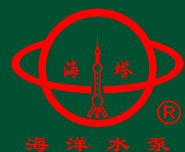
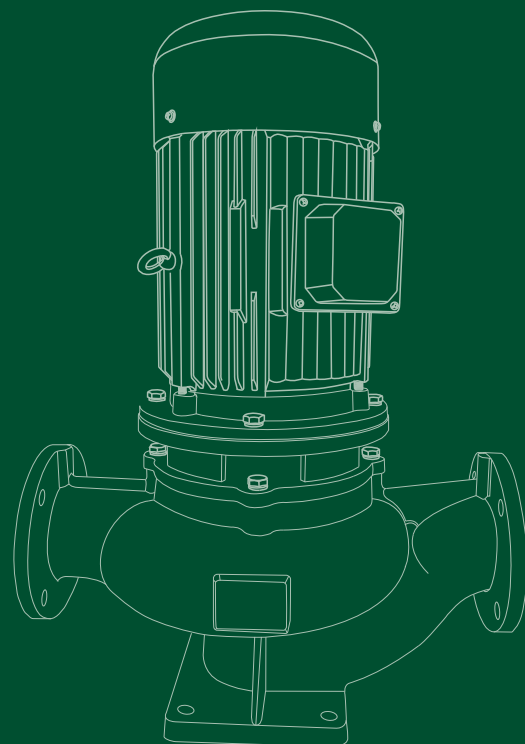
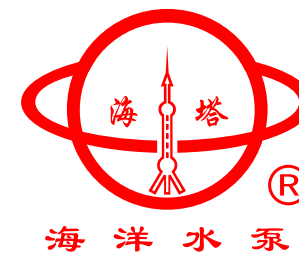


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Due to our continuous efforts to improve the product, we reserve the right to make changes to the sample data. We apologize for any inconvenience caused.



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**>>> GW系列
管道式排污泵**
GW series pipeline sewage pump

SEAPUMP

上海海洋泵阀制造有限公司
SHANGHAI SEA PUMP & VALVE MFG CO., LTD



企业简介 + AOBUTS

上海海洋泵阀制造有限公司是专业从事水泵、生活消防设备及水泵智能控制开发、生产、销售为一体的股份制企业，本公司运用先进的软件开发、设计产品保证了向顾客提供更优质的产品。

“海洋水泵，泵的海洋”，海洋产品在全国各地设有分公司以及售后服务处，产品已应用于工矿企业、城市污水处理、城市供水、石油化工、农业灌溉等行业。本厂资金雄厚，生产设备先进，检测手段完善，并拥有一批高素质的专业人才队伍，同时ISO9001:2015国际质量管理体系的良好动作，为制造出优质、可靠的产品打下坚实基础。

本公司在“以人为本，科技兴业；以诚为用，质量立业；勇于开拓，锐意进取；追求卓越，走向未来”的方针指导下，不断开拓进取创新发展，在长期的实践中形成了一套完整的质量体系，并配备了一支安装调试维护的售后服务队伍。销售网点辐射全国各大城市，产品行销全国各省、市、自治区，并出口东南亚等国。并以一流的产品、一流的服务赢得了国内外广大用户的信赖和好评。本公司以“一切为了顾客的满意”为宗旨，继往开来，与时俱进。服务于人类建设美好家园。

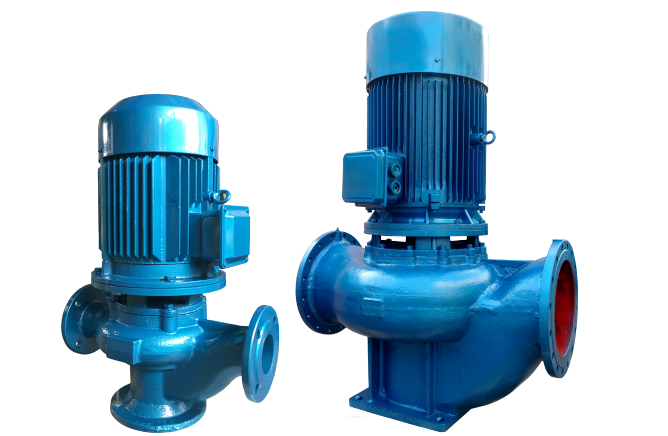
Shanghai HAIYANG pump & valve Co., Ltd. Is a joint-stock enterprises which specializes in the manufacture of water pumps, fire fighting equipment and pumps intelligent controlling production, sales in one. our company uses advanced software to develop and design products to ensure that customers provide better quality products.

