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WQ系列潜水排污泵 WQ SERIES SUBMERSIBLE SEWAGE PUMPS



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WQ SERIES SUBMERSIBLE SEWAGE PUMP



产品概述 Outline of the product

上海同沐研制开发的WQ系列潜水排污泵，吸收了国内外同类产品的优点，在水力模型，机械结构、密封、冷却、保护、控制等方面进行了综合性优化设计，排送固形物和防纤维缠绕的性能好，高效节能，可靠性强；配以专业开发的专用电控柜，不但可实现自动控制，更能确保电机的安全可靠运行；安装方式多样，简化泵站、节省投资。

WQ series submersible sewage pump developed in Shanghai Tongkeflow from the advantages with the same products made abroad and at home, holds a comprehensive optimized design on its hydraulic model, mechanical structure, sealing, cooling, protection, control etc. points, features a good performance in discharging solids and in the prevention of fiber wrapping, high efficiency and energy-saving, strong reliability and, equipped with a specially developed electric control cabinet, not only the auto-control can be realized but also the motor can be made sure to work safely and reliably. Available with various types of installation to simplify the pump station and save the investment.

主要用途 Main purpose

WQ系列潜水排污泵主要用于市政工程、楼宇建筑、工业排污和污水处理场合，排送含固形物和长纤维的污水、废水、雨水。

WQ series submersible sewage pump is mainly used for the municipal works, buildings, industrial sewage and sewage treatment to discharge the sewage, waste water and rainwater containing solids and long fibers.

使用条件 Conditions of use

- 1、介质温度不超过40℃，介质密度 $\leq 1050\text{kg/m}^3$ ，PH值在4-10范围内。
- 2、最低运行液位：见安装尺寸图中的▼（有电机冷却系统）或▽（无电机冷却系统）。
- 3、泵的主要零件材料为铸铁或球墨铸铁，所以不能应用于抽送强腐蚀性或含有强磨蚀性固体颗粒的介质。
- 4、介质中固形物的直径不应大于流道的最小尺寸，推荐为流道最小尺寸的80%以下。流道尺寸见后面各规格泵的“主要参数”\$ 介质中纤维的长度不应大于泵的排出口径。

1. The medium temperature is not over 40℃, the medium density is $\leq 1050\text{kg/m}^3$ and the PH value is within 4-10.
2. For the lowest running liquid level, see ▼ in the inst allation dimension chart (with the motor cooling system) or ▽(without the motor cooling system).
3. The materials of the main parts of the pump are cast iron or ductile iron, so it can not be used to pump strong corrosive medium or that containing strong abrasive solid grains.
4. The diameter of the solids in the medium shall not be bigger than the minimum size of the runner, recommended to be below 80 of the said size. See the "Main parameters" of the pumps in various specifications thereafter for the runner size and the length of the fibers in the medium shall not be over the discharge aperture of the pump.

WQ系列泵的特点和使用优点 Characteristic and advantages of use of WQ series pump

1、400口径以下泵的叶轮大部分为双流道叶轮，极少数为多叶片离心式叶轮。400口径及以上多为混流式叶轮，极少数双流道叶轮。泵体流道宽敞，固形物容易通过，纤维不易缠绕，最适合排送污水污物。

1. Most of the impellers with the pump of an aperture below 400 come as a bi-runner impeller and few of them is a multi-blade centrifugal impeller. While most of the impellers with the pump of an aperture 400 and above come as a mixed-flow impeller and few of them is a bi-runner impeller. The spacious pump casing runner lets the solids easily passing and the fibers uneasily wrapping so that it is most suitable for discharging sewage and dirt.

2、两个独立的单端面机械密封串联安装，其安装方式均为内装式，与外装式相比，介质更不容易泄漏，同时其密封摩擦副更容易被油室中的油所润滑。采用特殊螺旋槽或小缝隙阻止固体颗粒向泵侧机械密封沉积，保证其稳定工作。别具特色的机械密封布置方式和轴承组合。使轴的悬臂短，刚度大，跳动小，更有利于减少机械密封的泄漏，延长机械密封的寿命。

3、防护等级IPX8的电机潜水工作，冷却效果最佳，F级绝缘使绕组能承受更高的温度，比起普通电机，更加经久耐用。

4、专用电控柜与液位浮球开关和泵保护元件的完美结合，实现漏水和绕组过热的自动监测和报警，短路、过载、缺相、失压时的断电保护，泵的启动、停止、交替和最小淹没深度的精确的自动控制，无须专人看管，自耦降压启动和电子软启动任你选择，所有这些，全方位地确保您安全、可靠、无忧用泵。

5、电机和水力部件直联成一体，无须转轴对中，拆装方便省时间，有利于现场维护，减少停机时间，节省维修费用；结构简单紧凑，体积小，泵上有专门的起吊提手，只须用简单的起重设备；占地少，泵可以直接放到污水池中，不需要建造专门的泵房，可节约基建投资40%以上。

6、有自动耦合式安装、移动式硬管安装、移动式软管安装、固定式湿式安装、固定式干式安装五种安装方式供您灵活选择。

自动耦合式安装，泵与出水管路之间通过耦合装置的出水管座连接，不用常规紧固件，泵与出水管座连接，脱开时只须简单地将泵沿导杆放下、吊起，十分省心、省事、省时间。

固定式干式安装的潜污泵不仅可代替老式的立式排污泵，而且不怕洪水淹没，因此不需要额外的防洪设施，有利于降低基建成本。

2. Two independent single end-face mechanical seals are in-series mounted, with the installation mode as the internal installation mode, and, compared with the external installation mode, the medium is more uneasy to leak and also its sealing friction pair are easier lubricated by the oil in the oil chamber. A special spiral slot or a small seam is used to resist the solid grains to be deposited on the mechanical seal by the pump to make sure of its stable work. The unique mechanical seal layout mode and bearing combination makes the suspension arm of the shaft short, a heavy rigidity and a small jump, more benefit for reducing the leak from the mechanical seal and extending the life of it.

3. The motor of a protective grade IPX8 works in submerged mode and holds the best cooling effect. The grade F insulation makes the winding bearable to a higher temperature and, compared with common motors, more durable.

4. The perfect combination of the special electric control cabinet, the liquid level floating-ball switch and the protective components carries out the automatic monitor and alarm for water leak and winding overheat, the protections at short-circuit, overload, lack-of-phase and voltage-lost cut-off, the accurately auto-controls of start, stop, alternation and minimum submerged depth of the pump, without need of special persons for looking-after, option at will is available between the self-coupled reducing start and electronic soft start. All of these makes sure of safe and reliable use of the pump without any worry.

5. Both motor and hydraulic parts are directly linked together, without need of turning the shaft for centering, easily disassembled and assembled to save the time, benefit for the site maintenance, reducing the stopped time, saving the cost of repair; simple and compact structure leaves a small volume, only simple lifting equipment is needed, as a special lifting handler is set on the pump; less land area and the pump can be placed directly in the sewage pond, without need of a special pump house, and the therefore the construction investment can be saved by over 40.

6. Available with five installation modes for you to choose: auto-coupled, movable hard-pipe, movable soft-pipe, fixed wet type and fixed dry type installation modes.

The auto-coupled installation means the connection between the pump and the water-out pipeline is made with the water outlet pipe seat of the auto-coupling, without use of the common fasteners, and, when to separate the pump from the water outlet pipe seat, just place it down along with the guide rod and then lift it, simply enough to get free from worry and trouble and save time.

The submersible sewage pump in the fixed dry type installation not only can replace the old vertical sewage pump but also does not fear of flood submersion, so there is no need of a separate flood-proof facility, benefit for lowering the cost of construction.

移动式硬管安装、移动式软管安装、固定式湿式安装都是非常简便的安装方式。

7、泵可装置电机冷却系统，不仅可充分冷却电机，还有利于降低污水池的液位，最大限度地排除池中的污水。

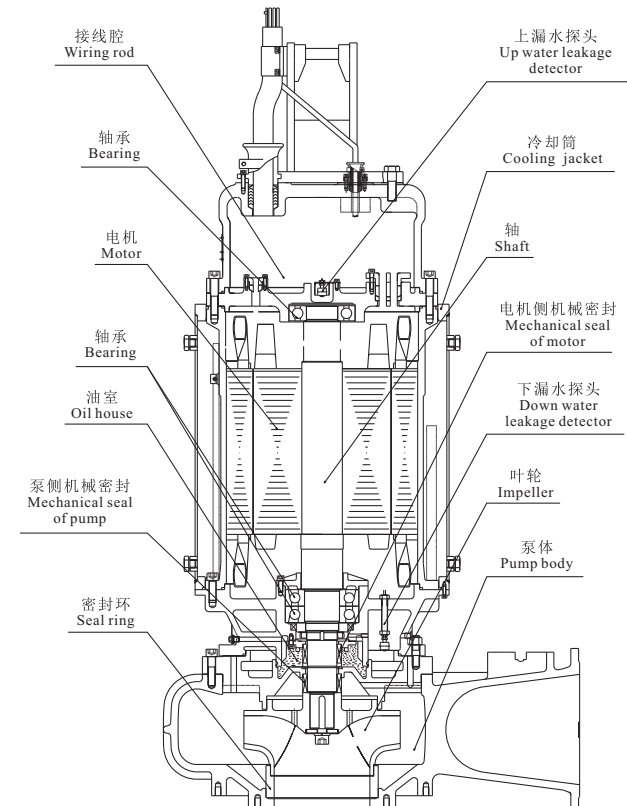
8、泵潜水工作，基本不存在噪声问题，有利于保护环境。

Both movable hard-pipe and soft-pipe installations, as well as the fixed wet type one, are all the very simple modes of installation.

7. A motor cooling system can be set with the pump, which can not only sufficiently cool the motor but also be helpful for lowering the level of the sewage pond so as to discharge the sewage therein to the utmost degree.

8. The pump works in the submerged mode, so there is no noise problem and benefit for environmental protection.

WQ型结构图 Model WQ structure drawing



WQ型结构说明 About the structure of model WQ

泵体、叶轮

采用CAD技术进行反复修改设计，使泵体和叶轮得到最佳匹配，流道最宽阔，污物通过性最好。叶轮经严格平衡，从而使振动减至最低，并最大限度地延长轴承和机械密封的寿命。

电机

专门设计制造的潜水电机，防护等级为IPX8，定子绕组为F级绝缘，绝缘材料的极限工作温度155℃。绕组内嵌有过热保护元件，通过电控拒对电机进行保护。

电机的冷却

功率11kW及以上的泵可装置电机冷却系统对电机进行冷却。冷却介质在定子外壳和冷却套筒之间流动。冷却介质可以是被泵送介质，也可以是外接冷却水

（功率11kW~30kW-4P的泵只能用外接冷却水）。用被泵送介质冷却与用外接冷却水冷却，冷却通道有所不同，所以，用户要装置冷却系统时，应在订单中说明是用被泵送介质冷却还是用外接冷却水冷却。当冷却介质是被泵送介质时，泵的结构可以防止大颗粒进入冷却通道。长时期运行后，套筒中可能形成小颗粒的淤积，可以通过冷却套筒上的管接头外接冲洗液进行冲洗。采用电机冷却系统的好处是可以降低最低液位，有利于最大限度地排除集水井中的污水。

功率11kW及以上的泵也可以不装置电机冷却系统，由被泵送介质直接冷却电机，但这种情况下的液位比有冷却系统时的液位要高许多。

功率7.5kW及以下泵的电机是通过定子外壳上的散热片由被泵送介质来冷却的，介质要能淹没定子为好，至少应淹没定子的一半。

机械密封

机械密封选用摩擦系数很低而且耐磨的摩擦副材料，橡胶件为耐油的丁腈橡胶，金属件为不锈钢。

油室

油室内的油，除了润滑机械密封外，还可将轴承的热量带走，还具有阻止液体渗透的附加安全功能。

油室内装有漏水探头，当泵侧机械密封渗漏到油室的水达到一定浓度时，漏水探头通过电控柜报警，

Pump casing, impeller

The design for both pump casing and impeller has been repeatedly modified by means of CAD technique to make both best matched, the runner most wide and the passing ability of dirt most optimized. The impeller has been made strictly balanced so as to let the vibration reduced to minimum and the life of both bearing and mechanical seal to the utmost degree.

Motor

The specially designed and made submersible motor holds a protective grade IPX8, the stator winding is in grade F insulation and the limit working temperature of the insulation material is 155℃. An overheat protective element is inlaid inside of the winding and performs protection of the motor through the electric control cabinet.

Cooling of the motor

The pump of a power 11kW and above can be set with a motor cooling system to cool the motor. The cooling medium, either the pumped medium or the externally led-in cooling water (for the pump of a power 11kW-30kW-4P, only the externally led-in cooling water can be used), flows in between the stator casing and the cooling sleeve. For the two cooling modes, the cooling channels are a little bit different, so it shall be noted at order when the cooling system is required. In case the pumped medium is used as the cooling medium, the pump structure can prevent large grains from getting into the cooling channel. After a long time work, deposit of small grains may be formed inside of the sleeve and, to eliminate it, flushing with flushing liquid connected onto the pipe joint of the cooling sleeve can be performed. Use of the motor cooling system is good at lowering the minimum liquid level and helpful for discharging the sewage in the water collecting well to the most degree.

It is also ok for the pump of a power 11kW and above not to be set with a motor cooling system and let the motor cooled directly by the pumped medium, however, in this condition, the liquid level will be much higher than that with the cooling system.

The motor with the pump of a power 7.5kW and below is cooled by the pumped medium through the radiation fins on the stator casing and it is better for the stator to be submerged in the medium, at least half submerged.

Mechanical seal

The mechanical seal is made of the frictional pair material which is wearable and of a very low frictional coefficient, the rubber part is made of the oil-resisting acrylonitrile-butadiene rubber and the metal part is made of stainless steel.

Oil chamber

In addition to lubricating the mechanical seal, the oil in the oil chamber also offers the additional safety functions to bring the heat away from the bearing and resist the liquid penetration.

A water-leak probe is set inside of the oil chamber and,

提醒操作人员换油或维修机械密封。

油室注油孔的结构能加快注油速度，而且能保证油室内留有一定体积的空气，使得油温度升高后油室内压力不致大幅度上升，从而避免机械密封过度磨损或泄漏。

轴承

上部的轴承是深沟球轴承，用于承受径向作用力。

下部的轴承，用于承受径向力和轴向力，各型泵依径向力和轴向力的大小不同，有的设计成一个双列角接触球轴承，有的是一对角接触球轴承，都有充分的负荷裕度，而且采购名牌优质轴承，使得轴承在泵的可用期内不会损坏。

电缆、电机的密封

电缆选用耐污水的重型橡胶套电缆，其机械强度和耐油污性优越。电缆导线截面积和载流能力是按环境温度40℃（而不是通常按25℃）长期连续工作的条件选定的，因而在通常的使用条件下，电缆的载流能力有足够的裕度，寿命更长。

电缆压盖压紧电缆密封圈，使电缆与接线腔之间实现可靠的密封。对电缆进行固定，防止拉脱。电缆采用颜色标志加数码标志，使电缆的识别和连接更加容易。电机接线腔内和电控柜设有接地标志和接地紧固件，电缆严格接地，安全可靠。

装配过程中，对每台泵的O形圈、电缆密封和机械密封，都要进行严格的密封检测试验，保证电机腔包括接线腔实现可靠的密封。

保护装置

30kW-4P及以下的泵设有电机绕组过热保护元件和漏水探头；30kW-4P以上的泵设有电机绕组过热保护元件、上浮子开关，在电机上端盖内还增设了一个上浮子开关。保护装置必须与潜污泵专用电控柜相连才能起作用。虽然我公司的潜污泵专用电控柜是作为选购件供应的，但为了您的泵能安全可靠运行，特别是为了防止烧毁电机，采用我公司的潜污泵专用电控柜是您明智的选择。用户自备电控柜时，有关电气技术问题特别是保护装置的电气技术问题，请务必与本公司电控柜专业组联系。

when the water penetrated in from the mechanical seal by the pump reaches a certain concentration, it will alarm via the electric control cabinet to prompt the operator to replace the oil or repair the mechanical seal.

The structure of the injection hole in the oil chamber can make the oil injection speed quickened and also ensure a certain volume of air therein so as to have the pressure therein not greatly rise after the oil temperature gets raised to prevent the mechanical seal from getting over-wearing or leaking.

Bearing

The bearing on the upper is a deep groove ball bearing and used to bear the radial force while the one on the lower bears both radial and axial forces. Upon the different radial and axial forces, one double row angular contact ball bearing and one pair of angular contact ball bearing are designed separately with some of the pumps and both are full of loading margin. All the bearings are the well-known brand products and will not get damaged within the workable period of the pump.

Cable and sealing of the motor

The cable is the sewage-resisting heavy-type rubber-jacket cable and holds an excellent mechanical strength and oil-dirty resistance. Both sectional area and current-carrying capacity of the cable conductor are selected according to the long-term continuous work under a 40℃ ambient temperature (not the common 25℃), so, under the common condition of use, it holds a sufficient margin with the current-carrying capacity and a longer life.

The cable gland tightly presses the cable seal ring to leave a reliable sealing between the cable and the wiring cavity, to fix the cable and prevent it from pull-off. With the color mark plus the digital mark, the cable becomes easier identified and connected. Inside of the motor wiring cavity and the electric control cabinet grounding marks and grounding fasteners are set in order to make the cables strictly grounded, safe and reliable.

It is required, during the assembling, to perform a strict sealing check and test on the O-ring, the cable's seal and the mechanical seal so as to make sure of a reliable sealing of the motor cavity, and the wiring cavity as well.

Protectors

For the pump of 30kW-4P and below, both motor winding overheat protective element and water-leak probe are set; while for that over 30kW-4P, a motor winding overheat protective element and a lower float switch are set, as well as a upper float switch which is set inside of the upper end-cover of the motor. These protectors will not function until being linked to the electric control cabinet special for the submersible sewage pump. Though the said electric control cabinet made in this Co. is optional at supply, selection of it is still sensible, in order to have the pump safely and reliably workable and, in particular, to avoid burnt-out of the motor. When the electric control cabinet is prepared by the user himself, please do contact the electric control cabinet special group of this Co. for the related problems of electric technique, specially those on the protectors.

各种保护装置的说明 Various protectors

过热保护元件

过热保护元件是由温度控制动作的电器，嵌装于电机定子绕组内。在不正常运行状况下，当绕组温度达到过热保护元件的设定值时，过热保护元件通过电控柜使“过热”指示灯亮并自动停止电机，提醒操作人员进行检查，找出电机过热的原因。

绕组温度下降后，电机会恢复到可开机状态。

漏水探头

漏水探头用作漏水检测。漏水探头一端两个电极引线通过电缆接到电控柜，当电机侧机械密封泄漏到油室内的水达到一定程度时，或者电机接线腔稍稍进水，漏水探头的两个电极即导通，通过电控柜发出报警信号（指示灯亮）提醒操作人员及时检查机械密封或更换油室内的油。电机接线腔进水时，漏水探头通过电控柜发出报警信号（指示灯亮）并保持断电停泵状态，可以防止发生短路，提醒操作人员立即采取检查维修措施。

浮子开关

浮子开关用作检测电机侧机械密封是否失效，电机腔是否进水。浮子开关安装于电机腔下侧、轴承旁边的空腔内，空腔有孔与轴承室相通。当电机侧机械密封失效，油室内的油或水通过轴承室进入空腔，或者进入电机腔的水流入空腔，都会将浮子开关的浮子浮起，通过电控柜发出报警信号（指示灯亮）并使泵自动停止运行，提醒操作人员检修泵。

起吊装置

泵的提手具有合理的结构，使起吊方便、安全。



Overheat protective element

The overheat protective element is an electric appliance with the action controlled by temperature and inlaid in the stator winding of the motor. When the winding temperature reaches the set value of it in an abnormal working state, it will make the "Overheat" indicator lit and automatically stop the motor to prompt the operator to check and find out the cause.

When the winding temperature lowers, the motor will be reset to the state able to start.

Water-leak probe

Used to check water-leak. The leads from the two electric poles on one end of it are connected to the electric control cabinet via a cable and the two electric poles will be conducted through, once the water leaked into the oil chamber from the mechanical seal by the motor reaches a certain degree or a little bit of water gets into the motor's wiring cavity, and send out an alarming signal (the indicator is lit) to prompt the operator to check the mechanical seal or replace the oil in the oil chamber on time. When water gets into the said wiring cavity, the probe will send out an alarming signal (the indicator is lit) via the electric control cabinet and keep the power-off and pump-stop status so as to prevent short-circuit and prompt the operator to use the repair measures at once.

Float switch

Used to check if the mechanical seal by the motor is out-of-work and if there is water inside of the motor cavity and mounted in the empty cavity by the bearing and on the lower side of the motor cavity, with a hole on the empty cavity through to the bearing room. When the said mechanical seal becomes unworkable, the oil or water in the oil chamber will get into the empty cavity via the bearing room or the water getting into the motor cavity will flow into the empty cavity to have the float in the float switch floating, thus to send out an alarming signal (the indicator is lit) via the electric control cabinet and have the pump automatically stopped to prompt the operator to perform pump overhaul.

Lifter

The handler on reasonable structure

the pump features a and makes lifting easy and safe.



WQ型泵主要零件的材料 Materials of the main parts with model WQ pump

零件 Part	泵体、叶轮、泵盖 Pump casing, impeller, pump cover	电机、机壳 Motor, casing	轴 Shaft	机械密封材料 Materials of mechanical seal			
材料 Material	HT200 或球墨铸铁 or ductile iron	HT200	2Cr13 3Cr13	电机侧摩擦副 Frictional pair by the motor 石墨/碳化硅 Graphite/Silicon carbide 石墨/碳化钨 Graphite/Tungsten carbide	泵侧摩擦副 Frictional pair by the pump 碳化硅/碳化硅 Silicon carbide/Silicon carbide 碳化硅/碳化钨 Silicon carbide/Tungsten carbide 碳化钨/碳化钨 Tungsten carbide/Tungsten carbide	弹簧 Spring 不锈钢 Stainless steel	橡胶件 Rubber part 丁腈橡胶 Acrylonitrile-butadiene rubber

WQ型泵安装方式 Installation mode of model WQ pump

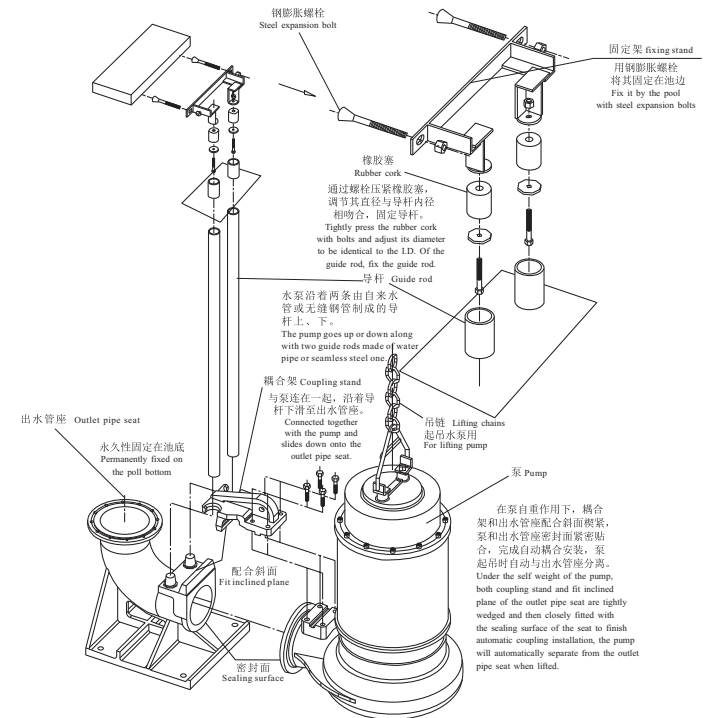
1、自动耦合式安装 Auto-coupled installation

WQ系列潜水排污泵有自动耦合式安装、固定式干式安装、固定式底座安装、软管移动式安装、硬管移动式安装，无论哪种安装方式都很简便。

下面分别加以介绍

With WQ series submersible sewage pump, there are auto-coupled, fixed dry-type, fixed wet-type, fixed foundation, soft-pipe movable and hard-pipe movable modes of installation, whichever mode is very simple.

Here comes the separate introduction.



自动耦合式安装实际上就是利用耦合装置连接泵和管道。有了耦合装置，泵和出水管路就是相互独立的了，无须用常规的紧固件连接，所以泵与出水管路的连接和脱离就非常容易了。耦合装置其实很简单，只有出水管座、导杆、固定架、耦合架等。导杆只起导向作用，不受力，用普通自来水管或钢管就可以了，用户可以自备，而且可以很方便地根据池深切割成需要的长度。安装时，将出水管座、导杆、固定架装好，将耦合架装到泵体上，吊起泵，将耦合架上的半圆孔口穿入导杆，把泵沿导杆向下滑到底，耦合架就会把泵体和出水管座扣紧，同时泵体出口和出水管座入口就自动对准了，法兰端面也自动贴紧了。需要维修泵时，只需把泵向上提，泵体和出水管座就脱开了。这种安装方式，省心、省力、省事。

由于耦合装置和泵是相对独立的，所以，如果您的泵站因情况变化需换用同口径的低扬程或高扬程的泵，可以仍然使用原来的耦合装置。

固定式干式安装

泵房与集水池是分隔的。

在基础上固定好底座，连接好进水管与出水管，即可运行。

由于泵是可潜水的，所以即使泵房被淹，也不影响泵的使用。

这种安装方式常常被用来改造老式泵站。

干式安装的泵必须有电机冷却系统。

Fixed dry type installation

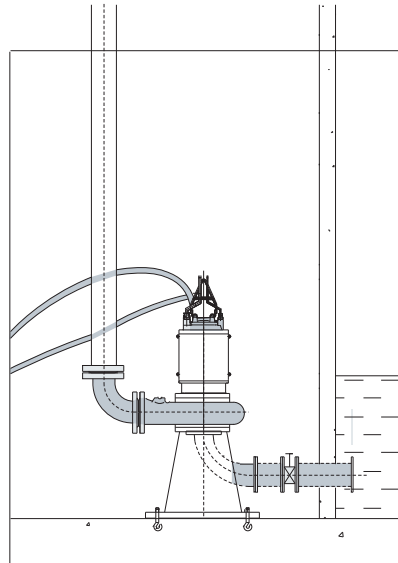
The pump house is separated from the water collection pond.

Fix the foundation on the basis and connect both water inlet and outlet pipes, then start running.

Use of the pump will not be affected, even if the pump house is submerged, as it is submersible.

This installation mode is usually used for reforming the old pump station.

The dry-type installed pump shall be set with the motor cooling system.



The auto-coupled installation actually means to utilize a coupling to connect both pump and pipeline and, with the coupling, both pump and water outlet pipeline become mutually independent, without need of the common fasteners for connection, and connection and separation between both becomes very easy. The coupling is really simple and consists of water outlet pipe seat, guide rod, fixing stand, coupling stand etc. only. The guide rod functions direction guide, without bearing force, and can be made just with tap water tube or steel pipe, users can make it by themselves easily in the desired length upon the pond depth. In installation, mount the water outlet pipe seat, guide rod and fixing stand, mount the coupling stand on the pump casing, lift the pump, get the semi-circular hole on the coupling stand through into the guide rod and slide the pump downward along with the guide rod till the end, then the coupling stand will buckle both pump and outlet pipe seat tightly and, at the same time, the outlet on the pump casing will be automatically aligned with the entrance of the said seat and the flange end-face will be also fitted tightly. When the pump needs to be repaired, the pump casing will be easily separated from the said seat by just lifting it upward, free of worry and trouble and saving labor.

Because of the relative independence between the coupling and the pump, the original coupling can be still used when the low or high head pump of the same aperture needs to be alternated due to changed conditions in your pump station.

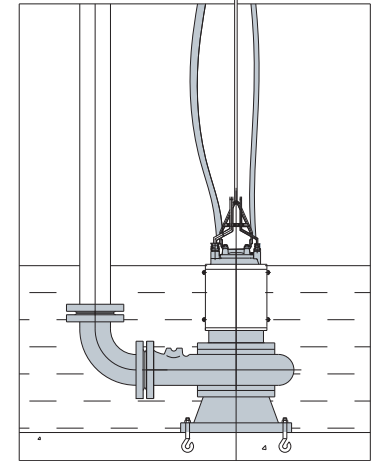
固定式湿式安装

在基础上固定好支撑底座，连接好出水管即可运行。底座可以用地脚螺栓固定。考虑到维修泵时的便利，如果管道有足够的刚性，也可以不装地脚螺栓。

Fixed wet-type installation

Fix the support foundation on the basis and connect the water outlet pipe, then start running.

The foundation may be fixed with foot bolts, however, the foot bolts may not be placed if there is sufficient rigidity with the pipe, for the sake of pump repair.



