

S 系列单级双吸卧式中开离心泵

S SERIES SINGLE-STAGE DOUBLE-SUCTION HORIZONTAL SPLIT CENTRIFUGAL PUMP





上海联成（集团）有限公司（LCPUMPS）是国内知名的大型集团企业，其多业务涉及泵，阀门和流体输送系统，电子控制系统和环保设备的研究和生产。

连成集团成立于1993年，经过十年的发展，集团在上海，江苏，浙江等地区拥有五个工业园区，经济发达，占地面积55万平方米。公司总部位于丰邦工业园区，下设几家全资子公司和控股公司：上海联成泵业有限公司，上海联成汽车有限公司，上海联成阀门有限公司，上海联成集团物流有限公司。上海联成集团通用设备安装工程，上海联成环境工程设备有限公司，上海阿美特工业设备有限公司和上海联成集团苏州有限公司，注册资本53.8亿元人民币，总资本达数十亿元人民币，产品种类达3000多种，产品范围从水泵，电机，电柜，阀门，成套设备，机械配件等系列，并且，由于性价比合理，质量可靠，广泛应用于市政工程，水利，建筑，消防，电力，环保，石油，化学等领域工业，采矿和医药。该集团的销售额每年都在行业中排名第一。

集团公司现拥有大型泵测试中心，三坐标测量仪，动态静态测量仪，快速激光成型仪，多功能抛丸机，自动氩弧焊机，大型车床，大型轧机，数控机床等2000多台，遍布全国各地，拥有世界先进的生产和检测设备和4500多名员工，其中72.6%的毕业于大专院校，475名大专，78名高级，

Shanghai Liancheng (Group) Co., Ltd. (LCPUMPS) is a domestic well-known large group enterprise and its multi-operations cover the research and production of pump, valve and fluid transportation system, electronic control system and environmental protection equipments.

Liancheng Group established in year 1993, and 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 Liancheng Environment Engineering Equipment Co. Ltd, Shanghai Ametek Industrial 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, numeral control machine tools etc. more than 2000 sets of various nationwide and world wide advanced production and detection facilities and over 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.

公司概况 CORPORATION OUTLINE

19位国家专家和6位教授。该集团每年都会为技术创新，产品开发和设备进口投入大量资金，到目前为止，它拥有多达600项国家专利技术，并参与了国家和行业标准的起草和编制，涉及水利，化工，消防，城市供水等领域的数十项产品和技术标准。该集团建立了完整的销售和服务网络，由30个分支机构，200多个子机构和2800名专业销售人员和售后服务人员组成，为客户提供特殊的技术支持和良好的商业服务。

通过ISO9001, ISO14001, OHSAS18001等国际管理体系认证，该集团正在努力实施ERP信息管理，并获得了工业，消防，石化，矿业等工业生产许可证。行业组织和I / E企业资质，已通过CCC, CQC产品，CE, UL, 卫生许可证，MA矿山安全，SMA测量资质，节能，CCS，国际标准采用等多项认证。获得社会荣誉，如：国家创新企业，中国驰名商标，上海驰名商标，上海名牌产品，中国名牌大企业，企业在第一批通过泵能源 - 中国XHJS节水企业，上海市高新技术企业，上海市级企业技术中心上海知识产权奖，上海市50强企业，上海市百强企业，国家标准草案企业，中国水行业十大民族品牌等。

随着连城集团的稳步发展，其中的产品得到了用户的广泛认可，并被国内外许多原型项目采用：国家体育场“鸟巢”，国家大剧院，上海世博会，首都机场，广州白云机场，上海地铁，西安地铁，。沈阳地铁，武广高铁长沙李家山高速铁路泵站，香港供水工程深圳沙湾泵站，澳门供水工程珠海平岗泵站，黄河灌溉山西甲玛口泵站，黄河灌溉山西西帆泵站，广东云安六渡泵站，黄河小浪底水利枢纽工程，宁夏黄河灌溉工程，鄂尔多斯市饮水工程，秦山核电，岭澳核电站电力，中国国电集团，中国大唐集团，中国华能集团，宝钢，。首钢集团，唐钢集团，太原钢铁集团，鞍山钢铁集团，新疆八一钢铁，山西焦化集团，潞安矿业，山西咸阳化工，青海盐湖西尔文项目，中国石油大庆油田，中国海洋石油石油公司惠州炼油项目，清华大学，海尔集团和安哥拉农业排水和灌溉项目，缅甸国家农业灌溉项目，以及核电，火电，水电，钢铁，油田，焦化，采矿，化工，炼油，以及由GE，拜耳，西门子，大众，可口可乐等全球知名企业在我国境内设计的项目。

连城集团一直在努力使自己成为世界顶级流体处理企业，并始终如一地珍惜人与自然的和谐，提高人民的生活水平，实现百年持久的伟大目标。连城，致力于开发和制造环保节能产品，促进和促进民族企业的发展和进步！

水，流淌得高而远，只因为连城.....！



創新型企業

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,UL, 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: Innovative Enterprises of Nation, 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, XHJS Water-Saving Enterprise of China, 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, Top 50 powerful manufacturing enterprises of Shanghai, Top 100 industry enterprises of Shanghai, An enterprise qualified for the draft-out of the national standard, Top 10 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 adopted in a lot of domestic and foreign prototype projects: the National Stadium "Bird's Nest", the National Theatre, Shanghai Expo, the Capital Airport, Guangzhou Baiyun Airport, Shanghai Metro, Xi'an Metro, Shenyang Metro, Wuhan-Guangzhou High-speed railway Pump station in Changsha Lijia Hill, Hongkong Water Supply Project Shenzhen Shawan Pump Station, Macao Water Supply Project Zhuhai Pinggang Pump Station, Yellow River Irrigation Shanxi Jiamakou Pump Station, Yellow River Irrigation Shanxi Xifan Pump Station, Guangdong Yun'an Liudu Pump Station, Yellow River Xiaolangdi Water Conservancy Project, Ningxia Yellow River Irrigation Engineering, E'erduosi City Drinking Project, Qinshan Nuclear Power, Ling'ao Nuclear Power, China Guodian Corporation, China Datang Corporation, China Huaneng Group, Baosteel, Shougang Group, Tangsteel Group, Taiyuan Iron & Steel Group, Anshan Iron and Steel Group, Xinjiang Bayi Steel, Shanxi Coking Group, Lu'an Mining Industry, Shanxi Xianyang Chemical Industry, Qinghai Salt Lake Sylvine Project, PetroChina Daqing Oilfield, China National Offshore Oil Corporation Huizhou Refinery Project, Tsinghua University, Haier Group and Angola Agriculture Drainage and Irrigation Project, National Agricultural irrigation project in Myanmar, 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.....!



售後服務證書



國家科技進步獎

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概述 General

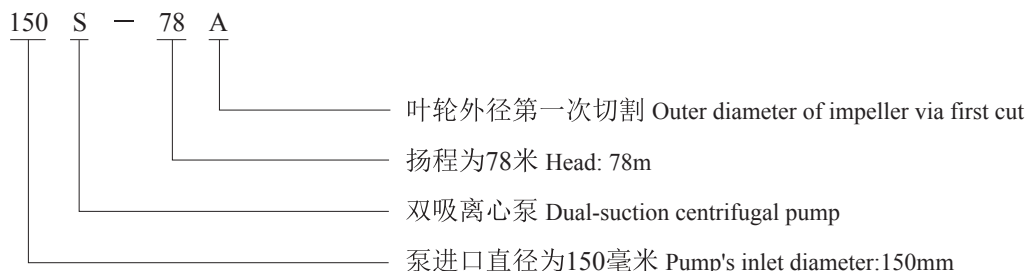
S型泵是单级双吸、卧式中开离心泵。供输送清水及物理化学性质类似于水的液体。液体最高温度不得超过80℃，适合工厂、矿山、城市、电站的给排水，农田排涝灌溉和各种水利工程。

本系列泵符合GB/T3216、GB/T5657标准。

Model S pump is a single-stage double-suction horizontal split centrifugal pump and used to transport pure water and the liquid of both physical and chemical nature similar to those of water, the maximum temperature of which must not be over 80℃, suitable for water supply and drainage in factories, mines, cities and electric stations, waterlogged land drainage and irrigation of farming land and carious hydraulic projects.

This series pump comply with the standards of GB/T3216 and GB/T5657.

型号意义 Model meaning



结构说明 About the structure

本型泵的吸入口与吐出口均在水泵轴心线下方，与轴线垂直呈水平方向，泵壳中开，检修时无需拆卸进水、排出管路及电动机(或其他原动机)。从联轴器向泵的方向看去，水泵为顺时针方向旋转。根据需要也可生产逆时针旋转的泵，但订货时应特殊提出。

本型号的主要零件有：泵体(1)、泵盖(2)、叶轮(3)、轴(4)、双吸密封环(5)、轴套(6)、轴承(15)等。除轴的材料为优质碳素钢外，其余均为铸铁制成。根据介质不同可换其它材质。

泵体与泵盖构成叶轮的工作室，在进、出水法兰上制有安装真空表和压力表的管螺孔，进出水法兰的下部制有放水的管螺孔。

叶轮经过静平衡校验，用轴套和两侧的轴套螺母固定，其轴向位置可以通过轴套螺母进行调整，叶轮的轴向力利用其叶片的对称布置达到平衡，可能还有一些剩余轴向力则由轴端的轴承承受。

泵轴由两个单列向心球轴承支承，轴承装在泵体两端的轴承体内，用黄油润滑。双吸密封环用以减少水泵叶轮处泄漏水。

Both inlet and outlet of this pump are placed under the axial line, horizontally and vertical to the axial line, the pump casing is opened in the middle so it is unnecessary to remove the water inlet and outlet pipelines and motor(or other prime movers). The pump moves CW viewing from the clutch to it. The pump moving CCW can also be made, but it should be specially noted at order.

The main parts of the pump are: pump casing(1), pump cover (2), impeller(3), shaft(4), dual-suction seal ring(5), muff(6), bearing(15) etc. and all of them, except the axle which is made of quality carbon steel, are made of cast iron. The material may be replaced with others upon different media.

Both pump casing and cover form the working chamber of the impeller and there are threaded holes for mounting vacuum and pressure meters on the flanges at both inlet and outlet and for water draining on the lower side of them.

The impeller is static-balance calibrated, fixed with the muff and the muff nuts in both sides and its axial position can be adjusted via the nuts and axial force gets balanced by means of the symmetrical arrangement of its blades, there may be residual axial force which is borne by the bearing at the axle end.

The pump shaft is supported by two single-column centripetal ball bearings, which are mounted inside of the bearing body on both ends of the pump and lubricated with grease. The dual-suction seal ring is used to reduce the leak at the impeller.

水泵通过弹性联轴器与电动机直接传动。(如果必须采用橡胶带传动时, 应另设支架)。

轴封为填料密封, 为了冷却润滑密封腔和防止空气漏入泵内, 在填料之间装有填料环, 水泵工作时少量高压水通过泵盖中开面上的梯形凹槽流入填料腔, 起水封作用。

The pump is driven directly by means of connecting to it via an elastic clutch. (Set up a stand additionally in case of a rubber band driving).

The shaft seal is packing seal and, to cool and lubricate the seal cavity and prevent air from getting into the pump, there is a packing ring between the packing. A small volume of high-pressure water flows into the packing cavity via the tapered beard during the pump's working to act as a water seal.

装配与拆卸 Assembly and disassembly

- 1、装配转子部件: 依次将叶轮、轴套、轴套螺母、填料套、填料环、填料压盖、机封、机封压盖、挡水圈、轴承部件装在泵轴上, 并套上双吸密封环, 然后装上联轴器。
- 2、分别检查转子部件上叶轮的密封部位外圆, 轴套外圆其径向跳动应不超过下表的规定:

名义直径 Nominal diameter	<50	50~120	120~250	250~500	500~800	800~1250
跳动量 Jumping capacity	0.03	0.04	0.05	0.06	0.08	0.10

- 3、将转子部件装在泵体上, 调整叶轮, 使其轴向位置位于两侧双吸密封环的中间后加以固定, 并将轴承体压盖由固定螺钉紧固。
- 4、装上填料(填料密封时), 放好中开面纸垫, 盖上泵盖, 拧紧螺尾锥销后, 拧紧泵盖螺母, 最后装上填料压盖。但不要将填料压得太紧, 填料过紧会使轴套发热, 耗费功率较大; 也不要压得太松, 过松会使液体渗漏大, 水泵效率降低。使用机械密封时, 调整机封压缩量, 使其无泄漏。
装配完成后, 用手转动泵轴, 没有擦碰现象, 转动比较轻滑均匀即可。拆卸可按上述装配顺序相反地进行。

1. Assembly of the rotor's parts: in turn mount the impeller, muff, muff nut, packing sleeve, packing ring, packing gland, mechanical seal, mechanical seal gland, water retaining ring and bearing on the pump shaft, put on the dual-suction seal ring and then the clutch.
2. Check the outer circles of the impeller's seal and the muff on the rotor separately, the radial jumping of which should not be over the settings in the table below.

- 3、Mount the rotor on the pump casing and adjust the impeller to have its axial position in the middle of the dual-suction seal ring in both sides and then fixed, then fix the gland of the bearing's body with the fixing screws.
- 4、Put on the packing(in case of a packing seal), the paper pad on the middle opened face and the pump cover and tighten the threaded-tail conical pin first and then cover's nut. Mount the packing gland, but do not press the packing too tightly, otherwise the muff may get heated to leave a bigger power consumption; while not too loose, or a big leak of liquid and reduced pump efficiency may result in. If mechanical seal is used, adjust compress capacity of mechanical seal to ensure no leak with it.
After assembly, move the pump shaft with hand, it should be smooth and uniform without touch. Disassembly can be made with the steps contrary to above ones.

安 装 Installation

- 1、检查水泵和电动机应无损坏。
- 2、水泵的安装高度, 加上吸入管路的水力损失, 及其速度能即为装置汽蚀余量NPSHa, NPSHa要大于NPSHr。基础尺寸应符合泵机组的安装尺寸
- 3、安装顺序:

- 1、Check both pump and motor to see if any damages with them.
- 2、The installation height of the pump plus the hydraulic loss of the suck-in pipeline and its speed energy is just the NPSHa of the unit, which should be bigger than NPSHr. The dimensions of the basis should be in line with those of installation of the pump unit.
3. Installation sequences:

- (1)将水泵放在埋有地脚螺栓的混凝土基础上，用调整其间的楔形垫块的方法校正水平，并适当拧紧地脚螺栓，以防松动；
- (2)在基础与泵底脚之间灌注混凝土；
- (3)待混凝土干固后，拧紧地脚螺栓，并重新检查水泵的水平度；
- (4)校正电动机轴与水泵轴的同心度。使两轴成一直线，在两联轴器外圆上的不同心度允差为0.1毫米，端面间隙沿圆周的不均匀允差0.3毫米(在联接进水管路及试运行后再分别校核一遍，仍应符合上述要求)；
- (5)在检查电动机转向与水泵的转向相一致后，装上联轴器的联接柱销。
- 4、进水管路应另设支架支撑，不得籍泵本体支承。
- 5、水泵与管路之间的结合面，应保证良好的气密性，尤其是进水管路，必须保证严格的不漏气，并且在装置上应无窝存空气的可能。
- 6、如水泵安装在进水水位以上时，为了灌泵起动，一般可装底阀，也可采用真空泵引水的方法。
- 7、水泵的出水管路中，一般需装闸阀和止回阀(扬程小于20米的可不用)，止回阀装在闸阀后面。

以上所述的安装方法是指不配带公共底座的水泵机组。

安装配带公共底座的泵，用调整底座与混凝土基础之间的楔形垫铁来校正机组的水平，然后在其间灌注混凝土。其安装原则与要求，和不配带公共底座的机组相同。

- (1) Place the pump on the concrete basis with built-in foot bolts, correct the levelness with the method adjusting the wedge cushion block and properly tighten the bolts to prevent them from displacement.
- (2) Grout concrete between the basis and the pump foot.
- (3) After the concrete gets solidified, tighten the foot bolts and check the pump's levelness again.
- (4) Correct the concentricity between the axles of both pump and motor to have them in a straight line. The allowed tolerance of the non-concentricity of the outer circles of two clutches is 0.1mm and the one of the non-uniform end-face intervals along with the circumference is 0.3mm(another correction of which after both water inlet and outlet pipelines are connected and a trial movement, the above requirements should also be met with).
- (5) After finding out the rotating direction of the motor is identical to that of the pump, mount the link pin of the clutch.
- 4、Both water inlet and outlet pipelines should be supported by a separate stand and not by the pump body.
- 5、A good air tightness of the combined face between both pump and pipeline should be kept, especially the inlet pipeline, it must be guaranteed without air leak and without the possibility for air to be nested on the unit.
- 6、In general, a foot valve can be mounted if the pump is mounted above the water level of the water inlet so as to start the pump with priming, it can also use the way of vacuum pump water leading.
- 7、In general gate valve and check valve are required to be mounted in the water outlet pipeline of the pump(unnecessary for those of a head less than 20m), with the check valve mounted after the gate valve.

The above ways of installation mean the pump without a common foundation.

For the pump with a common foundation, use the wedge-iron-pad between both foundation and concrete to correct the levelness of the unit, then grout concrete between them. The installation principle and requirements are the same as those for the pump without a common foundation.

起动、停止和运行 Start、stop and run

1. 起动与停止

- (1)起动前，转动泵的转子，应该轻滑均匀；
- (2)关闭出水闸阀，向泵内注水(如无底阀则用真空泵抽吸引水)，要保证泵内充满水，无空气窝存；

1. Start and stop

- (1) Before starting, move the rotor of the pump, which should be felt light, smooth and uniform.
- (2) Close the water outlet valve, prime water into the pump (lead water by extracting with a vacuum pump in case of no foot valve). Ensure the pump full of water and no air nested inside of it.

- (3) 如果泵上装有真空表或压力表，要关闭其与泵相连接的旋塞再启动电动机，待转速正常后再打开；然后逐渐打开出水闸阀，如流量过大，可以适当关小闸阀进行调节；反之，流量过小时，将闸阀开大；
- (4) 均匀地拧紧填料压盖上的压紧螺母，使液体成滴状漏出，同时注意填料腔外的温升；
- (5) 当停止水泵运转时，要先关闭真空表及压力表的旋塞和出水管路上的闸阀，然后切断电动机的电源，如所处环境的温度较低时，则应将泵体下部的四方螺塞打开，去掉剩水，以免冻裂；
- (6) 长期停止使用时，应拆开水泵，将零件上的水擦干，在加工表面涂上防锈油保管好。

2、运转：

- (1) 水泵轴承最高温度不应超过75℃；
- (2) 润滑轴承用的钙基黄油数量以占轴承体空间的1/3～1/2为宜；
- (3) 填料磨损时可适当压紧填料压盖，若磨损过多应予更换；
- (4) 定期检查弹性联轴器部件，注意电机轴承温升；
- (5) 运转过程中，如发现噪声或其他不正常的声音时，应立即停车，检查其原因，加以消除；
- (6) 不得任意提高水泵的转速，但可以降低转速使用，如本型泵额定转速 n ，流量为 Q ，扬程为 H ，轴功率为 N ，降低转速为 n_1 ，降低后流量、扬程、轴功率分别为 Q_1 、 H_1 和 N_1 ，其相互关系，可用下列公式进行换算：

$$Q_1 = \left(\frac{n_1}{n} \right) Q$$

$$H_1 = \left(\frac{n_1}{n} \right)^2 H$$

$$N_1 = \left(\frac{n_1}{n} \right)^3 N$$

- (3) First close the plug of a vacuum or pressure meter, if so mounted on the pump, connected to the pump before starting the motor and then open it when the motor move in the normal speed; next, gradually open the water outlet gate valve and make it smaller in case of a large flowrate or bigger or bigger on the contrary.
- (4) Uniformly tighten the pressing nut on the packing gland to have liquid leak in drops and pay attention to the temperature rise outside of the packing cavity.
- (5) When to stop the pump, first close the plug of the vacuum or pressure meter and the gate valve on the water outlet pipeline, then cut off the power of the motor. Open the square screw plug on the lower side of the pump casing to let the residual water out to prevent frozen cracking in case of a lower ambient temperature.
- (6) In a long time stop, remove the pump and dry the parts and coat rust-proof grease on the processed surface.

