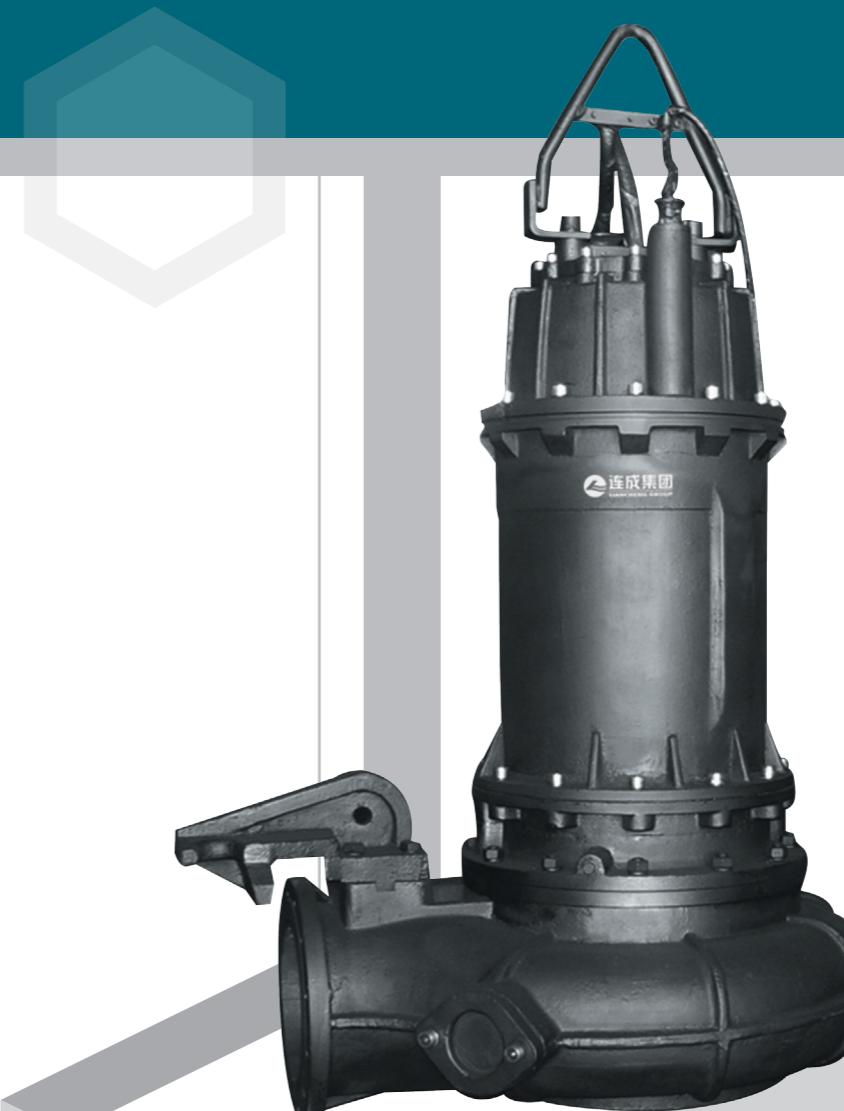




WQ 系列潛水排污泵

WQ SERIES SUBMERSIBLE SEWAGE PUMP



上海连成(集团)有限公司
SHANGHAI LIANCHENG (GROUP) CO.,LTD.

地址：上海市江桥曹安公路3616-3618号
邮编：201812
总机：(021) 59138888
传真：(021) 59136782
800免费咨询电话：800-820-5009
400免费咨询电话：400-188-5009

Address: 3616-3618 Cao'an Road, Jiangqiao Shanghai
P.C.: 201812
Switchboard: (021) 59138888
Fax: (021) 59136782
800 Free consultation Tel: 800-820-5009
400 Free consultation Tel: 400-188-5009



连成集团微信公众号

企业简介 CORPORATION OUTLINE



上海连成(集团)有限公司，是一家国内著名的研究制造泵、阀和流体输送系统、电气控制系统和环保设备的多元化经营的大型集团企业。

经过十多年的发展，现已拥有五大工业园区，分布于上海、江苏和浙江等经济发达地区，总占地面积达55万平方米，总部设在上海封浜工业园区。旗下拥有上海连成泵业制造有限公司、上海连成电机有限公司、上海连成阀门有限公司、上海连成集团物流有限公司、上海连成集团通用设备安装工程、上海阿美泰克工业设备有限公司、上海连成集团环境工程设备有限公司、上海连成集团股份有限公司等多家全资子公司及控股公司，注册资本达5.8亿元以上，总资产达数十亿元。产品品种现已达三千多种，涵盖水泵、电机、电气柜、阀门、成套设备、机械配件等系列，其产品性价比合理，质量可靠，广泛应用于市政、水利、建筑、消防、电力、环保、石油、化工、矿业、医药等领域。集团销售业绩每年均为行业前茅。

集团公司目前拥有大型水泵测试中心、三坐标测量仪、动静平衡测量仪、激光快速成型仪、多功能抛丸机、自动氩弧焊机、大型立车、大型磨床、数控机床集群等各种国内外先进的生产检测设备2000台套以上。现有员工4500余人，大中专

Shanghai Liancheng (Group) Co., Ltd is a domestic well-known large group enterprise and its multiple operations cover the research and production of pumps, valves and fluid transportation systems, electric control systems and environmental protection equipments.

After ten years development, the group holds five industrial parks in Shanghai, Jiangsu and Zhejiang etc. areas where the economy has been greatly developed, covering a total land area of 550 thousand square meters. Its headquarters is located at Fengbang Industrial Park and under it there are several wholly owned subsidiaries and holding companies: Shanghai Liancheng Pump Manufacturing Co. Ltd, Shanghai Liancheng Motor Co. Ltd, Shanghai Liancheng Valve Co. Ltd, Shanghai Liancheng Group Logistics Co. Ltd, Shanghai Liancheng Group General Equipment Installation Engineering, Shanghai Ametek Industrial Equipment Co. Ltd, Shanghai Liancheng Group Environment Engineering Equipment Co. Ltd and Shanghai Liancheng Group Suzhou Co. Ltd, with the registered capital up to 5.38 billion CNY, the total capital up to tens of billion CNY and the product categories up to more than 3000, ranging from water pump, motor, electric cabinet, valve, completed equipment, mechanical accessories etc. series, and, because of the reasonable performance-price and reliable quality, broadly used in the fields of municipal works, water conservancy, architecture, fire-fighting, electric power, environmental protection, petroleum, chemical industry, mining and medicine. The sales incoming of this group ranks first in the industry every year.

The group company now holds a large pump test center, a three-coordinate measurer, a dynamic-static measurer, a quick laser shaping instrument, a multi-functional shot-blasting machine, an automatic argon-arc welder, a large lathe, a large mill, numerical control machine tools etc. more than 2000 sets of various nationwide and world wide advanced production and detection facilities and over

生占72.6%，其中中级职称者475人、高级职称者78人、国家级专家19人、教授6人。每年都投入大量资金用于技术创新、产品开发和设备引进，持有国家专利技术近达600余项，每年均参与大量的国家及行业标准起草及编写工作，涉及水利、化工、消防、城市供水等各领域的产品及技术标准累计达数十部。集团建有完善的销售服务网络，设有30余家分公司及200多个分支机构，拥有一支2800多人的专业销售服务队伍，为广大客户提供专业的技术支持与优良的营销服务。

集团通过了ISO9001、ISO14001、OHSAS18001等国际管理体系认证，全面推行ERP信息化管理；先后获得国家和行业颁发的工业、消防、煤矿、石油化工等重要领域的工业产品生产许可证、CCC中国国家强制性产品认证、CQC产品认证、CE认证、卫生许可批件、MA煤安认证、SMA计量合格认证、节能认证、节水认证、采用国际标准认证、进出口企业资格等生产经营资质；并获得了“国家级创新型企业”、“中国驰名商标”、“上海市著名商标”、“上海市名牌产品”、“中国著名品牌”、“大型企业”、“国家首批水泵节能认证通过企业”、“上海市高新技术企业”、上海“市级企业技术中心”、“上海市知识产权示范企业”、“上海市民营制造业50强”、“上海市百强工业企业”、“国家标准起草单位”、“中国水工业十大民族品牌”等众多的社会荣誉。

随着连成集团的永续经营，连成产品得到了用户广泛认可，目前拥有：国家体育场“鸟巢”、国家大剧院、上海世博工程、首都机场、广州白云机场、上海地铁、西安地铁、沈阳地铁、香港供水工程深圳沙湾泵站、澳门供水工程珠海平岗泵站、黄河灌溉山西夹马口泵站、山西省西范泵站、广东云安六都泵站、黄河小浪底水利工程、宁夏扬黄灌溉工程、鄂尔多斯城市饮水工程、秦山核电、岭奥核电、国电集团、大唐电厂、华能电厂、宝钢、首钢、唐钢、太钢、鞍钢、新疆八一钢铁、大庆油田、青海盐湖钾盐项目、山西焦化、潞安矿业、陕西咸阳化工、中海油惠州炼油项目、清华大学、海尔集团和安哥拉农业排灌工程、缅甸国家农业灌溉项目，以及核电、火电、水电、钢铁、油田、焦化、矿业、化工、炼油等一大批国内、外样板工程。在通用、拜耳、西门子、大众、可口可乐等国际知名企业在华的工程均采用了连成集团的产品。

连成集团矢志于打造世界顶级流体处理工业企业，秉承永远珍惜人与自然和谐关系、为提高人类生活质量不懈努力的宗旨，为实现“百年连成”远大目标，一直致力于环保型、节能型产品的研发与制造，为民族企业的振兴与发展不懈努力！

水，因连成至高致远……！



中国驰名商标



上海市著名商标



国家级创新型企业

4500 staff members, of which 72.6% are graduated from colleges and technical schools, 475 hold a junior title, 78 senior, 19 national experts and 6 professors. Every year this group puts a number of capital for technical innovation, product development and equipment import and, up till now, holds up to 600 national patent technologies and takes part in the draft-out and edition of both national and industrial standards, in total of tens of the product and technical standards covering water conservancy, chemical industry, fire-fighting, city water supply etc. fields. This group has set up a complete sales and service networks, comprised of 30 branches, more than 200 sub-organs and a group of 2800 special salesmen and servicemen, to provide the clients with special technical support and good business services.

Accredited to ISO9001, ISO14001, OHSAS18001 etc. international management system arrivals, this group is striving to implement ERP Information Management and has got the industrial production licenses in industry, fire-fighting, petrochemical, and mining etc. important fields issued by the state and the industry organization and the qualification as an I/E enterprise, been accredited to CCC, CQC product, CE, sanitation permit, MA mine safety, SMA gauging qualification, energy-saving, CCS, adoption of international standard etc. lots of approvals and awarded with the social honors such as: National-grade innovative brand-new enterprise, Chinese Famous Trademark, Shanghai Well-Known Trademark, Products of a famous brand of Shanghai, Famous brand of China A large enterprise, Enterprise in the first lot passing the pump energy-saving approval, A high-tech enterprise of Shanghai, Technical center of the enterprise in the city's level of Shanghai, An example enterprise for the intellectual property of Shanghai, One of the 50 powerful enterprises of Shanghai, One of the private technical enterprises of Shanghai, An enterprise qualified for the draft-out of the national standard, Ten national brands in the water industry of China and so on.

With the steady development of Liancheng Group, the products made therein have been greatly accepted by the users and now available with: the National Stadium Birdnest, the National Theatre, Shanghai Expo, the Capital Airport, Guangzhou Baiyun Airport, Shanghai Metro, Shenyang Metro, Xi'an Metro, Hongkong Water Supply Project Shenzhen Shawan Pump Station, Macao Water Supply Project Zhuhai Pinggang Pump Station, Huanghe River Irrigation Shanxi Jiamakou Pump Station, Shanxi Xifan Pump Station, Guangdong Yun'an Liudu Pump Station, Xiaolangdi Water Conservancy Project in Yellow River, Ningxia Yanghuang Irrigation Engineering, E'erduosi City Drinking Project, Qinghai Salt Lake Sylvine Project, Qinshan Nuclear Power, Ling'ao Nuclear Power, National Power Group, Huaneng Power Plant, Datang Power Plant, Baoshan Steel, Capital Steel, Tai Steel, Anshan Steel, Xinjiang Bayi Steel, Daqing Oil Field, Shanxi Coking, Lu'an Mining Industry, Shanxi Xianyang Chemical Industry, China Marine Fuel Huizhou Refinery Project, Tsinghua University, Haier Group and Angola Agriculture Drainage and Irrigation Project, the national agricultural irrigation project of Burma, as well as nuclear power, thermal power, hydro-power, steel-iron, oil field, coking, mining, chemical, refinery, and in the projects set inside of China by GE, Bayer, Siemens, Volkswagen, Coca-cola etc. worldwide famous enterprises.

Liancheng Group has been trying its best to make itself a top fluid treatment enterprise in the world and follow such a concept as cherishing the harmony between human and nature forever and, to improve the people's living level and realize the great goal of a century-lasting Liancheng, making efforts for both development and manufacture of the environmental-protection and energy-saving products and for both promotion and progression of the national enterprises!

Water, flowing high and far to the utmost just because of Liancheng.....

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WQ SERIES SUBMERSIBLE SEWAGE PUMP

产品概述 Outline of the product

上海连成研制开发的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，排送固体物和防纤维缠绕的性能好，高效节能，可靠性；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 Liancheng absorbs 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，排送含固体物和长纤维的污水、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≤1050kg/m³，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。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 ≤1050kg/m³ and the PH value is within 4-10.
2. For the lowest running liquid level, see ▼ in the installation 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通道叶轮，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，极少数双通道叶轮。泵体流道宽敞，固体物容易通过，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.

WQ 系列潜水排污泵

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.

WQ SERIES SUBMERSIBLE SEWAGE PUMP

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。

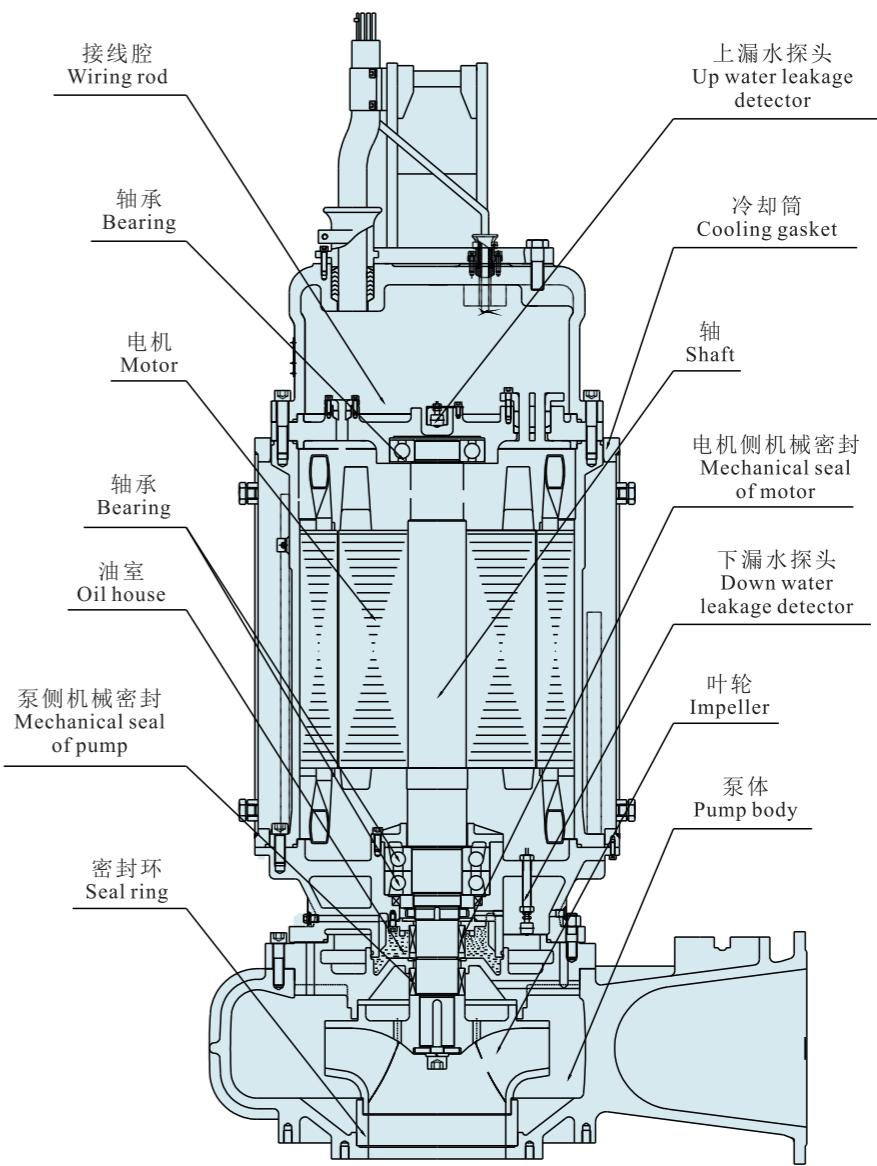
8、泵潜水工作，基本不存在噪声问题，有利于保护环境。

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，绝缘材料的极限工件温度155℃。绕组内嵌有过热保护元件，通过电控柜对电机进行保护。

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,

WQ SERIES SUBMERSIBLE SEWAGE PUMP

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、下浮子开关，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。漏水探头一端的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）并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进入空腔，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

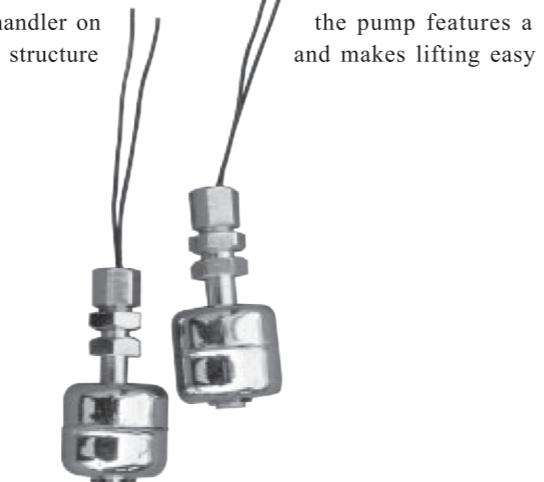
Used to check water-leak. The leads from the two electric poles on one end of it are connected to the electric control cabinet via a cable and the two electric poles will be conducted through, once the water leaked into the oil chamber from the mechanical seal by the motor reaches a certain degree or 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 and makes lifting easy