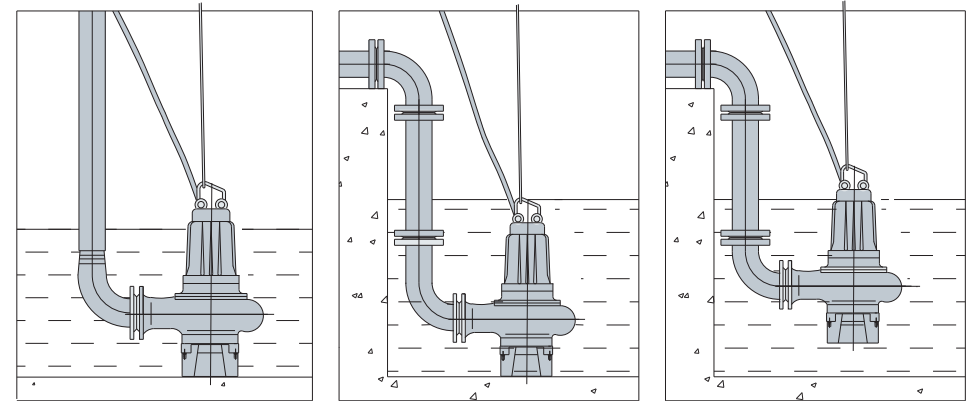
移动式安装

它以底座支承，接上出水软管或硬管即可工作。

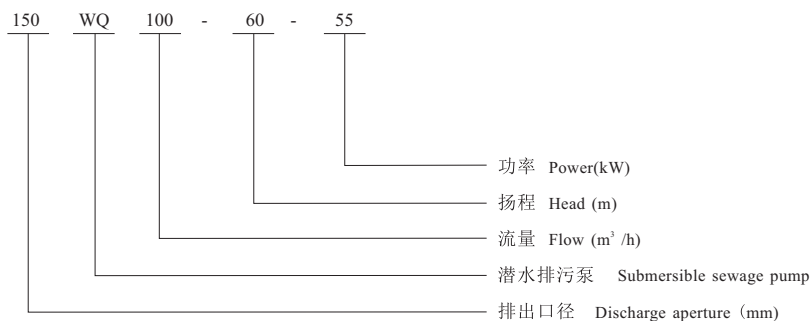
这种方式主要用于救急或维修、施工的需要。接硬管时，如果管道有足够的刚性，也可以用管路把泵悬挂起来使用。

Movable installation

This mode of installation is supported by the foundation and mainly for the need of first-aid, repair or construction and, when connected with a water outlet soft or hard pipe, work can be started. In case of a hard pipe, it can be used to make the pump suspended for use, if it is rigid enough.



WQ型泵型号说明 About the model of model WQ pump



额定电压、额定频率

电机的额定电压为380V，额定频率为50Hz。

WQ型潜水排污泵电机绕组引出线的接法：3kW及以下用星形（Y）接线法；4kW-11kW、132kW及以上用三角形（△）接线法。泵出厂时，接线盒内已按此接好。4kW-11kW适合直启动，132kW及以上适合于直启动、自耦降压启动或外接法电子软启动器启动。

15-110kW的绕组接线法有两种：一、绕组的6条引线用两根主电缆分别引出，适合于Y-△启动或内接法电子软启动器启动；二、在接线盒内按△接法连接绕组，适合于自耦降压启动或外接法电子软启动器启动。

旋转方向

从泵吸入口看，叶轮为逆时针方向旋转。

Rated voltage, rated frequency

Of the motor, the rated voltage is 380V and the rated frequency is 50Hz.

The way to connect the leads of the motor winding of model WQ submersible sewage pump: use the star (Y) wiring method for 3kW and below and the delta (△) one for 4kW-11kW, 132kW and above. Wiring inside of the wiring case has been made accordingly at ex-works of the pump. 4kW-11kW is suitable for direct start and 132kW and above is suitable for direct start, auto-coupled pressure reducing start or that with an external electronic soft starter.

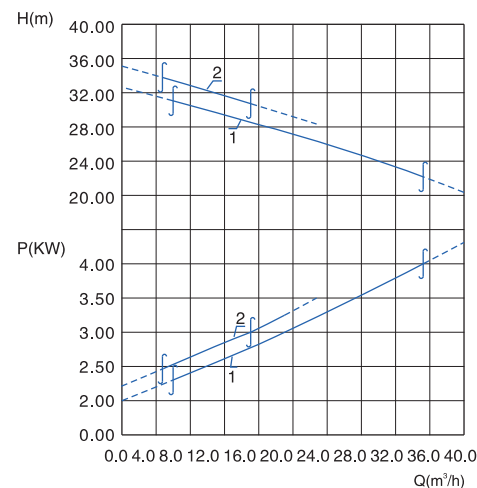
Two wiring ways with the winding of 15-110kW: 1. The six leads of the winding are led out separately by two primary cables, which is suitable for Y-△ start or that with an internal electronic soft starter; 2. Use the △ wiring way to connect the winding in the wiring case, which is suitable for the auto-coupled pressure reducing start or that with an external electronic soft starter.

Rotation direction

The impeller moves CCW, viewing from the suck-in port of the pump.

性能曲线和主要参数的说明 Performance curve and main parameters

性能曲线图和主要参数例一
Example 1 of performance curve chart and main parameters



图上曲线的实线部分表示泵的推荐使用范围。超出范围时，泵的效率很低或是电机有超载的危险。图示的这类泵，轴功率随流量增大而陡升，如果泵的流量超出右边的流量界限，轴功率会超过电机的额定功率，当介质温度较高或电机得不到充分冷却时，电机不能长时间工作。而且，泵可能产生振动、噪声等问题。

对于所有的潜污泵，当流量小于左边的界限时，泵的轴功率都远低于电机的额定功率，而且机组效率很低，在这种工况下用泵是很不经济的。

介质中固体物的直径不应大于流道的最小尺寸，推荐为流道最小尺寸的80%以下。例如，对图示的50WQ25-25-4型泵，固体物的直径不应大于30mm。

泵重不包括各种安装方式的附件，如耦合装置、底座、硬管接头、软管接头等。

主要参数 main parameters

排出口径 Discharge aperture 50mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	50WQ25-25-4	椭圆形 Ellipse 39 × 27.6	4	2880	65
2	50WQ15-30-3	椭圆形 Ellipse 39 × 27.6	3	2880	55
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	8.1	0.88	85	2.3	
2	6.5	0.87	83	2.3	

The solid line portion of the curve in the chart means the recommended range of use of the pump and, once out of the range, the pump efficiency will become very low or there will be the danger for the motor to get overloaded. With the pump shown in the chart, the axial power of it will rise rapidly along with the increased flow and, if the flow of it is over the flow limit on the right side, will surpass the rated power of the motor and then, when the medium temperature stays higher or the motor can not get cooled sufficiently, the motor will be unable to work for a long time and vibration, noise etc. problems will occur with the pump.

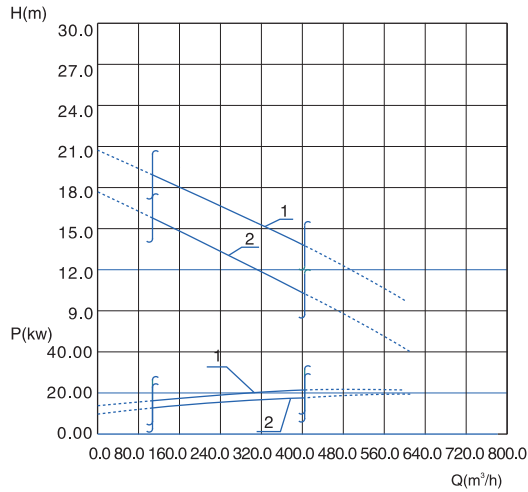
For all the submersible sewage pumps, the axial power will be far below the rated one of the motor, when the flow is smaller than the limit on the left side, and the unit efficiency will become very low, very uneconomic to use the pump under this working conditions.

The diameter of the solids in the medium shall not be bigger than the minimum size of the runner, recommended as below 80% of it. For instance, for model 50WQ25-25-4 pump shown in the chart, the said diameter shall not be bigger than 30mm.

The pump weight does not include the accessories in the various modes of installation, such as the coupling, foundation, hard pipe joint, soft pipe joint and so on.

性能曲线和主要参数的说明 Performance curve and main parameters

性能曲线图和主要参数例二
Example 2 of performance curve chart and main parameters



类似于图例二250WQ400-13-22型的泵，轴功率增大到一定值后就不再增加，这样的泵一般没有超载的危险，即使偶然有一点超载也是有限度的，所以这样的泵在任何流量下使用时电机都是安全的。但是，最好还是在推荐的范围内使用，因为在推荐范围内泵的效率较高，用泵较经济。而当流量小于左边的界限时，机组效率很低。当流量大于右边界限时，泵可能产生振动、噪声等问题。

主要参数 main parameters

排出口径 Discharge aperture 250mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	250WQ400-13-22	椭圆形 Ellipse 109.3 × 124.2	22	1470	580
2	250WQ400-10-18.5	椭圆形 Ellipse 109.3 × 124.2	18.5	1470	550
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS Φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	42.7	0.86	91	2.2	
2	36.1	0.86	90.5	2.2	

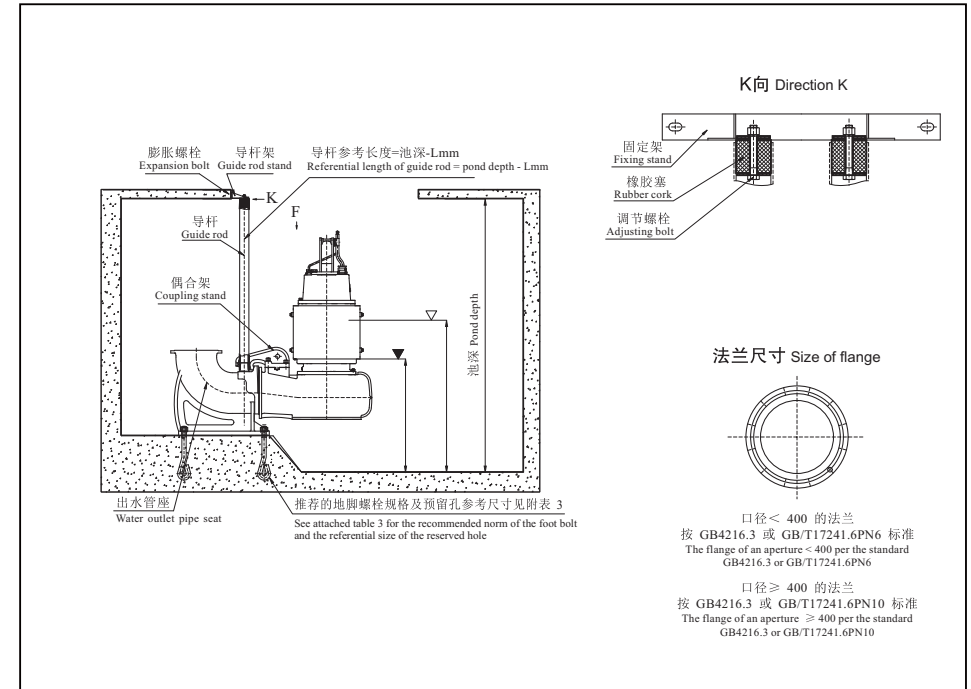
For the pumps similar to model 250WQ400-13-22 pump shown in the chart of Example 2, the axial power will be no longer increased when getting to a certain value, so there is no danger of overload with them, in general, and, even if an occasional overload, it is limited and therefore the motor will be safe when the pump is used at any flow. But it would be better to use within the recommended range, because this will leave a higher efficiency to the pump and more economic use of it. While, when the flow is smaller than the limit on the left side, the efficiency of the unit will become very low and, when bigger than the limit on the right side, vibration, noise etc. problems will occur with the pump.

安装尺寸图的说明 About the installation dimension chart

有自动耦合式安装、固定式干式安装、固定式底座安装的尺寸图的说明

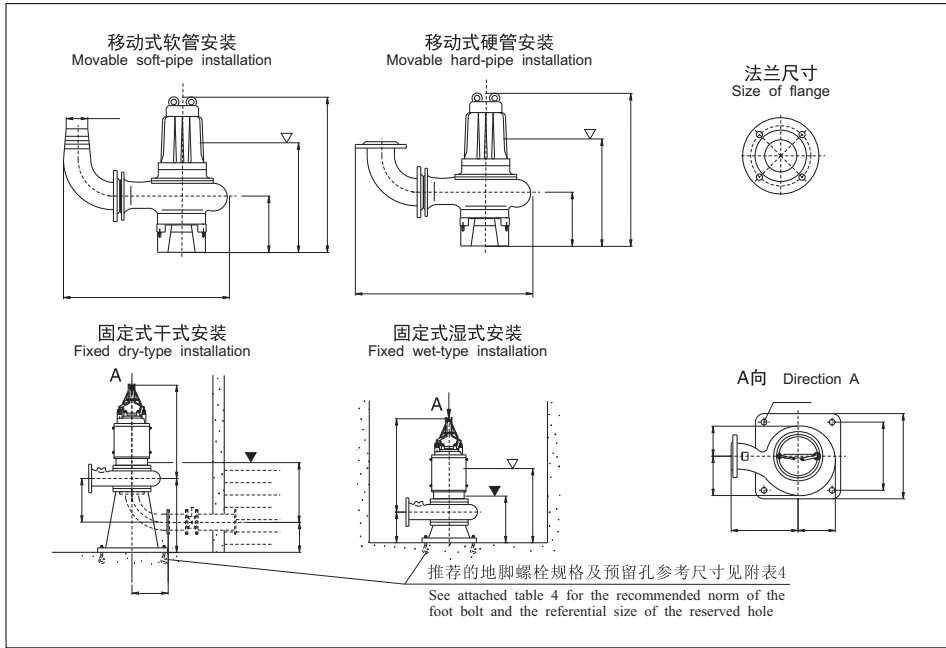
Description to the installation dimension chart of the auto-coupled, fixed dry-type and fixed foundation installations

自动耦合式安装
Auto-coupled installation



1. 所有固定架都可以用M16×150 I型膨胀螺栓固定。膨胀螺栓很容易购得，可以自备，也可以向我司订购。
2. 应按“池深”计算导杆的长度。有关导杆的资料见附表1。

1. All the fixing stands can be fixed with M16×150I type expansion bolt, which can be easily purchased or made by users, or ordered from this Co.
2. The length of the guide rod shall be calculated per the "Pond depth" see the attached table 1 for the information about the guide rod.



- ▽表示的是泵没有电机冷却系统时的最低液位。液位应高于最低液位，可能情况下最好把泵全部淹没，使电机得到充分的冷却。最低液位可用浮球开关来控制。我司的潜污泵专用电控柜都是液位控制型的，都配带一定数量的浮球开关。
- 同型号泵，固定式干式安装和固定式湿式安装的底座安装尺寸相同，底座的形状和尺寸如A向视图所示。
- 移动式安装的泵，软管接头或硬管接头由我司提供。移动式软管安装时各种口径的泵适用胶管的内径见附表2。
- 对于固定式干式安装，不需预制水泥凸台，底座含有吸入弯管，由我司提供，用地脚螺栓固定底座。对于固定式湿式安装，可以装地脚螺栓固定底座。如果管路有足够的刚度，也可以不装地脚螺栓，以便于维修。

- ▽ means the lowest liquid level at the time without the motor cooling system. The liquid level shall be higher than the lowest one and, if possible, better to get the whole pump submerged so as to make the motor cooled sufficiently. The lowest liquid level can be controlled by the float switch. The submersible sewage pump specially used electric control cabinets made in this Co. are all the liquid level controlled and equipped with a certain number of float switches.
- For the pumps of the same model, the installation dimensions of the foundation for the fixed dry-type and wet-type installations are the same and both shape and dimension of the foundation is as shown in Direction A view.
- For the pump in the movable installation, the soft pipe or hard-pipe joint will be supplied by this Co.. Please see the attached table 2 for the inner diameters of the rubber tubes suitable for the pumps of various apertures in the movable soft-pipe installation.
- For the fixed dry-type installation, there is no need of a pre-made cement boss and the foundation contains a suck-in elbow, supplied by this Co., and is fixed with foot bolts. For the fixed wet-type installation, foot bolts can be set for fixing the foundation or may not be used, if the pipeline holds a sufficient rigidity, for the sake of repair.

- ▼表示的是泵装有电机冷却系统时的最低液位。显然，装有电机冷却系统时，最低液位可以降低很多，也就是说，可以排走更多的污水。
- 法兰尺寸表示的是泵的吐出法兰、出水管座法兰、弯管底座的吸入端法兰、硬管接头与管路连接端的法兰安装尺寸图中，凡口径 <400 的法兰都按GB4216.3或GB/T17241.6 Pn6标准，凡口径 ≥ 400 的都按GB4216.3或GB/T17241.6 PN10标准。

- ▼ means the lowest liquid level at the time with the motor cooling system. The lowest liquid level can be then lowered a lot, obviously, that means much more sewage can be discharged.
- The size of flange means the installation size of the vomiting flange of the pump, the flange of the water outlet pipe seat, the flange on the suck-in end of the elbow foundation and the flange on the connection between the hard-pipe joint and the pipeline. In the flange installation size chart, all the flange of an aperture < 400 are per the standard GB4216.3 or GB/T17241.6PN6 and all the flange of an aperture ≥ 400 are per the standard GB4216.3 or GB/T17241.6PN10.

附表1 导杆的规格及尺寸 Attached table 1 Norm and size of guide rod

泵排出口径 Discharge aperture of pump (mm)	导杆规格自来水管L无缝钢管 Guide rod norm Tap water tube L Seamless steel pipe	导杆参考长度=(池深-L) ± 15 mm 以下为 L尺寸 Referential length of guide rod = (Pond depth - L) ± 15 mm Below as the size of L
50	1"/34 \times 3.2	210
65		230
80		270
100		325
150	2"/60 \times 3.5	480
200		600
250		700
300		850
350	3"/89 \times 4	970
400		1130
500		1340
600		1570

附表2 胶管 Attached table 2 Rubber tube

泵排出口径 Discharge aperture of pump (mm)	配用的软管弯接头的规格 With the hose elbow joint specifications	配用胶管的内径 Matched with the inner diameter of the rubber hose (mm)
50	50	64
65	65	76
80	80	89
100	100	102
150	150	152

附表3 耦合装置出水管座的地脚螺栓

Attached table 3 Foot bolts on the water outlet pipe seat of the coupling

泵排出口径 Discharge aperture of pump (mm)	地脚螺栓 Foot bolt (GB799-88)		
	规格 Norm	数量 Quantity	预留孔参考尺寸长×宽×深 (mm) Referential size of reserved hole L×W×D (mm)
50	M16×300	4	80×80×350
65			
80			
100			
150			
200	M24×500		100×100×550
250			
300			
350	M30×630		130×130×700
400			
500	M36×630	6	150×150×700
600			

附表4 固定湿式安装和固定干式安装的地脚螺栓

Attached table 4 Foot bolts for fixed wet-type and dry-type installations

底座系列号 Serial No. of foundation	配用泵（以吸入口径分类） Fitted pump (classified with the suck-in aperture)	地脚螺栓 Foot bolt (GB799-88)		
		规格 Norm	数量 Quantity	预留孔参考尺寸长×宽×深 (mm) Referential size of reserved hole L×W×D (mm)
01	300 (75kW及以下 and below)	M30×630	4	130×130×700
03	200 (22 kW及以下 and below) 250 (22 kW及以下 and below) 300 (22kW及以下 and below)	M20×400		100×100×450
10	80、100、150 (30 kW及以下 and below)			
11	150 (37 kW及以上 and above) 250 (30 kW及以上 and above) 200 (30kW及以上 and above) 300 (30~55kW)	M30×630		130×130×700
12	350 (90 kW及以下 and below)	M36×630		150×150×700
13	400 (110 kW及以下 and below)			
14	350 (110~185kW)			
15	350(2000 kW及以上 and above) 400 (200 kW及以上 and above)			
16	400 (132~185kW)			
17	500 (132kW及以上 and above) 、600			

潜污泵专用电控柜 Submersible sewage pump specially used electric control cabinet

潜污泵内装有保护电机的各种保护装置，潜污泵的电控柜必须与这些保护装置配套，而且，潜污泵的电控柜还应配有进行液位控制的浮球开关。所以，潜

Inside of the submersible sewage pump various motor protectors are set, the electric control cabinet special for the said pump shall be matched with these protectors and also equipped with the float switch used for the level control, hence

污泵的电控柜是比较特殊的，专用性很强。我司的潜污泵专用电控柜与泵的保护装置是配套的，而且配有进行液位控制的浮球开关，还具有主回路短路、过载、缺相保护功能。15kW以上的电控柜还有自耦降压启动或电子软启动功能。主、备控制的电控柜正常工作时，主备泵交替方式有：手动交替、定时自动交替（连续运行场合）&自动交替（断续运行场合）\$故障时，凡主、备控制的电控柜都具备故障泵自动关闭，备用泵自动投入运行（备泵自投）的功能。如果用户使用我司的电控柜却断开了与泵保护装置的连接，或者用户自备的电控柜与泵的保护装置不配套，未设置主回路短路，过载、缺相保护功能甚至熔断丝也不装，则必然是出故障时不报警、不停泵，从而用户也不检修，最终的结果是烧毁电机。所以，购置泵时，应尽可能同时购置潜污泵专用电控柜。

以上只对潜污泵专用电控柜作了简略介绍，详细情况请阅我司电控柜样本或说明书。

the said cabinet is more special and powerful in the specificity. The said electric control cabinet made in this Co. can be completed with the protectors and are equipped with the float switches used for the level control, as well as the protective functions for the short-circuit, overload and lack-of-phase of the main loop. The electric control cabinet over 15kW also holds the function of auto-coupled pressure reducing start or electronic soft start. When the electric control cabinet with the main and spare control works, the alternative ways between the main and spare pumps include: handmade, timing automatic (for the continuous work) and automatic (for the intermittent work) and all the said electric control cabinets are set with such a function as that for the pump to stop automatically, in case of a failure, and for the spare one to be automatically put into work. It is necessary to order the submersible sewage specially used electric control cabinet at the same time to order the pump, this is because, if the user uses the electric control cabinet made in this Co. while does not connect the protectors or the electric control cabinet prepared by the user is not matched with the protectors and the short-circuit, overload and lack-of-phase protective functions, even a fuse, are not set with the main loop, such a result will occur without doubt as there are no alarm, no stop of the pump and no overhaul by the user and, at final, the motor will be made burnt out.

The abovementioned comes as the brief account of the submersible sewage pump specially used electric control cabinet only and, for the details, please refer to the catalog or the manual of it issued by this Co.

液位开关 Liquid level switch

下面提供三种液位开关的原理图 The principle diagrams of three kinds of the liquid level switch are provided below

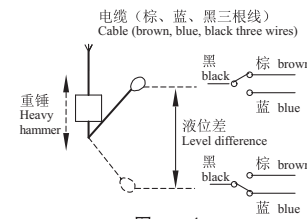


图 Fig. 1

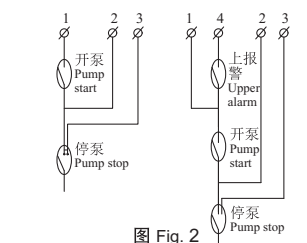


图 Fig. 2

安装：将电缆线固定在顶盖或水池壁上；

接线：黑色线、棕色线；

浮球浮起时，黑线和棕色线接通，启泵；

浮球下垂时，黑线和棕色线断开，停泵；

调整方法：

调整重锤在电缆上固定位置，即改变开泵和关泵的液位差。

Installation: fix the cable on the top cover or the water pond wall.

Wiring: black wire, brown wire

When the floating ball floats, both black and brown wires get connected, start the pump; When the floating ball becomes pendent, both black and brown wires are cut off, stop the pump;

Adjusting method:

Adjust the fixed position of the heavy hammer on the cable, e.g. change the level difference between pump start and stop.

安装：通过法兰悬装在水池顶盖上或支撑在水池底支座上。这种液位器出厂前，已按客户要求将起泵、停泵的位置设定好，现场不能调整。根据电气原理图和连线图（如图）接线。

Installation: In suspended installation on the top cover of the water pond, via the flange, or held onto the support on the bottom of the pond. Before ex-works, this level switch has been set with the pump start and stop positions as required by the user and so site adjustment can not be performed. Do wiring according to both electric principle diagram and connection drawing (as shown in the figure).

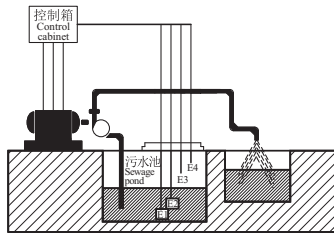


图 Fig. 3

在潜污泵样本和说明书上标出了最低液位。7.5kW 及以下的泵，只标了一个最低液位，即电机的定子部分被介质淹没一半的液位。11kW 及以上的泵标出了两种最低液位，即装电机冷却系统和未装电机冷却系统时的最低液位。未装电机冷却系统的最低液位是要保证电机的冷却；装电机冷却系统的最低液位则是为了保证启动前能排出泵内气体，并且对吸入口保持最小淹没深度，使得在运行时不吸入空气。

液位浮球开关是当电控柜置于自动档时使用的。

液位浮球开关的接线和设置：液位浮球开关的电缆中有黑、棕、蓝三根线芯。浮球浮起时，浮球内部接点将黑、棕两线芯接通，而将黑、蓝两线芯断开；浮球下垂时则相反，内部接点将黑、蓝两线芯接通，而将黑、棕两线芯断开。浮球在中间位置时内部开关为原始状态保持位置，只有到图示浮起和下垂的位置时内部开关才转换动作。排水场合，将黑、棕两线芯接入电控柜，蓝色线芯必须包扎绝缘；供水场合，将黑、蓝两线芯接入电控柜，棕色线芯必须包扎绝缘。若用一个浮球开关控制开泵、停泵两个液位，可调整重锤在电缆上的位置，也就确定了水泵开启和关闭的液位差，所以从原理上讲，一只浮球开关可实现一组上下液位启、停泵控制。但是，如果液位差较大，浮球摆臂长度随之增大，从重锤到浮球这段电缆的自重会影响液位控制的精度，所以，我司的潜污泵专用电控柜是这样设置浮球开关的：对主泵或大泵，用两只浮球开关分别控制启、停液位；对于小泵或超高水位增开的备泵，则用一个浮球开关来控制开泵、停泵两个液位。用户需要超出规定数量的浮球开关或不订购

这种液位器当有超高水位报警时采用四根电极。

当水位达 E3 时，给出信号开启排水泵；当水位低于 E2 时，关闭排水泵。不论水位因何原因达到 E4 时，超高水位报警铃响，同时启动备用泵投入运行。

This level switch will use four electric poles at the extra-high water level alarming.

When the water level reaches E3, it will send out a signal to start the drainage pump and then stop it, when the water level is below E2. When the water level reaches E4 because of whatever causes, the extra-level alarming bell will sound and, at the same time, the spare pump is started working.

The lowest liquid level is marked in the catalog and manual of the submersible sewage pump and, with the pumps of 7.5kW and below, only one lowest level is marked, e.g. that level in which half of the stator of the motor is submerged by the medium. Two lowest levels are marked with the pumps of 11kW and above, that is the lowest levels with and without the motor cooling system. The lowest level without the motor cooling system aims at the guaranteed cooling of the motor while that with the motor cooling system is to guarantee the air inside of the pump to be exhausted before start and keep the suck-in port in the minimum submerged depth so as not to suck air in during work.

The level floating ball switch is used when the electric control cabinet is set at the automatic shift.

Wiring and setting of the level floating ball switch: in the switch cable there are black, brown and blue three cores and, when the floating ball floats, the connection inside of the floating ball makes black and brown cores connected and black and blue ones cut off; which will be done reversely when the floating ball stays pendent, e.g. both black and blue cores connected and both black and brown ones cut off. The internal switch stays at the original state kept position when the floating ball stands on the center and will not change the motion unless at the floating and pendent positions shown in the figure. For water removal, get both black and brown cores connected into the electric control cabinet, with the blue one wrapped and insulated; for water supply, get both black and blue ones into the said cabinet, with the brown one wrapped and insulated. When to use one floating ball switch to control pump start and pump stop two levels, adjust the position of the heavy hammer on the cable so as to set up the level difference between the pump start and stop, hence in principle, one floating ball switch can carry it out for one group of upper and lower levels to control the pump start and stop. However, in case of a bigger level difference, the length of the swing-arm on the floating ball will be enlarged accordingly and the self weight of the cable in the section from the heavy hammer to the floating ball will affect the precision of the level control. Based on this, the floating ball switch with the submersible sewage pump specially used electric control cabinet made in this Co. is so designed as: for the primary or large pump, two floating ball switches are used to separately control the start and stop levels and, for the small pump or the spare one additionally started at the extra-high level, then one floating ball switch is used to control pump start and stop two levels. When the required quantity of

我司的潜污泵专用电控柜时，也可以向我们订购浮球开关。

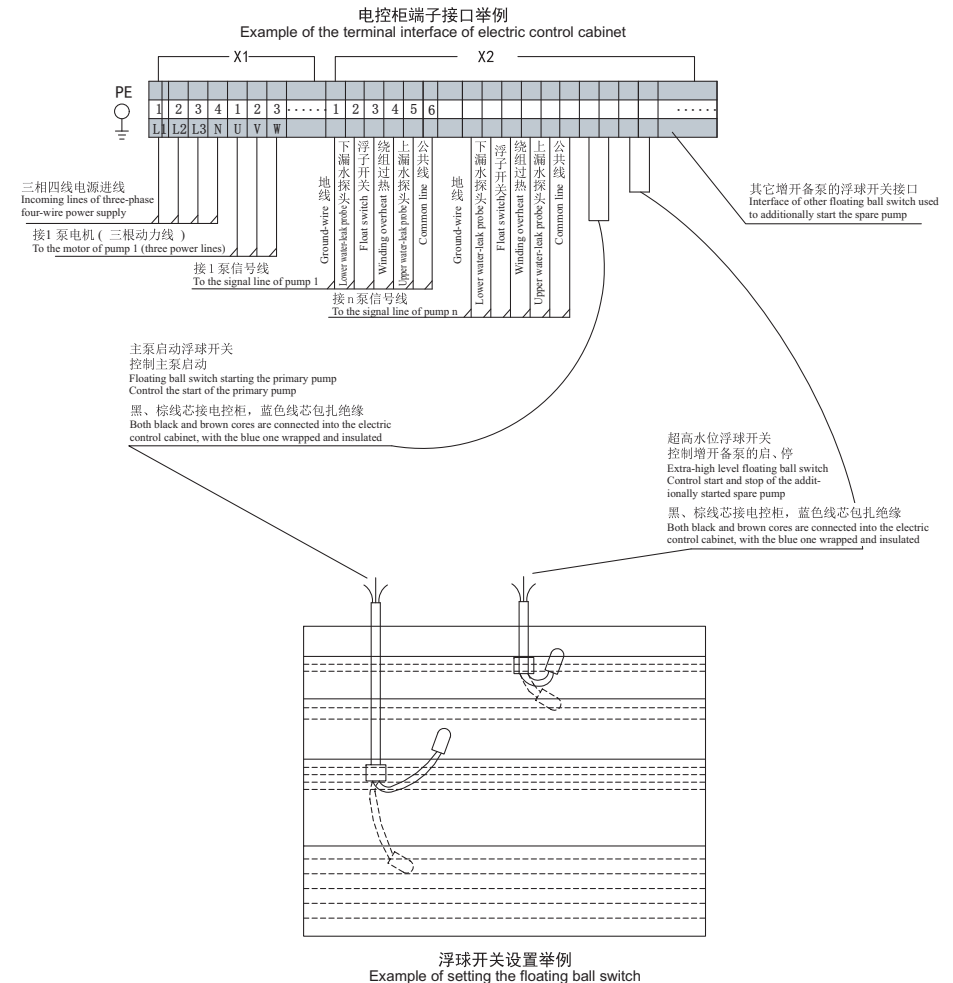
the said switch is over the stipulated or not to order the submersible sewage pump specially used electric control cabinet made in this Co., users can still order the floating ball switch.

