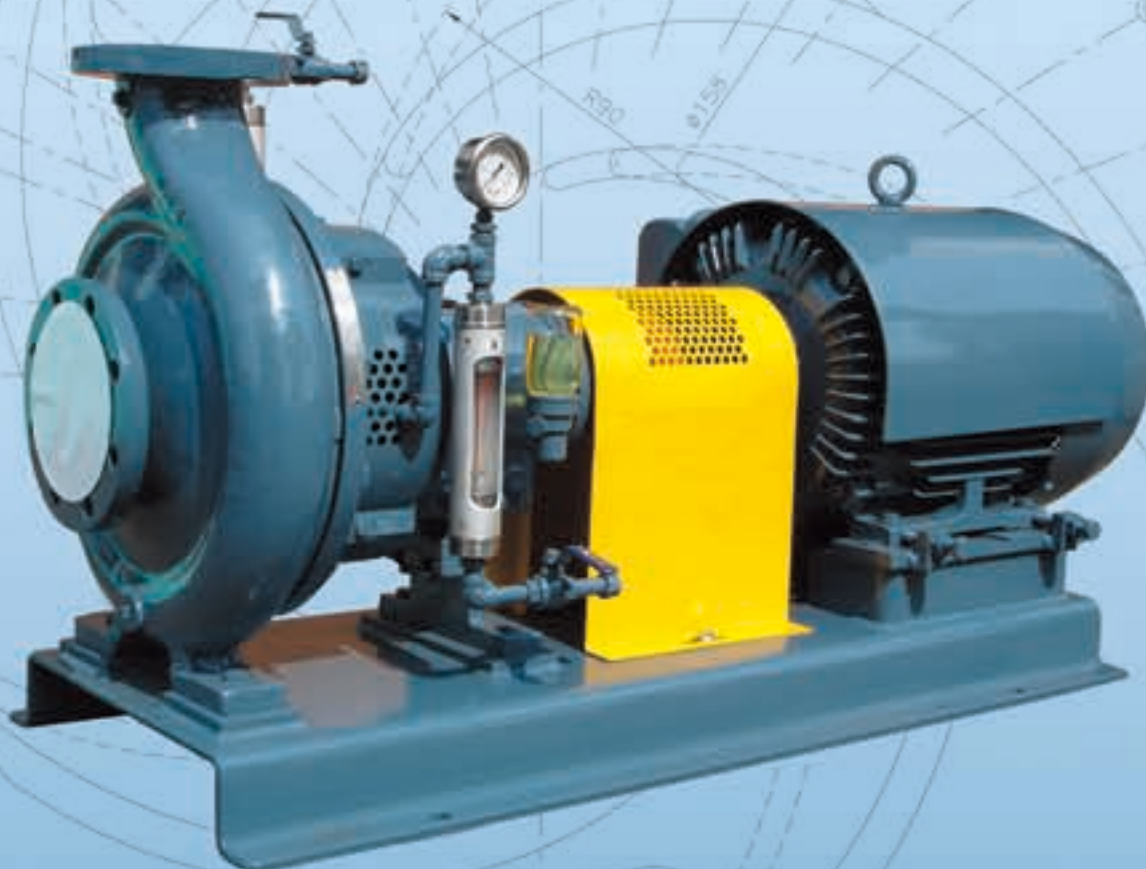


# W96 化學製程泵浦

Chemical Process Pumps



- 單級端吸離心式泵浦
- 口徑:  $\varnothing 25 \sim \varnothing 200\text{mm}$  (1"~8")
- ANSI B73.1 標準相容
- Single stage end suction centrifugal pump
- Pump port size from  $\varnothing 25 \sim \varnothing 200\text{mm}$  (1"~8")
- ANSI B73.1 standard compliance

ISO 9001  
BSMI  
認可登錄  
ISO 9001  
2000/CNS 12681  
REGISTERED  
6M7Y006

專營：離心泵、高壓多段泵、紙漿泵、  
雷射對心墊片、自動加油杯。



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## 》用途

- 化學工業
- 石油化學
- 紙漿工業
- 礦業
- 食品用
- 一般用途
- 熱水

## 》技術特徵

W96泵浦完全依照B73.1標準製作，具有一般工業用途之特性。

- 維護容易，具背向拉出設計，可由外部調整葉輪，軸系有極高的互換性，可耐16kg/cm<sup>2</sup>工作壓力。
- 依照B73.1標準型泵浦，中心出口管路設計。
- 全開放葉輪可提供長時間及高效率運轉，(可應客戶設計半開或全開密閉式葉輪)。
- 標準尺寸，另件具有極高的互換性。
- 標準旋轉方向：馬達側視之，為順時針旋轉
- 溫度限制：接近370°C

## 》配件

- 相對法蘭
- 聯軸器
- 密閉式安全護罩1件
- 底座
- 三相馬達，電壓：208~480V，頻率60/50Hz  
過載保護器由使用者自行安裝在電控箱

## 》Application

- Chemical
- Petrochemical
- Pulp & Paper
- Mining dewater
- Food & Beverage
- General industries
- Hot water transfer

## 》Features

W96 process pumps full compliance B73.1 standard, with proven performance for industrial general purpose applications

- Maintenance easily with back pull-out design, external impeller adjustment, interchangeable module design and 16bar work pressure
- Compliance with B73.1 standard, end suction nozzle and centerline outlet nozzle design
- Optimum hydraulic performance with a proven state-of-the-art blade design technology, fully open impeller for industry general purpose application, closed or semi open type impeller also available for customer
- High efficiency is achieved by optimum hydraulic design in impellers and volute, also keep smoothly surface on flow channel and good impeller balanced
- Rotation orientation is clock, s wise at motor side, inlet nozzle and outlet nozzle are compliance with B73.1 standard, easily to fit piping configurations
- Maximum temperature limited but not more than 370°C

