



宏旭

HORNG SHIUH

橫軸式

離心渦卷泵浦

HORIZONTAL CENTRIFUGAL

VOLUTE PUMP



FSBL

說明

宏旭牌FSBL系列渦卷泵浦，揚程、流量涵蓋範圍廣。

機組採背拉式設計，維修極為方便。

生產工廠備有三角堰流量測試設備，其動力可至500HP，以及噪音、振動等量測儀器。

本產品出廠前均經嚴格的品管，確保泵浦優良的品質。

Introduction

The HORNG SHIUH FSBL series volute pumps are suitable for a wide range in aspects of head and flow rate.

The model is designed in the back-pull-out type for easier maintenance.

The factory is also provided with Triangular Weir test equipment configured with a capacity up to 500HP as well as noise and vibration measuring instrument.

In this way, all products are tested under strict quality control process to ensure the excellent quality of the pump and to satisfy customer demand.

用途

- 高樓給水
- 消防給水
- 污水處理設備
- 鍋爐給水
- 一般工業用水
- 土木施工用水
- 農藝灌溉用水

Application

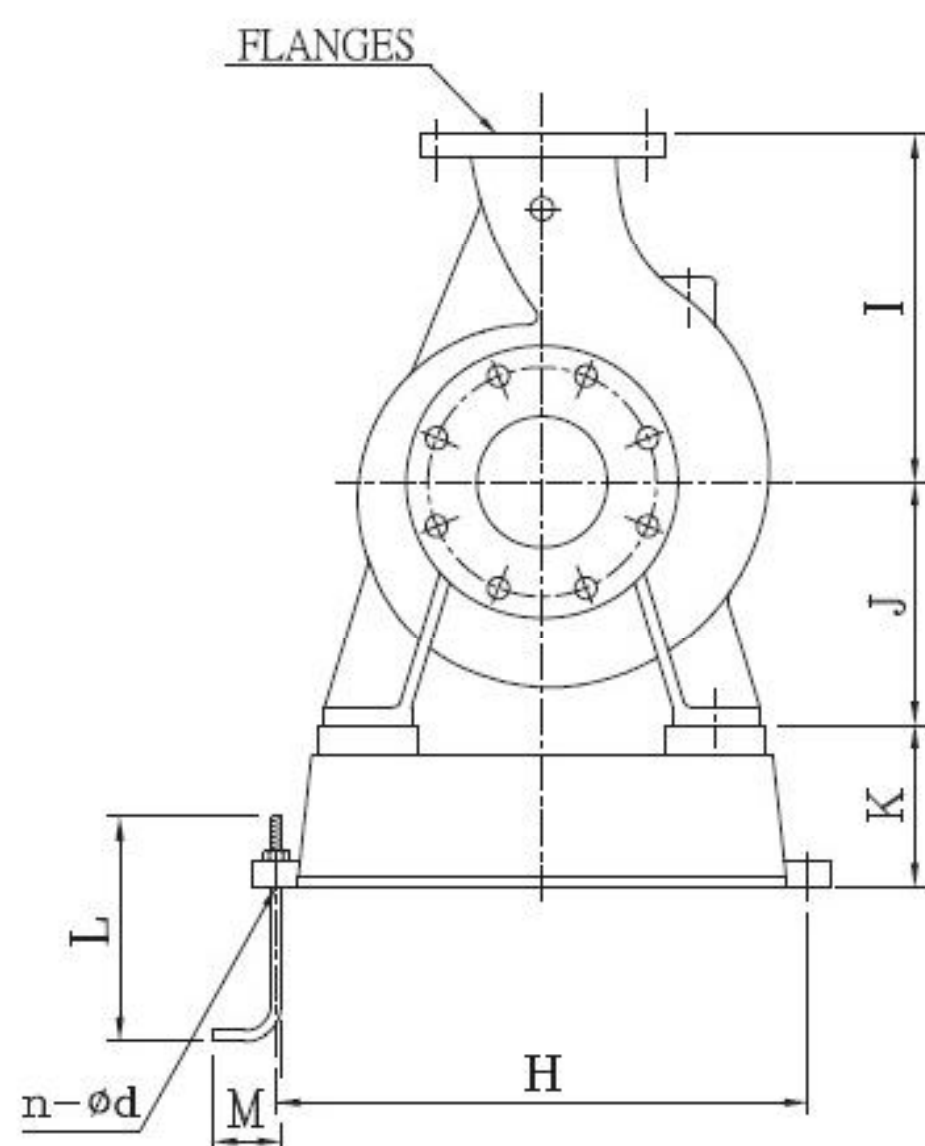
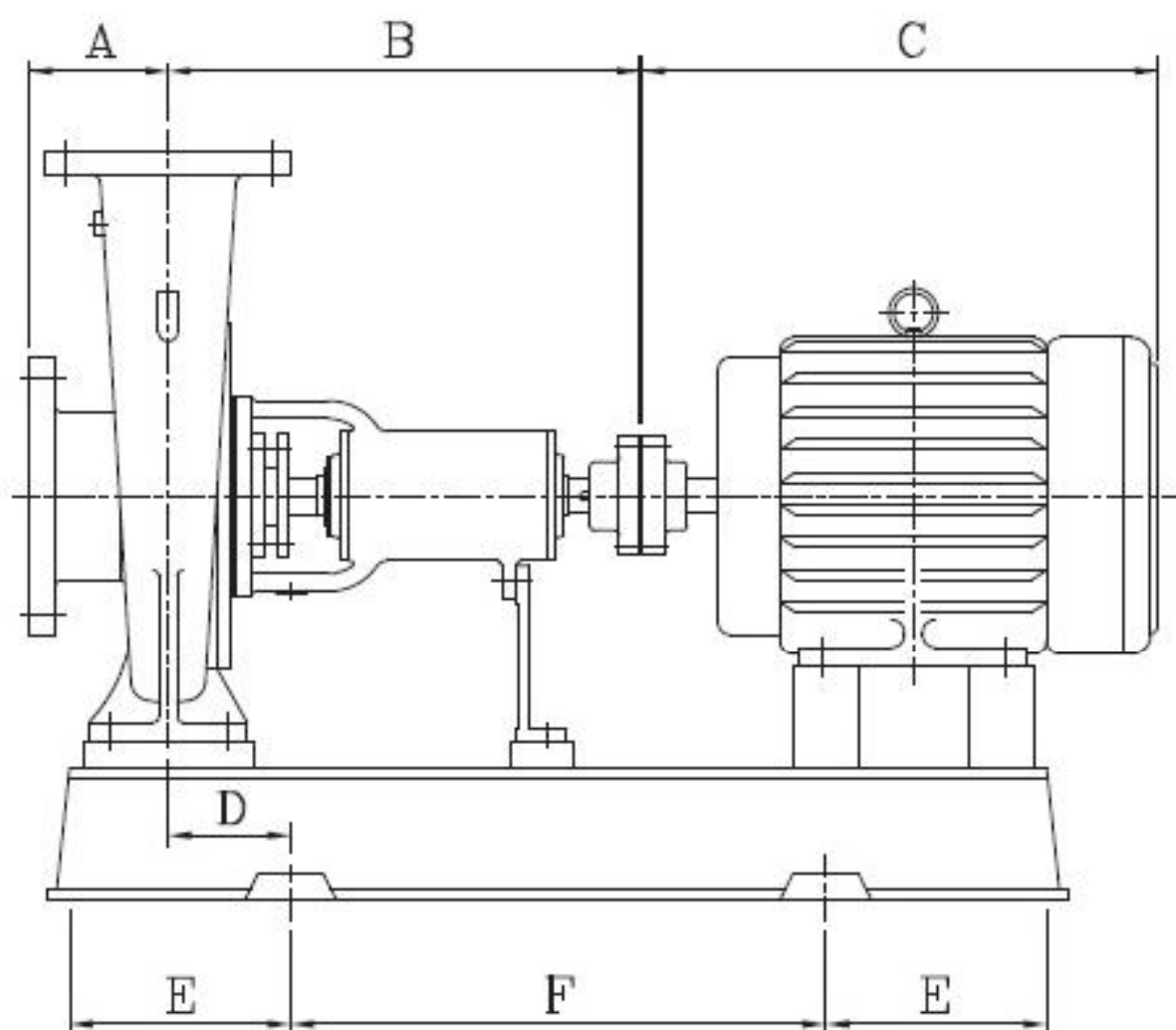
- High-rise building water supply
- Fire fighting water supply
- Wastewater treatment equipment
- Boiler water supply
- General industrial water supply
- Civil construction water supply
- Agricultural irrigation water supply