" HAIYANG water pumps, pump of the sea", the HAIYANG products throughout the country with more than 30 branch offices as well as after-sales service, products have been used in industrial and mining enterprises, urban sewage treatment, urban water supply, petrochemicals, agriculture and irrigation sectors. Factory with a strong financial background, advanced production equipment and means of improving the detection and has a number of high-quality professional talent, while ISO9001: 2000 international quality management system of good moves, in order to create high-quality, reliable products to lay a solid foundation.

In this "people-oriented, Industrial Science and Technology; to use for Prudential, the quality of establishing themselves; to open up the courage to strive for progress; the pursuit of excellence, into the future" under the guidance of continuous innovation and development to forge ahead in long-term practice of the formation of a complete set of The quality system and is equipped with an installation of the maintenance of after-sales service team. Radiation sales outlets in major cities nationwide, product marketing provinces, municipalities and autonomous regions, and exports in countriessuch as South-East Asia. And first-class products, first-class service to win customers at home and abroad trust and praise. The Company take "everything for the customer satisfied" as the purpose, advance with the times, in the service of humanity home.

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产品概述

GW型管道排污泵是在引进国外先进技术的基础上，结合国内水泵的使用特点而研制成功的新一代泵类产品，水力模型等同采用WQ型排污泵。具有节能效果显著、防缠绕、无堵塞等特点。在排送固体颗粒和长纤维垃圾方面，具有独特效果。

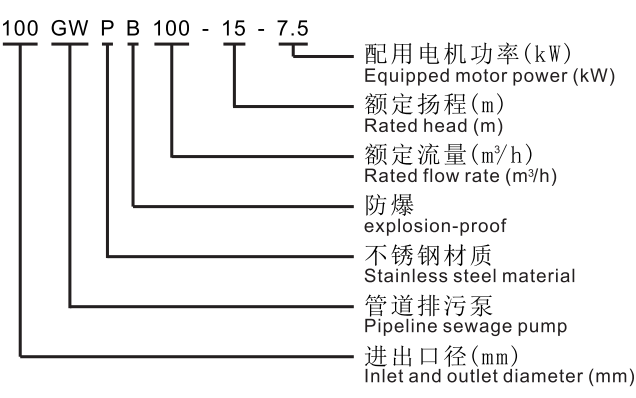
该系列泵采用独特叶轮结构和新型机械密封，能有效地输送含有固体物和长纤维，叶轮与传统叶轮相比，该泵叶轮来用单流道或双流道形式，它类似于一截面大小相同的弯管，具有非常好的过流性，配以合理的蜗室，使得该泵具有效率高、叶轮经平衡试验，使泵在运行中无振动。

该泵水力性能先进、成熟，产品经测试各项性能指标均达到有关标准规定，产品投放市场后以其独特的功效，可靠的性能，稳定的质量受到广大用户的欢迎和好评。

产品适用场合

1. 工厂商业严重污染废水的排放。
2. 城市污水处理厂排水系统。
3. 住宅区的污水排水站。
4. 人防系统排水站。
5. 医院、宾馆的污水排放。
6. 市政工程、建筑工地。
7. 勘探、矿山配套附机。
8. 农村沼气池农田灌溉。
9. 自来水厂的给水装置。

型号意义 Type designation



Overview

The GW type pipeline sewage pump is a new generation of pump products developed based on the introduction of advanced foreign technology and the characteristics of domestic water pumps. The hydraulic model is equivalent to the WQ type sewage pump. It has significant energy-saving effects, anti winding, and non clogging characteristics. It has a unique effect in discharging solid particles and long fiber waste.

