CFRPP、PVDF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。
- 主體配件成本較低，容易組裝及維修。
- 連接式設計，可方便客戶馬達維修之便利。
- Solution temperature : FRPP, CFRPP, PVDF Under 85°C, depending on the chemicals.
- The applicability : It can withstand FRPP, CFRPP, PVDF 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.

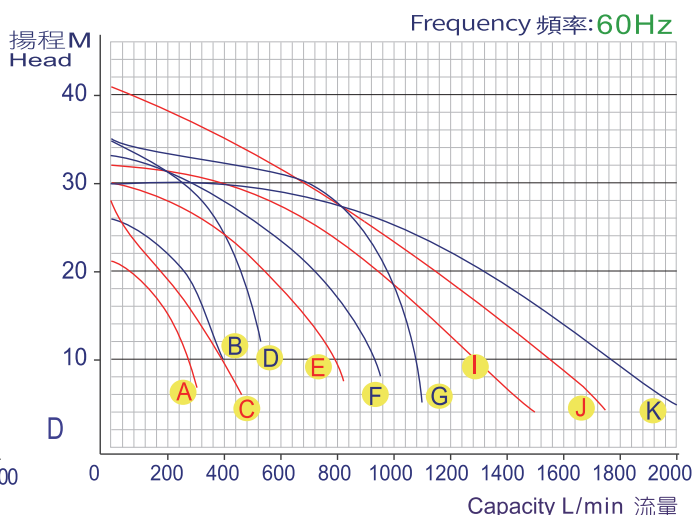
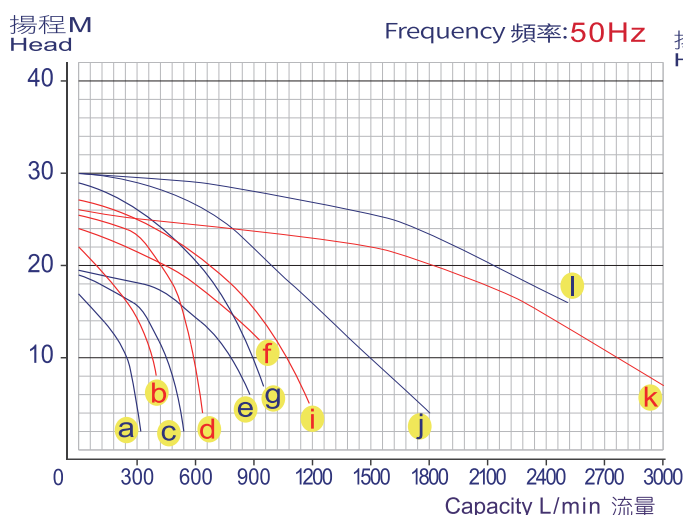
SPECIFICATIONS PERFORMANCE CHART

規格/性能曲線

Weight / Performance Is For Reference Only Actual Product May Vary
※ 重量/性能以實物為準

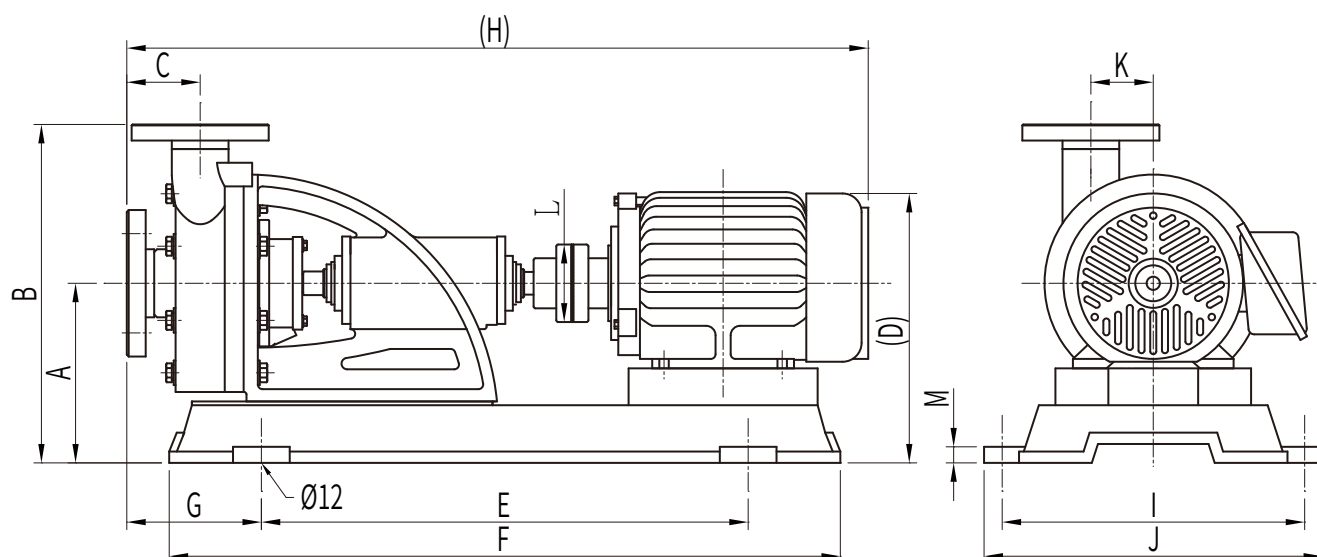
Test Fluid : Water Sp.Gravity 1.0
(測試流體：水 比重1.0)