2. Running

- (1) The maximum temperature of the pump's bearing must not be over 75℃.
- (2) It is proper for the volume of the calcium-based grease lubricating the bearing to hold a space inside of the bearing body by 1/3～1/2.
- (3) Properly press the packing gland in case of a little bit wear and replace it in case of too much wear.
- (4) Take a periodic check of the elastic clutch and take care of the temperature rise with the motor's bearing.
- (5) During running, stop it at once when noise or other abnormal sound is heard to find the cause and settle it.
- (6) Do not raise the pump speed at will, but lowering it is allowed. For instance, with this type of pump, the rated rotating speed is n , flowrate is Q , head is H , axle power is N , lowered speed is n_1 , the flowrate, head and axle power after speed lowering are Q_1 , H_1 and N_1 , respectively. Make conversion by means of the following formula.

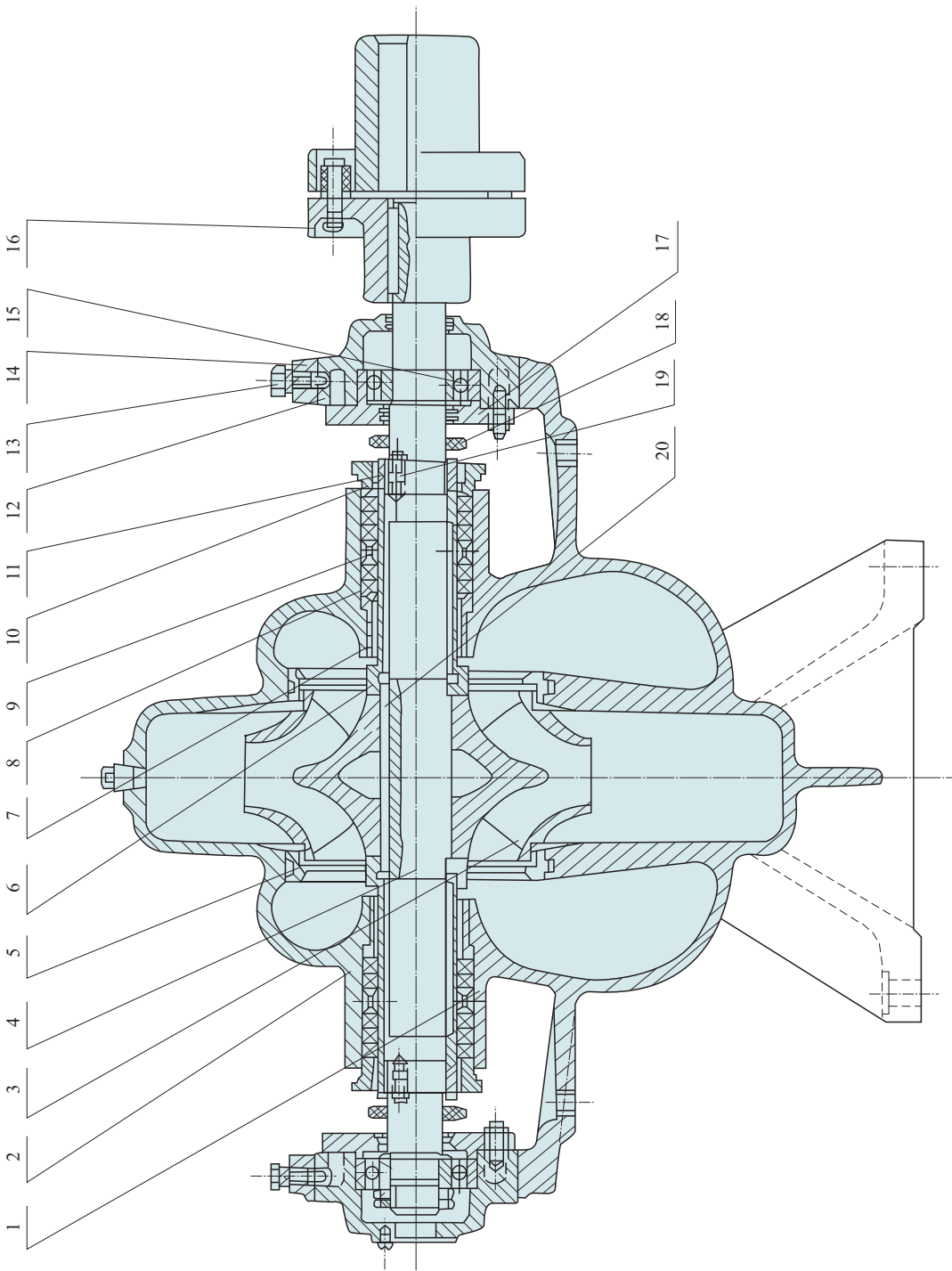
故障原因及排除方法 Failures causes and troubleshooting

故障 Failure	原因 Causes	消除方法 Troubleshooting
(一)泵不吸水，压力表及真空表的指针剧烈跳动。 Pump not suck water, indicator of pressure and vacuum meters severely jumps.	1.注入的水不够； Injected water insufficient; 2.管路或仪表漏气。 Leak occurs with pipeline or meter.	1.再往泵内注水； Inject more water; 2.拧紧堵塞漏气处。 Tighten or block up the leak point.
(二)泵不吸水，真空表显示高度真空。 Pump not suck water, high vacuum is shown on vacuum meter.	1.底阀没打开或已淤塞； Foot valve not opened or blocked up; 2.吸水管路的阻力太大； Too big resistance with suction pipeline; 3.吸水高度太高。 Too high water-suction height.	1.校正或更换底阀； Correct or replace foot valve; 2.清洗或更换吸水管路； Rinse or replace pipeline; 3.降低吸水高度。 Lower the height.
(三)泵不出水，压力表显示有压力。 No water out of pump, pressure is shown on pressure meter.	1.出水管路阻力太大； Too big resistance with water outlet pipeline; 2.旋转方向不对； Wrong rotating direction; 3.叶轮堵塞； Impeller blocked up; 4.转速不够。 Rotating speed not enough.	1.检查或缩短出水管路； Check or shorten pipeline; 2.纠正电动机的旋转方向； Correct the direction of motor; 3.清洗叶轮； Clean it; 4.检查电源电压，提高转速。 Check power voltage and raise the speed.
(四)流量不足或扬程太低。 Flowrate insufficient or too low head.	1.叶轮或进水管路阻塞； Impeller or both water inlet and outlet pipelines blocked up; 2.双吸密封环磨损过多，或叶轮损坏； Too much wear with dual-suction seal ring or impeller damaged; 3.转速低于规定值。 Rotating speed is lower than the set value.	1.清洗叶轮或管路； Clean impeller or pipeline; 2.更换损坏的零件； Replace it; 3.调正至额定转速。 Adjust it to the rated value.
(五)泵消耗的功率过大。 Too large consumption of power by pump.	1.填料压得太紧； Too tightly pressed packing; 2.叶轮与双吸密封环摩擦； Friction between impeller and dual-suction seal ring; 3.流量过大。 Too large flowrate.	1.拧松填料压盖； Loosen it; 2.检查原因，消除机械摩擦； Check the cause to remove it; 3.减小闸阀开度。 Reduce the opening gate valve.

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

故障 Failure	原因 Causes	消除方法 Troubleshooting
(六)泵内部声音反常，泵不上水。 Abnormal sound inside of pump, no water goes upward into pump.	1.吸水管阻力过大; Too big resistance with suction pipeline; 2.吸水高度过高; Too high suction height; 3.吸水处有空气吸入; Air is sucked into the water suck-in place; 4.所吸送液体温度过高; Too high temperature with the liquid being sucked; 5.流量过大而产生汽蚀现象。 Steam loss occurs due to a too large flowrate.	1.清理吸水管路及底阀; Make up suction pipeline and foot valve; 2.降低吸水高度; Lower it; 3.检查底阀; 降低吸水高度, 堵塞漏气处; Check foot valve, lower suction height, block up the air leak place; 4.降低液体温度; Lower it; 5.调节出水闸阀, 使之在规定的性能范围内运转。 Adjust water outlet gate valve to have it run within the set range of performance.
(七)泵不正常振动。 Abnormal vibration with pump.	1.泵发生了汽蚀; Steam loss occurs with it; 2.叶轮不平衡; Impeller is unbalanced; 3.泵轴与电动机轴不同心; Both pump and motor axles are not concentric; 4.底脚螺栓松动。 Foot stud loose.	1.调节出水闸阀, 使之在规定的性能范围内运转; Adjust the valve to have it run within the set range of performance; 2.叶轮校正静平衡; Take static correction for impeller; 3.校正泵轴与电动机轴的同轴度; Correct the concentricity; 4.拧紧底脚螺栓。 Tighten it.
(八)轴承过热。 Bearing over heated.	1.轴承内没有油; Lack of oil inside of it; 2.泵轴与电机轴不在同一中心线上。 Both pump and motor axles not on one central line.	1.检查并清洗轴承体, 加润滑油; Check and clean bearing body, lubricate it; 2.校正两轴的同轴度使在同一中心线上。 Correct the concentricity to have both on one central line.

S型泵结构图 S model pump structural drawing



1	泵体 Pump casing	2	泵盖 Pump cover	3	叶轮 Impeller	4	轴 Shaft	5	双吸密封环 Dual-suction seal ring	6	轴套 Muff	7	填料套 Packing sleeve	8	填料 Packing	9	填料环 Packing ring	10	填料压盖 Packing gland
11	轴套螺母 Muff nut	12	轴承体 Bearing body	13	固定螺钉 Fixing screw	14	轴承体压盖 Gland of bearing body	15	单列向心球轴承 Single-column centripetal ball bearing	16	联轴器部件 Clutch	17	轴承端盖 End cap of bearing	18	挡水圈 Water retaining ring	19	螺栓 Stud	20	键 Key

S型泵性能参数 S type pump performance data

泵型号 Pump type	流量Q		扬程 H (m)	转速 n (r/min)	功率 N(kW)		效率 η (%)	必须汽 蚀余量 (NPSH) _r (m)	重量 Weight (kg)
	(m³/h)	(L/s)			轴功率 Shaft power	电机 Motor			
150S-100	120 160 192	33.3 44.4 53.3	103 100 92	2950	48.8 59.7 67.7	75	69 73 71	4.5	168
150S-78	126 160 198	35.0 44.4 55.0	84 78 70	2950	41.2 45.9 53.1	55	70 74 71	4.5	158
150S-78A	112 140 180	31.1 39 50.0	65 60 53.5	2950	29.1 31.8 37.5	45	68 72 70	4.5	158
150S-50	130 160 220	36.1 44.4 61.1	52 50 40	2950	25.2 27.6 31.5	37	73 79 76	4.5	147
150S-50A	112 140 180	31.1 38.9 50.0	42 39 34	2950	18.3 19.8 22.8	30	70 75 73	4.5	147
150S-50B	108 133 160	30.0 36.9 44.4	38 36 32	2950	16.9 18.4 19.4	22	66 71 72	4.5	147
200S-95	200 280 324	55.6 77.8 90.0	102 95 85	2950	81.7 94.0 100.0	132	68 77 75	5	240
200S-95A	180 268 310	50.0 74.4 86.1	95 87 78	2950	71.6 84.6 90.2	110	65 75 73	5	240
200S-95B	165 245 298	45.8 68.1 82.8	81 72 60	2950	56.4 64.9 69.5	75	64.5 74 70	5	240
200S-63	216 280 351	60.0 77.8 97.5	70.4 63 52	2950	55.9 59.3 69.0	75	74 81 72	5	187
200S-63A	186 270 332	51.7 75.0 92.2	56.5 48 38.5	2950	41.5 45.8 49.0	55	69 77 71	5	187
200S-42	216 280 342	60.0 77.8 95.0	48 42 35	2950	35.3 37.7 41.0	45	80 85 79.5	5	219
200S-42A	198 270 310	55.0 75.0 86.1	43 36 31	2950	31.3 33.1 34.6	37	74 80 75.5	5	219
250S-65	360 485 612	100.0 134.7 170.0	70 65 54	1480	91.5 108.6 127.6	132	75 79 70.5	3.8	518
250S-65A	300 420 535	83.3 116.7 148.6	53 48 40	1480	61.8 71.3 79.8	90	70 77 73	3.8	518
250S-39	360 485 612	100.0 134.7 170.0	43 39 32.5	1480	55.4 62.0 69.4	75	76 83 78	3.8	400
250S-39A	324 420 576	90.0 116.7 160.0	31.5 29 22	1480	38.6 42.5 48.6	55	72 78 71	3.8	400
250S-24	360 485 576	100.0 134.7 160.0	27 24 19	1480	33.1 36.8 36.3	45	80 86 82	3.8	305
250S-24A	342 420 482	95.0 116.7 133.9	22 20 17	1480	25.9 27.6 27.9	37	79 83 80	3.8	305
250S-14	360 485 576	100.0 134.7 160.0	17 14 11	1480	20.8 21.7 22.1	30	80 85 78	3.8	305
250S-14A	320 420 505	88.9 116.7 140.3	12 10 8.2	1480	13.2 14.1 14.5	18.5	79 81 78	3.8	305

S型泵性能参数 S type pump performance data

泵型号 Pump type	流量Q		扬程 H (m)	转速 n (r/min)	功率 N(kW)		效率 η (%)	必须汽 蚀余量 (NPSH) _r (m)	重量 Weight (kg)
	(m ³ /h)	(L/s)			轴功率 Shaft power	电机 Motor			
300S-90	590 790 936	163.9 219.4 260.0	95 90 86	1480	224.4 251.4 277.4	315	68 77 79	4.8	840
300S-90A	576 756 918	160.0 210.0 255.0	83 78 72	1480	200.2 216.9 239.9	280	65 74 75	4.8	840
300S-90B	546 720 900	151.7 200.0 250.0	72 67 57	1480	169.9 185.0 194.0	220	63 71 72	4.8	840
300S-58	576 790 972	160.0 219.4 270.0	65 58 50	1480	135.9 148.5 165.4	185	75 84 80	4.8	599
300S-58A	529 735 893	146.9 204.2 248.1	55 50 42	1480	110.0 122.0 129.2	160	72 82 79	4.8	599
300S-58B	504 685 835	140.0 190.3 231.9	47.2 43 37	1480	91.2 100.2 109.2	132	71 80 77	4.8	599
300S-32	612 790 900	170.0 219.4 250.0	36.5 32 27.3	1480	74.2 79.1 83.6	90	82 87 80	4.8	709
300S-32A	537 700 790	149.2 194.4 219.4	29 26 22.5	1480	53.7 59.0 62.0	75	79 84 78	4.8	709
300S-19	612 790 935	170.0 219.4 259.7	22 19 15.5	1480	45.8 48.4 52.6	55	80 84.5 75	4.8	434
300S-19A	485 700 798	134.7 194.4 221.7	18 15 13	1480	32.1 35.7 37.2	45	74 80 76	4.8	434
300S-12	612 790 900	170.0 219.4 250.0	14.5 12 10	1480	30.2 31.1 33.1	37	80 83 74	4.8	413
300S-12A	515 700 785	143.1 194.4 218.1	11.5 10 9	1480	22.4 24.4 25.6	30	72 78 75	4.8	413
350S-125	850 1260 1660	236.1 350.0 461.1	135 125 110	1480	446.3 542.7 685.6	710	70 79 72.5	5.5	1580
350S-125A	787 1181 1550	218.6 328.1 430.6	121 112 100	1480	381.2 461.6 594.3	630	68 78 71	5.5	1580
350S-125B	700 1098 1350	194.4 305.0 375.0	104 96 89	1480	300.3 372.7 448.0	500	66 77 73	5.5	1580
350S-75	972 1260 1440	270.0 350.0 400.0	80 75 69	1480	264.6 302.6 329.9	355	80 85 82	5.5	1200
350S-75A	900 1170 1332	250.0 325.0 370.0	70 65 60	1480	219.9 252.5 275.4	315	78 82 79	5.5	1200
350S-75B	800 1080 1200	222.2 300.0 333.3	60 55 52	1480	174.2 204.7 220.6	280	75 79 77	5.5	1200
350S-44	972 1260 1476	270.0 350.0 410.0	50 44 37	1480	163.3 177.6 188.2	220	81 85 79	5.5	1105
350S-44A	876 1116 1360	243.3 310.0 377.8	41 36 30	1480	123.8 131.8 140.6	160	79 83 79	5.5	1105
350S-26	972 1260 1440	270.0 350.0 400.0	29 26 22	1480	93.6 101.3 102.7	132	82 88 84	5.5	672

S型泵性能参数 S type pump performance data

泵型号 Pump type	流量Q		扬程 H (m)	转速 n (r/min)	功率 N(kW)		效率 η (%)	必须汽 蚀余量 (NPSH) _r (m)	重量 Weight (kg)
	(m³/h)	(L/s)			轴功率 Shaft power	电机 Motor			
350S-26A	840 1130 1260	233.3 313.9 350.0	24 21 19	1480	70.4 77.8 81.5	90	78 83 80	5.5	672
350S-16	960 1260 1440	266.7 350.0 400.0	19.5 16 13	1480	61.4 63.8 67.9	75	83 86 75	5.5	632
350S-16A	800 1130 1340	222.2 313.9 372.2	15 12 9.5	1480	42.4 45.6 48.1	55	77 81 72	5.5	632
400S-90	1140 1620 1980	316.7 450.0 550.0	102 90 78	1480	403.2 461.5 512.7	560	78.5 86 82	7.9	1910
400S-90A	1020 1460 1850	283.3 405.6 513.9	89 78 66	1480	320.9 369.1 415.5	450	77 84 80	7.9	1910
400S-90B	960 1330 1720	266.7 369.4 477.8	78 68 56	1480	268.2 300.2 336.2	400	76 82 78	7.9	1910
400S-40	800 1080 1320	222.2 300.0 366.7	45 40 32	970	124.1 140.0 149.3	185	79 84 77	4.9	1800
400S-40A	720 960 1150	200.0 266.7 319.4	39.5 35 29.5	970	100.5 111.5 121.5	160	77 82 76	4.9	1800
500S-98	1620 2020 2340	450.0 561.1 650.0	104.5 98 92	970	598.5 673.6 741.8	800	77 80 79	6	2360
500S-98A	1500 1872 2170	416.7 520.0 602.8	88 83 77	970	479.1 535.4 583.1	630	75 79 78	6	2360
500S-98B	1400 1746 2020	388.9 485.0 561.1	79 74 71	970	401.4 448.1 500.5	560	75 78.5 78	6	2360
500S-59	1620 2020 2340	450.0 561.1 650.0	64 59 53	970	357.3 390.9 422.0	450	79 83 80	6	-
500S-59A	1500 1872 2170	416.7 520.0 602.8	53 49 45	970	288.6 316.1 345.2	400	75 79 77	6	-
500S-59B	1400 1746 2020	388.9 485.0 561.1	43 40 36.5	970	227.6 250.2 267.6	315	72 76 75	6	-
500S-35	1620 2020 2340	450.0 561.1 650.0	40 35 30.5	970	207.5 218.7 228.6	280	85 88 85	6	1600
500S-35A	1400 1746 2020	388.9 485.0 561.1	30 27 24	970	139.4 151.0 159.0	220	82 85 83	6	1600
500S-22	1620 2020 2340	450.0 561.1 650.0	24.5 22 19.4	970	136.8 144.0 145.4	160	79 84 85	6	1722
500S-22A	1400 1746 2020	388.9 485.0 561.1	19 17 15	970	97.9 101.0 101.8	132	74 80 81	6	1722
500S-13	1620 2020 2340	450.0 561.1 650.0	15 13 10	970	82.7 86.1 81.7	110	80 83 78	6	-
600S-100	2160 3170 3600	600.0 880.6 1000.0	110 100 92	970	829.2 1015.2 1073.3	1400	78 85 84	6	7200
600S-100A	1980 3000 3240	550.0 833.3 900.0	100 90 85	970	700.0 875.0 914.3	1120	77 84 82	6	7200