WQ SERIES SUBMERSIBLE SEWAGE PUMP

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

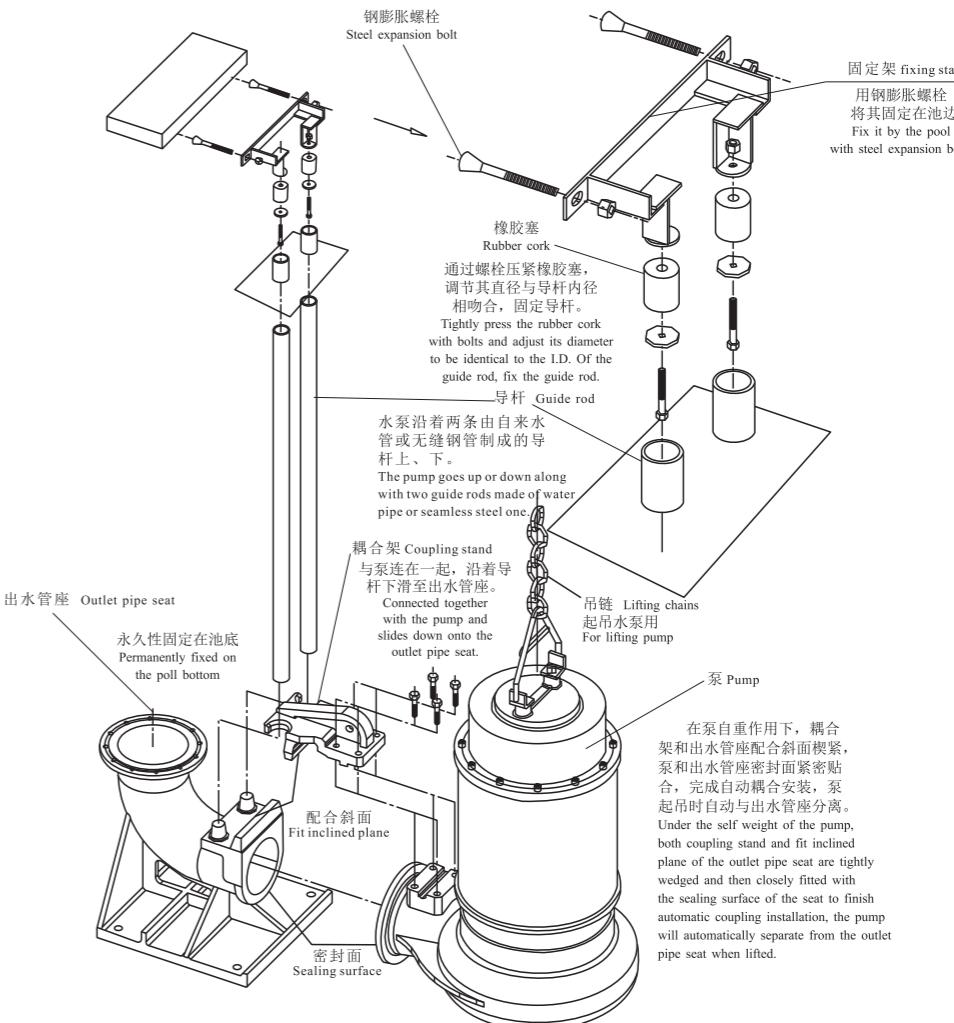
零件 Part	泵体、叶轮、泵盖 Pump casing, impeller, pump cover	电机、机壳 Motor, casing	轴 Shaft	机械密封材料 Materials of mechanical seal			
				材料 Material	HT200 或球墨铸铁 or ductile iron	2Cr13 3Cr13	电机侧摩擦副 Frictional pair by the motor
					石墨/碳化硅 Graphite/Silicon carbide 石墨/碳化钨 Graphite/Tungsten carbide	石墨/碳化硅 Graphite/Silicon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

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

1、自动耦合式安装 Auto-coupled installation

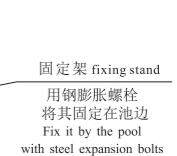
WQ系列潜水排污泵有自动耦合式安装、固定式干式安装、固定式底座安装、软管移动式安装、硬管移动式安装、无论哪种安装方式都很简便。

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.



WQ 系列潜水排污泵

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，无须用常规的坚固件连接，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.

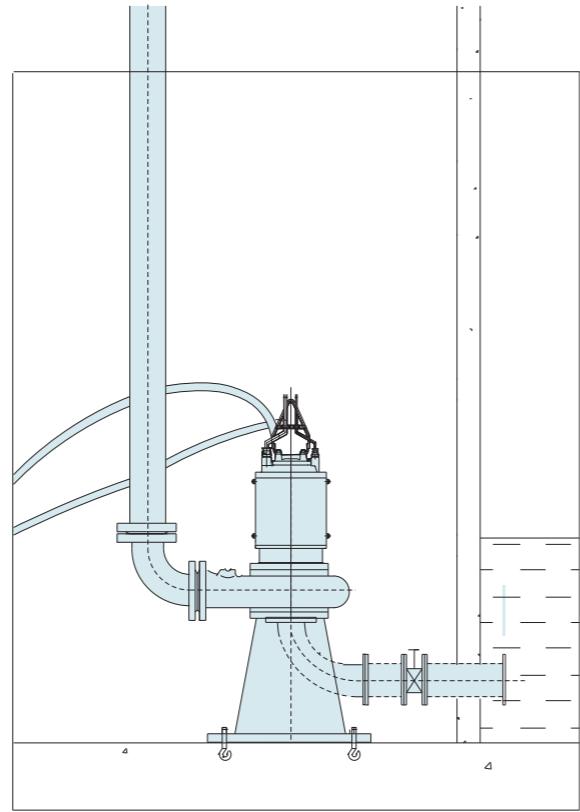
Use of the pump will not be affected, even if the pump house is submerged, as it is submersible.

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.



WQ SERIES SUBMERSIBLE SEWAGE PUMP

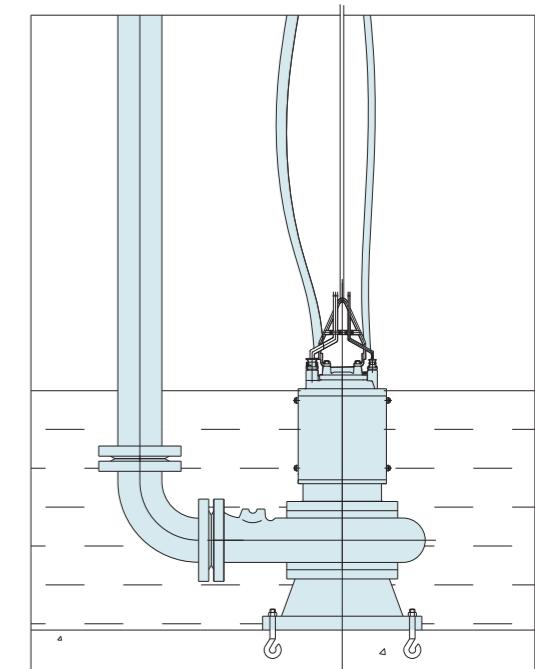
固定式湿式安装

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.

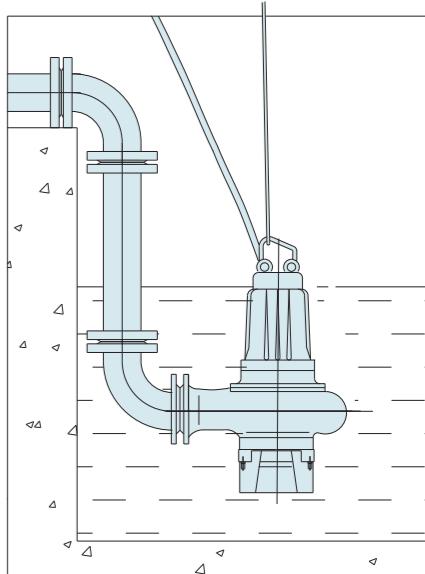
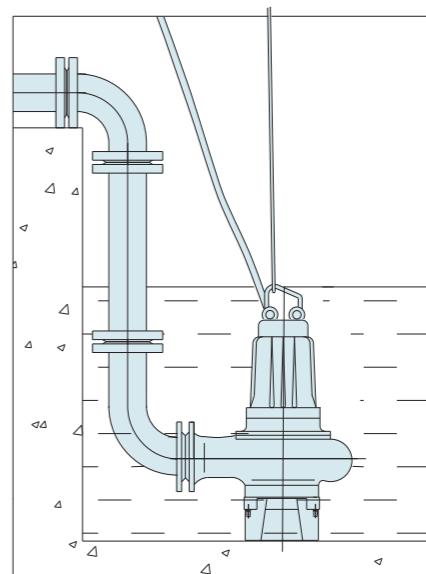
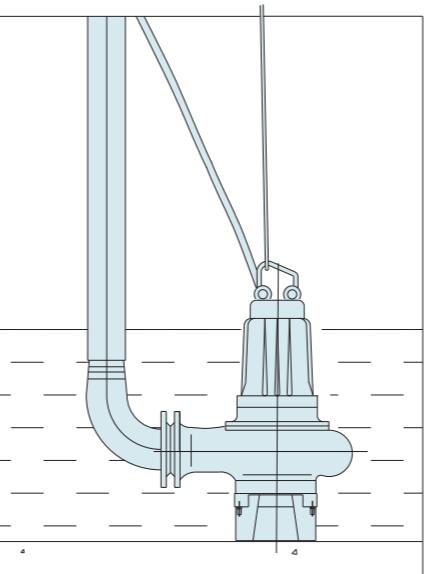


移动式安装

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条引接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。

备注：

由于WQP、WQG叶轮形式为半开式，水力效率较差，所以选型时参数、功率需另行确定。

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 (Δ) 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- Δ start or that with an internal electronic soft starter; 2. Use the Δ 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.

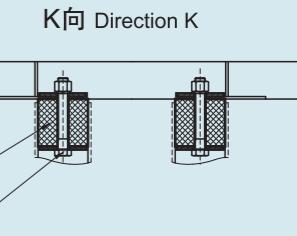
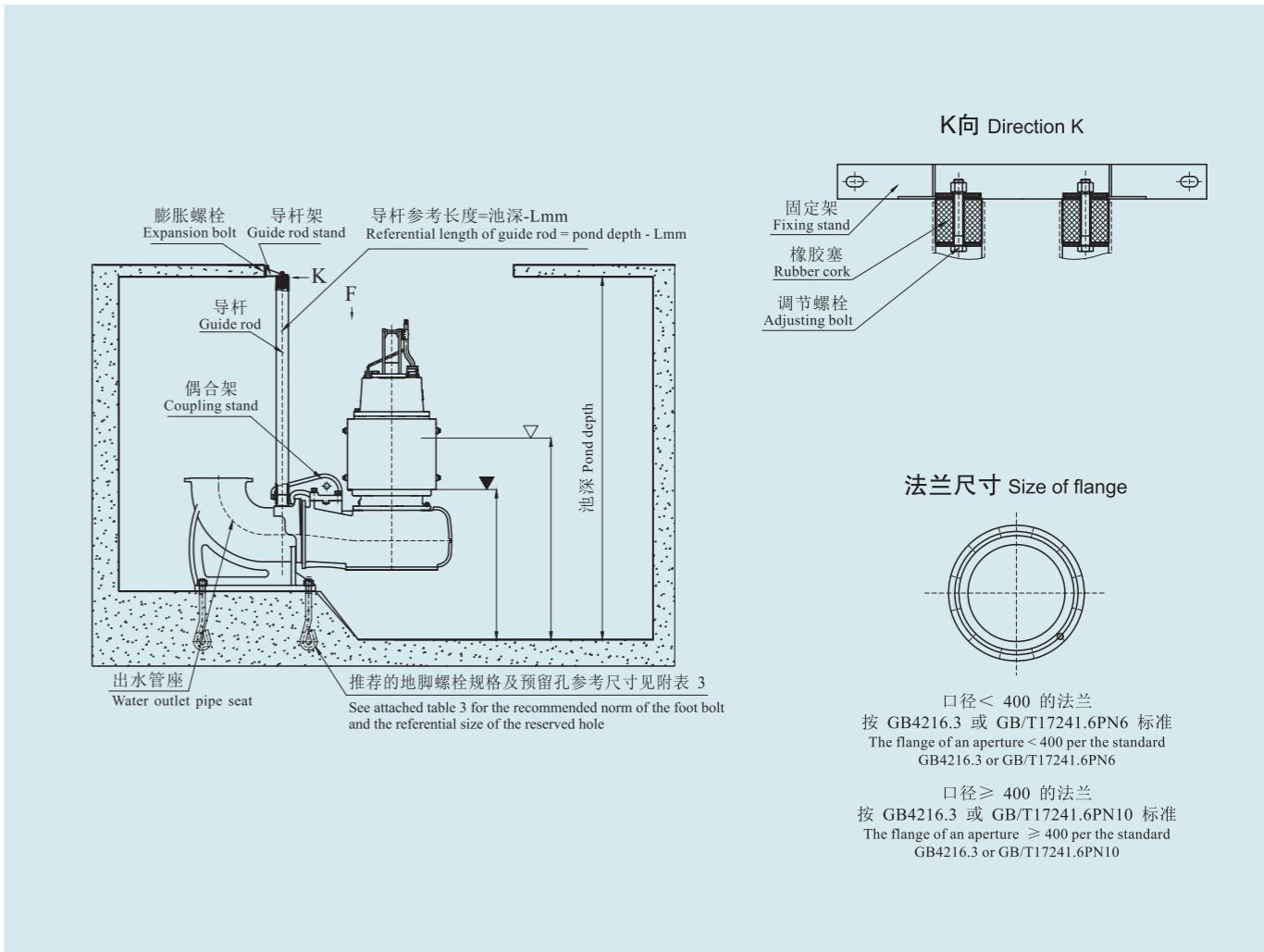
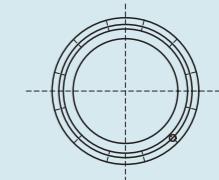
Note:

As the WQP and WQG impellers are half-open with low hydraulic efficiency, parameters and power shall be determined separately when selecting models.

WQ SERIES SUBMERSIBLE SEWAGE 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、固定式湿式安装的安装尺寸图的说明

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

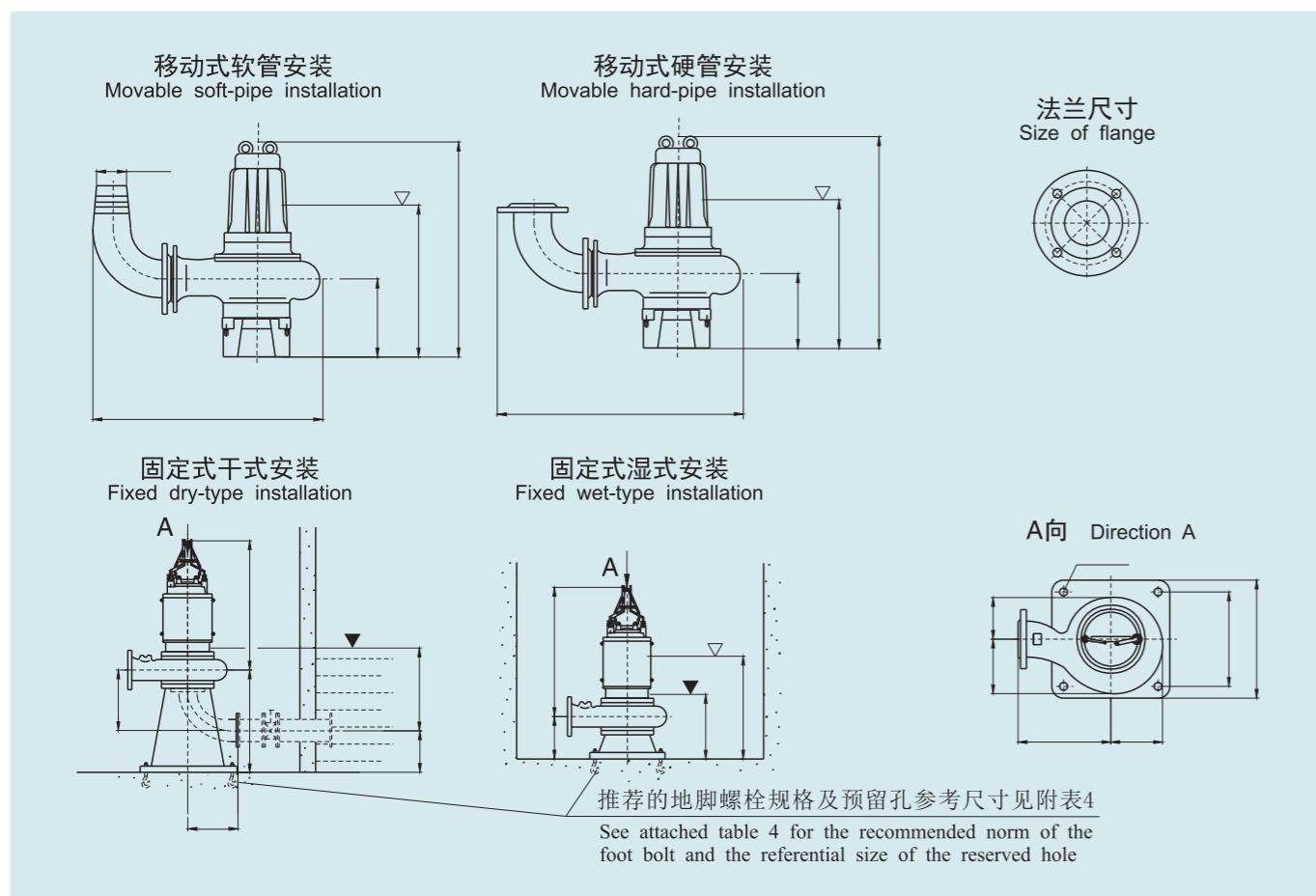
**自动耦合式安装
Auto-coupled installation**

法兰尺寸 Size of flange


口径 < 400 的法兰
按 GB4216.3 或 GB/T17241.6PN6 标准
The flange of an aperture < 400 per the standard
GB4216.3 or GB/T17241.6PN6

口径 ≥ 400 的法兰
按 GB4216.3 或 GB/T17241.6PN10 标准
The flange of an aperture ≥ 400 per the standard
GB4216.3 or GB/T17241.6PN10

- 所有固定架都可以用M16×150I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。
- 应按“池深”计算导杆的长度。有关导杆的资料见附表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.
- 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.