## 》Accessories

- Butt joint flange 1 Set.
- Coupling 1 Set
- Coupling guard
- Base plate
- Three-phase motor: 208~480V 60/50Hz ; overload protection to be provided by user and installed in the control panel



## 》構造說明

### ● 泵殼：

中心出口,使配管時不易扭曲泵殼,管路可獲得完整的支撐。泵殼預留之腐蝕厚度3mm,泵殼可自動排氣,出入口法蘭為標準尺寸 (ANSI.150LB.300LB)。

### ● 葉輪：

為全開放式葉輪,可輸送固體液及有黏度之液體,葉輪以螺紋旋緊於軸心上,葉輪背面以O型環防止液體流入軸心。

### ● 填料函：

依客戶抽送液體及性質,有填料式與機械軸封供選擇,並且有錐形與圓筒形設計。

### ● 中間托架：

設有排水孔,利於排出填料及機械軸封洩漏之液體。

### ● 軸承箱：

設有冷卻室及儲油室,在視油位部分,可選油面鏡(油位尺)或自動加油杯。

### ● 軸心：

軸心在迷宮式油封及軸承處研磨表面粗度 $0.8\mu\text{m}$ 以下,機械軸封面,軸擺幅不大於 $0.05\text{mm}$ 。

## 》Construction

### ● CASING:

End suction with center line discharge design compliance with ANSI B73.1, the dimension of nozzle and flange is standardized, easily to fit piping configurations and reduce the nozzle loading at pump casing, non air pocket residue inside casing volute, more 3mm thickness for corrosion or erosion.

### ● IMPELLER:

Fully open impeller is best choice for corrosive/erosive, solid handling and high consistence liquid, impeller be fixed on the shaft end screw by the nose screw hole, screw orientation counter with impeller rotation, and an o-ring at back of impeller seal with shaft sleeve to keep shaft away from corrosion liquid.

### ● STUFFING BOX :

Gland seal or mechanical seal depend on pumping liquid or customer enquiry, taper type or standard bore type seal chamber base on the particle size and consistence.

### ● ADAPTER :

Rigid adapter offer a firm support for stuffing box, a drainage hole at bottom to drain the liquid emission from gland seal or mechanical seal.

### ● BEARING FRAME :

Bearing frame with large oil sump and finned oil cooler at bottom optional, oil level can be check by oil sight glass (oil level) or oil automatic feed device.

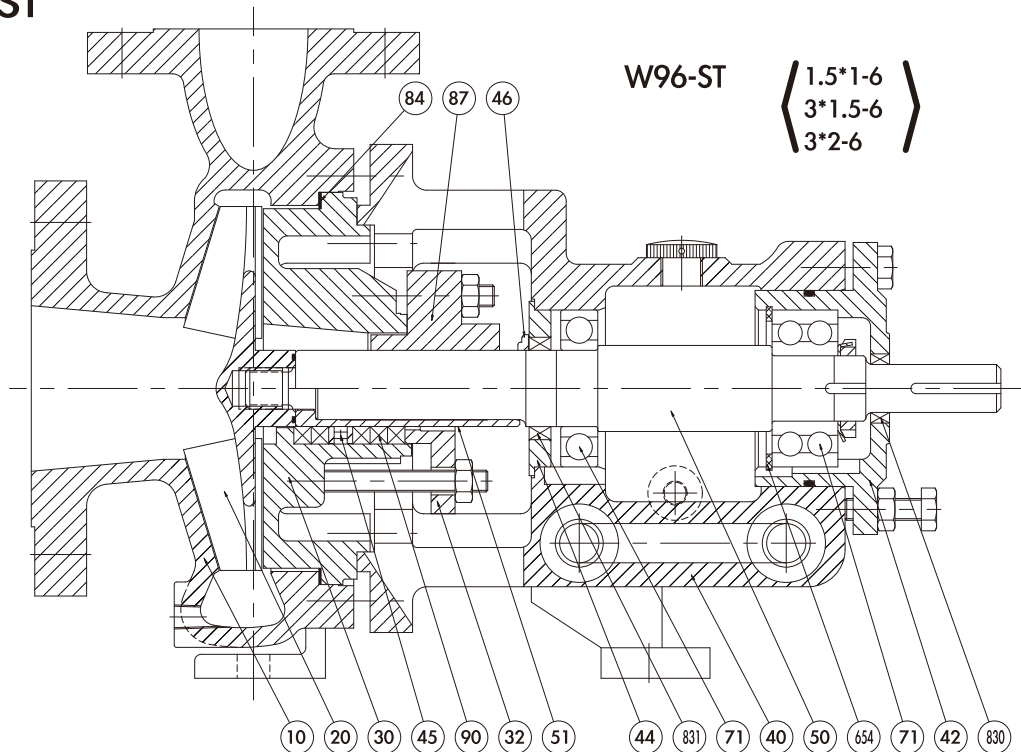
### ● PUMP SHAFT :

The shaft surface at bearing and oil labyrinth seal be installed, roughness must be under  $0.8\mu\text{m}$  by precision grinding, and the deflection of shaft no more than  $0.05\text{mm}$  measured at seal chamber outside surface.