潜污泵专用电控柜原理图

Schematic diagram of the submersible sewage pump specially used electric control cabinet

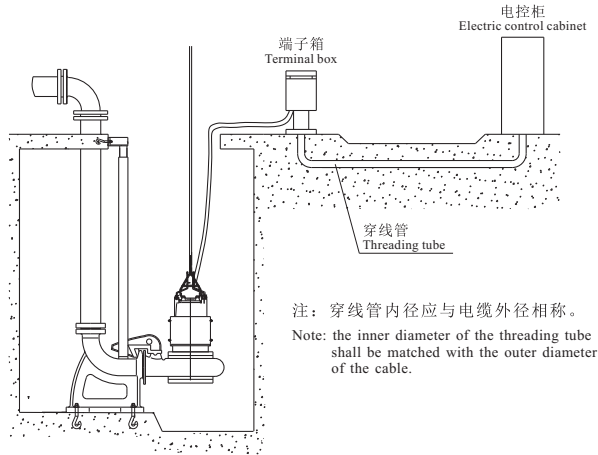
浮球开关的设置（排水场合）和电控柜端子接口的例子如下图：

Example of setting the floating ball switch (for water removal) and the terminal interface of electric control cabinet



潜污泵专用电控柜（液位）浮球开关=端子箱和穿线管

Floating ball switch of the submersible sewage pump specially used electric control cabinet (liquid level) = terminal box and threading tube



电控柜距泵房较远时，可设置端子箱。端子箱是选购件。

此图仅是示意性的，并不表示设计规范。泵站设计和安全等方面的事项应根据有关标准和规范处理。

需设置穿线管时（穿线管由用户自备）（应按电缆外径确定穿线管内径。如果从端子箱到电控柜使用我司的潜污泵专用电缆，可以从下表查出电缆外径尺寸。

电缆外径尺寸见下表 Outer diameter of cable

泵功率 Power of pump (kW)	电缆外径 O.D. of cable (mm)		泵功率 Power of pump (kW)	动力电缆外径 O.D. of power cable (mm)	控制电缆外径 O.D. of control cable (mm)
0.75~4	13.5		55(8P) 75	43	13.5
5.5~7.5	16.5		90	48	13.5
			110 132(4P、6P)	54	13.5
泵功率 Power of pump (kW)	动力电缆外径 O.D. of power cable (mm)	控制电缆外径 O.D. of control cable (mm)	泵功率 Power of pump (kW)	动力电缆外径 O.D. of power cable (mm)	控制电缆外径 O.D. of control cable (mm)
11、15(2P、4P)	16.5	13.5	132(8P、10P)	43(两根 two)	13.5
11、15(2P、4P)	16.5	13.5	160、200(8P) 185(4P、6P、8P)	48(两根 two)	13.5
18.5、22(2P、4P)	25	13.5	185(10P)200(10P) 220	54(两根 two)	13.5
30(4P、6P、8P) 37(4P、6P)	28	13.5	250(8P)280(8P)	57(两根 two)	13.5
37(8P) 45(4P、6P、8P) 55(4P、6P)	32	13.5	315 355	63(两根 two)	13.5

A terminal box, as an option, can be set, if the electric control cabinet is far away from the pump house.

The above figure is schematic only and does not express the standard of design. The pump station design and the safety etc. affairs shall be processed according to the related standards.

The inner diameter of the threading tube, when necessary to set it (prepared by the users), shall be set upon the outer diameter of the cable, which can be found out from the table below, provided that the cable used from the terminal box to the electric control cabinet is the one special for the submersible sewage pump made in this Co..

订货说明 Notices at order

为了使您选购的泵更加适用，热忱欢迎用户向本公司技术部门咨询技术问题。

订货时请注明：泵型号、过流件材质、安装方式、排出口径。

排出口径不大于150且电机功率不大于22kW的泵，可以移动式安装。

排出口径不大于600的泵都可以自动耦合式安装。

由于耦合装置中固定架的优良设计，导杆只须一般的自来水管或钢管。我们在样本中已经提供了用作导杆的自来水管或钢管的规格及长度计算方法，用户只需自行购置自来水管或钢管，切成需要和长度就可以使用了。所以耦合装置中不包括导杆。

7.5kW及以下的电机不配置电机冷却系统。

11kW及以上都可以配置电机冷却系统。

11kW及以上的泵，必须注明是否需要配置电机冷却系统。需要配置电机冷却系统的，必须说明是用被泵送介质冷却还是外接冷却水冷却。

选择固定式干式安装方式时，必须注明配置电机冷却系统，并说明是用被泵送介质冷却还是外接冷却水冷却。

一般情况，电机电缆7.5kW及以下按7m提供，7.5kW以上按10米提供。用户需要其它长度时，应在订货时说明。

成套供应件是按用户选定的安装方式配套供应。

选购件和备件是由用户另外订购的。

移动式硬管安装，每台泵成套供应一个硬管接头；移动式软管安装，每台泵成套供应一个软管接头。需要一个以上硬管接头或软管接头时，须另外订购。

In order to have your selected pump more applicable, warmly welcome you to inquiring any technical problems to the technical dept of this company.

Please note at order: the pump model, the material of the flow-passing parts, the installation mode and the discharge aperture.

The pumps of a discharge aperture not bigger than 150 can all be installed with the auto-coupled mode.

Because of the excellent design of the fixing stand in the coupling, the guide rod can just be made of tap water tube or steel pipe and is therefore not included in the coupling. Users are only required to cut the purchased tap water tube or steel pipe into the desired length, calculated according to the way of calculation provided in the catalog.

The motors of 7.5kW and below are not fitted with the motor cooling system.

11kW and above can all be equipped with the motor cooling system.

For the pumps of 11kW and above, it shall be noted whether the said system is needed or not and, if needed, it is cooled by the pumped medium or the external cooling water.

It shall be noted to equip the motor cooling system, when the fixed dry-type installation mode is selected, and whether it is cooled by the pumped medium or the external cooling water.

In general, the 7.5kW and below cable of the motor will be supplied per 7m and 7.5kW and above per 10m. Note it at order if other lengths are required.

The completed supplied parts are supplied in completion with the installation mode users have selected.

Both options and spare parts are ordered separately.

For the movable hard-pipe installation, one hard pipe joint is supplied in completion with each pump.

For the movable soft-pipe installation, one soft pipe joint is supplied in completion with each pump.

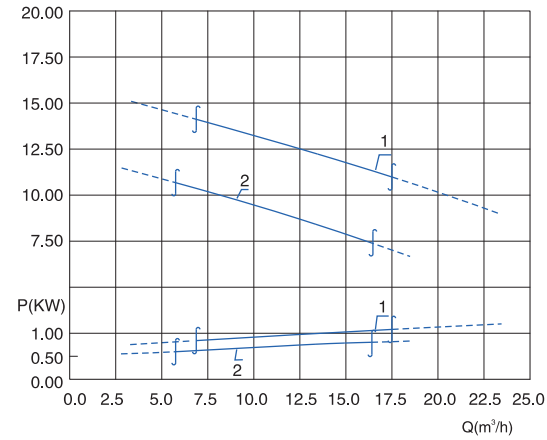
Separate order is necessary once more than one hard-pipe or soft-pipe joints are required.

供货一览表 List of supply

供货范围 Range of supply		安装方式 Installation mode					备注 Remark
		固定式湿式 Fixed wet type		移动式安装 Movable installation		固定干式安装 Fixed dry type	
		自动耦合式安装 Auto-coupled installation	底座式安装 11kW及以上 Foundation installation 11kW and above	排出口径不大于150且电机功率不大于22 Discharge aperture not bigger than 150 and the power of motor not larger than 22	软管安装 Soft pipe installation	硬管安装 Hard pipe installation	
Parts in completed supply 成套供应件	主泵 Primary pump	○	○	○	○	○	
	硬管接头 (1个/台) Hard pipe joint (one/each pump)				○		
	软管接头 (1个/台) Soft pipe joint (one/each pump)			○			
	自动耦合装置 Auto-coupling	○					
	底座 (1个/台) Foundation (one/each pump)		○	○	○	○	
Options 选购件	电控柜 Electric control cabinet	○	○	○	○	○	
	反法兰 Reversed flange	○	○	○	○	○	
	拦污栅 Trash rack	○	○	○	○	○	定制 Made to order
	启闭机 Hoist	○	○	○	○	○	定制 Made to order
	矩形闸门 Rectangle gate	○	○	○	○	○	定制 Made to order
	端子箱 Terminal box	○	○	○	○	○	
	E液位F浮球开关 E level F floating ball switch	○	○	○	○	○	
	闸E蝶阀 Butterfly valve of gate	○	○	○	○	○	
	止回阀 Check valve	○	○	○	○	○	
	地脚螺栓 Foot bolt	○	○			○	
	软管 Soft pipe			○			
Spares parts 备件	吊泵用吊链 Lifting chains for lifting pump	○	○	○	○	○	
	叶轮 Impeller	○	○	○	○	○	
	密封环 Seal ring	○	○	○	○	○	7.5kW以下无密封环
	轴承 Bearing	○	○	○	○	○	
	机械密封 Mechanical seal	○	○	○	○	○	
	O形密封圈 O-seal ring	○	○	○	○	○	

泵性能曲线图 Pump performance curve chart

H(m)

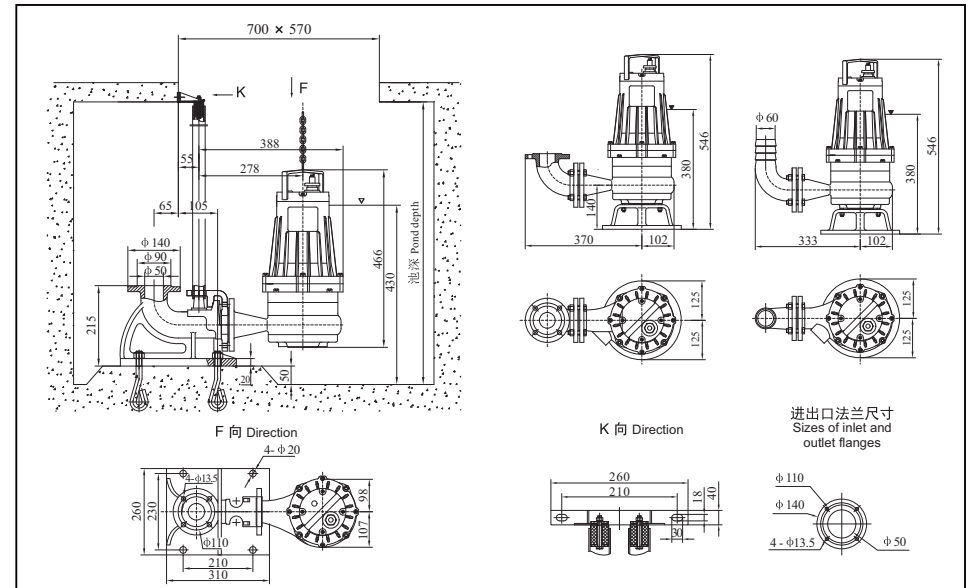


主要参数 main parameters

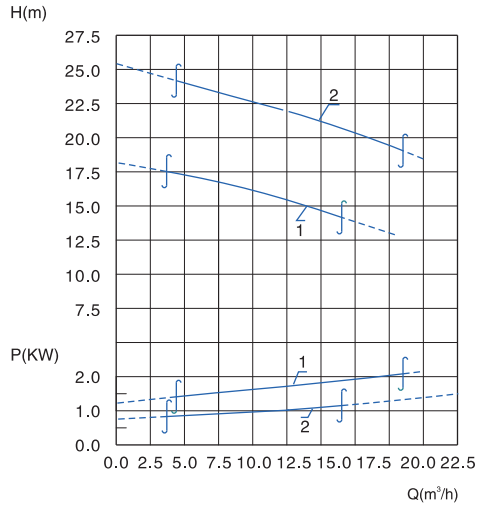
排出口径 Discharge aperture 50mm

序号 No.	泵型号 Model of pump	流量尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	50WQ15-12-1.1	长方形39×12 Rectangle	1.1	2825	32
2	50WQ15-8-0.75	长方形39×12 Rectangle	0.75	2825	30
额定电流 Rated current (A)		电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	2.6	0.84	77	2.2	
2	1.83	0.83	75	2.2	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

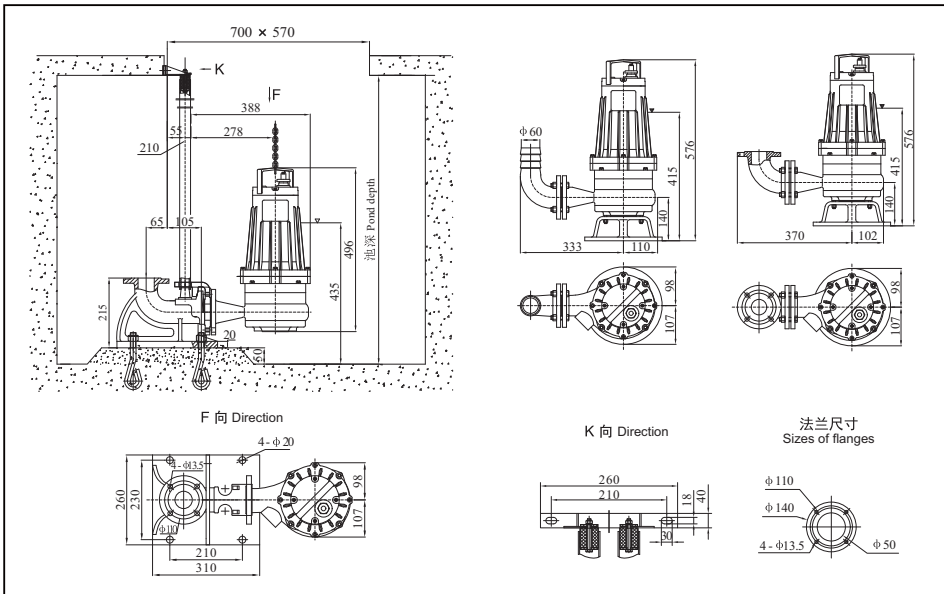


主要参数 main parameters

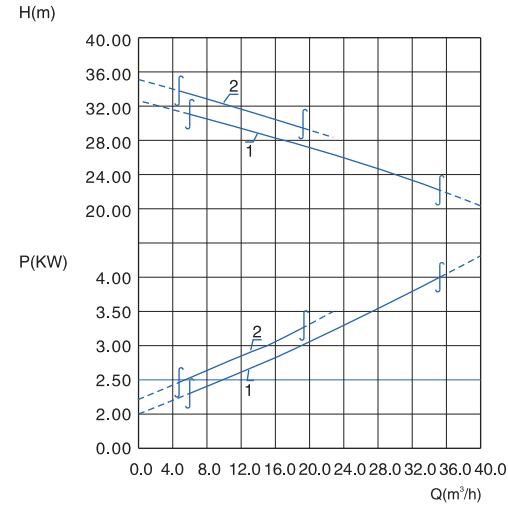
排出口径 Discharge aperture 50mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	50WQ15-16-2.2	椭圆形 Ellipse 36.3x 26.8	2.2	2840	45
2	50WQ15-16-1.5	椭圆形 Ellipse 36.3x 26.8	1.5	2840	40
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	4.9	0.85	81	2.2	
2	3.5	0.84	79	2.2	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

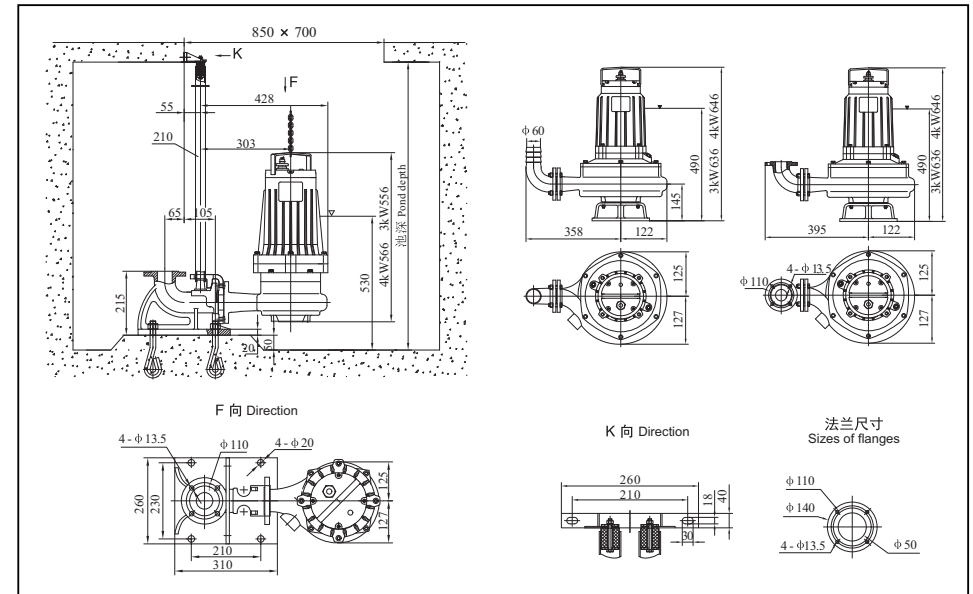


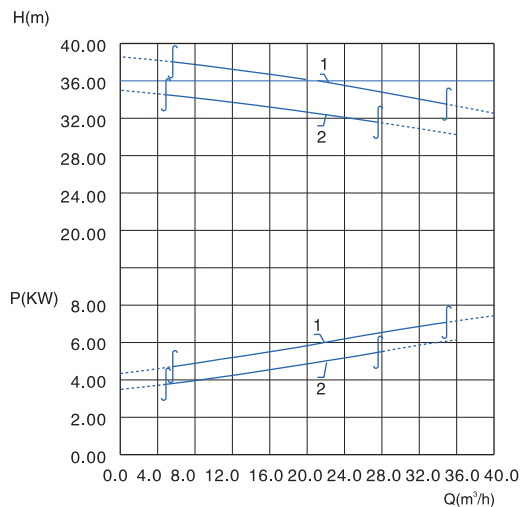
主要参数 main parameters

排出口径 Discharge aperture 50mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	50WQ25-25-4	椭圆形 Ellipse 39 x 27.6	4	2880	65
2	50WQ15-30-3	椭圆形 Ellipse 39 x 27.6	3	2880	55
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	8.1	0.88	85	2.2	
2	6.5	0.87	83	2.2	

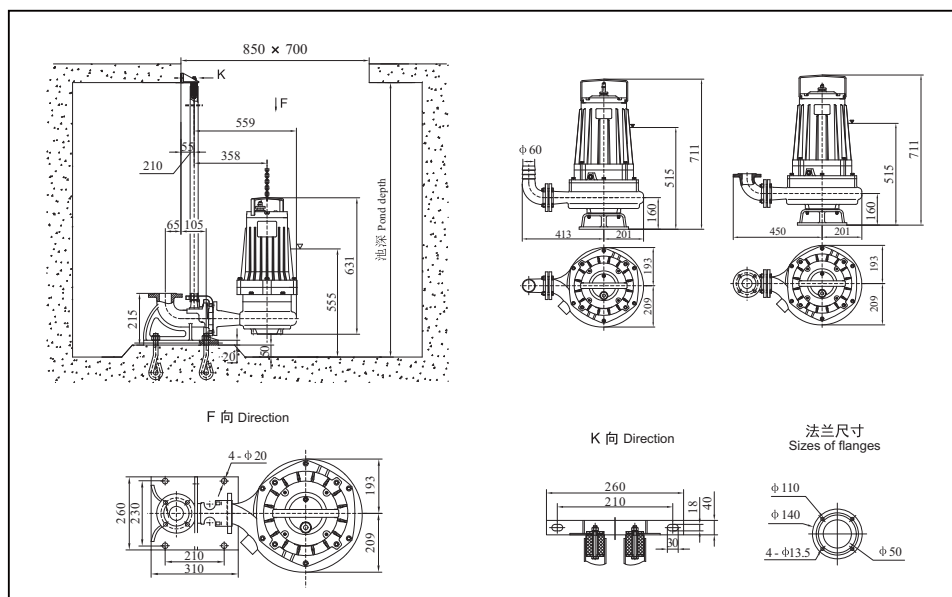
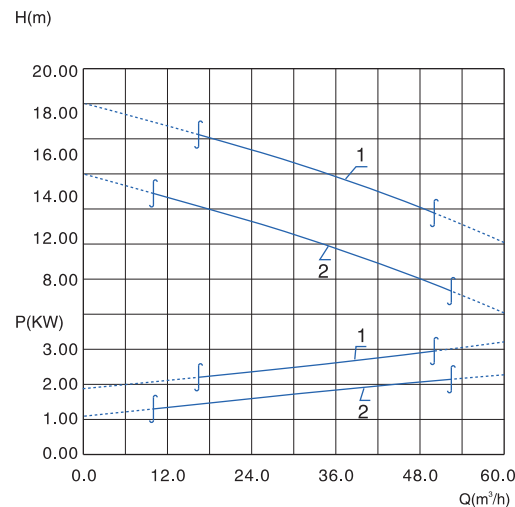
安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

主要参数 main parameters

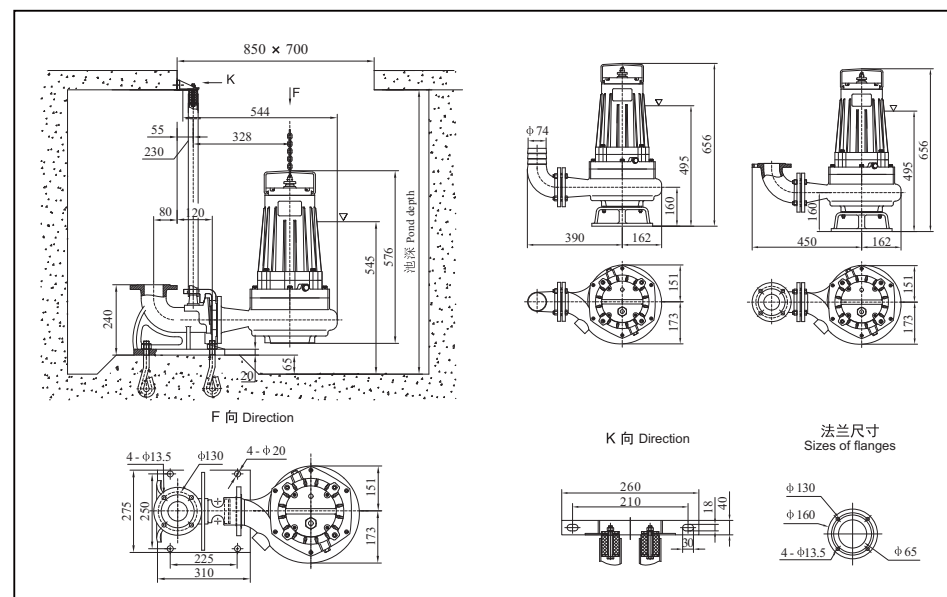
排出口径 Discharge aperture 50mm

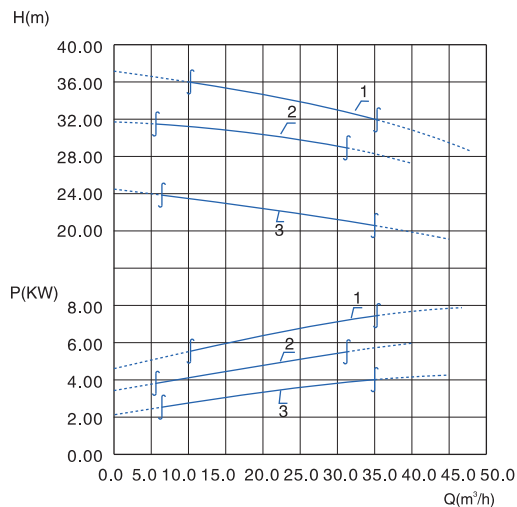
序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	50WQ25-36-7.5	椭圆形 Ellipse 59.1 x 34	7.5	1440	105
2	50WQ25-32-5.5	椭圆形 Ellipse 59.1 x 34	5.5	1440	90
		额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque/ Rated torque
1		15.6	0.84	87	2.3
2		11.8	0.83	85	2.3

安装尺寸 Installation dimensions

泵性能曲线图 Pump performance curve chart

主要参数 main parameters

排出口径 Discharge aperture 65mm

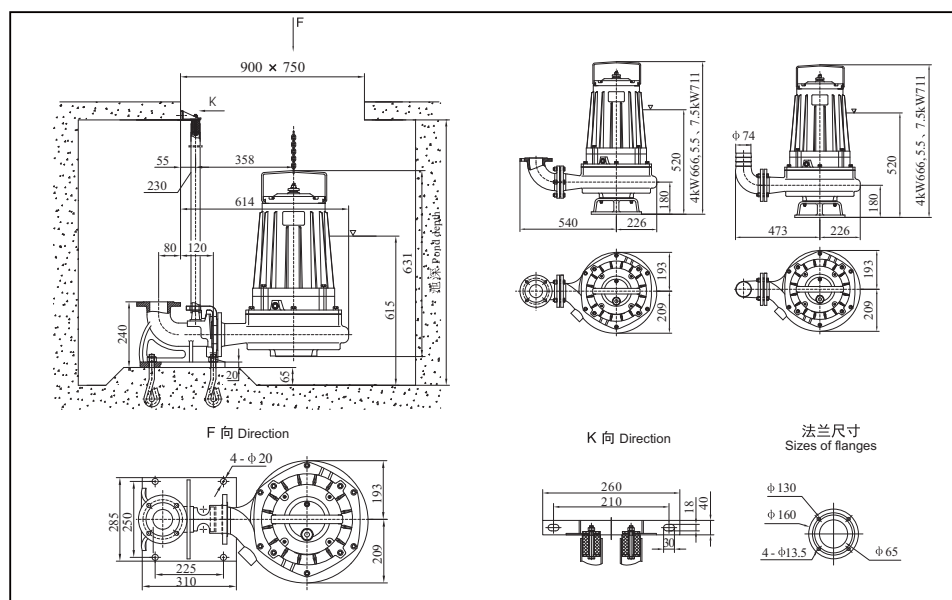
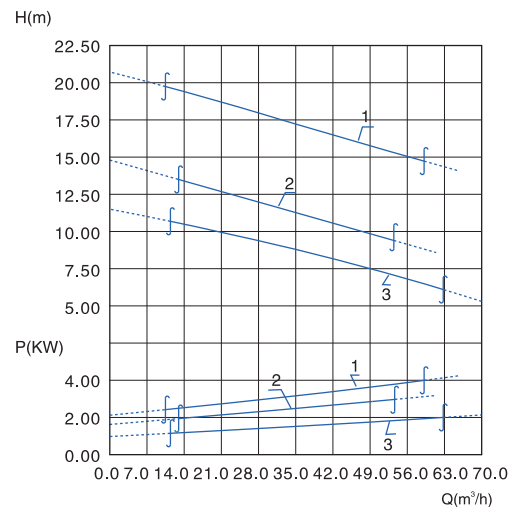
序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	65WQ30-15-3	椭圆形 Ellipse 54 x 37.4	3	1420	65
2	65WQ30-10-2.2	椭圆形 Ellipse 54 x 37.4	2.2	1420	55
		额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque/ Rated torque
1		6.8	0.82	82	2.3
2		5.2	0.81	80	2.3