構造特性

- 1 泵浦吐出口位於中心線上，方便配管工作，且泵殼預設有排氣口，使內部不會積留空氣，而讓泵浦正常運作。
- 2 葉輪皆經動平衡及水力平衡校正，運轉時振幅特低，磨耗少，使用壽命同軸承、軸封一樣長。
- 3 軸封設計可依使用場所，選擇適當的方式，如填料、一般水用機械軸封，乃至化工用雙重機械軸封，均可確保流體不向外滲漏。
- 4 軸承均經嚴謹的評估及選用，能完全承受軸向推力，其設計壽命至少在20,000小時以上。
- 5 軸心強度設計採高標準，使得軸的臨界轉速遠高於運轉轉速(至少1.3倍)。

Construction Feature

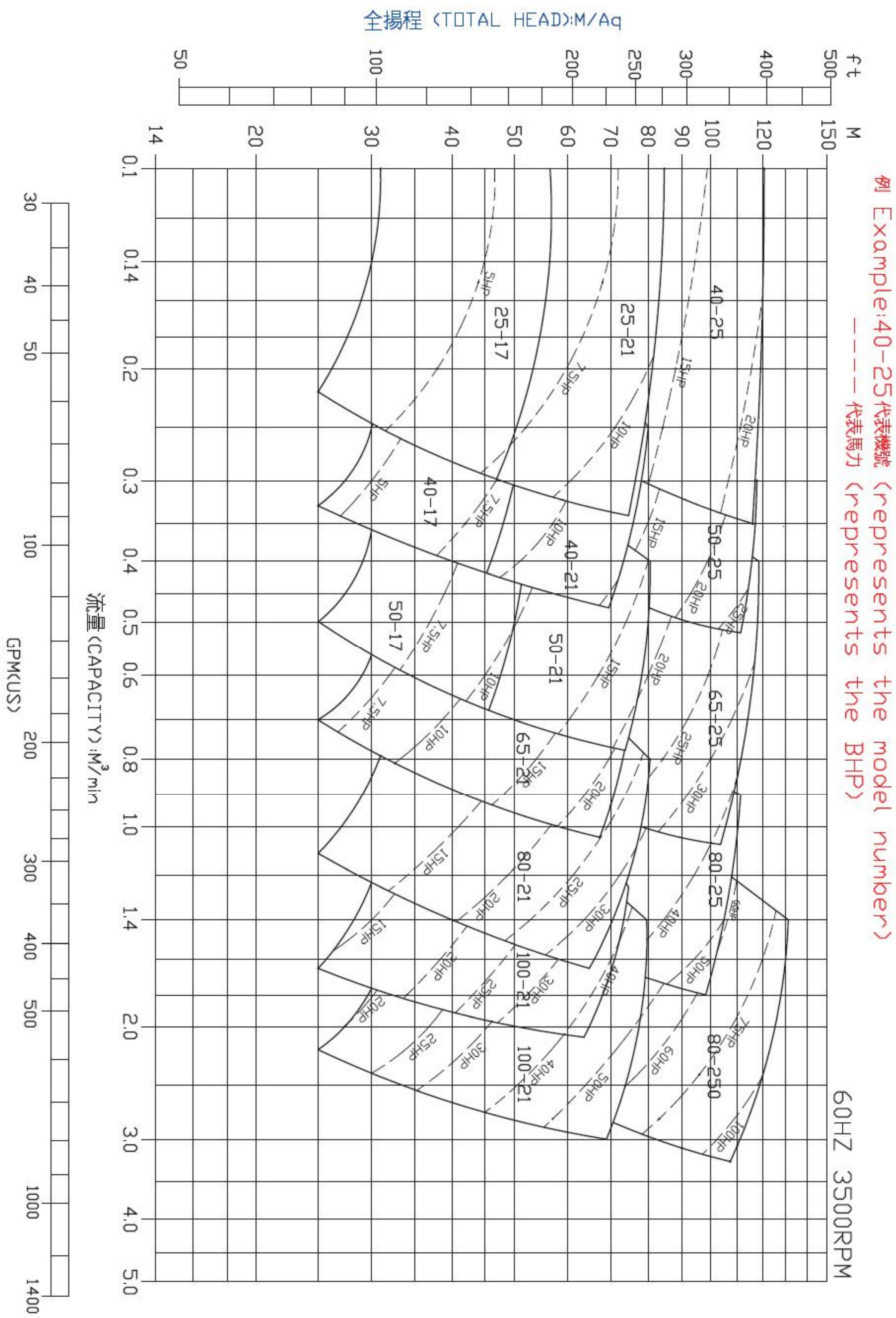
- 1 The discharge nozzle of the pump is located at the centerline for easier piping work. The casing of the pump is also configured with a vent hole to prevent the air from being accumulated within for the pump to operate normally.
- 2 The impeller has been dynamically balanced and calibrated for achieving hydraulic balance. In this way, it reduces the vibration amplitude during running while achieving less wear and longer service life for the bearing and shaft seal.
- 3 The mechanical seal can be designed into the appropriate type according to the application locations, such as packing, general water-based mechanical seal as to the double mechanical seals for chemical processing, in order to prevent the fluid from leaking.
- 4 All bearings are strictly evaluated and selected to completely sustain the axial thrust to ensure minimum 20,000 hours of service life in design.
- 5 Higher standard is based for the design of shaft strength, ensuring that the critical speed of the shaft will be higher than the operation speed at all times. (at least 1.3 times)