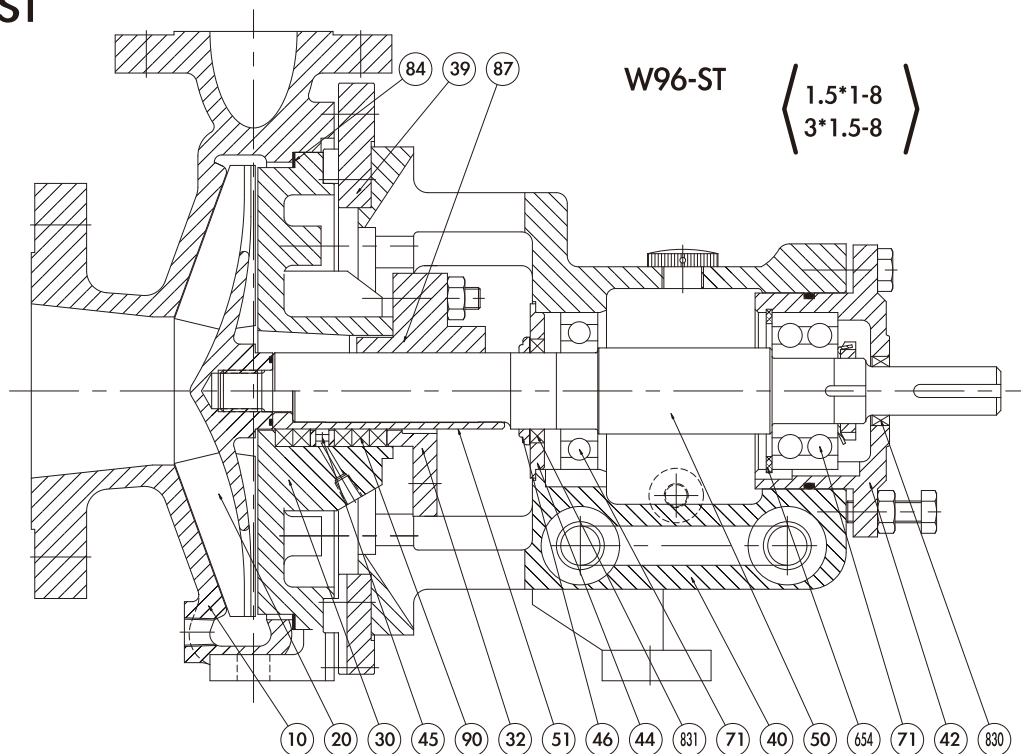


## 》產品構造(Construction)

TYPE W96-ST

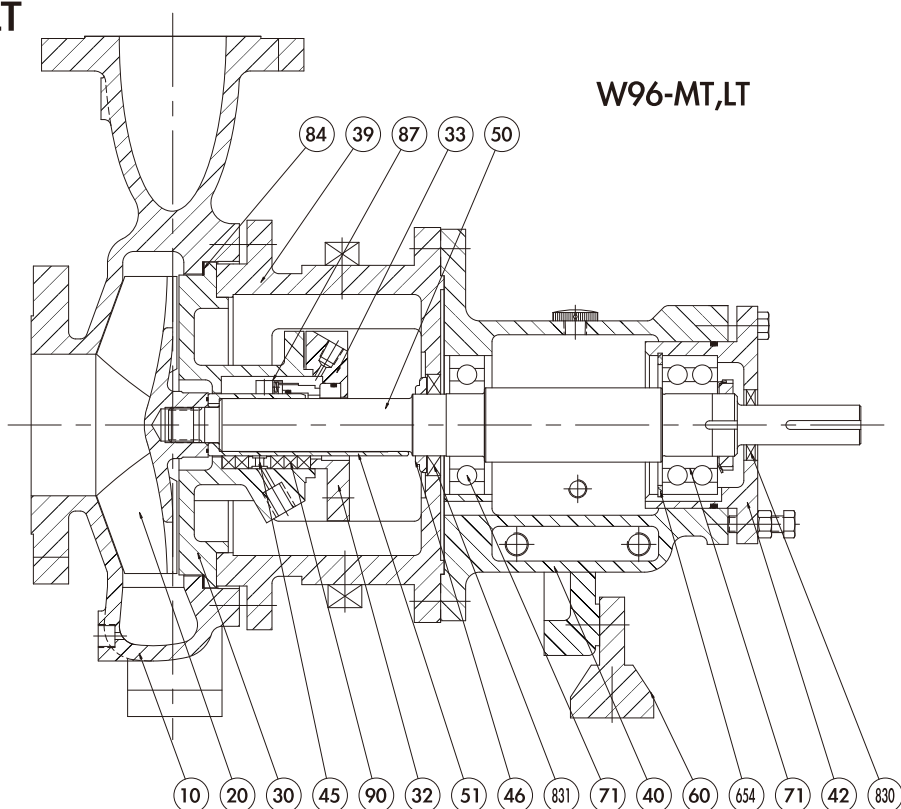


TYPE W96-ST

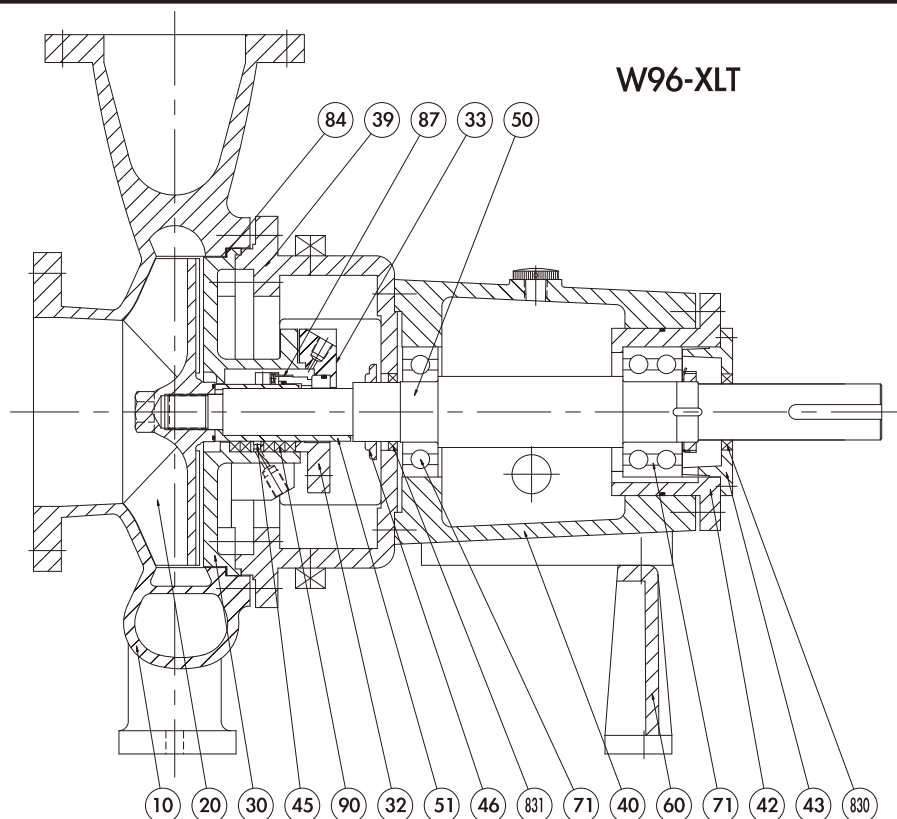




## TYPE W96-MT,LT



## TYPE W96-XLT





## 》主要部份材質表(Material of main parts)

| PART ON | 零件名稱(PART NAME) |                 |
|---------|-----------------|-----------------|
| 10      | 泵殼              | Casing          |
| 20      | 葉輪              | Impeller        |
| 30      | 填料函             | Stuffing box    |
| 32      | 填料蓋             | Gland           |
| 33      | 軸封壓蓋            | Mech.Seal glang |
| 39      | 中間托架            | Frame adapter   |
| 40      | 軸承箱             | Bearing frame   |
| 42      | 小軸承箱            | Bearing shell   |
| 43      | M側軸承蓋           | Bearing cover   |
| 44      | P側軸承蓋           | Bearing cover   |
| 45      | 水封環             | Lantern ring    |
| 46      | 擋水環             | Water slinger   |
| 50      | 軸心              | Pump shaft      |
| 51      | 軸套              | Shaft sleeve    |
| 60      | 支腳              | Foot            |
| 654     | 扣環              | Retaining ring  |
| 71      | 軸承              | Radial bearing  |