3. ▽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。
4. 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。
5. 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。
6. 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。

3. ▽ 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.
4. 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.
5. 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.
6. 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.

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7. ▽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。
8. 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。
7. ▽ 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.
8. 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）±15mm 以下为L尺寸 Referential length of guide rod = (Pond depth L) ±15mm Below as the size of L
50	1"/34×3.2	210
65		230
80		270
100		325
150		480
200		600
250		700
300		850
350		970
400		1130
500	2"/60×3.5	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	M24×500	6	100×100×550	
200				
250				
300			130×130×700	
350	M30×630			
400				
500			150×150×700	
600	M36×630			

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)			100×100×450	
10	80、100、150 (30 kW及以下 and below)			130×130×700	
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)			150×150×700	
12	350 (90 kW及以下 and below)	M36×630			
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

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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、缺相保护功能甚至连熔断丝也不装，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

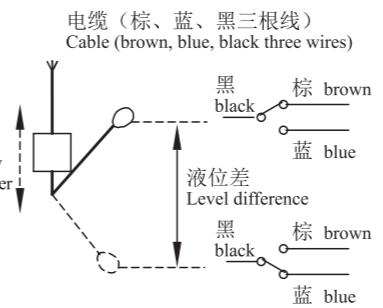


图 Fig. 1

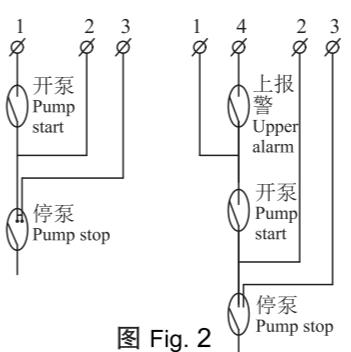


图 Fig. 2

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

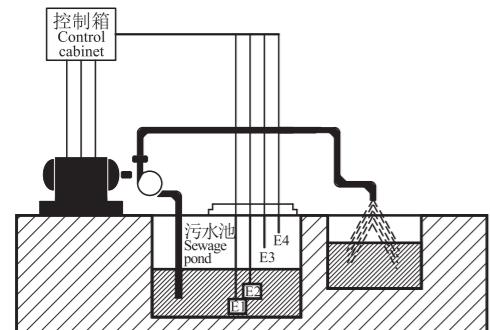
When the floating ball floats, both black and brown wires get connected, start the pump;
When the floating ball becomes pendent, both black and brown wires are cut off, stop the pump;

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。不论水位因何种原因达到 E4 时，超水位报警铃响，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.

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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.

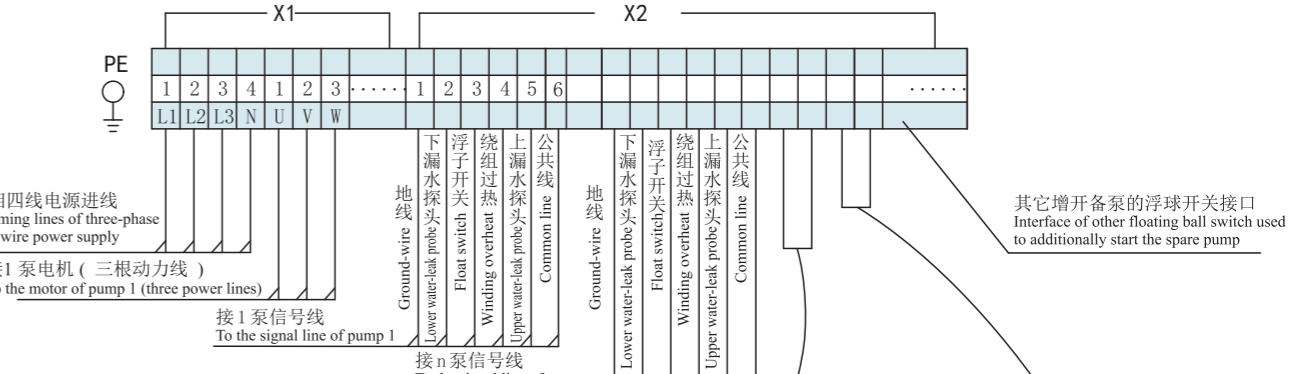
潜污泵专用电控柜原理图

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

电控柜端子接口举例
Example of the terminal interface of electric control cabinet



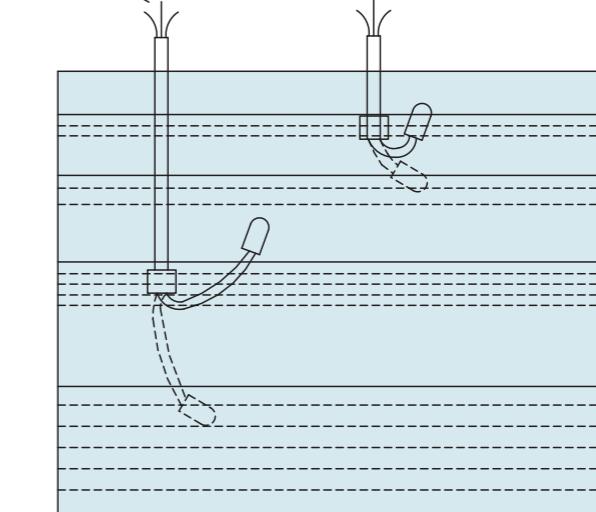
主泵启动浮球开关

控制主泵启动
Floating ball switch starting the primary pump
Control the start of the primary pump

黑、棕线芯接电控柜，蓝色线芯包扎绝缘
Both black and brown cores are connected into the electric control cabinet, with the blue one wrapped and insulated

超高水位浮球开关
控制增开备泵的启、停
Extra-high level floating ball switch
Control start and stop of the additionally started spare pump

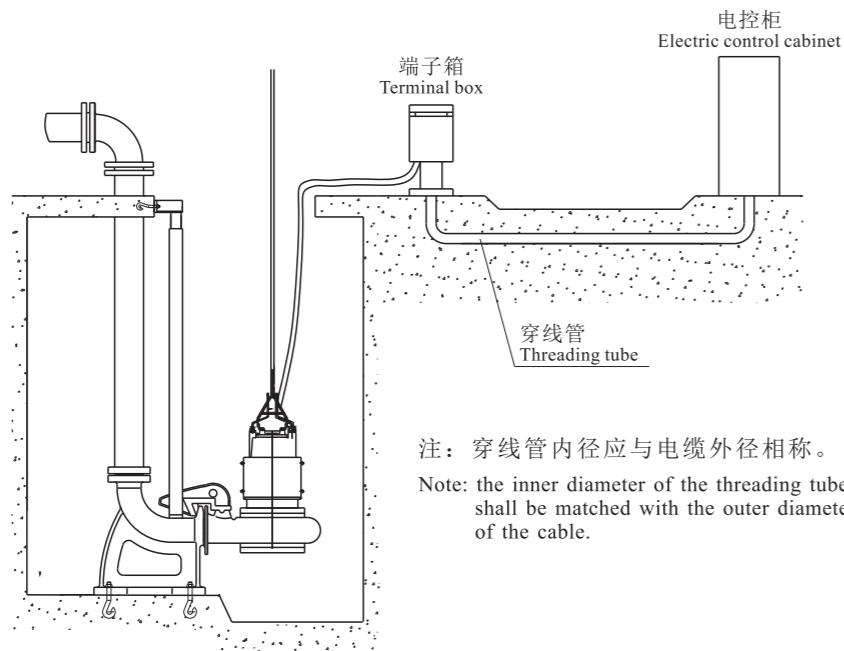
黑、棕线芯接电控柜，蓝色线芯包扎绝缘
Both black and brown cores are connected into the electric control cabinet, with the blue one wrapped and insulated



浮球开关设置举例
Example of setting the floating ball switch

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



注：穿线管内径应与电缆外径相称。

Note: the inner diameter of the threading tube shall be matched with the outer diameter of the cable.

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顶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)	132(8P、10P)	43(两根 two)
11、15(2P、4P)	16.5	13.5	160、200(8P) 185(4P、6P、8P)	48(两根 two)
18.5、22(2P、4P)	25	13.5	185(10P)200(10P) 220	54(两根 two)
30(4P、6P、8P) 37(4P、6P)	28	13.5	250(8P)280(8P)	57(两根 two)
37(8P) 45(4P、6P、8P) 55(4P、6P)	32	13.5	315 355	63(两根 two)

WQ SERIES SUBMERSIBLE SEWAGE PUMP
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.

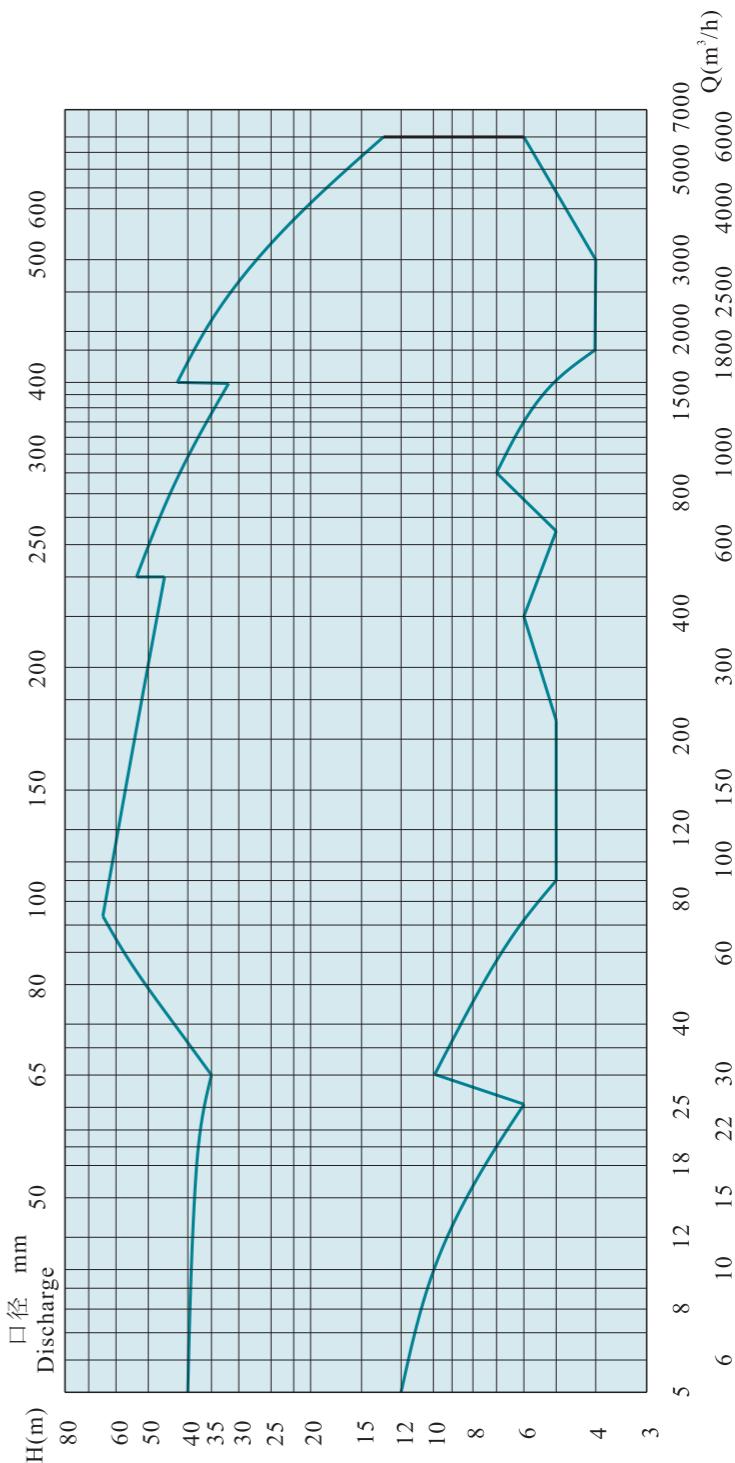
For the movable hard-pipe installation, one hard pipe joint is supplied in completion with each pump.

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	
		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	
成套供应件 Parts in completed supply	主泵 Primary pump	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	硬管接头 (1个/台) Hard pipe joint (one/each pump)				<input type="radio"/>
	软管接头 (1个/台) Soft pipe joint (one/each pump)			<input type="radio"/>	
	自动耦合装置 Auto-coupling	<input type="radio"/>			
	底座 (1个/台) Foundation (one/each pump)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
选购件 Options	电控柜 Electric control cabinet	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	反法兰 Reversed flange	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	拦污栅 Trash rack	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 定制 Made to order
	启闭机 Hoist	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 定制 Made to order
	矩形闸门 Rectangle gate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 定制 Made to order
	端子箱 Terminal box	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	E液位F浮球开关 E level F floating ball switch	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	闸E蝶F阀 Butterfly valve of gate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	止回阀 Check valve	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	地脚螺栓 Foot bolt	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>
	软管 Soft pipe				
	吊泵用吊链 Lifting chains for lifting pump	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
备件 Spare parts	叶轮 Impeller	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	密封环 Seal ring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/> 7.5kW以下无 密封环
	轴承 Bearing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	机械密封 Mechanical seal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	O形密封圈 O-seal ring	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

WQ型泵型谱图 WQ TYPE ATLAS OF STYLE


WQ型泵性能参数 WQ TYPE PUMP PERFORMANCE

序号 No.	型号 Type	排出口径 Outlet diameter (mm)	流量 Capacity		扬程 Head (m)	转速 Speed (r/min)	功率 Power (kW)	效率 Efficiency (%)	重量 Weight (Kg)
			(m³/h)	(L/s)					
1	50WQ15-8-0.75	50	10 15 20	2.8 4.2 5.6	10 8 7	2825	0.75	48 52 56	40
2	50WQ15-12-1.1	50	10 15 20	2.8 4.2 5.6	14 12 10	2825	1.1	48 52 56	40.5
3	50WQ15-16-1.5	50	10 15 20	2.8 4.5 6.9	18 16 10	2840	1.5	48 52 56	45
4	50WQ15-22-2.2	50	10 15 20	2.8 4.2 6.9	25 22 16	2840	2.2	48 52 56	47
5	50WQ15-30-3	50	10 15 20	2.8 4.2 6.9	33 30 20	2880	3	45 50 54	76
6	50WQ25-25-4	50	20 25 40	5.6 6.9 11.1	28 25 18	2880	4	43 48 53	80
7	50WQ25-32-5.5	50	20 25 40	5.6 6.9 11.1	35 32 25	1440	5.5	43 48 55	135
8	50WQ25-36-7.5	50	20 25 40	5.6 6.9 11.1	38 36 33	1440	7.5	43 48 55	140
9	65WQ30-10-2.2	65	20 30 45	5.6 8.3 12.5	12 10 8	1420	2.2	50 62 64	85
10	65WQ30-15-3	65	20 30 45	5.6 8.3 12.5	17 15 12	1420	3	50 62 64	87
11	65WQ30-22-4	65	20 30 45	5.6 8.3 12.5	24 22 16	1440	4	44 52 57	80
12	65WQ30-30-5.5	65	20 30 45	5.6 8.3 12.5	32 30 22	1440	5.5	44 52 57	141
13	65WQ30-35-7.5	65	20 30 45	5.6 8.3 12.5	37 35 30	1440	7.5	44 50 57	146
14	80WQ50-8-2.2	80	40 50 75	11.1 13.9 20.8	10 8 6	1420	2.2	56 60 63	95
15	80WQ50-10-3	80	40 50 75	11.1 13.9 20.8	13 10 8	1420	3	56 60 62	101
16	80WQ50-15-4	80	40 50 75	11.1 13.9 20.8	18 15 10	1440	4	55 58 60	107
17	80WQ50-20-5.5	80	40 50 75	11.1 13.9 20.8	23 20 16	1440	5.5	48 55 66	143
18	80WQ50-25-7.5	80	40 50 75	11.1 13.9 20.8	28 25 21	1440	7.5	48 55 63	148
19	80WQ50-35-11	80	40 50 75	11.1 13.9 20.8	40 35 27	2900	11	48 55 63	268
20	80WQ50-40-15	80	40 50 75	11.1 13.9 20.8	42 40 37	2900	15	46 52 60	278