Unit : mm

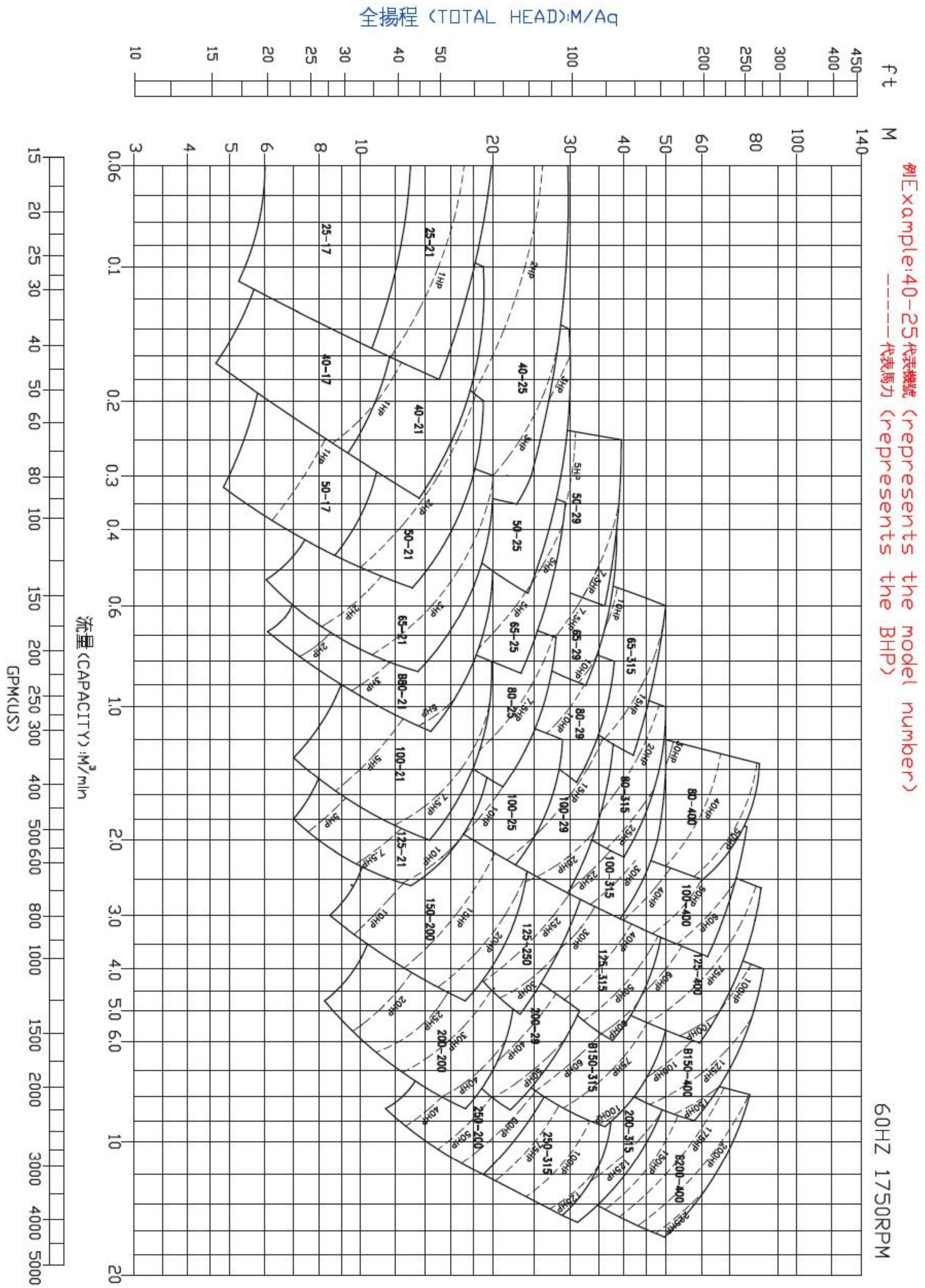
泵浦 Pump							
型式 Model	口徑 Nozzle		尺寸 Size				軸架 Bracket
	入口 In.	出口 Dia.	A	B	J	I	
25-17	40	25	80	395	150	150	SM
25-21	40	25	80	395	150	180	SM
40-17	50	40	80	395	150	150	SM
40-21	50	40	80	395	150	180	SM
50-17	65	50	100	395	150	170	SM
40-25	50	40	80	395	180	210	SL
50-21	65	50	100	395	180	200	SL
50-25	65	50	90	395	180	220	SL
65-21	80	65	100	395	180	225	SL
65-25	80	65	100	405	180	240	SL
80-21	100	80	120	405	180	225	SL
50-29	65	50	100	450	200	225	MM
65-29	80	65	100	450	200	260	MM
80-25	100	80	120	450	200	260	MM
80-29	100	80	120	450	200	280	MM
100-21	125	100	125	450	200	260	MM
125-21	125	125	125	450	200	280	MM
80-250	100	80	125	450	250	280	ML
100-25	125	100	125	450	250	280	ML
100-29	125	100	140	450	250	300	ML
150-21	150	150	160	455	250	325	ML
65-315	80	65	125	490	225	280	LS
80-315	100	80	125	490	250	315	LS
100-250	125	100	130	490	250	280	LS
100-315	125	100	140	490	250	315	LS
125-250	150	125	140	490	250	355	LS
125-29	150	125	140	480	250	350	LS
150-200	150	150	160	490	250	315	LS
200-200	200	200	200	490	280	400	BL
200-201	200	200	200	490	280	400	BL
80-400	100	100	140	530	280	355	LM
100-400	125	100	140	530	280	355	LM
125-315	150	125	140	530	280	355	LM
150-250	200	150	160	530	280	400	LM
150-315	200	150	160	530	280	400	LM
200-29	200	200	180	530	280	410	LM
125-400	150	125	140	530	315	400	LM
250-29	250	250	220	545	330	450	
250-200	250	250	240	555	315	450	
150-400	200	150	160	635	315	450	
200-315	250	200	230	670	355	450	
250-315	300	250	250	696	355	530	
150-500	200	150	250	726	400	500	
200-400	250	200	230	726	355	500	

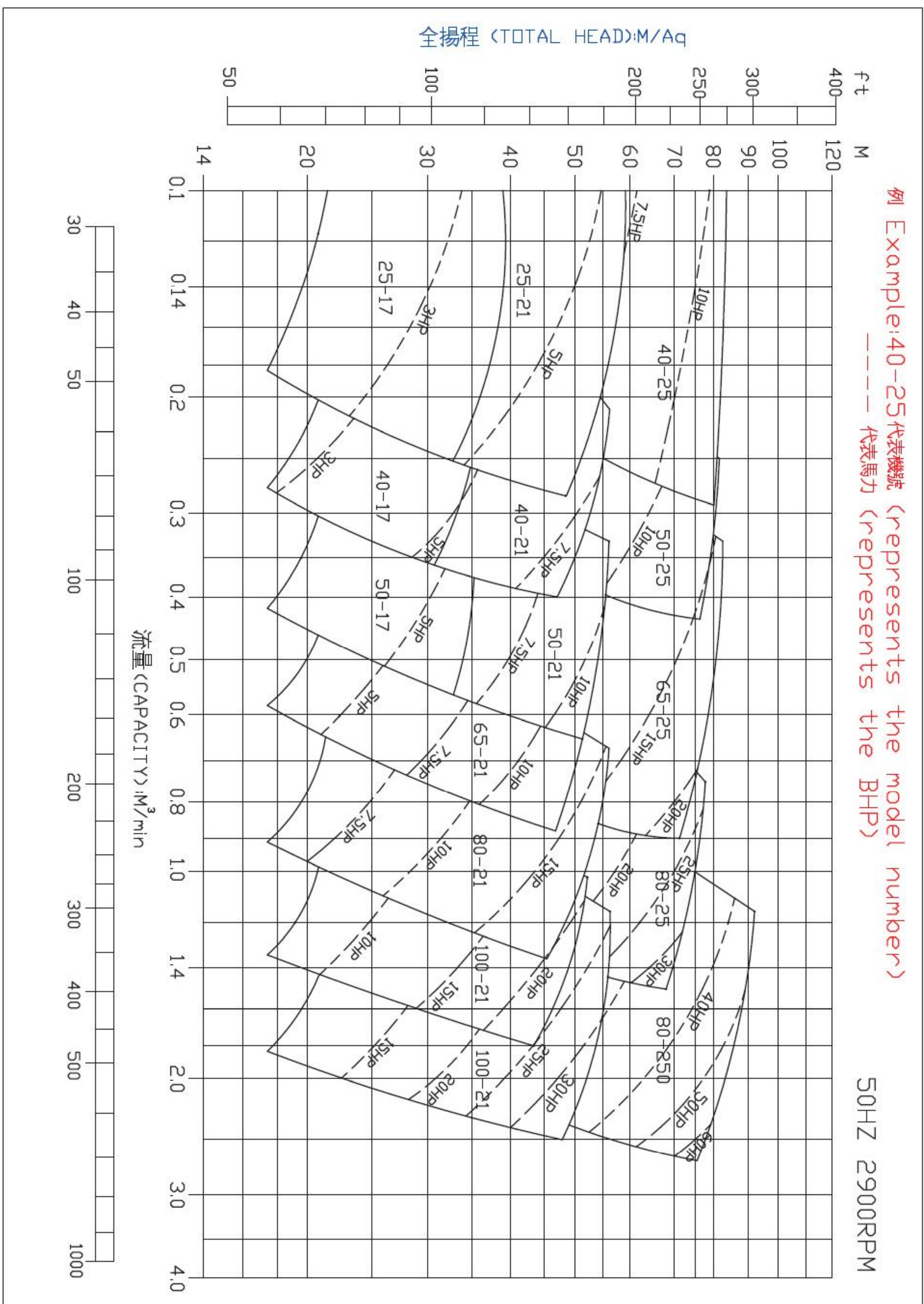
尺寸 Dimensions										
底座 Base	馬達 Motor		泵浦&底座相關尺寸 Pump & Base dimensions							
	HP/4P	C	D	E	F	H	K	ød	L	M
SM	1	272	75	175	458	340	70	15	180	45
	2	322	75	175	458	340	80	15	180	45
	3	363	75	175	458	340	80	15	180	45
	5	382	95	175	445	320	90	15	180	45
	7 1/2/10	446/484	85	165	538	363	120	15	180	45
SL	2	322	85	175	455	340	90	15	180	45
	3	363	85	175	455	340	90	15	180	45
	5	382	95	175	445	320	90	15	180	45
	7 1/2/10	446/484	85	165	538	363	90	15	180	45
	15/20	604/648	85	210	645	400	105	19	210	60
	25/30	667	90	200	730	455	110	19	210	60
MM	40	705	90	200	730	455	110	19	210	60
	5	382	70	200	520	425	85	15	180	45
	7 1/2/10	446/484	110	225	515	428	105	15	180	45
	15/20	604/648	110	230	650	425	105	19	210	60
ML	25/30	667	90	200	730	455	110	19	210	60
	40	705	90	200	730	455	110	19	210	60
	7 1/2/10	446/484	110	225	515	428	105	15	180	45
	15/20	604/648	95	200	688	416	105	19	210	60
LS	25/30	667	70	190	748	500	100	19	210	60
	40	705	100	190	748	500	100	19	210	60
	7 1/2/10	446/484	110	225	515	428	105	15	180	45
BL	20	648	70	190	850	590	110	19	210	60
	25/30	667	70	190	850	590	110	19	210	60
	40	705	70	190	850	590	110	19	210	60
	50/60	798	70	235	850	595	115	23	210	60
LM	25/30	667	70	190	850	590	110	19	210	60
	40	705	100	235	850	595	115	19	210	60
	50/60	798	100	235	850	595	115	23	210	60