| 71      | 軸承              | Radial bearing  |
| 830     | 油封              | Oil seal        |
| 831     | 油封              | Oil seal        |
| 84      | 墊片              | Gasket          |
| 87      | 機械軸封            | Mechanical seal |
| 90      | 填料              | Glang packing   |

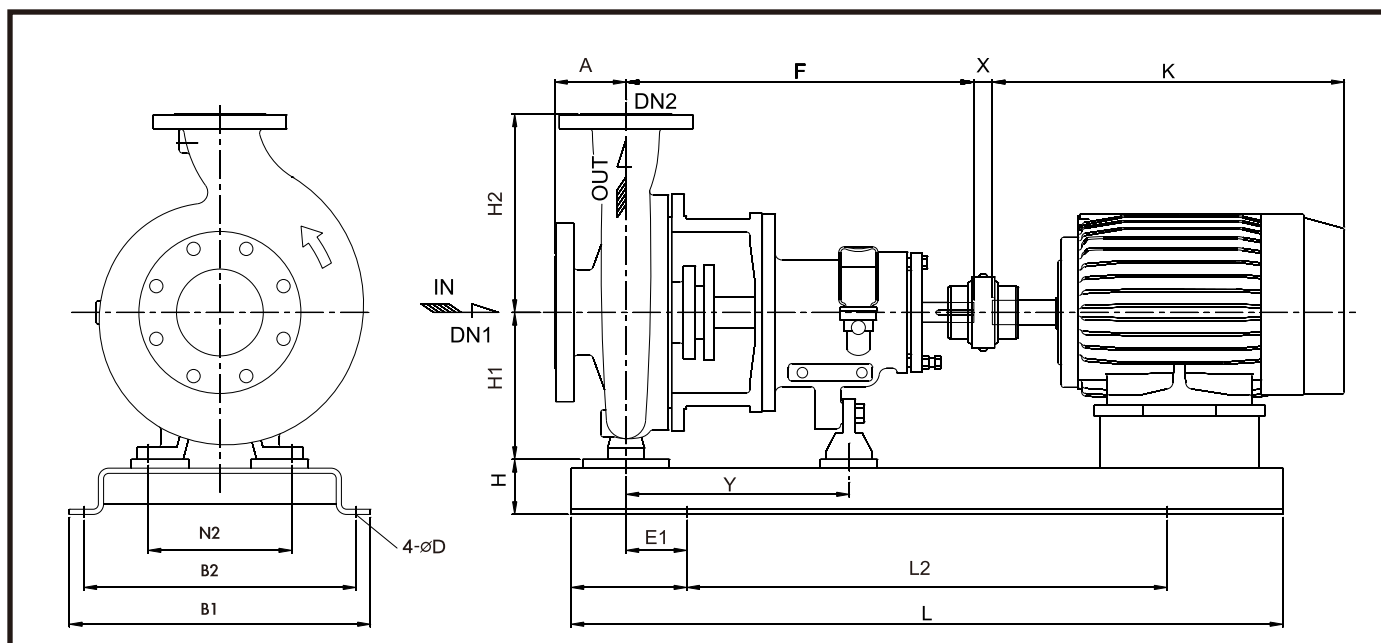
  

| 主要部份材質表(Material of main parts) |        |        |        |
|---------------------------------|--------|--------|--------|
| PART NAME                       | A      | B      | C      |
| 泵殼 Casing                       | FC250  | SCS13  | SCS14  |
| 葉輪 Impeller                     | SCS13  | SCS13  | SCS14  |
| 軸心 Pump shaft                   | SUS410 | SUS304 | SUS316 |
| 軸套 Shaft sleeve                 | SUS304 | SUS304 | SUS316 |
| 填料函 Stuffing box                | FC250  | SCS13  | SCS14  |
| 軸承箱 Bearing frame               | FC250  |        |        |

零件的互換性決定於軸與軸承系統,ST型,MT型,LT型,XLT型等,這些軸與軸承系統都可以針對客戶需求作特殊設計,以滿足製程應用之需求  
Parts interchangeable based on shaft bearing system, ST type, MT type, LT type and XLT type, special designed to meet differential application is available.