This series of pumps adopts a unique impeller structure and a new type of mechanical seal, which can effectively transport solids and long fibers. Compared with traditional impellers, the impeller of this pump adopts a single or double channel form, which is similar to a curved pipe with the same cross-sectional size and has excellent flowability. Equipped with a reasonable volute chamber, the pump has high efficiency, and the impeller has undergone balance tests, making the pump vibration free during operation.

The hydraulic performance of this pump is advanced and mature. After testing, all performance indicators of the product meet relevant standards and regulations. After being put on the market, the product has been welcomed and praised by a large number of users for its unique efficacy, reliable performance, and stable quality.

Applicable occasions of the product

1. The discharge of severely polluted wastewater from factories and businesses.
2. Urban sewage treatment plant drainage system.
3. Sewage drainage stations in residential areas.
4. Civil air defense system drainage station.
5. Sewage discharge from hospitals and hotels.
6. Municipal engineering and construction sites.
7. Auxiliary equipment for exploration and mining.
8. Rural biogas digesters for farmland irrigation.
9. The water supply device of the water plant.

GW系列管道式排污泵

GW series pipeline sewage pump

排污泵系列 Sewage pump series

产品特点

1. 泵为立式单吸单级离心排污泵，进出口中心线在同一水平线上，进出口法兰相同，故安装拆卸十分方便，占地面积小，可像阀门一样安装在管路的任何位置上。
2. 泵与电机直联同轴，属机电一体化产品，结构紧凑，性能稳定。
3. 来用大流道抗堵塞水力部件设计，大大提高污物通过能力，能有效地通过泵口径的5倍纤维物质和直径为泵口径约50%的固体颗粒。
4. 设计合理，配套电机合理，效率高，节能效果显著。
5. 机械密封采用硬质耐磨碳化钨，具有耐用、耐磨等特点，可以使泵安全连续运行8000小时以上。
6. 水力性能先进，整机效率高，运转噪音低。
7. 在电机风吐端加上防护罩，整机可置于室外工作，无需机房，可节省大量基建费用。
8. 在使用扬程范围内使用，保证电机无过载。

泵的使用条件

1. 介质温度不超过60℃，重度为1.0-1.3Kg/dm³，PH值在5-9范围内。
2. 泵和电机为整体机构，所以要求泵工作周围温度不得超过40℃，海拔高度不超过1000m相对湿度不超过95%。
3. 一般情况下，泵必须在使用扬程范围内使用，保证电机不超载，如需在全扬程范围范围使用，应在订货时另行注明，以便厂家制造。
4. 在运行过程泵电机电流不得超过电机的额定电流。

Product Features

1. The pump is a vertical single suction single stage centrifugal sewage pump, with the inlet and outlet center lines on the same horizontal line and the same inlet and outlet flanges. Therefore, installation and disassembly are very convenient, with a small footprint, and can be installed at any position in the pipeline like a valve.
2. The pump and motor are directly connected and coaxial, belonging to the electromechanical integration product, with a compact structure and stable performance.
3. Designed with large flow channel anti clogging hydraulic components, it greatly improves the ability of pollutants to pass through, effectively passing through 5 times the fiber material of the pump diameter and solid particles with a diameter of about 50% of the pump diameter.
4. Reasonable design, reasonable matching motor, high efficiency, and significant energy-saving effect.
5. The mechanical seal adopts hard wear-resistant tungsten carbide, which is durable and wear-resistant, and can ensure safe and continuous operation of the pump for over 8000 hours.
6. Advanced hydraulic performance, high overall efficiency, and low operating noise.
7. By adding protective devices at the motor exhaust end, the entire machine can be placed for outdoor work without the need for a computer room, which can save a lot of infrastructure costs.
8. Use within the range of operating head to ensure that the motor is not overloaded.