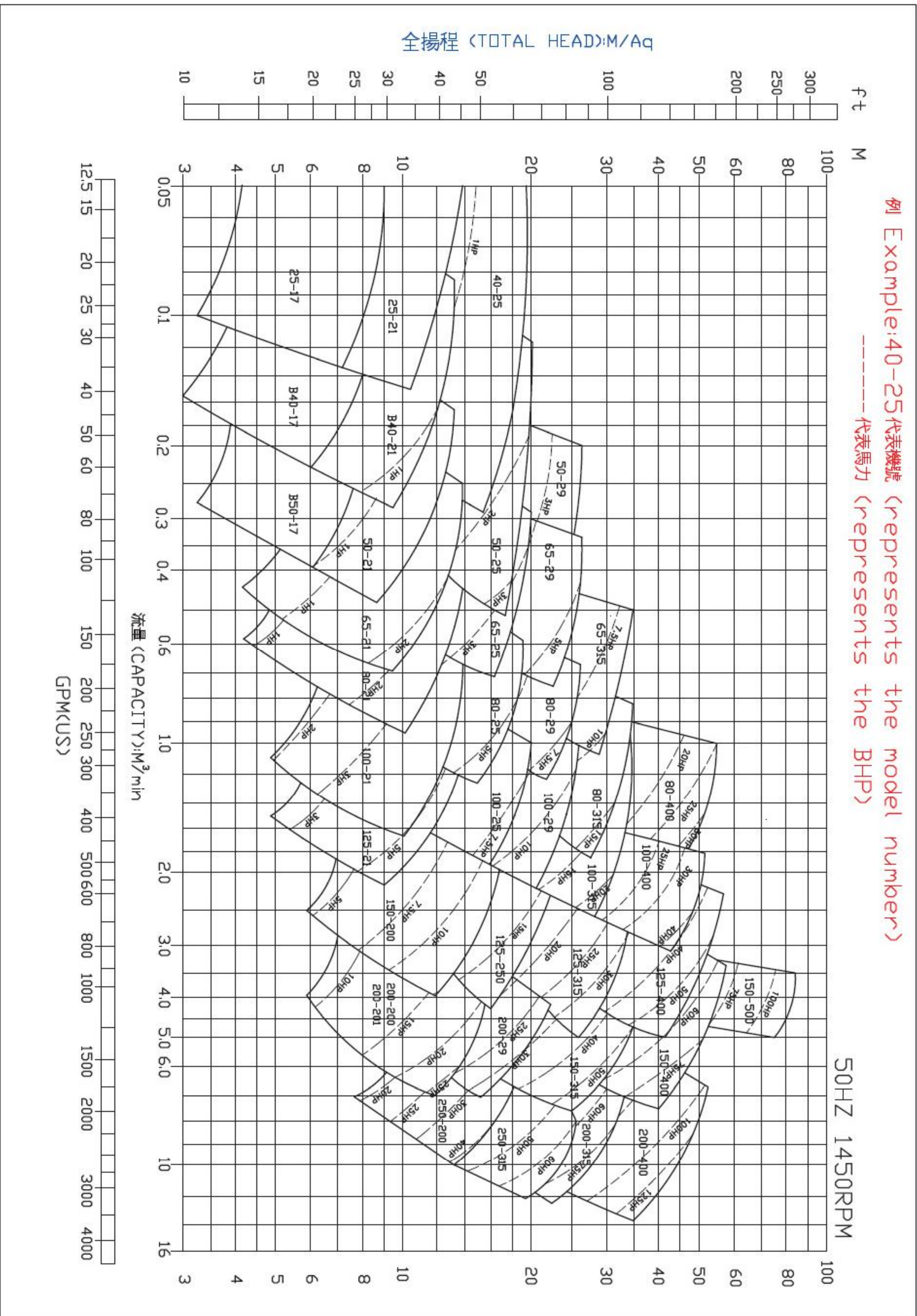


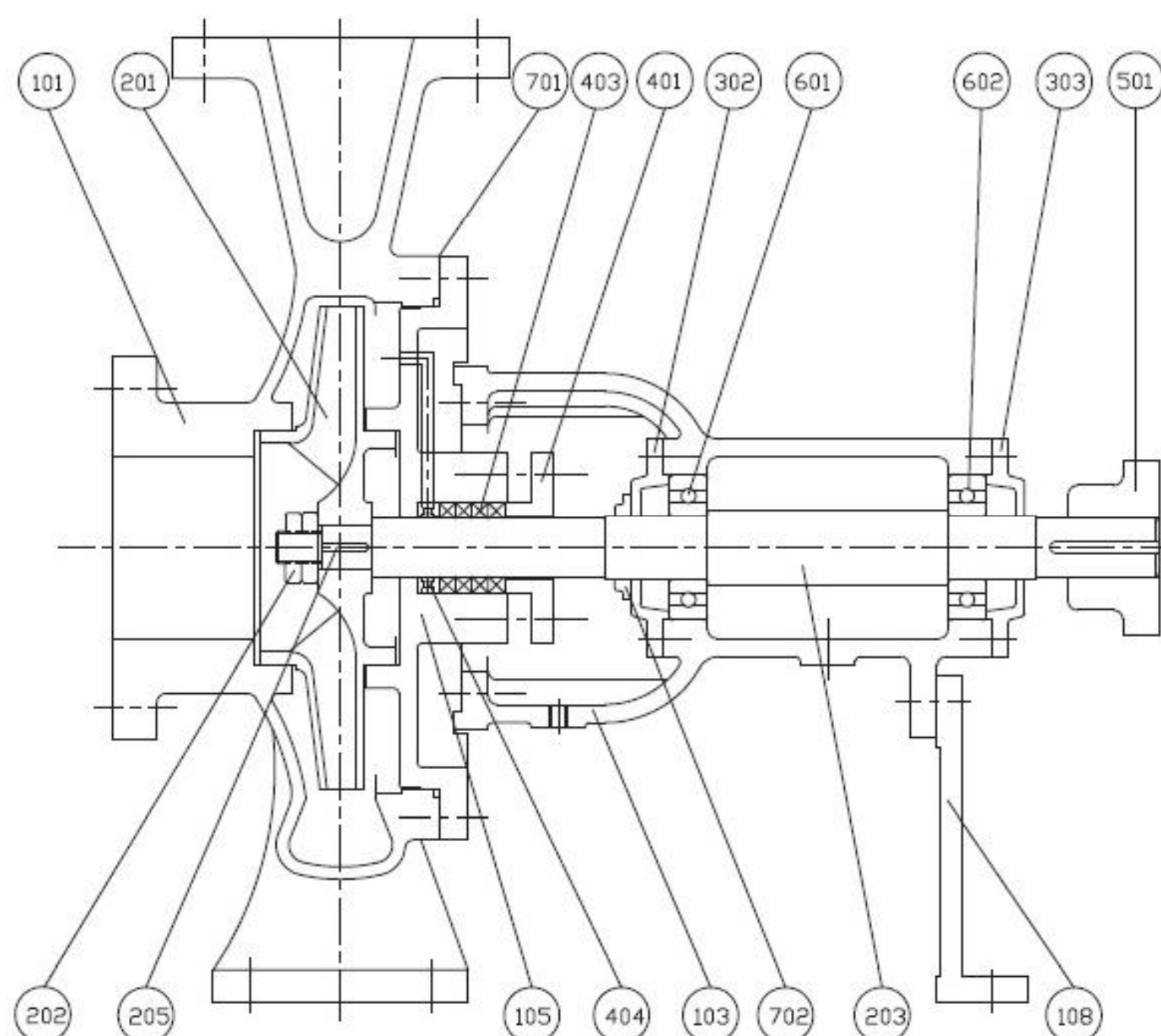
性能曲線圖60HZ

Performance Curve 60HZ

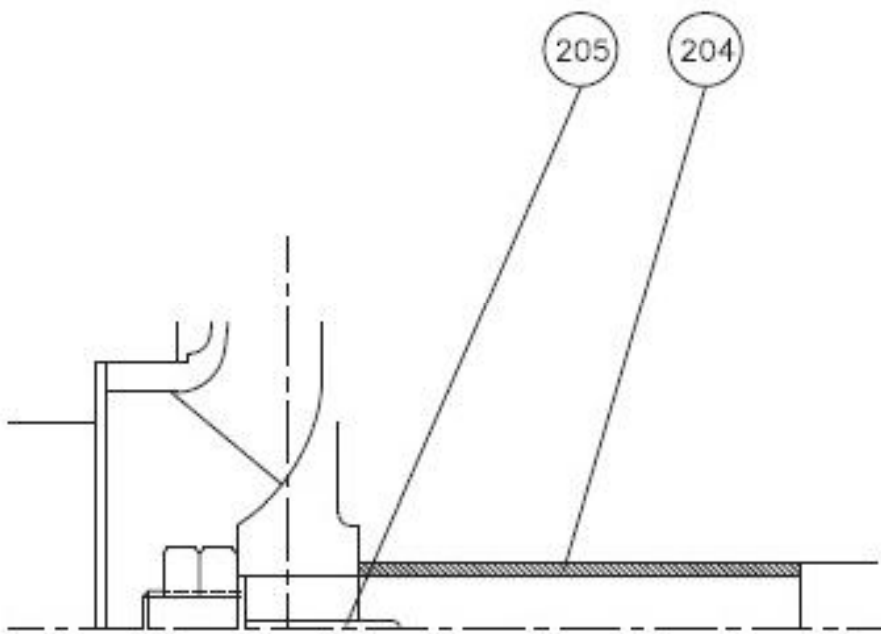