## 》尺寸表(Standard Dimensions)



註：小於50HP的泵浦底座是由厚鋼板成型製作 (Note: the base plate be fabricated by thick steel Sheet metal under 50hp)  
底座的尺寸(B1,B2,D,H,E1,L,L2,X,K)等是由馬達框號,聯軸器型號,與底座的製造方法等參數而決定  
,訂購前請與我們聯繫讓我們提供更詳細正確的資訊。

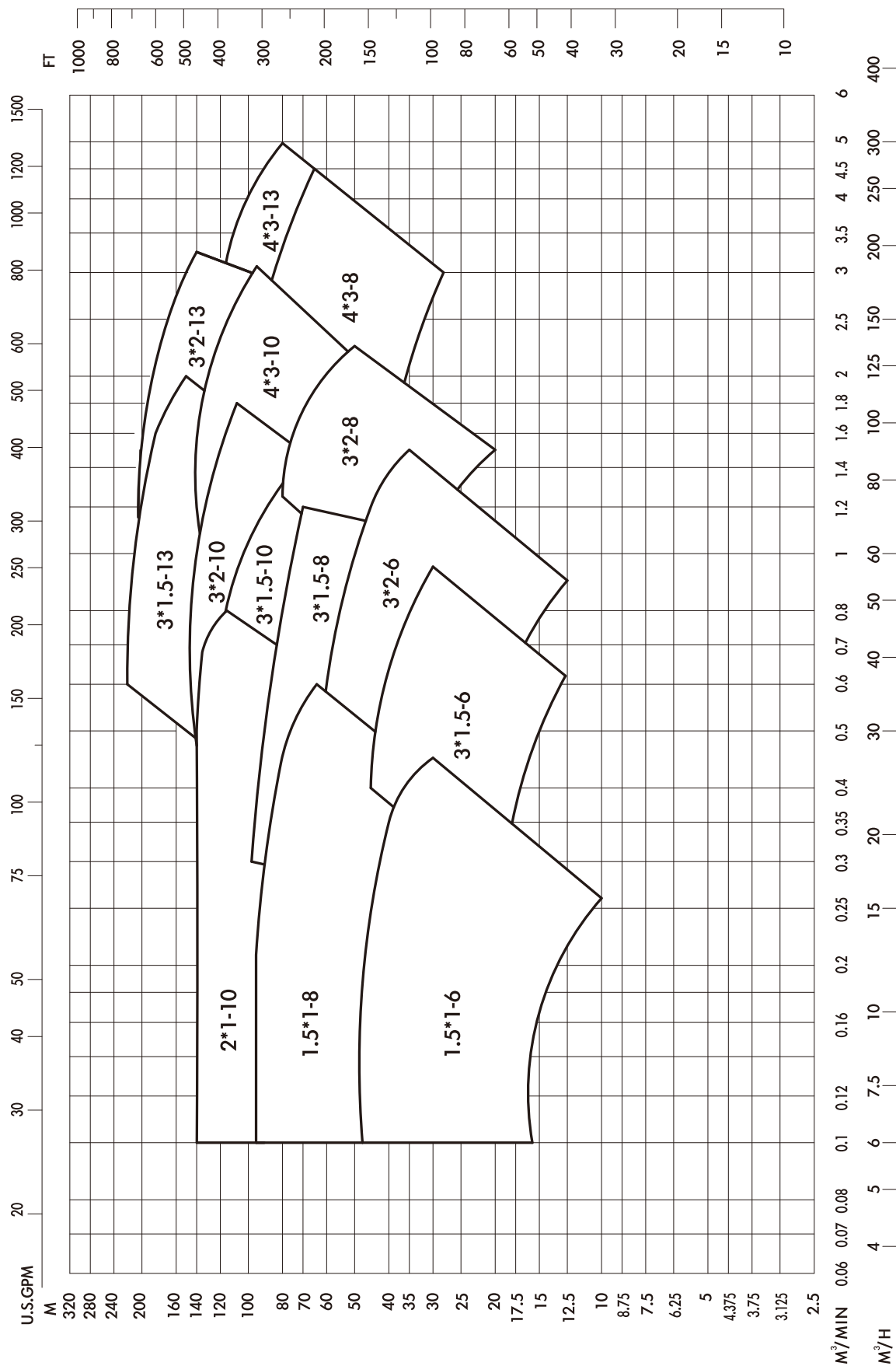
(Base plate relative dimension (B1,B2,D,H,E1,L,L2,X,K) depends on frame of motor, fabrication method and coupling type, please contact us to get more detail information before order.)

