

YW系列立式液下污水泵(API610 VS4/VS5)

YW SERIES Vertical semi-submersible sump pump(API610 VS4/VS5)



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联系方式

<http://www.ljpump.cn>(中文) <http://www.perfect-pump.com>(英文)

地址/Add: 湖南省长沙市天心区韶山南路828号
No. 828, Shaoshan South Road, Tianxin
District, Changsha City, Hunan Province

销售/Sales: +86-18507312158 15111351988

技术/Technical: +86-731-85580727

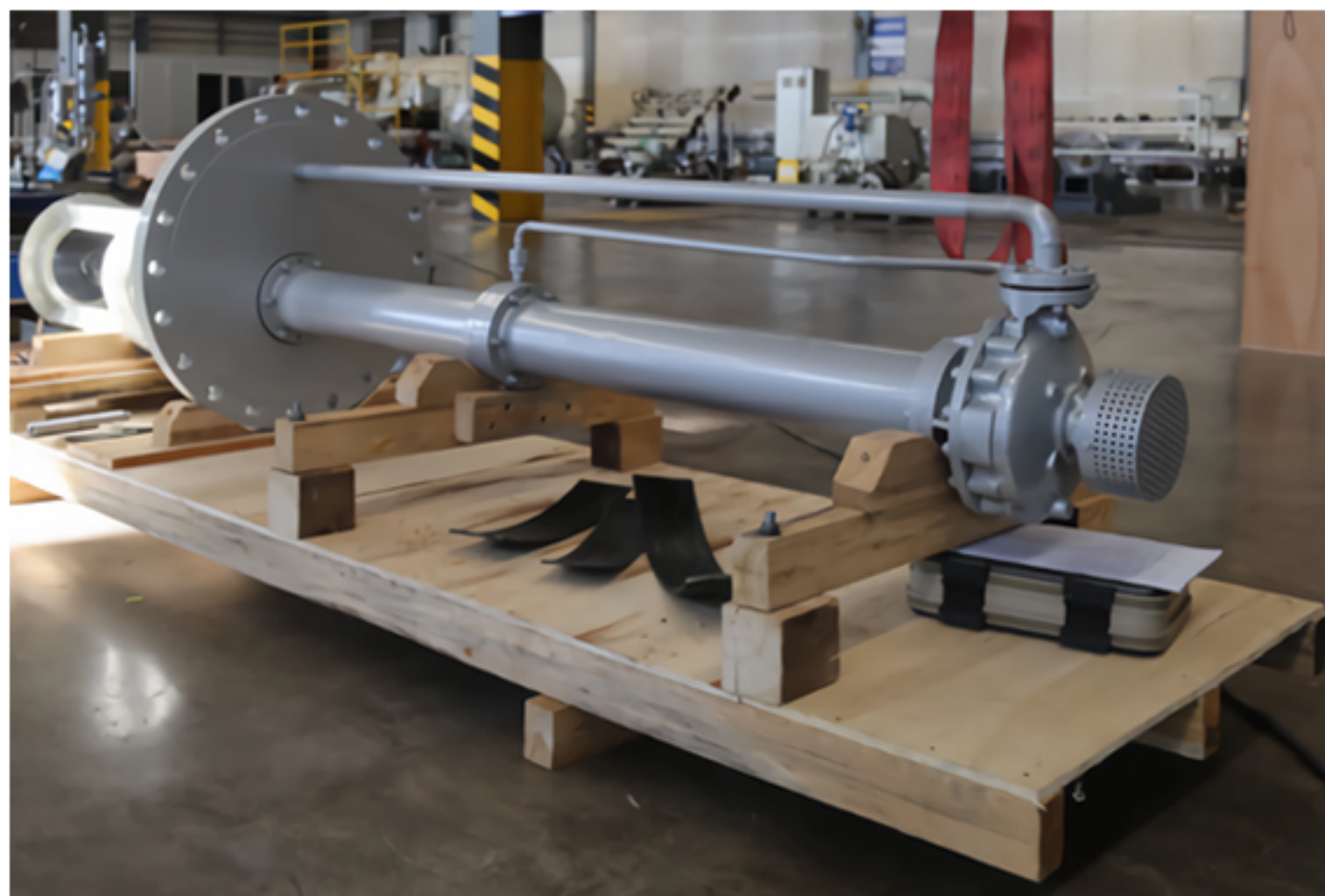
网址/Website: <http://www.ljpump.cn>

邮箱/E-mail: sale@ljpump.net

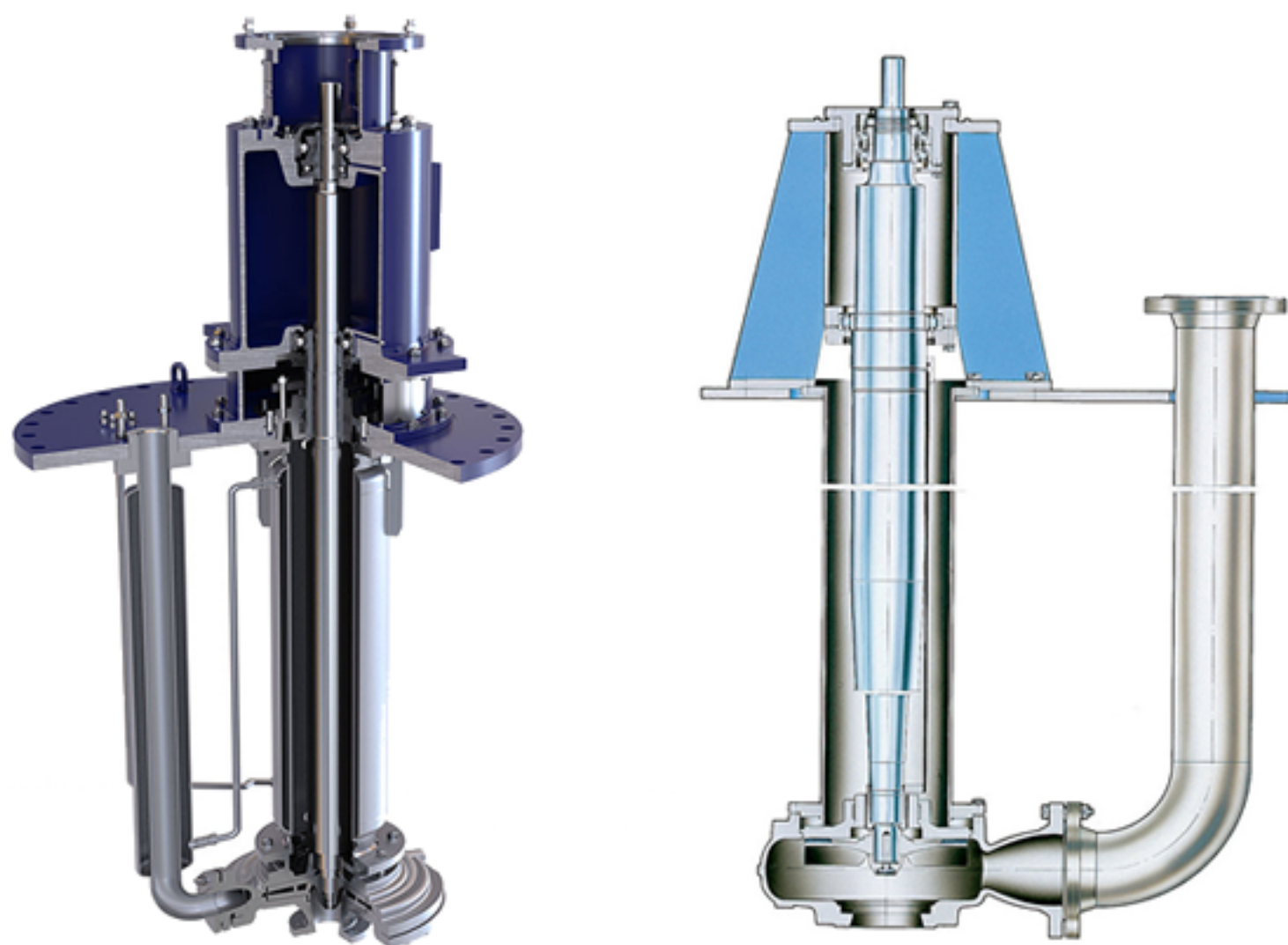
湖南立佳机械制造有限公司

Hunan Perfect Industry Co.,ltd

实物图/Physical image



剖面图 / Section view



概述

YW型无堵塞液下排污泵是立式、悬臂、单壳体、离心式液下泵，是我公司在引进先进水力模型及国际上先进的固、液两相流理论技术的基础上，结合国内水泵的使用特点而研制成功的专用于工况严酷的输送各类污水的产品，是按最小水力损失和最低磨损原则设计的新型抗磨耐腐型立式液下泵，具有节能效果显著、防缠绕、无堵塞等特点，在排送微颗粒和污水废水方面，具有独特效果。

YW系列液下污水泵采用三维、CFD计算流体动力学计算模拟设计，过流部件的几何形状符合介质的流动状态，减少了涡流和撞击等局部与沿程水力损失，从而减轻了过流部件的磨损。该系列泵具有规格齐全、型谱范围广，结构新颖，高效节能，振动小、运行可靠、使用寿命长等显著特点，而且由于它特有的安装形式，而大大拓展了应用工况和使用场合，选用不同的水力模型和支承型式，广泛适用于各行业输送含有渣浆、氧化铁皮渣、粉煤灰、焦化物等颗粒介质的各种废水及污水。

YW系列液下污水泵使用独特叶轮结构和新型机械密封，叶轮与传统叶轮相比，该泵叶轮采用单流道式或双流道式，它类似于一个截面大小相同的弯管，具有非常好的过流性，配以合理的蜗室，使得该泵具有效率高，过流效果好的特点，叶轮经动静平衡试验，使泵在运行中无振动。该泵水力性能先进、成熟，产品经测试各项性能指标均达到有关标准规定，产品投放市场后以其独特的功效，可靠的性能，稳定的质量受到广大用户的欢迎和好评。

产品的设计、制造和质量符合ISO2858、GB/T5656、B/T8096、GB/T 3215、API 610标准，泵振动烈度符合GB/T 29531-2013《泵的振动测量与评价方法》中B级规定。泵音符合GB/T 29529-2013《泵的噪音测量与评价方法》中C级规定。

Overview

The YW type non-clogging submersible sewage pump is a vertical, cantilever, single-shell, centrifugal submersible pump. It is a combination of our company's introduction of advanced hydraulic models and internationally advanced solid and liquid two-phase flow theory and technology. This product was successfully developed based on the usage characteristics of domestic water pumps and is specially used to transport various types of sewage under severe working conditions. It is a new type of anti-wear and corrosion-resistant vertical submersible pump designed according to the principles of minimum hydraulic loss and minimum wear. It has significant energy-saving effects and it is anti-winding and non-clogging and has unique effects in discharging micro-particles and sewage and wastewater.

The YW series submersible sewage pump adopts three-dimensional and CFD computational fluid dynamics simulation design. The geometry of the flow-passing parts conforms to the flow state of the medium, reducing local and along-process hydraulic losses such as eddy currents and impacts, thereby reducing the wear and tear of the flow-passing parts. wear and tear. This series of pumps have complete specifications, a wide range of models, novel structure, high efficiency and energy saving, small vibration, reliable operation, long service life and other notable features. Moreover, due to its unique installation form, it greatly expands the application conditions and usage occasions. Using different hydraulic models and support types, it is widely used in various industries to transport various wastewater and sewage containing granular media such as slurry, iron oxide scale slag, fly ash, coke, etc.

The YW series submersible sewage pump uses a unique impeller structure and a new type of mechanical seal. Compared with the traditional impeller, the impeller of this pump adopts a single flow channel type or a double flow channel type. It is similar to an elbow with the same cross-section size. It has very good The excellent overflow performance and reasonable volute chamber make the pump have the characteristics of high efficiency and good overflow effect. The impeller has undergone dynamic and static balance tests, making the pump vibration-free during operation. The hydraulic performance of this pump is advanced and mature. All performance indicators of the product have been tested and have reached relevant standards. After being put on the market, the product has been welcomed and praised by the majority of users for its unique efficacy, reliable performance and stable quality.

The design, manufacturing, and quality of the product comply with ISO2858, GB/T5656, B/T8096, GB/T 3215, and API 610 standards. The vibration intensity of the pump conforms to the regulations of Class B in the GB/T 29531-2013 Vibration Measurement And Evaluation Method of The Pump. Pump noise conforms to the regulations of Class C in GB/T 29529-2013 Pump Noise Measurement and Evaluation Method.



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应用领域 / Application field

- 适合矿山、冶金、电力、煤炭、化工、建材、钢厂、电厂、煤厂、水务、医院、市政、制药、建筑、宾馆、饭店、海水抽排等行业及烟气脱硫的外围系统。

用于输送带颗粒、纤维的磨蚀性或腐蚀性工业污水、城市生活污水或雨水、清水也可用于某些化工流程，特别适用于：污水处理、水泥厂、发电厂、石油化工等行业。

- Suitable for industries such as mining, metallurgy, electricity, coal, chemical engineering, building materials, steel mills, power plants, coal plants, water services, hospital municipal engineering, manufacturing, construction, hotels, restaurants, seawater extraction, and peripheral systems for flue gas sulfur. Used for conveying abrasive or corrosive industrial wastewater, urban domestic wastewater or rainwater, and clean water of particles and fibers in certain chemical processes, especially suitable for industries such as sewage treatment, cement plants, power plants, and petrochemical industry.