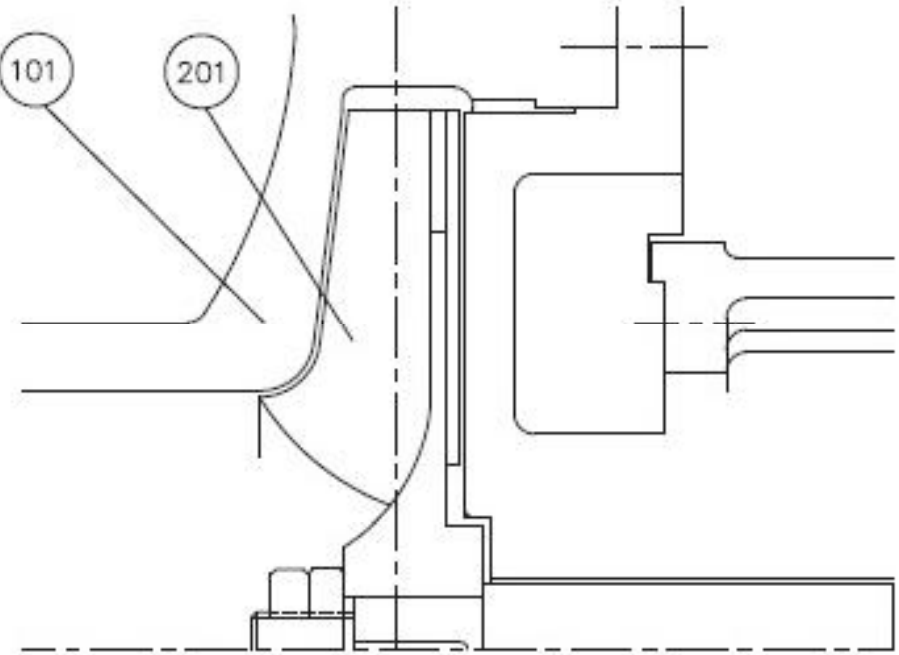
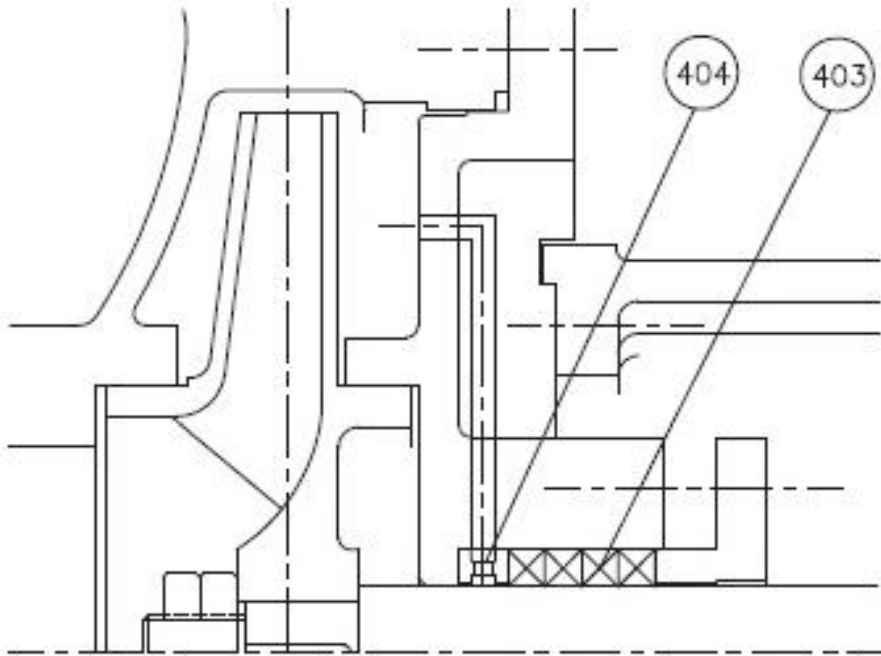
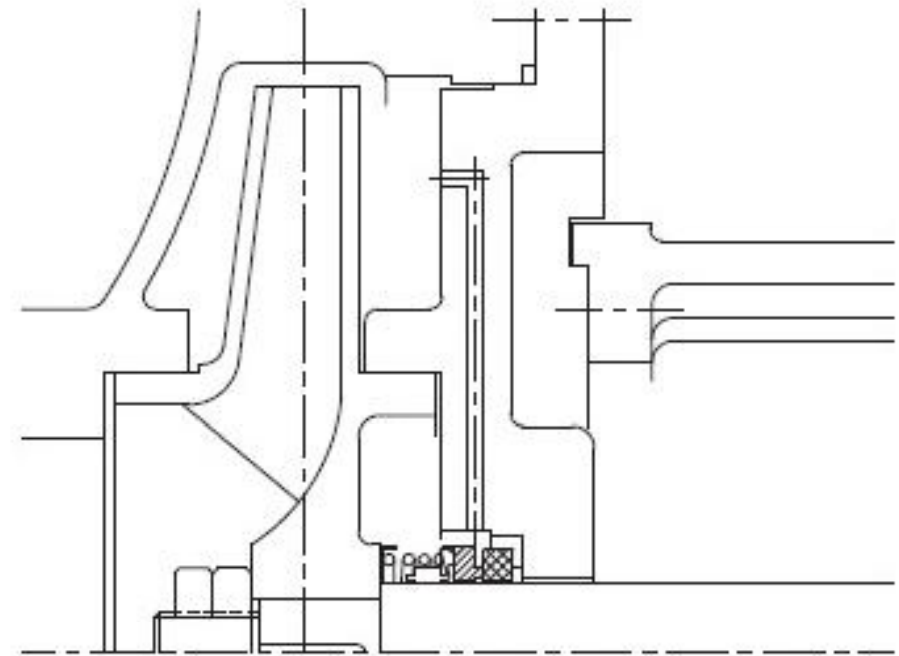