WQ SERIES SUBMERSIBLE SEWAGE PUMP
WQ型泵性能参数 WQ TYPE PUMP PERFORMANCE

序号 No.	型号 Type	排出口径 Outlet diameter (mm)	流量 Capacity		扬程 Head (m)	转速 Speed (r/min)	功率 Power (kW)	效率 Efficiency (%)	重量 Weight (Kg)
			(m³/h)	(L/s)					
21	80WQ50-64-18.5	80	40 50 65	11.1 13.9 18.1	65	2900	18.5	48 56 62	288
22	100WQ80-7-3	100	65 80 120	18.1 22.2 33.3	8 7 5	1420	3	62 64 60	108
23	100WQ80-10-4	100	65 80 120	18.1 22.2 33.3	12 10 7	1440	4	62 64 62	110
24	100WQ80-13-5.5	100	65 80 120	18.1 22.2 33.3	15 13 10	1440	5.5	58 64 67	146
25	100WQ80-18-7.5	100	65 80 120	18.1 22.2 33.3	21 18 13	1440	7.5	58 64 67	153
26	100WQ80-24-11	100	65 80 120	18.1 22.2 33.3	28 24 20	2900	11	58 64 67	268
27	100WQ80-32-15	100	65 80 120	18.1 22.2 33.3	35 32 25	2900	15	54 58 62	278
28	100WQ80-36-18.5	100	65 80 120	18.1 22.2 33.3	40 36 30	2900	18.5	50 55 60	293
29	100WQ80-40-22	100	65 80 120	18.1 22.2 33.3	45 40 35	2900	22	50 55 60	353
30	150WQ150-7-5.5	150	100 150 220	27.8 41.7 61.1	9 7 5	1440	5.5	63 72 70	172
31	150WQ150-10-7.5	150	100 150 220	27.8 41.7 61.1	12 10 7	1440	7.5	63 72 70	180
32	150WQ150-15-11	150	100 150 220	27.8 41.7 61.1	18 15 11	1460	11	67 72 68	308
33	150WQ150-20-15	150	100 150 220	27.8 41.7 61.1	23 20 17	1460	15	60 68 64	323
34	150WQ150-25-18.5	150	100 150 220	27.8 41.7 61.1	28 25 19	1470	18.5	60 68 64	430
35	150WQ150-30-22	150	100 150 200	27.8 41.7 55.6	33 30 25	1470	22	60 65 68	445
36	150WQ150-40-30	150	100 150 200	27.8 41.7 55.6	42 40 33	1470	30	60 65 68	555
37	150WQ150-45-37	150	100 150 200	27.8 41.7 55.6	47 45 38	1470	37	55 62 65	650
38	150WQ150-50-45	150	100 150 200	27.8 41.7 55.6	52 50 47	1470	45	55 62 65	850
39	150WQ150-60-55	150	80 150 150	22.2 41.7 41.7	62 60 56	1470	55	53 60 63	970
40	200WQ300-7-11	200	250 300 400	69.4 83.3 111.1	8 7 6	1460	11	72 74 69	375
41	200WQ300-10-15	200	250 300 400	69.4 83.3 111.1	11 10 8	1460	15	72 74 69	400

WQ型泵性能参数 WQ TYPE PUMP PERFORMANCE

序号 No.	型号 Type	排出口径 Outlet diameter (mm)	流量 Capacity		扬程 Head (m)	转速 Speed (r/min)	功率 Power (kW)	效率 Efficiency (%)	重量 Weight (Kg)
			(m³/h)	(L/s)					
43	200WQ300-13-18.5	200	250 300 400	69.4 83.3 111.1	15 13 10	1470	18.5	66 68 65	465
44	200WQ300-15-22	200	250 300 400	69.4 83.3 111.1	17 15 13	1470	22	66 68 65	475
45	200WQ300-20-30	200	250 300 400	69.4 83.3 111.1	22 20 17	980	30	66 67 67	965
46	200WQ300-20-30(G)	200	250 300 400	69.4 83.3 111.1	22 20 17	1470	30	66 67 67	780
47	200WQ300-25-37	200	250 300 400	69.4 83.3 111.1	27 25 23	980	37	66 67 68	1010
48	200WQ300-25-37(G)	200	250 300 400	69.4 83.3 111.1	27 25 23	1475	37	66 67 68	840
49	200WQ400-27-45	200	250 400 500	69.4 111.1 138.9	35 27 24	1480	45	65 74 78	980
50	200WQ400-34-55	200	250 400 500	69.4 111.1 138.9	39 34 30	1480	55	65 74 78	1005
51	200WQ400-40-75	200	250 400 500	69.4 111.1 138.9	44 40 35	1480	75	62 70.5 72	1215
52	200WQ400-48-90	200	250 400 500	69.4 111.1 138.9	50 48 44	1480	90	62 70.5 72	1400
53	250WQ400-7-15	250	300 400 600	83.3 111.1 166.7	9 7 5	1460	15	75 69 62	430
54	250WQ400-10-18.5	250	300 400 600	83.3 111.1 166.7	12 10 7	1470	18.5	68 75 70	480
55	250WQ400-13-22	250	300 400 600	83.3 111.1 166.7	16 13 9	1470	22	68 73 60	488
56	250WQ500-12-30	250	400 500 700	111.1 138.9 194.4	15 12 8	980	30	70 72 78	970
57	250WQ500-12-30(G)	250	400 500 700	111.1 138.9 194.4	15 12 8	1470	30	70 72 78	800
58	250WQ500-16-37	250	400 500 700	111.1 138.9 194.4	18 16 14	980	37	70 72 78	1065
59	250WQ500-16-37(G)	250	400 500 700	111.1 138.9 194.4	18 16 14	1475	37	70 72 78	875
60	250WQ500-20-45	250	400 500 700	111.1 138.9 194.4	22 20 16	980	45	70 72 78	1150
61	250WQ500-20-45(G)	250	400 500 700	111.1 138.9 194.4	22 20 16	1475	45	70 72 78	1005
62	250WQ500-25-55	250	400 500 700	111.1 138.9 194.4	28 25 19	980	55	72 74 72	1225
63	250WQ500-25-55(G)	250	400 500 700	111.1 138.9 194.4	28 25 19	1480	55	72 74 72	1025
64	250WQ600-28-75	250	500 600 800	138.9 166.7 222.2	31 28 23	1480	75	70 73 75	1500
65	250WQ600-34-90	250	500 600 800	138.9 166.7 222.2	37 34 27	1480	90	70 73 75	1550
66	250WQ600-40-110	250	500 600 800	138.9 166.7 222.2	43 40 33	1480	110	68 70 73	1605
67	250WQ600-50-132	250	500 600 800	138.9 166.7 222.2	53 50 40	1480	132	68 70 73	1900

WQ SERIES SUBMERSIBLE SEWAGE PUMP
WQ型泵性能参数 WQ TYPE PUMP PERFORMANCE

序号 No.	型号 Type	排出口径 Outlet diameter (mm)	流量 Capacity		扬程 Head (m)	转速 Speed (r/min)	功率 Power (kW)	效率 Efficiency (%)	重量 Weight (Kg)
			(m³/h)	(L/s)					
68	300WQ600-6-18.5	300	500 600 750	138.9 166.7 208.3	7 6 5	1470	18.5	69 65 61	555
69	300WQ600-7-22	300	500 600 750	138.9 166.7 208.3	8 7 6	1470	22	69 65 61	565
70	300WQ700-11-30	300	550 700 1000	152.8 194.4 277.8	13 11 8	980	30	72 78 77	1040
71	300WQ700-11-30(G)	300	550 700 1000	152.8 194.4 277.8	13 11 8	1470	30	72 78 77	880
72	300WQ700-14-37	300	550 700 1000	152.8 194.4 277.8	16 14 10	980	37	72 78 77	1080
73	300WQ700-14-37(G)	300	550 700 1000	152.8 194.4 277.8	16 14 10	1475	37	72 78 77	920
74	300WQ700-16-45	300	550 700 1000	152.8 194.4 277.8	18 16 12	980	45	72 78 77	1190
75	300WQ700-16-45(G)	300	550 700 1000	152.8 194.4 277.8	18 16 12	1475	55	72 78 77	1015
76	300WQ700-19-55	300	550 700 1000	152.8 194.4 277.8	21 19 14	980	75	70 75 73	1230
77	300WQ700-19-55(G)	300	550 700 1000	152.8 194.4 277.8	21 19 14	1480	90	70 75 73	1050
78	300WQ1000-20-75	300	800 1000 1400	222.2 277.8 388.9	23 20 15	990	15	75 82 80	1550
79	300WQ1000-24-90	300	800 1000 1400	222.2 277.8 388.9	27 24 18	990	18.5	75 82 80	1700
80	300WQ1000-28-110	300	800 1000 1400	222.2 277.8 388.9	31 28 20	990	22	75 82 80	1800
81	300WQ1000-35-132	300	800 1000 1400	222.2 277.8 388.9	38 35 27	1480	30	75 80 82	1900
82	350WQ1200-6-30	300	1000 1200 1500	277.8 333.3 416.7	7 6 5	730	30	75 72 70	1240
83	350WQ1200-8-37	350	1000 1200 1500	277.8 333.3 416.7	9 8 6	740	37	76 75 70	1365
84	350WQ1100-10-45	350	900 1100 1500	250 305.6 416.7	11 10 7	740	37	67 70 68	1400
85	350WQ1100-12-55	350	900 1100 1500	250 305.6 416.7	14 12 8	740	45	69 71 66	1500
86	350WQ1100-16-75	350	900 1100 1500	250 305.6 416.7	19 16 12	980	45	70 75 72	1600
87	350WQ1100-20-90	350	900 1100 1500	250 305.6 416.7	24 20 15	980	55	70 75 72	1800
88	350WQ1100-25-110	350	900						

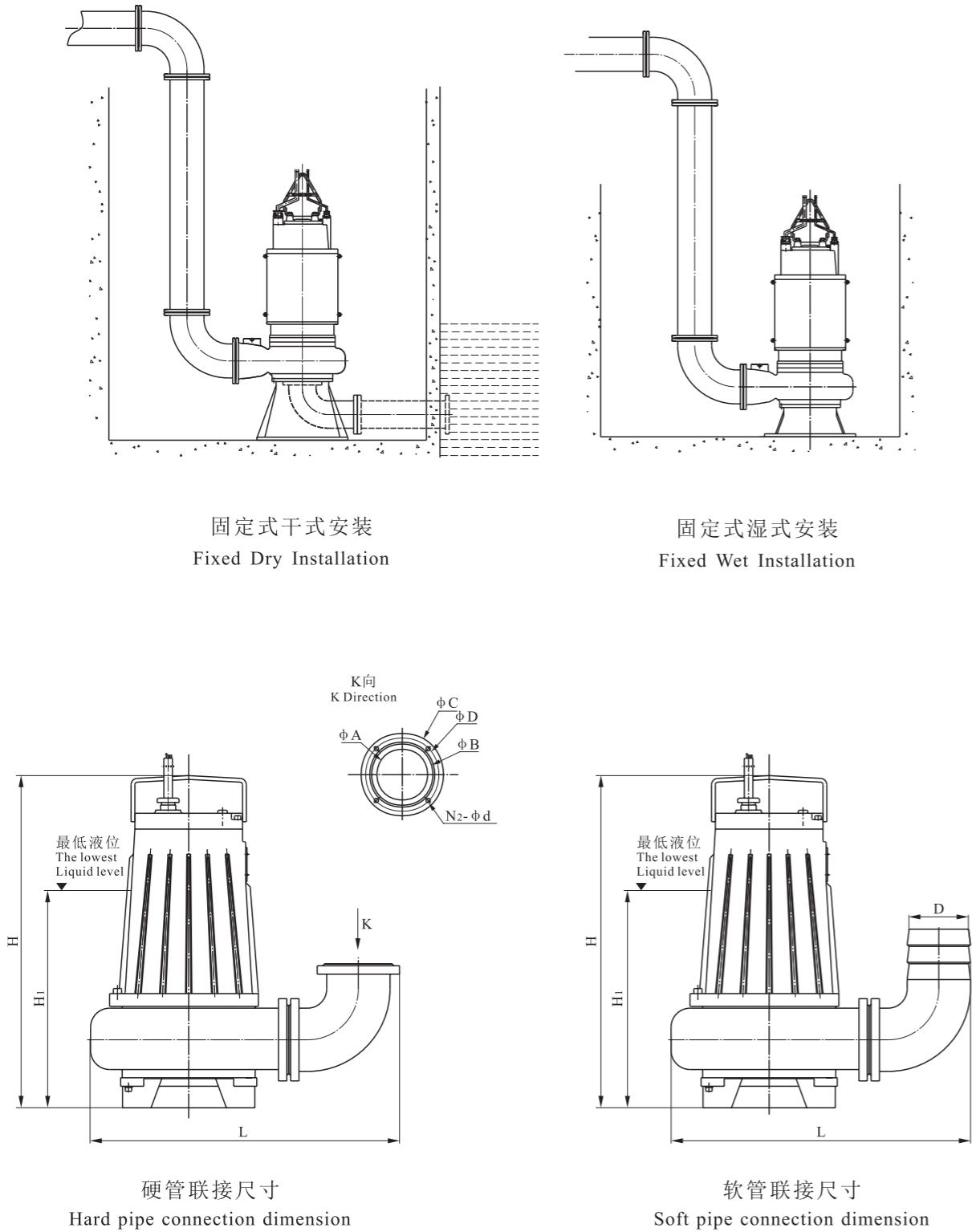
WQ型泵性能参数 WQ TYPE PUMP PERFORMANCE

序号 No.	型号 Type	排出口径 Outlet diameter (mm)	流量 Capacity		扬程 Head (m)	转速 Speed (r/min)	功率 Power (kW)	效率 Efficiency (%)	重量 Weight (Kg)
			(m³/h)	(L/s)					
93	350WQ1500-35-220	350	1200 1500 2000	333.3 416.7 555.6	40 35 27	740	220	75 80 78	3050
94	350WQ1500-40-250	350	1200 1500 2000	333.3 416.7 555.6	42 40 33	740	250	78 80 82	3250
95	350WQ1800-40-280	350	1400 1800 2600	388.9 500.0 722.2	42 40 33	740	280	78 80 82	3450
96	350WQ1800-43-315	350	1400 1800 2600	388.9 500.0 722.2	48 43 35	740	315	78 80 82	3650
97	350WQ1800-46-355	350	1400 1800 2600	388.9 500.0 722.2	50 46 38	740	355	78 80 82	3950
98	400WQ1500-5-30	400	1200 1500 2000	333.3 416.7 555.6	6 5 3	730	30	75 72 65	1380
99	400WQ1500-6-37	400	1200 1500 2000	333.3 416.7 555.6	7 6 4.5	740	37	75 72 65	1400
100	400WQ1500-8-45	400	1200 1500 2000	333.3 416.7 555.6	10 8 6	740	45	78 80 78	1450
101	400WQ1500-10-55	400	1200 1500 2000	333.3 416.7 555.6	12 10 7	740	55	78 82 78	1850
102	400WQ1500-12-75	400	1200 1500 2000	333.3 416.7 555.6	14 12 9	990	75	75 78 72	1800
103	400WQ1500-15-90	400	1200 1500 2000	333.3 416.7 555.6	18 15 12	990	90	75 78 80	1850
104	400WQ1500-18-110	400	1200 1500 2000	333.3 416.7 555.6	21 18 14	990	110	70 78 75	1930
105	400WQ1500-22-132	400	1200 1500 2000	333.3 416.7 555.6	25 22 17	990	132	70 75 80	2200
106	400WQ2000-20-160	400	1500 2000 2800	416.7 555.6 777.8	23 20 15	990	160	75 80 77	2300
107	400WQ2000-23-185	400	1500 2000 2800	416.7 555.6 777.8	25 23 17	990	185	75 80 77	2500
108	400WQ2000-25-200	400	1500 2000 2800	416.7 555.6 777.8	30 25 19	745	200	75 80 78	2850
109	400WQ2000-28-220	400	1500 2000 2800	416.7 555.6 777.8	35 28 21	745	220	75 80 78	3050
110	400WQ2000-32-250	400	1500 2000 2800	416.7 555.6 777.8	38 32 25	745	250	78 80 82	4200
111	400WQ2000-36-280	400	1500 2000 2800	416.7 555.6 777.8	43 36 27	745	280	78 80 82	4300
112	400WQ2000-40-315	400	1500 2000 2800	416.7 555.6 777.8	44 40 35	740	315	78 80 82	4400
113	400WQ2000-45-355	400	1400 1800 2600	388.9 500.0 722.2	47 45 38	740	355	78 80 82	4470

WQ SERIES SUBMERSIBLE SEWAGE PUMP
WQ型泵性能参数 WQ TYPE PUMP PERFORMANCE

序号 No.	型号 Type	排出口径 Outlet diameter (mm)	流量 Capacity		扬程 Head (m)	转速 Speed (r/min)	功率 Power (kW)	效率 Efficiency (%)	重量 Weight (Kg)
			(m³/h)	(L/s)					
114	500WQ2000-7-55	500	1500 2000 3000	416.7 555.6 833.3	10 7 4	740	55	80 76.2 68	1980
115	500WQ2200-8-75	500	1800 2200 3000	500 611.1 833.3	10 8 5	980	75	75 70 65	2150
116	500WQ2200-10-90	500	1800 2200 3000	500 611.1 833.3	13 10 7	990	90	78 72 68	2250
117	500WQ2200-12-110	500	1800 2200 3000	500 611.1 833.3	15 12 8	990	110	75 72 68	2350
118	500WQ2200-15-132	500	1800 2200 3000	500 611.1 833.3	17 15 10	990	132	70 75 68	2450
119	500WQ3000-11-132	500	2000 3000 4000	555.6 833.3 1111.1	14 11 8	745	132	78 75 72	3840
120	500WQ3000-13-160	500	2000 3000 4000	555.6 833.3 1111.1	21 13 9	745	160	78 75 72	3940
121	500WQ3000-15-185	500	2000 3000 4000	555.6 833.3 1111.1	22 15 11	745	185	75 72 70	4040
122	500WQ3000-16-200	500	2000 3000 4000	555.6 833.3 1111.1	23 16 12	745	200	75 72 70	4140
123	500WQ3000-18-220	500	2000 3000 4000	555.6 833.3 1111.1	26 18 14	745	220	70 75 73	3700
124	500WQ3000-21-250	500	2000 3000 4000	555.6 833.3 1111.1	29 21 16	745	250	70 77 75	3910
125	500WQ3000-24-280	500	2000 3000 4000	555.6 833.3 1111.1	32 24 18	745	280	70 77 75	4200
126	600WQ3000-8-110	600	2500 3000 4000	694.4 833.3 1111.1	10 8 6	590	110	70 68 65	3700
127	600WQ3000-10-132	600	2500 3000 4000	694.4 833.3 1111.1	12 10 8	590	132	70 75 72	3800
128	600WQ4000-10-160	600	3000 4000 5000	833.3 1111.1 1388.9	13 10 8	745	160	78 75 73	3900
129	600WQ4000-11-185	600	3000 4000 6000	833.3 1111.1 1666.7	15 11 6	745	185	78 75 65	4000
130	600WQ4000-12-200	600	3000 4000 6000	833.3 1111.1 1666.7	16 12 7	745	200	75 72 65	4100
131	600WQ4000-14-220	600	3000 4000 6000	833.3 1111.1 1666.7	18 14 9	745	220	77 75 72	4200
132	600WQ4000-16-250	600	3000 4000 6000	833.3 1111.1 1666.7	21 16 10	745	250	75 78 73	4300
133	600WQ4000-18-280	600	3000 4000 6000	833.3 1111.1 1666.7	23 18 11	745	280	75 77 72	4400
134	600WQ4000-20-315	600	3000 4000 6000	833.3 1111.1 1666.7	25 20 13	745	315	75 77 73	4500