工作条件 / Working Condition

- 出口直径：DN50 ~ DN350 mm
- 运行方式：工频或变频
- 设计压力：1.0 或 2.0MPa
- 水压试验：1.5 倍设计压力，时间 30 分钟
- 安装形式：立式、直联、湿坑
- 基础以下深度：0.6~6m
- Outlet diameter：DN50 ~ DN350 mm
- Running mode：Power frequency or frequency conversion
- Design pressure：1.0 or 2.0MPa
- Hydrostatic test：1.5 times of design pressure, 30 minutes
- Installation：Vertical, direct connection, wet pit
- Depth below foundation：0.6~6m

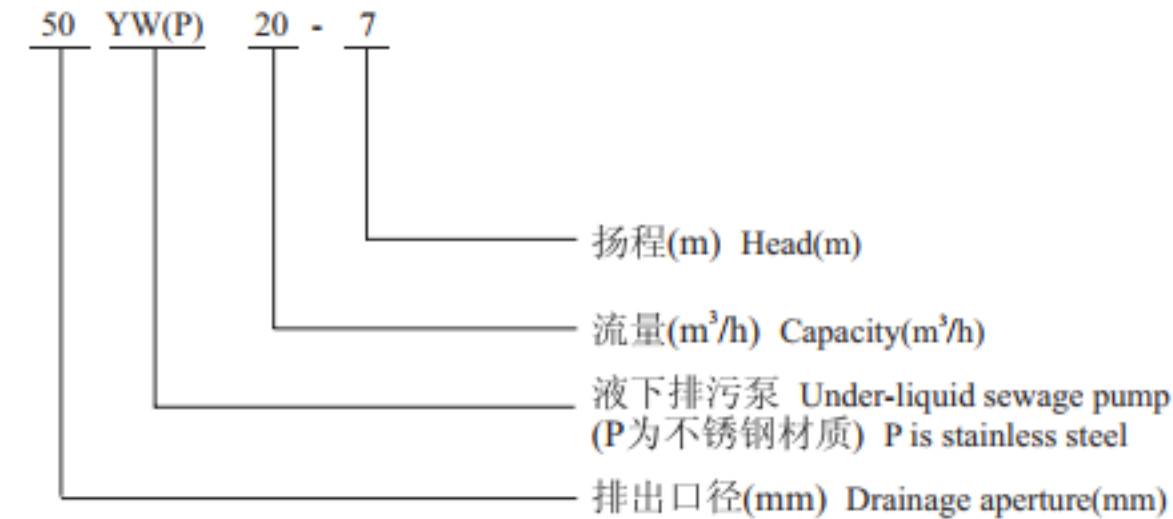
性能范围

- 流量为5-640m³/h，扬程为6-100m。
- 输送介质温度：T ≤ 200℃
- 介质浓度（重量浓度）：≤70%
- 固体颗粒直径：≤30mm
- 杂质硬度：HRC≤45

Performance range

Flow rate: 5-640m³/h
Head: 6-100m
Transmission medium temperature: T ≤ 200 °C
Medium concentration (weight concentration): ≤ 70%
Solid particle diameter: ≤ 30mm
Impurity hardness: HRC ≤ 45

型号意义/Model definition



产品优势/ Product advantage:

1、高效节能：水力模型采用三元流理论设计及 CFD 仿真模拟计算，性能达到理论最佳。水力部件均采用金属模具，叶轮毛坯精密铸造，半成品数控加工；导叶叶片模具数控加工，导叶壳体及吸入喇叭口毛坯树脂砂铸造，实体流道完全还原设计图纸，效率比市场同类产品提高 3~5%，且高效区宽。

2、高可靠性：进水流道设计合理，进水均匀无旋涡，运行平稳。泵轴绝对同心度及转子部件极好的动静平衡，保证泵在高速运转时振动小、噪音低。

3、低投入：结构紧凑，占地面积少，较小的淹深和土建挖深即可满足水泵使用要求，节省土建投资。

4、低维护：结构合理，装拆方便，维护简便。

1. High-efficiency energy saving: the hydraulic model is designed by the 3-D flow theory and calculated by CFD computational simulation, with the best performance in theory. Hydraulic components are made of metal mold, impeller blanks are cast precisely, and semi-finished products are machined by CNC; guide blade mould is machined by CNC, guide blade shell and suction cone blank are cast by resin sand, solid flow channel is completely in accordance with design drawings, with efficiency 3~5% higher than similar products, and wide high efficiency zone.

2. High reliability: the design of the inlet flow channel is reasonable, the inlet water is uniform without vortex, with smooth running. The absolute concentricity of the pump shaft, and the excellent dynamic and static balance of the rotor parts ensure that the pump has low vibration and low noise when running at high speed.

3. Low input: compact structure, small area, small flooding depth and civil excavation depth can meet the requirements of water pump use, but also save civil investment.

4. Low maintenance: reasonable structure, convenient assembly and disassembly, and simple maintenance.

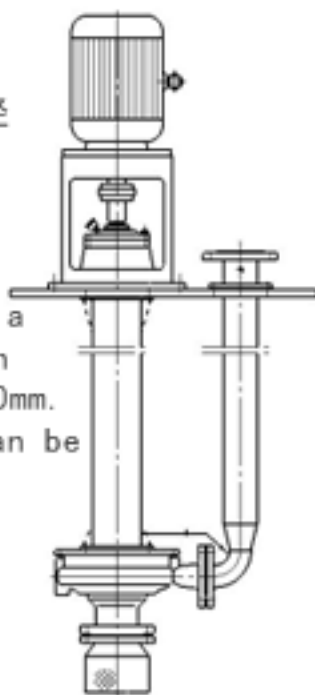
产品分类/Product Categories

污水液下泵结构图

Structural diagram of sewage submerged pump

- 输送固体颗粒浓度 < 20%，直径 < 100mm 的污水；
- 介质温度为 -10℃ ~ +80℃。

- Transporting sewage with a solid particle concentration of < 20% and a diameter of < 100mm.
- The medium temperature can be between -10 °C and 80°C .

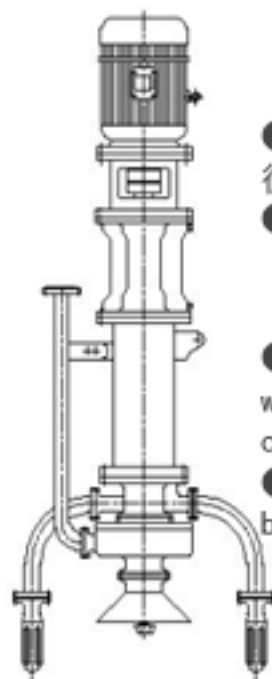


多吸头液下泵结构图

Structure diagram of multi suction head submerged pump

- 适用于输送固体颗粒浓度 < 30~45%，直径 < 100mm 的污水；
- 介质温度为 -10℃ ~ +80℃。

- Suitable for transporting sewage with solid particle concentration < 30~45% and diameter < 100mm.
- The medium temperature can be between -10 °C and 80°C .



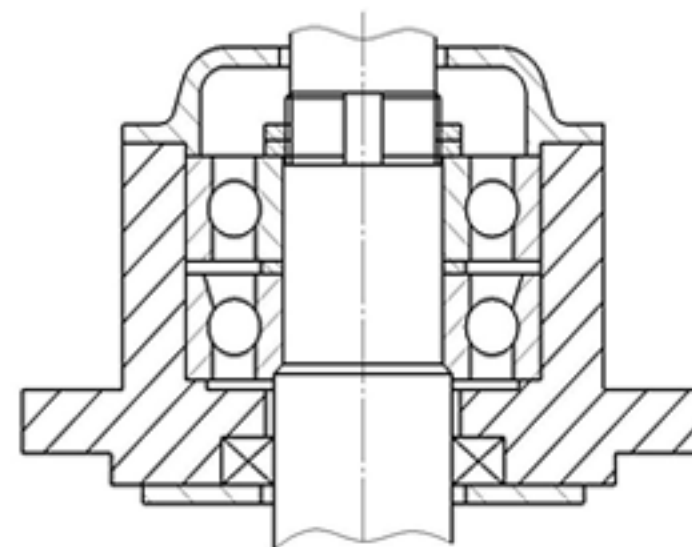
冷却方案

API 方案 R1

API solution R1

轴承箱采用自然冷却。

The bearing box adopts natural cooling.

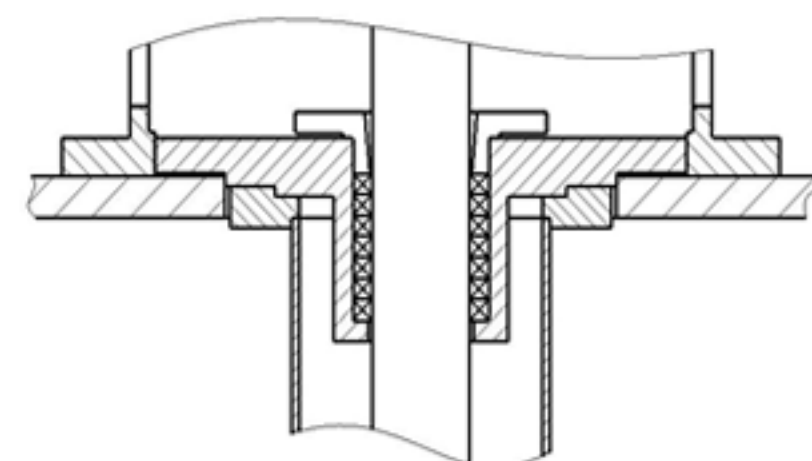


API 方案 R2

API solution R2

填料箱采用自然冷却。

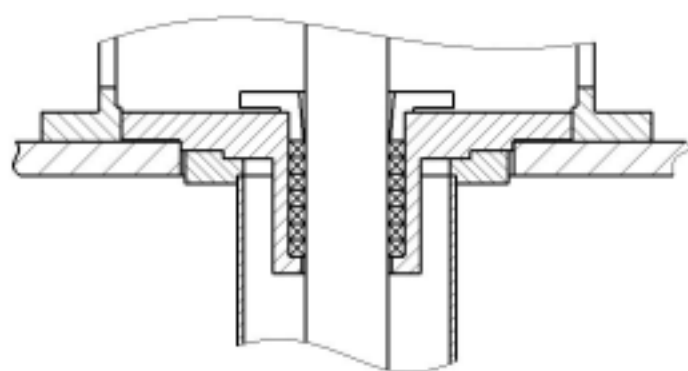
The stuffing box adopts natural cooling.



密封方案/Sealing scheme

填料密封无冷却方案

Packing sealing without cooling scheme



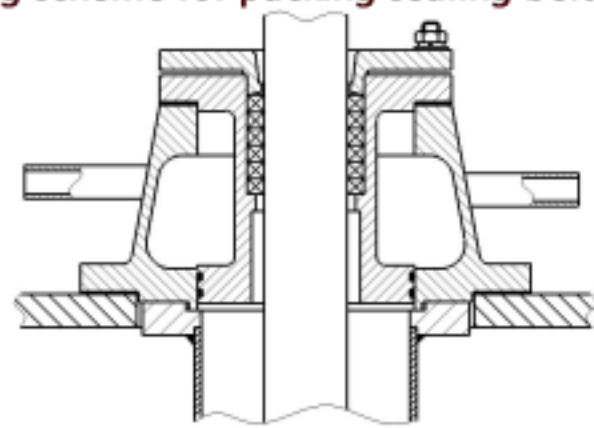
- 此方案适用于输送各种易燃、易爆、易挥发的化工腐蚀性介质；
- 介质温度 -20℃ ~ 150℃，特殊需要要时可 -40℃ ~ 150℃。

- This plan is suitable for transporting various flammable, explosive, and volatile chemical corrosive media.

- The medium temperature can be between -20 °C and 150°C , and it can be between 40°C and 150°C for special needs.

填料密封带冷却方案

Cooling scheme for packing sealing belt



- 此方案适用于输送各种易燃、易爆、易挥发的化工腐蚀性介质；
- 介质温度 150℃ ~ 450℃

- This plan is suitable for transporting various flammable, explosive, and volatile chemical corrosive media.

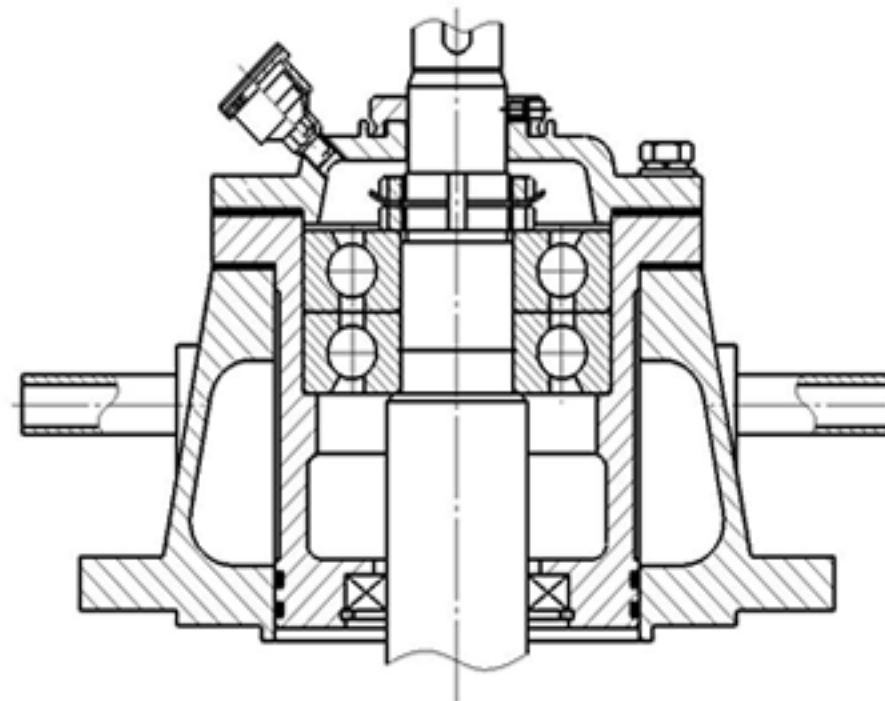
- The medium temperature can be between 150 °C and 450°C .

API 方案 D

API solution D

冷却水通往轴承箱急冷或保温。

Cooling water leads to rapid cooling or insulation of the bearing box.

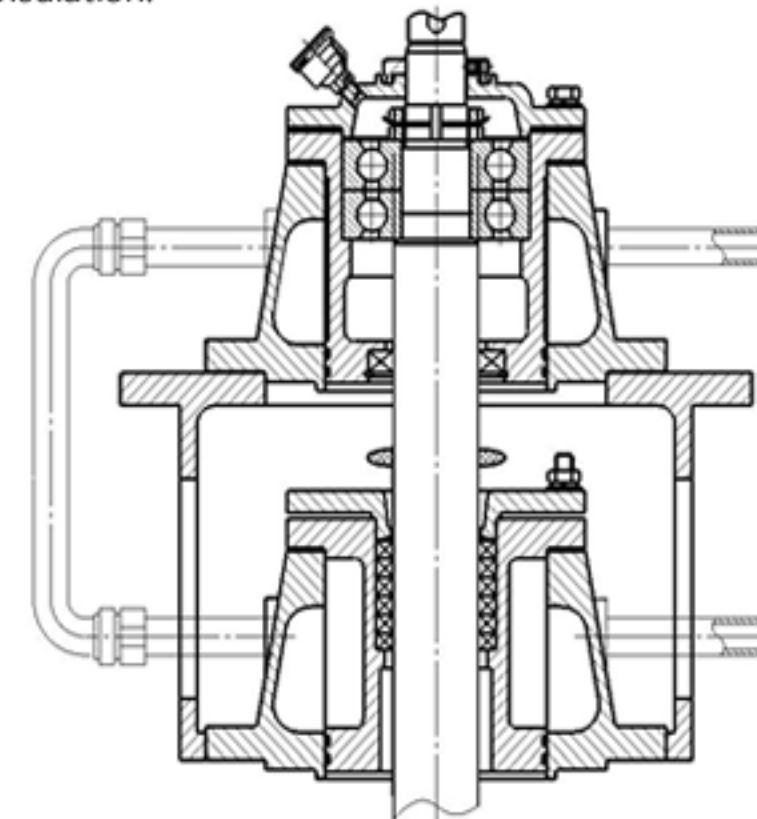


API 方案 K

API solution K

冷却水通往填料箱同时通往轴承箱急冷或保温。

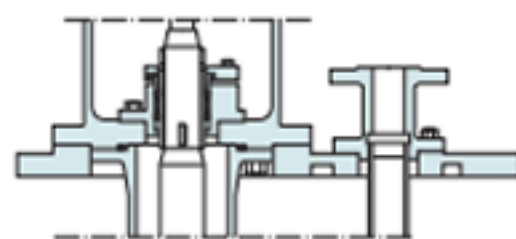
Cooling water flows to the packing box and also to the bearing box for rapid cooling or insulation.