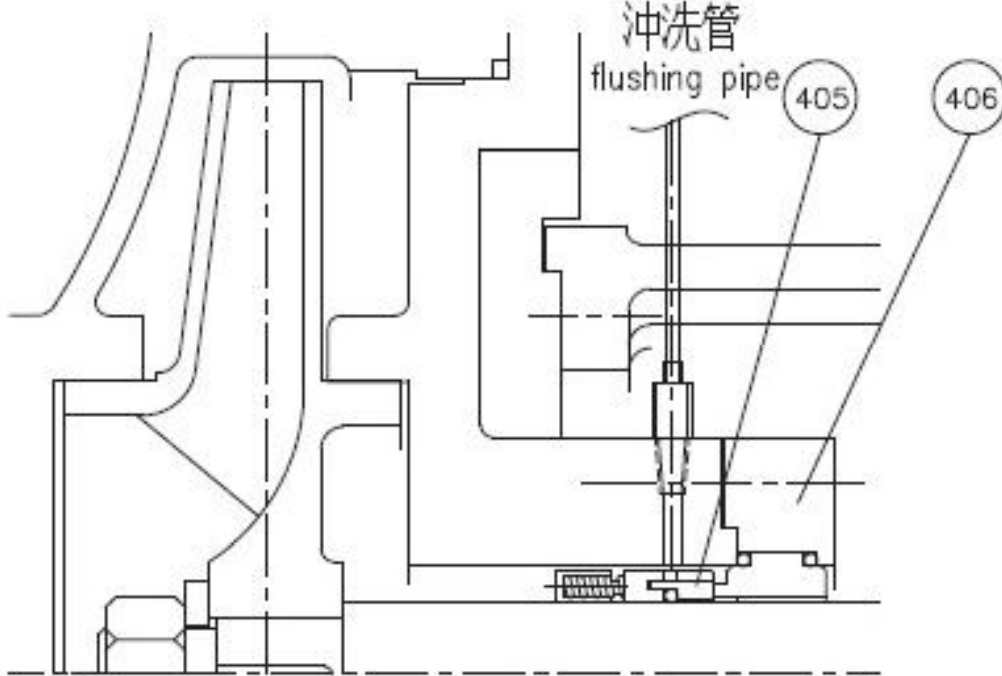
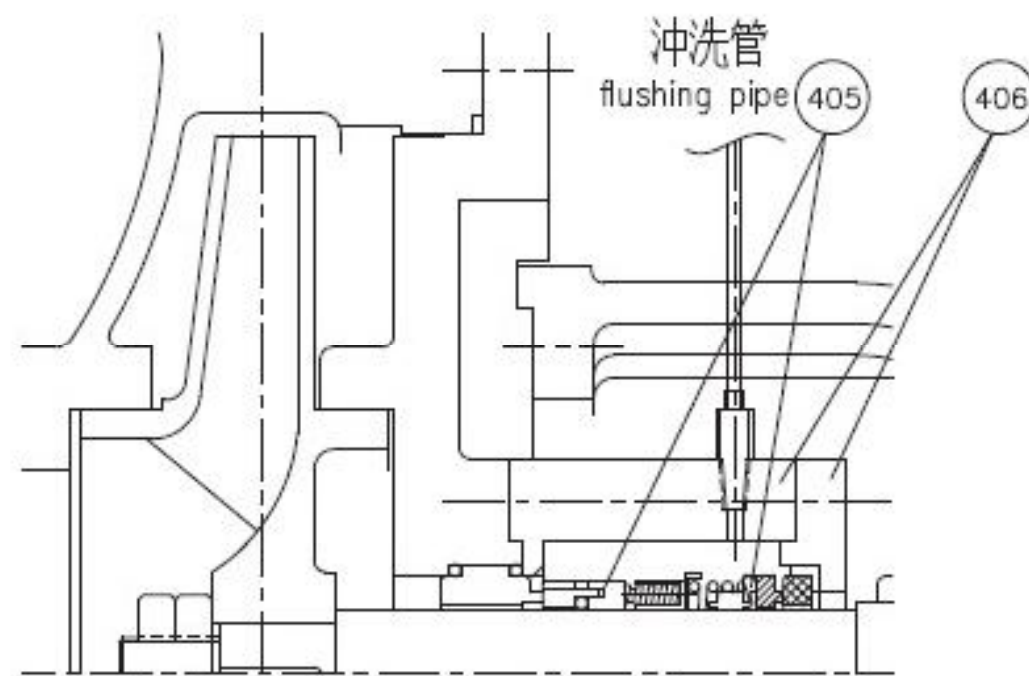
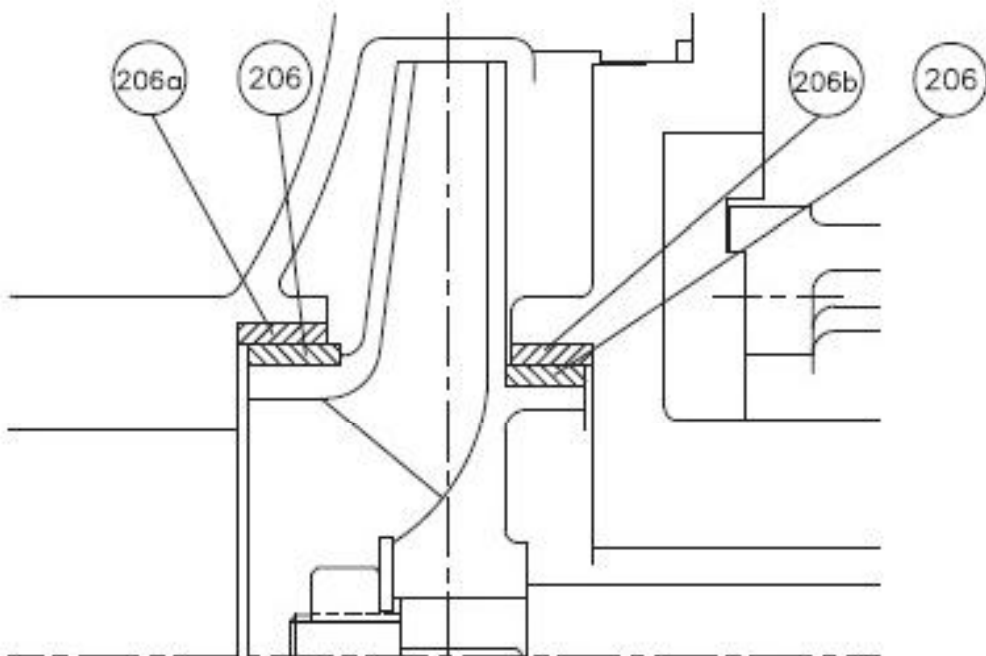
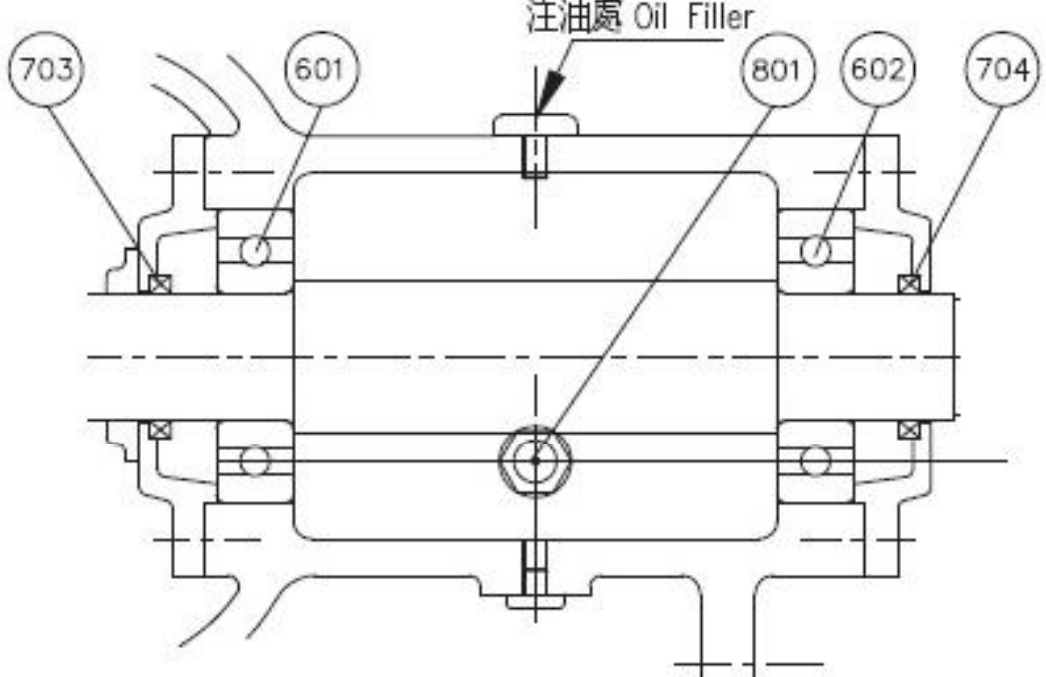