安装尺寸 Installation dimensions


泵性能曲线图 Pump performance curve chart

主要参数 main parameters

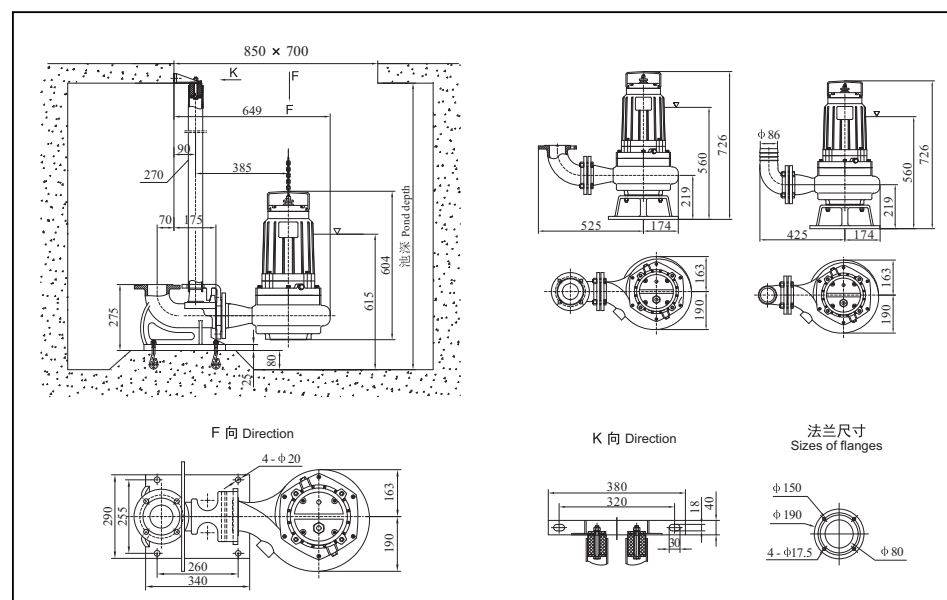
排出口径 Discharge aperture 65mm

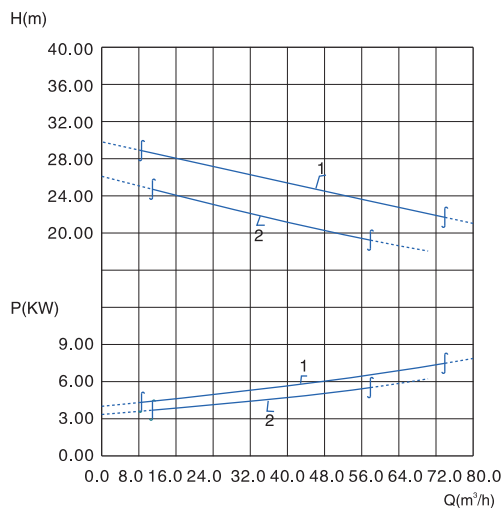
序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	65WQ30-35-7.5	椭圆形 Ellipse 59.1 x 34	7.5	1440	115
2	65WQ30-30-5.5	椭圆形 Ellipse 59.1 x 34	5.5	1440	100
3	65WQ30-22-4	椭圆形 Ellipse 59.1 x 34	4	1440	75
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩 / 额定转矩 Locked-rotor torque / Rated torque	
1	15.6	0.84	87	2.3	
2	11.8	0.83	85	2.3	
3	8.7	0.82	84	2.3	

安装尺寸 Installation dimensions

泵性能曲线图 Pump performance curve chart

主要参数 main parameters

排出口径 Discharge aperture 80mm

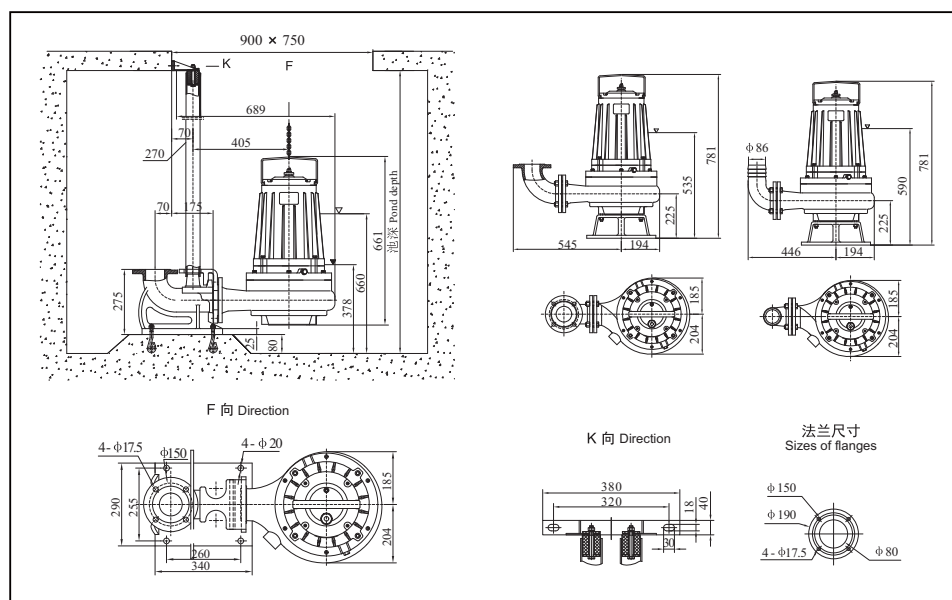
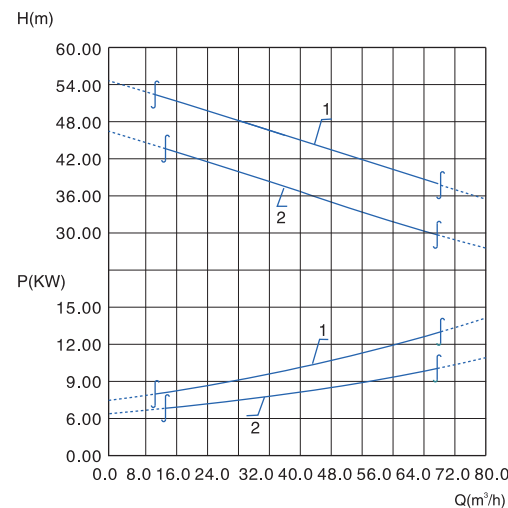
序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	80WQ50-15-4	长方形 71 x 36 Rectangle	4	1440	85
2	80WQ50-10-3	长方形 71 x 36 Rectangle	3	1420	75
3	80WQ50-8-2.2	长方形 71 x 36 Rectangle	2.2	1420	65
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩 / 额定转矩 Locked-rotor torque / Rated torque	
1	8.7	0.82	84	2.3	
2	6.8	0.82	82	2.3	
3	5.2	0.81	80	2.3	

安装尺寸 Installation dimensions


泵性能曲线图 Pump performance curve chart

主要参数 main parameters

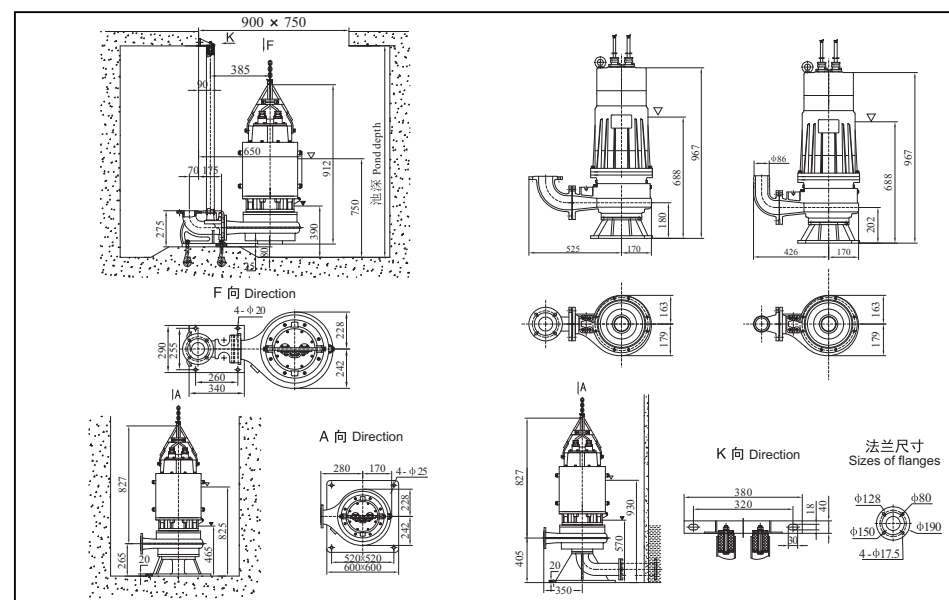
排出口径 Discharge aperture 80mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	80WQ50-25-7.5	长方形 66 × 56 Rectangle	7.5	1440	125
2	80WQ50-20-5.5	长方形 66 × 56 Rectangle	5.5	1440	110
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩 / 额定转矩 Locked-rotor torque /Rated torque	
1	15.6	0.84	87	2.3	
2	11.8	0.83	85	2.3	

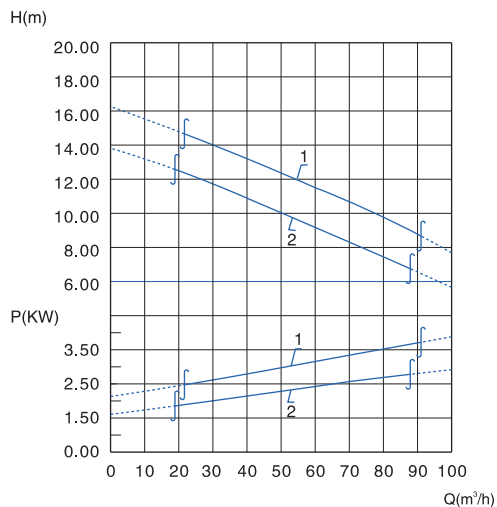
安装尺寸 Installation dimensions

泵性能曲线图 Pump performance curve chart

主要参数 main parameters

排出口径 Discharge aperture 80mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	80WQ50-40-15	长方形 38 × 48 Rectangle	15	2990	205
2	80WQ50-35-11	长方形 38 × 48 Rectangle	11	2990	180
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩 / 额定转矩 Locked-rotor torque /Rated torque	
1	28.8	0.89	89	2.2	
2	21.3	0.89	88	2.2	

安装尺寸 Installation dimensions


泵性能曲线图 Pump performance curve chart

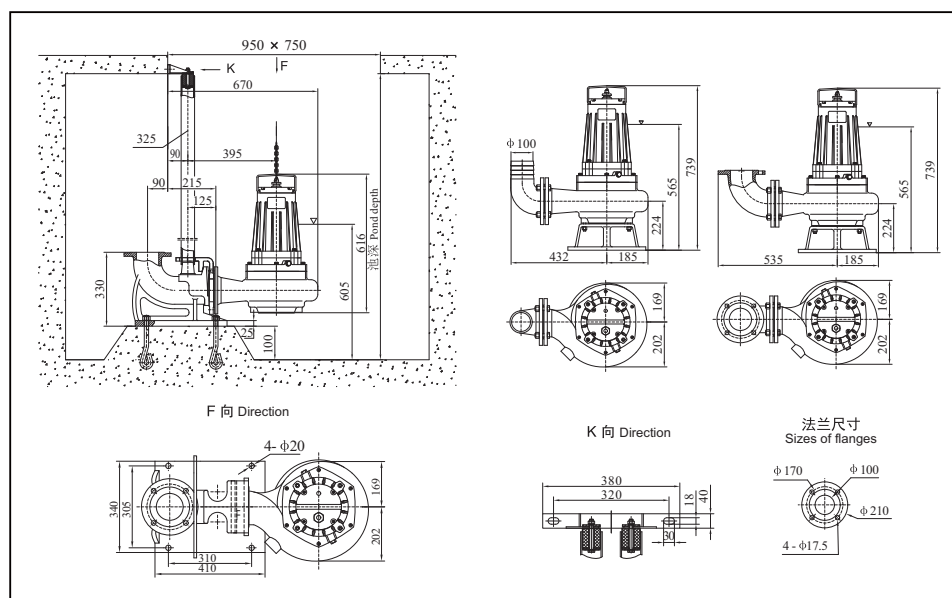


主要参数 main parameters

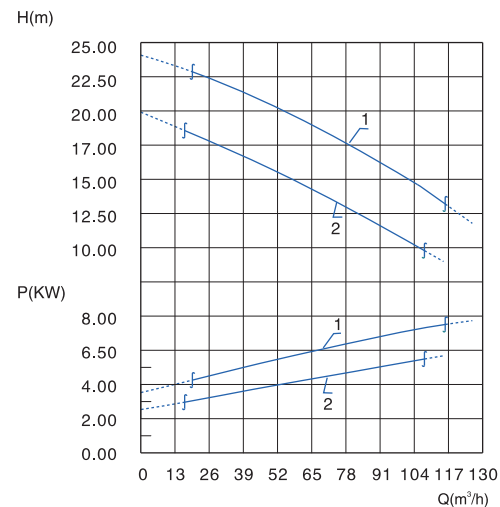
排出口径 Discharge aperture 100mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	100WQ80-10-4	长方形 71 × 36 Rectangle	4	1420	95
2	100WQ80-7-3	长方形 71 × 36 Rectangle	3	1440	85
		额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque
1		8.7	0.82	84	2.3
2		6.8	0.82	82	2.3

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

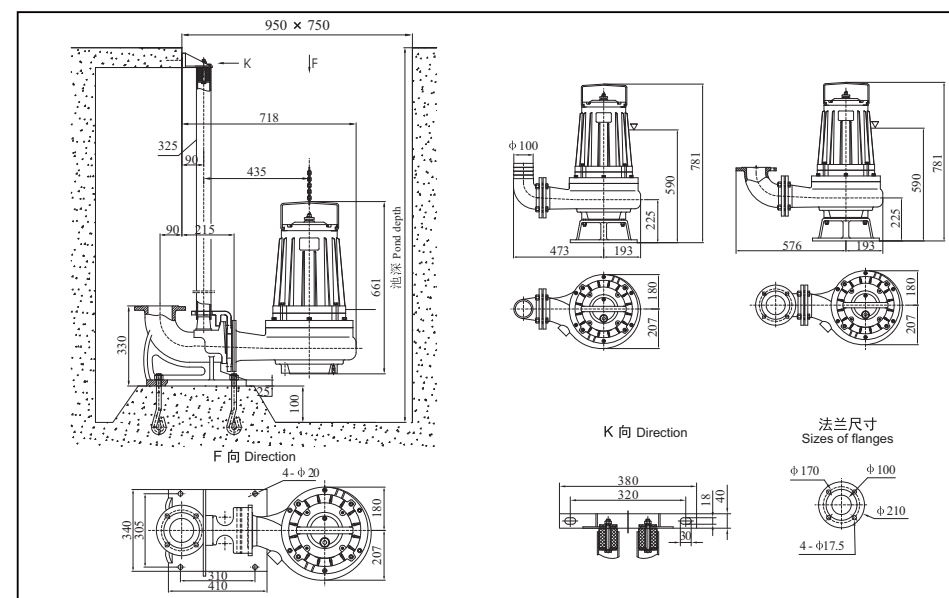


主要参数 main parameters

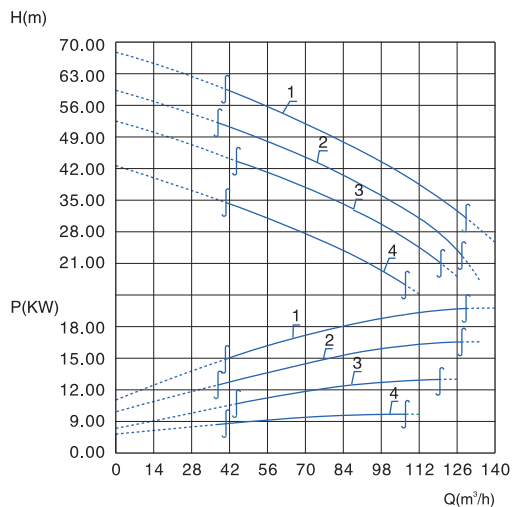
排出口径 Discharge aperture 100mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	100WQ80-18-7.5	长方形 72 × 56 Rectangle	7.5	1440	135
2	100WQ80-13-5.5	长方形 72 × 56 Rectangle	5.5	1440	120
		额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque
1		15.6	0.84	87	2.3
2		11.8	0.83	85	2.3

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

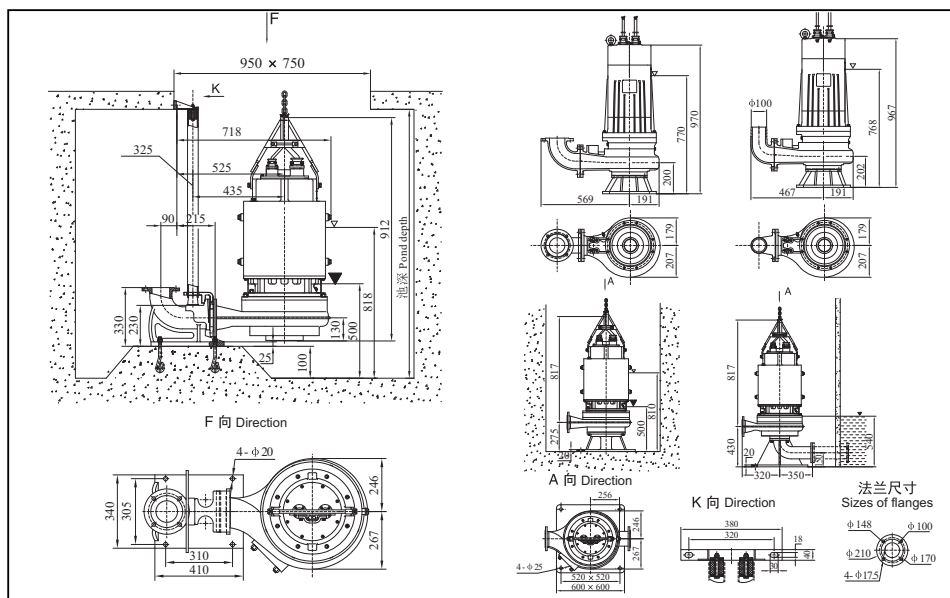


主要参数 main parameters

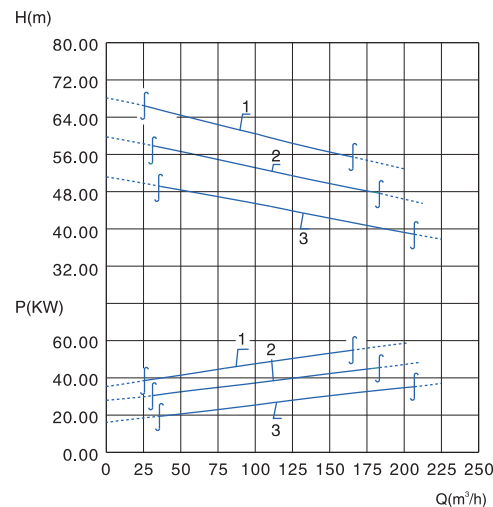
排出口径 Discharge aperture 100mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	100WQ80-40-22	椭圆形 Ellipse 54 x 31.2	22	2900	290
2	100WQ80-36-18.5	椭圆形 Ellipse 54 x 31.2	18.5	2900	280
3	100WQ80-32-15	椭圆形 Ellipse 54 x 31.2	15	2900	215
4	100WQ80-24-11	椭圆形 Ellipse 54 x 31.2	11	2900	190
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩 Locked-rotor torque /Rated torque	
1	41.3	0.90	90	2	
2	34.7	0.90	90	2.2	
3	28.8	0.89	89	2.2	
4	21.3	0.89	88	2.2	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

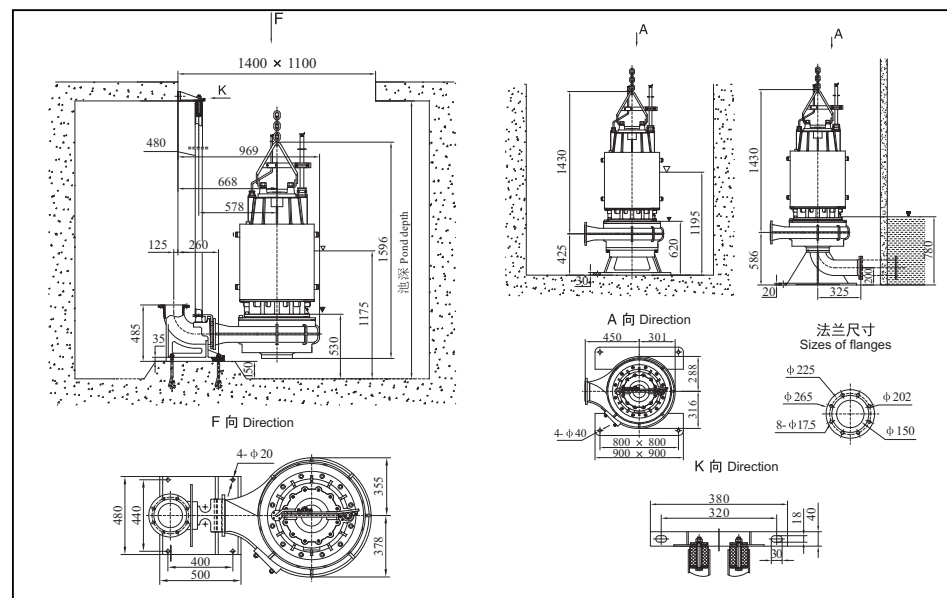


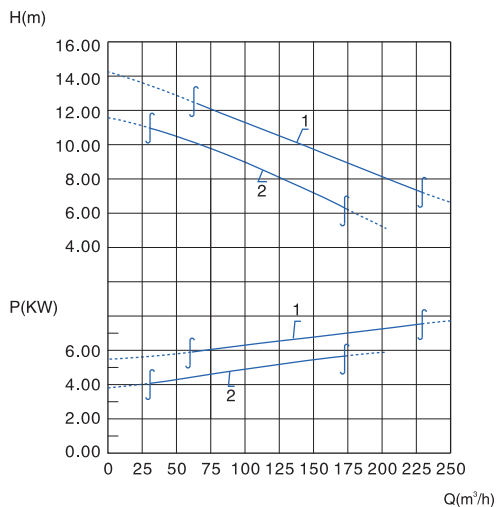
主要参数 main parameters

排出口径 Discharge aperture 150mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	150WQ100-60-55	长方形 87 × 78 Rectangle	55	1470	850
2	150WQ150-50-45	长方形 87 × 78 Rectangle	45	1470	750
3	150WQ150-45-37	长方形 87 × 78 Rectangle	37	1470	650
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	103.3	0.87	93.0	2.2	
2	84.7	0.87	92.8	2.2	
3	69.9	0.87	92.5	2.2	

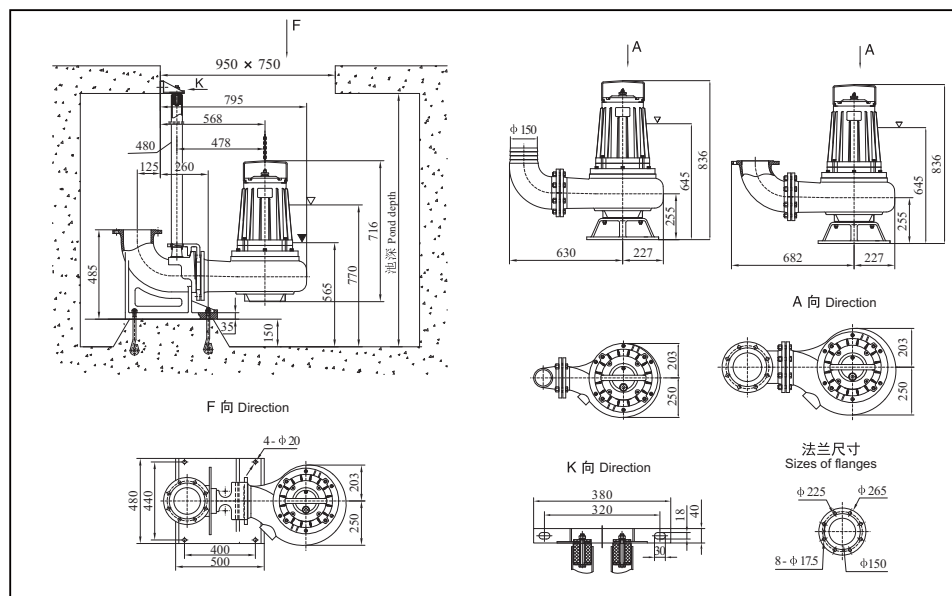
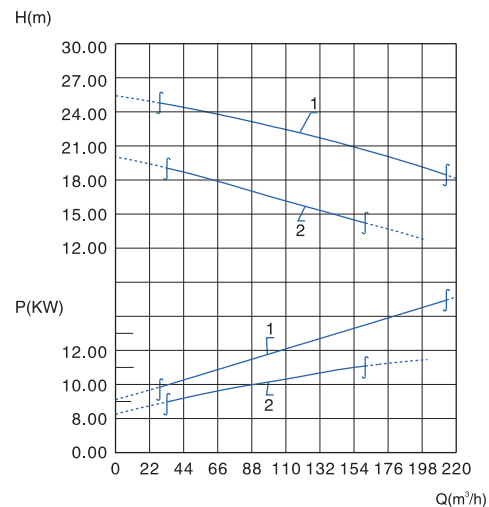
安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

主要参数 main parameters

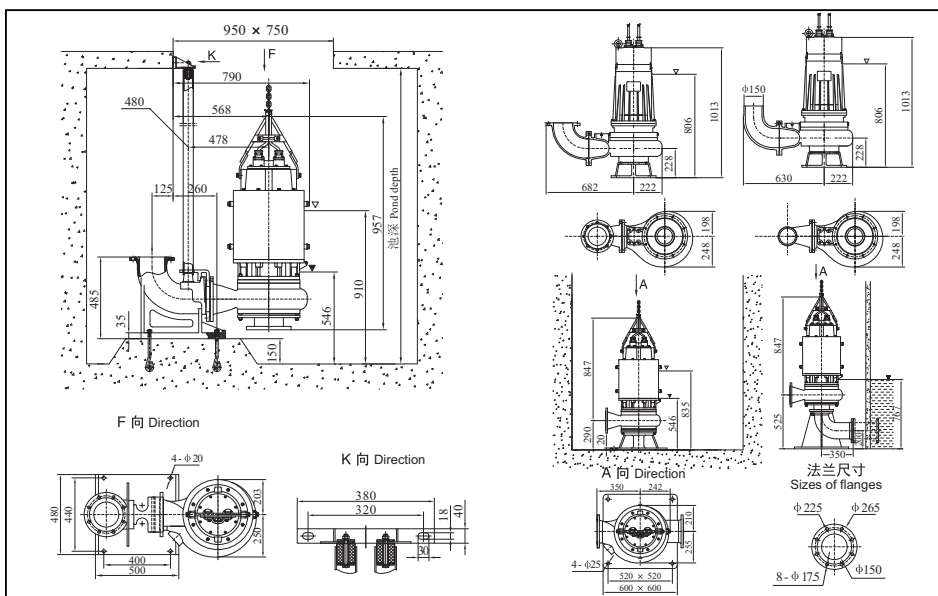
排出口径 Discharge aperture 150mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	150WQ150-10-7.5	椭圆形 Ellipse 88.5 × 91.8	7.5	1440	150
2	150WQ150-7-5.5	椭圆形 Ellipse 88.5 × 91.8	5.5	1440	130
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	15.6	0.84	87	2.3	
2	11.8	0.83	85	2.3	

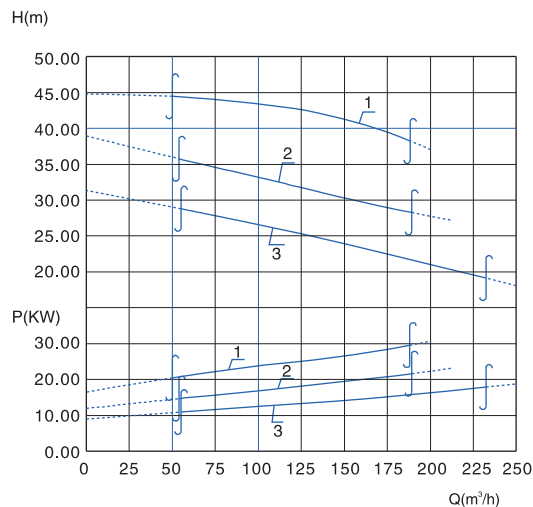
安装尺寸 Installation dimensions

泵性能曲线图 Pump performance curve chart

主要参数 main parameters

排出口径 Discharge aperture 150mm

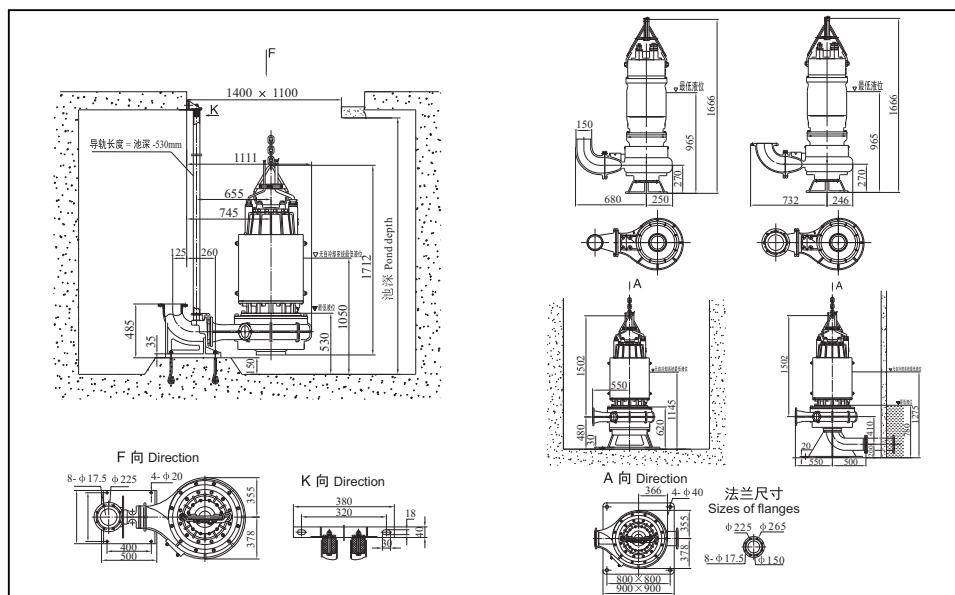
序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	150WQ150-20-15	长方形 72 × 74 Rectangle	15	1460	240
2	150WQ150-15-11	长方形 72 × 74 Rectangle	11	1460	215
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	30.1	0.85	89	2.2	
2	22.6	0.84	88	2.2	