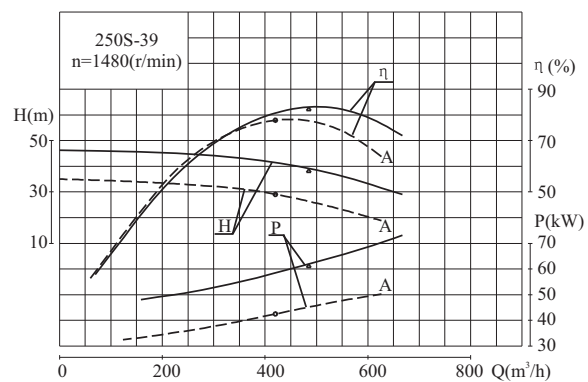
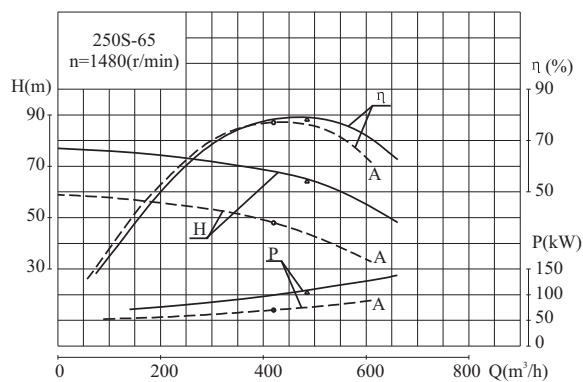
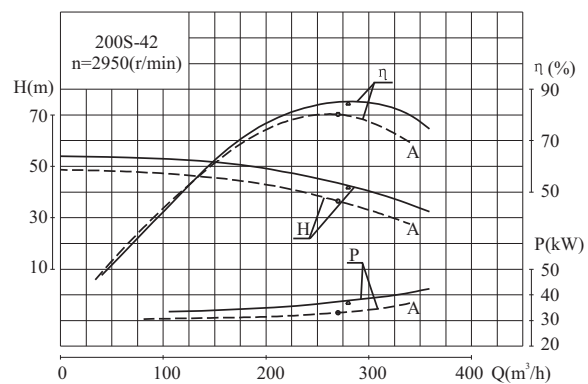
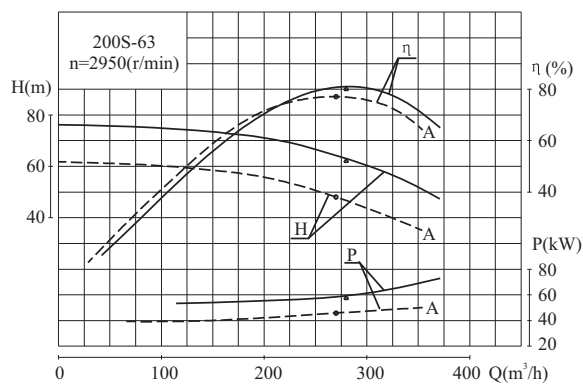
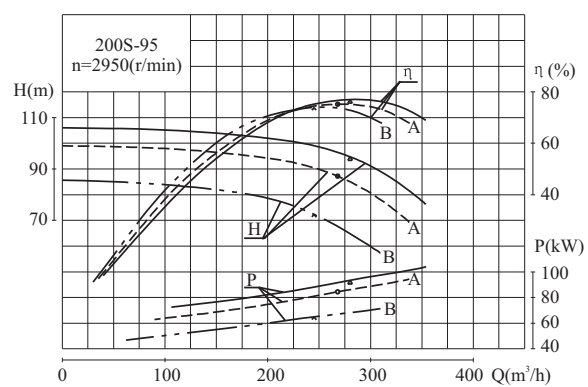
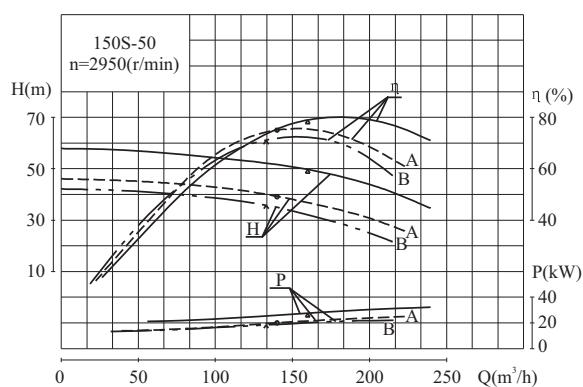
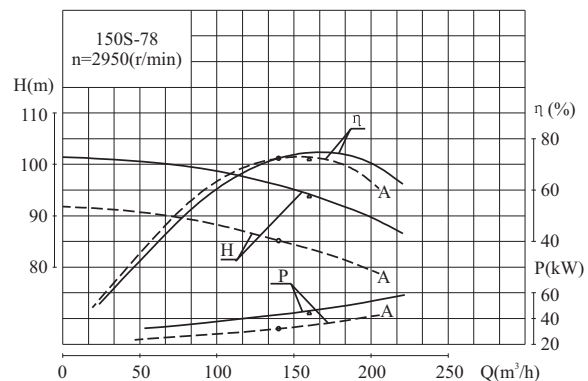
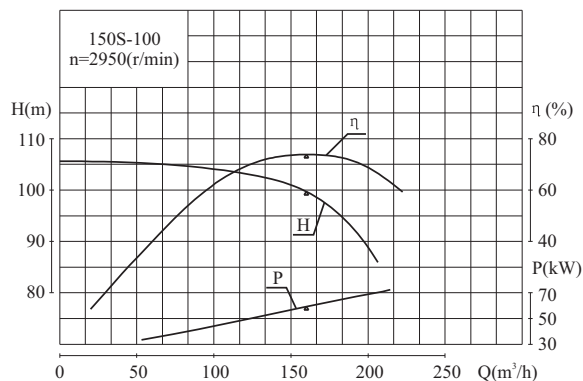
S型泵性能参数 S type pump performance data

泵型号 Pump type	流量Q		扬程 H (m)	转速 n (r/min)	功率 N(kW)		效率 η (%)	必须汽 蚀余量 (NPSH) _r (m)	重量 Weight (kg)
	(m ³ /h)	(L/s)			轴功率 Shaft power	电机 Motor			
600S-100B	1800	500.0	90	970	588.0	1000	75	6	7200
	2830	786.1	80		751.6		82		
	3060	850.0	75		780.9		80		
600S-75	2160	600.0	84	970	633.2	900	78	7.5	2600
	3170	880.6	75		761.4		85		
	3600	1000.0	68		802.9		83		
600S-75A	1980	550.0	68	970	488.7	800	75	7.5	2600
	2880	800.0	62		607.6		80		
	3240	900.0	58		655.8		78		
600S-75B	1750	486.1	60	970	408.3	630	70	7.5	2600
	2650	736.1	55		508.7		78		
	3150	875.0	50		579.4		74		
600S-47	2160	600.0	54	970	401.9	560	79	7.5	2800
	3170	880.6	47		460.9		88		
	3600	1000.0	43		507.7		83		
600S-47A	1980	550.0	45	970	311.0	450	78	7.5	2800
	2920	811.1	40		369.7		86		
	3240	900.0	37		398.0		82		
600S-32	2160	600.0	36	970	271.4	400	78	7.5	2300
	3170	880.6	32		313.8		88		
	3600	1000.0	29		334.4		85		
600S-32A	2000	555.6	30	970	214.9	280	76	7.5	2300
	2880	800.0	27		246.1		86		
	3240	900.0	25		262.5		84		
600S-32B	1800	500.0	24.5	970	164.5	250	73	7.5	2300
	2628	730.0	22		187.4		84		
	3000	833.3	20		199.2		82		
600S-22	2520	700.0	25	970	204.2	250	84	7	2300
	3170	880.6	22		215.7		88		
	3600	1000.0	19		227.1		82		
600S-22A	2160	600.0	21	970	152.4	185	81	7	2300
	2880	800.0	18		162.2		87		
	3240	900.0	16		170.0		83		
800S-22	4320	1200.0	25	730	358.5	450	82	7	3800
	5500	1527.8	22		370.1		89		
	6480	1800.0	19		389.7		86		
800S-22A	3000	833.3	16	585	163.3	250	80	5	3800
	4400	1222.2	14		190.6		88		
	5040	1400.0	12.5		201.8		85		
800S-22A	3960	1100.0	19	730	246.8	315	83	7	3800
	4830	1341.7	17		254.0		88		
	5500	1527.8	15		261.1		86		
800S-32	2800	777.8	12.5	585	119.1	185	80	5	3800
	3870	1075.0	11		133.2		87		
	4500	1250.0	9.5		138.5		84		
800S-32	4320	1200.0	35	730	502.0	630	82	7	4900
	5500	1527.8	32		538.3		89		
	6480	1800.0	29		588.0		87		
800S-32A	3000	833.3	23	585	234.8	315	80	4.5	4900
	4400	1222.2	20		272.2		88		
	5200	1444.4	17		283.1		85		
800S-32A	3500	972.2	29.5	730	351.3	500	80	7	4900
	4950	1375.0	26		398.1		88		
	6000	1666.7	23		436.8		86		
800S-47	2700	750.0	19	585	174.6	250	80	4.5	4900
	3960	1100.0	16.5		204.4		87		
	4680	1300.0	14		212.3		84		
800S-47	4320	1200.0	51	730	722.6	1000	83	6.5	5000
	5500	1527.8	47		781.9		90		
	6480	1800.0	42		841.9		88		
800S-47	3000	833.3	35	585	357.3	500	80	4	5000
	4400	1222.2	30		403.7		89		
	5200	1444.4	26		428.0		86		

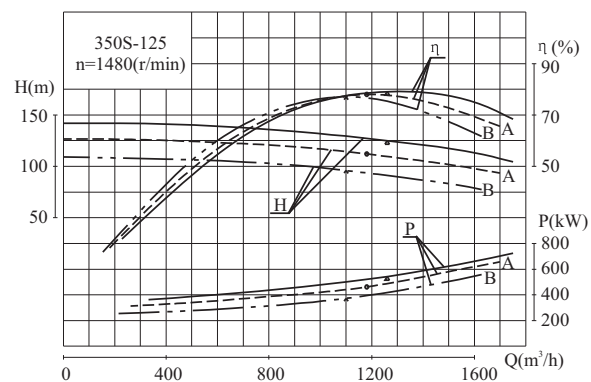
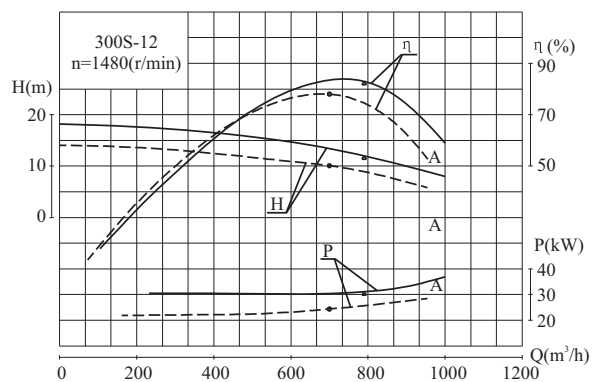
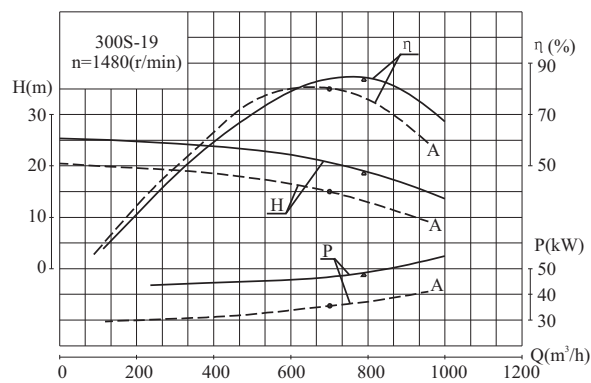
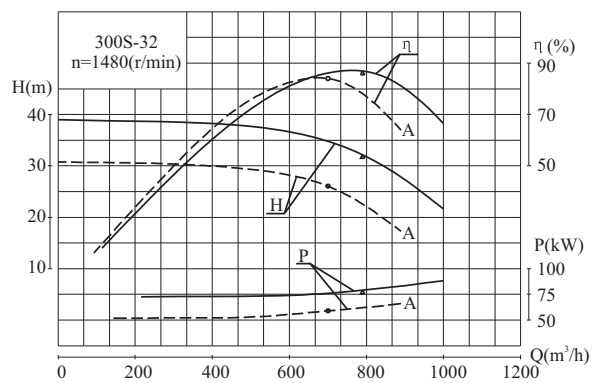
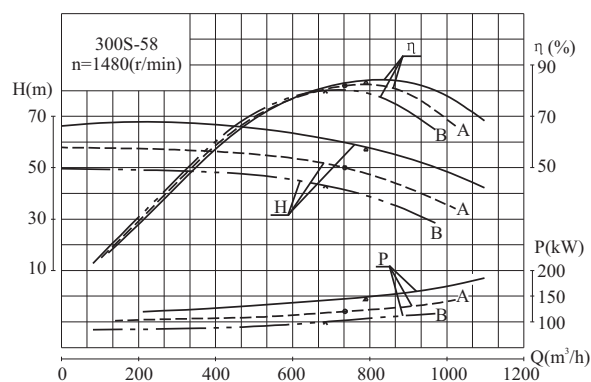
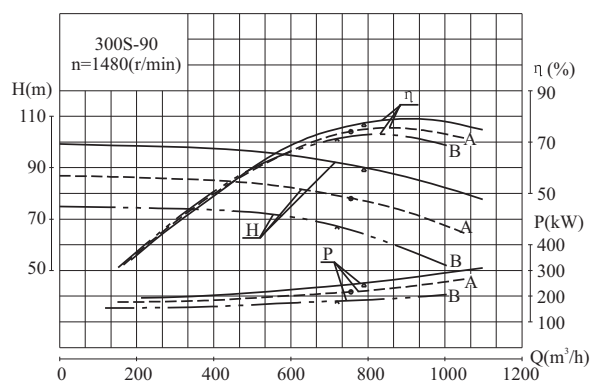
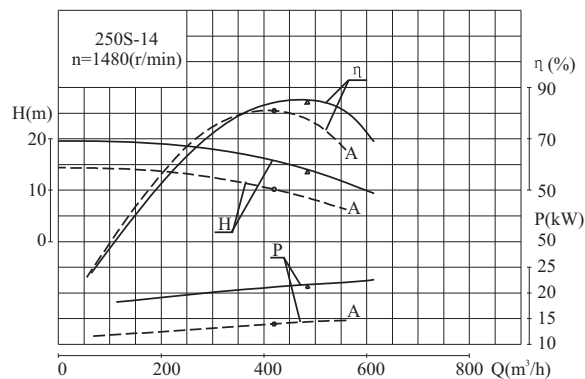
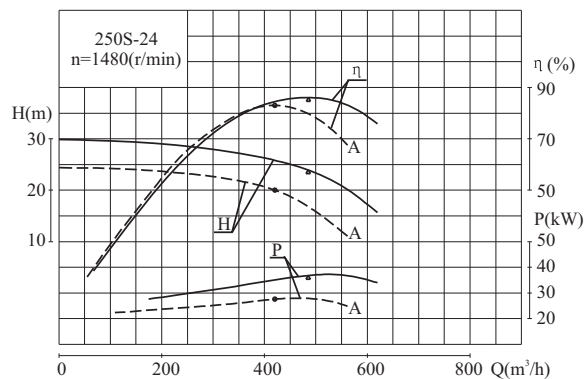
S型泵性能参数 S type pump performance data

泵型号 Pump type	流量Q		扬程 H (m)	转速 n (r/min)	功率 N(kW)		效率 η (%)	必须汽 蚀余量 (NPSH)r (m)	重量 Weight (kg)
	(m³/h)	(L/s)			轴功率 Shaft power	电机 Motor			
800S-47A	3500 5070 6000	972.2 1408.3 1666.7	45 40 36	730	529.3 620.3 683.7	710	81 89 86	6.5	5000
	2800 4060 4800	777.8 1127.8 1333.3	30 25 22	585	285.8 314.0 334.3	355	80 88 86	4	5000
800S-76	4000 5500 6500	1111.1 1527.8 1805.6	80 76 71	730	1102.7 1293.1 1444.0	1600	79 88 87	6	7550
	3000 4400 5500	833.3 1222.2 1527.8	54 49 43	585	551.3 674.6 757.4	800	80 87 85	4	7550
800S-76A	3500 5080 6000	972.2 1411.1 1666.7	69 65 61	730	832.2 1033.2 1186.1	1250	79 87 84	6	7550
	2800 4070 5000	777.8 1130.6 1388.9	46.5 42 37	585	448.6 541.1 606.8	630	79 86 83	4	7550
800S-76B	3000 4680 5500	833.3 1300.0 1527.8	59 55 51	730	642.4 824.4 920.0	1000	75 85 83	6	7550
	2500 3750 4500	694.4 1041.7 1250.0	39 35 31	585	349.2 425.3 468.8	500	76 84 81	4	7550
800S-105	3850 5500 6600	1069.4 1527.8 1833.3	110 105 100	730	1441.1 1807.0 2089.1	2500	80 87 86	6.5	8000
900S-23	6200 8280 9432	1722.2 2300.0 2620.0	28 23 19.5	730	590.7 602.8 610.6	710	80 86 82	9.3	6000
1000S-36	7920 9900 11380	2200.0 2750.0 3161.1	40 36 33	495	1039.0 1102.5 1202.7	1250	83 88 85	7.8	13000
1200S-24	8400 12000 14400	2333.3 3333.3 4000.0	28 24 18.5	590	748.8 901.1 906.5	1250	85.5 87 80	7.7	9000
1200S-32	8640 10800 12960	2400.0 3000.0 3600.0	35.5 32 26	600	1006.0 1081.4 1072.8	1250	83 87 85.5	7.7	-
1200S-32A	7776 9720 11664	2160.0 2700.0 3240.0	32 29 23.5	600	821.1 887.1 877.8	1000	82.5 86.5 85	7.7	-
1200S-39	7200 9000 10800	2000.0 2500.0 3000.0	42.5 39 33	500	1015.9 1085.8 1155.0	1250	82 88 84	5.5	-
1200S-39A	6480 8100 9720	1800.0 2250.0 2700.0	38.5 35 29.5	500	848.9 892.2 940.4	1120	80 86.5 83	5.5	-
1200S-39B	5832 7290 8748	1620.0 2025.0 2430.0	34 31 26	500	674.7 715.3 755.1	900	80 86 82	5.5	-
1200S-56	8640 10800 12960	2400.0 3000.0 3600.0	60 56 49	600	1721.0 1870.9 2033.8	2240	82 88 85	7.5	-
1200S-56A	7776 9720 11664	2160.0 2700.0 3240.0	54 50 42	600	1411.2 1520.7 1606.7	2000	81 87 83	7.5	-
1200S-56B	7000 8750 10500	1944.4 2430.6 2916.7	48 44 37	600	1143.3 1218.7 1289.7	1600	80 86 82	7.5	-
1200S-72	7800 10224 11500	2166.7 2840.0 3194.4	78 72 66	746	1995.4 2251.6 2374.9	2500	83 89 87	11.7	-