Service conditions of the pump

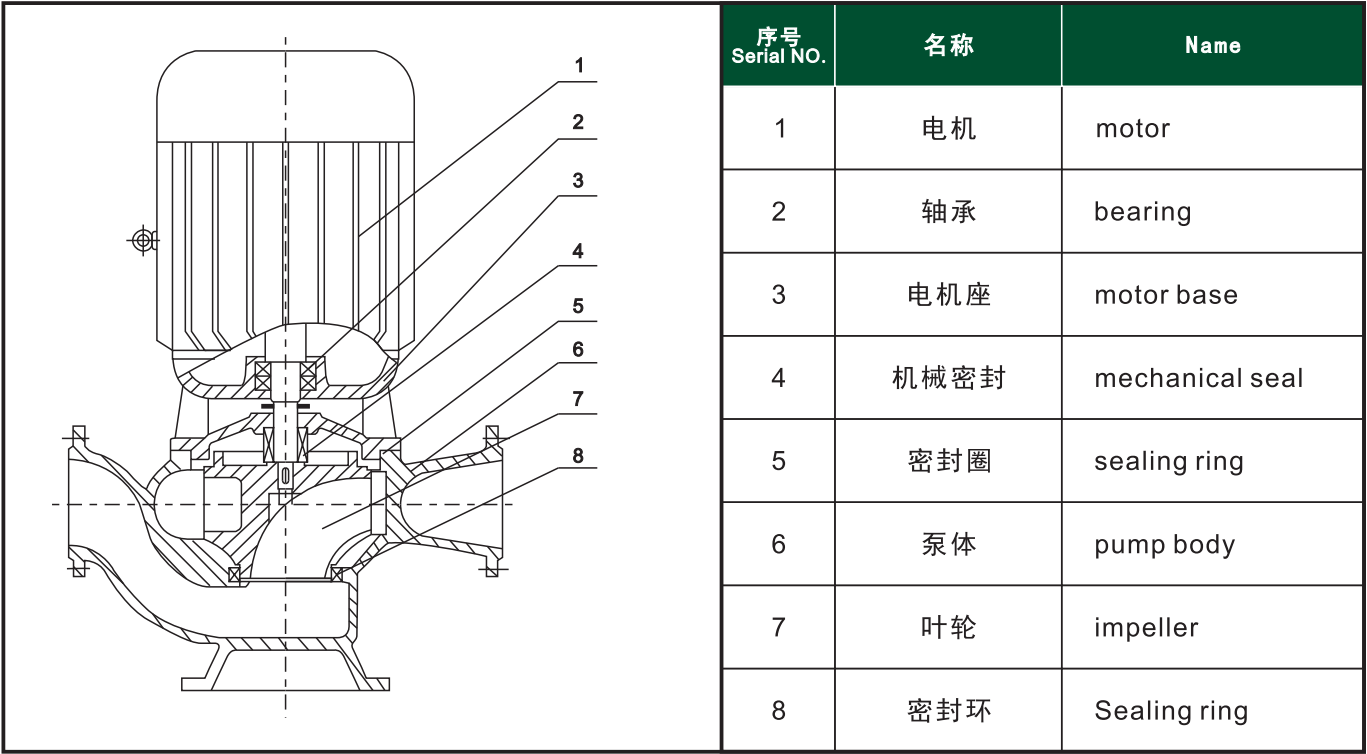
1. The medium temperature shall not exceed 60℃, and the density shall be 1.0-1.3Kg/dm³, The pH value is within the range of 5-9.
2. The pump and motor are integral mechanisms, so it is required that the temperature around the pump should not exceed 40℃, and the relative humidity should not exceed 95% at an altitude of no more than 1000m.
3. In general, the pump must be used within the range of operating head to ensure that the motor is not overloaded. If it needs to be used within the full head range, it should be noted separately when ordering, so that the manufacturer can manufacture it.
4. During operation, the pump motor current should not exceed the rated current of the motor.