结构优势 / Structure advantages

填料密封:

尽管此处不存在泵的进出口压, 但为了防止支承管内的冲洗液压力过高而从底板溅到大气中, 设置软填料密封是必要的。

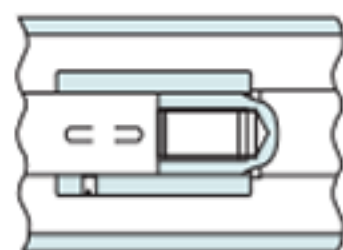


Packing Seal:

Although there is no pressure at suction and discharge, in case of overpressure of flush fluid to splash to the air from the base, soft packing must be used.

接轴方式:

长轴分成二节或多节加工, 采用一根轴一端车螺纹杆, 另一根轴一端车内螺纹, 两轴通过螺纹连接, 外面通过接轴套筒及联接键固定其位置。这样长轴靠联接键传递扭矩, 螺纹杆传递轴向力。增强了泵轴的同轴度, 降低长轴的加工难度。

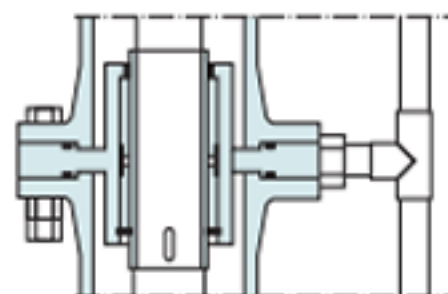


Shaft connections:

Long shaft is machined in two sections or more, end of one shaft screwed rod, the other one is machined with inner screw, two shafts are connected with screws, outside fixed with joint key and shaft bush. Torque is transferred by joint key, thrust force is transferred by screwed rod, this improves coaxiality of the pump shaft, at the same time, make it more easier of machining the long shaft.

支承方式:

YW系列采用多点支承方式, 液面之上采用角接触球轴承, 液下每根短轴都有滑动轴承支承, 滑动轴承固定在中间支承架上, 中间支承架与支承管相连。

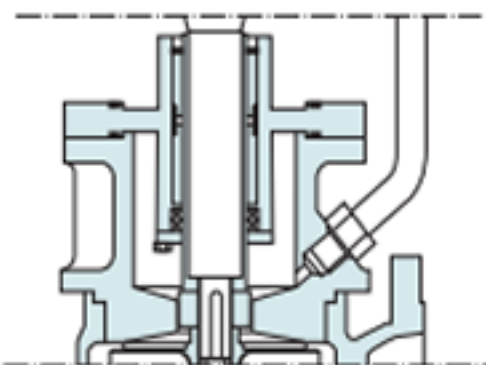


Support type:

YW series pumps are adopted multiple-points support, angle-contact ball bearing is used above the liquid, every short shaft under liquid is supported by sliding bearing, sliding bearing is fixed on the middle supporter, with which supporting pipes are connected.

平衡腔结构:

泵盖与中间支承架构成平衡腔, 在腔体底部设有与大气相通的平衡管, 起到卸压作用, 降低整机的轴向力。同时使颗粒介质从该平衡管流走, 减少颗粒介质向上泄漏进入滑动轴承的可能。在下滑动轴承的下面设有填料密封, 进一步降低颗粒介质向上泄漏的可能。



Balance housing structure:

Balance housing is made up of pump casing and middle supporter, there is balance pipe at the bottom of the housing to connected to the air, for releasing pressure and reducing thrust force of the pumpset. At the same time, solid liquid can be passed through the balance pipe to prevent solid liquid leakage up from entering sliding bearing. Under the lower sliding bearing, there is packing seal to prevent solid liquid leakage up again.

冲洗方式 Flush type

引入清洁的液体冲洗滑动轴承, 保证了泵的安全运转。对于不同的介质, 有两种方式可以选择。

With clean liquid flush sliding bearing, ensures safe operation of pump, two options for different liquids:

自冲洗

当泵送介质为清洁介质时, 采用此方式进行冲洗。从泵出口法兰引一管路, 使冲洗液流向各个滑动轴承, 润滑了滑动轴承, 带走摩擦副产生的热量, 起到降温的作用。

Self-flush

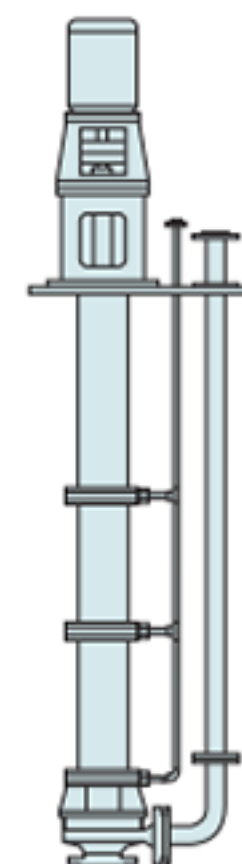
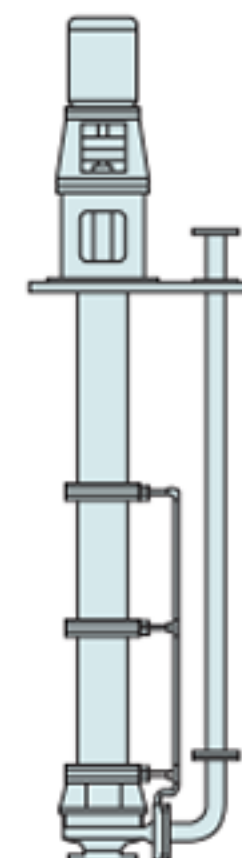
If liquid is clean, this kind of flush will be used. Connect a pipe from discharge flange of pump to every sliding bearings, on one hand, flush liquid lubricates sliding bearings, on the other hand, it takes heat produced by friction, and cools the bearings.

外冲洗

当泵送介质为内含较小颗粒介质时, 采用此方式进行冲洗。从外界接一管路, 引入清洁的冲洗液冲洗各个滑动轴承, 润滑了滑动轴承, 带走摩擦副产生的热量, 起到降温的作用。同时, 避免固体颗粒进入摩擦副中。

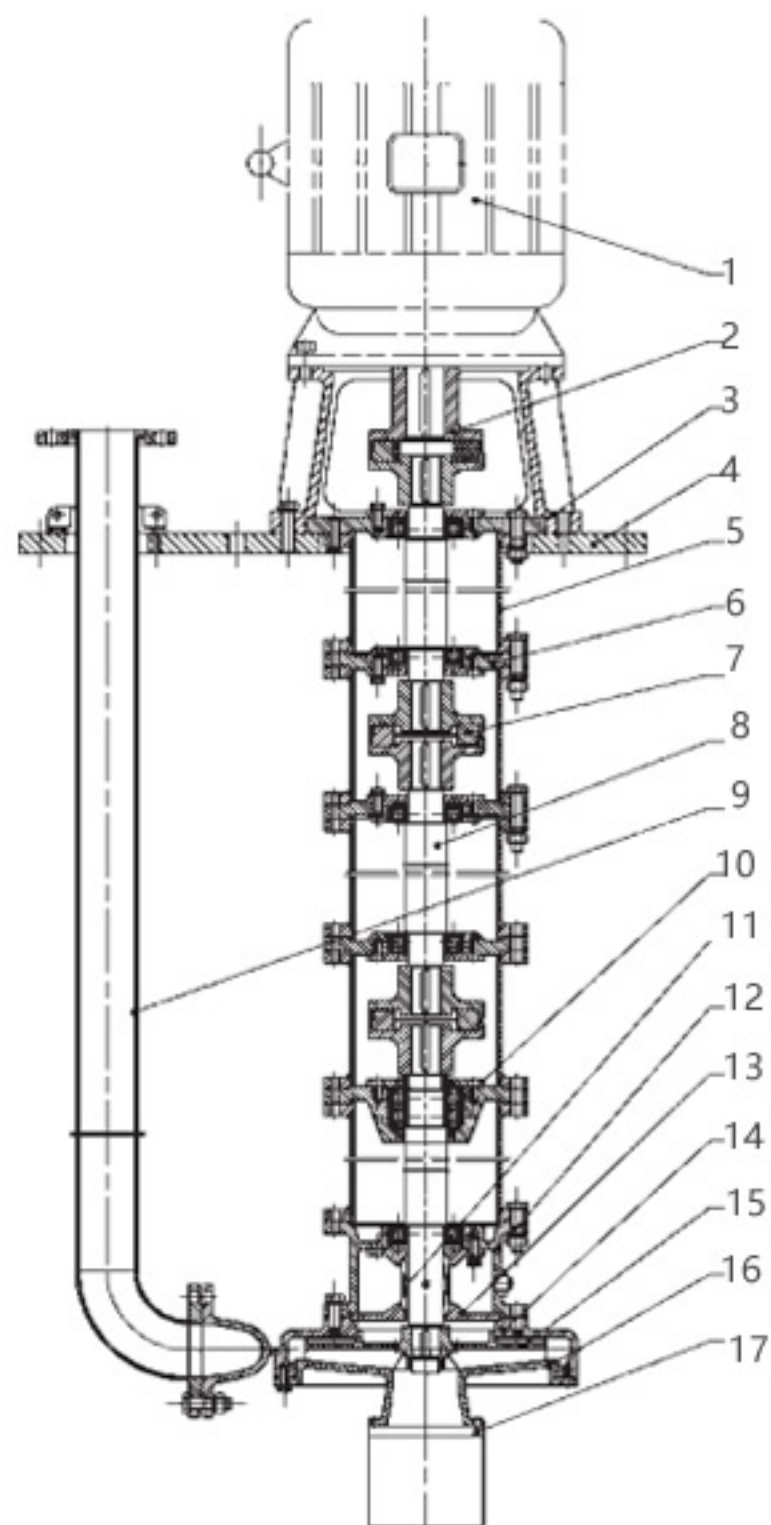
Flush from outside

If liquid with small solid, this flush will be adopted. Connect one pipe from outside, flush all sliding bearings With clean fluid, lubricates bearings, takes heat from friction And cool them, at the same time, avoid solid friction.



I型泵结构简图(VS4) Structure diagram 1(VS4)

序号 No.	名称	Name
1	电动机	Motor
2	联轴器	Coupling
3	电机座	Motor stand
4	底板	Mounting plate
5	联接管	Coupling tube
6	中间轴承座	Intermediate bearing seat
7	中间联轴器	Intermediate coupling
8	轴	Main shaft
9	出液管	Scoop-pipe
10	轴承	Bearing at pump end
11	机械密封	Mechanical seal
12	密封室	sealed chamber
13	密封端盖	END CAPS
14	泵体	Pump casing
15	叶轮	Impeller
16	泵盖	Pump cover
17	滤网	rosebox



结构特点:

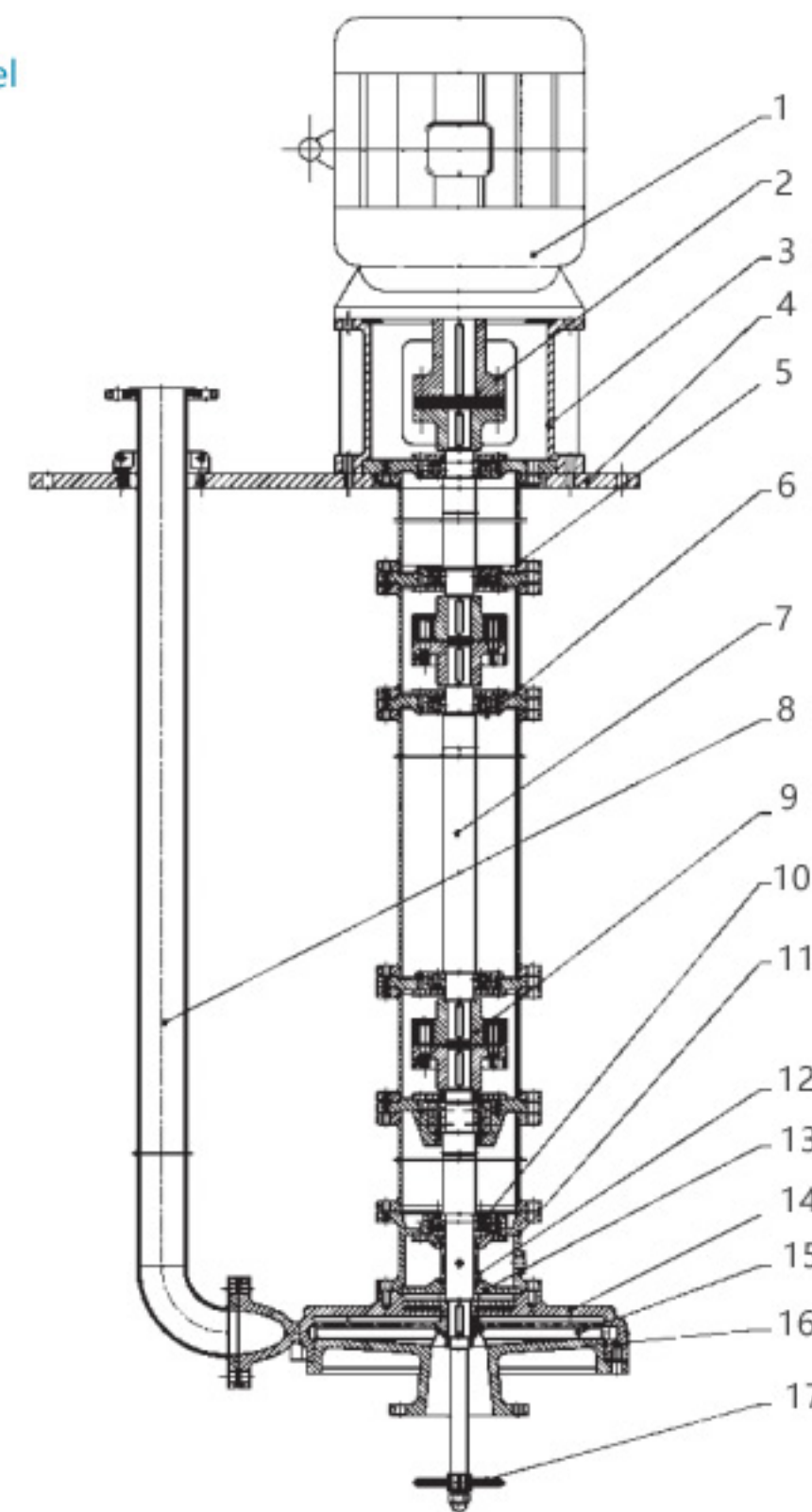
中间轴采用双轴承支承,中间联轴器采用弹性联轴器,轴与轴间不传递轴向力,只传递扭矩,提高了泵机组的运行稳定性。
中间轴承采用金属滚动轴承,无需外接冷却液系统,具有使用寿命长,运行稳定,振动小,噪音低等优点。采用结构化设计思想,泵整体由不同部件组成,零部件互换性高,便于运输。轴封采用防沙盘,副叶轮和双端面机械密封的密封型式,使介质与转子部件有效隔离,延长了设备使用寿命。无需外供冷却水,节约了运行成本。

CHARACTER:

The intermediate shaft is supported by double bearings, and the intermediate coupling adopts an elastic coupling. No axial force is transmitted between the shafts, only torque is transmitted, which improves the operating stability of the pump unit.
The middle bearing adopts metal rolling bearing, which does not require an external coolant system. It has the advantages of long service life, stable operation, small vibration and low noise. Adopting the idea of structured design, the whole pump is composed of different parts. The parts are highly interchangeable and easy to transport. The shaft seal adopts the sealing type of anti-sand plate, auxiliary impeller and double-end mechanical seal, which effectively isolates the medium from the rotor components and extends the service life of the equipment. No external supply of cooling water is required, saving operating costs.