WQ型泵安装方式 WQ TYPE PUMP INSTALLATION METHOD



WQ型泵安装尺寸表 WQ TYPE PUMP DIMENSION TABLE

序号 No.	型号 Type	硬管联接尺寸 Hard pipe connection dimension								软管联接尺寸 Soft pipe connection dimension			
		φA	φB	φC	φD	N ₂ -φd	H	H ₁	L	φD	L	H	H ₁
1	50WQ15-8-0.75	50	90	140	110	4-φ13.5	575	380	495	60	460	575	380
2	50WQ15-12-1.1	50	90	140	110	4-φ13.5	575	380	495	60	460	575	380
3	50WQ15-16-1.5	50	90	140	110	4-φ13.5	605	385	495	60	460	605	385
4	50WQ15-22-2.2	50	90	140	110	4-φ13.5	605	385	495	60	460	605	385
5	50WQ15-30-3	50	90	140	110	4-φ13.5	665	420	520	60	485	665	420
6	50WQ25-25-4	50	90	140	110	4-φ13.5	675	515	520	60	485	675	515
7	50WQ25-32-5.5	50	90	140	110	4-φ13.5	760	515	650	60	615	760	515
8	50WQ25-36-7.5	50	90	140	110	4-φ13.5	760	515	650	60	615	760	515
9	65WQ30-10-2.2	65	110	160	130	4-φ13.5	685	460	610	74	550	685	460
10	65WQ30-15-3	65	110	160	130	4-φ13.5	685	460	610	74	550	685	460
11	65WQ30-22-4	65	110	160	130	4-φ13.5	695	465	680	74	620	695	465
12	65WQ30-30-5.5	65	110	160	130	4-φ13.5	760	515	680	74	620	760	515
13	65WQ30-35-7.5	65	110	160	130	4-φ13.5	760	515	680	74	620	760	515
14	80WQ50-8-2.2	80	128	190	150	4-φ17.5	755	470	700	86	600	755	470
15	80WQ50-10-3	80	128	190	150	4-φ17.5	755	470	700	86	600	755	470
16	80WQ50-15-4	80	128	190	150	4-φ17.5	765	470	700	86	600	765	470
17	80WQ50-20-5.5	80	128	190	150	4-φ17.5	830	515	740	86	640	830	515
18	80WQ50-25-7.5	80	128	190	150	4-φ17.5	830	515	740	86	640	830	515
19	100WQ80-7-3	100	148	210	170	4-φ17.5	755	515	720	100	618	755	515
20	100WQ80-10-4	100	148	210	170	4-φ17.5	765	515	720	100	618	765	515
21	100WQ80-13-5.5	100	148	210	170	4-φ17.5	830	565	770	100	668	830	565
22	100WQ80-18-7.5	100	148	210	170	4-φ17.5	830	565	770	100	668	830	565
23	150WQ150-7-5.5	150	202	265	225	8-φ17.5	885	550	910	150	853	885	550
24	150WQ150-10-7.5	150	202	265	225	8-φ17.5	885	550	910	150	853	885	550

WQ 系列潜水排污泵

WQ型泵自动耦合安装尺寸表 WQ TYPE PUMP AUTO-COUPLED INSTALLATION DIMENSIONS TABLE

序号 No.	型 号 Type	φA	φB	φC	φD	N ₂ -φd	H	H ₁	H ₂	H ₃	H ₄	h	G	J	S	T	g	f	p	y	o	N ₁ -φd
1	50WQ15-8-0.75	50	90	140	110	4-φ13.5	495	215	50	—	430	20	65	105	55	315	260	310	230	210	—	4-φ20
2	50WQ15-12-1.1	50	90	140	110	4-φ13.5	495	215	50	—	430	20	65	105	55	315	260	310	230	210	—	4-φ20
3	50WQ15-16-1.5	50	90	140	110	4-φ13.5	525	215	50	—	430	20	65	105	55	315	260	310	230	210	—	4-φ20
4	50WQ15-22-2.2	50	90	140	110	4-φ13.5	525	215	50	—	430	20	65	105	55	315	260	310	230	210	—	4-φ20
5	50WQ15-30-3	50	90	140	110	4-φ13.5	585	215	50	—	490	20	65	105	55	340	260	310	230	210	—	4-φ20
6	50WQ25-25-4	50	90	140	110	4-φ13.5	595	215	50	—	530	20	65	105	55	340	260	310	230	210	—	4-φ20
7	50WQ25-32-5.5	50	90	140	110	4-φ13.5	680	215	50	—	555	20	65	105	55	395	260	310	230	210	—	4-φ20
8	50WQ25-36-7.5	50	90	140	110	4-φ13.5	680	215	50	—	555	20	65	105	55	395	260	310	230	210	—	4-φ20
9	65WQ30-10-2.2	65	110	160	130	4-φ13.5	605	240	65	—	545	20	80	120	55	365	275	310	250	225	—	4-φ20
10	65WQ30-15-3	65	110	160	130	4-φ13.5	605	240	65	—	545	20	80	120	55	365	275	310	250	225	—	4-φ20
11	65WQ30-22-4	65	110	160	130	4-φ13.5	615	240	65	—	565	20	80	120	55	395	275	310	250	225	—	4-φ20
12	65WQ30-30-5.5	65	110	160	130	4-φ13.5	680	240	65	—	615	20	80	120	55	395	275	310	250	225	—	4-φ20
13	65WQ30-35-7.5	65	110	160	130	4-φ13.5	680	240	65	—	615	20	80	120	55	395	275	310	250	225	—	4-φ20
14	80WQ50-8-2.2	80	128	190	150	4-φ17.5	635	275	80	—	595	25	70	175	90	455	290	340	255	260	—	4-φ20
15	80WQ50-10-3	80	128	190	150	4-φ17.5	635	275	80	—	595	25	70	175	90	455	290	340	255	260	—	4-φ20
16	80WQ50-15-4	80	128	190	150	4-φ17.5	645	275	80	—	615	25	70	175	90	455	290	340	255	260	—	4-φ20
17	80WQ50-20-5.5	80	128	190	150	4-φ17.5	710	275	80	—	660	25	70	175	90	475	290	340	255	260	—	4-φ20
18	80WQ50-25-7.5	80	128	190	150	4-φ17.5	710	275	80	—	660	25	70	175	90	475	290	340	255	260	—	4-φ20
19	80WQ50-35-11	80	128	190	150	4-φ17.5	915	275	80	—	790	25	70	175	90	455	290	340	255	260	—	4-φ20
20	80WQ50-40-15	80	128	190	150	4-φ17.5	915	275	80	—	790	25	70	175	90	455	290	340	255	260	—	4-φ20
21	80WQ50-64-18.5	80	128	190	150	4-φ17.5	960	275	80	—	825	25	70	175	90	455	290	340	255	260	—	4-φ20
22	100WQ80-7-3	100	148	210	170	4-φ17.5	635	330	100	—	650	25	90	215	90	465	340	410	305	310	—	4-φ20
23	100WQ80-10-4	100	148	210	170	4-φ17.5	645	330	100	—	650	25	90	215	90	465	340	410	305	310	—	4-φ20
24	100WQ80-13-5.5	100	148	210	170	4-φ17.5	710	330	100	—	690	25	90	215	90	505	340	410	305	310	—	4-φ20
25	100WQ80-18-7.5	100	148	210	170	4-φ17.5	710	330	100	—	690	25	90	215	90	505	340	410	305	310	—	4-φ20
26	100WQ80-24-11	100	148	210	170	4-φ17.5	915	330	100	—	825	25	90	215	90	485	340	410	305	310	—	4-φ20
27	100WQ80-32-15	100	148	210	170	4-φ17.5	915	330	100	—	825	25	90	215	90	485	340	410	305	310	—	4-φ20
28	100WQ80-36-18.5	100	148	210	170	4-φ17.5	915	330	100	—	825	25	90	215	90	485	340	410	305	310	—	4-φ20

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

WQ型泵自动耦合安装尺寸表 WQ TYPE PUMP AUTO-COUPLED INSTALLATION DIMENSIONS TABLE

P	Q	K	L	M	e	n	m	E
98	108	420	260	210	30	18	40	700×570
98	108	420	260	210	30	18	40	700×570
98	108	420	260	210	30	18	40	700×570
118	127	465	260	210	30	18	40	850×700
118	127	465	260	210	30	18	40	850×700
195	210	500	260	210	30	18	40	850×700
195	210	500	260	210	30	18	40	850×700
152	173	527	260	210	30	18	40	850×700
152	173	527	260	210	30	18	40	850×700
194	210	596	260	210	30	18	40	900×750
194	210	596	260	210	30	18	40	900×750
194	210	596	260	210	30	18	40	900×750
163	190	630	380	320	30	18	40	850×700
163	190	630	380	320	30	18	40	850×700
163	190							

WQ型泵自动耦合安装尺寸表 WQ TYPE PUMP AUTO-COUPLED INSTALLATION DIMENSIONS TABLE

序号 No.	型 号 Type	φA	φB	φC	φD	N ₂ -φd	H	H ₁	H ₂	H ₃	H ₄	h	G	J	S	T	g	f	p	y	o	N ₁ -φd
29	100WQ80-40-22	100	148	210	170	4-Φ17.5	960	330	100	—	825	25	90	215	90	485	340	410	305	310	—	4-Φ20
30	150WQ150-7-5.5	150	202	265	225	8-Φ17.5	765	485	150	—	845	35	125	260	90	545	480	500	440	400	—	4-Φ20
31	150WQ150-10-7.5	150	202	265	225	8-Φ17.5	765	485	150	—	845	35	125	260	90	545	480	500	440	400	—	4-Φ20
32	150WQ150-15-11	150	202	265	225	8-Φ17.5	1005	485	150	—	985	35	125	260	90	545	480	500	440	400	—	4-Φ20
33	150WQ150-20-15	150	202	265	225	8-Φ17.5	1005	485	150	—	985	35	125	260	90	545	480	500	440	400	—	4-Φ20
34	150WQ150-25-18.5	150	202	265	225	8-Φ17.5	1085	485	150	—	1035	35	125	260	90	595	480	500	440	400	—	4-Φ20
35	150WQ150-30-22	150	202	265	225	8-Φ17.5	1085	485	150	—	1035	35	125	260	90	595	480	500	440	400	—	4-Φ20
36	150WQ150-40-30	150	202	265	225	8-Φ17.5	1495	485	150	530	1155	35	125	260	90	595	480	500	440	400	—	4-Φ20
37	150WQ150-45-37	150	202	265	225	8-Φ17.5	1605	485	150	530	1175	35	125	260	90	645	480	500	440	400	—	4-Φ20
38	150WQ150-50-45	150	202	265	225	8-Φ17.5	1605	485	150	530	1175	35	125	260	90	645	480	500	440	400	—	4-Φ20
39	150WQ150-60-55	150	202	265	225	8-Φ17.5	1605	485	150	530	1175	35	125	260	90	645	480	500	440	400	—	4-Φ20
40	200WQ300-7-11	200	260	320	280	8-Φ17.5	1020	570	200	—	1050	30	200	260	90	600	550	610	500	470	—	4-Φ30
41	200WQ300-10-15	200	260	320	280	8-Φ17.5	1020	570	200	—	1050	30	200	260	90	600	550	610	500	470	—	4-Φ30
42	200WQ300-13-18.5	200	260	320	280	8-Φ17.5	1085	570	200	—	1120	30	200	260	90	600	550	610	500	470	—	4-Φ30
43	200WQ300-15-22	200	260	320	280	8-Φ17.5	1085	570	200	—	1120	30	200	260	90	600	550	610	500	470	—	4-Φ30
44	200WQ300-20-30	200	260	320	280	8-Φ17.5	1650	570	200	670	1300	30	200	260	90	700	550	610	500	470	—	4-Φ30
45	200WQ300-20-30(G)	200	260	320	280	8-Φ17.5	1650	570	200	670	1300	30	200	260	90	700	550	610	500	470	—	4-Φ30
46	200WQ300-25-37	200	260	320	280	8-Φ17.5	1650	570	200	670	1300	30	200	260	90	700	550	610	500	470	—	4-Φ30
47	200WQ300-25-37(G)	200	260	320	280	8-Φ17.5	1650	570	200	670	1300	30	200	260	90	700	550	610	500	470	—	4-Φ30
48	200WQ400-27-45	200	260	320	280	8-Φ17.5	1685	570	200	670	1300	30	200	260	90	700	550	610	500	470	—	4-Φ30
49	200WQ400-34-55	200	260	320	280	8-Φ17.5	1685	570	200	670	1300	30	200	260	90	700	550	610	500	470	—	4-Φ30
50	200WQ400-40-75	200	260	320	280	8-Φ17.5	1805	570	200	670	1420	30	200	260	90	700	550	610	500	470	—	4-Φ30
51	200WQ400-48-90	200	260	320	280	8-Φ17.5	1805	570	200	670	1420	30	200	260	90	700	550	610	500	470	—	4-Φ30
52	250WQ400-7-15	250	312	375	335	12-Φ17.5	1045	610	250	—	1150	40	200	260	90	630	550	610	520	480	—	4-Φ30
53	250WQ400-10-18.5	250	312	375	335	12-Φ17.5	1085	610	250	—	1200	40	200	260	90	630	600	610	520	480	—	4-Φ30
54	250WQ400-13-22	250	312	375	335	12-Φ17.5	1085	610	250	—	1200	40	200	260	90	630	600	610	520	480	—	4-Φ30
55	250WQ500-12-30	250	312	375	335	12-Φ17.5	1650	610	250	740	1380	40	200	260	90	760	600	610	520	480	—	4-Φ30
56	250WQ500-12-30(G)	250	312	375	335	12-Φ17.5	1650	610	250	740	1380	40	200	260	90	760	600	610	520	480	—	4-Φ30
57	250WQ500-16-37	250	312	375	335	12-Φ17.5	1650	610	250	740	1380	40	200	260	90	760	600	610	520	480	—	4-Φ30
58	250WQ500-16-37(G)	250	312	375	335	12-Φ17.5	1650	610	250	740	1380	40	200	260	90	760	600	610	520	480	—	4-Φ30
59	250WQ500-20-45	250	312	375	335	12-Φ17.5	1735	610	250	740	1430	40	200	260	90	760	600	610	520	480	—	4-Φ30
60	250WQ500-20-45(G)	250	312	375	335	12-Φ17.5	1735	610	250	740	1430	40	200	260	90	760	600	610	520	480	—	4-Φ30