安装尺寸 Installation dimensions


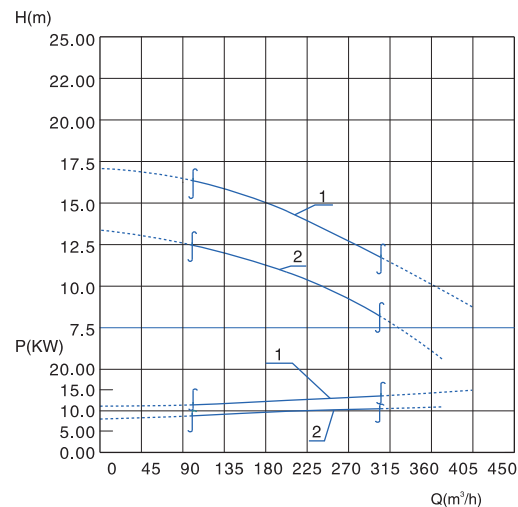
泵性能曲线图 Pump performance curve chart



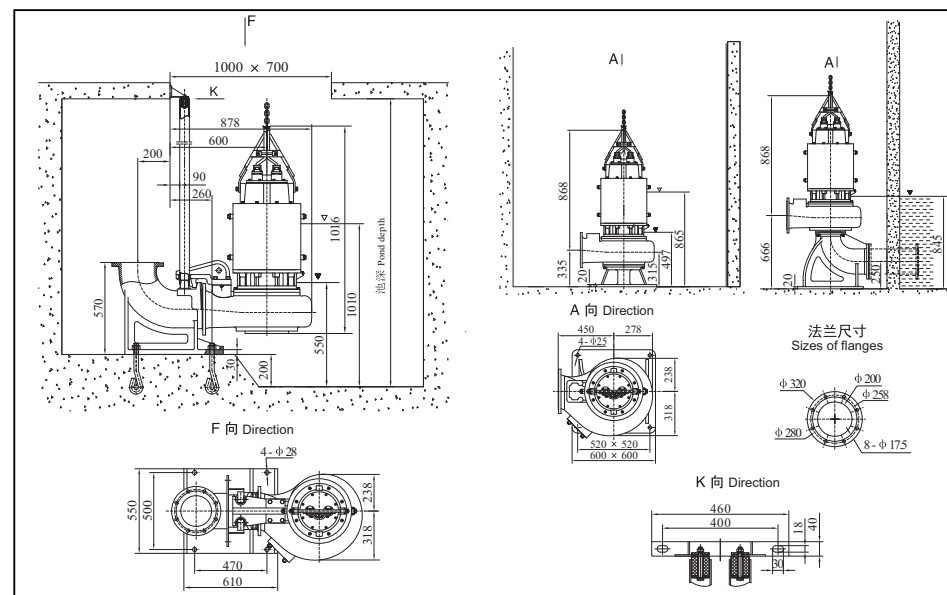
安装尺寸 Installation dimensions



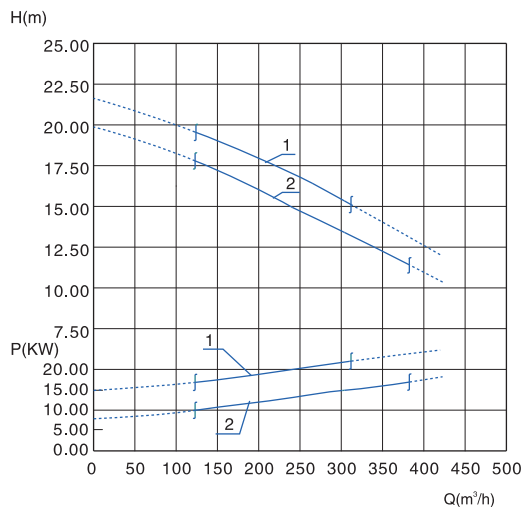
泵性能曲线图 Pump performance curve chart



安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

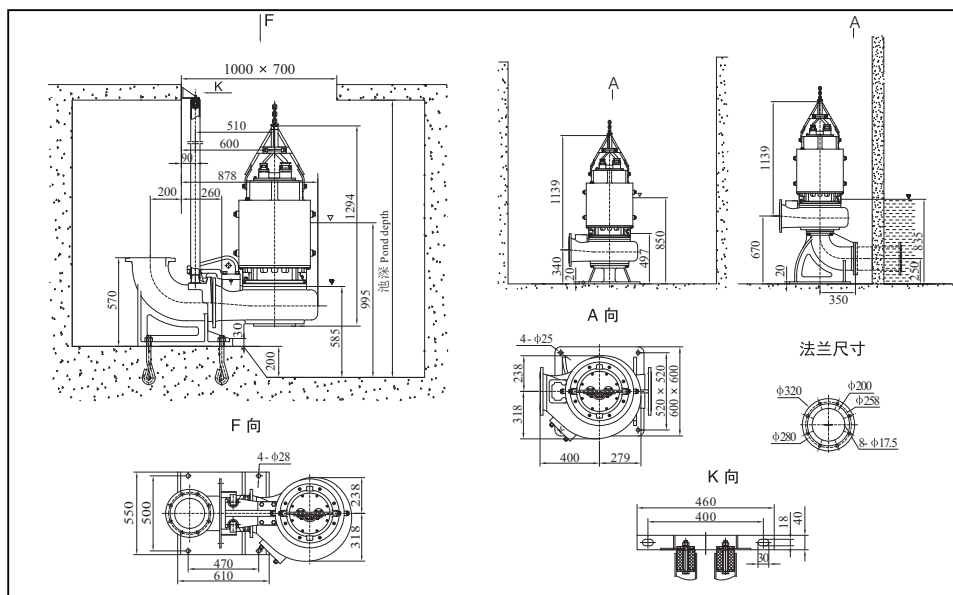


主要参数 main parameters

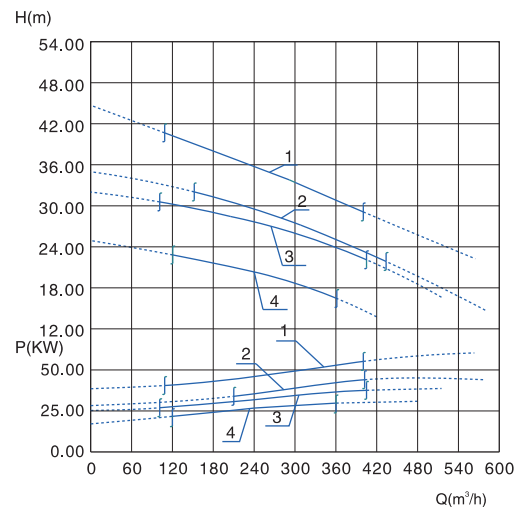
排出口径 Discharge aperture 200mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	200WQ300-15-22	椭圆形 Ellipse 1093×1242	22	1470	380
2	200WQ300-13-18.5	椭圆形 Ellipse 1093×1242	18.5	1470	370
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	42.7	0.86	91.0	2.2	
2	36.1	0.86	90.5	2.2	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

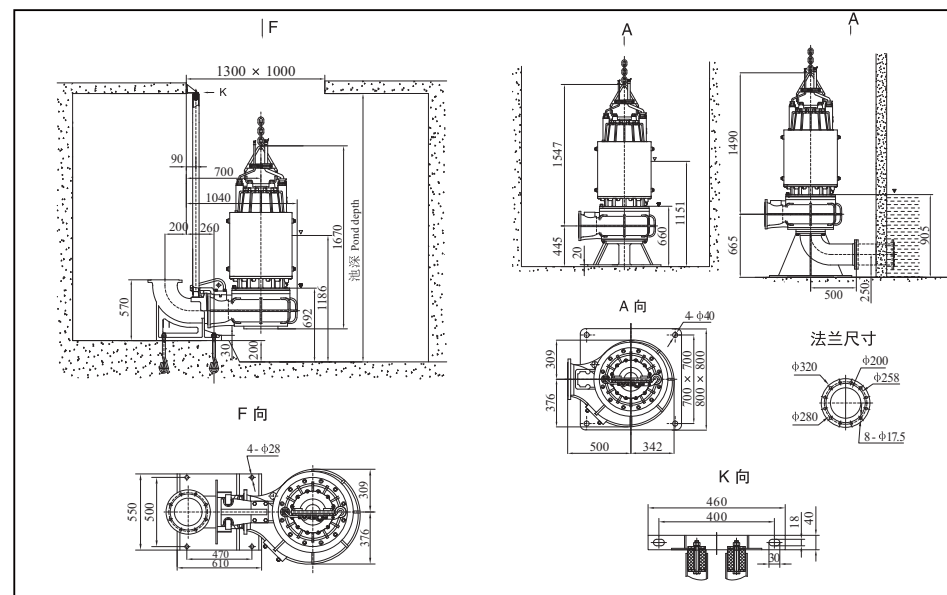


主要参数 main parameters

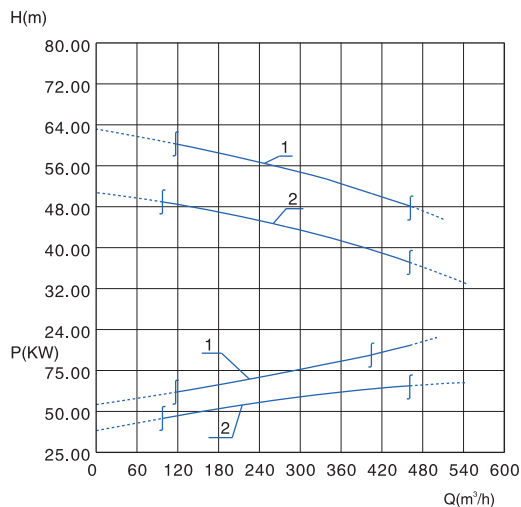
排出口径 Discharge aperture 200mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	200WQ400-34-55	椭圆形 Ellipse 112 × 131	55	1480	950
2	200WQ400-27-45	椭圆形 Ellipse 112 × 131	45	1480	850
3	200WQ300-25-37	椭圆形 Ellipse 112 × 131	37	980	720
4	200WQ300-20-30	椭圆形 Ellipse 112 × 131	30	980	650
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	增转矩 / 额定转矩 Locked rotor torque / Rated torque	
1	103	0.87	93	2.1	
2	85	0.87	92.8	2.1	
3	71	0.86	92	2.2	
4	59	0.84	91.5	2.2	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

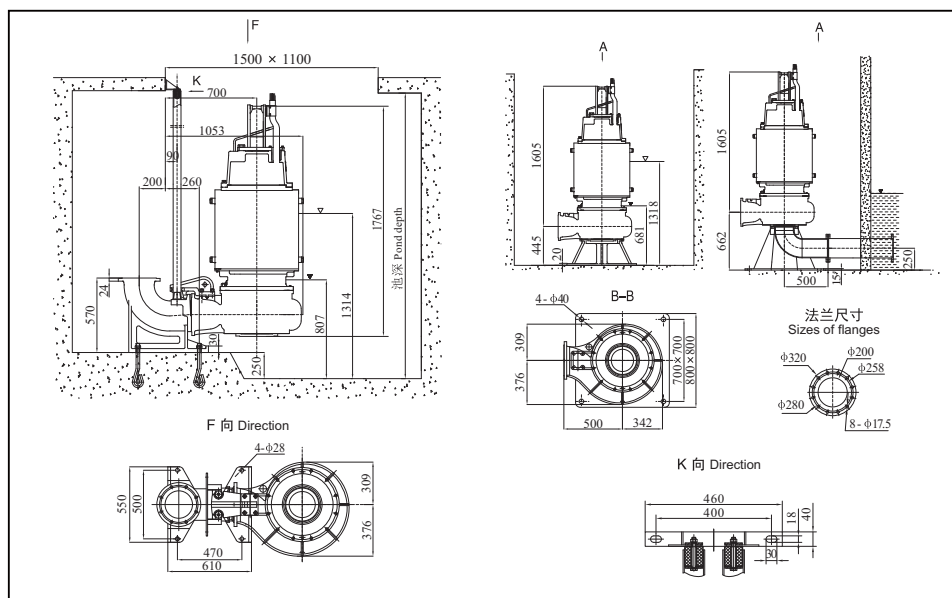


主要参数 main parameters

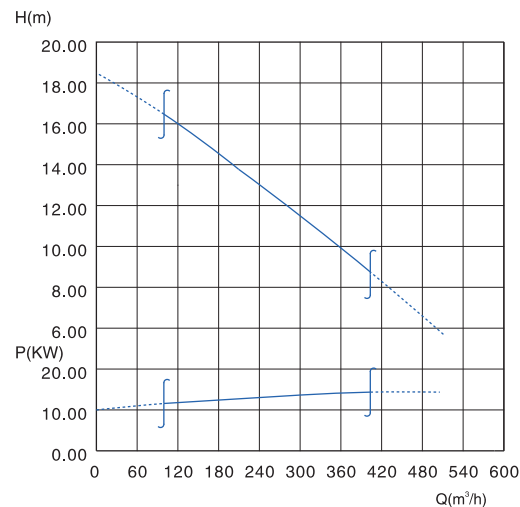
排出口径 Discharge aperture 200mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	200WQ400-48-90	椭圆形 Ellipse 105.6 × 108.1	90	1480	1420
2	200WQ400-40-75	椭圆形 Ellipse 105.6 × 108.1	75	1480	1300
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	167	0.87	94.2	2.2	
2	140	0.87	93.8	2.2	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

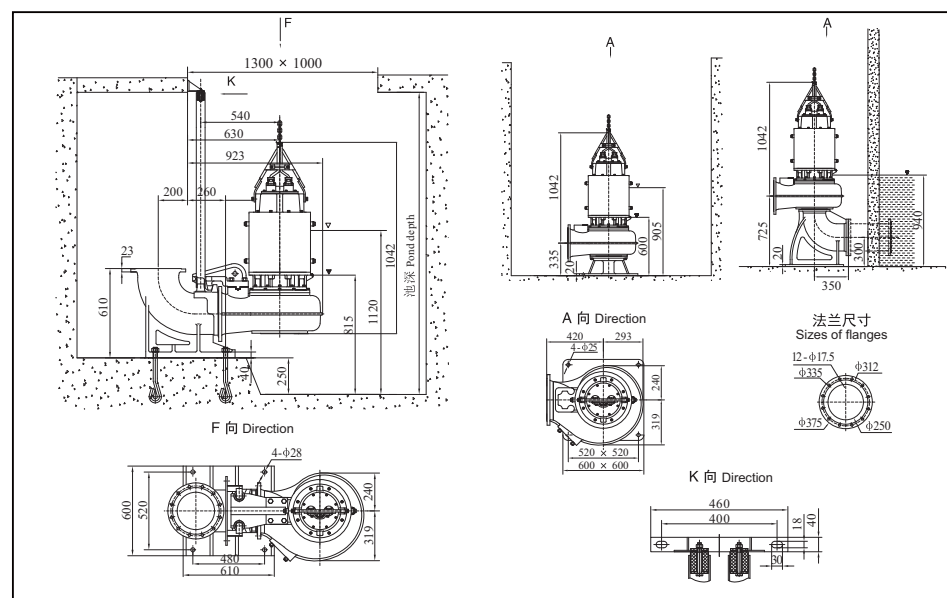


主要参数 main parameters

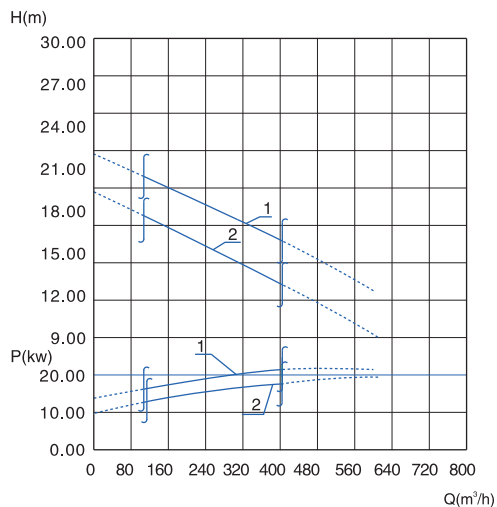
排出口径 Discharge aperture 250mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	250WQ400-7-15	椭圆形 Ellipse 87.2 × 107	15	1460	450
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	30.1	0.85	89.0	2.2	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

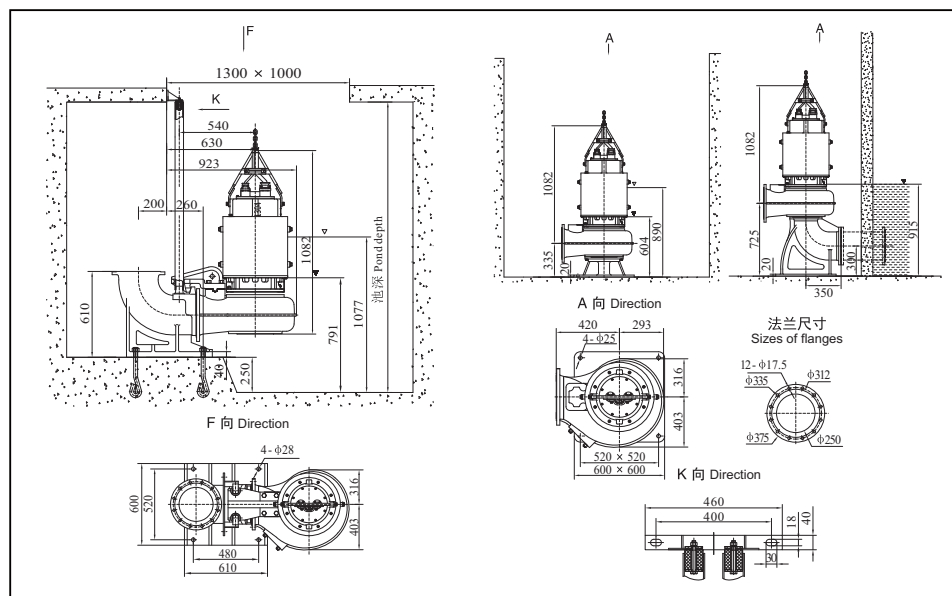


主要参数 main parameters

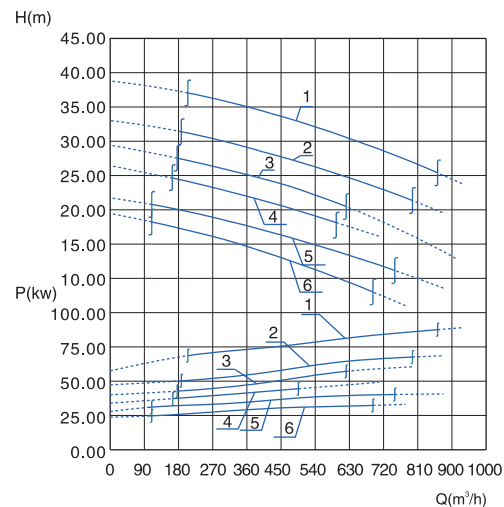
排出口径 Discharge aperture 250mm

序号 No.	泵型号 Model of pump	流量尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	250WQ400-13-22	椭圆形 Ellipse 109.3 × 124.2	22	1470	580
2	250WQ400-10-18.5	椭圆形 Ellipse 109.3 × 124.2	18.5	1470	550
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque/ Rated torque	
1	42.7	0.86	91.0	2.2	
2	36.1	0.86	90.5	2.2	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

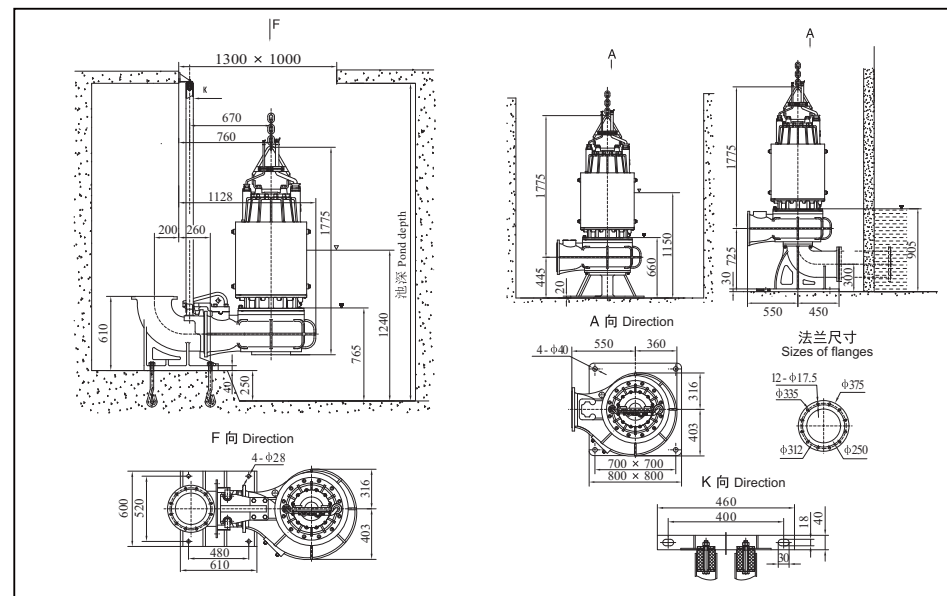


主要参数 main parameters

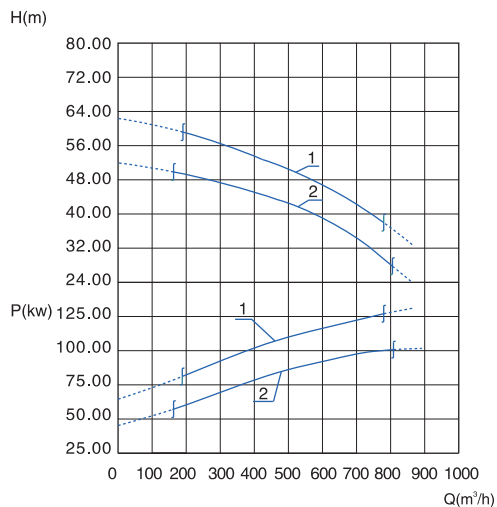
排出口径 Discharge aperture 250mm

序号 No.	泵型号 Model of pump	流量尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	250WQ600-34-90	椭圆形 122.3 × 132.7	90	1480	1580
2	250WQ600-28-75	椭圆形 122.3 × 132.7	75	1480	1480
3	250WQ500-25-55	椭圆形 122.3 × 132.7	55	980	1115
4	250WQ500-20-45	椭圆形 122.3 × 132.7	45	980	1050
5	250WQ500-16-37	椭圆形 122.3 × 132.7	37	980	780
6	250WQ500-10-30	椭圆形 122.3 × 132.7	30	980	700
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque/ Rated torque	
1	167	0.87	94.2	2.2	
2	140	0.87	93.8	2.2	
3	105	0.86	92.8	2.1	
4	86	0.86	92.5	2.1	
5	71	0.86	92	2.1	
6	59	0.84	91.5	2.0	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

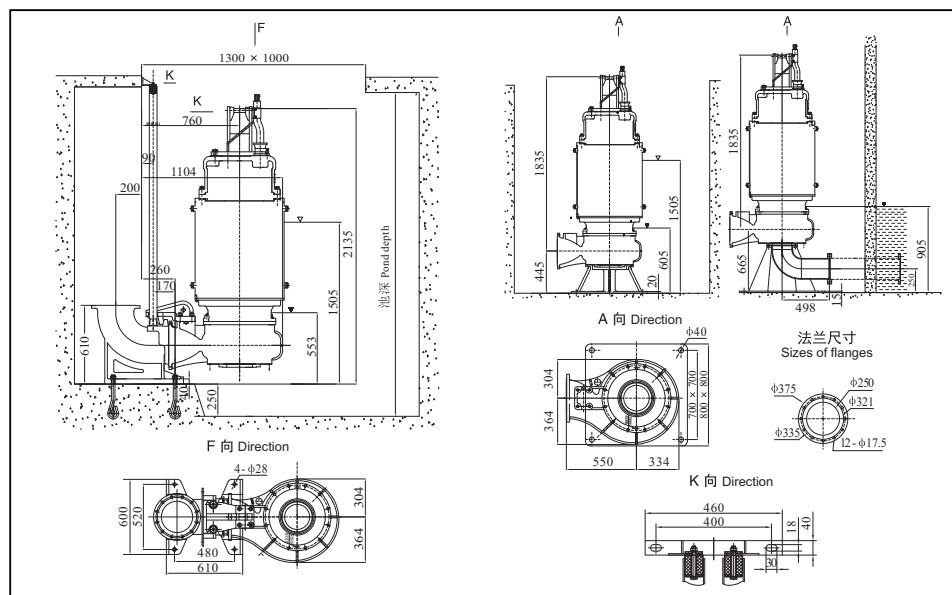


主要参数 main parameters

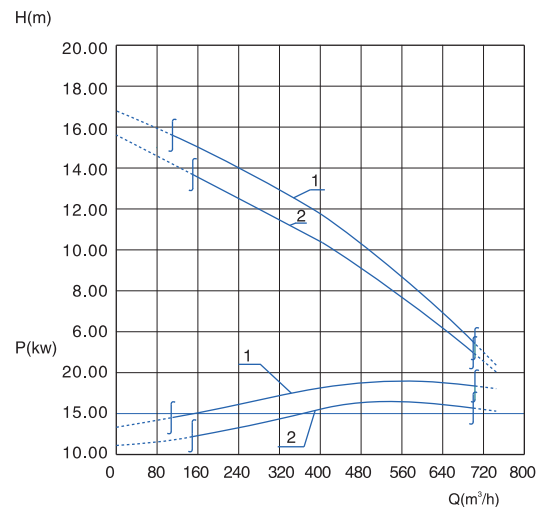
排出口径 Discharge aperture 250mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	250WQ600-48-132	椭圆形 Ellipse 105.6 × 108.1	132	1480	1710
2	250WQ600-38-110	椭圆形 Ellipse 105.6 × 108.1	110	1480	1650
		额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque
1		240	0.88	94.8	2.1
2		201	0.88	94.5	2.1

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

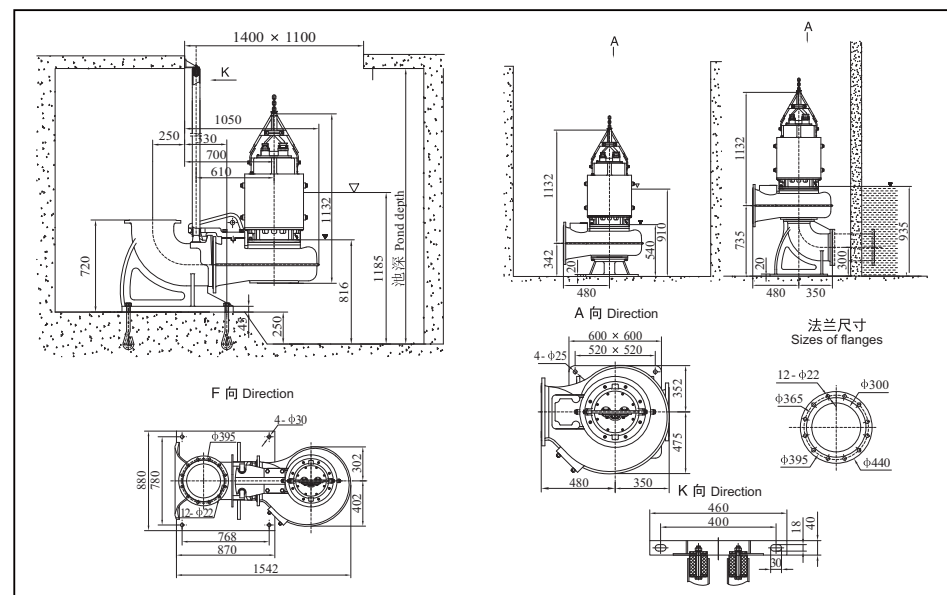


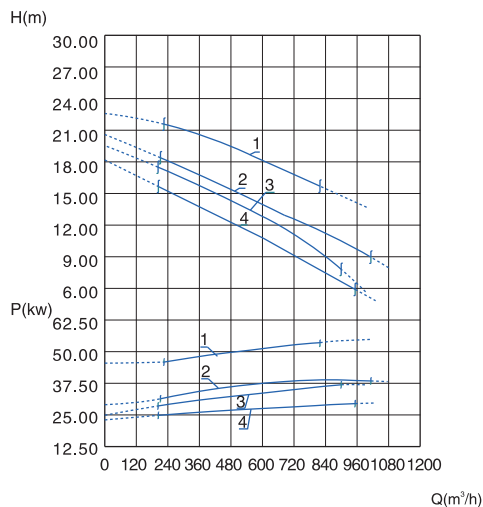
主要参数 main parameters

排出口径 Discharge aperture 300mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	300WQ600-7-22	椭圆形 Ellipse 109.3 × 124.2	22	1470	660
2	300WQ600-6-18.5	椭圆形 Ellipse 109.3 × 124.2	18.5	1470	650
		额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque
1		42.7	0.86	91	2.2
2		36.1	0.86	90.5	2.2

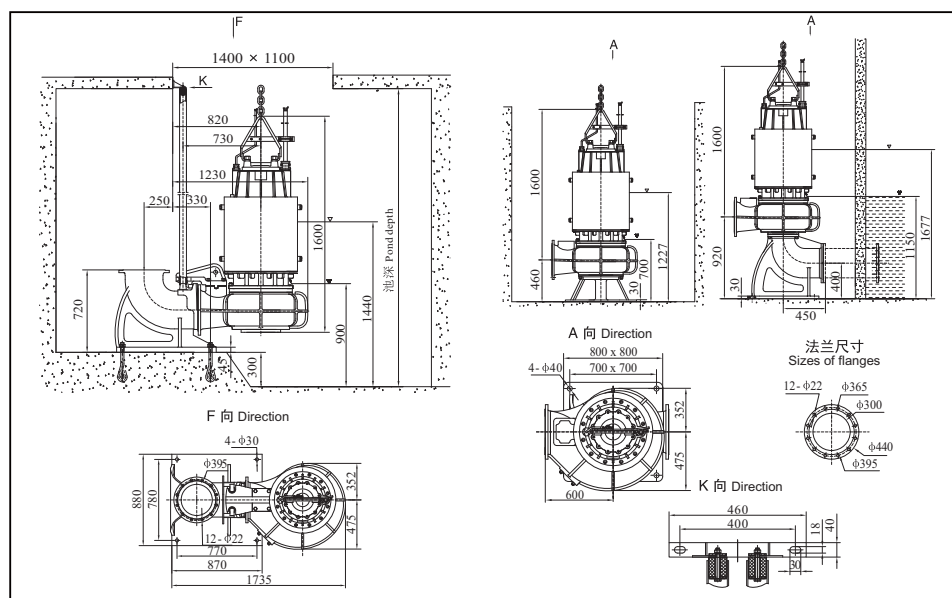
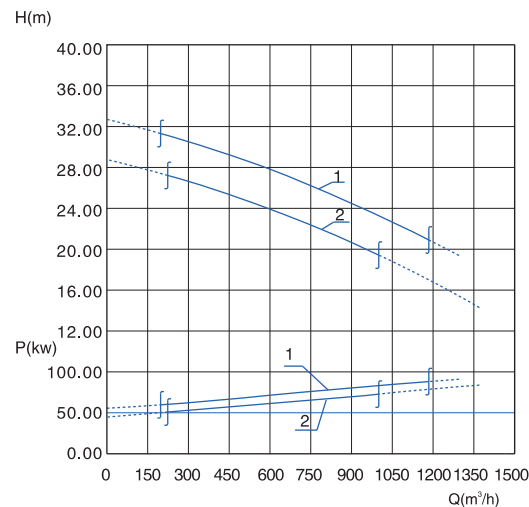
安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