規格	進出口徑 (mm)	馬力	50Hz			60Hz			重量 kg
		HP	曲線	全揚程 M	全流量 L/min	曲線	全揚程 M	全流量 L/min	
40022	40x40	2	a	17	320	A	21	300	70
40032	40x40	3	b	22	400	B	26	430	76
50032	50x50	3	c	19	530	C	28	460	80
50052	50x50	5	d	25.5	635	D	35	560	93
75052	75x75	5	e	19.5	880	E	30	850	96
75072	75x75	7-1/2	f	24	930	F	33	980	112
75102	75x75	10	g	29	950	G	35	1100	122
100102	100x100	10	i	27.5	1180	I	32	1500	125
100152	100x100	15	j	30	1800	J	41	1750	153
125152	125x125	15	k	26	3000	K	30	2000	155
125202	125x125	20	l	30	2500	L			



DIMENSIONS

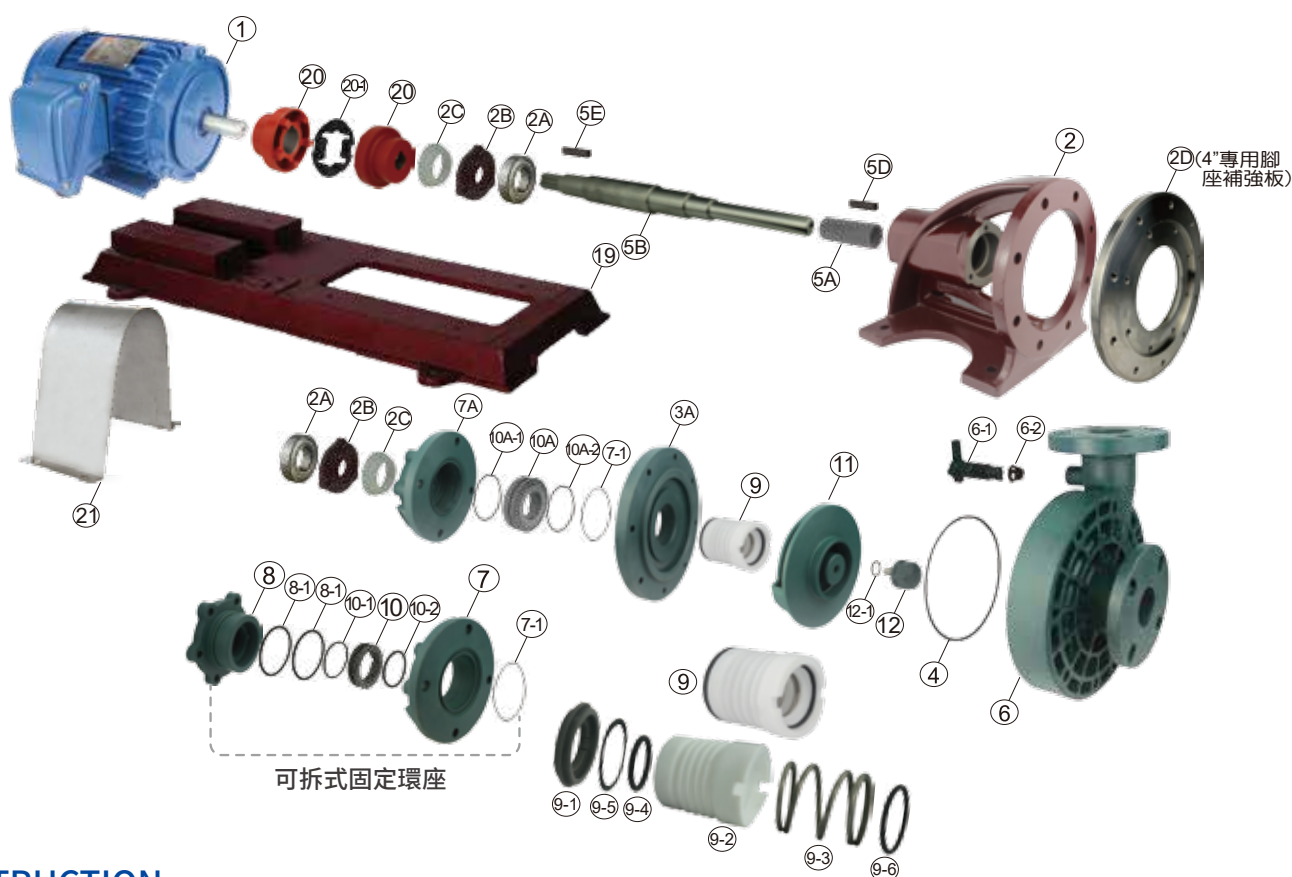
外觀尺寸



※(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	D	E	F	G	H	I	J	K	L	M
40022	200	400	73	295	520	710	190	850	320	360	66	82	18
40032	200	400	73	295	520	710	190	850	320	360	66	82	18
50032	200	400	73	295	520	710	190	850	320	360	66	82	18
50052	200	405	73	310	525	710	190	850	320	360	66	82	18
75052	200	405	73	310	525	710	190	850	320	360	66	82	18
75072	200	400	73	330	585	780	178	945	320	360	66	97	18
75102	200	400	73	335	585	780	194	958	320	360	66	97	18
100102	201	417	77	335	585	780	217	980	320	360	66	97	18