WQ SERIES SUBMERSIBLE SEWAGE PUMP
WQ型泵自动耦合安装尺寸表 WQ TYPE PUMP AUTO-COUPLED INSTALLATION DIMENSIONS TABLE

P	Q	K	L	M	e	n	m	E
163	186	655	380	320	30	18	40	1000×700
203	250	77						

WQ型泵自动耦合安装尺寸表 WQ TYPE PUMP AUTO-COUPLED INSTALLATION DIMENSIONS TABLE

序号 No.	型号 Type	φA	φB	φC	φD	N ₂ -φd	H	H ₁	H ₂	H ₃	H ₄	h	G	J	S	T	g	f	p	y	o	N ₁ -φd
61	250WQ500-25-55	250	312	375	335	12-Φ17.5	1735	610	250	740	1430	40	200	260	90	200	600	610	520	480	—	4-Φ30
62	250WQ500-25-55(G)	250	312	375	335	12-Φ17.5	1735	610	250	740	1430	40	200	260	90	200	600	610	520	480	—	4-Φ30
63	250WQ600-28-75	250	312	375	335	12-Φ17.5	1805	610	250	740	1430	40	200	260	90	200	600	610	520	480	—	4-Φ30
64	250WQ600-34-90	250	312	375	335	12-Φ17.5	1805	610	250	740	1430	40	200	260	90	200	600	610	520	480	—	4-Φ30
65	250WQ600-40-110	250	312	375	335	12-Φ17.5	2020	610	250	740	1650	40	200	260	90	200	600	610	520	480	—	4-Φ30
66	250WQ600-50-132	250	312	375	335	12-Φ17.5	2020	610	250	740	1650	40	200	260	90	200	600	610	520	480	—	4-Φ30
67	300WQ600-6-18.5	300	365	440	395	12-Φ22	1115	720	250	—	1320	45	250	330	90	250	880	870	780	770	—	4-Φ30
68	300WQ600-7-22	300	365	440	395	12-Φ22	1115	720	250	—	1320	45	250	330	90	250	880	870	780	770	—	4-Φ30
69	300WQ700-11-30	300	365	440	395	12-Φ22	1680	720	300	840	1500	45	250	330	90	250	880	870	780	770	—	4-Φ30
70	300WQ700-11-30(G)	300	365	440	395	12-Φ22	1680	720	300	840	1500	45	250	330	90	250	880	870	780	770	—	4-Φ30
71	300WQ700-14-37	300	365	440	395	12-Φ22	1680	720	300	840	1500	45	250	330	90	250	880	870	780	770	—	4-Φ30
72	300WQ700-14-37(G)	300	365	440	395	12-Φ22	1680	720	300	840	1500	45	250	330	90	250	880	870	780	770	—	4-Φ30
73	300WQ700-16-45	300	365	440	395	12-Φ22	1765	720	300	840	1550	45	250	330	90	250	880	870	780	770	—	4-Φ30
74	300WQ700-16-45(G)	300	365	440	395	12-Φ22	1765	720	300	840	1550	45	250	330	90	250	880	870	780	770	—	4-Φ30
75	300WQ700-19-55	300	365	440	395	12-Φ22	1765	720	300	840	1550	45	250	330	90	250	880	870	780	770	—	4-Φ30
76	300WQ700-19-55(G)	300	365	440	395	12-Φ22	1765	720	300	840	1550	45	250	330	90	250	880	870	780	770	—	4-Φ30
77	300WQ1000-20-75	300	365	440	395	12-Φ22	2045	720	300	840	1760	45	250	330	90	250	880	870	780	770	—	4-Φ30
78	300WQ1000-24-90	300	365	440	395	12-Φ22	2045	720	300	840	1760	45	250	330	90	250	880	870	780	770	—	4-Φ30
79	300WQ1000-28-110	300	365	440	395	12-Φ22	2050	720	300	840	1790	45	250	330	90	250	880	870	780	770	—	4-Φ30
80	300WQ1000-35-132	300	365	440	395	12-Φ22	2050	720	300	840	1790	45	250	330	90	250	880	870	780	770	—	4-Φ30
81	350WQ1200-6-30	350	350	490	445	12-Φ22	1745	820	350	1000	1610	45	335	315	125	335	880	870	780	770	—	4-Φ30
82	350WQ1200-8-37	350	350	490	445	12-Φ22	1830	820	350	1000	1670	45	335	315	125	335	880	870	780	770	—	4-Φ30
83	350WQ1100-10-45	350	350	490	445	12-Φ22	1830	820	350	1000	1670	45	335	315	125	335	880	870	780	770	—	4-Φ30
84	350WQ1100-12-55	350	350	490	445	12-Φ22	2115	820	350	1000	1900	45	335	315	125	335	880	870	780	770	—	4-Φ30
85	350WQ1100-16-75	350	350	490	445	12-Φ22	2045	820	350	1000	1900	45	335	315	125	335	880	870	780	770	—	4-Φ30
86	350WQ1100-20-90	350	350	490	445	12-Φ22	2045	820	350	1000	1900	45	335	315	125	335	880	870	780	770	—	4-Φ30
87	350WQ1100-25-110	350	350	490	445	12-Φ22	2350	820	350	1000	1900	45	335	315	125	335	880	870	780	770	—	4-Φ30
88	350WQ1100-30-132	350	350	490	445	12-Φ22	2350	820	350	1000	1900	45	335	315	125	335	880	870	780	770	—	4-Φ30
89	350WQ1100-36-160	350	350	490	445	12-Φ22	2350	820	350	1000	1900	45	335	315	125	335	880	870	780	770	—	4-Φ30
90	350WQ1500-30-185	350	350	490	445	12-Φ22	2350	820	350	1000	1900	45	335	315	125	335	880	870	780	770	—	4-Φ30
91	350WQ1500-32-200	350	350	490	445	12-Φ22	2660	820	350	1000	1990	45	335	315	125	335	880	870	780	770	—	4-Φ30
92	350WQ1500-35-220	350	350	490	445	12-Φ22	2660	820	350	1000	1990	45	335	315	125	335	880	870	780	770	—	4-Φ30

WQ SERIES SUBMERSIBLE SEWAGE PUMP
WQ型泵自动耦合安装尺寸表 WQ TYPE PUMP AUTO-COUPLED INSTALLATION DIMENSIONS TABLE

P	Q	K	L	M	e	n	m	E
319	404	1098	460	400	30	18		

WQ型泵自动耦合安装尺寸表 WQ TYPE PUMP AUTO-COUPLED INSTALLATION DIMENSIONS TABLE

序号 No.	型 号 Type	φA	φB	φC	φD	N ₂ -φd	H	H ₁	H ₂	H ₃	H ₄	h	G	J	S	T	g	f	p	y	o	N ₁ -φd
84	350WQ1500-40-250	350	415	490	445	12-Φ22	2885	820	350	1000	2215	45	335	315	125	1115	880	870	780	770	—	4-Φ30
85	350WQ1800-40-280	350	415	490	445	12-Φ22	2885	820	350	1000	2215	45	335	315	125	1115	880	870	780	770	—	4-Φ30
86	350WQ1800-43-315	350	415	490	445	12-Φ22	2885	820	350	900	2215	45	335	315	125	1115	880	870	780	770	—	4-Φ30
87	350WQ1800-46-355	350	415	490	445	12-Φ22	2885	820	350	900	2215	45	335	315	125	1115	880	870	780	770	—	4-Φ30
88	400WQ1500-5-30	400	482	565	515	16-Φ26	1745	940	400	1100	1730	50	480	370	125	965	880	950	780	850	425	6-Φ40
89	400WQ1500-6-37	400	482	565	515	16-Φ26	1830	940	400	1100	1730	50	480	370	125	965	880	950	780	850	425	6-Φ40
90	400WQ1500-8-45	400	482	565	515	16-Φ26	1830	940	400	1100	1730	50	480	370	125	965	880	950	780	850	425	6-Φ40
91	400WQ1500-10-55	400	482	565	515	16-Φ26	2115	940	400	1100	1880	50	480	370	125	965	880	950	780	850	425	6-Φ40
92	400WQ1500-12-75	400	482	565	515	16-Φ26	2115	940	400	1100	1880	50	480	370	125	965	880	950	780	850	425	6-Φ40
93	400WQ1500-15-90	400	482	565	515	16-Φ26	2115	940	400	1100	1880	50	480	370	125	965	880	950	780	850	425	6-Φ40
94	400WQ1500-18-110	400	482	565	515	16-Φ26	2115	940	400	1100	1880	50	480	370	125	965	880	950	780	850	425	6-Φ40
95	400WQ1500-22-132	400	482	565	515	16-Φ26	2395	940	400	1100	1880	50	480	370	125	965	880	950	780	850	425	6-Φ40
96	400WQ2000-20-160	400	482	565	515	16-Φ26	2395	940	400	1100	1880	50	480	370	125	965	880	950	780	850	425	6-Φ40
97	400WQ2000-23-185	400	482	565	515	16-Φ26	2395	940	400	1100	1880	50	480	370	125	965	880	950	780	850	425	6-Φ40
98	400WQ2000-25-200	400	482	565	515	16-Φ26	2660	940	400	1100	1990	50	480	370	125	1115	880	950	780	850	425	6-Φ40
99	400WQ2000-28-220	400	482	565	515	16-Φ26	2660	940	400	1100	1990	50	480	370	125	1115	880	950	780	850	425	6-Φ40
100	400WQ2000-32-250	400	482	565	515	16-Φ26	2885	940	400	1100	2210	50	480	370	125	1115	880	950	780	850	425	6-Φ40
101	400WQ2000-36-280	400	482	565	515	16-Φ26	2885	940	400	1100	2210	50	480	370	125	1115	880	950	780	850	425	6-Φ40
102	400WQ2000-40-315	400	482	565	515	16-Φ26	2885	940	400	1100	2210	50	480	370	125	1115	880	950	780	850	425	6-Φ40
103	400WQ2000-45-355	400	482	565	515	16-Φ26	2885	940	400	1100	2210	50	480	370	125	1115	880	950	780	850	425	6-Φ40
104	500WQ2000-7-55	500	585	670	620	20-Φ26	2115	1120	500	1300	2060	55	510	355	125	1040	1210	1300	1090	1180	590	6-Φ50
105	500WQ2200-8-75	500	585	670	620	20-Φ26	2115	1120	500	1300	2060	55	510	355	125	1040	1210	1300	1090	1180	590	6-Φ50
106	500WQ2200-10-90	500	585	670	620	20-Φ26	2115	1120	500	1300	2060	55	510	355	125	1040	1210	1300	1090	1180	590	6-Φ50
107	500WQ2200-12-110	500	585	670	620	20-Φ26	2115	1120	500	1300	2060	55	510	355	125	1040	1210	1300	1090	1180	590	6-Φ50
108	500WQ2200-15-132	500	585	670	620	20-Φ26	2115	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-Φ50
109	500WQ3000-11-132	500	585	670	620	20-Φ26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-Φ50
110	500WQ3000-13-160	500	585	670	620	20-Φ26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-Φ50

WQ SERIES SUBMERSIBLE SEWAGE PUMP
WQ型泵自动耦合安装尺寸表 WQ TYPE PUMP AUTO-COUPLED INSTALLATION DIMENSIONS TABLE

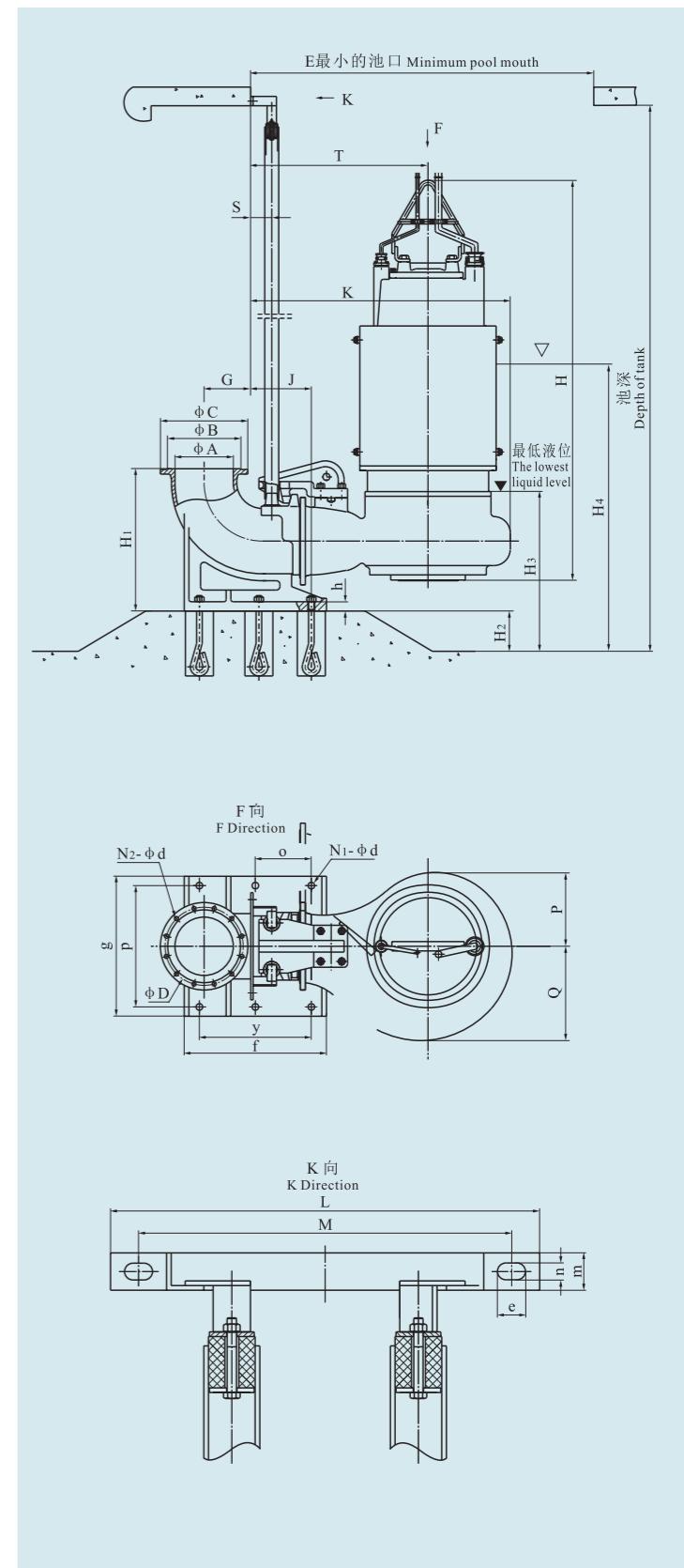
P	Q	K	L	M	e	n	m	E
547	645	1715	640	580	30	18	60	1600×1300
547	645	1715	640	580	30	18	60	1600×1300
547	645	1715	640	580	30	18	60	1600×1300
547	645	1715	640	580	30	18	60	1600×1300
377	533	1375	640	580	30	18	60	1600×1300
377	533	1375	640	580	30	18	60	1600×1300
377	533	1375	640	580	30	18	60	1600×1300
367	507	1355	640	580	30	18	60	1700×1400
367	507	1355	640	580	30	18	60	1700×1400
367	507	1355	640	580	30	18	60	1700×1400
475	615	1611	640	580	30	18	60	1900×1500
475	615	1611	640	5				

WQ型泵自动耦合安装尺寸表 WQ TYPE PUMP AUTO-COUPLED INSTALLATION DIMENSIONS TABLE

序号 No.	型 号 Type	φA	φB	φC	φD	N ₂ -φd	H	H ₁	H ₂	H ₃	H ₄	h	G	J	S	T	g	f	p	y	o	N ₁ -φd
111	500WQ3000-15-185	500	585	670	620	20-φ26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-φ50
112	500WQ3000-16-200	500	585	670	620	20-φ26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-φ50
113	500WQ3000-18-220	500	585	670	620	20-φ26	2815	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-φ50
114	500WQ3000-21-250	500	585	670	620	20-φ26	3040	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-φ50
115	500WQ3000-24-280	500	585	670	620	20-φ26	3040	1120	500	1300	2200	55	510	355	125	1340	1210	1300	1090	1180	590	6-φ50
116	600WQ3000-8-110	600	685	780	725	20-φ30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-φ50
117	600WQ3000-10-132	600	685	780	725	20-φ30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-φ50
118	600WQ4000-10-160	600	685	780	725	20-φ30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-φ50
119	600WQ4000-11-185	600	685	780	725	20-φ30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-φ50
120	600WQ4000-12-200	600	685	780	725	20-φ30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-φ50
121	600WQ4000-14-220	600	685	780	725	20-φ30	2815	1280	600	1530	2400	55	540	475	125	1320	1210	1300	1090	1180	590	6-φ50
122	600WQ4000-16-250	600	685	780	725	20-φ30	3040	1280	600	1530	2625	55	540	475	125	1320	1210	1300	1090	1180	590	6-φ50
123	600WQ4000-18-280	600	685	780	725	20-φ30	3040	1280	600	1530	2625	55	540	475	125	1320	1210	1300	1090	1180	590	6-φ50
124	600WQ4000-20-315	600	685	780	725	20-φ30	3040	1280	600	1530	2625	55	540	475	125	1320	1210	1300	1090	1180	590	6-φ50

WQ SERIES SUBMERSIBLE SEWAGE PUMP
WQ型泵自动耦合安装尺寸表 WQ TYPE PUMP AUTO-COUPLED INSTALLATION DIMENSIONS TABLE

P	Q	K	L	M	e	n	m	E
575	815	2000	640	580	30	18	60	1900×1600
575	815	2000	640	580	30	18	60	1900×1600
555	740	1940	640	580	30	18	60	2100×1800
555	740	1940	640	580	30	18	60	2100×1800
555	740	1940	640	580	30	18	60	2100×1800
575	815	2000	640	580	30	18	60	2200×1900
575	815	2000	640	580	30	18	60	2200×1900
575	815	2000	640	580	30	18	60	2200×1900
575	815	2000	640	580	30	18	60	2200×1900
575	815	2000	640	580	30	18	60	2200×1900
552	802	1902	640	580	30	18	60	2200×1900
552	802	1902	640	580	30	18	60	2200×1900
552	802	1902	640	580	30	18	60	2200×1900
552	802	1902	640	580	30	18	60	2200×1900