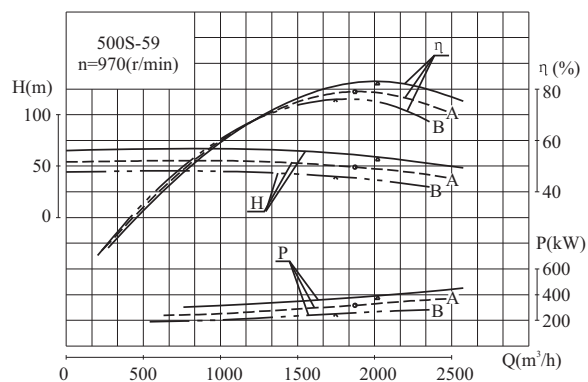
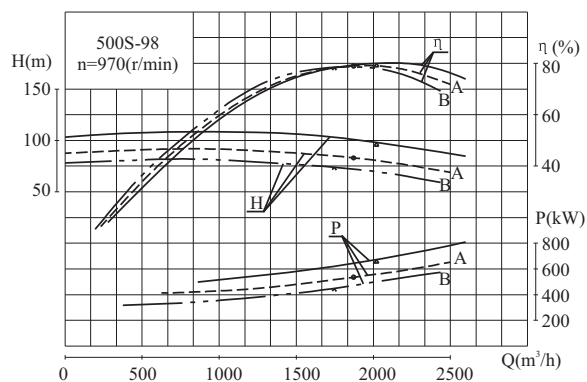
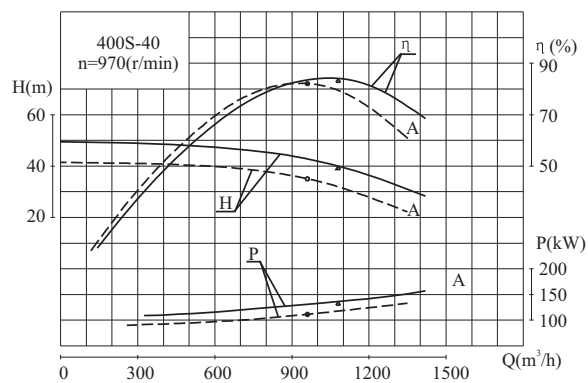
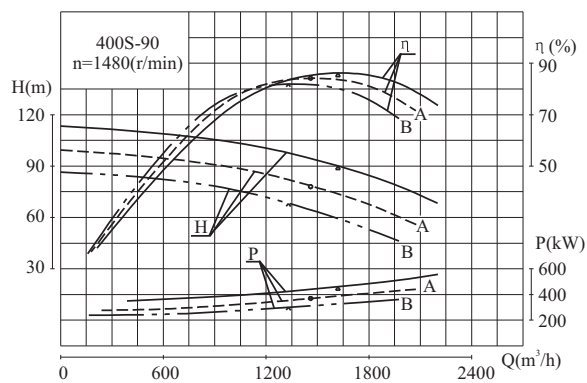
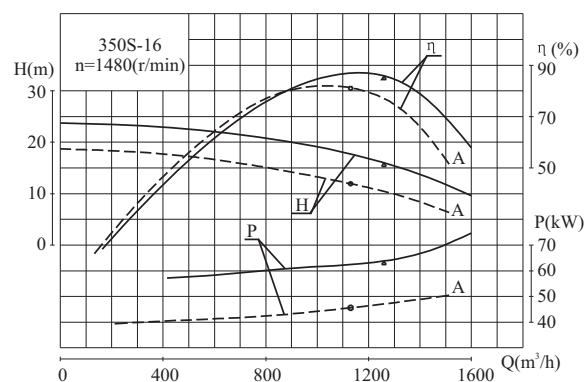
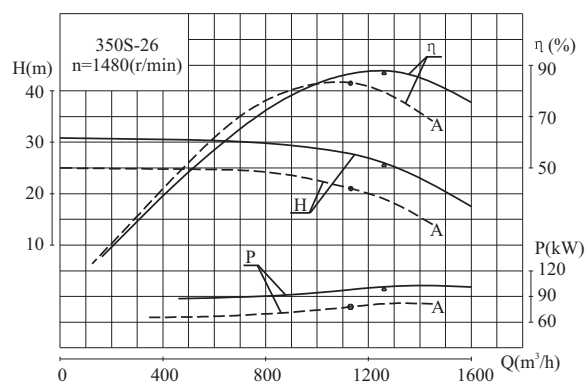
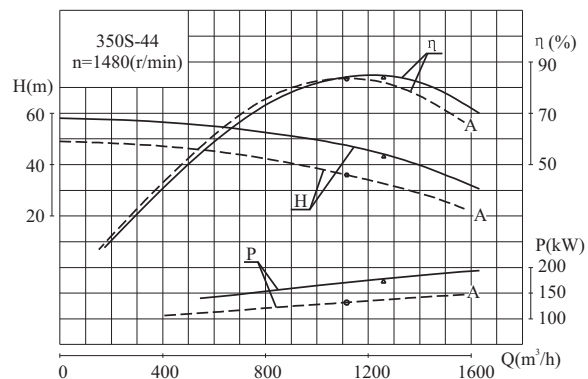
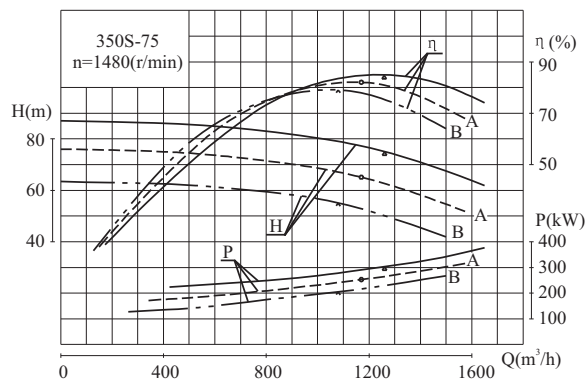
S型泵性能曲线图 S type pump performance curve



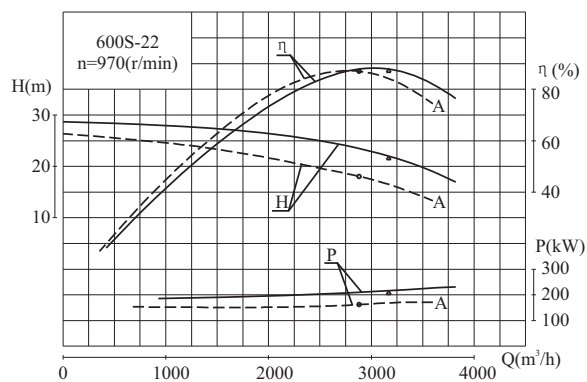
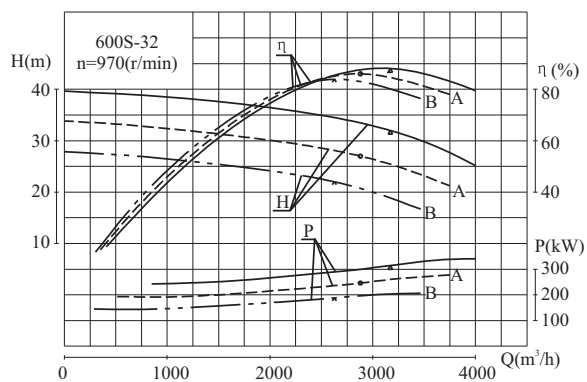
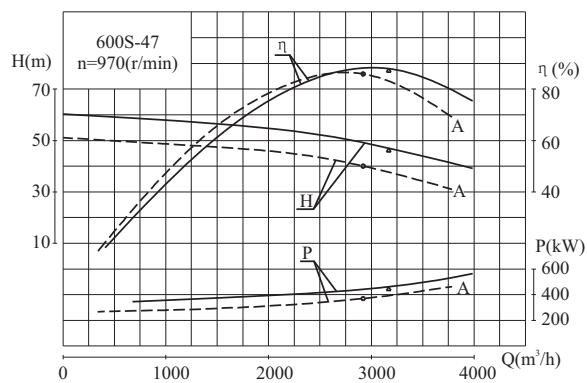
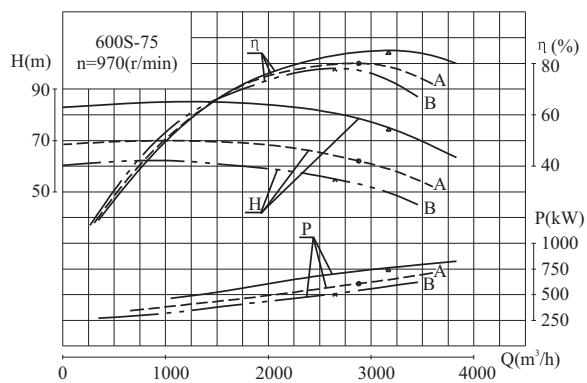
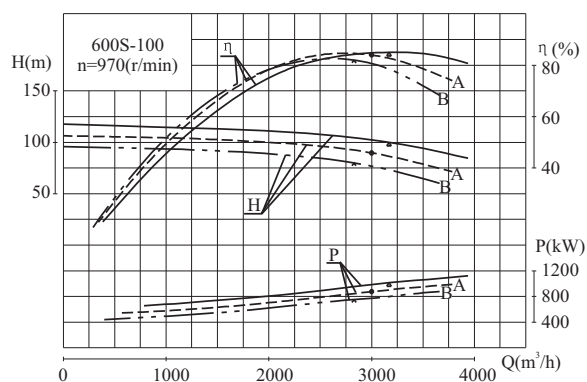
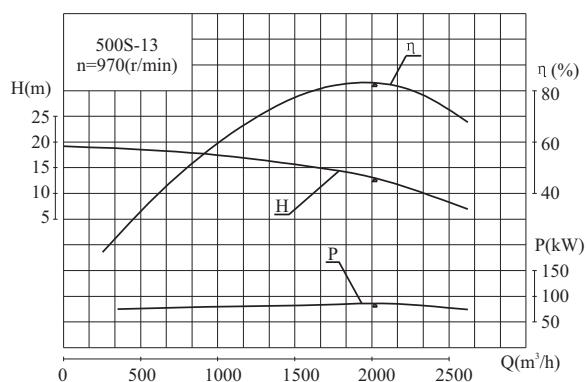
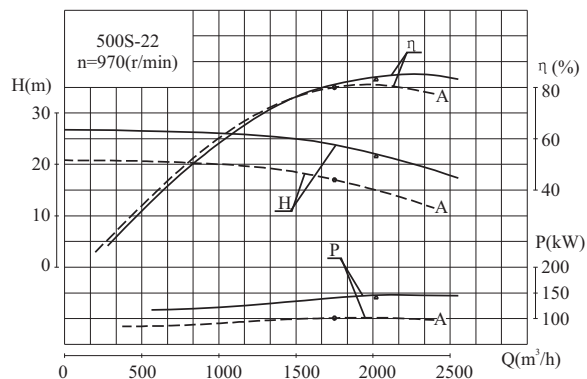
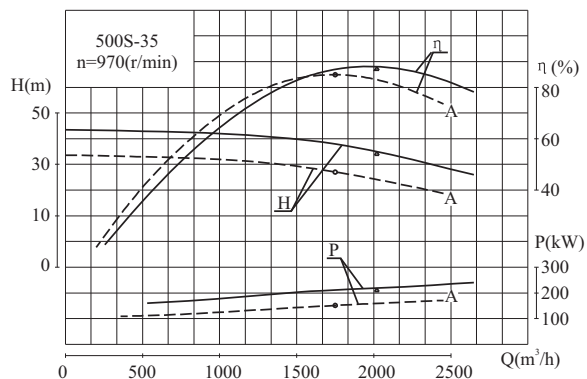
S型泵性能曲线图 S type pump performance curve



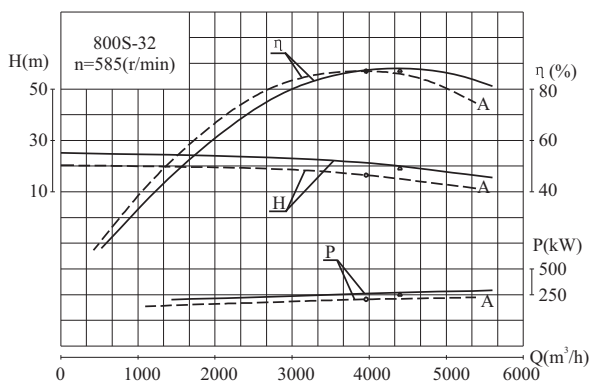
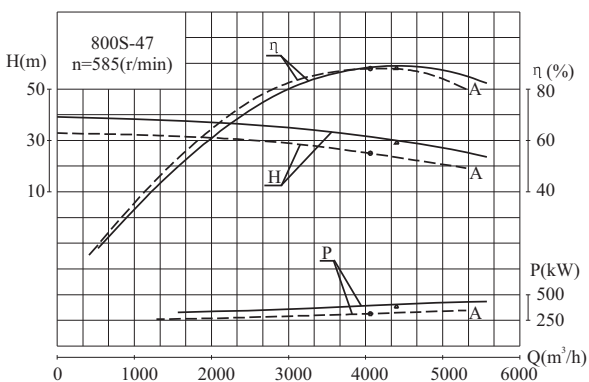
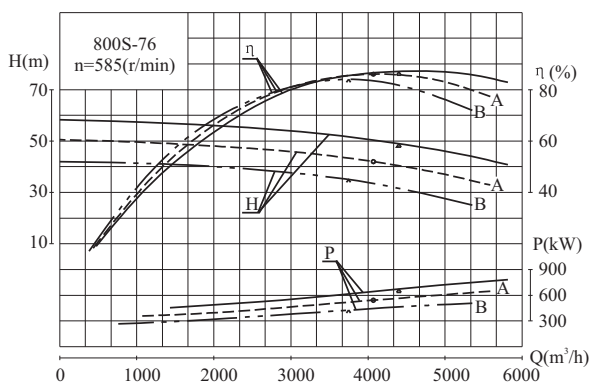
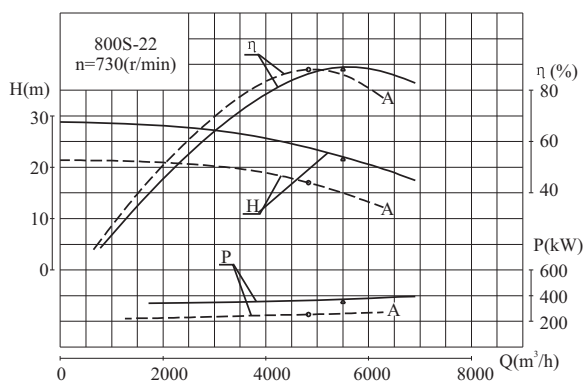
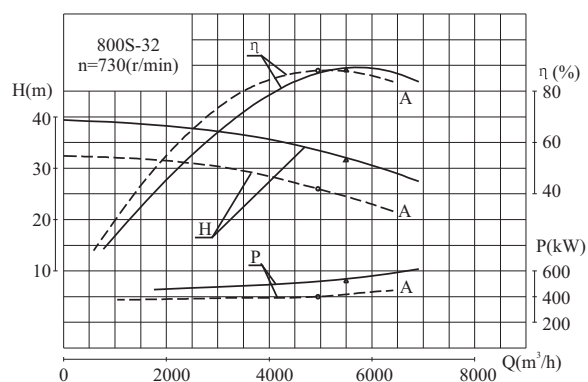
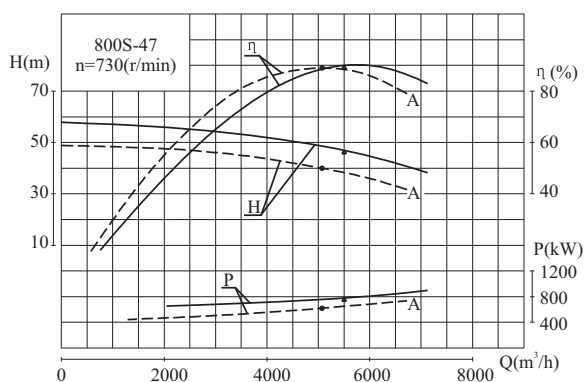
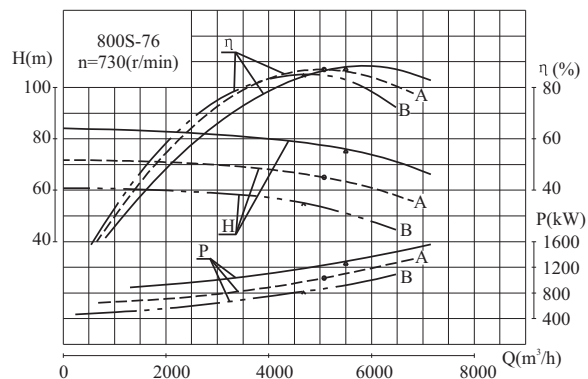
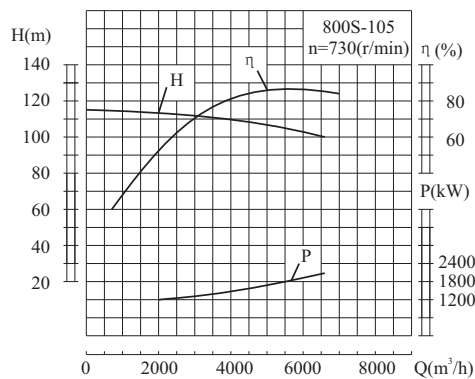
S型泵性能曲线图 S type pump performance curve



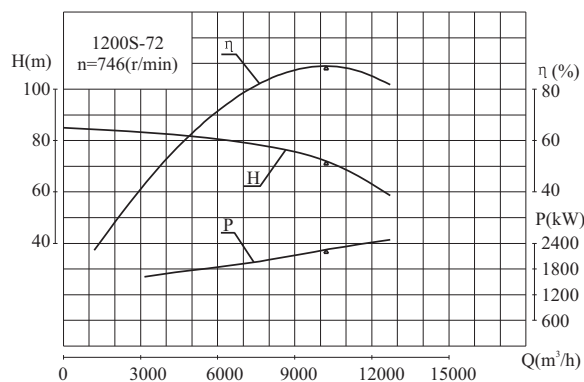
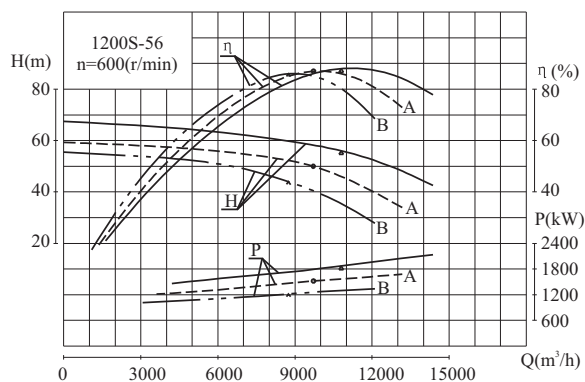
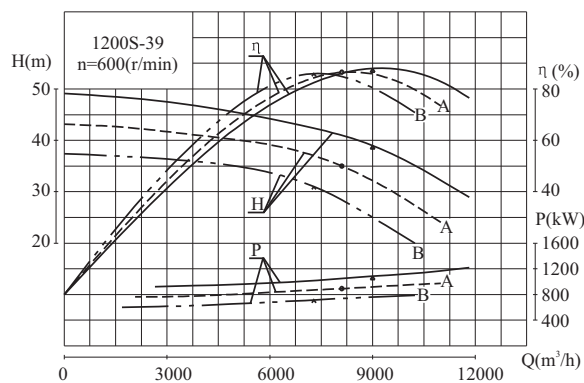
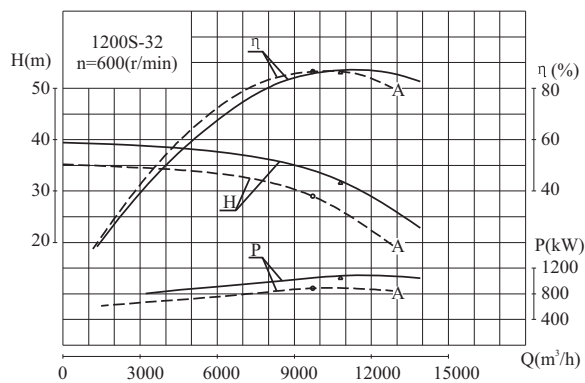
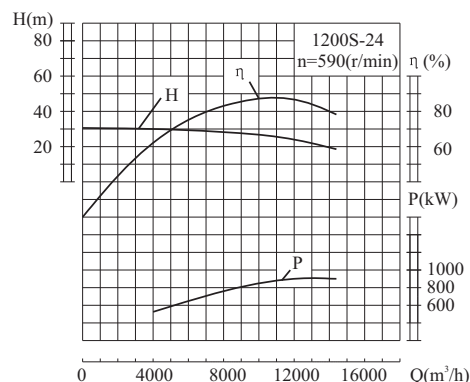
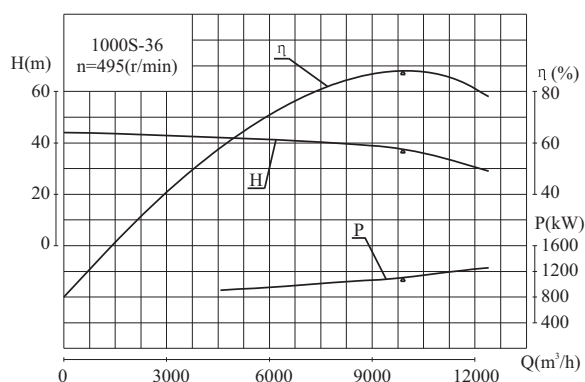
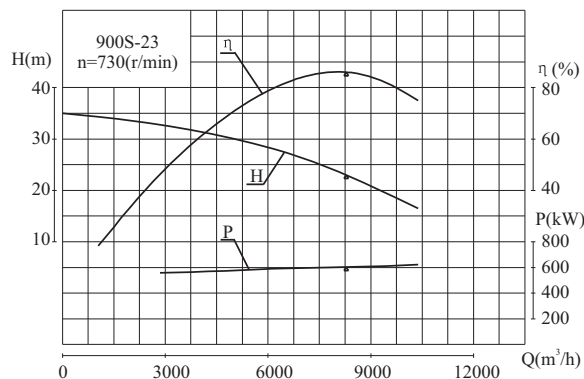
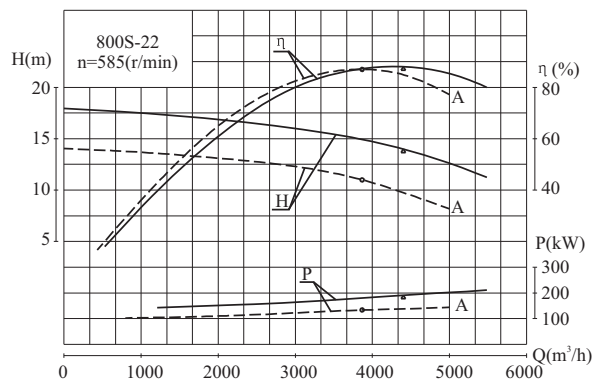
S型泵性能曲线图 S type pump performance curve



