

# VAS

**變頻恆壓給水系統**  
CONSTANT PRESSURE WATER PUMP  
SYSTEM CONTROL BY INVERTER



泵浦 曝氣系統 廢水處理機械

TAF水泵實驗室認證合格廠  
品質管理系統ISO 9001



綠色 · 安全 · 永續經營

**川源股份有限公司**

GSD INDUSTRIAL CO., LTD.

## 簡介 INTRODUCTION

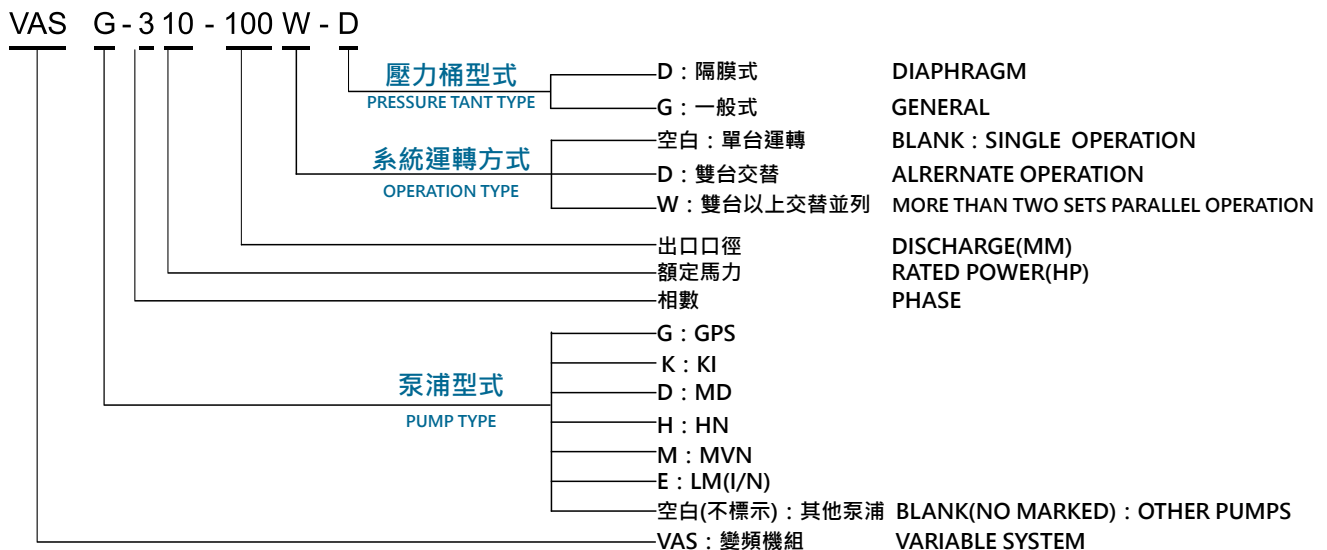
VAS變頻式恆壓給水系統，利用變頻式控制器控制泵浦運作，達到省電力、壓力穩定運作平穩，壽命增加及施工容易...等優點，亦可依現場實際需求設計控制流程，節省人力電力，目前已漸取代定速型加壓泵浦給水系統，被廣泛使用於學校、工廠、大樓一般給水、工地給水、醫院...等水壓不足的場所。

The VAS system uses a variable frequency controller and interter-duty motors to control the pump operation to save power, operating stably under pressure, keeping longer product life and constructing easily. System can be designed by the control process according to the actual needs of the site, saving manpower and electricity, and it has replaced the fixed-speed pressurized pump water supply system. The VAS system is widely used in schools, factories, buildings water supply, construction water supply, hospitals or other places with insufficient water pressure.