| 型號(Type) | 軸型式(Model) | 入口徑(Inlet) | 出口徑(Outlet) | A   | F   | H1  | H2  | N2  | Y   | 泵重(Kg) |
|----------|------------|------------|-------------|-----|-----|-----|-----|-----|-----|--------|
| 1.5*1-6  | ST         | 40         | 25          | 102 | 343 | 133 | 165 | 148 | 182 | 38     |
| 3*1.5-6  | ST         | 80         | 40          | 95  | 343 | 133 | 161 | 152 | 182 | 42     |
| 3*2-6    | ST         | 80         | 50          | 102 | 343 | 133 | 165 | 148 | 182 | 43     |
| 1.5*1-8  | ST         | 40         | 25          | 92  | 343 | 133 | 165 | 152 | 182 | 45     |
| 3*1.5-8  | ST         | 80         | 40          | 102 | 343 | 133 | 165 | 152 | 182 | 49     |
| 3*2-8    | MT         | 80         | 50          | 102 | 496 | 210 | 242 | 248 | 318 | 91     |
| 4*3-8    | MT         | 100        | 80          | 102 | 496 | 210 | 280 | 248 | 318 | 100    |
| 2*1-10   | MT         | 50         | 25          | 102 | 496 | 210 | 216 | 248 | 318 | 91     |
| 3*1.5-10 | MT         | 80         | 40          | 102 | 496 | 210 | 216 | 248 | 318 | 100    |
| 3*2-10   | MT         | 80         | 50          | 102 | 496 | 210 | 242 | 248 | 318 | 104    |
| 4*3-10   | MT         | 100        | 80          | 102 | 496 | 210 | 280 | 248 | 318 | 120    |
| 6*4-10   | MT         | 150        | 100         | 102 | 496 | 254 | 343 | 248 | 318 | 138    |
| 3*1.5-13 | MT         | 80         | 40          | 102 | 496 | 254 | 267 | 248 | 318 | 111    |
| 3*2-13   | MT         | 80         | 50          | 102 | 486 | 254 | 300 | 280 | 318 | 125    |
| 3*3-13   | MT         | 80         | 80          | 100 | 496 | 254 | 292 | 248 | 318 | 140    |
| 4*3-13   | MT         | 100        | 80          | 102 | 496 | 254 | 318 | 248 | 318 | 150    |
| 6*4-13   | MT         | 150        | 100         | 102 | 496 | 254 | 343 | 248 | 318 | 184    |
| 8*6-13   | XLT        | 200        | 150         | 152 | 708 | 368 | 406 | 405 | 476 | 254    |
| 10*8-13  | XLT        | 250        | 200         | 151 | 708 | 368 | 457 | 410 | 476 | 304    |
| 8*6-15   | XLT        | 200        | 150         | 152 | 708 | 368 | 457 | 405 | 476 | 277    |
| 10*8-15  | XLT        | 250        | 200         | 152 | 708 | 368 | 483 | 406 | 476 | 336    |
| 10*8-15G | XLT        | 250        | 200         | 152 | 708 | 368 | 483 | 407 | 476 | 322    |