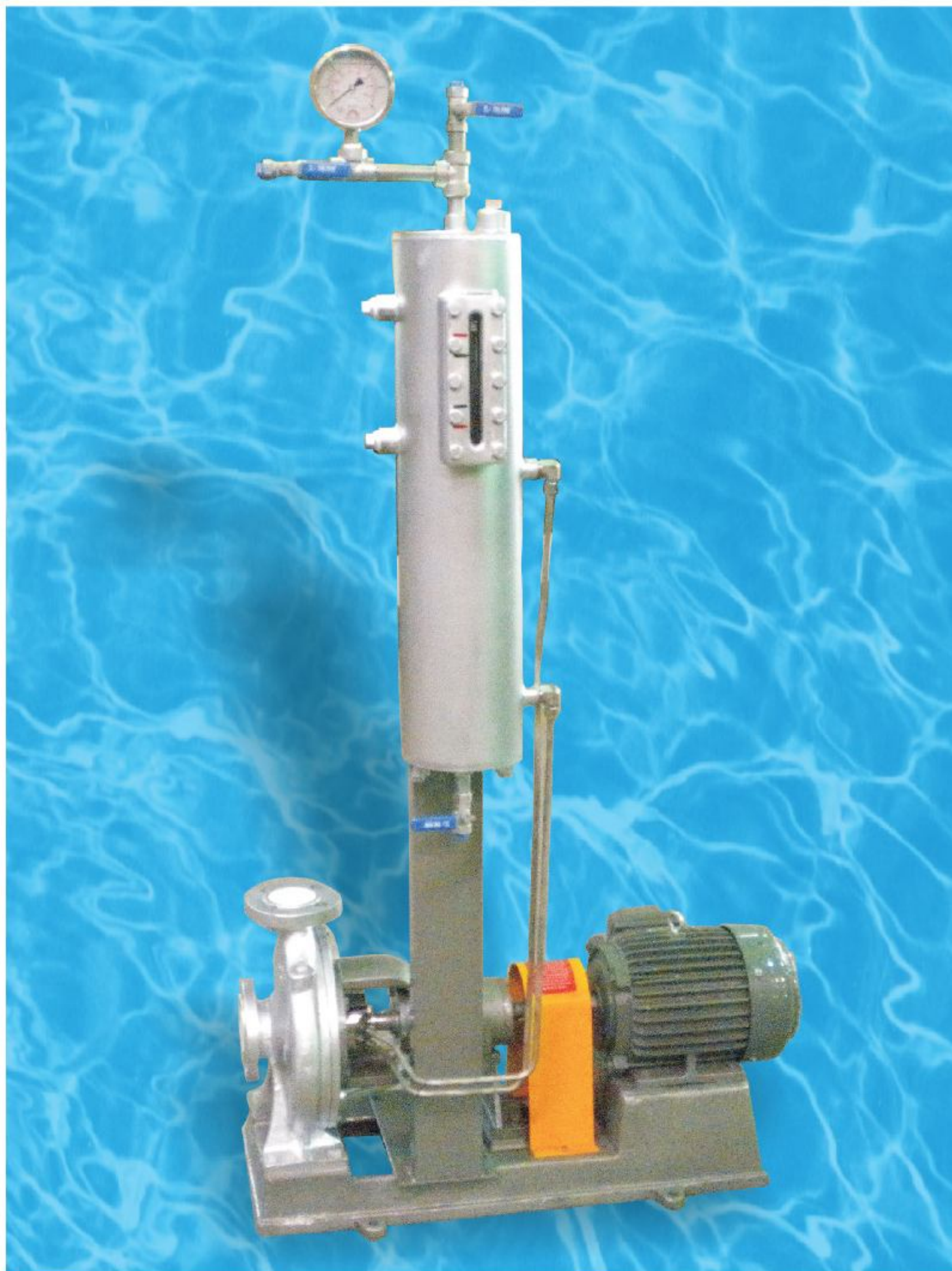




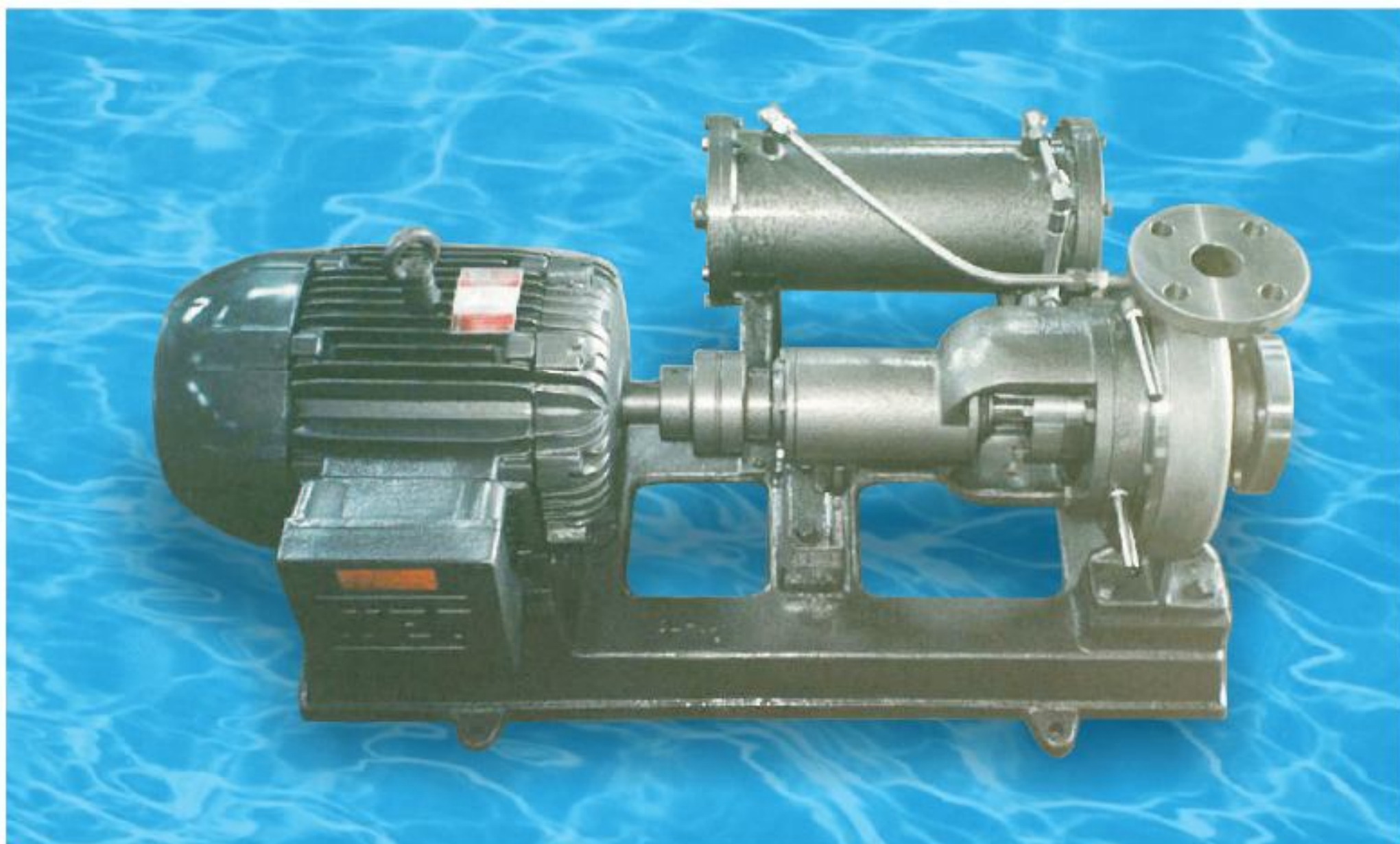


件號 No.	零件名稱 component.	材質 Material				附註說明 Remark
		A	B	C	D	
101	泵 殼 Volute	FC200	FCD400	SCS13A	SCS14A	
103	軸 承 箱 Bearing housing	FC200	FC200	FC200	FC200	
105	側 蓋 Seal plate	FC200	FCD400	SCS13A	SCS14A	
108	支 腳 Bearing housing support	FC200	FC200	FC200	FC200	
201	葉 輪 Impeller	BC6	BC6	SCS13A	SCS14A	
202	固定螺母 Lock nut	SUS304	SUS304	SUS304	SUS316	
203	泵 軸 Shaft	S45C	SUS410	SUS304	SUS316	
204	軸 套 筒 Sleeve	SUS410	SUS410	SUS304	SUS316	
205	葉 輪 鍵 Impeller key	SUS304	SUS304	SUS304	SUS316	
206	葉輪磨損環—動態 Impeller Wering Rings	BC6	BC6	SCS13A	SCS14A	
206a	泵殼磨損環—靜態 Volut Wearing Rings	FC200	FCD400	SCS13A	SCS14A	
206b	側蓋磨損環—靜態 Bearing Plate Wering Rings	FC200	FCD400	SCS13A	SCS14A	
302	軸 承 蓋 Bearing Cover-Front	FC200	FC200	FC200	FC200	
303	軸 承 蓋 Bearing Cover-Rear	FC200	FC200	FC200	FC200	
401	填 料 Gland	V#133	V#133	V#7133	V#7133	
403	填 料 蓋 Racking	FC200	FC200	SCS13A	SCS14A	
404	冷 卻 環 Lantern Ring	FC20	FC20	SCS13	SCS14	
405	機械軸封 Mechanical Seal					
406	軸封押蓋 Seal Cover	SUS304	SUS304	SUS304	SUS316	
501	聯 軸 器 Coupling	FC200	FC200	FC200	FC200	
601	球 軸 承 Ball Bearing					
602	球 軸 承 Racking					
701	墊片/O型環 Packing/O-Ring	Rubber	Rubber	V#1500	V#1500	
702	擋 水 環 Water Slinger	Rubber	Rubber	Rubber	Rubber	
704	油 封 Grease Seal-Front	Rubber	Rubber	Rubber	Rubber	
705	油 封 Grease Seal-Rear	Rubber	Rubber	Rubber	Rubber	
801	油 面 鏡					

	
① 配軸套筒 (With shaft sleeves.)	② 配半開放葉輪型 (Semi-Open Impeller)
	
③ 一般填料型 (Gland packing of shaft seal.)	④ 配清水用機械軸封型 (Mechanical seals for general purpose.)
	