II型泵结构简图(VS4) 带搅拌装置
Structure diagram 2 (VS4) with mixing wheel

序号 No.	名称	Name
1	电动机	Motor
2	联轴器	Coupling
3	电机座	Motor stand
4	底板	Mounting plate
5	联接管	Coupling tube
6	中间轴承座	Intermediate bearing seat
7	轴	Main shaft
8	出液管	Scoop-pipe
9	中间联轴器	Intermediate coupling
10	轴承	Bearing at pump end
11	密封室	Mechanical seal
12	机械密封	END CAPS
13	密封端盖	sealed chamber
14	泵体	Pump casing
15	叶轮	Impeller
16	泵盖	Pump cover
17	搅拌轮	Mixing wheel



结构特点:

- ◆ 该型泵在I型泵的基础上作了改进,泵的下主轴延伸出泵的进口,在靠近泵进口处加设一搅拌装置,与叶轮同步工作,适合输送带沉淀的污水(如粉煤灰水)。
- ◆ 搅拌轮相当于在泵的进口处加了一搅拌器,有利于泵将杂质污水充分的排出。
- ◆ 有效防止了沉淀物积累堵塞泵进口造成对叶轮、泵或电机的损坏。
- ◆ 由于杂质排出充分,延长了清理水池的周期,节约了用户的运行及维护成本。

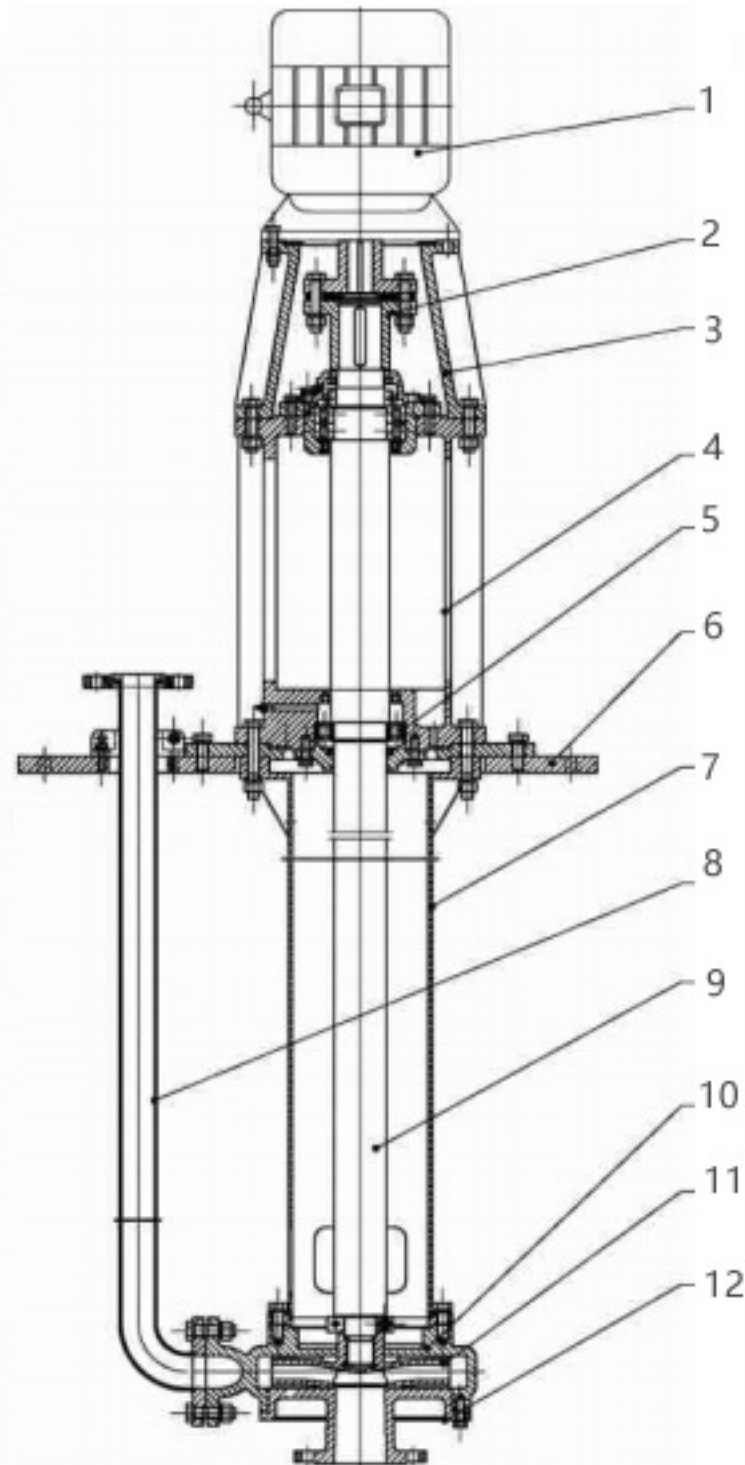
CHARACTER:

- ◆ This type of pump is improved on the basis of the I-type pump. The lower main shaft of the pump extends out of the pump inlet. A stirring device is added near the pump inlet to work synchronously with the impeller. It is suitable for conveying sewage (such as powder) deposited on the belt. coal ash water).
- ◆ The mixing wheel is equivalent to adding a stirrer at the inlet of the pump, which helps the pump fully discharge impurity sewage.
- ◆ Effectively prevents sediment accumulation from blocking the pump inlet and causing damage to the impeller, pump or motor.
- ◆ Due to the sufficient discharge of impurities, the cycle of cleaning the pool is extended, saving the user's operation and maintenance costs.

III型泵结构简图(VS5) 浆液用单轴悬臂结构

Structural Diagram 3 (VS5) Single Axis Cantilever Structure

序号 No.	名称	Name
1	电动机	Motor
2	联轴器	Coupling
3	电机座	Mounting plate
4	轴承座	bearing seat
5	轴承	Bearing at pump end
6	底板	Mounting plate
7	联接管	Coupling tube
8	出液管	Scoop-pipe
9	轴	Main shaft
10	泵体	Pump casing
11	叶轮	Impeller
12	泵盖	Pump cover



结构特点:

- ◆ 轴承固定点上移, 采用单根刚性轴结构, 轴下端无轴承支承, 适用于高温、高浓度浆液、易结晶等特殊介质的输送。
- ◆ 叶轮采用宽流道设计, 采用CFD流场计算, 具有优秀的两相输送能力, 杂质通过能力强, 耐磨性能优越。
- ◆ 无轴封系统, 结构简单, 运行稳定可靠, 寿命长, 配合不同的冷却方式, 最高输送介质温度可达200℃。通过增加吸入管的方法, 可适用于较深的水池, 有效防止沉淀介质堵塞叶轮, 造成设备损坏。

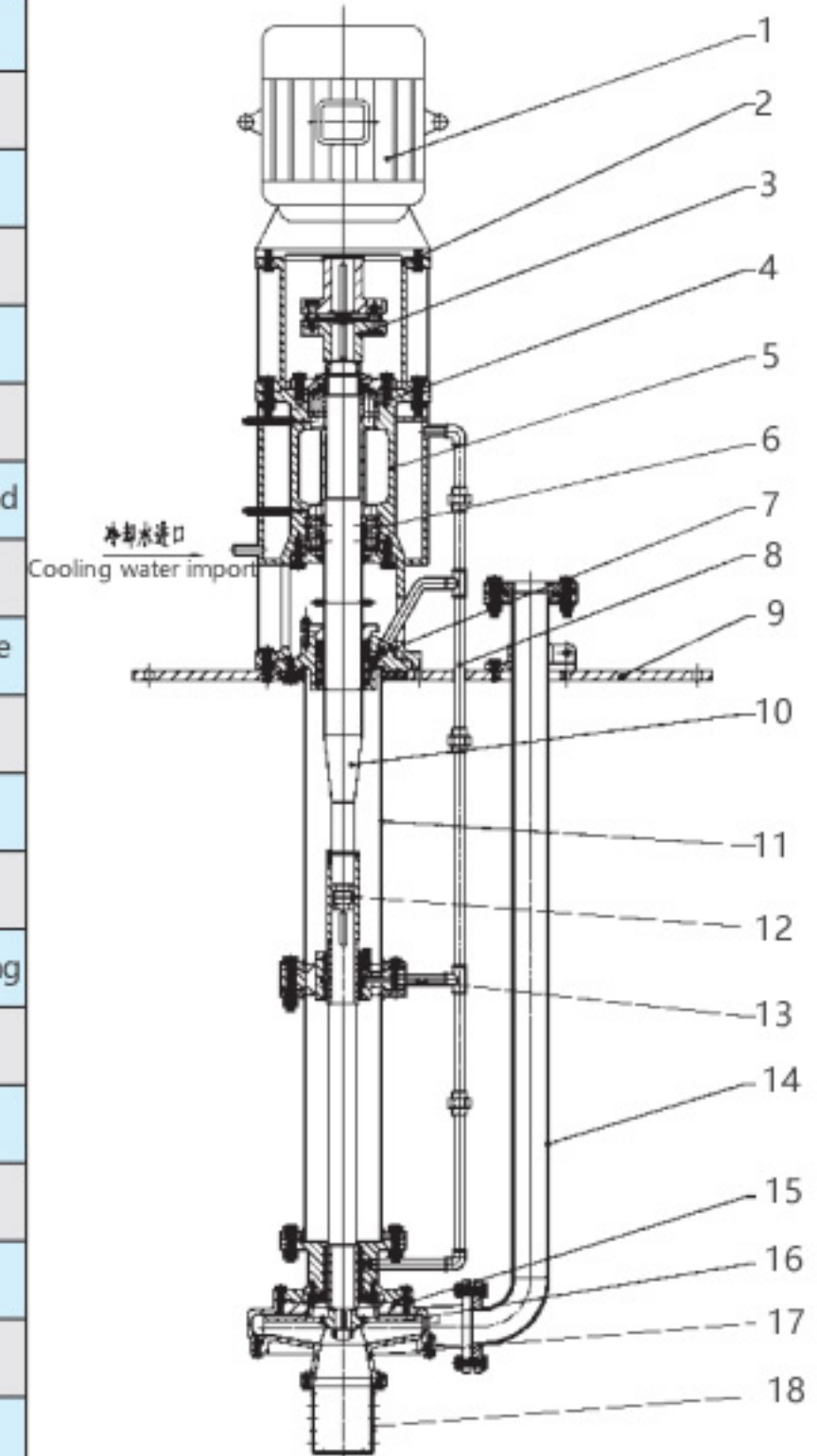
CHARACTER:

- ◆ The fixed point of the bearing moves upward, and it adopts a single rigid shaft structure. There is no bearing support at the lower end of the shaft. It is suitable for transporting special media such as high temperature, high concentration slurry, and easy crystallization.
- ◆ The impeller adopts a wide flow channel design and adopts CFD flow field calculation. It has excellent two-phase conveying capacity, strong impurity passing capacity and excellent wear resistance.
- ◆ Shaft sealless system, simple structure, stable and reliable operation, long life, with different cooling methods, the maximum temperature of the conveying medium can reach 200℃. By adding a suction pipe, it can be applied to deeper pools, effectively preventing the sedimentation medium from clogging the impeller and causing equipment damage.