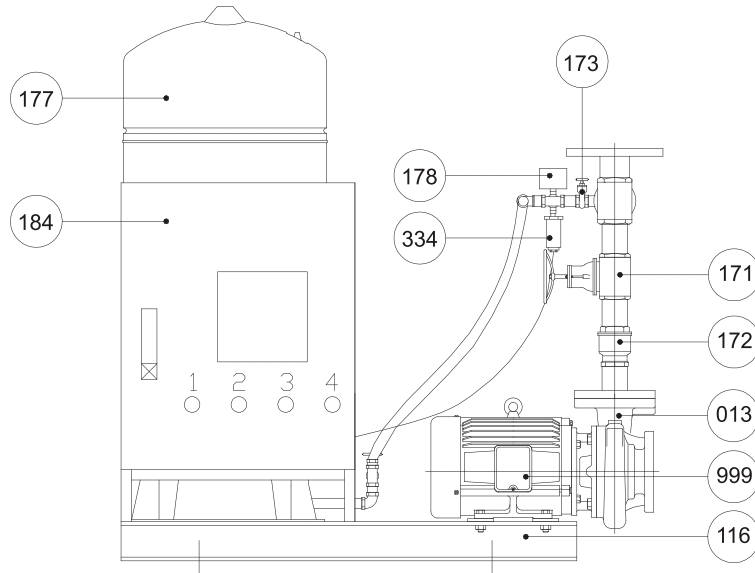
## 特點 FEATURE

- ▶ 省電力、效率高、安全性高  
採用變頻器控制回轉速變化，利用回轉速變化達到泵浦節省電力功能，提高整套系統使用效率，降低泵浦運轉費用，變頻器內建多項保護裝置，開關為接點式，安全性高。
- ▶ Power saving, high efficiency, high safety  
The frequency converter is used to control the change of the r.p.m., and use this change of the cadence is used to achieve the power saving function of the pump and improve the efficiency of the entire system. Reduce pump operation costs, The frequency converter is set multiple protection devices and it is high security that the switch is a contact type.
- ▶ 給水壓力穩定  
採用變頻器與壓力比例器控制，依使用壓力變化經感測器感應傳輸信號至壓力比例器控制壓力，保持恆壓設定值，給水壓力穩定，完全改善定速泵因壓力不穩定而水量忽大忽小的現象。
- ▶ Water supply pressure Stably  
Using inverter and pressure proportional control, according to the pressure changed, the sensor transmits the signal to the pressure proportional controller to control the pressure. Maintaining constant pressure setting value and the water supply pressure stably, and water volume of the fixed-speed pump fluctuates due to unstable pressure is improved.
- ▶ 啟動、停止平穩、增加泵浦壽命  
泵浦啟動和停止，利用變頻方式平穩運作，減低泵浦啟動頻繁對系統之影響。停止時，系統經感測器感應壓無變化、無使用水時，泵浦能緩慢停機，無水槌現象發生，降低管路漏水機會，泵浦壽命增加。
- ▶ Start and stop smoothly, extending pump life  
Pump start and stop, operating smoothly with frequency conversion, reducing the impact of frequent pump start on the system. When the system stops, the pressure of the system through the sensor does not change and there is no using-water, the pump can stop slowly with no water hammer occurs, which reduces leakage of pipeline water and extends the pump life.
- ▶ 施工容易、安裝簡便、節省空間  
本系統泵浦、管路、控制箱安裝於共同機座，施工時只需安裝入、出水管及電源即可運轉使用，壓力桶容積較定速泵浦小，節省裝置壓力桶空間。
- ▶ Easy construction, simple installation, and space saving  
The pump, pipeline, and control box of the system are installed on the same baseplate. During construction, only the inlet and outlet pipes and power supply are installed that be able to operate. The volume of the pressure tant is smaller than the fixed-speed pump, which saves space for installation of pressure tant.

## 型號說明 TYPE DESCRIPTION



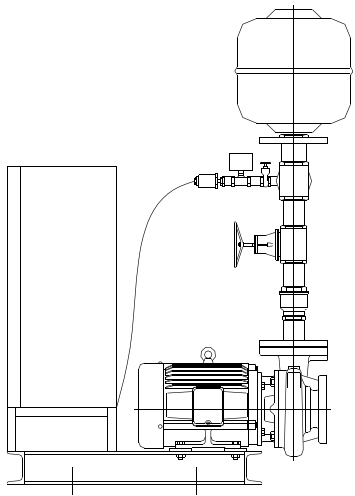
# 結構示意圖(詳如各機型之技術資料) CONSTRUCTIONS SHEMATIC DIAGRAM