结构说明

GW型系列无堵塞单级管道排污泵系进出口在同
一水本线上，且规格相同，立式结构，占地面积小，
电机与泵同轴，设有安装底盘，便于安装稳固，叶
轮采用单(双)流道，具有良好的通过性能。

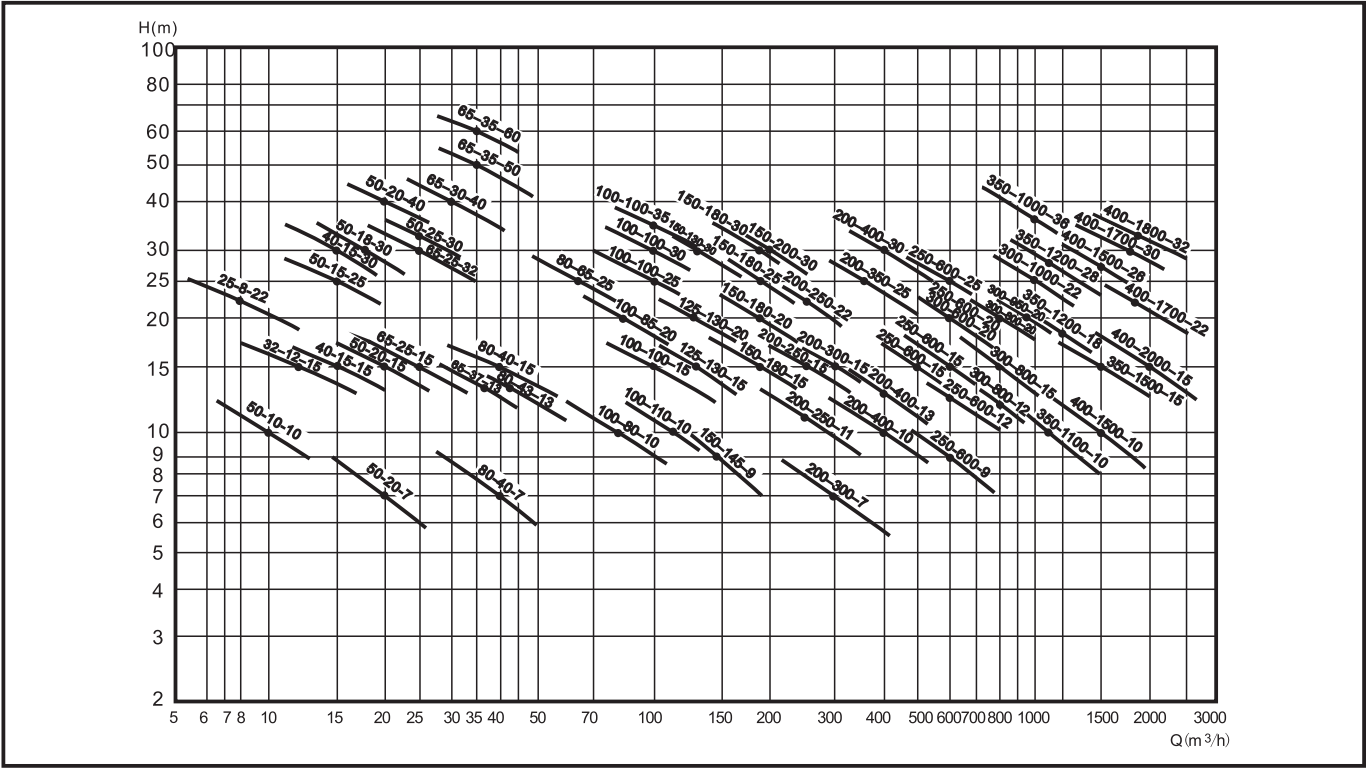
Structure description

The GW series non clogging single stage pipeline sewage
pump system has the same inlet and outlet on the same water
main line, and the specifications are the same. It is a vertical
structure with a small floor area, and the motor and pump are
coaxial. It is equipped with an installation chassis for easy
and stable installation. The impeller adopts a single (double)
flow channel, which has good passing performance.