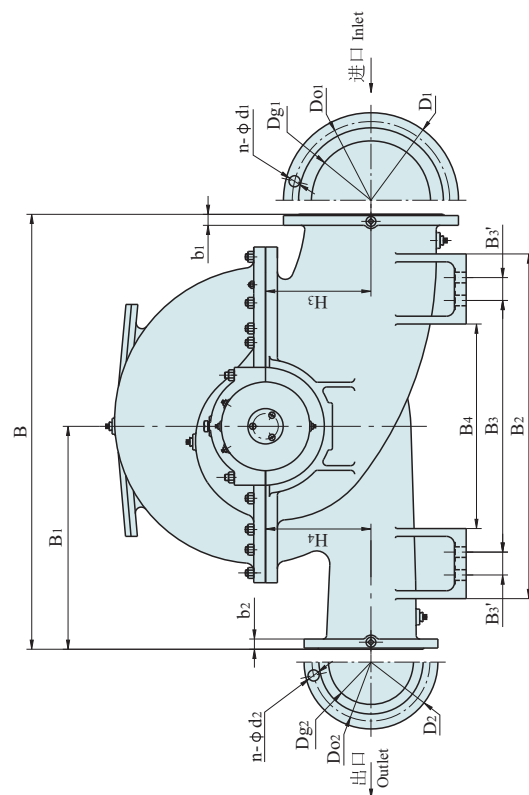
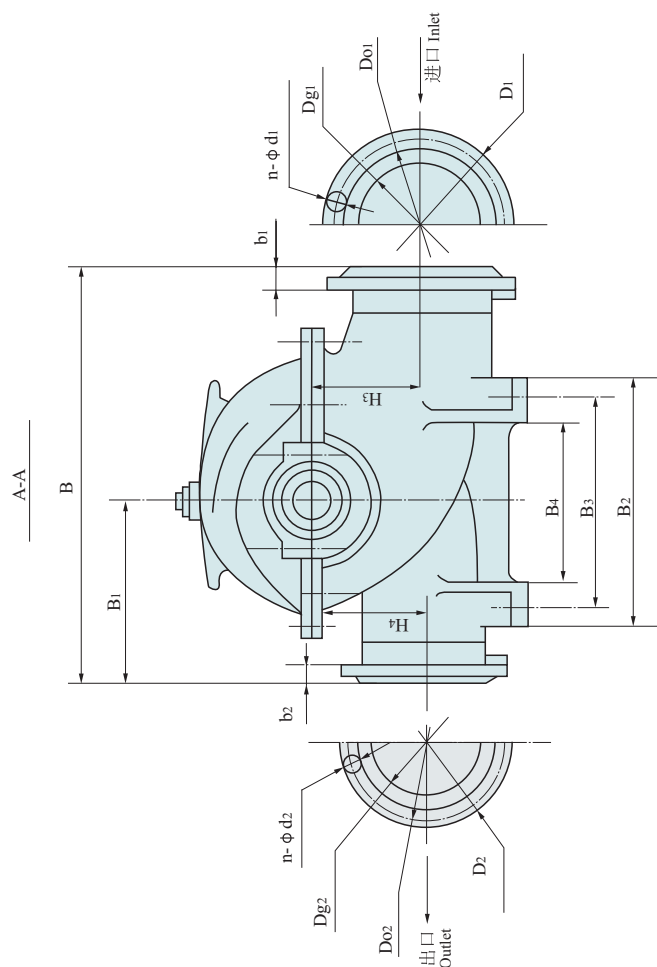
S型泵性能曲线图 S type pump performance curve



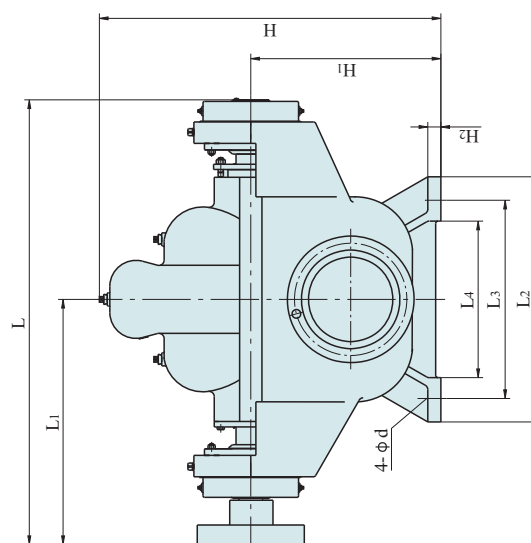
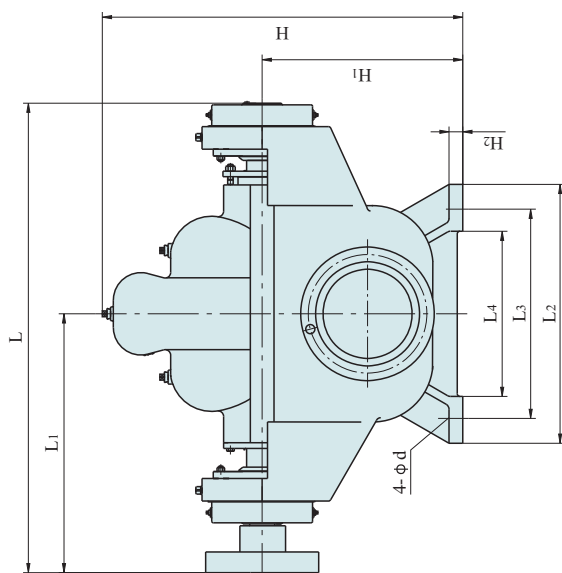
S型泵性能曲线图 S type pump performance curve



S型泵外形尺寸图 S type pump figure dimension drawing



1200S泵外形尺寸图



S型泵外形尺寸表 S type pump figure dimension table

单位 Unit: mm

型 号 Type	泵外形尺寸 Pump figure dimensions														进水法兰尺寸 Inlet flange dimensions						出水法兰尺寸 Outlet flange dimensions							
	L	L1	L2	L3	L4	B	B1	B2	B3	B3'	B4	B4'	H	H1	H2	H3	H4	4-φ d	Dg1	Do1	D1	b1	n-φ d1	Dg2	Do2	D2	b2	n-φ d2
150S-100	740.5	410	330	280	190	550	250	330	280	-	190	-	490	285	25	140	170	4-φ 18	150	240	285	26	8-φ 23	100	180	220	24	8-φ 19
150S-78	713.5	397	330	280	190	550	250	330	280	-	190	-	472.5	285	25	140	155	4-φ 18	150	240	285	26	8-φ 23	100	180	220	24	8-φ 19
150S-78A																												
150S-50	713.5	397	330	280	190	550	250	330	280	-	190	-	455	285	25	140	140	4-φ 18	150	240	285	26	8-φ 23	100	180	220	24	8-φ 19
150S-50A																												
150S-50B																												
200S-95	850.5	475	330	280	190	680	330	330	280	-	190	-	555	355	25	170	170	4-φ 18	200	295	340	24	8-φ 23	125	210	250	22	8-φ 19
200S-95A																												
200S-95B																												
200S-63	743.5	409	330	280	190	620	300	330	280	-	190	-	547	355	25	170	170	4-φ 18	200	295	340	24	8-φ 23	150	240	285	24	8-φ 23
200S-63A																												
200S-42	743.5	409	330	280	190	620	300	330	280	-	190	-	547	355	25	170	170	4-φ 18	200	295	340	24	8-φ 23	150	240	285	24	8-φ 23
200S-42A																												
250S-65	1100.5	612	510	450	330	880	400	620	550	-	430	-	856	510	40	240	300	4-φ 27	250	350	395	28	12-φ 23	150	240	285	26	8-φ 23
250S-65A																												
250S-39	983.5	552	410	350	230	890	440	510	450	-	330	-	750	450	30	200	260	4-φ 27	250	350	395	28	12-φ 23	200	295	340	26	8-φ 23
250S-39A																												
250S-24	983.5	517	410	350	230	850	400	510	450	-	330	-	738	4450	30	210	215	4-φ 27	250	350	395	28	12-φ 23	200	295	340	26	8-φ 23
250S-24A																												
250S-14	892.5	485	410	350	230	745	330	510	450	-	330	-	709	450	30	210	215	4-φ 27	250	350	395	28	12-φ 23	200	295	340	26	8-φ 23
250S-14A																												

S型泵外形尺寸表 S type pump figure dimension table

单位 Unit: mm

型 号 Type	泵外形尺寸 Pump figure dimensions														进水法兰尺寸 Inlet flange dimensions						出水法兰尺寸 Outlet flange dimensions								
	L	L1	L2	L3	L4	B	B1	B2	B3	B3'	B4	B4'	H	H1	H2	H3	H4	4-φd	Dg1	Do1	D1	b1	n-φd1	Dg2	Do2	D2	b2	n-φd2	
300S-90																													
300S-90A	1185	660	510	450	330	1046	470	620	550	-	420	-	898	510	40	268	325	4-φ27	300	400	440	28	12-φ23	200	295	340	26	8-φ23	
300S-90B																													
300S-58																													
300S-58A	1140	630	510	450	330	1070	530	620	550	-	430	-	852	510	40	240	310	4-φ27	300	400	445	28	12-φ23	250	350	395	28	12-φ23	
300S-58B																													
300S-32																													
300S-32A	1100	605	510	450	330	880	410	620	550	-	430	-	824	510	40	260	270	4-φ27	300	400	445	28	12-φ23	250	350	395	28	12-φ23	
300S-19																													
300S-19A	978.5	537	510	450	330	900	400	620	550	-	430	-	808	510	40	250	260	4-φ27	300	400	445	28	12-φ23	250	350	395	28	12-φ23	
300S-12																													
300S-12A	1009	552	510	450	330	1000	500	620	550	-	430	-	808	510	40	256	265	4-φ27	300	400	445	28	12-φ23	300	400	445	28	12-φ23	
350S-125																													
350S-125A	1431	801	580	500	360	1210	550	680	600	-	450	-	1080	620	50	330	410	4-φ34	350	460	505	30	16-φ23	200	295	340	26	12-φ23	
350S-125B																													
350S-75																													
350S-75A	1272	710	600	500	360	1250	600	690	600	-	450	-	1017	620	50	274	356	4-φ34	350	460	505	30	16-φ23	250	350	395	28	12-φ23	
350S-75B																													
350S-44																													
350S-44A	1233	675	580	500	360	1040	460	680	600	-	450	-	980	620	50	290	300	4-φ34	350	460	505	30	16-φ23	300	400	445	28	12-φ23	
350S-26																													
350S-26A	1171	642	580	500	360	1040	460	680	600	-	450	-	963	620	50	290	300	4-φ34	350	460	505	30	16-φ23	300	400	445	28	12-φ23	
350S-16																													
350S-16A	1129	622	580	500	360	1168	584	680	600	-	450	-	970	620	50	310	310	4-φ34	350	460	505	30	16-φ23	350	460	505	30	16-φ23	

S型泵外形尺寸表 S type pump figure dimension table

型 号 Type	泵外形尺寸 Pump figure dimensions														进水法兰尺寸 Inlet flange dimensions						出水法兰尺寸 Outlet flange dimensions								
	L	L1	L2	L3	L4	B	B1	B2	B3	B3'	B4	B4'	H	H1	H2	H3	H4	4-φ d	Dg1	Do1	D1	b1	n-φ d1	Dg2	Do2	D2	b2	n-φ d2	
400S-90																													
400S-90A	1747	907	820	700	480	1645	900	900	700	-	500	-	1130	670	40	372	482	4-φ 35	400	515	565	32	16-φ 28	300	400	445	28	12-φ 23	
400S-90B																													
400S-40																													
400S-40A	1747	907	820	700	480	1645	900	900	700	-	500	-	1130	670	40	372	482	4-φ 35	400	515	565	32	16-φ 28	300	400	445	28	12-φ 23	
500S-98																													
500S-98A	1639.5	912	760	580	420	1550	750	1020	800	-	580	-	1381	800	55	425	545	4-φ 41	500	620	670	34	20-φ 28	300	370	460	32	12-φ 28	
500S-98B																													
500S-59																													
500S-59A	1639.5	907	760	580	420	1640	810	1020	800	-	580	-	1300	800	55	370	480	4-φ 41	500	620	670	34	20-φ 28	350	460	505	30	16-φ 23	
500S-59B																													
500S-35																													
500S-35A	1363.5	756	760	580	420	1350	630	1020	800	-	580	-	1270	800	55	415	415	4-φ 41	500	620	670	34	20-φ 28	350	460	505	30	16-φ 23	
500S-22																													
500S-22A	1396.5	770	760	580	420	1460	640	1020	800	-	580	-	1266	800	55	410	410	4-φ 41	500	620	670	34	20-φ 28	400	515	565	32	16-φ 28	
500S-13	1308.5	714.5	760	580	420	1550	775	1020	800	-	580	-	1251	800	55	410	410	4-φ 41	500	620	670	34	20-φ 28	500	620	670	34	20-φ 28	
600S-100																													
600S-100A	1935	1097	1200	1000	800	1900	900	1300	1000	-	700	-	1610	950	55	532	588	4-φ 42	600	725	780	36	20-φ 31	400	515	565	32	16-φ 28	
600S-100B																													
600S-75																													
600S-75A	1694.5	940	940	760	600	1900	940	1020	800	-	580	-	1550	950	55	425	555	4-φ 41	600	725	780	36	20-φ 31	400	515	565	32	16-φ 28	
600S-47	1694.5	940	940	760	600	1595	745	1020	800	-	580	-	1505	950	55	490	490	4-φ 41	600	725	780	36	20-φ 31	400	515	565	32	16-φ 28	

单位 Unit: mm

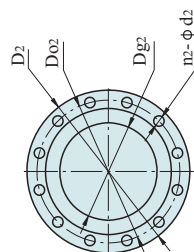
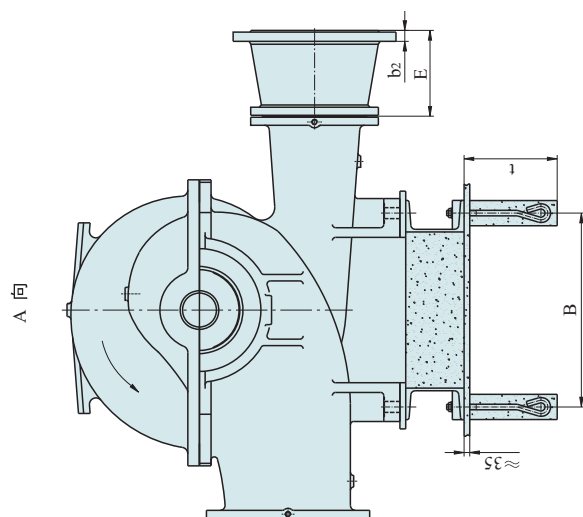
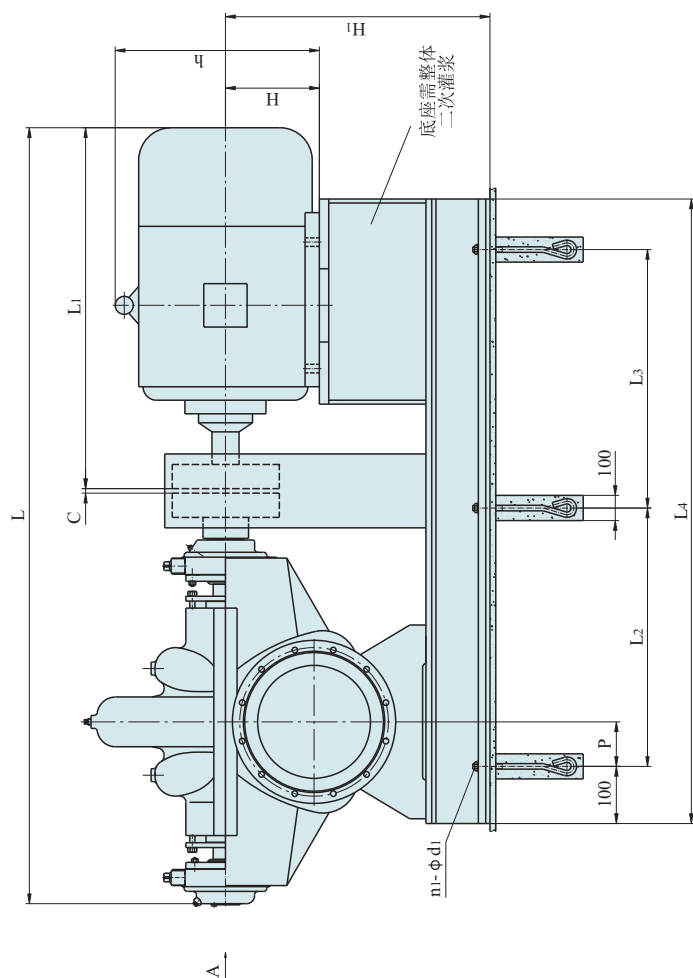
S型泵外形尺寸表 S type pump figure dimension table

单位 Unit: mm

型 号 Type	泵外形尺寸 Pump figure dimensions																进水法兰尺寸 Inlet flange dimensions					出水法兰尺寸 Outlet flange dimensions							
	L	L1	L2	L3	L4	B	B1	B2	B3	B3'	B4	B4'	H	H1	H2	H3	H4	4-φd	Dg1	Do1	D1	b1	n-φd1	Dg2	Do2	D2	b2	n-φd2	
600S-32																													
600S-32A	1627.5	900	940	760	600	1600	750	1020	800	-	580	-	1490	950	55	480	480	4-φ41	600	725	780	36	20-φ31	500	620	670	34	20-φ28	
600S-32B																													
600S-22																													
600S-22A	1466.5	805	940	760	600	1790	840	1020	800	-	580	-	1476	950	55	460	460	4-φ41	600	725	780	36	20-φ31	500	620	670	34	20-φ28	
800S-105	2435	1367.5	1300	1000	700	2400	1100	1700	1350	-	1000	-	2190	1250	55	700	800	4-φ58	800	901	1015	44	24-φ33	600	720	840	48	20-φ37	
800S-76	2271	1270	1300	1000	700	2350	1150	1700	1350	-	1000	-	2105	1250	55	700	745	4-φ56	800	950	1015	44	24-φ33	600	725	780	36	20-φ30	
800S-47	2315	1300	1200	1000	800	2025	875	1200	900	-	600	-	2074	1200	55	660	660	4-φ42	800	950	1015	44	24-φ33	600	725	780	36	20-φ30	
800S-32	1874	1025	1200	1000	800	2150	1000	1200	900	-	600	-	2044	1200	55	660	660	4-φ42	800	950	1015	44	24-φ33	600	725	780	36	20-φ30	
800S-22	1874	1025	1200	1000	800	2150	1000	1200	900	-	600	-	2014	1200	55	660	660	4-φ42	800	950	1015	44	24-φ33	600	725	780	36	20-φ30	
900S-23	2730	1350	1200	1000	700	2400	840	1200	900	-	600	-	2400	1400	60	840	760	4-φ42	900	1050	1115	46	28-φ34	700	840	895	40	24-φ31	
1000S-36	3550	2000	1550	1400	1000	2900	1360	1900	1200	-	900	-	2750	1600	70	860	760	4-φ42	1000	1160	1230	50	28-φ37	800	950	1015	44	24-φ34	
1200S-24	2480	1370	1450	1200	950	3000	1400	2000	1400	200	1200	-	2700	1700	60	850	975	8-φ42	1200	1318	1455	56	32-φ40	1000	1112	1230	50	28-φ37	
1200S-32	3285	1695	1600	1250	900	2800	1250	550	725	1105	575	950	2650	1700	120	870	1020	4-φ56	1200	1380	1455	56	32-φ40	-	-	-	-	-	
1200S-32A																													
1200S-39																													
1200S-39A																													
1200S-39B																													
1200S-56	3295	1695	1680	1250	900	2800	1250	550	725	1105	575	950	2700	1700	120	870	1020	4-φ56	1200	1380	1455	56	32-φ40	-	-	-	-	-	
1200S-56A																													
1200S-56B																													
1200S-72																													