主要参数 main parameters

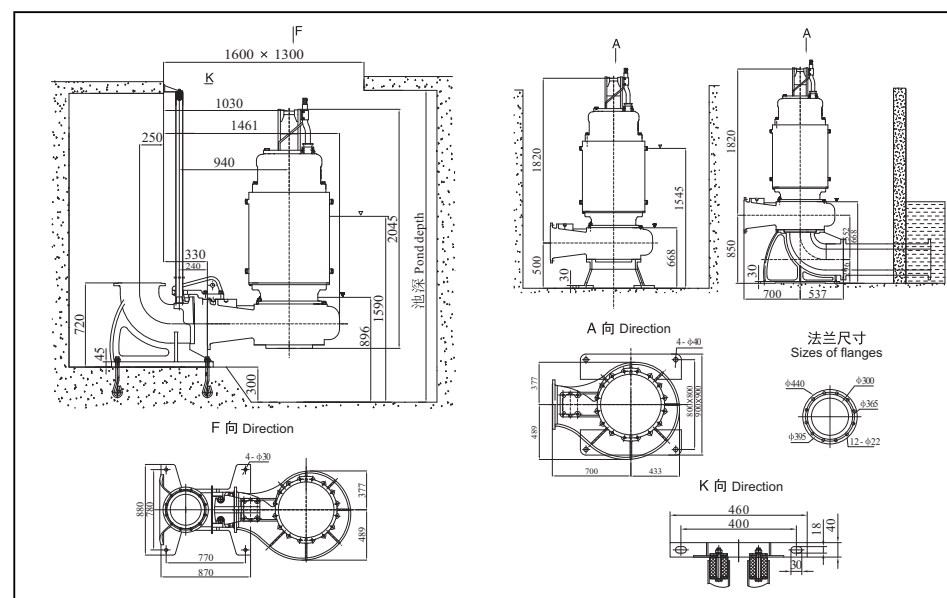
排出口径 Discharge aperture 300mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	300WQ700-19-55	椭圆形 Ellipse 145.4 x 155.3	55	980	1215
2	300WQ700-16-45	椭圆形 Ellipse 145.4 x 155.3	45	980	1150
3	300WQ700-14-37	椭圆形 Ellipse 145.4 x 155.3	37	980	880
4	300WQ700-11-30	椭圆形 Ellipse 145.4 x 155.3	30	980	780
	额定电流 Rated current (A)	电机功率因数 Power factor of motor $\cos \phi$	电机效率 Efficiency of motor (%)	堵转转矩 / 额定转矩 Locked-rotor torque / Rated torque	
1	105	0.86	92.8	2.1	
2	86	0.86	92.5	2.1	
3	71	0.86	91.7	2.1	
4	59	0.84	91.5	2.0	

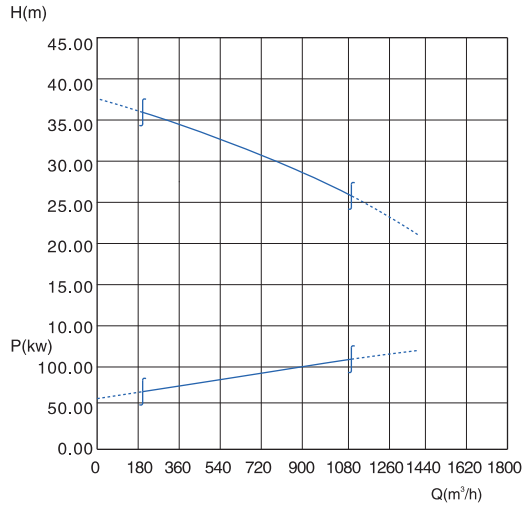
安装尺寸 Installation dimensions

泵性能曲线图 Pump performance curve chart

主要参数 main parameters

排出口径 Discharge aperture 300mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	300WQ1000-24-90	椭圆形 Ellipse 106 x 124	90	990	1650
2	300WQ1000-20-75	椭圆形 Ellipse 106 x 124	75	990	1530
	额定电流 Rated current (A)	电机功率因数 Power factor of motor $\cos \phi$	电机效率 Efficiency of motor (%)	堵转转矩 / 额定转矩 Locked-rotor torque / Rated torque	
1	170	0.86	93.8	2.0	
2	142	0.86	93.5	2.0	

安装尺寸 Installation dimensions


泵性能曲线图 Pump performance curve chart

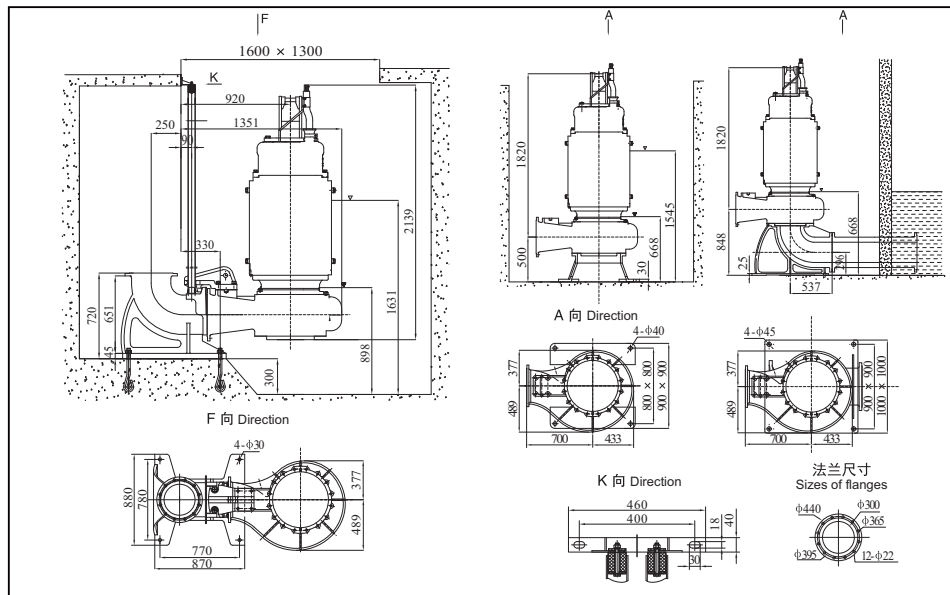


主要参数 main parameters

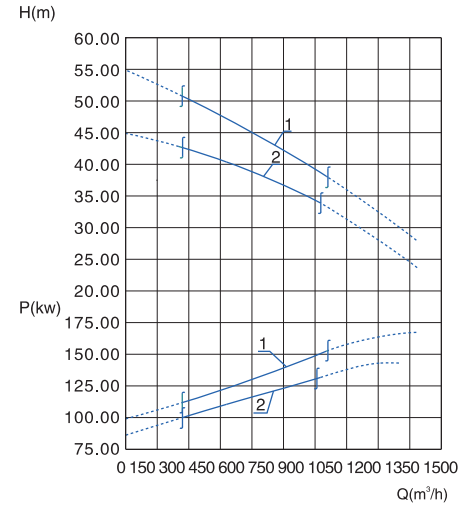
排出口径 Discharge aperture 300mm

泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
300WQ1000-28-110	椭圆形 Ellipse 106 × 124	110	980	1720
额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque / Rated torque	
207	0.86	94	2.0	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

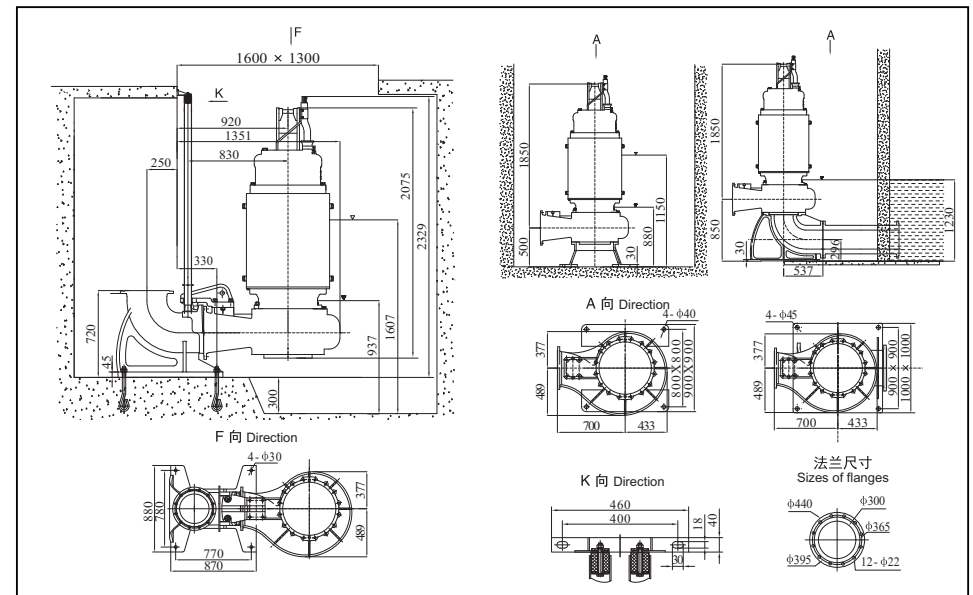


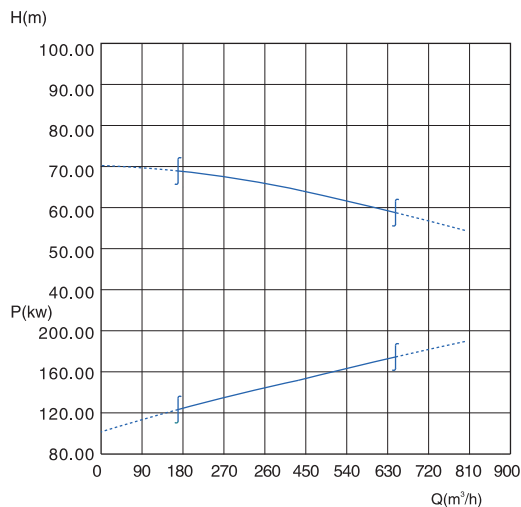
主要参数 main parameters

排出口径 Discharge aperture 300mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	300WQ1000-35-160	椭圆形 Ellipse 125 × 128	160	1480	2350
2	300WQ1000-30-132	椭圆形 Ellipse 125 × 128	132	1480	1800
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque / Rated torque	
1	288	0.89	94.9	2.1	
2	240	0.88	94.8	2.1	

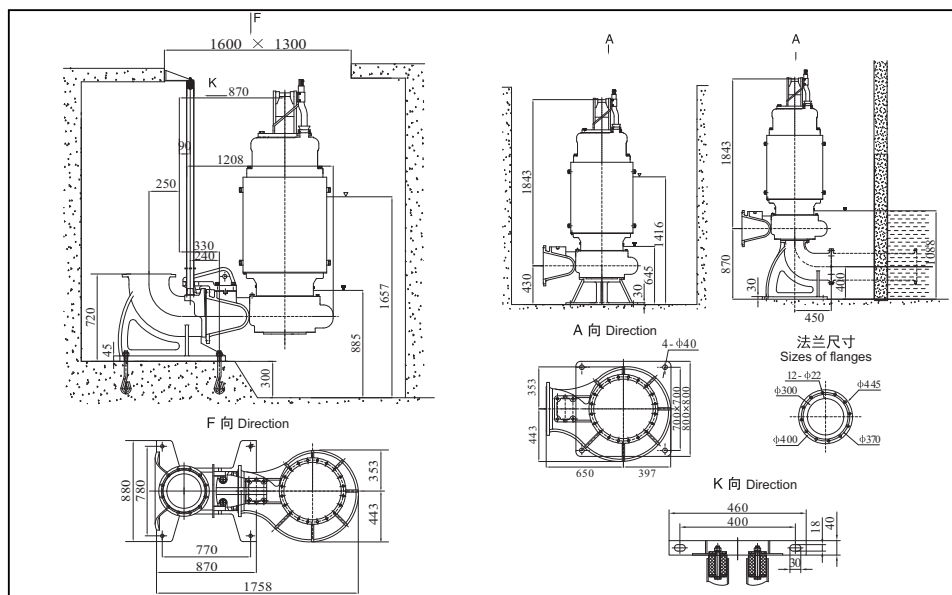
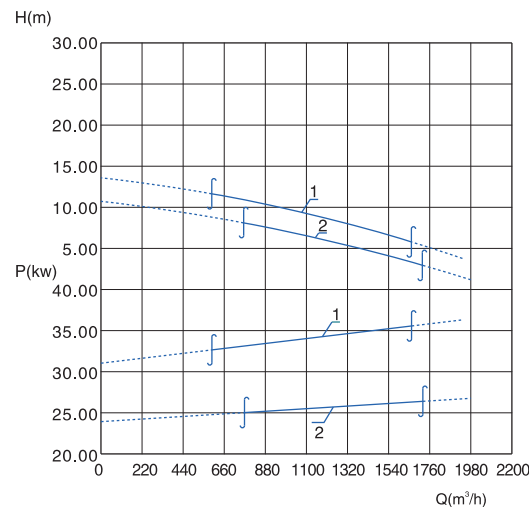
安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

主要参数 main parameters

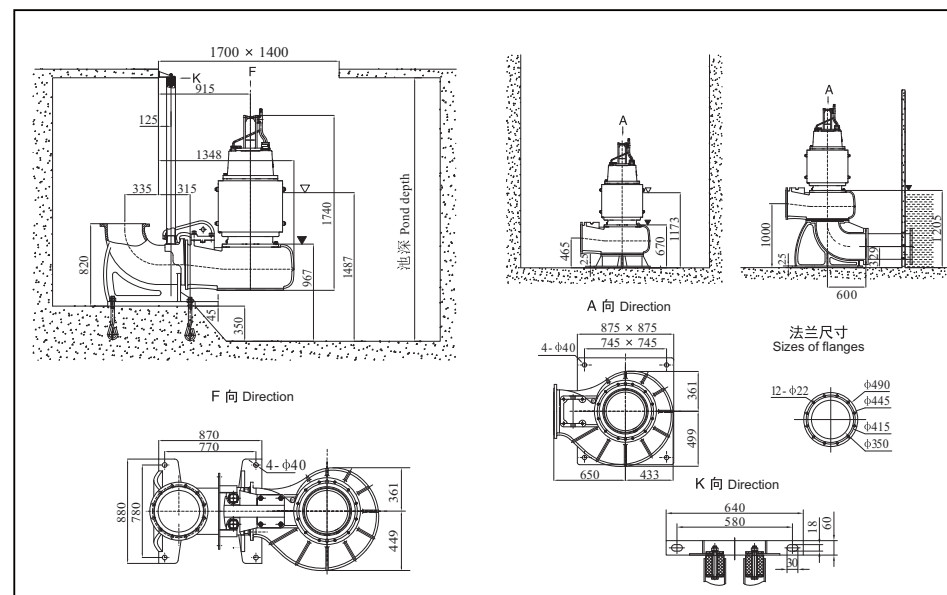
排出口径 Discharge aperture 300mm

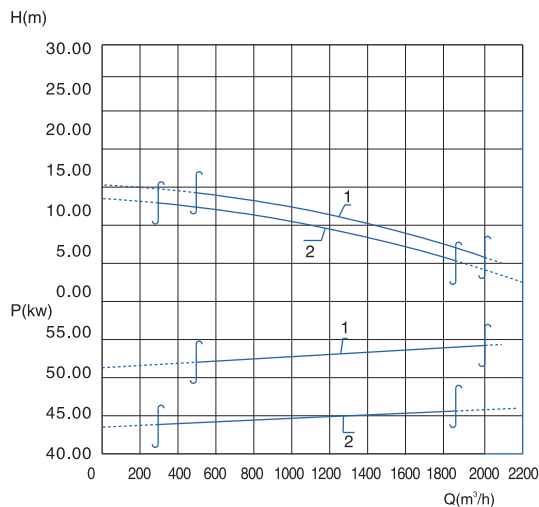
泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
300WQ500-60-185	椭圆形 Ellipse 87.2 × 107	185	1480	2600
额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
332	0.89	95	2.1	

安装尺寸 Installation dimensions

泵性能曲线图 Pump performance curve chart

主要参数 main parameters

排出口径 Discharge aperture 350mm

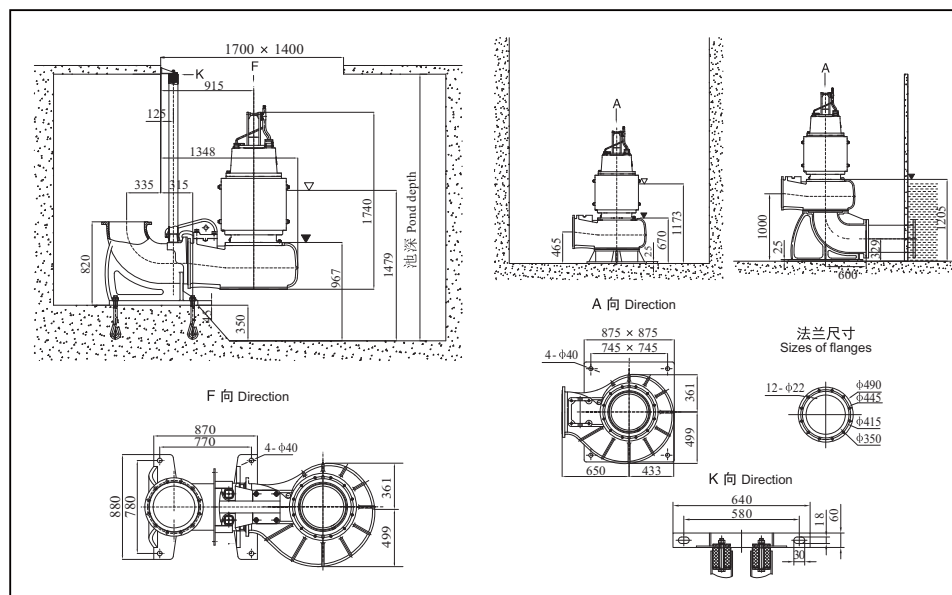
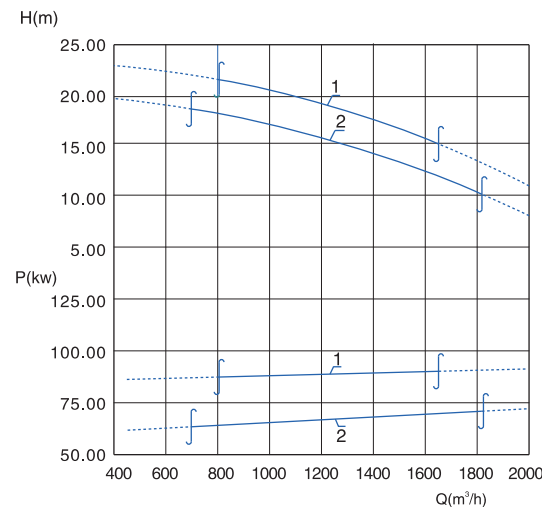
序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	350WQ1200-8-37	长方形 154 × 91 Rectangle	37	740	850
2	350WQ1200-6-30	长方形 157 × 87 Rectangle	30	740	950
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	78	0.79	91.5	1.9	
2	63	0.79	90.7	1.9	

安装尺寸 Installation dimensions


泵性能曲线图 Pump performance curve chart

主要参数 main parameters

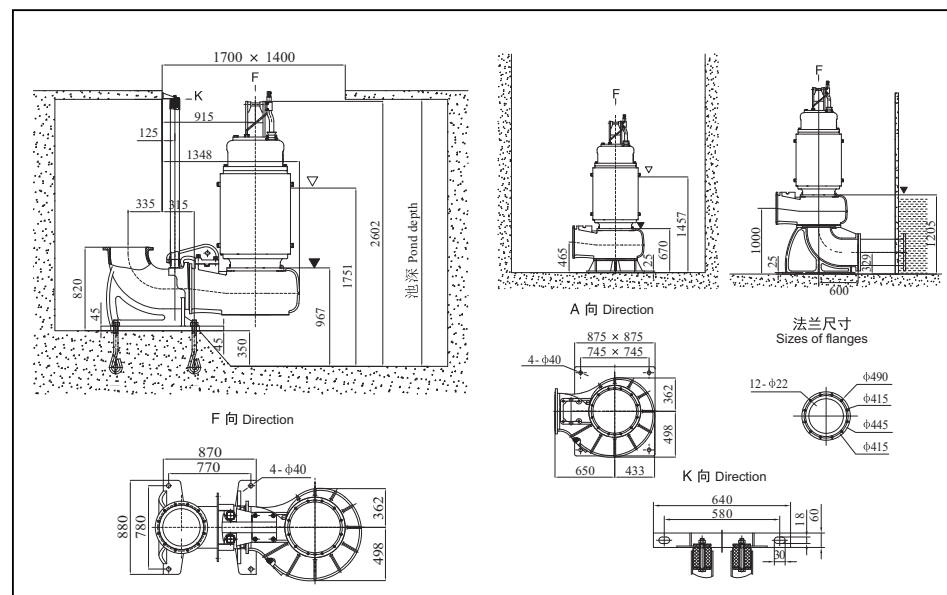
排出口径 Discharge aperture 350mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	350WQ1100-12-55	长方形 170 × 94 Rectangle	55	740	1320
2	350WQ1100-10-45	长方形 168 × 94 Rectangle	45	740	1250
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	111	0.81	92.8	1.8	
2	94	0.79	92	1.9	

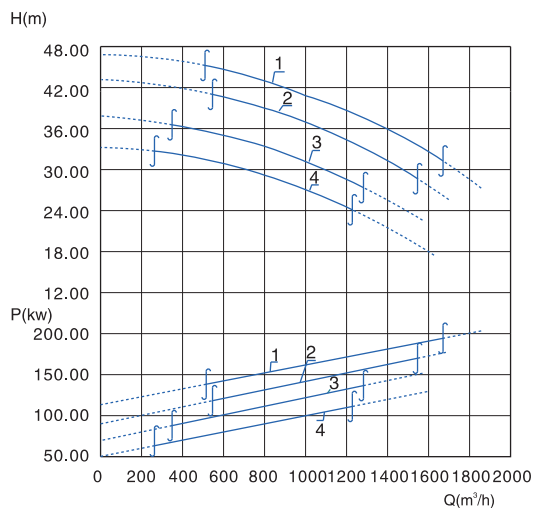
安装尺寸 Installation dimensions

泵性能曲线图 Pump performance curve chart

主要参数 main parameters

排出口径 Discharge aperture 350mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	350WQ1100-20-90	长方形 187 × 87 Rectangle	90	980	1770
2	350WQ1100-16-75	长方形 156 × 87 Rectangle	75	980	1650
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	170	0.86	93.8	2.0	
2	142	0.86	93.5	2.0	

安装尺寸 Installation dimensions


泵性能曲线图 Pump performance curve chart

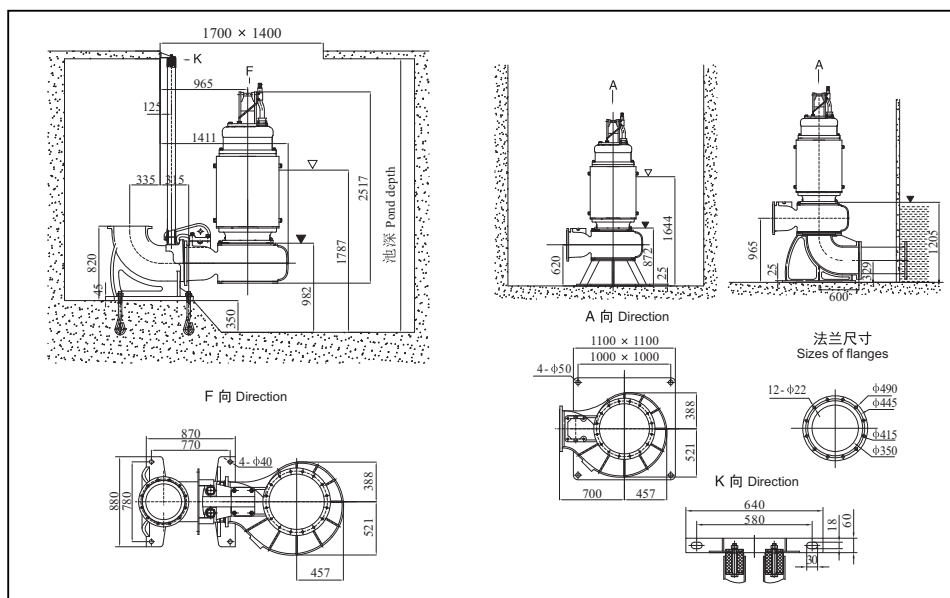


主要参数 main parameters

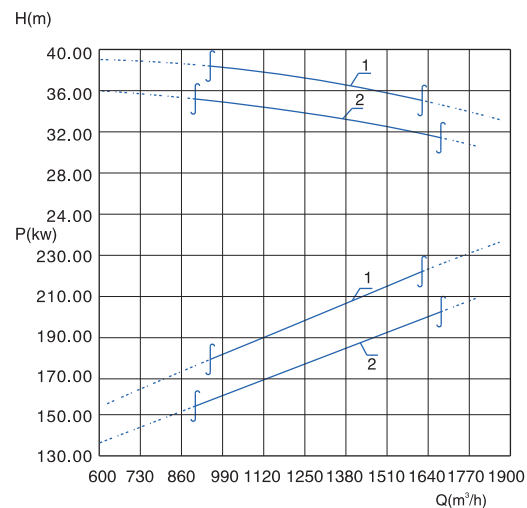
排出口径 Discharge aperture 350mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	350WQ1500-30-185	长方形111 × 195 Rectangle	185	980	2800
2	350WQ1100-36-160	长方形111 × 195 Rectangle	160	980	2700
3	350WQ1100-30-132	长方形187 × 50 Rectangle	132	980	1920
4	350WQ1100-25-110	长方形111 × 195 Rectangle	110	980	1840
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque/ Rated torque	
1	337	0.88	94.6	1.9	
2	292	0.88	94.5	1.9	
3	245	0.87	94.2	2.0	
4	207	0.86	94.0	2.0	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

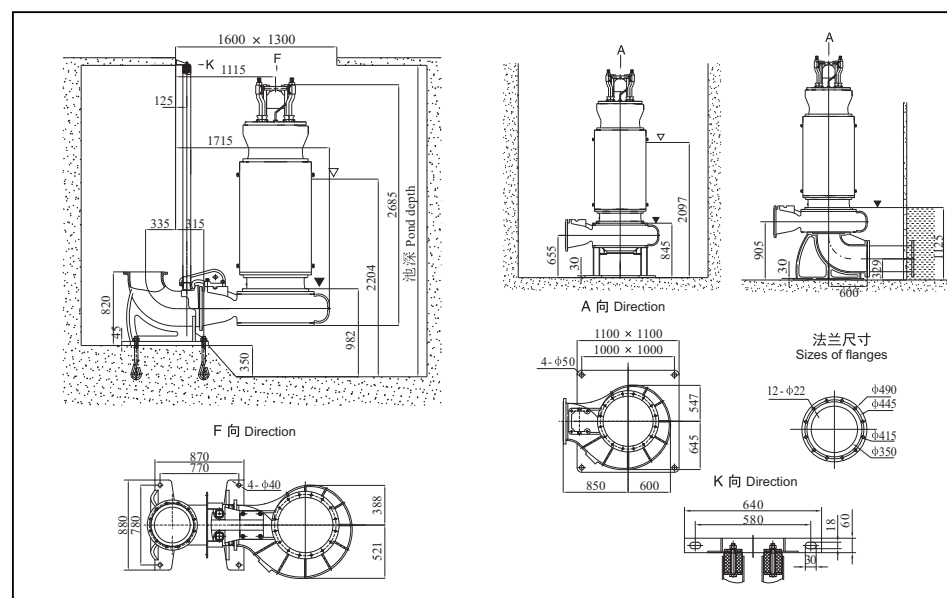


主要参数 main parameters

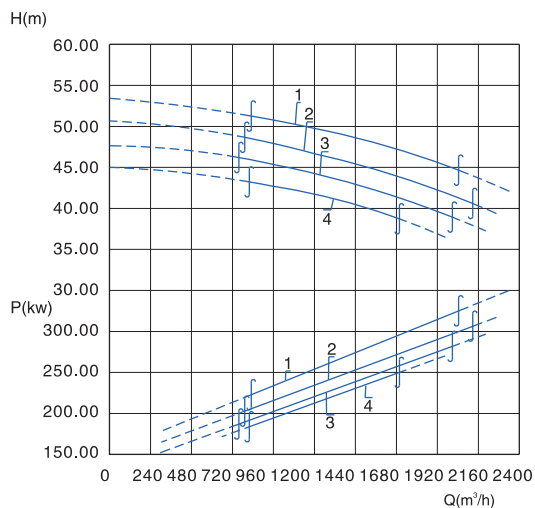
排出口径 Discharge aperture 350mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	350WQ1500-35-220	长方形 146 × 139 Rectangle	220	740	3050
2	350WQ1500-32-200	长方形 146 × 139 Rectangle	200	740	2850
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque/ Rated torque	
1	434	0.81	95	1.2	
2	387	0.83	94.5	1.8	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