ALL STAR PUMP ENTERPRISE CO.,LTD. MODEL:W96 60HZ:3540R.P.M

性能選擇表 PERFORMANCE RANGES





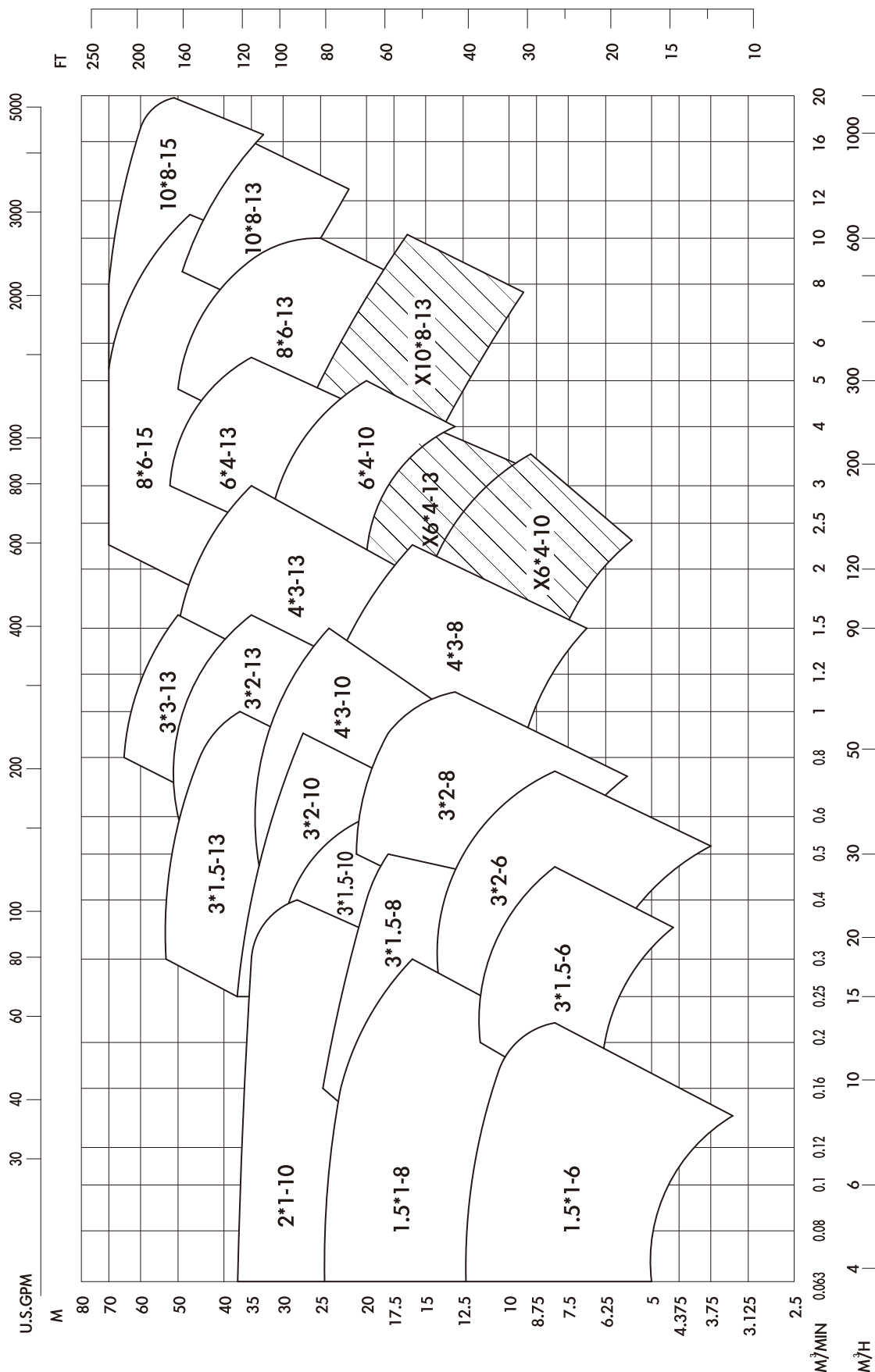
萬事興  
ALL STAR PUMP

# 單級端吸離心製程泵浦 W96

W96 Chemical Process Pump

ALL STAR PUMP ENTERPRISE CO.,LTD. MODEL:W96 60HZ:1750R.P.M

## 性能選擇表 PERFORMANCE RANGES



備註: (X=1180RPM/6P)



萬事興  
ALL STAR PUMP

# 單級端吸離心製程泵浦 W96

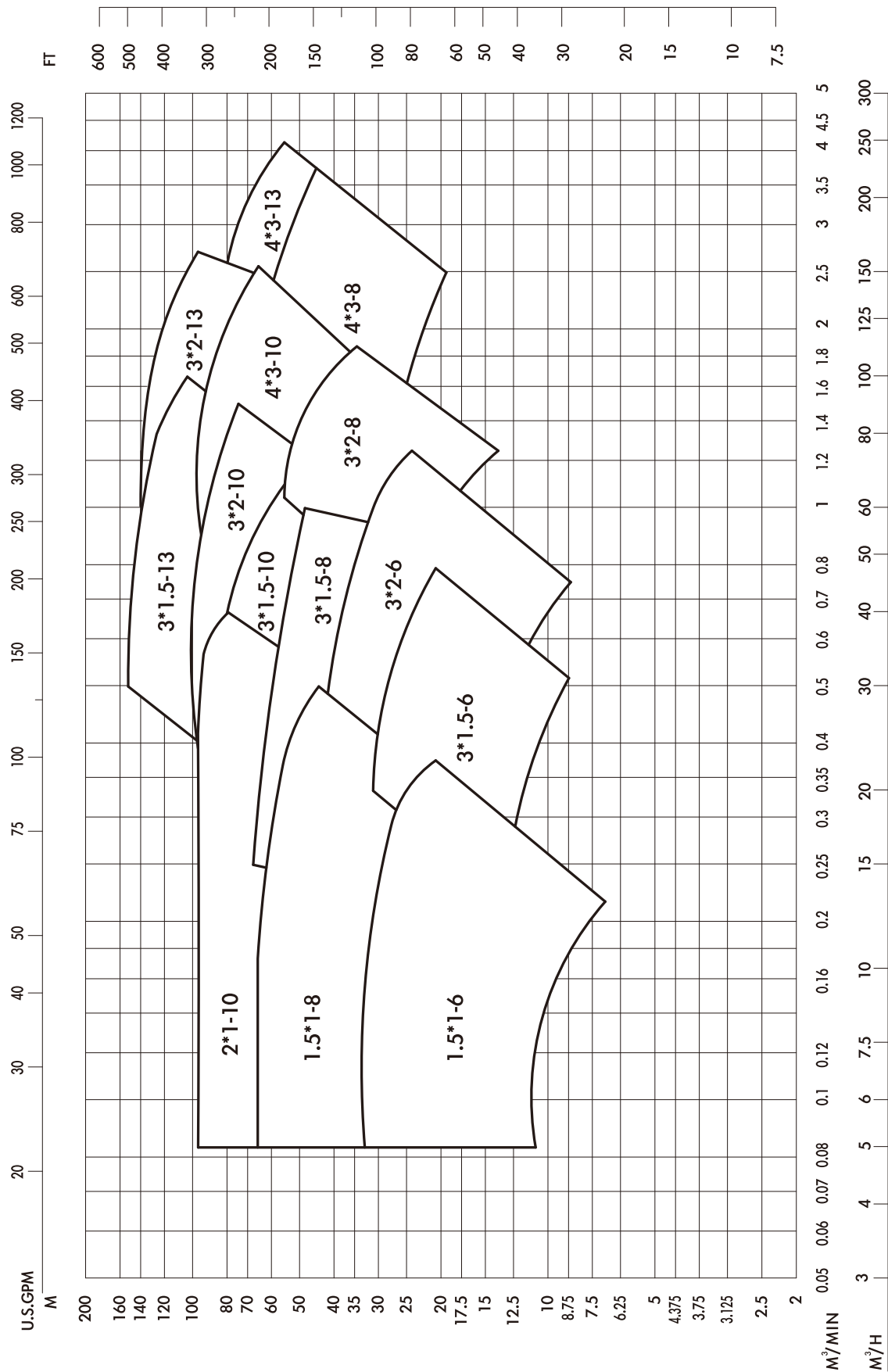
W96 Chemical Process Pump

50HZ:2940R.P.M

MODEL:W96

ALL STAR PUMP ENTERPRISE CO.,LTD.