100152	260	476	77	427	800	1000	150	1116	260	300	66	97	8
125152	260	476	77	427	800	1000	150	1116	260	300	66	97	8



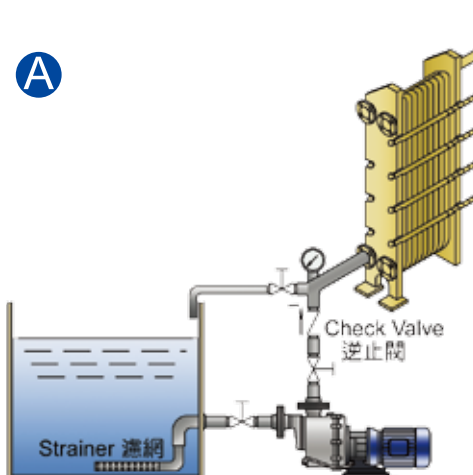
CONSTRUCTION

零件圖表

1 馬達 Motor  FC	2 腳座 Frame  FC	2A 腳座軸承 Frame Bearing  STEEL	2B 軸承防塵蓋 Bearing Dust Shield  FC	2C 軸承防水套 Bearing Liquid Shield  PP	2D 腳座補強板 Reinforcing plate (4")  SUS	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/ТИ	5D 葉輪鍵 Impeller Pin  SUS
5E 連軸器鍵 Impeller Pin  SUS	6 主體前蓋 Front Cover  FRPP/CFRPP /PVDF	6-1 前排氣閥 Front Release Valve  FRPP/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 (每台兩X2)	9 前軸封 Bellows-seal combination  FRPP/CFRPP CPVC/PVDF	9-1 轉動環 Rotational-seal  CARBON SSIC
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 可拆式固定環後O環 Fixed-Seal Rear O-ring  NBR / EPT VITON / HV	10-2 可拆式固定環側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 CPVC/PVDF	12-1 葉輪螺絲O環 Impeller Screw O-ring  NBR / EPT VITON / HV	19 SN底座 Base for SL  FC	20 連軸器 Coupling  FC	20-1 連軸器橡膠 Coupling Elastomer  NBR	21 連軸器護罩 Coupling Shield  SUS				