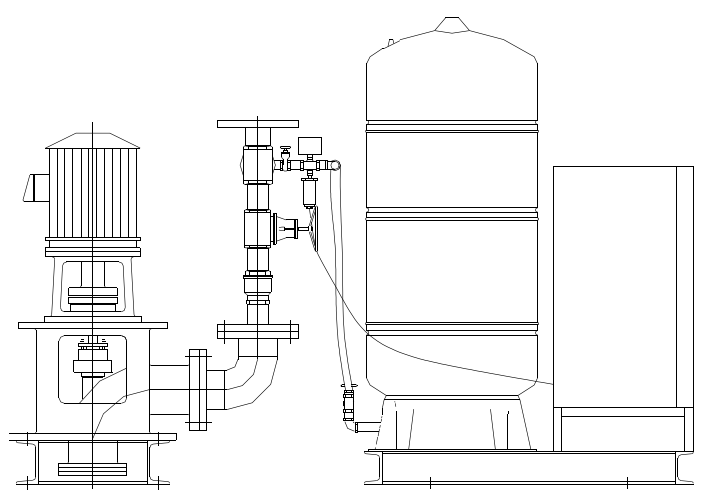
編號 NO.	名稱 NAME	材質 MATERIAL			功能簡述 FUNCTION
13	泵浦 PUMP	FC200	SCS13	SCS14	採用川源本廠泵浦·依客戶需求而有多種不同的泵浦型式及口徑可供選擇·達到低噪音、高效率的需求 Using CMSA pumps, there are a variety of different pump types and diameters to choose from according to customer needs, to meet the needs of low noise and high efficiency
116	共同基座 PLATEBASE	SS400			採用型鋼焊成一體·便於安裝 It is welded into a whole with section iron for easy installation
334	壓力傳感器 PRESSURE TRANSDUCER	AISI 303			感應系統壓力變化·檢出壓力比例·分為 0~4bar、0~10bar 兩種·保護等級為 IP67 Sensing the pressure change of the system and detecting the pressure ratio, which can be divided into two types: 0~4bar and 0~10bar. The protection level is IP67.
171	閘門閥(法蘭式) VALVE (FLANGE ENDS) 閘門閥(牙口式) VALVE (THREAD ENDS)	FC200	SCS13		控制泵浦是否出水 Control the water quantity in pump operation.
		BC6			
172	逆止閥(法蘭式) CHECK VALVE (FLANGE ENDS) 逆止閥(牙口式) CHECK VALVE (THREAD ENDS)	FC200	SCS13		防止出水逆流·保護泵浦· Prevent backflow of water and protect the pump.
		BC6			
173	閘門凡而 VALUE	BC6			控制壓力桶是否出水 Control whether the pressure tank discharges water
177	壓力桶 PRESSURE TANK	隔膜式 Diaphragm Type	SS400(18L·100L)	SUS304(12L·18L)	最高工作溫度 75°C Maximum working temperature : 75°C 操作壓力範圍 Operating pressure range 12L : 1~4bar 18L、100L : 1~8bar
			一般式 General Type		SS400/SUS304 (12L、24L、100L)
178	壓力開關 PRESSURE SWITCH				此項為選擇配件·可於變頻系統故障時採用壓力開關控制·雙重保障系統用水的穩定與正常·分別使用 2~1、3~1.5、4~2、5~2.5、6~3、8~4、10~5kg/cm <sup>2</sup> 的壓力調整範圍·使高、低壓分別得到最佳設定及調整範圍·達到系統穩定運轉需求。 This item is an optional accessory. It can be controlled by a pressure switch when the frequency conversion system fails. It doubles the stability and normality of the system water. Use the pressure adjustment range of 2~1, 3~1.5, 4~2, 5~2.5, 6~3, 8~4, 10~5kg/cm <sup>2</sup> respectively enables the optimal setting and adjustment range of high and low pressures to meet the requirements of stable operation of the system.
184	控制箱 CONTROL BOX	屋內型 Indoor type / 屋外型 Outside type			1. 採用知名品牌變頻器·具多項保護功能·確保系統正常運作·可有效增加移報接點·供儀控中心監視用水系統狀態·操作設定簡單。 Use well-known brand inverters with multiple protection functions to ensure the normal operation of the system. It can effectively increase the reporting contacts for the instrument control center to monitor the state of the water system. The operation and setting are simple. 2. 採用壓力比例控制器·具自動演算功能·補正速度快·設定簡單·維護容易。 Use pressure proportional controller, with automatic calculation function, correction keeping speedy, simple setting and easy maintenance. 3. 保護功能: 過電壓、過電流、低電壓、外部異常中斷、馬達過載、接地保護、驅動器過載、驅動器過熱、電子熱動電驛。 Protection function: over voltage, over current, low voltage, external abnormal interruption, motor overload, grounding protection, driver overload, driver overheating, electronic thermal relay.
		SS400	SUS304(12L·18L)		
999	馬達 MOTOR	大同 TATUNG/東元 TECO			採用大同/東元馬達·功能穩定·互換性大·維護容易·可直接由變頻器控制轉速變化·達到節能要求。 Use TATUNG/TECO motors, which have stable functions, high interchangeability, and easy maintenance. The speed change can be directly controlled by the inverter for energy-saving requirements.