S型双吸离心泵安装尺寸图(带底座)

S type double-suction centrifugal pump installation dimension drawing(with foundation)



吐出锥管法兰
Flange of vomiting conical pipe

S型泵配Y型电机的安装尺寸表(带底座)

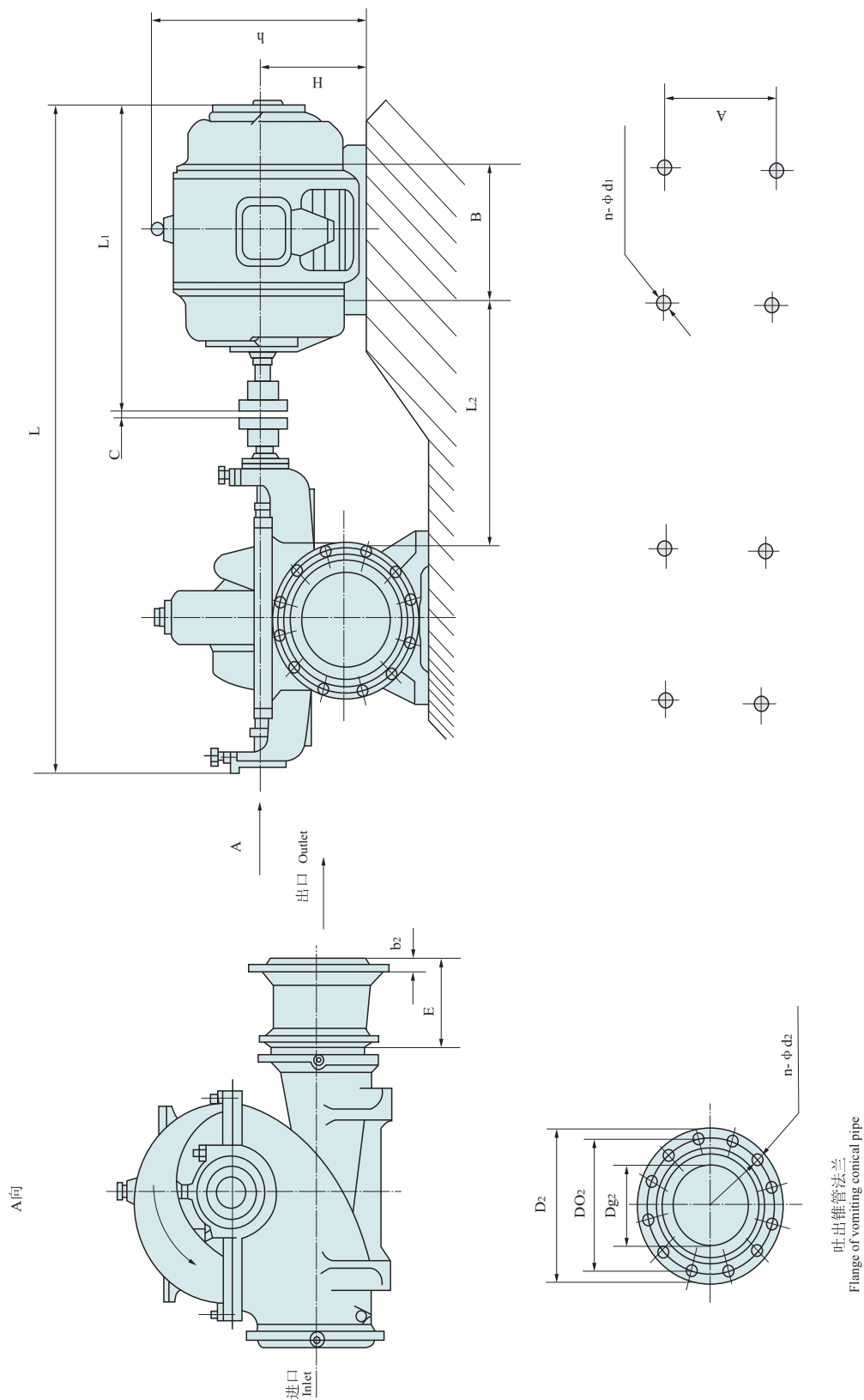
S type pump with Y type motor installation dimension table(with foundation)

单位 Unit: mm

型 号 Type	C	电动机 Motor			电机尺寸 Dimension of motor			底座尺寸 Dimension of foundation							E	H1	L	t	吐出锥管法兰尺寸 Flange of vomiting conical pipe			
		型 号 Type	功率 Power (kW)	电压 Voltage (V)	L1	h	H	L2	L3	L4	P	B	n1-φd1	D2					Do2	Dg2	b2	n2-φd2
150S-100	4	Y280S-2	75	380	1000	640	280	550	550	1375	75	457	6-φ20	300	425	1723	350	150	280	240	24	8-φ23
150S-78	4	Y250M-2	55	380	930	575	250	520	520	1294	75	406	6-φ20	300	425	1640	350	150	280	240	24	8-φ23
150S-78A	4	Y225M-2	45	380	815	530	225	480	480	1195		356		1525								
150S-50	4	Y200L2-2	37	380	775	475	200	470	470	1170						1484	350	150	280	240	24	8-φ23
150S-50A	4	Y200L1-2	30	380	775	475	200	470	470	1170	100	380	6-φ20	300	425	1484						
150S-50B	4	Y180M-2	22	380	670	430	180	450	450	1095						1379						
200S-63	4	Y280S-2	75	380	1000	640	280	570	570	1372	75	457	6-φ20	350	495	1750	350	200	335	295	26	8-φ23
200S-63A	4	Y250M-2	55	380	930	575	250	550	550	1308	406	1680										
200S-42	4	Y225M-2	45	380	815	530	225	460	460	1212	75	400	6-φ20	350	495	1564	350	200	335	295	26	8-φ23
200S-42A	4	Y200L2-2	37	380	775	475	200	480	480	1184		280	1524									
250S-39	4	Y280S-4	75	380	1000	640	280	620	620	1565	65	450	6-φ25	300	610	1931	450	250	390	350	28	12-φ23
250S-39A	4	Y250M-4	55	380	930	575	250	550	550	1417		560	6-φ20	350	590	1861						
250S-24	4	Y225M-4	45	380	845	530	225	520	520	1400	120	450	6-φ20	300	590	1784	350	250	390	350	28	12-φ23
250S-24A	4	Y225S-4	37	380	820	530	225	550	550	1375						1759						
250S-14	4	Y200L-4	30	380	775	475	200	520	520	1306	120	450	6-φ20	300	590	1654	350	250	390	350	28	12-φ23
250S-14A	4	Y180M-4	18.5	380	670	430	180	520	520	1234						1549						
300S-32	4	Y280M-4	90	380	1050	640	280	740	740	1710	150	560	6-φ20	300	690	2150	350	300	440	400	28	12-φ23
300S-32A	4	Y280S-4	75	380	1000	640	280	740	740	1660						2100						
300S-19	4	Y250M-4	55	380	930	575	250	600	600	1525	165	550	6-φ20	300	670	1922	350	300	440	400	28	12-φ23
300S-19A	4	Y225M-4	45	380	845	530	225	590	590	1460						1837						
300S-12	4	Y225S-4	37	380	820	530	225	600	600	1450	165	550	6-φ20	—	670	1827	350	—	—	—	—	—
300S-12A	4	Y200L-4	30	380	775	475	200	580	580	1415						1782						

S型双吸离心泵安装尺寸图(不带底座)

S type double-suction centrifugal pump installation dimension drawing(without foundation)



S型双吸离心泵安装尺寸表(不带底座)

S type double-suction centrifugal pump installation dimension table(without foundation)

型 号 Type	C	电动机 Motor			电机尺寸 Dimension of motor							E	L	L ₂	吐出接管法兰尺寸 Flange of vomiting conical pipe					单位 Unit: mm
		电机型号 Type of motor	功率 Power (kW)	电压 Voltage (V)	L ₁	H	h	B	A	n-φ d ₁	Dg ₂				D ₂	Do ₂	b ₂	n-φ d ₂		
150S-100	4	Y280S-2	75	380	1000	280	640	368	457	4-φ 24	300	-	-	150	280	240	24	8-φ 23		
150S-78		Y250M-2	55	380	930	250	575	349	406	4-φ 24			569							
150S-78A		Y225M-2	45		815	225	530	311	356	4-φ 19			520							
150S-50	4	Y200L ₂ -2	37		775	200	475	305	318	4-φ 19	300		1492.5	504						
150S-50A		Y200L ₁ -2	30	380	775	200	475	305	318	4-φ 19			1492.5						504	
150S-50B		Y180M-2	22		670	180	430	241	279	4-φ 15			1387.5						492	
200S-95	4	Y315M-2	132		1310	315	865	457	508	4-φ 28	375		2164.5	200	335	295	26	8-φ 23		
200S-95A		Y315S-2	110	380	1240	315	865	406	508	4-φ 28			695						695	
200S-95B		Y280S-2	75		1000	280	640	368	457	4-φ 24			669						669	
200S-63	4	Y280S-2	75	380	1000	280	640	368	457	4-φ 24	350		1747.5	200	335	295	26	8-φ 23		
200S-63A		Y250M-2	55		930	250	575	349	406	4-φ 24			581						581	
200S-42	4	Y225M-2	45	380	815	225	530	311	356	4-φ 19	350		1562.5	200	335	295	26	8-φ 23		
200S-42A		Y200L ₂ -2	37		775	200	475	305	318	4-φ 19			516						516	
250S-65	4	Y315M-4	132	380	1340	315	865	457	508	4-φ 28	500		2444.5	250	390	350	28	12-φ 23		
250S-65A		Y280M-4	90		1050	280	640	419	457	4-φ 24			721						721	
250S-39	4	Y280S-4	75	380	1000	280	640	368	457	4-φ 24	300		1987.5	250	390	350	28	12-φ 23		
250S-39A		Y250M-4	55		930	250	575	349	406	4-φ 24			689						689	
250S-24	4	Y225M-4	45	380	845	225	530	311	356	4-φ 19	300		1787.5	250	390	350	28	12-φ 23		
250S-24A		Y225S-4	37		820	225	530	286	356	4-φ 19			635						635	
250S-14	4	Y200L-4	30	380	775	200	475	305	318	4-φ 19			1671.5						557	
250S-14A		Y180M-4	18.5		670	180	430	241	279	4-φ 15	1566.5	545								
300S-90	5	Y3554-4	315	6000	1820	355	780	900	630	4-φ 28	500	2998.5	949	300	440	400	28	12-φ 23		

S型双吸离心泵安装尺寸表(不带底座)
S type double-suction centrifugal pump installation dimension table(without foundation)

型 号 Type		C	电动机 Motor			电机尺寸 Dimension of motor						E	L		L ₂	吐出锥管法兰尺寸 Flange of vomiting conical pipe				
			电机型号 Type of motor	功率 Power (kW)	电压 Voltage (V)	L ₁	H	h	B	A	n-φd ₁					Dg ₂	D ₂	Do ₂	b ₂	n-φd ₂
300S-90A	5	Y3553-4	280	6000	1820	355	780	900	630	4-φ28	500	2998.5	2998.5	949	300	440	400	28	12-φ23	
300S-90B		Y3551-4	220		1820	355	780	900	630	4-φ28		2998.5								
300S-58	4	Y315L2-4	200	380	1340	315	865	508	508	4-φ28	300	2483.5	2483.5	795	300	440	400	28	12-φ23	
300S-58A		Y315L1-4	160		1340	315	865	508	508	4-φ28		2483.5								
300S-58B		Y315M-4	132		1340	315	865	457	508	4-φ28		2483.5								
300S-32	4	Y280M-4	90	380	1050	280	640	419	457	4-φ24	300	2153.5	2103.5	714	300	440	400	28	12-φ23	
300S-32A		Y280S-4	75		1000	280	640	368	457	4-φ24		2103.5								
300S-19	4	Y250M-4	55	380	930	250	575	349	406	4-φ24	300	1912.5	1827.5	624	300	440	400	28	12-φ23	
300S-19A		Y225M-4	45		845	225	530	311	356	4-φ19		1827.5								
300S-12	4	Y225S-4	37	380	820	225	530	286	356	4-φ19	-	1832.5	1787.5	620	-	-	-	-	-	
300S-12A		Y200L-4	30		775	200	475	305	318	4-φ19		574								
350S-125	7	Y4502-4	710	6000	2080	450	935	1120	800	4-φ35	750	3517.5	3517.5	1123	350	520	470	38	16-φ25	
350S-125A		Y4501-4	630		2080	450	935	1120	800	4-φ35		1123								
350S-125B		Y4004-4	500		1940	400	835	1000	710	4-φ35		1103								
350S-75	5	Y4001-4	355	6000	1940	400	835	1000	710	4-φ35	500	3191.5	3071.5	980	350	500	460	30	16-φ23	
350S-75A		Y3553-4	280		1820	355	780	900	630	4-φ28		960								
350S-75B		Y3551-4	220		1820	355	780	900	630	4-φ28		960								
350S-44	5	Y3551-4	220	6000	1820	355	780	900	630	4-φ28	300	3057.5	2577.5	955	350	460	460	30	16-φ23	
350S-44A		Y315L1-4	160		1340	315	865	508	508	4-φ28		856								
350S-26	4	Y315M-4	132	380	1340	315	865	457	508	4-φ28	300	2514.5	2224.5	726	350	500	460	30	16-φ23	
350S-26A		Y280M-4	90		1050	280	640	419	457	4-φ24		706								

单位 Unit: mm

S型双吸离心泵安装尺寸表(不带底座)

S type double-suction centrifugal pump installation dimension table(without foundation)

单位 Unit: mm

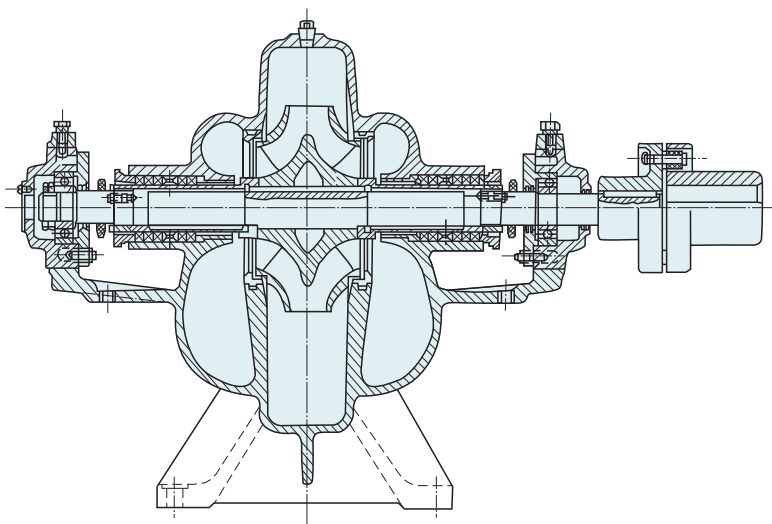
型 号 Type	C	电动机 Motor			电机尺寸 Dimension of motor							E	L	L ₂	吐出接管法兰尺寸 Flange of vomiting conical pipe				
		电机型号 Type of motor	功率 Power (kW)	电压 Voltage (V)	L ₁	H	h	B	A	n-φd ₁	Dg ₂				D ₂	Do ₂	b ₂	n-φd ₂	
350S-16	4	Y280S-4	75	380	1000	280	640	368	457	4-φ24			2132.5	684					
350S-16A		Y250S-4	55	380	930	250	575	349	406	4-φ24		-	2062.5	1169					
500S-98	7	Y5002-6	800	6000	2550	500	1040	1250	900	4-φ42			4196.5	1354					
500S-98A		Y4504-6	630	6000	2120	450	935	1120	800	4-φ35		1000	3766.5	1234	500	670	620	34	20-φ25
500S-98B		Y4503-6	560	6000	2120	450	935	1120	800	4-φ35			3766.5	1234					
500S-59	7	Y4501-6	450	6000	2120	450	935	1120	800	4-φ35			3766.5	1229					
500S-59A		Y4005-6	400	6000	1940	400	835	1000	710	4-φ35		800	3586.5	1169	500	670	620	34	20-φ25
500S-59B		Y4003-6	315	6000	1940	400	835	1000	710	4-φ35			3586.5	1169					
500S-35	6	Y4002-6	280	6000	1940	400	835	1000	710	4-φ35		800	3309.5	1017	500	670	620	34	20-φ25
500S-35 A		Y3553-6	220	6000	1820	355	780	900	630	4-φ28			3189.5	997					
500S-22	6	Y3553-6	220	6000	1820	355	780	900	630	4-φ28		600	3221.5	1010					
500S-22A		Y315L2-6	132	380	1340	315	865	508	508	4-φ28			2741.5	871	500	670	620	34	20-φ25
500S-13	5	Y315L1-6	110	380	1340	315	860	508	508	4-φ28		-	2653.5	815.5	-	-	-	-	-
600S-75	7	Y5003-6	900	6000	2550	500	1040	1250	900	4-φ42		600	4251.5	1292	500	670	620	34	20-φ25
600S-75A		Y5002-6	800	6000	2550	500	1040	1250	900	4-φ42			4251.5	1292					
600S-47	7	Y4503-6	560	6000	2120	450	935	1120	800	4-φ35		600	3821.5	1172	500	670	620	34	20-φ25
600S-32	6	Y4005-6	400	6000	1940	400	835	1000	710	4-φ35		-	3573.5	1053	-	-	-	-	-
600S-32A		Y4002-6	280	6000	1940	400	835	1000	710	4-φ35			3555.5	1053					
600S-32B	6	Y3554-6	250	6000	1820	355	780	900	630	4-φ32			3435.5	1013					
600S-22		Y3554-6	250	6000	1820	355	780	900	630	4-φ32		-	3292.5	956	-	-	-	-	-
600S-22A		Y3553-6	220	6000	1820	355	780	900	630	4-φ28			3292.5	956					

S型双吸离心泵安装尺寸表(不带底座)
S type double-suction centrifugal pump installation dimension table(without foundation)

型 号 Type	C	电动机 Motor			电机尺寸 Dimension of motor							E	L	L ₂	吐出锥管法兰尺寸 Flange of vomiting conical pipe				
		电机型号 Type of motir	功率 Power (kW)	电压 Voltage (V)	L ₁	H	h	B	A	n-φ d ₁	Dg ₂				D ₂	Do ₂	b ₂	n-φ d ₂	
800S-22	6	Y450-8	450	380	2080	450	1650	1120	800	4-φ 35	800	4190	1191	800	1015	950	42	24-φ 33	
		Y450-10	250		2080	450	1650	1120	800	4-φ 35		4190	1191						
Y450-8		315	2080		450	1650	1120	800	4-φ 35	4190		1191							
Y355L-10		185	1590		355	990	630	610	4-φ 28	3700		1050							
Y450-10		200	2080		450	1650	1120	800	4-φ 35	4190		1191							
800S-32	7	Y500-8	630	6000	2220	500	1900	1250	900	4-φ 42	1000	4530	1457						
		Y450-10	315		2080	450	1650	1120	800	4-φ 35		4390	1337						
Y450-8		450	2080		450	1650	1120	800	4-φ 35	4390		1337							
Y450-10		250	2080		450	1650	1120	800	4-φ 35	4390		1337							
Y1000-8/1180		1000	2480		930	1690	1800	1400	4-φ 48	4990		1368							
800S-47	8	Y500-10	450	6000	2220	500	1900	1250	900	4-φ 42	1000	4730	1593						
		Y500-8	710		2220	500	1900	1250	900	4-φ 42		4730	1593						
Y450-10		355	2080		450	1650	1120	800	4-φ 35	4590		1473							
Y1600-8/1430		1600	2690		950	1860	1900	1750	4-φ 48	4970		1423							
Y800-10/1180		800	2380		930	1690	1700	1400	4-φ 48	4660		1343							
800S-76	8	Y1250-8/1430	1250	6000	2540	930	1860	1800	1750	4-φ 48	1000	4820	1373						
		Y500-10	630		2220	500	1900	1250	900	4-φ 42		4500	1568						
Y1000-8/1180		1000	2480		930	1690	1800	1400	4-φ 48	4760		1343							
Y500-10		500	2220		500	1900	1250	900	4-φ 42	4500		1568							
800S-76B																			