IV型泵结构简图(VS4) 高温介质结构

Structure diagram 4 (VS4) High temperature medium structure

序号 No.	名称	Name
1	电动机	Motor
2	电机座	Mounting plate
3	联轴器	Coupling
4	轴承	Bearing
5	轴承座	bearing seat
6	轴承	Bearing at pump end
7	轴封	Shaft seal
8	冷却水管	Cooling water pipe
9	底板	Mounting plate
10	轴	Main shaft
11	联接管	Coupling tube
12	中间联轴器	Intermediate coupling
13	滑动轴承	Sliding bearing
14	出液管	Scoop-pipe
15	泵体	Pump casing
16	叶轮	Impeller
17	泵盖	Pump cover
18	滤网	Rosebox



结构特点:

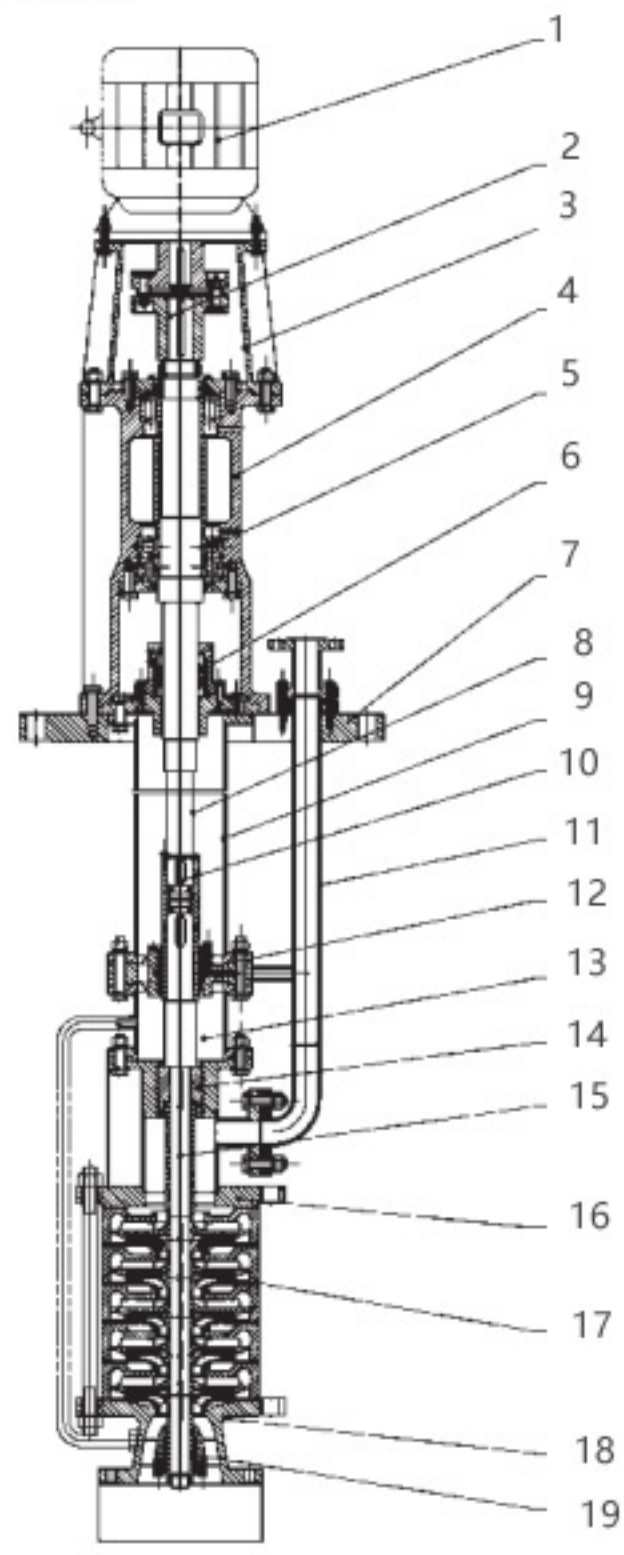
- ◆ 专业为输送高温化工介质设计, 配备专用的冷却系统, 最高输送介质温度高达260℃
- ◆ 采用优化的水力模型, 高效节能。
- ◆ 采用专业设计的滑动轴承, 适应高温介质使用环境, 寿命长,
- ◆ 选用不同的轴封系统和底板密封型式, 可满足各种化工介质以及有毒介质的输送。

CHARACTER:

- ◆ Professionally designed for conveying high-temperature chemical media, equipped with a dedicated cooling system, the maximum conveying medium temperature is as high as 260℃.
- ◆ Adopting an optimized hydraulic model, high efficiency and energy saving.
- ◆ Use professionally designed sliding bearings to adapt to high-temperature media environments and have long service life.
- ◆ Use different shaft seal systems and bottom plate seal types to meet the transportation of various chemical media and toxic media.

V型泵结构简图(VS4) 多级叶轮结构
Structure diagram 5 (VS5) multi-stage impeller structure

序号 No.	名称	Name
1	电机	Motor
2	联轴器	Coupling
3	电机座	Motor stand
4	轴承座	bearing seat
5	轴承	Bearing
6	轴封	Shaft seal
7	底板	Mounting plate
8	上轴	Upper shaft
9	联接管	Coupling tube
10	中间联轴器	Intermediate coupling
11	出液管	Scoop-pipe
12	滑动轴承	Sliding bearing
13	平衡室	balance chamber
14	平衡毂	balance hub
15	下轴	Lower shaft
16	出水段	Outlet section
17	叶轮	Impeller
18	进水段	Water inlet section
19	轴套	Bushing



结构特点:

- ◆ 该型泵在IV型泵的基础上, 采用多级叶轮结构, 参数适用范围更广泛。配备专用的冷却系统, 最高输送介质温度高达200℃
- ◆ 多级叶轮结构具有较小的径向尺寸, 能满足较小池口的安装要求。
- ◆ 特殊设计的轴向力平衡机构, 有效平衡轴向力, 设备运行更稳定可靠。

CHARACTER:

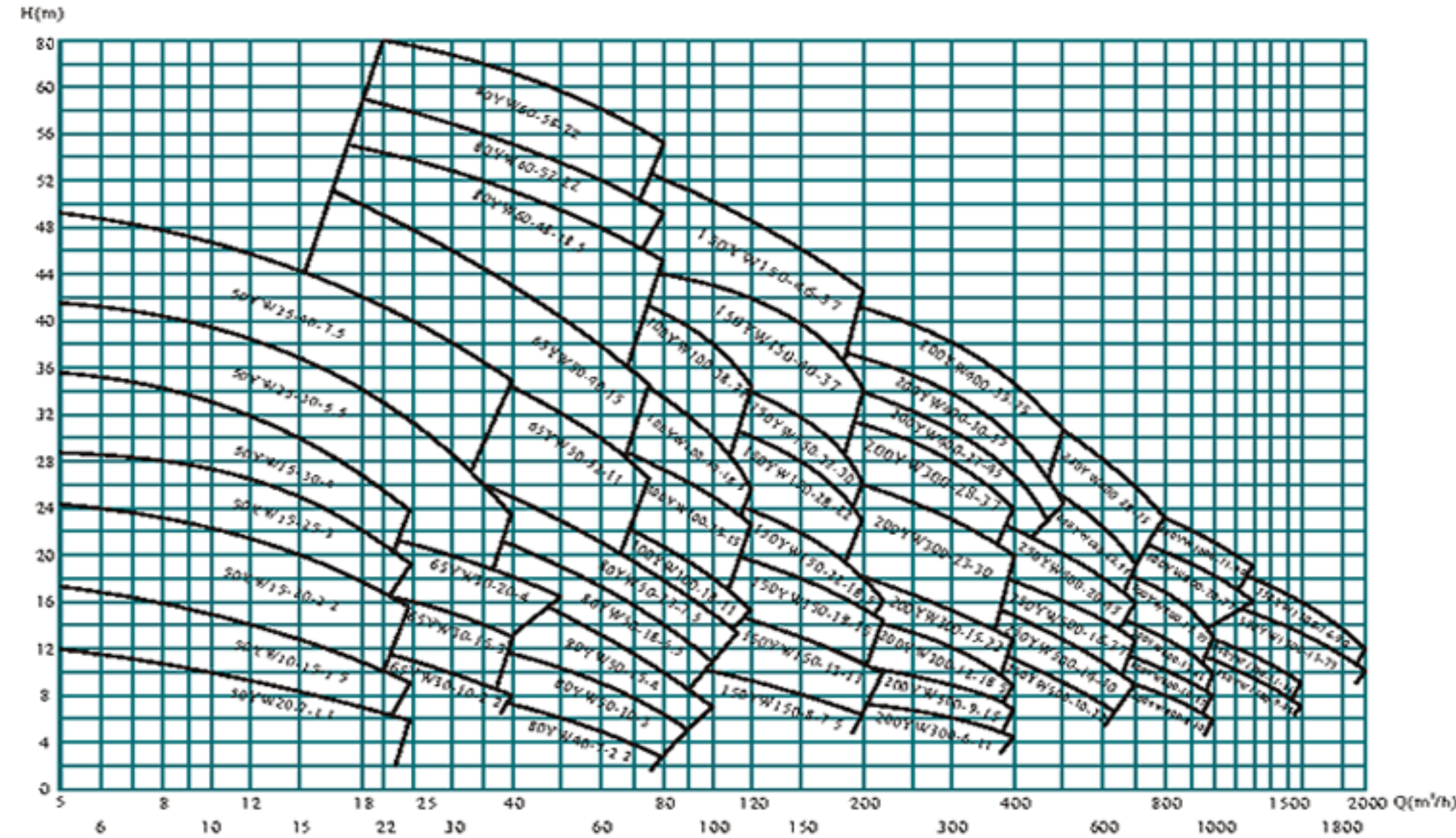
- ◆ Based on the IV type pump, this type of pump adopts a multi-stage impeller structure and has a wider range of parameters. Equipped with a dedicated cooling system, the maximum conveying medium temperature is as high as 260℃.
- ◆ The multi-stage impeller structure has a smaller radial size and can meet the installation requirements of a smaller pool mouth.
- ◆ The specially designed axial force balancing mechanism effectively balances the axial force and makes the equipment operation more stable and reliable.

常规泵的主要零件材料 MAIN PARTS' MATERIALS OF THE ORDINARY PUMPS

零 件 Part	材 料 Material
泵体、叶轮、泵盖、连接座、轴承压盖 Pump casing, impeller, pump cover, connecting seat, bearing gland	HT200
轴 Shaft	2Cr13
连接架、扬水管 Connecting stand, scoop-pipe	Q235
吸入筒 Suck-in barrel	Q235
机械密封 Mechanical seal	碳化硅/碳化钨 Silicon carbide/tungsten carbide
紧固件 Fastener	不锈钢 Stainless steel

备注: 泵体等铸件及叶轮可以根据介质及工况按用户要求选用不同的材料, 具体请联系销售人员。
Note: Castings such as the pump body and impeller can be made of different materials according to the medium and working conditions and user requirements. Please contact the sales staff for details.

型谱图/ATLAS OF STYLE





GLC系列立式长轴透平泵(API610 VS1)
GLC SERIES VERTICAL LONG SHAFT TURBINE PUMP(API610 VS1)

性能参数表 / Performance Parameters Table

性能参数表 / Performance Parameters Table

型号	流量 Q		扬程 H	转速 n	电机功率 Motor Power (KW)		
	Capacity		Head	Speed	按比重 ρ (g/m ³) Choose according to proportion		
Type	m ³ /h	l/s	m	r/min	0< ρ ≤1.1	1.1< ρ ≤1.35	1.35< ρ ≤1.84
50YW5-10	3	0.8	11.0	1480	1.1	1.5	2.2
	5	1.4	10.0				
	7	1.9	9.0				
50YW8-40	7	1.9	42.0	1480	7.5	7.5	11
	8	2.2	40.0				
	10	2.8	35.0				
50YW10-15	8	2.2	16.0	1480	5.5	5.5	7.5
	10	2.8	15.0				
	15	4.2	13.0				
50YW10-20	8	2.2	21.0	1480	7.5	11	11
	10	2.8	20.0				
	15	4.2	18.0				
50YW12-38	8	2.2	40.0	1480	11	11	15
	12	3.3	38.0				
	15	4.2	37.0				
50YW15-30	10	2.8	33.0	1480	11	11	15
	15	4.2	30.0				
	25	6.9	24.0				
50YW15-50	10	2.8	55.0	1480	18.5	22	30
	15	4.2	50.0				
	25	6.9	40.0				
50YW18-7	13	3.6	8.0	1480	1.5	2.2	3
	18	5.0	7.0				
	22	6.1	6.0				
50YW20-25	15	4.2	33.0	1480	7.5	11	15
	20	5.6	30.0				
	35	9.7	23.0				
50YW20-40	15	4.2	42.0	1480	11	15	18.5
	20	5.6	40.0				
	35	9.7	35.0				
50YW25-25	20	5.6	28.0	1480	7.5	11	15
	25	6.9	25.0				
	40	11.1	18.0				
50YW26-24	24	6.7	25.0	1480	7.5	11	15
	26	7.2	24.0				
	28	7.8	22.0				
50YW30-25	25	6.9	27.0	1480	11	11	7.5
	30	8.3	25.0				
	33	9.2	22.0				

型号	流量 Q		扬程 H	转速 n	电机功率 Motor Power (KW)		
	Capacity		Head	Speed	按比重 ρ (g/m ³) Choose according to proportion		
Type	m ³ /h	l/s	m	r/min	0< ρ ≤1.1	1.1< ρ ≤1.35	1.35< ρ ≤1.84
50YW5-10	3	0.8	11.0	1480	1.1	1.5	2.2
	5	1.4	10.0				
	7	1.9	9.0				
50YW8-40	7	1.9	42.0	1480	7.5	7.5	11
	8	2.2	40.0				
	10	2.8	35.0				
50YW10-15	8	2.2	16.0	1480	5.5	5.5	7.5
	10	2.8	15.0				
	15	4.2	13.0				
50YW10-20	8	2.2	21.0	1480	7.5	11	11
	10	2.8	20.0				
	15	4.2	18.0				
50YW12-38	8	2.2	40.0	1480	11	11	15
	12	3.3	38.0				
	15	4.2	37.0				
50YW15-30	10	2.8	33.0	1480	11	11	15
	15	4.2	30.0				
	25	6.9	24.0				
50YW15-50	10	2.8	55.0	1480	18.5	22	30
	15	4.2	50.0				
	25	6.9	40.0				
50YW18-7	13	3.6	8.0	1480	1.5	2.2	3
	18	5.0	7.0				
	22	6.1	6.0				
50YW20-25	15	4.2	33.0	1480	7.5	11	15
	20	5.6	30.0				
	35	9.7	23.0				
50YW20-40	15	4.2	42.0	1480	11	15	18.5
	20	5.6	40.0				
	35	9.7	35.0				
50YW25-25	20	5.6	28.0	1480	7.5	11	15
	25	6.9	25.0				
	40	11.1	18.0				
50YW26-24	24	6.7	25.0	1480	7.5	11	15
	26	7.2	24.0				
	28	7.8	22.0				
50YW30-25	25	6.9	27.0	1480	11	11	7.5
	30	8.3	25.0				
	33	9.2	22.0				



YW系列立式液下污水泵(API610 VS4/VS5)

YW SERIES Vertical semi-submersible sump pump(API610 VS4/VS5)

性能参数表 / Performance Parameters Table

型号	流量 Q		扬程 H	转速 n	电机功率 Motor Power (KW)		
	Capacity		Head	Speed	按比重 ρ (g/m ³) Choose according to proportion		
Type	Q		H	n	$0 < \rho \leq 1.1$	$1.1 < \rho \leq 1.35$	$1.35 < \rho \leq 1.84$
80YW25-50	15	4.2	51.0	1480	22	30	37
	25	6.9	50.0				
	30	8.3	49.0				
80YW35-23	15	4.2	25.0	1480	11	15	18.5
	35	9.7	23.0				
	45	12.5	20.0				
80YW35-50	25	6.9	52.0	1480	22	30	37
	35	9.7	50.0				
	60	16.7	45.0				
80YW40-20	20	5.6	30.0	1480	7.5	11	15
	40	11.1	20.0				
	50	13.9	18.0				
80YW45-32	30	8.3	34.0	1480	18.5	22	30
	45	12.5	32.0				
	65	18.1	28.0				
80YW50-25	40	11.1	28.0	1480	11	15	18.5
	50	13.9	25.0				
	69	19.2	22.0				
80YW50-50	30	8.3	52.0	1480	22	30	37
	50	13.9	50.0				
	60	16.7	48.0				
80YW60-30	50	13.9	33.0	1480	18.5	22	30
	60	16.7	30.0				
	80	22.2	27.0				
80YW60-52	40	11.1	55.0	1480	30	37	45
	60	16.7	52.0				
	80	22.2	49.0				
100YW20-50	15	4.2	52.0	1480	18.5	22	30
	20	5.6	50.0				
	54	15.0	42.0				
100YW40-30	25	6.9	32.0	1480	15	18.5	30
	40	11.1	30.0				
	65	18.1	28.0				
100YW66-32	49	13.6	33.0	1480	22	30	37
	66	18.3	32.0				
	90	25.0	29.0				
100YW70-28	50	13.9	30.0	1480	15	18.5	30
	70	19.4	28.0				
	88	24.4	26.0				