※此機型為訂製品·請索取單張結構圖、外型圖及性能曲線圖。 Specified performance or specification is available on request.  
※其他材質可依客戶需求製作。 Detail information, please refer to the specific performance curve sheet.

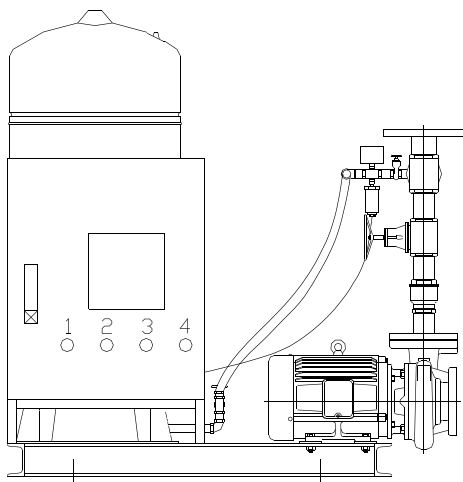
機型外觀示意圖(搭配不同的泵浦型式詳如各機型之技術資料)  
 MODEL SHEMATIC DIAGRAM



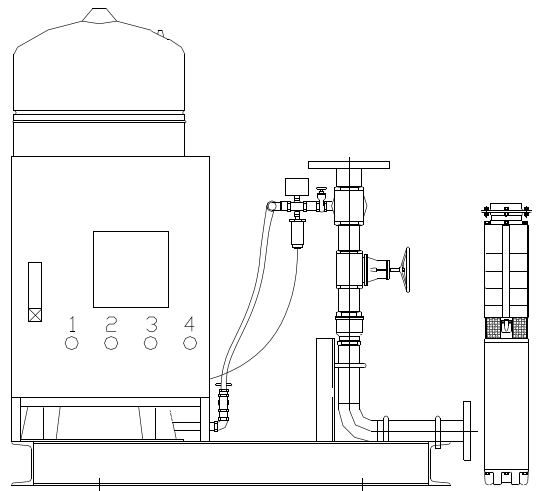
VASG(GPS) 壓力桶 12L、24L



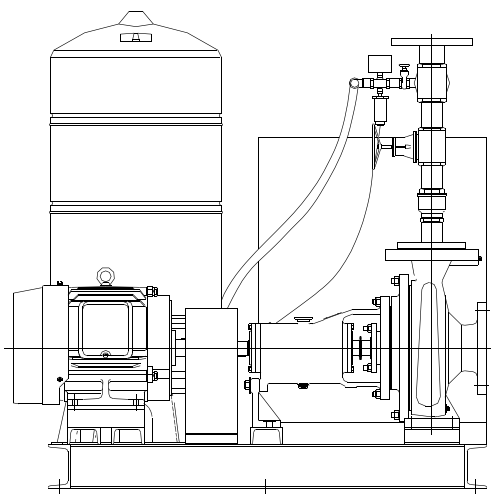
VASM(MVN)



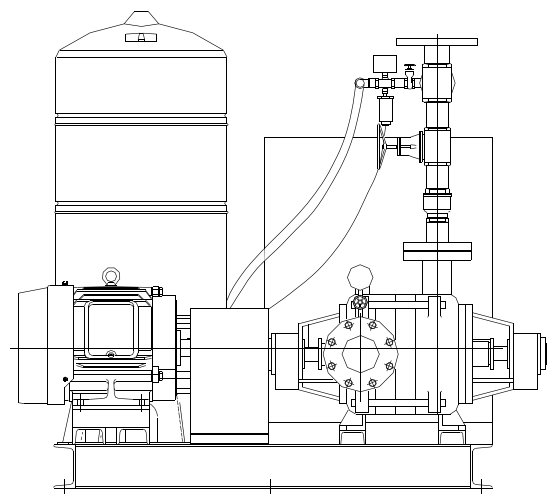
VASG(GPS)



VASH(HN)



VASK(KI)



VASD(MD)



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GSD INDUSTRIAL CO., LTD.



Changeable Market 以卓越的行動力  
should be satisfied with Superior  
滿足市場快速變化 Action

VAS-202104

Contact CMSA, scan now!



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