⑤ 配化工用機械軸封型 (Mechanical seals for chemical processing)	⑥ 配雙機械軸封型 (Double Mechanical seals)
	
⑦ 配磨損環—靜態及動態 (With Impeller Wearing Rings)	⑧ 球軸承用機油潤滑型 (Bearing Housing With Oil Bath)



API PLAN52 配置壓力桶
With Pressure Tank



配置冷卻器
With Cooler



配置旋風分離器
With Cyclone Separator

如蒙洽詢請指示下列各項

Request for information

When making an enquiry, please indicate the details of the following information:

- 1.液體：_____
- 2.出水量：_____M³/Min.(US.GPM)
- 3.總揚程：_____M(ft)
- 4.液體溫度：_____°C(°F)
- 5.液體黏度：_____
- 6.比重：_____
- 7.酸鹼度：_____
- 8.運轉溫度下之蒸汽壓力：
_____kg/cm²(PSIA)
- 9.可用之淨有效吸入揚程：_____M(ft)
- 10.泵浦回轉數：_____rpm
- 11.額定馬力：_____KW(HP) _____Pole
_____Phase, _____Hz, _____volts

- 1.Liquid : _____
- 2.Capacity : _____M³/Min. (US.GPM)
- 3.Total head : _____M(ft)
- 4.Temperature of Liquid: _____°C (°F)
- 5.Viscosity of Liquid: _____
- 6.Specific Gravity: _____
- 7.PH : _____
- 8.Vapor pressure at operating temperature :
_____kg/cm²(PSIA)
- 9.NPSH available : _____M(ft)
- 10.Pump speed : _____rpm
- 11.Rated Power : _____KW(HP) _____Pole
_____Phase, _____Hz, _____volts

主要產品

Main Product Line

一般給水排水泵浦
空調冷凍用泵浦
鍋爐給水高壓泵浦
含固體雜質液輸送泵浦
石化液製程輸送泵浦
酸鹼液輸送泵浦
深水井抽水泵浦

General water supply/drainage pump
Air-conditioning freezing pump
Boiler water supply high-pressure pump
Solid impurities contained liquid conveying pump
Petrochemical liquid process conveying pump
Acid/alkaline liquid conveying pump
Deep well suction pump

THAILAND : THAI PINNACLE ENGINEERING CO.,LTD
8/1 SOI 3-10 PETCHKASEM 77 PETCHKASEM ROAD
NONGKANGPLU NONGKAEM BANGKOK 10160
TEL : (662) 809-8915-8 / FAX : (662) 809-8933
<http://www.thaipinnacle.com>
E-mail : sale@thaipinnacle.com