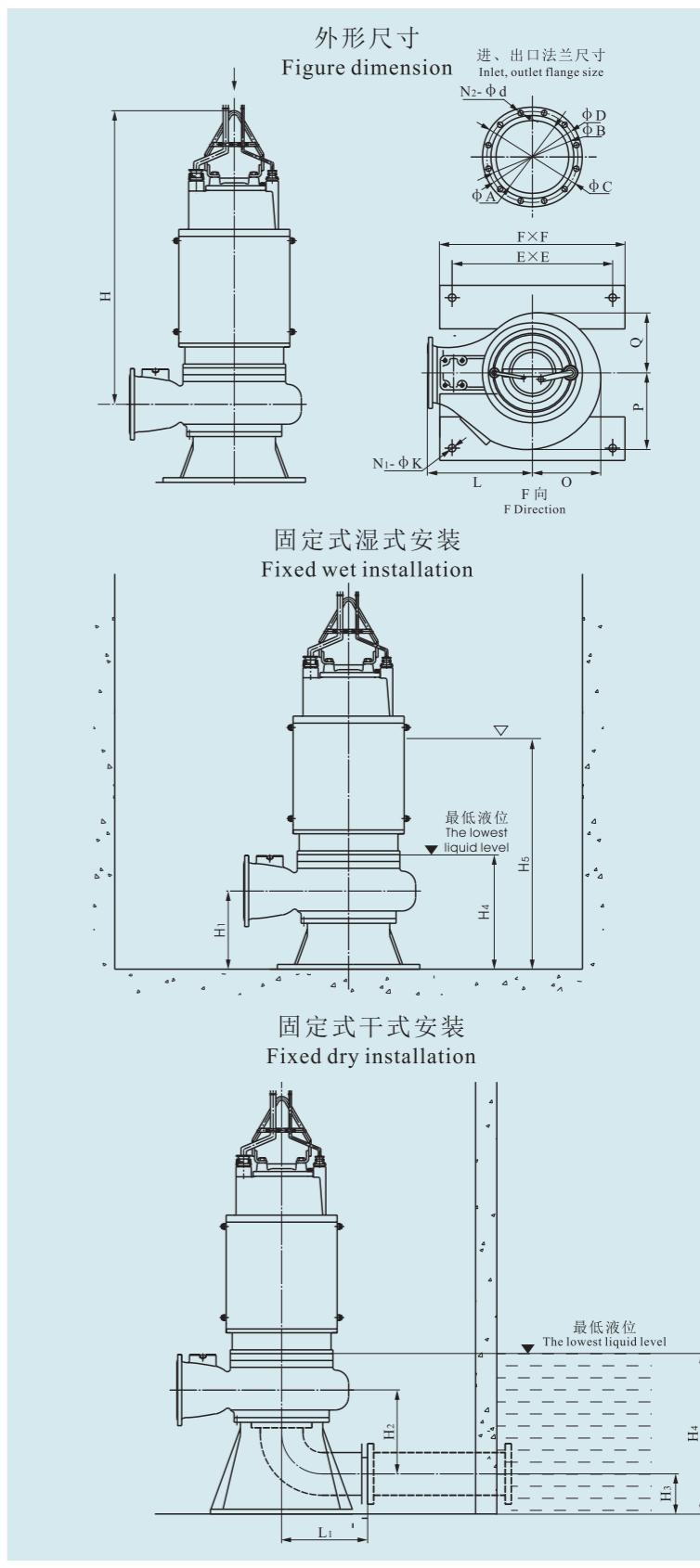


WQ型泵固定式安装尺寸表 WQ TYPE PUMP FIXED INSTALLATION DIMENSIONS TABLE

序号 No.	型号 Type	外型尺寸 (Figure dimension)													
		φA	φB	φC	φD	N ₂ -φd	H	O	P	Q	L	E×E	F×F	N ₁ -φk	
1	80WQ50-35-11	80	128	190	150	4-φ17.5	830	212	163	180	280	520×520	600×600	4-φ25	
2	80WQ50-40-15	80	128	190	150	4-φ17.5	830	212	163	180	280	520×520	600×600	4-φ25	
3	80WQ50-64-18.5	80	128	190	150	4-φ17.5	875	212	163	180	280	520×520	600×600	4-φ25	
4	100WQ80-24-11	100	148	210	170	4-φ17.5	830	205	163	180	280	520×520	600×600	4-φ25	
5	100WQ80-32-15	100	148	210	170	4-φ17.5	830	205	163	180	280	520×520	600×600	4-φ25	
6	100WQ80-36-18.5	100	148	210	170	4-φ17.5	830	256	163	180	280	520×520	600×600	4-φ25	
7	100WQ80-40-22	100	148	210	170	4-φ17.5	875	256	163	180	280	520×520	600×600	4-φ25	
8	150WQ150-15-11	150	202	265	225	8-φ17.5	870	228	203	250	350	520×520	600×600	4-φ25	
9	150WQ150-20-15	150	202	265	225	8-φ17.5	870	228	203	250	350	520×520	600×600	4-φ25	
10	150WQ150-25-18.5	150	202	265	255	8-φ17.5	935	247	233	262	400	565×565	640×640	4-φ25	
11	150WQ150-30-22	150	202	265	225	8-φ17.5	935	247	233	262	400	565×565	640×640	4-φ25	
12	150WQ150-40-30	150	202	265	225	8-φ17.5	1345	367	233	262	400	800×800	900×900	4-φ40	
13	150WQ150-45-37	150	202	265	225	8-φ17.5	1450	367	288	316	450	800×800	900×900	4-φ40	
14	150WQ150-50-45	150	202	265	225	8-φ17.5	1450	367	288	316	450	800×800	900×900	4-φ40	
15	150WQ150-60-55	150	202	265	225	8-φ17.5	1450	367	288	316	450	800×800	900×900	4-φ40	
16	200WQ300-7-11	200	260	320	280	8-φ17.5	870	254	212	295	400	520×520	600×600	4-φ25	
17	200WQ300-10-15	200	260	320	280	8-φ17.5	870	254	212	295	400	520×520	600×600	4-φ25	
18	200WQ300-13-18.5	200	260	320	280	8-φ17.5	930	267	230	300	400	520×520	600×600	4-φ25	
19	200WQ300-15-22	200	260	320	280	8-φ17.5	930	267	230	300	400	520×520	600×600	4-φ25	
20	200WQ300-20-30	200	260	320	280	8-φ17.5	1480	342	309	376	500	700×700	800×800	4-φ40	
21	200WQ300-20-30(G)	200	260	320	280	8-φ17.5	1480	342	252	336	500	700×700	800×800	4-φ40	
22	200WQ300-25-37	200	260	320	280	8-φ17.5	1480	342	309	376	500	700×700	800×800	4-φ40	
23	200WQ300-25-37(G)	200	260	320	280	8-φ17.5	1480	342	252	336	500	700×700	800×800	4-φ40	
24	200WQ400-27-45	200	260	320	280	8-φ17.5	1515	349	332	368	500	800×800	900×900	4-φ40	
25	200WQ400-34-55	200	260	320	280	8-φ17.5	1515	349	332	368	500	800×800	900×900	4-φ40	
26	200WQ400-40-75	200	260	320	280	8-φ17.5	1635	379	362	398	500	800×800	900×900	4-φ40	
27	200WQ400-48-90	200	260	320	280	12-φ17.5	1635	379	362	398	500	800×800	900×900	4-φ40	
28	250WQ400-7-15	200	312	375	335	12-φ17.5	910	254	212	295	420	520×520	600×600	4-φ25	
29	250WQ400-10-18.5	250	212	375	335	12-φ17.5	950	267	230	300	420	520×520	600×600	4-φ25	
30	250WQ400-13-22	250	312	375	335	12-φ17.5	950	267	230	300	420	520×520	600×600	4-φ25	
31	250WQ500-12-30	250	312	375	335	12-φ17.5	1480	360	319	404	550	700×700	800×800	4-φ40	

WQ SERIES SUBMERSIBLE SEWAGE PUMP
WQ型泵固定式安装尺寸表 WQ TYPE PUMP FIXED INSTALLATION DIMENSIONS TABLE

湿式安装 Wet installation			干式安装 Dry installation		
H ₁	H ₄	H ₅	L ₁	H ₂	H ₃
300	—	860	—	—	—
300	—	860	—	—	—
300	—	875	—	—	—
300	—	860	—	—	—
300	—	860	—	—	—
300	—	875	—	—	—
300	—	875	—	—	—
320	—	905	—	—	—
320	—	905	—	—	—
320	—	955	—	—	—
480	620	1175	500	410	200
480	620	1175	500	410	200
480	620	1175	500	410	200
480	620	1175	500	410	200
330	—	850	—	—	—
330	—	850	—	—	—
330	—	850	—	—	—
330	—	850	—	—	—
445	640	1130	450	420	250
445	640	1130	450	420	250
445	640	1130	450	420	250
445	640	1130	450	420	250
495	660	1180	500	475	250
495	660	1180	500	475	250
495	660	1230	500	475	250
495	660	1230	500	475	250
330	—	950	—	—	—
330	—	950	—	—	—
330	—	950	—	—	—
445	640	1280	450	445	300



WQ型泵固定式安装尺寸表 WQ TYPE PUMP FIXED INSTALLATION DIMENSIONS TABLE

序号 No.	型号 Type	外型尺寸 (Figure dimension)												
		ΦA	ΦB	ΦC	ΦD	N ₂ -Φd	H	O	P	Q	L	E×E	F×F	N ₁ -Φk
32	250WQ500-12-30(G)	250	312	375	335	12-Φ17.5	1480	360	267	367	550	700×700	800×800	4-Φ40
33	250WQ500-16-37	250	312	375	335	12-Φ17.5	1480	360	319	404	550	700×700	800×800	4-Φ40
34	250WQ500-16-37(G)	250	312	375	335	12-Φ17.5	1480	360	267	367	550	700×700	800×800	4-Φ40
35	250WQ500-20-45	250	312	375	335	12-Φ17.5	1565	360	319	404	550	700×700	800×800	4-Φ40
36	250WQ500-20-45(G)	250	312	375	335	12-Φ17.5	1565	360	267	367	550	700×700	800×800	4-Φ40
37	250WQ500-25-55	250	312	375	335	12-Φ17.5	1565	360	319	404	550	700×700	800×800	4-Φ40
38	250WQ500-25-55(G)	250	312	375	335	12-Φ17.5	1565	360	267	367	550	700×700	800×800	4-Φ40
39	250WQ600-28-75	250	312	375	335	12-Φ17.5	1635	379	362	398	550	800×800	900×900	4-Φ40
40	250WQ600-34-90	250	312	375	335	12-Φ17.5	1635	379	362	398	550	800×800	900×900	4-Φ40
41	250WQ600-40-110	250	312	375	335	12-Φ17.5	1850	379	362	398	550	800×800	900×900	4-Φ40
42	250WQ600-50-132	250	312	375	335	12-Φ17.5	1850	379	362	398	550	800×800	900×900	4-Φ40
43	300WQ600-6-18.5	300	365	440	395	12-Φ22	970	267	230	300	400	520×520	600×600	4-Φ25
44	300WQ600-7-22	300	365	440	395	12-Φ22	970	267	230	300	400	520×520	600×600	4-Φ25
45	300WQ700-11-30	300	365	440	395	12-Φ22	1485	378	327	430	550	700×700	800×800	4-Φ40
46	300WQ700-11-30(G)	300	365	440	395	12-Φ22	1485	378	299	453	550	700×700	800×800	4-Φ40
47	300WQ700-14-37	300	365	440	395	12-Φ22	1485	378	327	430	550	700×700	800×800	4-Φ40
48	300WQ700-14-37(G)	300	365	440	395	12-Φ22	1485	378	299	453	550	700×700	800×800	4-Φ40
49	300WQ700-16-45	300	365	440	395	12-Φ22	1570	397	344	454	550	700×700	800×800	4-Φ40
50	300WQ700-16-45(G)	300	365	440	395	12-Φ22	1570	397	299	453	550	700×700	800×800	4-Φ40
51	300WQ700-19-55	300	365	440	395	12-Φ22	1570	397	344	454	550	700×700	800×800	4-Φ40
52	300WQ700-19-55(G)	300	365	440	395	12-Φ22	1570	397	299	453	550	700×700	800×800	4-Φ40
53	300WQ1000-20-75	300	365	440	395	12-Φ22	1835	424	384	464	700	1000×1000	1100×1100	4-Φ50
54	300WQ1000-24-90	300	365	440	395	12-Φ22	1835	424	384	464	700	1000×1000	1100×1100	4-Φ50
55	300WQ1000-28-110	300	365	440	395	12-Φ22	1855	424	384	464	550	1000×1000	1100×1100	4-Φ50
56	300WQ1000-35-132	300	365	440	395	12-Φ22	1855	424	384	464	550	1000×1000	1100×1100	4-Φ50
57	350WQ1200-6-30	350	415	490	445	12-Φ22	1470	434	363	499	650	1000×1000	1100×1100	4-Φ50
58	350WQ1200-8-37	350	415	490	445	12-Φ22	1555	434	363	499	650	1000×1000	1100×1100	4-Φ50
59	350WQ1100-10-45	350	415	490	445	12-Φ22	1555	434	363	499	650	1000×1000	1100×1100	4-Φ50
60	350WQ1100-12-55	350	415	490	445	12-Φ22	1840	434	363	499	650	1000×1000	1100×1100	4-Φ50
61	350WQ1100-16-75	350	415	490	445	12-Φ22	1840	424	384	464	700	1000×1000	1100×1100	4-Φ50

WQ SERIES SUBMERSIBLE SEWAGE PUMP
WQ型泵固定式安装尺寸表 WQ TYPE PUMP FIXED INSTALLATION DIMENSIONS TABLE

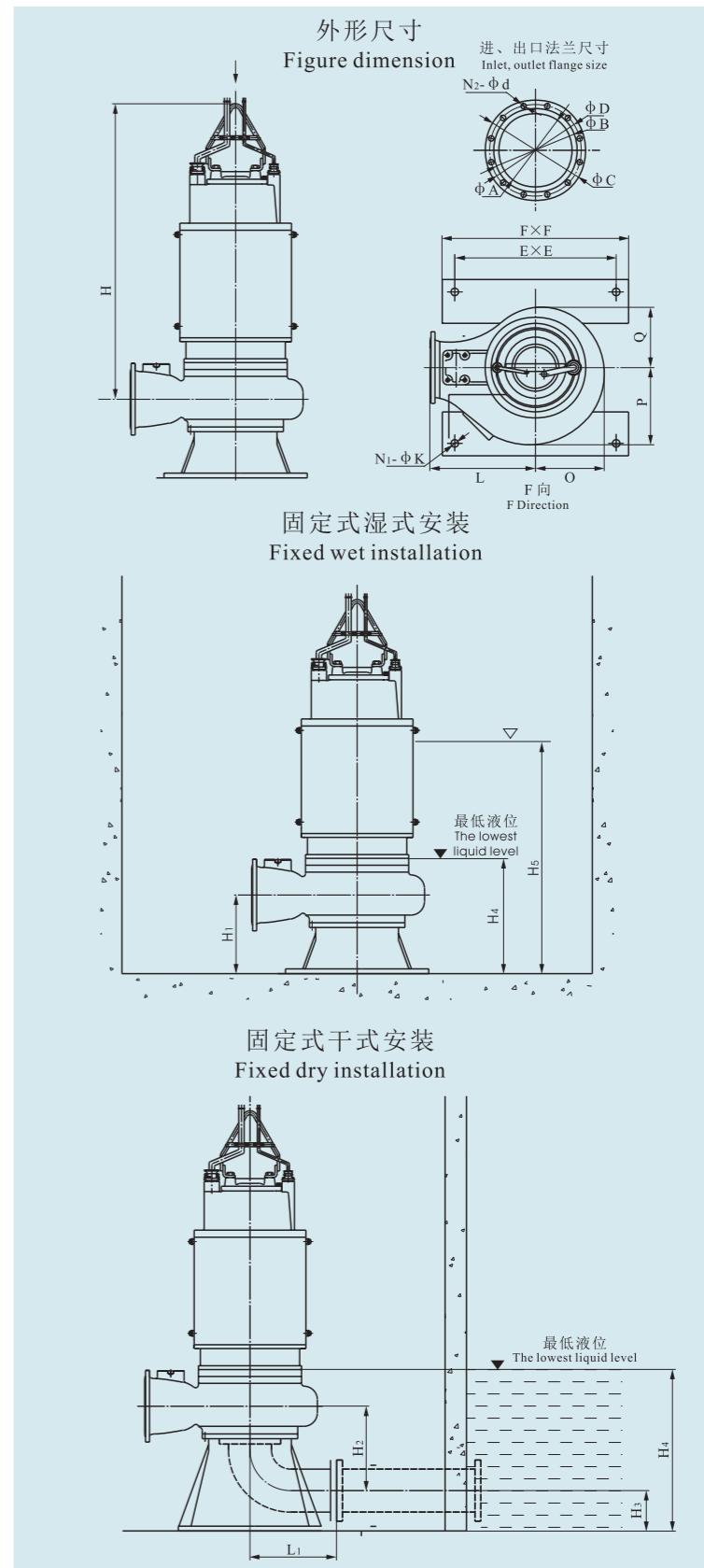
湿式安装 Wet installation	干式安装 Dry installation						
	H ₁	H ₄	H ₅	L ₁	H ₂	H ₃	H ₄
445	640	1280	450	445	300	945	
445	640	1280	450	445	300	945	
445	640	1280	450	445	300	945	
445	640	1280	450	445	300	945	
445	640	1280	450	445	300	945	
445	640	1330	450	445	300	945	
445	640	1330	450	445	300	945	
495	660	1330	500	500	300	965	
495	660	1330	500	500	300	965	
495	660	1330	500	500	300	965	
495	660	1330	500	500	300	965	
330	—	1020	—	—	—	—	
330	—	1020	—	—	—	—	
460	650	1350	450	510	400	1100	
460	650	1350	450	510	400	1100	
460	650	1350	450	510	400	1100	
460	650	1350	450	510	400	1100	
460	650	1350	450	510	400	1100	
460	650	1350	450	510	400	1100	
580	700	1500	600	510	400	1100	
580	700	1500	600	510	400	1100	
580	700	1500	600	510	400	1100	
580	700	1500	600	510	400	1100	
580	700	1500	600	510	400	1100	
580	700	1500	600	510	400	1100	
655	800	1510	600	625	450	1200	
655	800	1510	600	625			

WQ型泵固定式安装尺寸表 WQ TYPE PUMP FIXED INSTALLATION DIMENSIONS TABLE

序号 No.	型号 Type	外型尺寸 (Figure dimension)												
		φA	φB	φC	φD	N ₂ -φd	H	O	P	Q	L	E×E	F×F	N ₁ -φk
53	350WQ1100-20-90	350	415	490	445	12-φ22	1840	424	384	464	700	1000×1000	1100×1100	4-φ50
54	350WQ1100-25-110	350	415	490	445	12-φ22	1890	424	384	464	700	1000×1000	1100×1100	4-φ50
55	350WQ1100-30-132	350	415	490	445	12-φ22	1890	424	384	464	700	1000×1000	1100×1100	4-φ50
56	350WQ1100-36-160	350	415	490	445	12-φ22	1890	515	475	555	700	1000×1000	1100×1100	4-φ50
57	350WQ1500-30-185	350	415	490	445	12-φ22	1890	434	363	499	700	1000×1000	1100×1100	4-φ50
58	350WQ1500-32-200	350	415	490	445	12-φ22	2260	600	645	548	850	1000×1000	1100×1100	4-φ50
59	350WQ1500-35-220	350	415	490	445	12-φ22	2260	600	645	548	850	1000×1000	1100×1100	4-φ50
60	350WQ1500-40-250	350	415	490	445	12-φ22	2485	600	645	548	850	1000×1000	1100×1100	4-φ50
61	350WQ1800-40-280	350	415	490	445	12-φ22	2485	600	645	548	850	1000×1000	1100×1100	4-φ50
62	350WQ1800-43-315	350	415	490	445	12-φ22	2485	600	645	548	850	1000×1000	1100×1100	4-φ50
63	350WQ1800-46-355	350	415	490	445	12-φ22	2485	600	645	548	850	1000×1000	1100×1100	4-φ50
64	400WQ1500-5-30	400	482	565	515	16-φ26	1435	459	377	533	700	1000×1000	1100×1100	4-φ50
65	400WQ1500-6-37	400	482	565	515	16-φ26	1530	459	377	533	700	1000×1000	1100×1100	4-φ50
66	400WQ1500-8-45	400	482	565	515	16-φ26	1530	459	377	533	700	1000×1000	1100×1100	4-φ50
67	400WQ1500-10-55	400	482	565	515	16-φ26	1805	459	377	533	700	1000×1000	1100×1100	4-φ50
68	400WQ1500-12-75	400	482	565	515	16-φ26	1805	424	384	464	700	1000×1000	1100×1100	4-φ50
69	400WQ1500-15-90	400	482	565	515	16-φ26	1805	424	384	464	700	1000×1000	1100×1100	4-φ50
70	400WQ1500-18-110	400	482	565	515	16-φ26	1805	424	384	464	700	1000×1000	1100×1100	4-φ50
71	400WQ1500-22-132	400	482	565	515	16-φ26	1890	424	384	464	700	1000×1000	1100×1100	4-φ50
72	400WQ2000-20-160	400	482	565	515	16-φ26	1890	545	475	615	700	1000×1000	1100×1100	4-φ50
73	400WQ2000-23-185	400	482	565	515	16-φ26	1890	545	475	615	700	1000×1000	1100×1100	4-φ50
74	400WQ2000-25-200	400	482	565	515	16-φ26	2260	545	475	615	850	1100×1100	1200×1200	4-φ50
75	400WQ2000-28-220	400	482	565	515	16-φ26	2260	620	535	690	850	1100×1100	1200×1200	4-φ50
76	400WQ2000-32-250	400	482	565	515	16-φ26	2485	620	535	690	850	1100×1100	1200×1200	4-φ50
77	400WQ2000-36-280	400	482	565	515	16-φ26	2485	620	535	690	850	1100×1100	1200×1200	4-φ50