EXAMPLES 應用範例

A

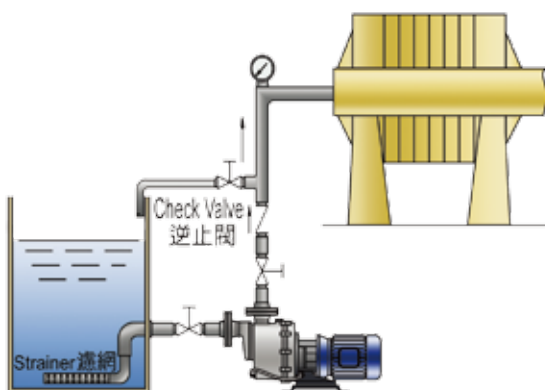


Example A

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

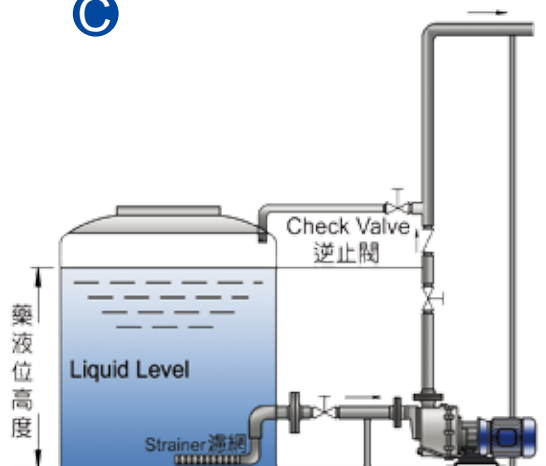


Example B

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

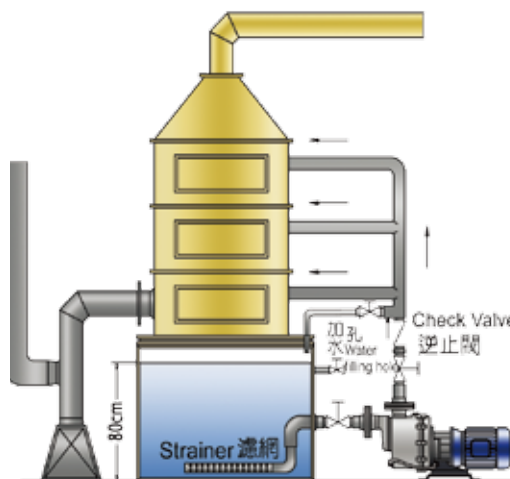


Example C

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

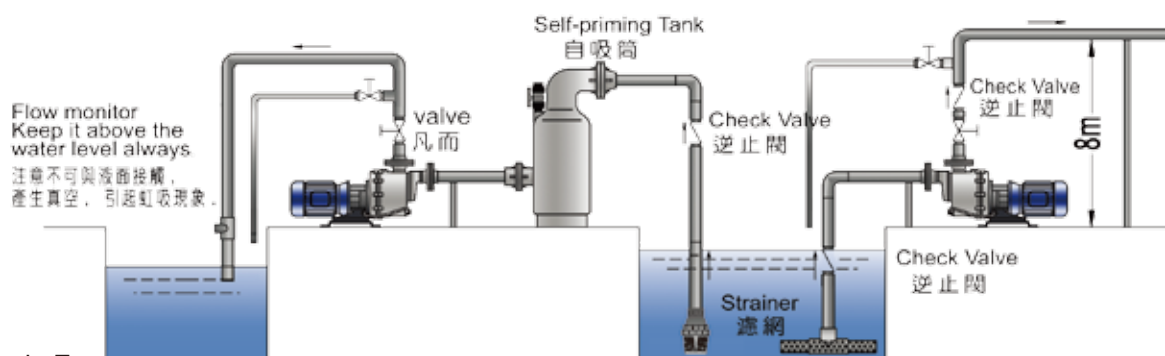


Example D

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 or over 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



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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