性能参数表 / Performance Parameters Table

型号	流量 Q		扬程 H	转速 n	电机功率 Motor Power (KW)		
	Capacity		Head	Speed	按比重 ρ (g/m ³) Choose according to proportion		
Type	Q		H	n	$0 < \rho \leq 1.1$	$1.1 < \rho \leq 1.35$	$1.35 < \rho \leq 1.84$
100YW80-18	65	18.1	21.0	1480	11	15	18.5
	80	22.2	18.0				
	120	33.3	13.0				
100YW80-32	48	13.3	33.3	1480	18.5	22	30
	80	22.2	32.0				
	96	26.7	31.0				
100YW90-25	54	15.0	27.1	1480	18.5	22	30
	90	25.0	25.9				
	108	30.0	24.7				
100YW90-40	54	15.0	42.1	1480	30	30	45
	90	25.0	40.5				
	108	30.0	39.3				
100YW100-15	80	22.2	17.0	1480	15	18.5	22
	100	27.8	15.0				
	118	32.8	13.0				
100YW100-35	80	22.2	38.0	1480	22	30	37
	100	27.8	35.0				
	118	32.8	32.0				
100YW100-50	60	16.7	53.0	1480	37	45	75
	100	27.8	50.0				
	120	33.3	48.0				
100YW100-68	81	22.5	74.0	1480	55	75	75
	100	27.8	68.0				
	120	33.3	66.0				
100YW108-12	90	25.0	13.0	1480	11	11	15
	108	30.0	12.2				
	144	40.0	10.5				
100YW120-15	100	27.8	16	1480	11	11	15
	120	33.3	15				
	135	37.5	14.3				
100YW128-13	95	26.4	14.4	1480	11	11	15
	128	35.6	12.9				
	152	42.2	11.7				
100YW135-14	120	33.3	15	1480	11	15	18.5
	135	37.5	14.3				
	160	44.4	13				
150YW150-18	120	33.3	20.0	1480	18.5	22	30
	150	41.7	18.0				
	200	55.6	15.0				



YW系列立式液下污水泵(API610 VS4/VS5)

YW SERIES Vertical semi-submersible sump pump(API610 VS4/VS5)

性能参数表 / Performance Parameters Table

型号 Type	流量 Q Capacity		扬程 H Head	转速 n Speed	电机功率 Motor Power (KW) 按比重 ρ (g/m ³) Choose according to proportion		
	Q		H	n	0 < ρ ≤ 1.1	1.1 < ρ ≤ 1.35	1.35 < ρ ≤ 1.84
150YW150-28	120	33.3	30.0	1480	30	37	45
	150	41.7	28.0				
	200	55.6	23.0				
150YW150-40	80	22.2	44.0	1480	37	45	75
	150	41.7	40.0				
	200	55.6	34.0				
150YW150-50	120	33.3	53	1480	55	75	90
	200	55.6	50				
	240	66.7	46				
150YW180-19	135	37.5	20.3	1480	22	30	37
	180	50.0	19.3				
	216	60.0	17.8				
150YW190-22	143	39.7	22.6	1480	22	30	37
	190	52.8	21.5				
	228	63.3	19.9				
150YW200-24	150	41.7	25	1480	30	37	45
	200	55.6	23.8				
	240	66.7	22				
150YW200-60	120	33.3	65.0	1480	75	90	132
	200	55.6	60.0				
	240	66.7	56.0				
150YW210-30	130	36.1	33.0	1480	45	55	75
	210	58.3	30.0				
	260	72.2	28.0				
150YW216-18	180	50.0	19.3	980	22	30	37
	216	60.0	17.8				
	252	70.0	15.8				
150YW220-71	135	37.5	76.0	1480	110	110	160
	220	61.1	71.0				
	290	80.6	65.0				
150YW228-20	190	52.8	21.5	1480	30	30	45
	228	63.3	19.9				
	266	73.9	17.6				
150YW240-22	200	55.6	23.8	1480	30	37	45
	240	66.7	22				
	280	77.8	19.5				
150YW250-90	160	44.4	94.0	1480	150	185	250
	250	69.4	90.0				
	320	88.9	86.0				

性能参数表 / Performance Parameters Table

型号 Type	流量 Q Capacity		扬程 H Head	转速 n Speed	电机功率 Motor Power (KW) 按比重 ρ (g/m ³) Choose according to proportion		
	Q		H	n	0 < ρ ≤ 1.1	1.1 < ρ ≤ 1.35	1.35 < ρ ≤ 1.84
200YW255-44	167	46.4	48.0	1480	75	75	110
	255	70.8	44.0				
	333	92.5	37.0				
200YW270-12	198	55.0	15.0	1480	18.5	22	30
	270	75.0	12.2				
	306	85.0	10.5				
200YW270-16	198	55.0	18.8	1480	30	30	45
	270	75.0	16.4				
	306	85.0	14.2				
200YW270-17	177	49.2	20.0	1480	30	30	45
	270	75.0	17.0				
	354	98.3	14.0				
200YW285-14	209	58.1	16.7	1480	22	30	37
	285	79.2	13.5				
	323	89.7	11.7				
200YW285-18	209	58.1	20.9	1480	30	37	45
	285	79.2	18.2				
	323	89.7	15.8				
200YW285-50	180	50.0	55.0	1480	75	90	132
	285	79.2	50.0				
	370	102.8	45.0				
200YW300-15	220	61.1	18.5	1480	30	30	37
	300	83.3	15				
	340	94.4	13				
200YW300-20	220	61.1	23.2	1480	30	45	55
	300	83.3	20.2				
	340	94.4	17.5				
200YW300-25	200	55.6	32.0	1480	37	45	75
	300	83.3	25.0				
	375	104.2	20.0				
200YW306-11	270	75.0	12.2	980	18.5	22	30
	306	85.0	10.5				
	342	95.0	8.4				
200YW306-14	270	75.0	16.4	1480	30	30	45
	306	85.0	14.2				
	342	95.0	12.2				
200YW323-12	285	79.2	13.5	1480	22	30	37
	323	89.7	11.7				
	361	100.3	9.4				



YW系列立式液下污水泵(API610 VS4/VS5)

YW SERIES Vertical semi-submersible sump pump(API610 VS4/VS5)

性能参数表 / Performance Parameters Table

型号	流量 Q		扬程 H	转速 n	电机功率 Motor Power (KW)		
	Capacity		Head	Speed	按比重 ρ (g/m ³) Choose according to proportion		
Type	Q		H	n	0 < ρ ≤ 1.1	1.1 < ρ ≤ 1.35	1.35 < ρ ≤ 1.84
200YW323-16	285	79.2	18.2	980	30	37	45
	323	89.7	15.8				
	361	100.3	13.5				
200YW320-38	215	59.7	42.6	1480	75	75	110
	320	88.9	38.0				
	395	109.7	34.0				
200YW340-13	300	83.3	15	1480	90	110	160
	340	94.4	13				
	380	105.6	10.3				
200YW340-18	300	83.3	20.2	980	132	160	200
	340	94.4	17.5				
	380	105.6	15				
200YW350-30	225	62.5	33.4	1480	55	75	90
	350	97.2	30.0				
	415	115.3	25.7				
250YW450-27	360	100.0	28.3	1480	75	90	110
	450	125.0	27.1				
	540	150.0	25.4				
250YW450-42	360	100.0	43.2	1480	132	160	200
	450	125.0	42.1				
	648	180.0	36.5				
250YW475-30	380	105.6	31.5	1480	75	90	132
	475	131.9	30.2				
	570	158.3	28.3				
250YW475-47	380	105.6	48.1	1480	132	160	200
	475	131.9	46.9				
	684	190.0	40.6				
250YW500-26	380	105.6	31.5	1480	75	90	110
	500	138.9	26.0				
	560	155.6	22.0				
250YW500-52	400	111.1	53.3	1480	132	185	250
	500	138.9	52				
	720	200.0	45				
250YW540-25	450	125.0	27.1	1480	75	90	132
	540	150.0	25.4				
	720	200.0	19.4				
250YW550-32	400	111.1	35.0	1480	90	110	160
	550	152.8	32.0				
	610	169.4	30.0				

性能参数表 / Performance Parameters Table

型号	流量 Q		扬程 H	转速 n	电机功率 Motor Power (KW)		
	Capacity		Head	Speed	按比重 ρ (g/m ³) Choose according to proportion		
Type	Q		H	n	0 < ρ ≤ 1.1	1.1 < ρ ≤ 1.35	1.35 < ρ ≤ 1.84
250YW570-28	475	131.9	30.2	1480	90	110	160
	570	158.3	28.3				
	760	211.1	21.7				
250YW580-65	440	122.2	71.0	1480	185	220	315
	580	161.1	65.0				
	640	177.8	60.0				
250YW585-34	440	122.2	35.0	1480	110	132	185
	585	162.5	34.0				
	730	202.8	31.0				
250YW600-28	500	138.9	31.0	1480	90	110	132
	600	166.7	28.0				
	700	194.4	24.0				
250YW600-31	500	138.9	33.5	1480	90	110	160
	600	166.7	31.4				
	800	222.2	24				
250YW648-37	450	125.0	42.1	1480	132	160	200
	648	180.0	36.5				
	810	225.0	32.4				
250YW684-41	475	131.9	46.9	1480	132	160	220
	684	190.0	40.6				
	855	237.5	36.1				
250YW720-45	500	138.9	52.0	1480	160	185	250
	720	200.0	45.0				
	900	250.0	40.0				
300YW585-34	450	125.0	34.9	1480	110	132	185
	585	162.5	34.0				
	720	200.0	31.2				
300YW618-38	475	131.9	38.9	1480	132	160	200
	618	171.7	37.9				
	760	211.1	34.7				
300YW620-20	415	115.3	23.0	1480	75	75	110
	623	173.1	21.0				
	747	207.5	18.5				

YW SERIES Vertical semi-submersible sump pump

YW SERIES Vertical semi-submersible sump pump



YW系列立式液下污水泵(API610 VS4/VS5)

YW SERIES Vertical semi-submersible sump pump(API610 VS4/VS5)

性能参数表 / Performance Parameters Table

型号	流量 Q		扬程 H	转速 n	电机功率 Motor Power (KW)		
	Capacity		Head	Speed	按比重 ρ (g/m ³) Choose according to proportion		
Type	Q		H	n	$0 < \rho \leq 1.1$	$1.1 < \rho \leq 1.35$	$1.35 < \rho \leq 1.84$
300YW650-24	444	123.3	26.5	1480	90	90	132
	650	180.6	24.0				
	770	213.9	21.5				
300YW650-42	500	138.9	43.1	1480	132	160	220
	650	180.6	42				
	800	222.2	38.5				
300YW720-31	585	162.5	34.0	1480	132	160	200
	720	200.0	31.2				
	810	225.0	28.8				
300YW760-35	618	171.7	37.9	1480	132	160	220
	760	211.1	34.7				
	855	237.5	32.0				
300YW800-39	650	180.6	42	1480	160	185	250
	800	222.2	38.5				
	900	250.0	35.5				
350YW720-19	540	150.0	22.7	1480	75	90	132
	720	200.0	19.0				
	810	225.0	17.7				
350YW760-21	570	158.3	25.3	1480	90	110	160
	760	211.1	21.2				
	855	237.5	19.7				
350YW800-18	720	200.0	19.0	1480	75	110	132
	810	225.0	17.7				
	990	275.0	12.6				
350YW800-24	600	166.7	28	1480	90	110	160
	800	222.2	23.5				
	900	250.0	21.8				
350YW850-20	760	211.1	21.2	1480	90	110	160
	855	237.5	19.7				
	1045	290.3	14.0				
350YW900-22	800	222.2	23.5	1480	110	132	160
	900	250.0	21.8				
	1100	305.6	15.5				

YW系列泵外形安装尺寸表 YW SERIES PUMP INSTALLATION DIMENSION

序号 No.	型 号 Type	出口法兰 Outlet flange					双管安装		单管安装	
		ϕA	ϕB	ϕC	ϕD	$N_1-\phi d$	$E \times F$	$E_1 \times F_1$	$O \times Q$	$O_1 \times Q_1$
1	50YW20-7-1.1	50	90	140	110	4- $\phi 13.5$	700×350	650×300	450×400	400×350
2	50YW10-15-1.5	50	90	140	110	4- $\phi 13.5$	700×350	650×300	450×400	400×350
3	50YW15-20-2.2	50	90	140	110	4- $\phi 13.5$	700×350	650×300	450×400	400×350
4	50YW15-25-3	50	90	140	110	4- $\phi 13.5$	700×350	650×300	450×400	400×350
5	50YW15-30-4	50	90	140	110	4- $\phi 13.5$	700×350	650×300	450×400	400×350
6	50YW25-30-5.5	50	90	140	110	4- $\phi 13.5$	700×350	650×300	450×400	400×350
7	50YW25-40-7.5	50	90	140	110	4- $\phi 13.5$	700×350	650×300	450×400	400×350
8	65YW30-10-2.2	65	110	160	130	4- $\phi 13.5$	780×420	720×360	500×480	440×420
9	65YW30-15-3	65	110	160	130	4- $\phi 13.5$	780×420	720×360	500×480	440×420
10	65YW30-20-4	65	110	160	130	4- $\phi 13.5$	700×350	650×300	450×400	400×350
11	65YW30-30-5.5	65	110	160	130	4- $\phi 13.5$	700×350	650×300	450×400	400×350
12	65YW30-35-7.5	65	110	160	130	4- $\phi 13.5$	700×350	650×300	450×400	400×350
13	65YW50-32-11	65	110	160	130	4- $\phi 13.5$	780×420	720×360	500×480	440×420
14	65YW50-40-15	65	110	160	130	4- $\phi 13.5$	780×420	720×360	500×480	440×420
15	80YW40-7-2.2	80	128	190	150	4- $\phi 17.5$	850×450	790×390	530×500	470×440
16	80YW50-10-3	80	128	190	150	4- $\phi 17.5$	850×450	790×390	530×500	470×440
17	80YW50-15-4	80	128	190	150	4- $\phi 17.5$	850×450	790×390	530×500	470×440
18	80YW50-18-5.5	80	128	190	150	4- $\phi 17.5$	900×500	840×440	580×540	520×480
19	80YW50-23-7.5	80	128	190	150	4- $\phi 17.5$	900×500	840×440	580×540	520×480
20	80YW60-48-18.5	80	128	190	150	4- $\phi 17.5$	850×450	790×390	530×500	470×440
21	80YW60-52-22	80	128	190	150	4- $\phi 17.5$	850×450	790×390	530×500	470×440
22	80YW60-58-22	80	128	190	150	4- $\phi 17.5$	850×450	790×390	530×500	470×440
23	100YW80-7-3	100	148	210	170	4- $\phi 17.5$	880×460	820×400	530×500	470×440
24	100YW80-10-4	100	148	210	170	4- $\phi 17.5$	880×460	820×400	530×500	470×440
25	100YW80-13-5.5	100	148	210	170	4- $\phi 17.5$	900×500	840×440	580×540	520×480
26	100YW80-18-7.5	100	148	210	170	4- $\phi 17.5$	900×500	840×440	580×540	520×480
27	100YW100-18-11	100	148	210	170	4- $\phi 17.5$	880×460	820×400	560×520	500×460

注：1、L=0.5~10m；2、液下5m及5m以上分体运输，现场安装。
Note: 1、L=0.5~10m; 2、For the pump 5m or above under liquid will be separately shipped and then installed on the site.