WQ SERIES SUBMERSIBLE SEWAGE PUMP
WQ型泵固定式安装尺寸表 WQ TYPE PUMP FIXED INSTALLATION DIMENSIONS TABLE

湿式安装 Wet installation	干式安装 Dry installation						
	H ₁	H ₄	H ₅	L ₁	H ₂	H ₃	H ₄
600	820	1740	600	580	450	1220	
600	820	1740	600	580	450	1220	
600	820	1740	600	580	450	1220	
600	820	1740	600	580	450	1220	
655	800	1540	600	625	450	1200	
655	800	1800	600	625	450	1200	
655	800	1800	600	625	450	1200	
655	800	2040	600	625	450	1200	
655	800	2040	600	625	450	1200	
655	800	2040	600	625	450	1200	
655	800	2040	600	625	450	1200	
690	800	1690	600	630	500	1300	
690	800	1690	600	630	500	1330	
690	800	1690	600	630	500	1330	
690	800	1690	600	630	500	1330	
690	800	1690	600	630	500	1330	
690	820	1690	600	630	500	1330	
690	820	1690	600	630	500	1330	
690	820	1690	600	630	500	1330	
690	820	1690	600	630	500	1330	
690	820	1690	600	630	500	1330	
690	820	1690	600	630	500	1330	
690	820	1690	600	630	500	1330	
690	820	1690	600	630	500	1330	
690	820	1690	600	630	500	1330	
690	850	1690	600	620	550	1400	
690	850	1690	600	620	550	1400	
710	850	1800	600	750	600	1750	
710	950	1800	650	750	600	1750	
710	950	2040	650	750	600	1750	
710	950	2040	650	750	600	1750	

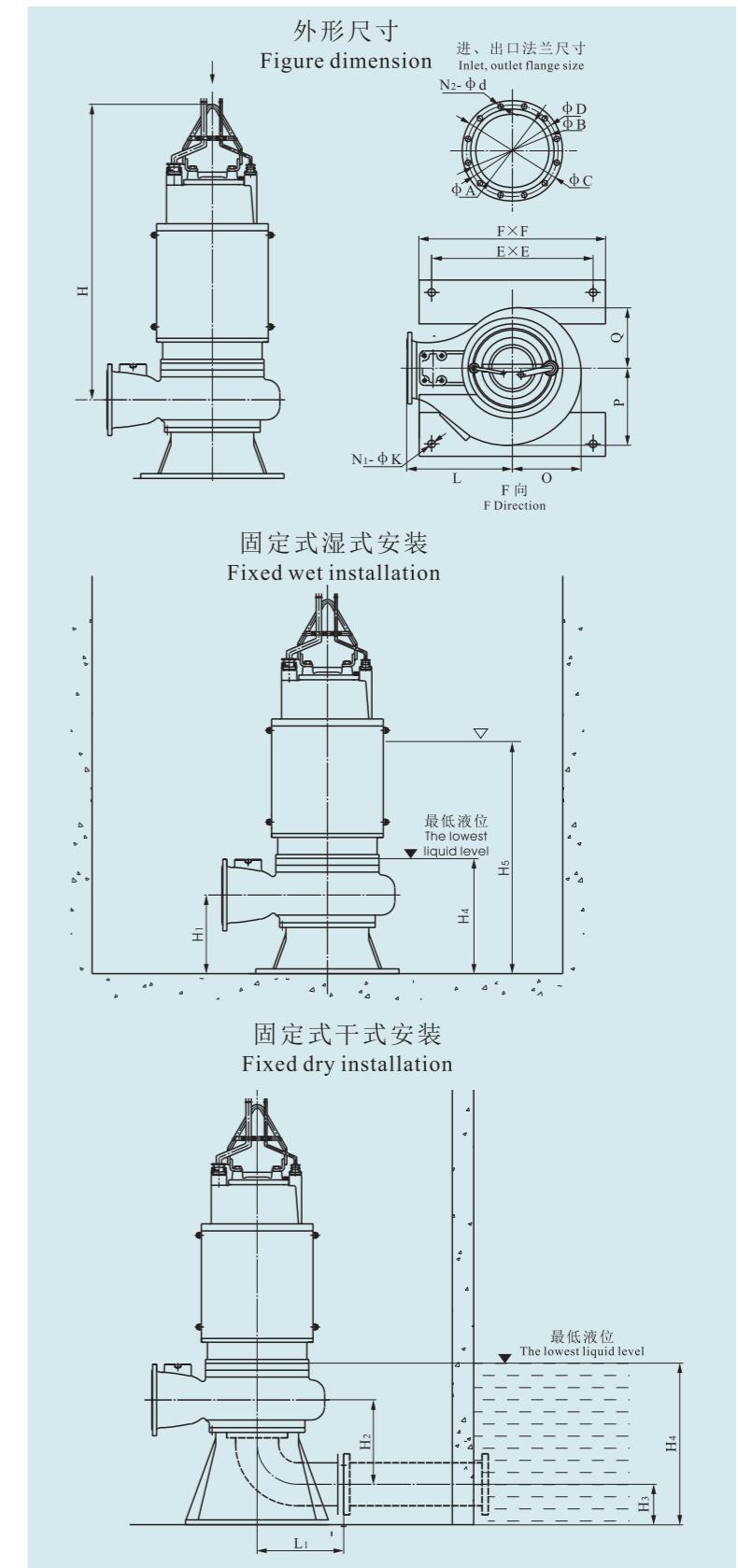


WQ型泵固定式安装尺寸表 WQ TYPE PUMP FIXED INSTALLATION DIMENSIONS TABLE -

序号 No.	型号 Type	外型尺寸 (Figure dimension)												
		ΦA	ΦB	ΦC	ΦD	N2-Φd	H	O	P	Q	L	E×E	F×F	N1-Φk
78	400WQ2000-40-315	400	482	565	515	16-Φ26	2485	600	645	548	850	1100×1100	1200×1200	4 - Φ 50
79	400WQ2000-45-355	400	482	565	515	16-Φ26	2485	600	645	548	850	1100×1100	1200×1200	4 - Φ 50
80	500WQ2000-7-55	500	585	670	620	20-Φ26	1815	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
81	500WQ2200-8-75	500	585	670	620	20-Φ26	1815	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
82	500WQ2200-10-90	500	585	670	620	20-Φ26	2005	491	399	574	1000	1100×1100	1200×1200	4 - Φ 50
83	500WQ2200-12-110	500	585	670	620	20-Φ26	2005	491	399	574	1000	1100×1100	1200×1200	4 - Φ 50
84	500WQ2200-15-132	500	585	670	620	20-Φ26	2005	491	399	574	1000	1100×1100	1200×1200	4 - Φ 50
85	500WQ3000-11-132	500	585	670	620	20-Φ26	2305	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
86	500WQ3000-13-160	500	585	670	620	20-Φ26	2305	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
87	500WQ3000-15-185	500	585	670	620	20-Φ26	2305	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
88	500WQ3000-16-200	500	585	670	620	20-Φ26	2305	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
89	500WQ3000-18-220	500	585	670	620	20-Φ26	2530	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
90	500WQ3000-21-250	500	585	670	620	20-Φ26	2530	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
91	500WQ3000-24-280	500	585	670	620	20-Φ26	2530	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
92	600WQ3000-8-110	600	685	780	725	20-Φ30	2305	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
93	600WQ3000-10-132	600	685	780	725	20-Φ30	2305	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
94	600WQ4000-10-160	600	685	780	725	20-Φ30	2305	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
95	600WQ4000-11-185	600	685	780	725	20-Φ30	2305	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
96	600WQ4000-12-200	600	685	780	725	20-Φ30	2305	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
97	600WQ4000-14-220	600	685	780	725	20-Φ30	2305	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
98	600WQ4000-16-250	600	685	780	725	20-Φ30	2530	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
99	600WQ4000-18-280	600	685	780	725	20-Φ30	2530	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50
100	600WQ4000-20-315	600	685	780	725	20-Φ30	2530	705	575	815	1000	1100×1100	1200×1200	4 - Φ 50

WQ SERIES SUBMERSIBLE SEWAGE PUMP

WQ型泵固定式安装尺寸表 WQ TYPE PUMP FIXED INSTALLATION DIMENSIONS TABLE



使用、检查与维修 Use, check and service

1、使用注意事项

泵不宜在易燃、易爆的介质环境中使用，也不宜抽送可燃性液体。

严禁撞击、压延电缆，严禁将电缆线当起吊绳使用。泵运行时不得随意拉扯电缆，以免损坏电缆发生触电事故或降低电缆密封性、降低电机接线腔绝缘性能。

当采用固定式自动耦合安装时，用吊链栓住两个吊环螺钉，上下起吊泵，注意轻起轻放。

泵放入水中时应垂直起吊，不允许横放着地，更不能陷入污泥中。

吐出管路上应装流量调节阀，避免流量过大导致电机过载。

2、使用前的检查

仔细检查泵在运输、存放、安装过程中有无变形或损坏，紧固件是否松动或脱落。

检查电缆线有无破损、折断，电缆线的引出口密封是否完好，发现有可能漏电及密封不良之处应及时妥善处理。

用500V兆欧表测量电机相间和相对地间的绝缘电阻，其值不应低于2兆欧，否则应对电机定子绕组进行干燥处理，干燥处理的温度不得超过120℃。

检查油室上的螺塞和密封垫片是否齐全。检查螺塞是否已将密封垫片压紧。

检查叶轮转动是否灵活。

检查电源装置是否安全可靠、正常、检查电缆中的接地线是否已可靠接地。

泵放入池中之前须先进行点动检查转向是否正确，如转向不对，应立即切断电源，调换电控柜中接U、V、W的三相电缆中的任意两相。

1.Precautions at use

It is not proper to use the pump in a medium environment easy to explode and burn and to extract any combustible liquid.

It is strictly prohibited to impact or press the cable and use it as a lifting rope, and pull it at will when the pump is running so as not to damage it , which may result in an electric shock, or lowering the cable sealness, or the insulation performance of the wiring box of the motor.

When to use the way of fixed automatic couloing installation, lift or lower down the pump with the screw of the two hand ringand take care to handle it.

The pump has to be vertically lifted when it is placed in water and not horizontally landed, further more, not sunk into sludge.

A flow regulating valve must be equipped with the spitting pipeline to avoid overload of the motor due to a too heavy flow.

2.Check before use

Carefully check if there is any deformation or damage with the pump and any looseness or fall-off with the fasteners during transport, storage and installation.

Check if any damage or fracture with the cable, if the seal on its outlet intact and make a proper treatment in time if any possible leakage or bad seal is found.

Measure the dielectric resistance between the phases and between the phase and ground with a 500V megohm 2 meter, the value of which has not to be lower than megohm, otherwise a drying treatment must be taken for the stator winding of the motor with a temperature not over 120℃ .

Check if there is oil in the oil chamber and do not stop filling it until it overflows on the filler.

Check if the screw cork and sealing pad on the oil chamber are full and if the screw cork presses the sealing pad tightly.

Check if the impeller rotates flexibly.

Check if the power device safe, reliable or normal and if the grounding wire inside of the cable reliably grounded.

Before placing the pump in the pool, check if it is in a correct. Direction of rotation by way of dot moving and cut off the power and change the U,V, W three wires with any two of which in the electric control cabinet if not correct.

使用、检查与维修 Use, check and service

3.Starting

Close the flow regulating valve on the spitting pipeline at starting and gradually open it when the pump gets in the full speed running. Note the pump can not run for a long time with the valve closed.

4.Stopping

Lift the pump, clean it and place it in a dry place when intended not to use it up to half a month and lift it out of the water and let the liquid inside of it drain out to prevent it from being frozen when the temperature is very low.

5.Check

电机相间和相对地间的绝缘电阻，其值不低于2兆欧，否则应拆机检修，同时应检查接地是否牢固可靠。

泵在规定的工作介质条件下正常运行半年后，应检查油室状况，如油室中的油呈乳化状态，应及时更换N10机械油。如果换油运行很短时间漏水检测探头立即报警，可能泵侧机械密封已经损坏，应更换机械密封。对于在恶劣工作条件下使用的泵，更应经常检修。

在正常工作条件下泵工作一年后，应进行一次大修，更换已磨损的易损件并检查紧固件，同时应补充或更换轴承润滑脂，保证泵在运行过程中的良好润滑。

需拆卸时不得猛敲猛打以免损坏密封件。非熟练技工不要随便拆卸泵以免造成泵泄露或电机损坏。

After one year work of the pump under the normal working condition, a big overhaul must be taken for replacing the worn-out parts, checking the fasteners and supplementing or replacing the grease on the bearing so as to ensure a good lubrication of the pump during its running.

To disassemble, do not knock at it at will in order to avoid damaging the seal and do not allow non-skilled persons to do that in order not cause it leaking or the motor damaged.

故障原因及排除方法 Failures causes and troubleshooting

故障现象 Failure	可能产生的原因 Possible causes	排除方法 Troubleshooting
1、流量不足或不出水 Flow not enough or not water out	a)叶轮反转 Impeller reversely rotates b)流道堵塞 Geat blocked up c)被抽介质浓度过大 Too high concentration of the medium to be extracted d)装置扬程太高 Too high head e)叶轮严重磨损 Impeller seriously worn out	a)纠正电机转向 Correct its direction b)清除杂物 Get rid of foreign matters c)用水冲稀降低浓度 Get it thinned with water d)改泵或降低装置扬程 Change the pump or lower the head e)更换叶轮 Replace it
2、不能起动 Unable to start	a)缺相 Lack of phase b)叶轮卡住 Impeller blocked c)绕组接头或电缆断路 Circuit breaking of winding joint or cable d)定子绕组烧坏 Stator winding burnt e)电器控制故障 Electric control fault	a)检查线路 Check the circuit b)清除杂物 Get rid of foreign matters c)用欧姆表检查修复 Check and repair with an ohmmeter d)进行修理, 更换绕组 Repair or replace it e)检查控制柜, 修理后调换电器零件 Check electric control cabinet and replace faulty components
3、定子烧坏 Stator burnt	a)缺相运行 Running with phase lack b)被抽介质浓度过大 Too high concentration of the medium extracted c)叶轮卡死或松动 Impeller blocked or loose d)密封损坏电机进水 Seal damaged and water going in the motor e)紧固件松动造成电机进水 Fasteners loose to make water in the motor	修理好电机后, 使用前必须: After repair, it is required before use: a)查清线路, 清除故障 To check the circuit and clear off the failures b)用水稀释 Get it thinned with water c)清除脏物, 拧紧叶轮紧固螺钉 Get rid of dirt, tighten the screws on impeller d)更换机械密封或“O”型密封圈 Replace mechanical seal or "O"-ring seal e)拧紧各部紧固件 Tighten fasteners on every part
4、电流过大 Too heavy current	a)管道、叶轮被堵 Pipeline, impeller blocked up b)抽送液体的密度或粘度较高 Too high density or viscosity of the liquid extracted c)流量过大 Too heavy flow	a)清理管道和叶轮中的堵塞物 Clear up both b)改变抽送液体的密度或粘度 Change either of both c)关小出口阀, 减小流量 Close the outlet valve a little to reduce the flow



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- 技术培训
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- 维护修理保养
- 设备升级改进

服务承诺

- 合同签约后，在安装期间本公司将派人无偿到现场协助安装及调试；
- 如您按说明书正确使用上海连成牌水泵能确保您使用满意，万一发生异常情况，即请拨打服务热线，我们将为您提供优质的售后服务，给予你满意的答复；
- 产品保修期为一年，一年之内如产品出现质量问题，本公司将实行三包；一年以后出现产品质量问题，本公司提供无偿的技术服务，需方单位自购零配件；
- 产品售出后，本公司将终生与客户保持联系，听取使用意见，以便使产品质量更加完善；
- 本公司将定期与定购单位保持联系，定期回访，以确保定购单位使用的设备运行处于良好状态。

Service Network

With a strong team of sales promotion and after-sales-service,Liancheng established more than 350 nation wide branches in various large and middle.

Service Items

- Technical training
- Equipment evaluation
- Installation and adjustment
- Trouble-shooting
- Maintenance and repairing
- The modification & improvement of equipment

Service Promise

After signing the contract, technical persons will be dispatched to the instant site to help install and adjust equipment, which is free of charge.

In case the equipment is manipulated in accordance with instruction of tech manual, Shanghai Liancheng will guarantee the products. If something abnormal occurred, please contact us. Shanghai Liancheng will provide consider. Within the warrant period of 1 year, if products have quality problems, Liancheng will provide charge-free services.

After warrant period, if quality problems occur, will provide the charge-free technical support, the components and parts should be bought by customers.

After the products are purchased, Shanghai Liancheng will keep lifelong contact with the customers, listening comments from customers so as to Improve quality in pump performance.

Shanghai Liancheng will keep regular contact with ordering companies so as to have pump running in proper order.

境内售后服务请与我公司当地售后联系或总部：021-59136786

For the domestic post-sale service,please contact the local post-sale service and the headquarter: 021-59136786

境外销售和售后服务请联系：+86 21 59136780

For the abroad sale and post-sale service, please contact: +86 21 59136780

驻外机构: _____

Agency : _____