单位 Unit: mm

零件和范围清单的材料 Material of parts and range list



零件材料表 Table of the major parts material

零件名称 Materials of components	材料名称 Names of materials	材料牌号 Trademarks of materials
泵壳 Casing	灰铸铁Gray cast iron 球墨铸铁Ductile cast iron 铸钢Cast steel 不锈钢Stainless steel 双相钢Duplex steel	HT250/GG25/A278 QT400-18/QT450-10 ZG230-450/SCS4/SCS5/SCS11/SCS13/A216/WCB SUS304/SUS316/SUS316L 2205/2507
叶轮 Impeller	灰铸铁Gray cast iron 铸钢Cast steel 黄铜Brass 青铜Bronze 不锈钢Stainless steel 双相钢Duplex steel	HT250/GG25/A278 ZG230-450/SCS5/SCS11/A216/WCB ZCuZn16Si4 ZCuSn10Pb1/ ZCuAlFe9-4/ ZQSu10-1 SUS304/SUS316/SUS316L 2205/2507
轴 Shaft	不锈钢Stainless steel 碳钢Carbon steel 双相钢Duplex steel	SUS420/1Cr13/ 2Cr13/ 3Cr13/SUS304 40Cr/S35C/S45C 2205/2507
轴套 Shaft sleeve	铸铁Cast iron 不锈钢Stainless steel	HT200/HT250 SUS304/SUS316/SUS316L
泵壳/叶轮密封环 Casing/impeller wear ring	灰铸铁Gray cast iron 铸钢Cast steel 青铜Bronze 黄铜Brass 不锈钢Stainless steel 双相钢Duplex steel	HT250/GG25/A278 ZG230-450/SCS5/SCS11/SCS13/A216/WCB ZCuSn10Pb1/ ZCuAlFe9-4/ ZQSu10-1 ZCuZn16Si4 SUS304/SUS316/SUS316L 2205/2507
填料环 Lantern ring	灰铸铁Gray cast iron 铸钢Cast steel 不锈钢Stainless steel 双相钢Duplex steel 青铜Bronze 黄铜Brass	HT250/GG25/A278 ZG230-450/SCS5/SCS11/SCS13/A216/WCB SUS304/SUS316/SUS316L 2205/2507 ZCuSn10Pb1/ ZCuAlFe9-4/ ZQSu10-1 ZCuZn16Si4
填料压盖 Gland	灰铸铁Gray cast iron 铸钢Cast steel 黄铜Brass 青铜Bronze 不锈钢Stainless steel 双相钢Duplex steel	HT250/GG25/A278 ZG230-450/SCS5/SCS11/SCS13/A216/WCB ZCuZn16Si4 ZCuSn10Pb1/ ZCuAlFe9-4/ ZQSu10-1 SUS304/SCS4/SCS5/SCS11/SCS13/ SUS316/SUS316L 2205/2507
联轴器 Coupling	铸铁Cast iron	HT250/ GG25/ A278

泵体材料介质适应表 Table of the pump casing materials suitable for the media

符号说明 Symbol meaning

符号 symbol	说明(耐蚀情况, 腐蚀率、毫米/年) Notice(about corrosion resisting, corrosive rate:mm/year)	
A	优良, <0.05	Excellet, <0.05
B	良好, <0.05~0.5	Good, <0.05~0.5
C	可用, 但腐蚀较重, 0.5~1.5	Use, but severe corrosive, 0.5~1.5
D	不适用, 腐蚀严重, >1.5	Unsuitable, severe corrosive, >1.5
*	可能产生应力腐蚀破裂	Possibly to produce stress corroded cracking
△	溶液或介质变色	Color change with solution or medium
∅	可能产生晶间腐蚀	Possibly to form corrosion between crystals
∞	可能产生孔蚀	Possibly to produce hole corrosion

铸铁和低碳钢泵适应介质表

Table of the media suitable to both cast iron and low carbon steel made pumps

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
过氧化氢(双氧水) Hydrogen peroxide	10	B	B	B	B
	20~40	D			
氨 水 Ammonia	<30	A	B	B	B
	40	A			
甲 醇 Methanol	<100	B	B	B	B
	100	A	A	A	A
乙 醇 Ethanol	<100	A	A	A	
	100	A	A	A	A
丙 醇 Propyl alcohol		A	A	A	A
丁 醇 Butanol		A	A	A	A
		B(120)			
甲 醛 Ormaldehyde	10~30	D			
	40~50	C			
	80~90			D	D
	100	A	A	A	A
乙 醛 Acetaldehyde	10	C	C		
	100	A	A	A	
丙 醛 Propionic aldehyde		A	A		
丁 醛 Butyric aldehyde		A	A	A	A
(二)甲醚 Dimethyl ether		B	B	B	B
丙 酮 Acetone	<100	B			
	100	A	A	A	A
甲 烷 Methane		A	A	A	A
		A(120)			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
乙 烷 Elayl		A	A	A	A
		A(120)			
乙 烯 Ethane		A	A	A	A
丙 烷 Propane		A	A	A	A
		A(120)			
丁 烷 Tetrane		A	A	A	A
汽油(高辛烷值) Gasoline(high octane value)		B	B	B	
汽油(喷油机燃料) Gasoline(fuel for oil sprayer)		B	B	B	
汽油(含H ₂ S) Gasoline(containing H ₂ S)		B			
汽油(含HCL, SO ₂ , H ₂ O) Gasoline(containing HCL, SO ₂ , H ₂ O)		C	C		
煤 油 Coal oil		B	B	B	B
三乙醇胺 Triethanolamine		B	B	B	B
植物油 Vegetable oil	100	A	A	A	A
		A	D		
	90	D	产生催化 Producing catalyze		
豆油 Soy bean oil		B	B		
玉米油 Corn oil		B	B	B	
棉籽油 Cottonseed oil		B	B	B	
饮用水 Drinking water		B	B	B	
高纯水 High pure water		A			
		A	A		
海 水 Sea water	流 速 Flowrate				
	<1.5m/s	B			
	>1.5m/s	D	D		
水 PH=7 Water PH=7		C	C	C	C

铸铁和低碳钢泵适应介质表

Table of the media suitable to the pump made of cast iron and low carbon steel

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
硝酸钠 [∞] Sodium nitrate [∞]	<70	A	A	A	A
		A(沸点) A(Boiling point)			
	100	B		D	
碳酸钠 Sodium carbonate	10	A	A	A	A
		A(沸点) A(Boiling point)			
	20~40	B	B	A	A
	100	A	A	A	B
碳酸钠 Sodium carbonat	100	D*(400)		D*(900)	
氯化钠* [∞] Sodium chloride* [∞]	10~30	B	B	B	B
		B(沸点) B(Boiling point)			
	90	D			
	100	B	B	B	
		D(260)		D(700)	
氰化钠 Sodium cyanide	10	A	A	A	A
	20~30	A			
	40~100	A	A	A	D
		D(700)			
硅酸钠 Sodium silicate		A	A	A	A
		D(800)			
醋酸钠 [∞] Sodium acetate [∞]	10	A	A	A	A
		A(150)			
	20~60	B	B	B	B
	100	B	B	B	B
		B(370)			
柠檬酸钠 Sodium citrate	<40	B	B	B	B
	100	B			
硫酸钾 Potassium sulphate	<饱和	A	A	A	A
		A(沸点) A(Boiling point)			
	100	D(200)			
硝酸钾 Saturation	<80	B	B	B	B
		B(沸点) B(Boiling point)			
	100	A	A	A	A
		A(560)			
氟化钾 Potassium fluoride		B	B	B	B
氰化钾 Potassium cyanide	<30	A	A	A	A
	40~	B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
氰化钾 Potassium cyanide	90				
	100	B			
重铬酸钾 Heavy potassium chromate	<30	A	A	A	A
		A(沸点) A(Boiling point)			
	40~60	A	A	A	A
	100	B			
高锰酸钾 Potassium permanganate	<30	B	B	B	B
		B(沸点) B(Boiling point)			
	100	B			
氯化钙* [∞] Calcium chloride* [∞]	<20	A	A	A	D
	30~80	B	B	B	D
	100	B			
		D(150)			
氟化钙 Calcium fluoride	10	A	A	A	A
	100	A	A	A	A
过氧化氢(PH>7) Solozone(PH>7) (双氧水) (Hydrogen peroxide solution)	10~40	B	B	B	B
		B(沸点) B(Boiling point)			
	90	A	A		
	100	B			C
氨 水 Ammonium water		A	A	A	A
氨 (无水) Ammonium (free of water)		A	A	A	A
		A(316)		A(500)	
甲 醇 Methanol	<100	A	A	A	A
	100	A	A	A	C
乙 醇 Alcohol		A	B	B	B
丙 醇 Propanol		A	A	A	A
丁 醇 Butanol		A	A	A	A
甲 醛 [∞] Formaldehyde [∞]	<40	A	A	A	A
		A(150)			
	50	A	A	B	B
		B(300)			
	60~70	A	A		
	80~90	A	A	A	
	100	A			
乙 醛 Acetaldehyde		A	A	A	A
丙 醛 Propionic aldehyde		A			
丁 醛 Butyric aldehyde		A	A	A	A
(二)甲醚 Dimethyl ether		B	B	B	B

S SERIES SINGLE-STAGE DOUBLE-SUCTION HORIZONTAL SPLIT CENTRIFUGAL PUMP

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
水 PH<7 Water PH<7		D			
水 PH>7 Water PH>7		A	B		
硫酸 Sulphuric acid	<65	D	D		
	65~75	C	C	D	D
	75~100 ^①	B	C	D	D

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
	100	B	B	C	
铬酸 Chromic acid	<25	D			
	30~80	B			
	100	A			
硼酸 Boric acid	<10	C	C	C	C
		C(120)			
	>10	D		D	
70~90%硫酸+硝酸 70~90% sulphuric acid+nitric acid		A			
氢氧化钠 Sodium hydroxide	<30 ^②	A	B	B	B*
		D*(200)			
	30~40	A	B	B	C
	50~60	B	B	D	D
		D*(200)			
	80	B	D	D	D
	90			D	D
氯化铵 Ammonium hydride	<10	C	D		
		D	D		
	100	B			
硫酸钠(PH>7) Sodium sulphate(PH>7)		B	B	B	B
硝酸钠 Sodium nitrate	<90	A	A	B	C
	100	A	A	A	A
碳酸钠 Sodium carbonate		B(120)			
		A	A	A	A
氯化钠(含氧) Solidum chloride (containing oxygen)	10	D ^③	C	C	D
	20~30	C			D
	100	A			
氰化钠 Sodium cyanide	10	A	A	A	A
		A(120)			
	20~90	A	A	A	A

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
氢氟酸(不含氧) Hydrofluoric acid (containing no oxygen)	<70	D	D		
	70~90	C			
	100	B	B		
氢氟酸(含氧) Hydrofluoric acid (containing oxygen)	<70	B	B		
	70~90	C			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
	100	A	A	A	A
		B(120)			
碳酸氢钠 Sodium bicarbonate	<100	B	B	B	B
	100	C			
硅酸钠 Sodium silicate		B	B	B	B
		B(120)			
柠檬酸钠 Sodium citrate	10	D			
	100	A			
硫酸钾△ Potassium sulphate△	10~20	B	B	B	D ^④
		D			
	100	A			
硝酸钾 Potassium nitrate	<90	B	B	B	B
	100	A	A	A	A
		A(120)			
氟化钾 Potassium fluoride	20	B	B	B	
	100	A	B	B	B
氰化钾 Potassium cyanide	<50	C ^④	C	C	C
	60~70			C	C
	80~90	B			C
	100	B	B	B	B
重铬酸钾 Heavy Potassium chromate	<60	B	B	B	B
		B	120		
	100	B	B	B	B
高锰酸钾 Potassium permanganate	<100	B	B	B	C
	100	B			
氯化钙 Lime chloride	10	A	A	A	A
		A(120)			
	20~70	B	B	C	D
		A	A	A	A
氟化钙 Calcium fluoride	90	C			
	100	B	B	B	B

注：①高转速泵、阀，以用高铬镍不锈钢为好。铸铁优于碳钢，可用于80~100℃以下。②铸铁不耐100℃。③铸铁为C。④铸铁为D。

Note: ①It is better to use the high Cr-Ni stainless steel for the pump and valve of a high rotating speed. Cast iron is better than carbon steel. May be used below 80~100℃.

②Cast iron does not withstand 100℃. ③Cast iron to be C. ④Cast iron to be D.

铬18镍19不锈钢(304, 304L)泵适应介质表

Table of the media suitable to the pump made of cr18ni9 stainless steel(304,304L)

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
无机酸 Inorganic acid					
硫酸*(不充气) Shlphuric acid* (without gas filled)	<5	B	D		
	10~80	D	D		
	90	B	D		
	100	B	C		D
硫酸*(充气) Shlphuric acid* (gas filled)	<20	C	D		
	30~60	D	D		
	70~80	C	D		
	90~100	B	C	D	D
发烟硫酸 Fuming sulphuric acid		D			
硝酸 Nitric acid	<30	A	A	A	A
	40~60	C(120)		D(150)	
	70				
盐酸 Chlorhydric acid		D			
磷酸 Phosphoric acid	<5	B	B	B	B
		B(沸点) B(Boiling point)			
	10	B	D	D	D
	10~85	D(沸点) D(Boiling point)			
氢氟酸(不充气)*∞ Hydrofluoric acid (without gas filled)*∞	<100	D			
	100	B	D		
氢氟酸(充气)*∞ Hydrofluoric acid (gas filled)*∞		D		D	
铬酸*∞ Chromic acid*∞	<10	B	C	C	
		C(沸点) C(Boiling point)			
	20~30	B	D	D	D
	50	D			
硼酸∞ Boric acid∞	100	D			
	<30	A	A	A	A
		A(沸点) A(Boiling point)			
	40	B	B	B	B
		B(150)			
	50	B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
硼酸∞ Boric acid∞	70~80	D			
	70~80	D(120)			
	100	B	B		
		D(200)			
混酸: 硫酸>50%+硝酸 <50%+水>20% Mixed acid: sulphuric acid>50%+nitric acid <50%+water>20%		B	B	B	D(沸点) D(Boiling point)
硫酸20~60%+硝酸 <25%+水>20% Sulphuric acid 20~ 60%+nitric acid<25%+water>20%		D			
硫酸15%+硝酸 5%+水80% Sulphuric acid 15%+nitric acid 5%+water 80%		B	B	B	B (沸104) (Boiled 104)
氢氧化钠 Sodium hydroxide	<50	A	C	C	D
		D*(200)			
	70*	B	B	B	D*
		D*(200)			
	80*	B	B	B	D
		D*(200)			
	100	B	B	B	B
		C(316)		D(370)	
氢氧化钾* Potassium hydroxide*	<50	B	B	B	B
		B(沸点) B(Boiling point)			
	50	B	B	B	D
		D(200)			
	60~70	B	B	B	C
		C(120)			
	80	B			D
		D(200)			
氢氧化钾 Potassium hydroxide	100	A			
		D(250)			
硫酸钠* Sodium sulphate*		A	A	A	A
		A(200)		B(840)	

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
乙 醚 Ethyl ether		A	A	A	A
丙 酮 Acetone		A	A	A	A
甲 烷 Methane		A	A	A	A
		A(370)			
乙 烷 Ethane		A	A	A	A
		A(316)			
丙烷(液及气) Propane(liquid and gas)		A	A	A	A
丁 烷 Tetrane		A	A	A	A
汽油(高辛烷值) Gasoline(high value of octane)		B	B	B	
汽油(喷汽机燃料) Gasoil(fuel of steam sprayer)		B	B	B	
煤 油 Coal oil		A	A	A	A
		A(200)			
三乙醇胺 Triethanolamine		B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
植物油 Vegetable oil		A	A	A	A
		A(350)			
豆 油 Soy bean oil		A	A	A	A
玉米油 Corn oil		A	A	A	A
棉子油 Cottonseed oil		A	A	A	A
饮用水 Drinking water		A	A	A	A
海 水 Sea water	流 速 Flowrate				
	<1.5m/s	A [∞]		A	
	>1.5m/s	A [∞]			

铬18镍12钼(钛)(316,316L)不锈钢泵的适应介质表

Table of the media suitable to the pump made of Cr18Ni12Mo(Ti) (316,316L) stainless steel

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
硫酸 [®] (充气) Vitriol [®] (gas filled)	<5	B	B	D	D
	10~30	B	C	D	D
	40~50	C	D	D	
	60~70	D	D	D	
	90	B ^①	C	D	D
	100	B	C	C	C
硫酸 [®] (不充气) Vitriol [®] (without gas filled)	<5	B	D	D	D
	20~80	D	D	D	D
	80~90	B	D	D	
	100	B	B	B	C
硝 酸 Nitric acid	<20	A	A	A	A
		C(120)		D(150)	
	30~60	A	B	B	B
		D(120)			
	70	A	B	B	
	80	A	B	D	
	90	A	D		
	100	A ^②	D		
磷酸 [®] (充气) Phosphoric acid (gas filled)	<25	A	A	A	A
	25-50	A(沸点) A(Boiling point)		D(>120)	

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
磷酸 [®] (不含氧) Phosphoric acid [®] (containing no oxygen)	50~85	D(120)			
		A	B	B	B
		D(120)			
	90	D			
	100	B			
磷酸 [®] (不充气) Hydrofluoric acid (without gas filled)	<100	D			
	100	B			
氢氟酸(充气) Hydrofluoric acid (gas filled)	<10	B			
	10~90	D			
	100	B			
碳 酸 Carbethylic acid	10	B			
	30				A
	100	A	A	A	A
		A(816)			
铬 酸 Chromic acid		D			D
氯 酸 [∞] Chloric acid [∞]		D			
四磷酸 Tetra-phosphoric acid		B			
硼 酸 [∞] Boric acid [∞]	<10	A	A	A	A
	20~50	A(沸点) A(Boiling point)			
		B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
		B(150)		B(沸点) B(Boiling point)	
		70~80	B	D(120)	
王水 Nitro-hydrochloric acid	100	B	B	D(250)	
混酸: 硫酸>50%+硝酸<50%+水<20% Mixed acid: sulphuric acid>50%+nitric acid<50%+water<20%		D			
混酸: 硫酸20~60%+硝酸<25%+水<20% Mixed acid: sulphuric acid>20~60%+nitric acid<25%+water<20%		B	B	B	
混酸: 硫酸30%+硝酸15%+水55% Mixed acid: sulphuric acid 30%+nitric acid 15%+water55%		D(沸点) D(Boiling point)			
混酸: 硫酸15%+硝酸5%+水80% Mixed acid: sulphuric acid 15%+nitric acid 5%+water80%		D			
甲酸 [∞] Aminic acid	<5	B	B	B	B
	>5	C	C	C	C
醋酸 [∞] (不充气) (乙酸) Acetic acid [*] (without gas filled) (acetic acid)	<50	B	B	B	B
	60~90	B	B	B	B
	100	B	B	B	B
醋酸(充气) Acetic acid (gas filled)	<40	A	A	A	A
	50	A	B	B	B
	60~90	A	B	B	C
	100	A	B	B	C
氢氧化钠 Sodium hydroxide	<20	A	A	A	A
	30~50	B(沸点) B(Boiling point)		D(150)	
	70	A	A	B	B
	80	A	A	B	D*

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
		B(150)		B(沸点) B(Boiling point)	
		70~80	B	D(120)	
氢氧化钠 Sodium hydroxide	100	A	A	A	A
氢氧化钾* Potassium hydroxide*	<50	A	A	A	A
	50	B	B	B	D
	60~70	B	B	B	C
	80	B			
	100	A			
硫酸钠 Sodium sulphate		A	A	A	A
硝酸钠 Sodium nitrate	<70	A	A	A	A
	100	B			
碳酸钠 Sodium carbonate	10	A	A	A	A
	20~40	B	B	A	A
	100	B	B	B	B(260)
氯化钠* [∞] Sodium chloride* [∞]	10	B	D		
	20~30	B	B	B	B
	90	D			
	100	A		D(700)	
碳酸氢钠 Sodium bicarbonate	<10	A	A	A	A
氰化钠 [∞] Sodium cyanide* [∞]	20~30	A			
	40~100	B			D
硅酸钠 Potassium silicate		A	A	A	A
硫酸钠 Potassium sulphate	<100	A	A	A	A

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
硝酸钾 Potassium nitrate	100	A			
	<80	B	B	B	B
		B(沸点) B(Boiling point)			
	100	B			
碳酸钾 Potassium bicarbonate		B(550)			
	<70	B	B	B	B
		B(沸点) B(Boiling point)			
氟化钾 Potassium fluoride	100	B	B	B	B
氰化钾 Potassium cyanide	<90	B	B	B	B
	100	B			
重铬酸钾 Heavy potassium chromate	<30	A	A	A	A
		A(沸点) A(Boiling point)			
	40~60				A
高锰酸钾 Potassium permanganate	10	B			
	<30	B	B	B	B
氯化钙** Calcium chloride**	10	B	D		
	20~30	B	B		
	40~90	B	B	B	
		D(沸点) D(Boiling point)			
	100	A	A	A	A
氟化钙 Calcium fluoride	50	C(-18)			
	10	A	A	A	A
甲醇 Methanol	100	A	A	A	A
	<100	A	A	A	A

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
乙醇 Alcohol	100	A	A	A	A
乙二醇 Ethandiol		A	A	A	A
甲醛** Formaldehyde**	<40	A	A	A	A
		A(150)			
	50	A	A	B	B
		B(300)			
	60~70	A	A		
乙醚 Ethyl ether	80~90	A	A	A	
	100	A			
丙酮 Acetone		A	A	A	A
醋酸乙酯 Ethyl ester acetate		A	A	B	B
甲苯 Toluene		A	A	A	A
		A(沸点) A(Boiling point)			
汽油 Gasoline		A	A	A	A
		A(175)			
煤油 Coal oil		A	A	A	A
		A(200)			
苯酚 Phenyl hydroxide	70~90	B	B	B	B
		B(150)		D(200)	
海水 Sea water	流速 Flowrate				
	<1.5m/s	A**		A(PH≈7)	
	>1.5m/s	A**			

注：① Cr26Mol铁素体钢不耐蚀；
 ② 高流速和摩擦会增加腐蚀；
 ③ 不许含微量盐酸、硫酸或氯化钠。Cr26Mol铁素体钢耐蚀较好。

Note: ① Cr26Mol ferritic steel does not withstand corrosion;
 ② High flowrate and friction may increase corrosion;
 ③ Not allowed to contain micro chlorhydric acid, sulphuric acid or sodium chloride. Cr26Mol ferritic steel is of a better corrosion resistance.