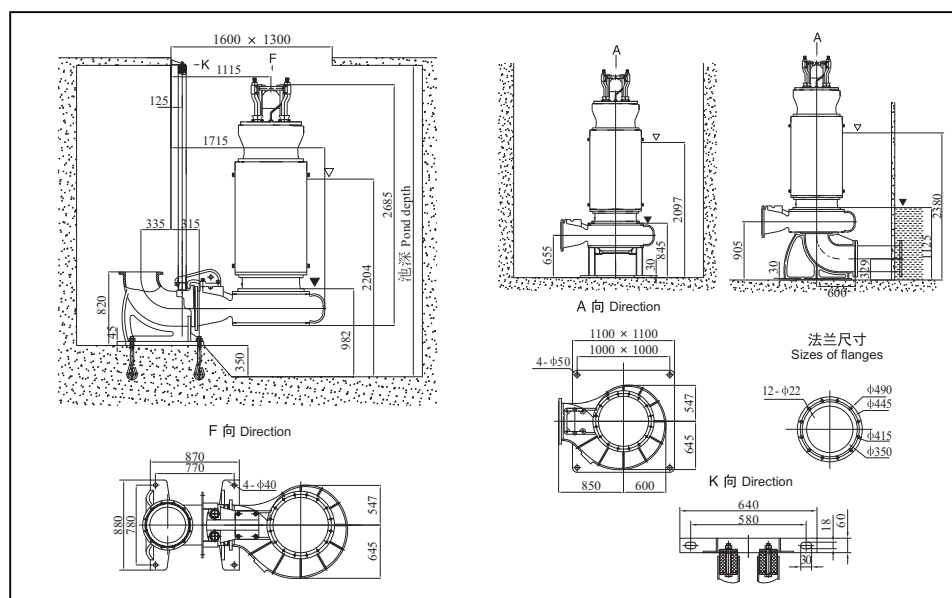


主要参数 main parameters

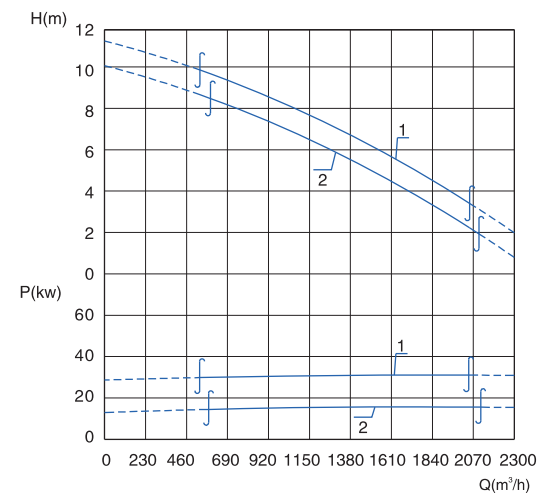
排出口径 Discharge aperture 350mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	350WQ2000-45-355	长方形146 × 139 Rectangle	355	740	3950
2	350WQ1800-43-315	长方形146 × 139 Rectangle	315	740	3650
3	350WQ1800-40-280	长方形146 × 139 Rectangle	280	740	3450
4	350WQ1500-40-250	长方形146 × 139 Rectangle	250	740	3250

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

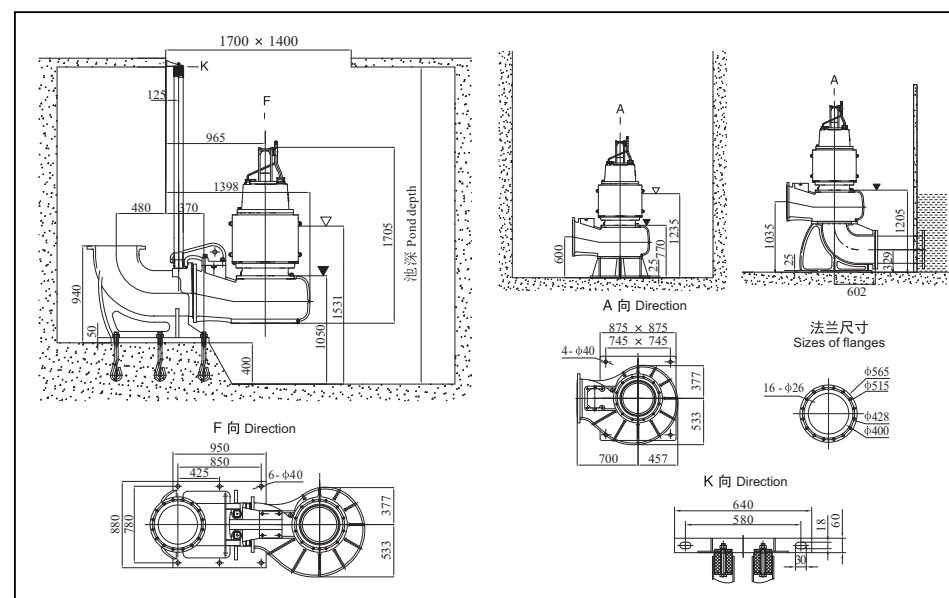


主要参数 main parameters

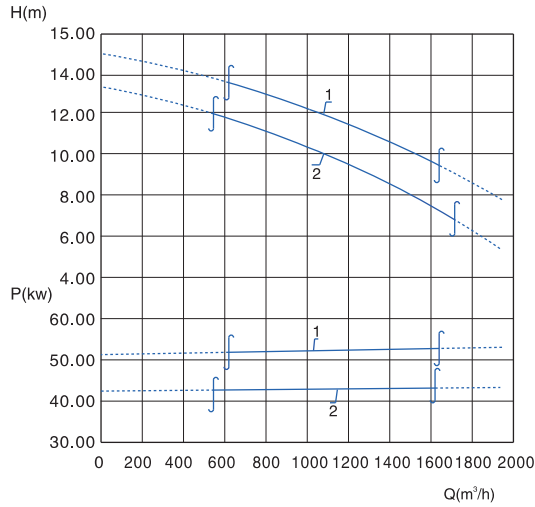
排出口径 Discharge aperture 400mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	400WQ1500-6-37	长方形135 × 91 Rectangle	37	740	1020
2	400WQ1500-5-30	长方形135 × 91 Rectangle	30	740	960

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

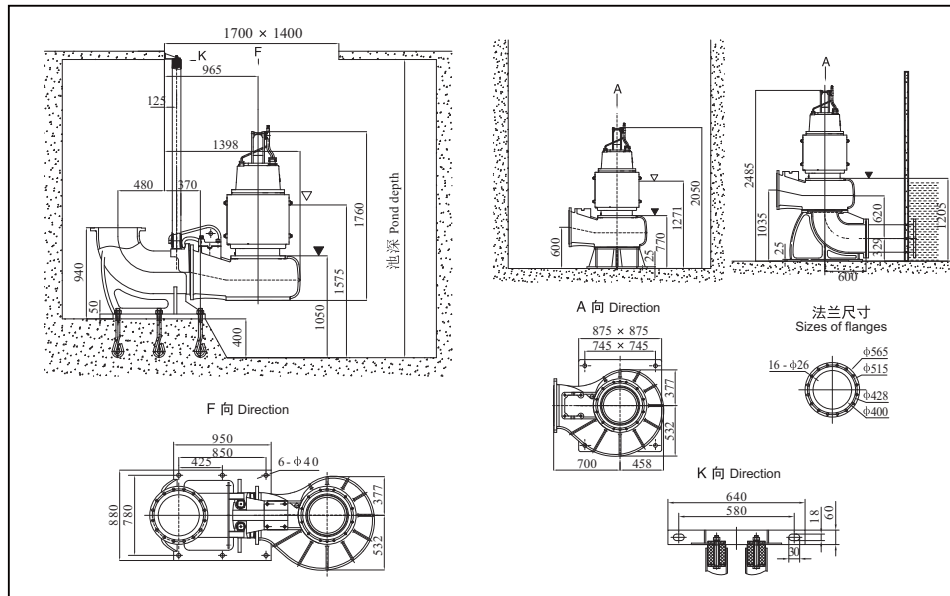


主要参数 main parameters

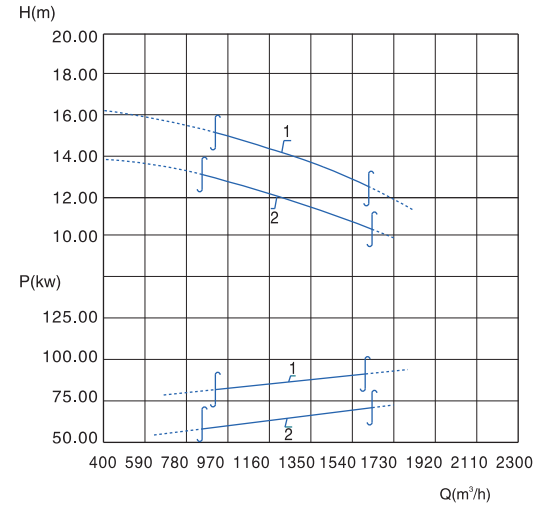
排出口径 Discharge aperture 400mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	400WQ1500-10-55	长方形 169 × 94 Rectangle	55	740	1470
2	400WQ1500-8-45	长方形 169 × 94 Rectangle	45	740	1350
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩 / 额定转矩 Locked-rotor torque / Rated torque	
1	111	0.81	92.8	1.8	
2	94	0.79	92	1.9	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

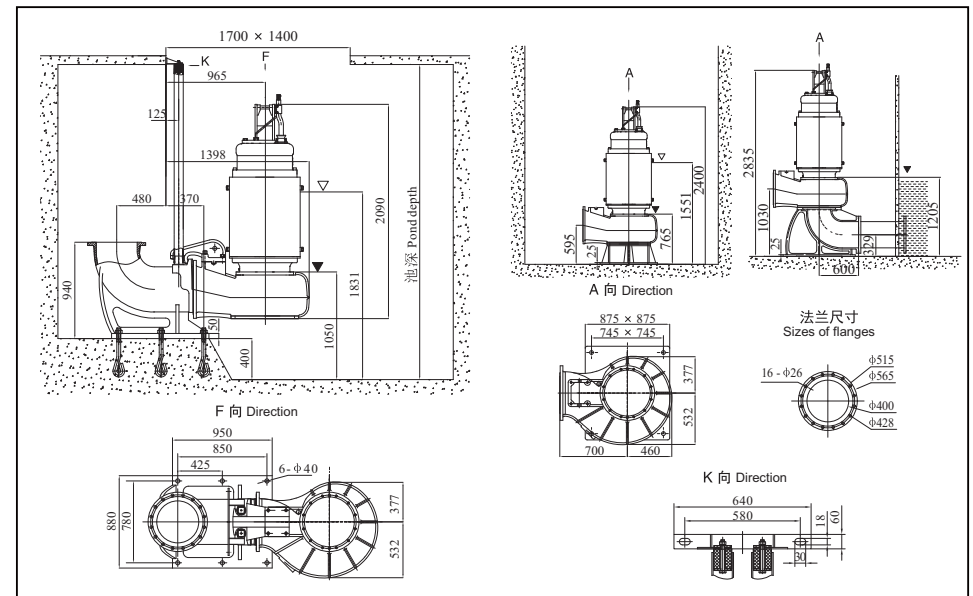


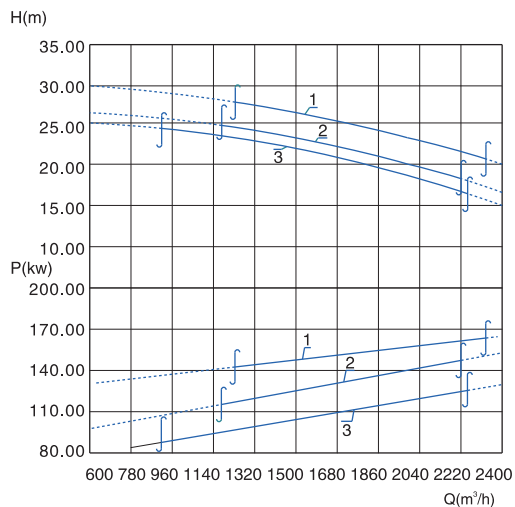
主要参数 main parameters

排出口径 Discharge aperture 400mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	400WQ1500-15-90	长方形 157 × 87 Rectangle	90	990	1860
2	400WQ1500-12-75	长方形 157 × 87 Rectangle	75	990	1740
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩 / 额定转矩 Locked-rotor torque / Rated torque	
1	170	0.86	93.8	2.0	
2	142	0.86	93.5	2.0	

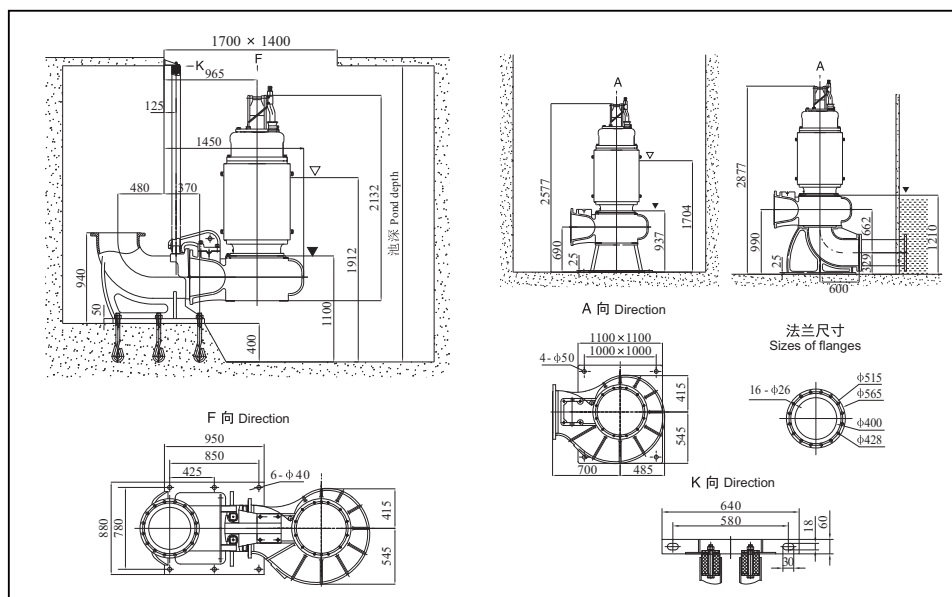
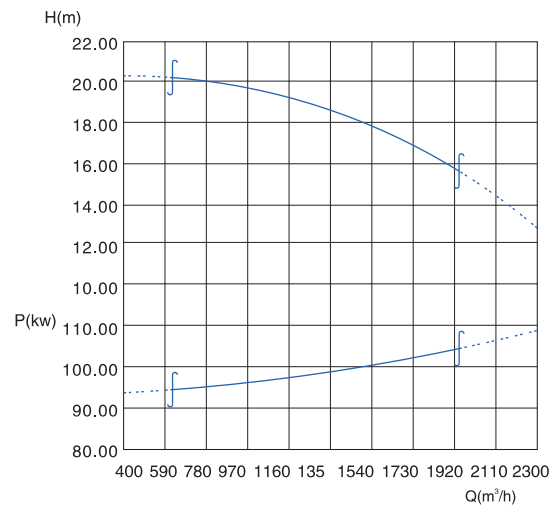
安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

主要参数 main parameters

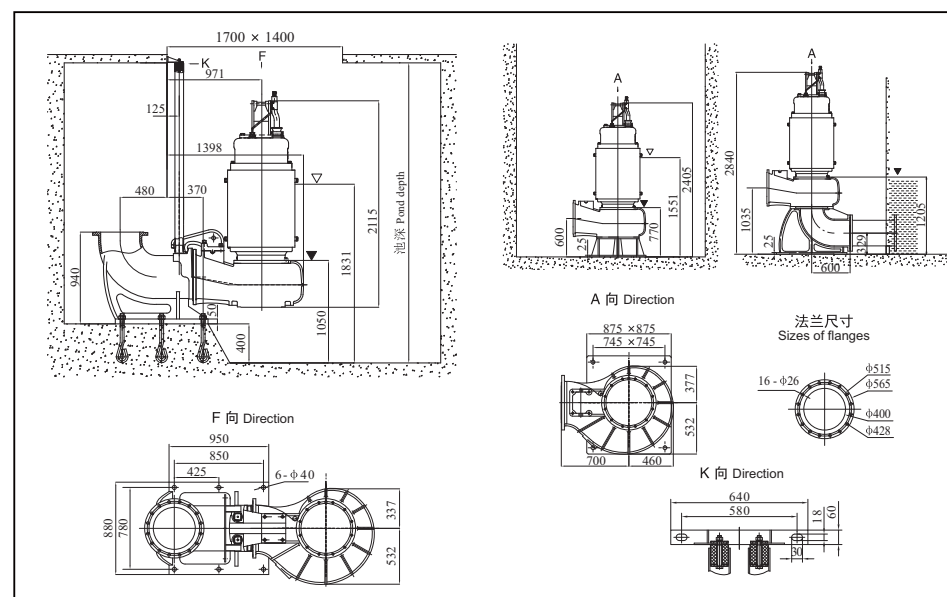
排出口径 Discharge aperture 400mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	400WQ2000-23-185	长方形155 x 174 Rectangle	185	990	2800
2	400WQ2000-20-160	长方形155 x 174 Rectangle	160	990	2750
3	400WQ1500-22-132	长方形155 x 174 Rectangle	132	990	2020
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	337	0.88	94.6	1.9	
2	292	0.88	94.5	1.9	
3	245	0.87	94.2	2.0	

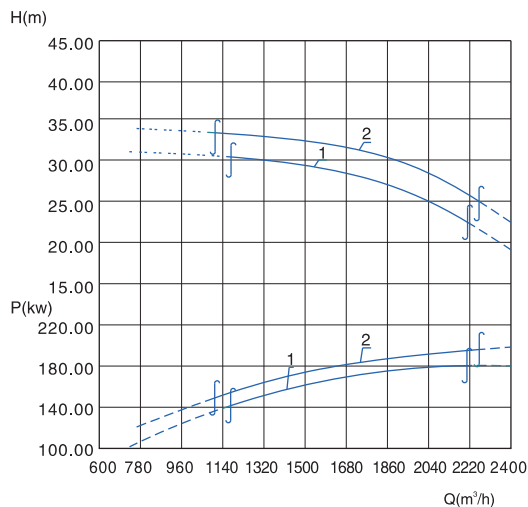
安装尺寸 Installation dimensions

泵性能曲线图 Pump performance curve chart

主要参数 main parameters

排出口径 Discharge aperture 400mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	400WQ1500-18-110	长方形157 x 87 Rectangle	110	990	1930
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	207	0.86	94	2.0	

安装尺寸 Installation dimensions


泵性能曲线图 Pump performance curve chart

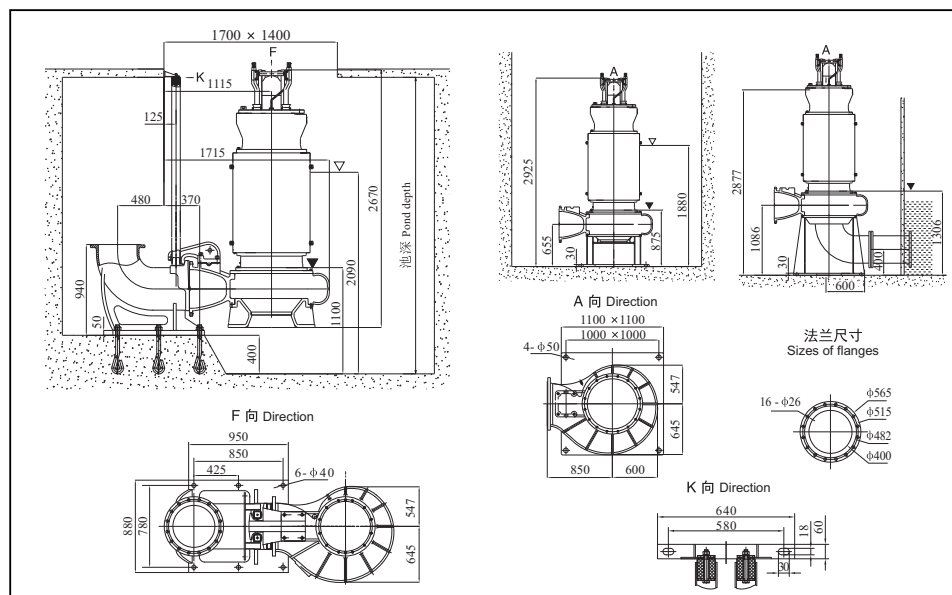


主要参数 main parameters

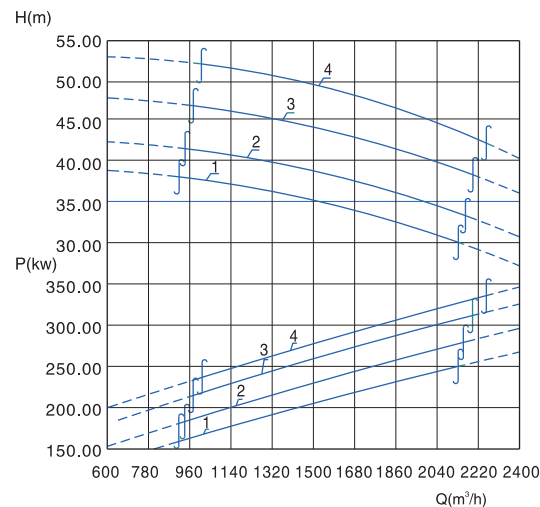
排出口径 Discharge aperture 400mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	400WQ2000-28-220	长方形 155 × 174 Rectangle	220	745	3050
2	400WQ2000-25-200	长方形 155 × 174 Rectangle	200	745	2850
		额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque
1		434	0.81	95	1.2
2		387	0.83	94.5	1.8

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

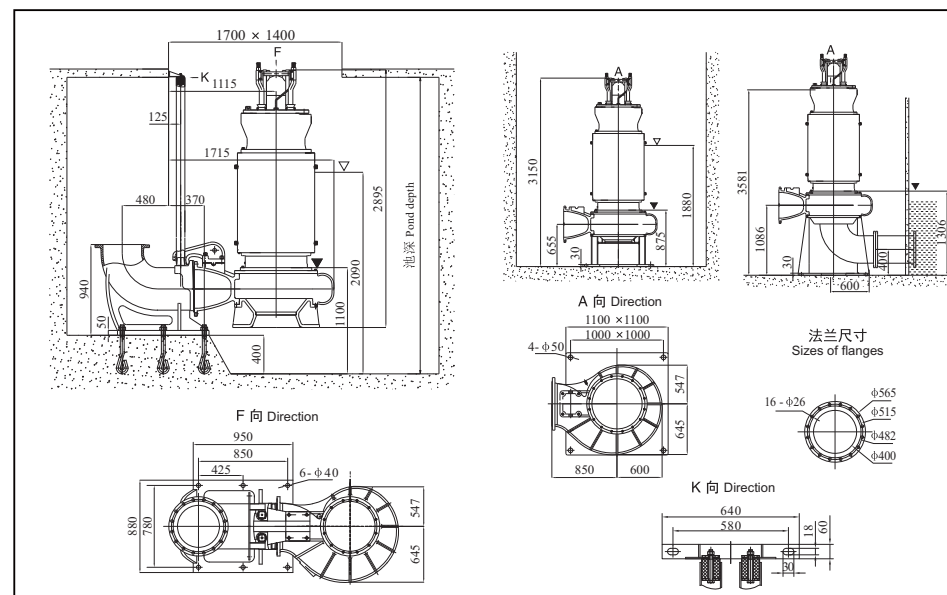


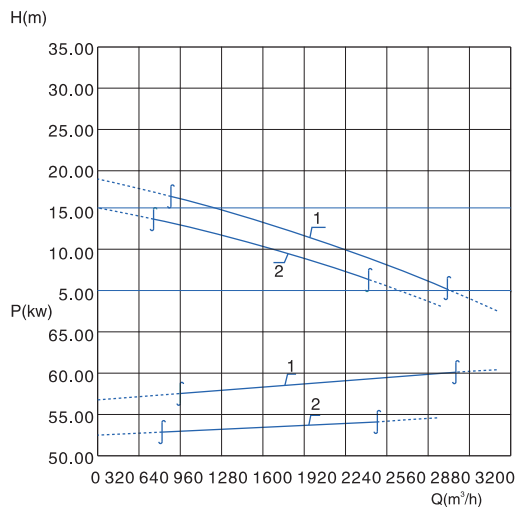
主要参数 main parameters

排出口径 Discharge aperture 400mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	400WQ2000-45-355	长方形 155 × 174 Rectangle	355	740	4050
2	400WQ2000-40-315	长方形 155 × 174 Rectangle	315	740	3700
3	400WQ2000-36-280	长方形 155 × 174 Rectangle	280	740	3450
4	400WQ2000-32-250	长方形 155 × 174 Rectangle	250	740	3250
		额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque
1		692	0.82	95	1.3
2		593	0.85	95	1.1
3		553	0.81	95	1.2
4		494	0.81	95	1.2

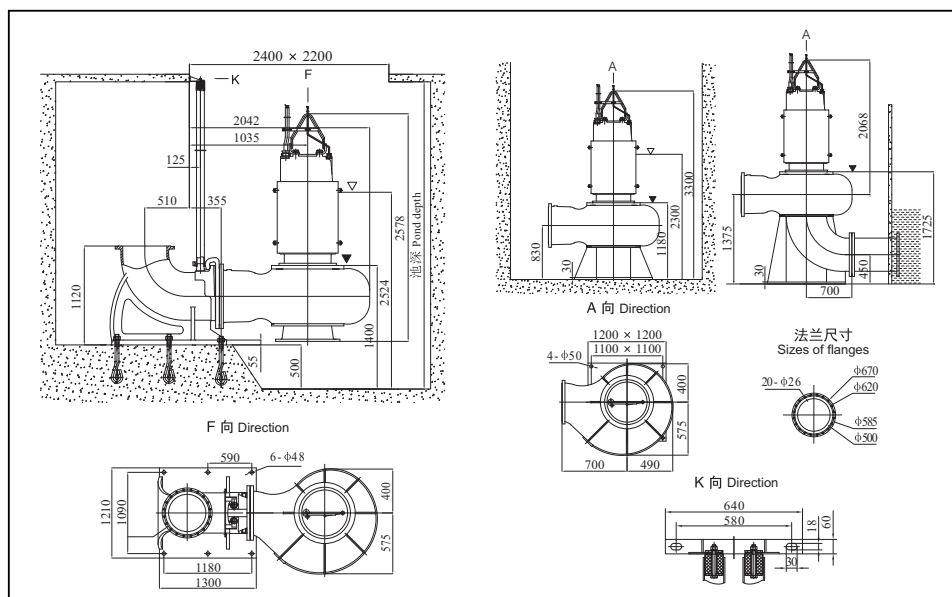
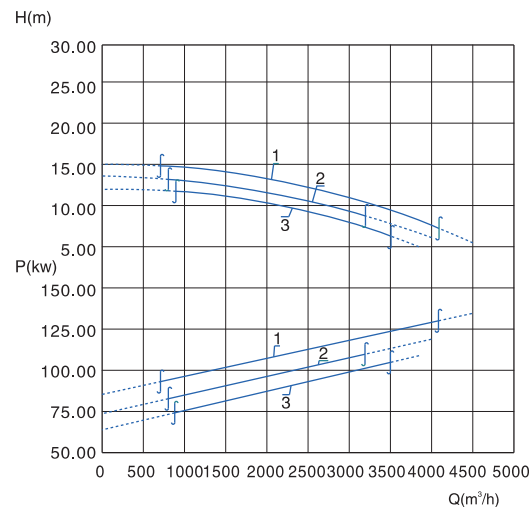
安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

主要参数 main parameters

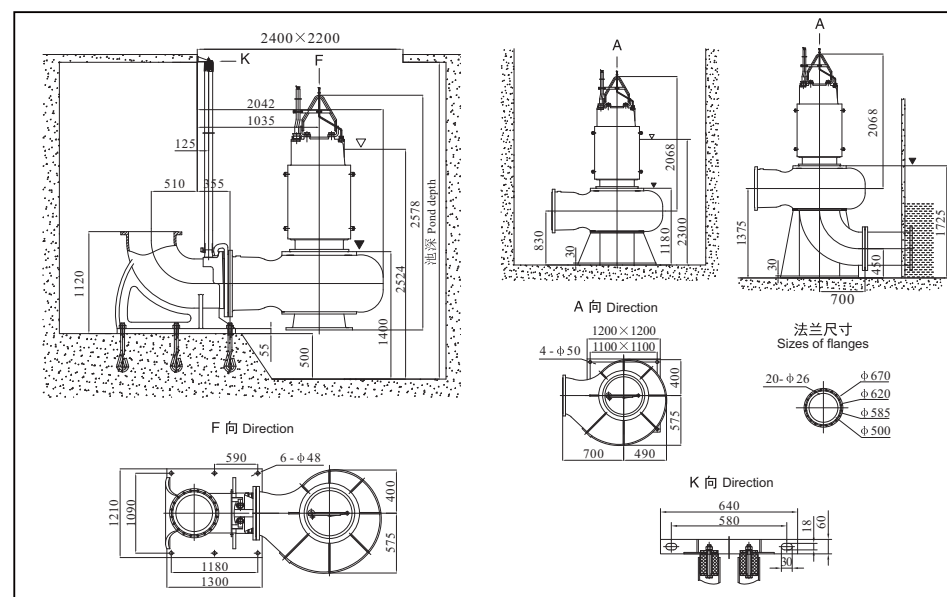
排出口径 Discharge aperture 500mm

序号 No.	泵型号 Model of pump	流量尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	500WQ2200-8-75	长方形 157 × 87 Rectangle	75	740	2150
2	500WQ2000-7-55	长方形 157 × 87 Rectangle	55	740	1950
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	151	0.81	93	1.8	
2	111	0.81	92.8	1.8	