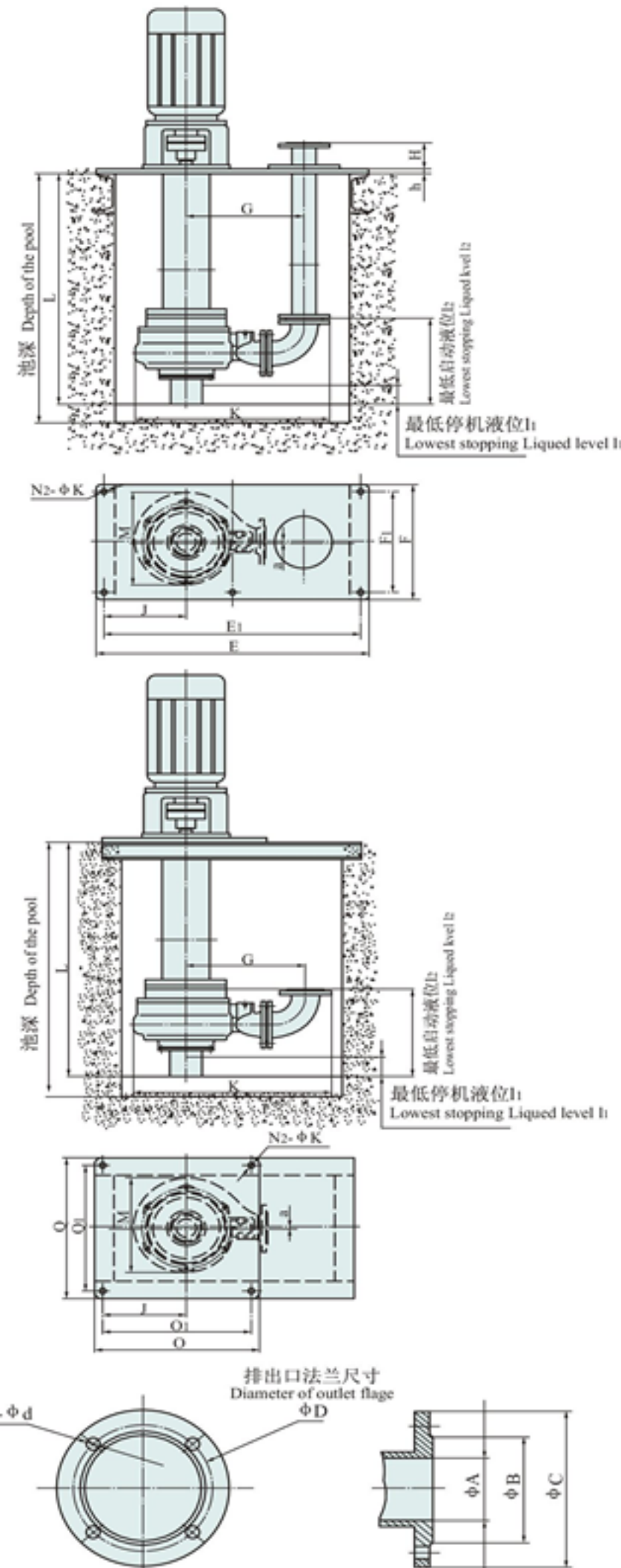
YW SERIES Vertical semi-submersible sump pump

YW SERIES Vertical semi-submersible sump pump

由于我们在不断努力改进产品，我们保留样本数据更改的权利！
Because we are constantly striving to improve products, we reserve the right to revise the sample data.

YW系列泵外形安装尺寸表 YW SERIES PUMP INSTALLATION DIMENSION

G	M	K	a	H	h	J	N ₂ -φk	I ₁	I ₂
210	187	274	-	100	12	205	4-φ20	80	25
210	187	274	-	100	12	205	4-φ20	80	25
325	245	520	-	100	12	205	4-φ15	80	250
325	245	520	-	100	12	205	4-φ15	80	250
325	245	520	-	100	12	205	4-φ15	80	250
325	245	520	-	100	12	205	4-φ15	80	250
325	245	520	-	100	12	205	4-φ15	80	250
325	245	520	-	100	12	205	4-φ15	80	250
325	245	520	-	100	12	205	4-φ15	80	250
325	245	520	-	100	12	205	4-φ15	80	250
370	325	612	-	100	12	210	4-φ20	100	300
370	325	612	-	100	12	210	4-φ20	100	300
355	245	520	-	100	12	205	4-φ20	100	300
355	245	520	-	100	12	205	4-φ20	100	300
355	245	520	-	100	12	205	4-φ20	100	300
370	325	612	-	100	12	210	4-φ20	100	300
370	325	612	-	100	12	210	4-φ20	100	300
430	353	699	-	100	12	210	4-φ20	120	350
430	353	699	-	100	12	210	4-φ20	120	350
430	353	699	-	100	12	210	4-φ20	120	350
450	390	740	-	100	12	245	4-φ20	120	350
450	390	740	-	100	12	245	4-φ20	120	350
430	324	612	-	100	12	210	4-φ20	100	350
430	324	612	-	100	12	210	4-φ20	100	350
430	324	612	-	100	12	210	4-φ20	100	350
440	370	720	-	100	12	210	4-φ20	150	400
440	370	720	-	100	12	210	4-φ20	150	400
460	390	760	-	100	12	245	4-φ20	150	400
460	390	760	-	100	12	245	4-φ20	150	400
440	370	720	-	100	12	225	4-φ25	150	400



YW系列泵外形安装尺寸表 YW SERIES PUMP INSTALLATION DIMENSION

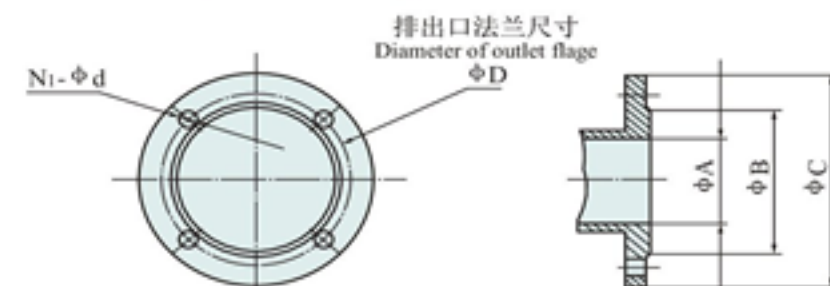
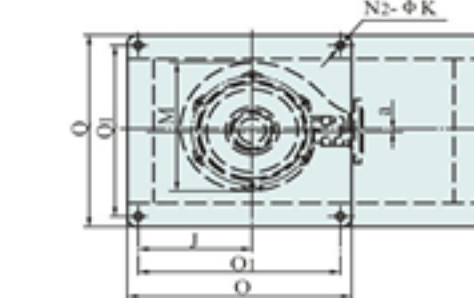
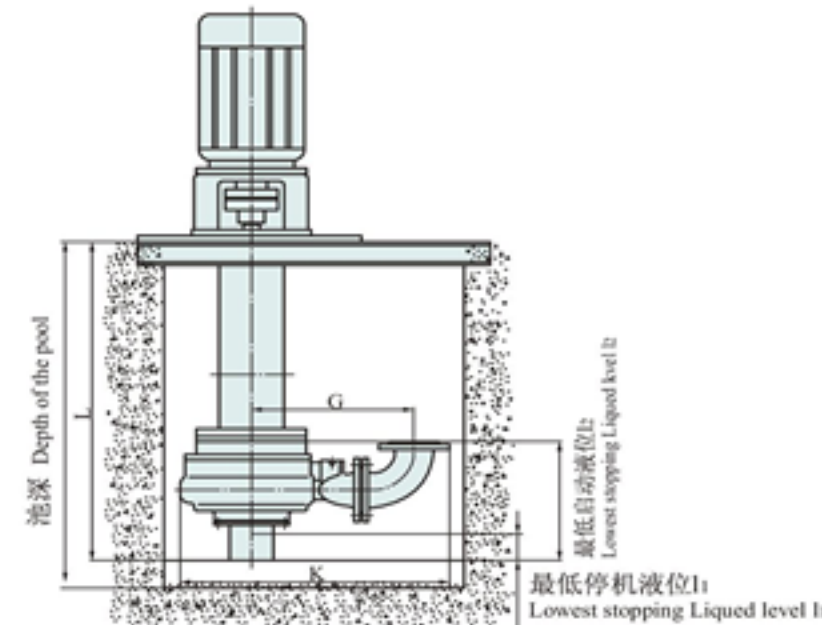
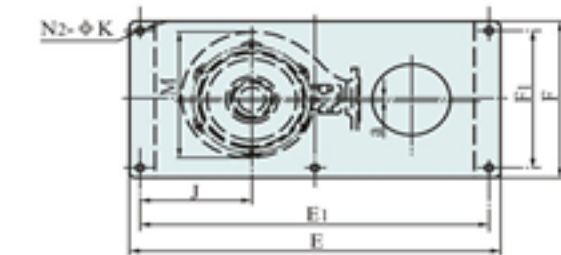
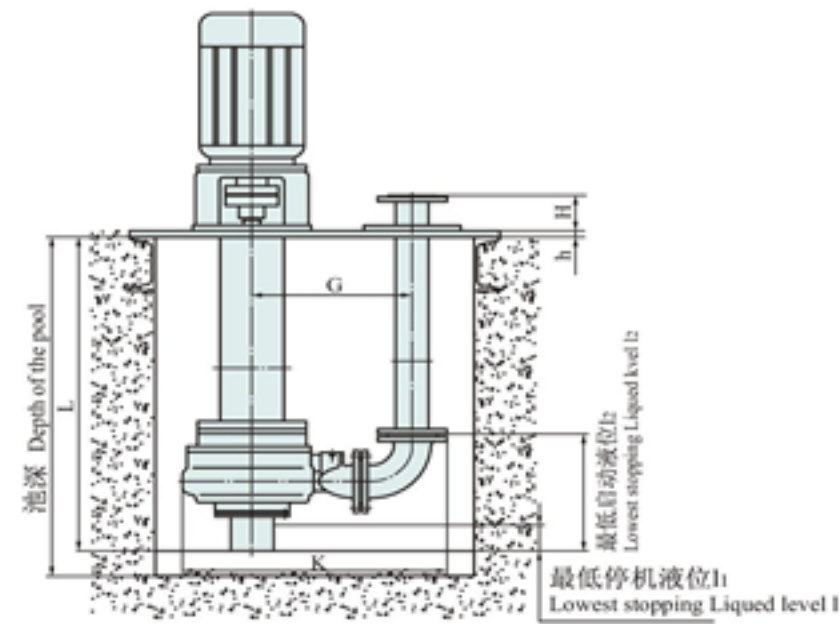
序号 No.	型 号 Type	出口法兰 Outlet flange					双管安装		单管安装	
		φA	φB	φC	φD	N ₁ -φd	E×F	E ₁ ×F ₁	O×Q	O ₁ ×Q ₁
30	100YW100-25-15	100	148	210	170	4-φ17.5	880×460	820×400	560×520	500×460
31	100YW100-30-18.5	100	148	210	170	4-φ17.5	880×460	820×400	560×520	500×460
32	100YW100-38-22	100	148	210	170	4-φ17.5	880×460	820×400	560×520	500×460
33	150YW150-7-7.5	150	202	265	225	8-φ17.5	1050×550	990×490	650×610	590×550
34	150YW150-8-7.5	150	202	265	225	8-φ17.5	1050×550	990×490	650×610	590×550
35	150YW150-13-11	150	202	265	225	8-φ17.5	1050×550	990×490	650×610	590×550
36	150YW150-18-15	150	202	265	225	8-φ17.5	1050×550	990×490	650×610	590×550
37	150YW150-22-18.5	150	202	265	225	8-φ17.5	1200×650	1140×590	750×710	690×650
38	150YW150-28-22	150	202	265	225	8-φ17.5	1200×650	1140×590	750×710	690×650
39	200YW300-6-11	200	260	320	280	8-φ17.5	1050×550	990×490	650×610	590×550
40	200YW300-9-15	200	260	320	280	8-φ17.5	1050×550	990×490	650×610	590×550
41	200YW300-12-18.5	200	260	320	280	8-φ17.5	1200×650	1140×590	750×710	690×650
42	200YW300-15-22	200	260	320	280	8-φ17.5	1200×650	1140×590	750×710	690×650
43	250YW500-10-22	250	312	375	335	12-φ17.5	1330×680	1270×620	790×740	730×680

注：1、L=0.5~10m；2、液下5m及5m以上分体运输，现场安装。
Note: 1 L=0.5~10m; 2. For the pump 5m or above under liquid will be separately shipped and then installed on the site.

本样本中提供的内容仅供参考，以实物为准。
用户要制作基础时，请以本公司盖章确认的基础尺寸图为准。
The content provided in this sample is for reference only, and the actual product shall prevail.
When users want to create a foundation, please refer to the foundation dimension diagram confirmed with our seal.