钛及钛合金泵的适应介质表

Table of the media suitable to the pump of titanium and titanium alloy

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
硫酸 ^① (充气) Vitriol ^① (gas filled)	1	B	B	B	B
		B(沸点) B(Boiling point)			
	<3	B	B		D
	<10	B	C	D	D
	10~30	B	C	D	
	40~50	C	D		
硫酸(不充气) Vitriol (without gas filled)	50~100	D	D		
	<10	B			
	10~100	D			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
硝酸 Nitric acid	10	A	A	A	A(150)
		B(200)			
	20	A	A	A	
		A(150)			
	30~80	B(200)			
		D(316)			
	80~100	A	A	A	A(150)
		D(200)			
		A	A	B	
		B(150)			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
盐酸 ^① (不充气) Chlorhydric acid ^① (without gas filled)	10	B	D		
	20	C	D		
	>30	D			
盐酸 ^① (充气) Chlorhydric acid ^① (gas filled)	1	B	B	B	B(沸点) B(Boiling point)
	<20	B			D(35)
	30	B	D		
	>50	D			
磷酸(充气) Phosphoric acid (gas filled)	5	B	B	B	B
	<10	B	B	B	
磷酸(充气) Phosphoric acid (gas filled)		D(沸点) D(Boiling point)			
	10~20	B	D		
	30	B	C		D
	40	C	C		
	50~70	C	C	D	
	100	D			
磷酸 ^① (不充气) Phosphoric acid ^① (without gas filled)		D			
铬 酸 Chromic acid	10	A	A	A	A
		A(沸点) A(Boiling point)			
	<90	A	A	A	A
硼 酸 Boric acid	10	A	A	A	A
		A(沸点) A(Boiling point)			
	<饱和 <Saturation	A	A	A	A
盐酸1%+硝酸3% Chlorhydric acid 1%+nitric acid 3%		A			
盐酸2%+硝酸1% Chlorhydric acid 2%+nitric acid 1%		A			
王 水 Nitro-hydrochloric acid		A	A	B	B
盐酸4%+硝酸1% Chlorhydric acid 4%+nitric acid 1%		A			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
甲酸(不充气) Aminic acid (without gas filled)	<10	A	A	A	
		A(沸点) A(Boiling)			
	30	D			D
	<50	B	B	D	D
甲酸(充气) Amini acid(gas filled)	90			D	D
		B	B	B	B
醋 酸 Acetic acid		A	A	A	A
		A(200)			
氢氧化钾 Potassium hydroxide	10	A	A	A	A
氢氧化钾 Potassium hydroxide	20~100	A(沸点) A(Boiling point)			
		B			D(沸点) D(Boiling point)
氢氧化钠 Sodium hydroxide	10	D(260)			
		A	A	A	A
硫酸钠 Sodium sulphate	10~30	A	A	A	A
		A(沸点) A(Boiling point)			
	饱和 Saturation	A	A		
		D(900)			
硝酸钠 Sodium nitrate	<饱和 <Saturation	A	A	A	A
		A(300)			
氯化钠 Sodium chloride	<饱和 <Saturation	A	A	A	A
		A(沸点) A(Boiling point)			
	100	A*(沸点) A*(Boiling point)			
乙醇* ^② Alcohol*		A	A	A	A
乙二醇 Ethandiol		A	A	A	A
乙 醚 Ethyl ether		A	A	A	A
丙 酮 Acetone		A	A	A	A
醋酸乙酯 Ethyl ester acetate		A	A	A	A
甲 苯 Toluene		A	A	A	A
苯 酚 Phenyl hydroxide		A			

注：①含Cu、Ni等离子或其他氧化剂能降低腐蚀。

②含微量Cl⁻的甲、乙醇可能产生应力腐蚀破裂，含2%以上的水时可避免。

Note: ①Containing Cu, Ni etc. ions or other oxidants can lower the corrosion.

②Both methanol and alcohol containing micro Cl⁻ may produce stress corrosive cracking, which can be avoided by containing more than 2% water.

ZG00Cr20Ni25Mo4.5Cu1.5(904L)耐腐蚀性能表
 ZG00Cr20Ni25Mo4.5Cu1.5(904L) Table of anti-corrosive performance

介质名称 Medium name	介质条件 Medium condition		腐蚀情况 Corrosion condition
	浓度 Concentration(%)	温度 Temperature(°C)	
硫 酸 Vitriol	5-40	60	A
	10	80	B
	20	70	B
	30	70	B
	40	30-50	A
	50	40	A
	50	50	B
	60	20-35	A
	60	40	B
	80-98	40	A
	80-98	50	B

介质名称 Medium name	介质条件 Medium condition		腐蚀情况 Corrosion condition
	浓度 Concentration(%)	温度 Temperature(°C)	
硝 酸 Nitric acid	10-40	20-沸腾 20-Boiling	A
	50	100	A
	60	90	A
	70	100	B
	80	80	B
	1-80	沸腾 Boiling	A
醋 酸 Acetic acid	99.5	200	A
	100	20-75	A
	100	100	A
	100	沸腾 Boiling	A

ZG1Cr13(410)耐腐蚀性能表
 ZG1Cr13(410) Table of anti-corrosive performance

介质条件 Medium condition			延续时间 Extended time	腐蚀情况 Corrosion condition
介质名称 Medium name	浓度 Concentration(%)	温度 Temperature(°C)	h	
硝 酸 Nitric acid	5	20		A
	7	20	720	A
	5	沸腾 Boiling		D
	20	20		A
	20	沸腾 Boiling		A
	50	20		A
	50	沸腾 Boiling	24	C
	65	20		A
	65	沸腾 Boiling	24	D
	90	20		A
	90	沸腾 Boiling		D
醋 酸 Acetic acid	10-50	20		C
	10	沸腾 Boiling		D
蚁 酸 Formic acid	10-50	20		A
	10-50	沸腾 Boiling		D
柠檬酸 Citric acid	1	20		A
	1	沸腾 Boiling		D
	25	20	720	C
氨 Ammonia	溶液或气体 Solution or air	20-100		A
氢氧化钠 Sodium hydroxide	20	20		A
	20	沸腾 Boiling		A
	50	100		D
	浓 液 Thick liquid	20		A

介质条件 Medium condition			延续时间 Extended time	腐蚀情况 Corrosion condition
介质名称 Medium name	浓度 Concentration(%)	温度 Temperature(°C)	h	
草 酸 Oxalic acid	浓 液 Thick liquid	20		A
	浓 液 Thick liquid	沸腾 Boiling		D
硝酸铵 Ammonium nitrate	约65 About 65	20	1127	A
	约65 About 65	125	110	C

S型泵附件表 S type pump spare parts table

型 号 Type	电 动 机 Motor		底 阀 Foot valve P=0.25MPa	滤水器 (代号) Water filter (code)	闸 阀 Gate valve P=1MPa	止 回 阀 Check valve P=1MPa	吐出锥管 (代号) Vomiting conical pipe(code)	底座 (代号) Foundation (code)	B4201 钩 扳 手 Hook wrench (代 号)(code)
	型 号 Type	功率 Power (kW)							
150S-100	Y280S-2	75	φ 150	-	φ 150	φ 150	Z100×10-150×10	D150S-100-Y280S-2	4552
150S-78	Y250M-2	55	φ 150	-	φ 150	φ 150	Z100×10-150×10	D150S-78-Y250M-2	4552
150S-78A	Y225M-2	45						D150S-78A-Y225M-2	
150S-50	Y200L-2	37	φ 150	-	φ 150	φ 150	Z100×10-150×10	D150S-50-Y200L-2	4552
150S-50A	Y200L-2	30						D150S-50A-Y200L-2	
150S-50B	Y180M-2	22						D150S-50B-Y180M-2	
200S-95	Y315M-2	132	φ 200	-	φ 200	φ 200	Z125×10-200×10	-	6872
200S-95A	Y315S-2	110							
200S-95B	Y280S-2	75							
200S-63	Y280S-2	75	φ 200	-	φ 200	φ 200	Z150×10-200×10	D200S-63-Y280S-2	4552
200S-63A	250M-2	55						D150S-78-Y250M-2	
200S-42	Y225M-2	45	φ 200	-	φ 200	φ 200	Z150×10-200×10	D200S-42-Y225M-2	4552
200S-42A	Y200L-2	37						D200S-42A-Y200L-2	
250S-65	Y315M-4	132	φ 250	-	φ 250	φ 250	Z150×10-250×10	-	7885
250S-65A	Y280M-4	90							
250S-39	Y280S-4	75	φ 250	-	φ 250	φ 250	Z200×10-250×10	D250S-39-Y280S-4	6872
250S-39A	Y250M-4	55						D250S-39A-Y250M-4	
250S-24	Y225M-4	45	φ 250	-	φ 250	φ 250	Z200×10-250×10	D250S-24-Y225M-4	6872
250S-24A	Y225S-4	37						D250S-24A-Y225S-4	
250S-14	Y200L-4	30	φ 250	-	φ 250	-	Z200×10-250×10	D250S-14-Y200L-4	4552
250S-14A	Y180M-4	18.5						D250S-14A-Y180M-4	
300S-90	Y355A-4	315	φ 300	-	φ 300	φ 300	Z200×10-300×10	-	9095
300S-90A	Y355S-4	280							
300S-90B	Y355L-4	220							
300S-58	Y315L-4	200	φ 300	-	φ 300	φ 300	Z250×10-300×10	-	7885
300S-58A	Y315L-4	160							
300S-58B	Y315M-4	132							

注：吐出锥管及钩扳手为随泵附件，其余按订货要求配带。

Note: Both vomiting conical pipe and hook wrench are the accessories along with the pump and others may be fitted upon the requirement at order.

S型泵附件表 S type pump spare parts table

型 号 Type	电 动 机 Motor		底 阀 Foot valve P=0.25MPa	滤水器 (代号) Water filter (code)	闸 阀 Gate valve P=1MPa	止 回 阀 Check valve P=1MPa	吐出锥管 (代号) Vomiting conical pipe(code)	底座 (代号) Foundation (code)	B4201 钩 扳 手 Hook wrench (代 号) (code)
	型 号 Type	功率 Power (kW)							
300S-32	Y280M-4	90	φ 300	-	φ 300	φ 300	Z250×10-300×10	D300S-32-Y280M-4	7885
300S-32A	Y280S-4	75						D300S-32A-Y280S-4	
300S-19	Y250M-4	55	φ 300	-	φ 300	φ 300	Z250×10-300×10	D300S-19-Y250M-4	6872
300S-19A	Y225M-4	45						D300S-19A-Y225M-4	
300S-12	Y225S-4	37	φ 300	-	φ 300	-	-	D300S-12-Y225S-4	6872
300S-12A	Y200L-4	30						D300S-12A-Y200L-4	
350S-12S	Y4502-4	710	-	L350 (73)	φ 350	φ 350	Z200×16-350×16	-	100110
350S-12SA	Y4501-4	630							
350S-12SB	Y4004-4	500							9095
350S-7S	Y4001-4	365							
350S-7SA	Y3553-4	280	-	L350 (73)	φ 350	φ 350	Z250×10-350×10	-	9095
350S-7SB	Y3551-4	220							
350S-44	Y3551-4	220	-	L350 (73)	φ 350	φ 350	Z300×10-350×10	-	7885
350S-44A	Y315L1-4	160							
350S-26	Y315M4	132	-	L350 (73)	φ 350	φ 350	Z300×10-350×10	-	6872
350S-26A	Y280M-4	90							
350S-16	Y280S-4	75	-	L350 (73)	φ 500	-	-	-	135145
350S-16A	Y250M-4	55							
500S-98	Y5002-6	800	-	L500 (73)	φ 500	φ 500	-	-	100110 115130
500S-98A	Y5001-6	710							
500S-98B	Y4503-6	560							9095
500S-59	Y4501-6	450							
500S-59A	Y4005-6	400	-	L500 (73)	φ 500	φ 500	Z350×10-500×10	-	7885
500S-59B	Y4003-6	315							
500S-35	Y4002-6	280	-	L500 (73)	φ 500	φ 500	Z350×10-500×10	-	9095
500S-35A	Y3553-6	220							
500S-22	Y3553-6	220	-	L500 (73)	φ 500	φ 500	-	-	7885
500S-22A	Y355L2-6	132							

注：吐出锥管及钩扳手为随泵附件，其余按订货要求配带。

Note: Both vomiting conical pipe and hook wrench are the accessories along with the pump and others may be fitted upon the requirement at order.

S型泵附件表 S type pump spare parts table

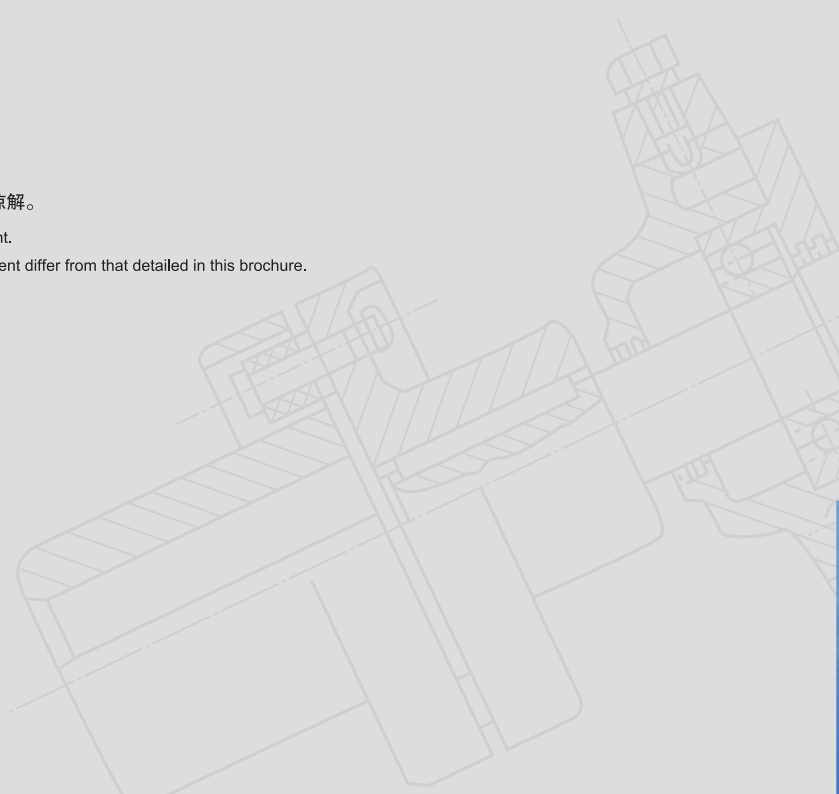
型 号 Type	电 动 机 Motor		底 阀 Foot valve P=0.25MPa	滤水器 (代号) Water filter (code)	闸 阀 Gate valve P=1MPa	止 回 阀 Check valve P=1MPa	吐出锥管 (代号) Vomiting conical pipe(code)	底座 (代号) Foundation (code)	B4201 钩 扳 手 Hook wrench (代 号)(code)
	型 号 Type	功率 Power (kW)							
500S-13	Y355L-6	110	-	L500(73)	φ 500	φ 500	-	-	7885
600S-75	Y5003-6	900	-	L600 (73)	φ 500	φ 500	Z400×10-500×10	-	135145
600S-75A	Y5002-6	800	-	L600(73)	φ 500	φ 500	Z400×10-500×10	-	135145
600S-47	Y4503-6	560	-	L600(73)	φ 500	φ 500	-	-	135145
600S-32	Y4005-6	400	-	L600 (73)	φ 500	φ 500	-	-	100110 115130
600S-32A	Y4002-6	280	-	L600 (73)	φ 500	φ 500	-	-	9095
600S-32B	Y3554-6	250	-	L600 (73)	φ 500	φ 500	-	-	9095
600S-22	Y3554-6	250	-	L600 (73)	φ 500	φ 500	-	-	9095
600S-22A	Y3553-6	220	-	L600 (73)	φ 500	φ 500	-	-	9095
800S-22	Y450-8	450	-	L800	φ 600	φ 600	-	-	9095
800S-22A	Y450-10	250	-	L800	φ 600	φ 600	-	-	9095
800S-22A	Y450-8	315	-	L800	φ 600	φ 600	-	-	9095
800S-22A	Y355L-10	185	-	L800	φ 600	φ 600	-	-	9095
800S-22A	Y450-10	200	-	L800	φ 600	φ 600	-	-	9095
800S-32	Y500-8	630	-	L800	φ 600	φ 600	-	-	100110
800S-32A	Y450-10	315	-	L800	φ 600	φ 600	-	-	100110
800S-32A	Y450-8	450	-	L800	φ 600	φ 600	-	-	100110
800S-32A	Y500-10	250	-	L800	φ 600	φ 600	-	-	100110
800S-47	Y1000-8/1180	1000	-	L800	φ 600	φ 600	-	-	135145
800S-47A	Y500-10	450	-	L800	φ 600	φ 600	-	-	135145
800S-47A	Y500-8	710	-	L800	φ 600	φ 600	-	-	135145
800S-47A	Y450-10	355	-	L800	φ 600	φ 600	-	-	135145
800S-76	Y1600-8/1430	1600	-	L800	φ 800	φ 800	-	-	135145
800S-76A	Y800-10/1180	800	-	L800	φ 800	φ 800	-	-	135145
800S-76A	Y1250-8/1430	1250	-	L800	φ 800	φ 800	-	-	135145
800S-76A	Y500-10	630	-	L800	φ 800	φ 800	-	-	135145
800S-76A	Y1000-8/1180	1000	-	L800	φ 800	φ 800	-	-	135145
800S-76B	Y500-10	500	-	L800	φ 800	φ 800	-	-	135145

注：吐出锥管及钩扳手为随泵附件，其余按订货要求配带。
 Note: Both vomiting conical pipe and hook wrench are the accessories along with the pump and others may be fitted upon the requirement at order.

由于我们在不断努力改进产品，我们保留样本数据更改的权利，敬请谅解。

As we are constantly endeavouring to improve the performance of our equipment.

The company reserves the right to make alteration from time to time and equipment differ from that detailed in this brochure.



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