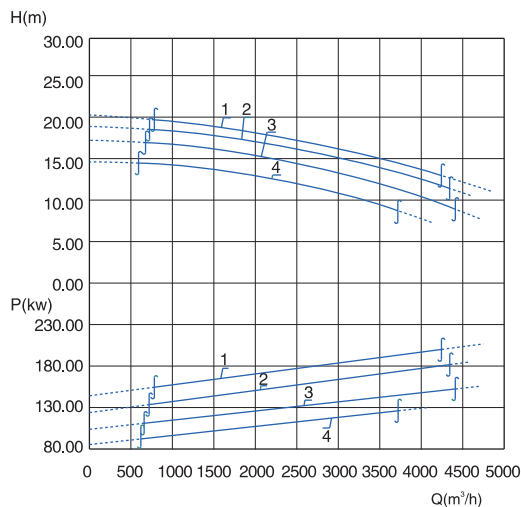
安装尺寸 Installation dimensions

泵性能曲线图 Pump performance curve chart

主要参数 main parameters

排出口径 Discharge aperture 500mm

序号 No.	泵型号 Model of pump	流量尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	500WQ2200-15-132	长方形 151 × 153 Rectangle	132	980	2210
2	500WQ2200-12-110	长方形 151 × 153 Rectangle	110	980	1990
3	500WQ2200-10-90	长方形 151 × 153 Rectangle	90	980	1920
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	245	0.87	94.2	2.0	
2	207	0.86	94	2.0	
3	170	0.86	93.8	2.0	

安装尺寸 Installation dimensions


泵性能曲线图 Pump performance curve chart

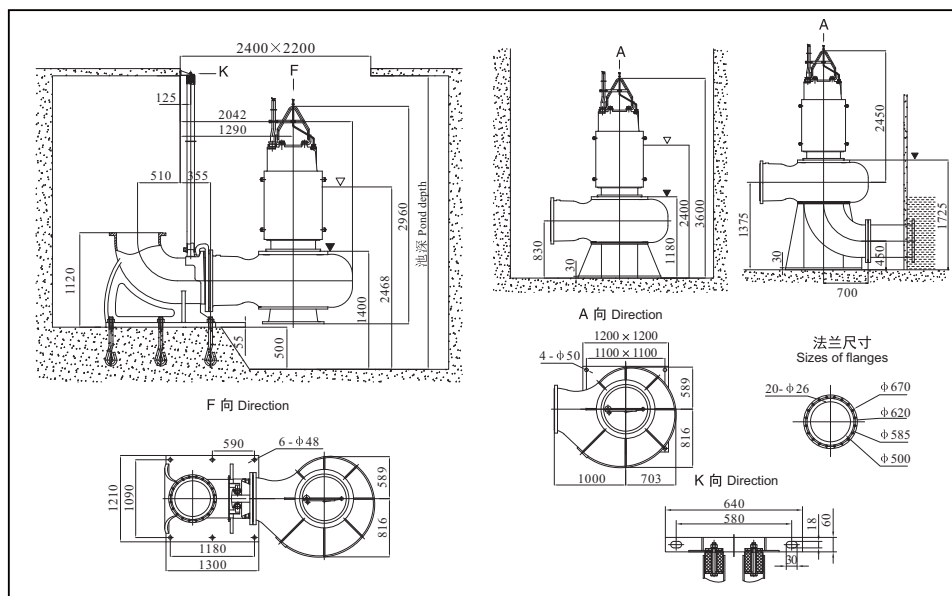


主要参数 main parameters

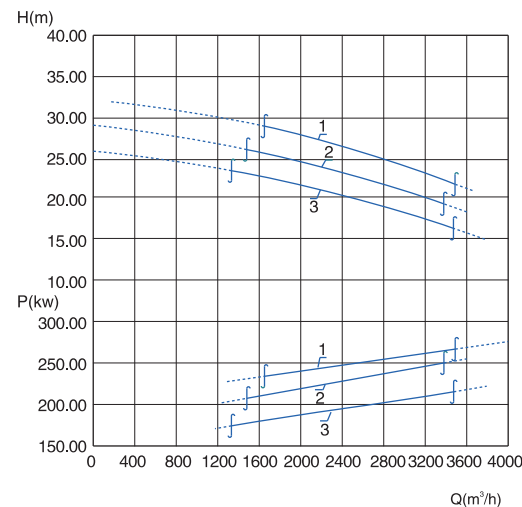
排出口径 Discharge aperture 500mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	500WQ3000-16-200	长方形151 x 153 Rectangle	200	745	3000
2	500WQ3000-15-185	长方形151 x 153 Rectangle	185	745	2950
3	500WQ3000-13-160	长方形151 x 153 Rectangle	160	745	2900
4	500WQ3000-11-132	长方形151 x 153 Rectangle	132	745	2210
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	387	0.83	94.5	1.8	
2	360	0.83	94	1.8	
3	315	0.82	94.2	1.8	
4	261	0.82	93.7	1.8	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

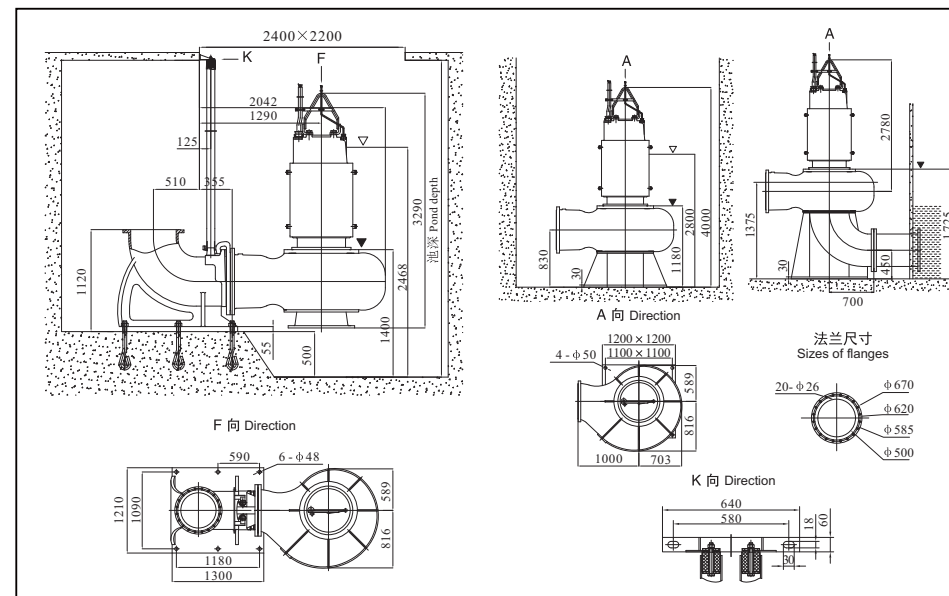


主要参数 main parameters

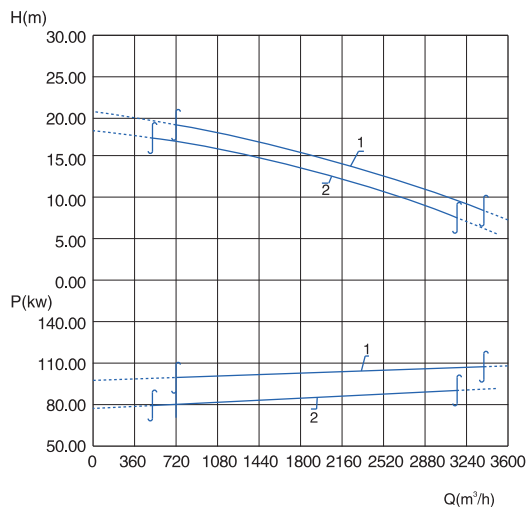
排出口径 Discharge aperture 500mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	500WQ3000-24-280	长方形151 x 153 Rectangle	280	745	3600
2	500WQ3000-21-250	长方形151 x 153 Rectangle	250	745	3400
3	500WQ3000-18-220	长方形151 x 153 Rectangle	220	745	3200
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	553	0.81	95	1.2	
2	494	0.81	95	1.2	
3	434	0.81	95	1.2	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

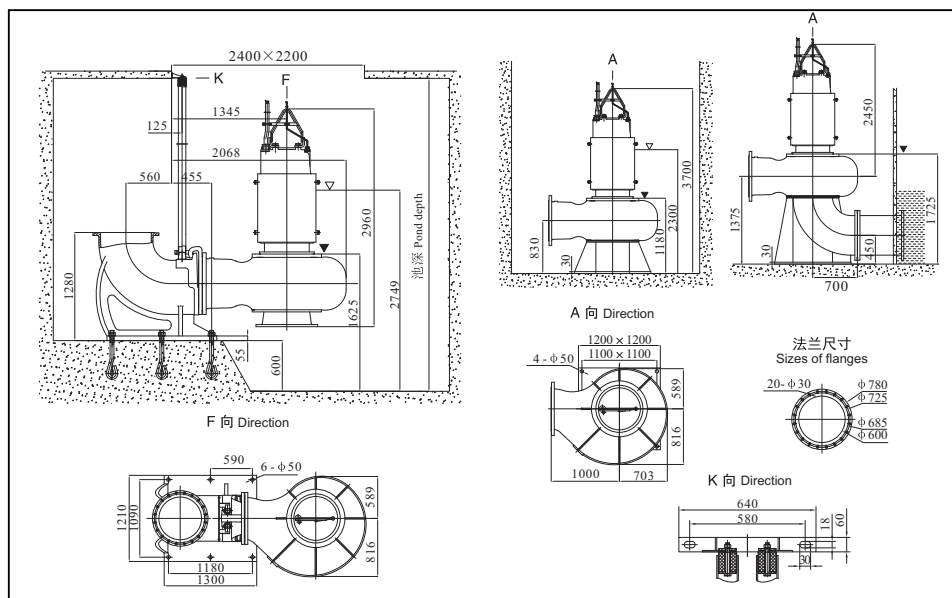


主要参数 main parameters

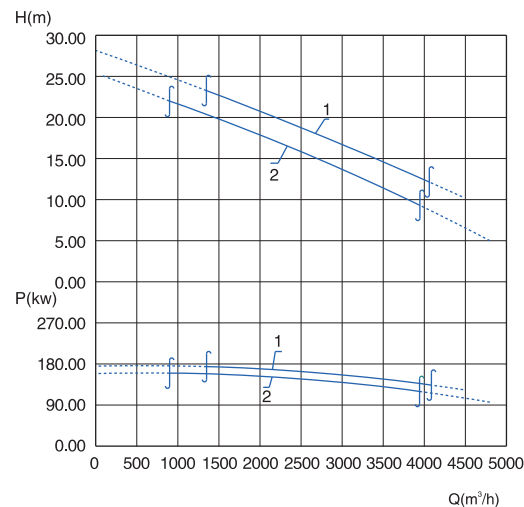
排出口径 Discharge aperture 600mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	600WQ3000-10-132	长方形 218 × 160 Rectangle	132	590	3000
2	600WQ3000-8-110	长方形 218 × 160 Rectangle	110	590	2900
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque / Rated torque	
1	275	0.78	93.5	1.3	
2	230	0.78	93.2	1.3	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

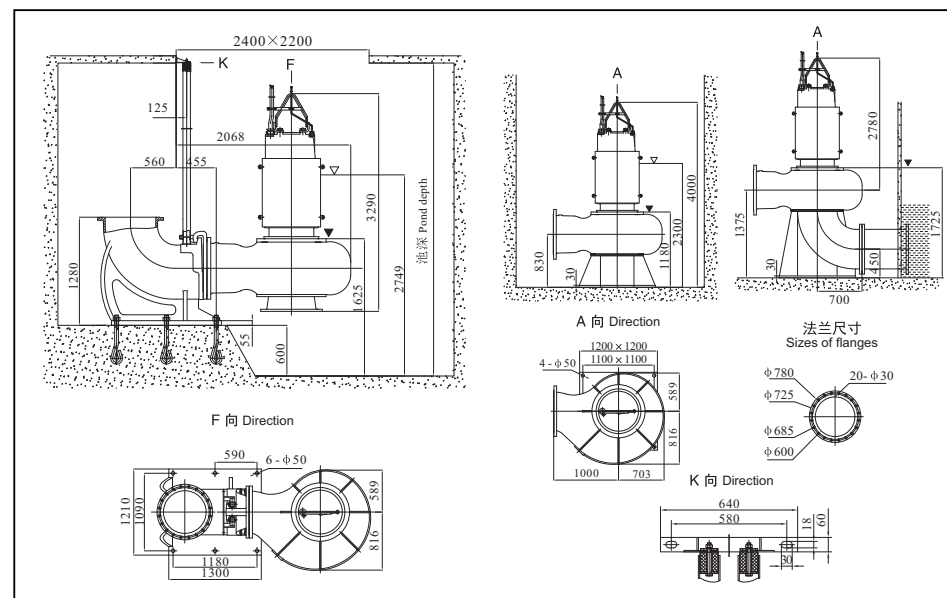


主要参数 main parameters

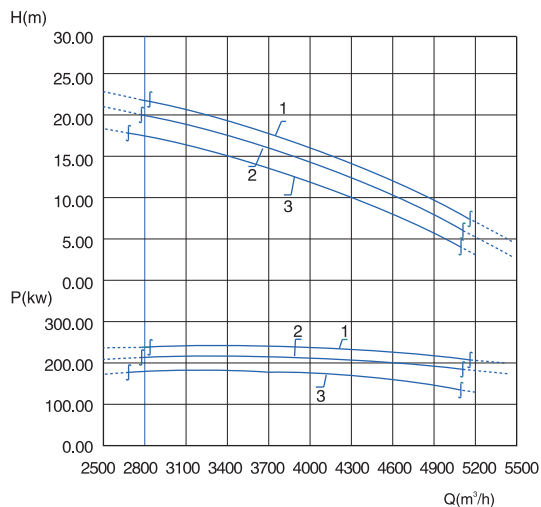
排出口径 Discharge aperture 600mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	600WQ3600-14-185	长方形 220 × 160 Rectangle	185	745	3050
2	600WQ3600-11-160	长方形 220 × 160 Rectangle	160	745	3000
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque / Rated torque	
1	360	0.83	94.3	1.8	
2	315	0.82	94.2	1.8	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

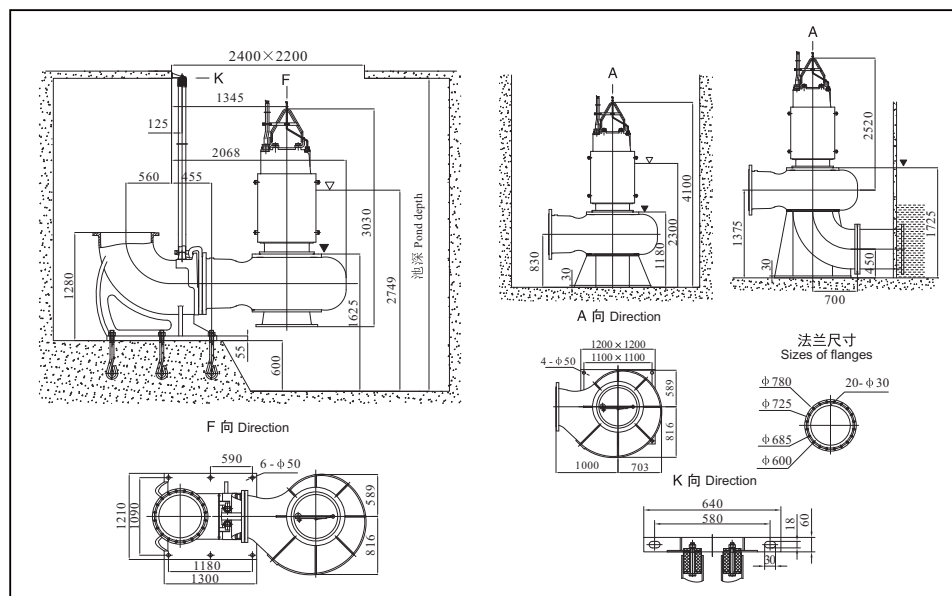


主要参数 main parameters

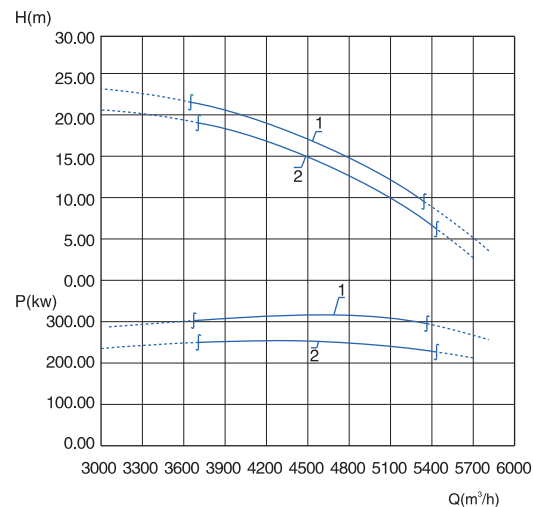
排出口径 Discharge aperture 600mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	600WQ4000-16-250	长方形 228 × 168 Rectangle	250	745	3500
2	600WQ4000-14-220	长方形 228 × 168 Rectangle	220	745	3300
3	600WQ4000-12-200	长方形 228 × 168 Rectangle	200	745	3100
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	494	0.81	95	1.2	
2	434	0.81	95	1.2	
3	387	0.83	94.5	1.8	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

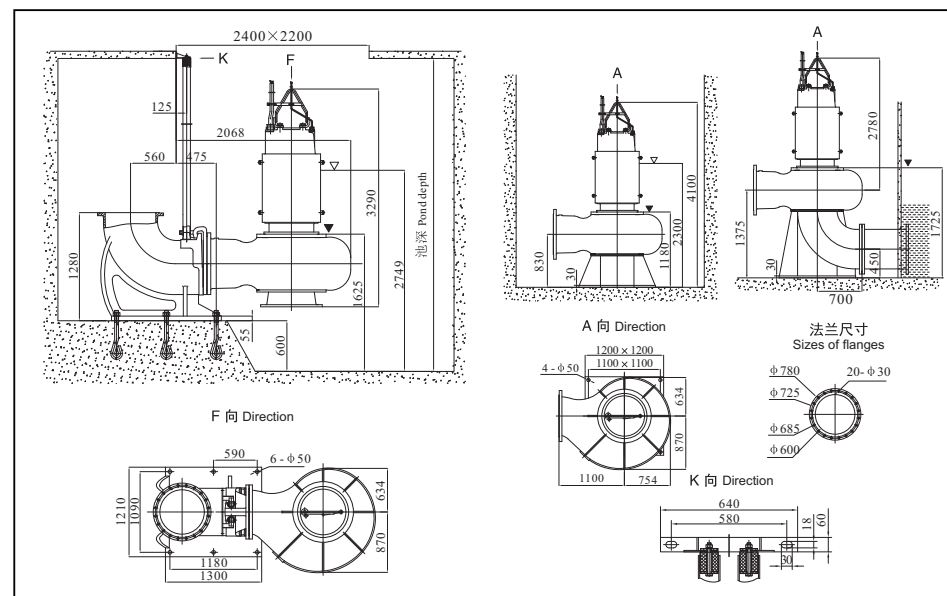


主要参数 main parameters

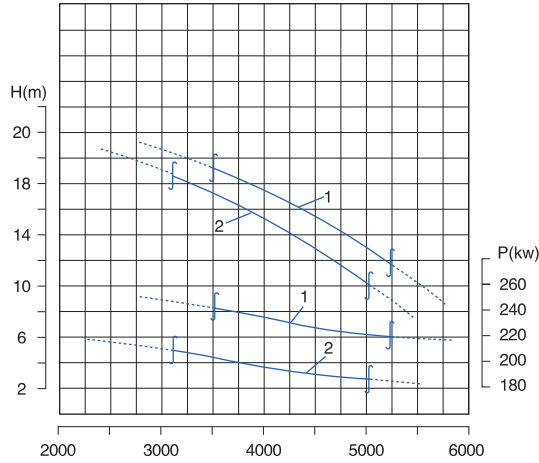
排出口径 Discharge aperture 600mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	600WQ4000-20-315	长方形 245 × 180 Rectangle	315	745	4000
2	600WQ4000-18-280	长方形 245 × 180 Rectangle	280	745	3750
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	593	0.85	95	1.1	
2	553	0.81	95	1.2	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

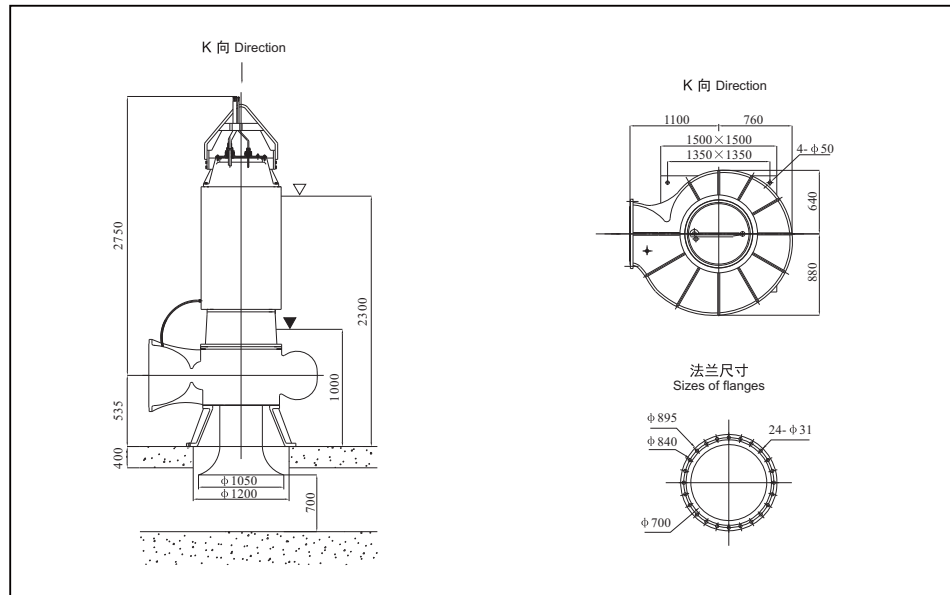


主要参数 main parameters

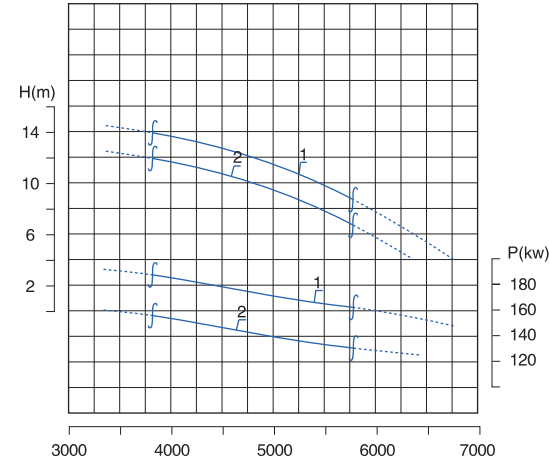
排出口径 Discharge aperture 700mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	700WQ4500-16-250	190	250	745	6800
2	700WQ4500-13-220	195	220	745	6500
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS ϕ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	494	0.81	95	1.2	
2	434	0.81	95	1.2	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart

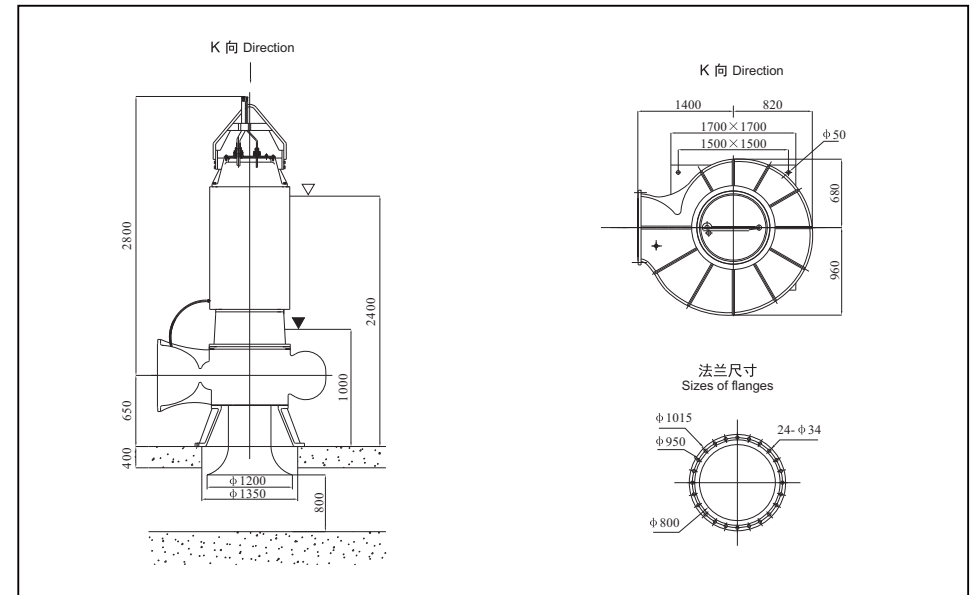


主要参数 main parameters

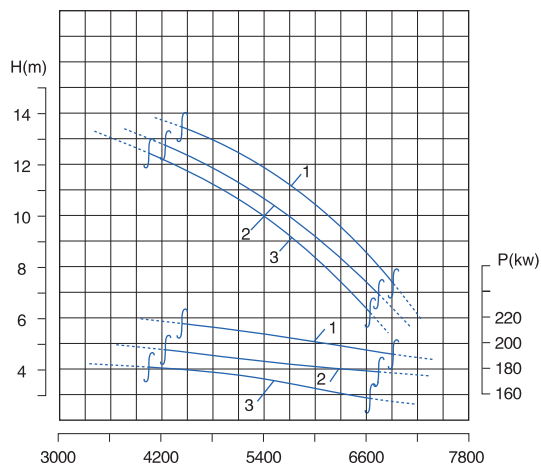
排出口径 Discharge aperture 800mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	800WQ5000-10-185	220	185	590	7000
2	800WQ5000-8-160	205	160	590	6200
	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS ϕ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque /Rated torque	
1	373	0.8	94	1.54	
2	333	0.78	93.5	1.3	

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart



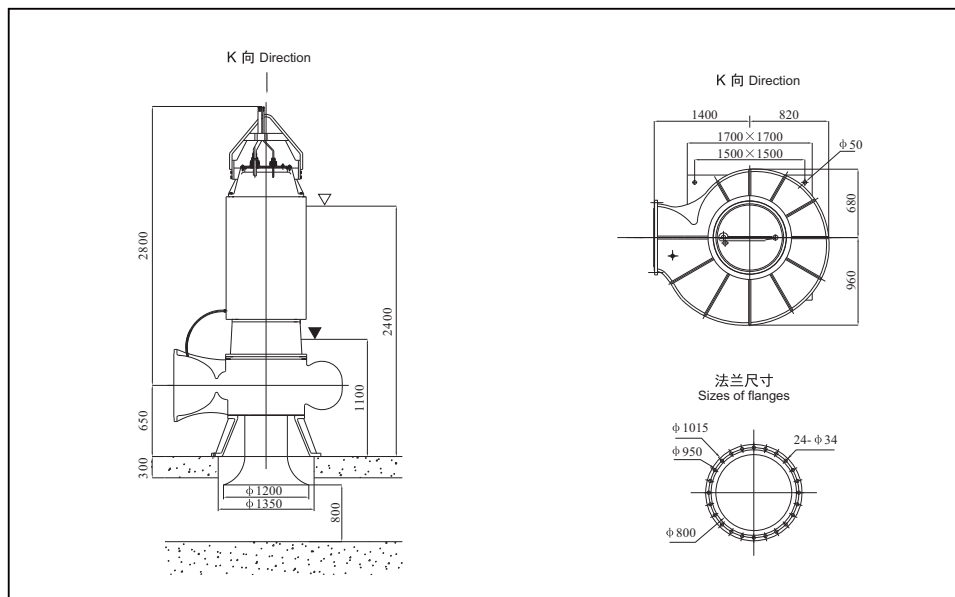
主要参数 main parameters

排出口径 Discharge aperture 800mm

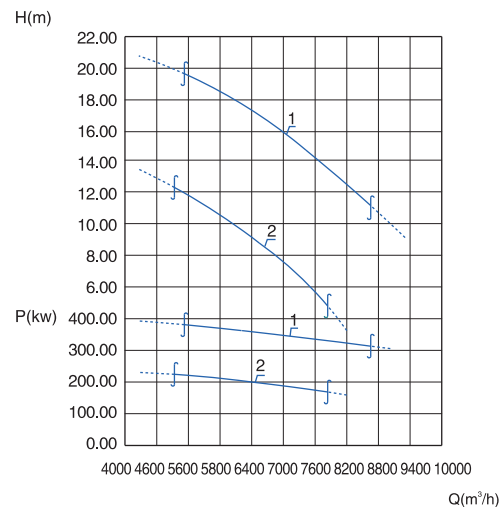
序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	800WQ5500-11-220	220	220	495	8200
2	800WQ5500-10-200	215	200	495	7800
3	800WQ5500-9-185	210	200	495	7500

	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque / Rated torque
1	479	0.755	92.5	0.8
2	438	0.755	92	0.8
3	392	0.78	92	1.0

安装尺寸 Installation dimensions



泵性能曲线图 Pump performance curve chart



主要参数 main parameters

排出口径 Discharge aperture 800mm

序号 No.	泵型号 Model of pump	流道尺寸 Size of runner (mm)	电机额定功率 Rated power of motor (kW)	转速 Speed (r/min)	泵重 Weight of pump (kg)
1	800WQ7920-15-500	长方形337×250 Rectangle	500	490	15000
2	800WQ6500-10-250	长方形337×250 Rectangle	250	490	12000

	额定电流 Rated current (A)	电机功率因数 Power factor of motor COS φ	电机效率 Efficiency of motor (%)	堵转转矩/ 额定转矩 Locked-rotor torque / Rated torque
1	42.4	0.73	93.2	0.7
2	21.5	0.73	92.1	0.7

安装尺寸 Installation dimensions