YW系列泵外形安装尺寸表 YW SERIES PUMP INSTALLATION DIMENSION

G	M	K	a	H	h	J	N2-φk	I1	I2
440	370	720	-	100	12	225	4-φ25	150	400
440	370	720	-	100	12	235	4-φ25	150	400
440	370	720	-	100	12	235	4-φ25	150	400
550	453	910	-	190	12	260	4-φ25	250	450
550	453	910	-	190	12	260	4-φ25	250	450
550	453	910	-	190	12	260	4-φ25	250	450
550	457	910	-	190	12	260	4-φ25	250	450
600	387	720	-	190	12	235	4-φ25	250	450
600	387	720	-	190	12	235	4-φ25	250	450
550	556	1070	40	200	20	310	4-φ25	300	500
550	556	1070	40	200	20	310	4-φ25	300	500
650	556	1070	40	200	20	310	4-φ25	300	500
650	556	1070	40	200	20	310	4-φ25	300	500
720	586	1160	40	215	20	330	4-φ25	350	550



YW系列泵外形安装尺寸表 YW SERIES PUMP INSTALLATION DIMENSION

序号 No.	型 号 Type	出口法兰 Outlet flange					双管安装		单管安装	
		φA	φB	φC	φD	N1-φd	E×F	E1×F1	O×Q	O1×Q1
1	150YW150-32-30	150	202	265	225	8-φ17.5	1200×650	1140×590	750×710	690×650
2	150YW150-40-37	150	202	265	225	8-φ17.5	1400×780	1330×710	900×850	830×780
3	150YW150-46-37	150	202	265	225	8-φ17.5	1400×780	1330×710	900×850	830×780
4	150YW150-50-45	150	202	265	225	8-φ17.5	1400×780	1330×710	900×850	830×780
5	150YW100-60-55	150	202	265	225	8-φ17.5	1400×780	1330×710	900×850	830×780
6	200YW300-23-30	200	260	320	280	8-φ17.5	1400×780	1330×710	900×850	830×780
7	200YW300-28-37	200	260	320	280	8-φ17.5	1400×780	1330×710	900×850	830×780
8	200YW400-27-45	200	260	320	280	8-φ17.5	1400×780	1330×710	900×850	830×780
9	200YW400-30-55	200	260	320	280	8-φ17.5	1400×780	1330×710	900×850	830×780
10	200YW400-35-75	200	260	320	280	8-φ17.5	1400×780	1330×710	900×850	830×780
11	250YW500-14-30	250	312	375	335	12-φ17.5	1520×820	1450×750	1000×880	930×810
12	250YW500-16-37	250	312	375	335	12-φ17.5	1520×820	1450×750	1000×880	930×810
13	250YW500-20-45	250	312	375	335	12-φ17.5	1520×820	1450×750	1000×880	930×810
14	250YW600-22-55	250	312	375	335	12-φ17.5	1520×820	1450×750	1000×880	930×810
15	250YW600-28-75	250	312	375	335	12-φ17.5	1520×820	1450×750	1000×880	930×810
16	300YW800-8-30	300	365	440	395	12-φ22	1650×930	1580×860	1050×980	980×910
17	300YW800-10-37	300	365	440	395	12-φ22	1650×930	1580×860	1050×980	980×910
18	300YW800-13-45	300	365	440	395	12-φ22	1650×930	1580×860	1050×980	980×910
19	300YW800-17-55	300	365	440	395	12-φ22	1650×930	1580×860	1050×980	980×910
20	300YW800-20-75	300	365	440	395	12-φ22	1650×930	1580×860	1050×980	980×910
21	300YW1000-21-90	300	365	440	395	12-φ22	1650×930	1580×860	1050×980	980×910
22	350YW1200-9-45	350	415	490	445	12-φ22	1800×970	1730×900	1100×1020	1030×850
23	350YW1200-11-55	350	415	490	445	12-φ22	1800×970	1730×900	1100×1020	1030×850
24	350YW1500-13-75	350	415	490	445	12-φ22	1800×970	1730×900	1100×1020	1030×850
25	350YW1500-16-90	350	415	490	445	12-φ22	1800×970	1730×900	1100×1020	1030×850

注：1、L=0.5~10m；2、液下5m及5m以上分体运输，现场安装。

Note: 1、L=0.5~10m；2、For the pump 5m or above under liquid will be separately shipped and then installed on the site.

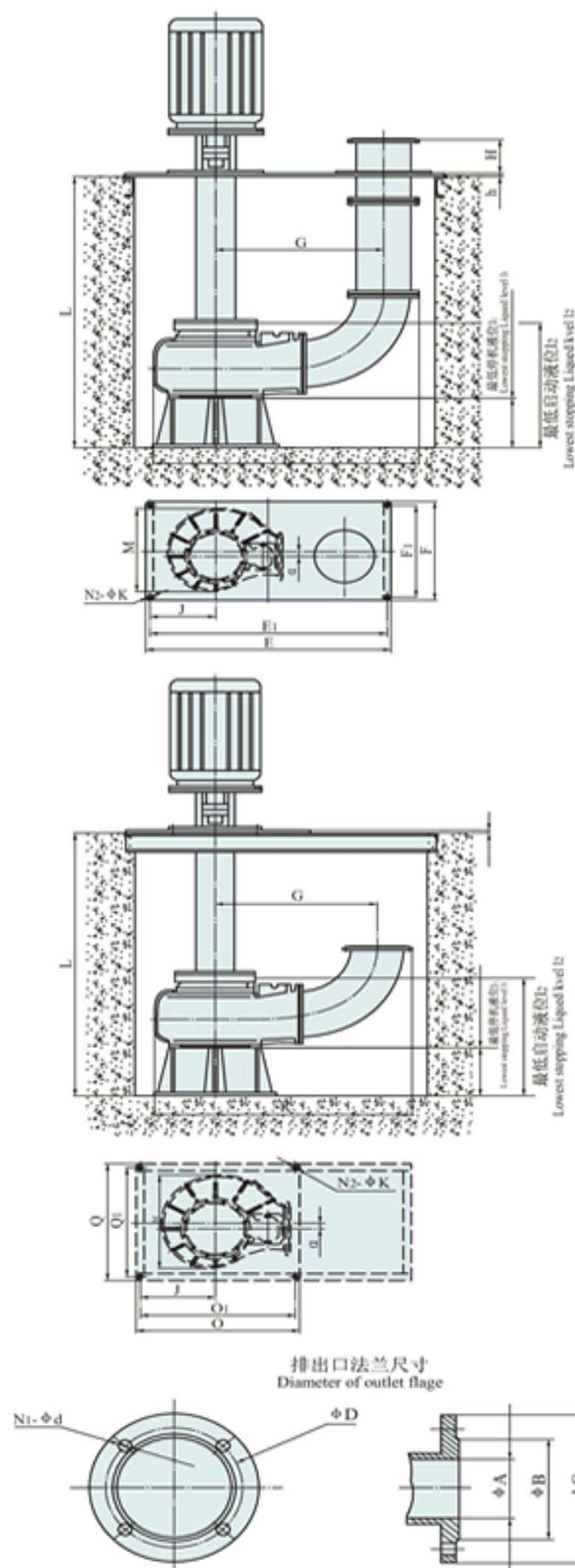
用户要制作基础时，请以本公司盖章确认的基础尺寸图为准。

The installation size data provided in the sample is for reference only!

When users want to create a foundation, please refer to the foundation dimension diagram confirmed with our seal.

YW系列泵外形安装尺寸表 YW SERIES PUMP INSTALLATION DIMENSION

G	M	K	a	H	h	J	N ₂ -Φk	l ₁	l ₂
600	603	1080	-	190	20	270	4-Φ25	250	450
650	603	1080	-	190	20	270	4-Φ25	250	450
650	603	1080	-	190	20	270	4-Φ25	250	450
650	603	1080	-	190	20	400	4-Φ30	250	450
650	603	1080	-	190	20	400	4-Φ30	250	450
750	685	1232	30	200	20	410	4-Φ30	300	550
750	685	1232	30	200	20	410	4-Φ30	300	550
750	685	1232	30	200	20	410	4-Φ30	300	550
750	685	1232	30	200	20	410	4-Φ30	300	550
850	720	1356	45	215	20	410	4-Φ30	350	600
850	720	1356	45	215	20	410	4-Φ30	350	600
850	720	1356	45	215	20	410	4-Φ30	350	600
850	806	1356	45	250	20	410	4-Φ30	350	600
850	806	1356	45	250	20	410	4-Φ30	350	600
900	824	1500	60	250	20	455	4-Φ30	450	700
900	824	1500	60	250	20	455	4-Φ30	450	700
900	824	1500	60	250	20	455	4-Φ30	450	700
900	824	1500	60	250	20	455	4-Φ30	450	700
900	824	1500	60	250	20	455	4-Φ30	450	700
950	865	1630	65	280	20	475	4-Φ30	500	850
950	865	1630	65	280	20	475	4-Φ30	500	850
950	865	1630	65	280	20	475	4-Φ30	500	850
950	865	1630	65	280	20	475	4-Φ30	500	850



泵的安装和使用 INSTALLATION AND USE

泵有单管安装和双管安装(加出液管)两种安装方式。
连接液下泵出液管的管路,应另设支架,不允许将外接管路的重量加在泵体上。
泵使用前,应仔细检查泵和电机有无损伤,检查紧固件紧固情况。
盘动泵检查有无摩擦声。
切勿用闸刀开关或直接挂电网来接通电源,可配备全自动水泵控制柜,确保水泵正常运行。
从电机端看叶轮为顺时针旋转,严禁反转运行。

泵的维护和保养 MAINTENANCE

泵的进口管路必须充满液体,严禁在缺液状态或汽蚀工况下运行,以提高泵的使用寿命。
电泵不得长期处于低扬程状态下运行,定期、定时检查电机电流值,以防水泵因过载而烧坏电机。
电泵应设专人管理与使用,定期检查水泵的电路及工作是否正常。
正常状态下,泵每使用5000小时左右,应加注或更换油室中机油,使机械密封保持良好的润滑状态,提高其使用寿命。

订货须知 NOTICE FOR ORDERING

订货时请注明使用扬程、流量、介质、温度、液下深度,以便本公司提供更为可靠之产品。
常规泵基本材料为铸铁,特殊工况、特殊介质请特殊订货,本公司将选择适当材料和结构来满足用户要求。
用户订货不受样本性能参数表中所列参数限制;本公司可根据用户要求设计制造。
用户要制作基础时,请以本公司盖章确认的基础尺寸图为准。
本样本中提供的内容仅供参考,以实物为准。公司保留样本技术更的权利。

There are single-pipe and double-pipe (for liquid out) two ways of installation for the pump.
The pipeline connected to the liquid-out pipe of the under-liquid pump should be fitted with a stand separately and it is not allowed to put the weight of the externally connected pipeline on the pump casing.
Before use, carefully check if both pump and motor damaged and check the situation of the fasteners.
Turn the pump with hand to see if there is a frictional sound.
Never use a knife switch to turn on the power or directly turn it on from the electric network, for which a fully automatic pump control cabinet can be equipped with to make sure of the pump's normal run.
The impeller moves CW viewed from the motor and never have it reversedly move.

The pump's inlet pipeline must be full of liquid and never let it run in the state of lack of liquid or under the working condition of steam corrosion in order to extend its life of use.
The pump is not allowed to run for a long time under a low-head state and take a periodic and timing check of the current value of the motor so as to prevent the pump from being burnt due to overload.
Designate a special person to take care of and use the pump and carry out a periodic check of it to see if the circuit and work are normal.
About every 5000h of use of the pump under the normal condition, fill the engine oil into the oil chamber or replace it so as to have the mechanical seal kept in a good lubricated state and its duration enhanced.

To order, please make a note of the used head, flow, medium, temperature and depth under-liquid so as for this Co. to supply more reliable products.
The ordinary pump is made of cast-iron. Please set a special order for work with special working conditions and special medium, this Co. will select proper material and structure to meet with the requirements.
User orders are not limited by the parameters listed in the sample performance parameter table; Our company can design and manufacture according to user requirements.
Users should take our approved basic dimension drawing stamped by the company as standard when making.
The content provided in this sample is for reference only, and the actual product shall prevail. The company reserves right to change sample technique.



YW系列立式液下污水泵(API610 VS4/VS5)

YW SERIES Vertical semi-submersible sump pump(API610 VS4/VS5)

故障原因及排除方法 FAILURES CAUSES AND TROUBLESHOOTING

故障 Failure	原因 Causes	排除方法 Troubleshooting
1、泵不出水 No water out of pump	a)电机反转 Motor reversedly move b)叶轮流道堵塞 Impeller geat blocked c)扬程过高 Too high head	a)改变转向 Change it b)消除杂物 Remove foreign matters c)改泵或降低扬程 Lower it or replace pump
2、流量不足 Insufficient flow	a)扬程过高 Too high head b)管道阻力过大 Too heavy pipeline resistance	a)降低扬程 Lower it b)减少管路弯道 Reduce flexural geats
3、扬程不够 Too heavy head	a)叶轮严重磨损 Impeller seriously damaged	a)更换 Replace it
4、电流过大 Too heavy current	a)使用扬程过低 Too low head used b)介质比重过大 Too hig medium gravity c)产生机械摩擦 Mechanical friction produced d)工作电压低 Low working voltage	a)改泵或调节流量 Adjust flow or replace pump b)更换大功率电机 Replace motor with one of a heavy power c)进行维修调节 Repair and adjust d)调整工作电压 Adjust it
5、泵有杂音或振动 Noise or vibration with pump	a)腐蚀使泵不平衡 Corrosion makes pump unbalanced b)轴承损坏 Bearing damaged c)流量过大 Too heavy flow	a)更换 Replace it b)更换 Replace it c)用闸阀节流 Throttle with gate valve

湖南立佳机械制造有限公司 Hunan Perfect Industry Co.,ltd

湖南立佳机械制造有限公司专注于立式离心泵的开发和生产，包括立式长轴透平泵（斜流泵、轴流泵、混流泵）、立式半潜浆液泵、立式污水泵、立式涡轮泵、立式筒袋式凝泵和直角齿轮箱等，用于湿坑泵/集水坑泵/地坑泵/取(排)水工程/泵站等。我们在发电厂和钢铁厂项目中赢得了许多国家投标，为我们的水泵提供了最高的质量和良好的售后服务。此外，我们还为国际品牌做了大量的OEM工作。我们的水泵在市政、工业、商业、消防、供水、废水、电力、防洪、建筑贸易、公用事业和成套系统市场表现良好。我们的水泵已运往东南亚、俄罗斯、南美、中东、澳大利亚和非洲。

Hunan Perfect Industry Co., ltd was established in 1998 as the result of restructuring of a state-owned pump manufacturers and plants of mineral machinery and chemical machinery.

During the past 20 years, we focused on the development and production of centrifugal pump, including long shaft pump (vertical turbine pump), vertical semi-submersible slurry pump, vertical sewage pump, axial and mix-flow pump, vertical can type condensate pump and gearbox. We have won a lot of national bids in power plant and ironworks projects, supplying our pumps with supreme quality and good after-sale services. Besides, we have done a lot of OEM for international brands. Our pumps present a good performance in the municipal, industrial, commercial, fire, water, wastewater, power, flood control, building-trade, utility and packaged system markets. Our pumps have been shipped to Southeast Asia, Russia, South America, Middle east, Australia, and Africa.



由于我们在不断努力改进产品，我们保留样本数据更改的权利！
Because we are constantly striving to improve products, we reserve the right to revise the sample data.