## 性能選擇表 PERFORMANCE RANGES





萬事興  
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# 單級端吸離心製程泵浦 W96

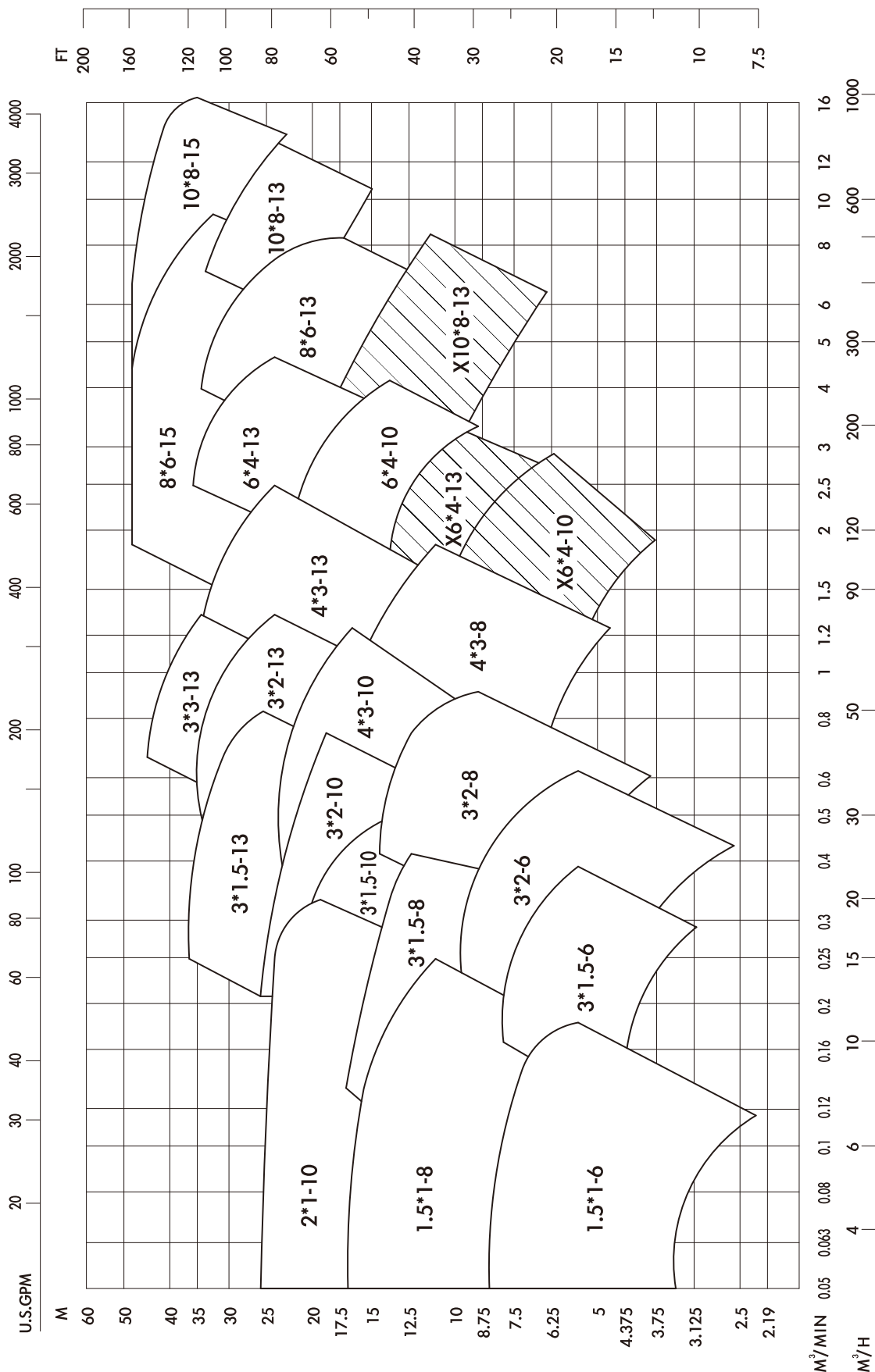
W96 Chemical Process Pump

ALL STAR PUMP ENTERPRISE CO.,LTD.

MODEL:W96

50HZ:1450R.P.M

## 性能選擇表 PERFORMANCE RANGES



備註: (X=980RPM/6P)



## 》如蒙洽詢請指示下列各項

In sending your enquiry or order, please inform us with the following Informations in detail:

1. 出水量(Capacity): \_\_\_\_\_  $\text{m}^3/\text{min}$ , \_\_\_\_\_ US.GPM or \_\_\_\_\_ IMP. GPM .
2. 總揚程(Total head): \_\_\_\_\_ m or \_\_\_\_\_ feet
3. 液體(Liquid): \_\_\_\_\_
4. 液體溫度(Temperature of liquid): \_\_\_\_\_  $^{\circ}\text{C}$  or \_\_\_\_\_  $^{\circ}\text{F}$
5. 紙漿濃度(Pulp consistency): \_\_\_\_\_ %
6. 比重(Specific gravity): \_\_\_\_\_
7. 酸鹼度(P.H.): \_\_\_\_\_
8. 運轉溫度下之蒸氣壓力(Vapor pressure at operating temperature):  
\_\_\_\_\_  $\text{kg}/\text{cm}^2$ , or \_\_\_\_\_ PSIA
9. 可用之淨有效吸入揚程(NPSH available): \_\_\_\_\_ m or \_\_\_\_\_ feet
10. 泵浦迴轉數(Pump speed): \_\_\_\_\_ rpm
11. 驅動馬達出力(Driven motor output): \_\_\_\_\_ KW or \_\_\_\_\_ HP
12. 電源特性(Electric characteristics):  
\_\_\_\_\_ Phase \_\_\_\_\_ Cycle \_\_\_\_\_ Volts



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