型谱图

Type spectrogram



GW系列管道式排污泵

GW series pipeline sewage pump

排污泵系列 Sewage pump series

性能参数表及尺寸表

Performance parameter table and size table

序号 Serial NO.	型号 Type	流量 Capacity	扬程 Head	转速 Speed	功率 Power	效率 Efficiency	口径 Diameter	进出口法兰尺寸 Inlet/outlet flange size			安装尺寸 Installation dimensions			外形尺寸 Contour dimensions		
		m³/h	m	r/min	kW	%	mm	D	D1	N-d1	C×E	C1×E1	4-φd2	A	L	H
1	32GW8-12-1.1	8	12	2900	1.1	48	32	120	90	4-φ14	100×100	72×72	4-φ12	70	235	400
2	32GW8-22-1.5	8	22	2900	1.5	48		120	90	4-φ14	100×100	72×72	4-φ12	70	235	400
3	40GW10-10-0.75	10	10	2900	0.75	54	40	130	100	4-φ14	φ190	φ170	4-φ12	120	310	500
4	40GW12-15-1.5	12	15	2900	1.5	48		130	100	4-φ14						
5	40GW15-30-2.2	15	30	2900	2.2	51		130	100	4-φ14						
6	50GW20-7-0.75	20	7	2900	0.75	62	50	140	110	4-φ14	φ160	φ130	4-φ12	122	310	470
7	50GW10-10-0.75	10	10	2900	0.75	54										
8	50GW20-15-1.5	20	15	2900	1.5	51										
9	50GW15-30-2.2	15	30	2900	2.2	51					φ200	φ170	4-φ14	127	320	593
10	50GW42-9-2.2	42	9	2900	2.2	52										
11	50GW17-25-3	17	25	2900	3	53										
12	50GW40-15-4	40	15	2900	4	54	65	160	130	4-φ14	φ200	φ175	4-φ14	127	330	593
13	50GW25-32-5.5	25	32	2900	5.5	49										
14	65GW25-15-2.2	25	15	2900	2.2	52					φ200	φ170	4-φ12	130	330	600
15	65GW37-13-3	37	13	2900	3	60										
16	65GW25-30-4	25	30	2900	4	58										
17	65GW25-35-5.5	25	35	2900	5.5	49					φ200	φ170	4-φ12	150	480	900
18	65GW35-50-11	35	50	2900	11	59										
19	65GW35-60-15	35	60	2900	15	58	80	185	150	4-φ14	φ220	φ190	4-φ14	160	400	525
20	80GW40-7-2.2	40	7	1450	2.2	50										580
21	80GW43-13-3	43	13	2900	3	61										640
22	80GW40-15-4	40	15	2900	4	57					φ220	φ190	4-φ14	175	470	640
23	80GW50-20-5.5	50	20	2900	5.5	60										
24	80GW65-25-7.5	65	25	2900	7.5	56										
25	80GW80-15-7.5	80	15	2900	7.5	45	100	205	170	4-φ18	280×220	220×160	4-φ18	185	570	800
26	100GW85-10-4	85	10	1450	4	62										
27	100GW65-15-5.5	65	15	1450	5.5	59					280×220	220×160	4-φ18	195	655	960
28	100GW100-15-7.5	100	15	1450	7.5	70										
29	100GW85-20-7.5	85	20	1450	7.5	71										
30	100GW100-25-11	100	25	1450	11	61	150	260	225	8-φ18	300×300	250×250	4-φ24	265	680	1030
31	100GW100-35-18.5	100	35	1450	18.5	67										
32	150GW145-9-7.5	145	9	1450	7.5	63										
33	150GW200-10-15	200	10	1450	15	64										
34	150GW150-26-18.5	150	26	1450	18.5	72										
35	150GW180-20-18.5	180	20	1450	18.5	74										
36	150GW180-35-22	180	35	1450	22	69										
37	150GW150-35-37	150	35	1450	37	63										
38	150GW200-30-37	200	30	1450	37	65	200	315	280	8-φ8	360×300	295×295	4-φ24	320	790	1100
39	200GW300-7-11	300	7	980	11	75										
40	200GW250-11-15	250	11	1450	15	72										
41	200GW250-15-18.5	250	15	1450	18.5	72										
42	200GW400-10-22	400	10	1450	22	75	200	315	280	8-φ8	360×300	295×295	4-φ24	320	790	1100

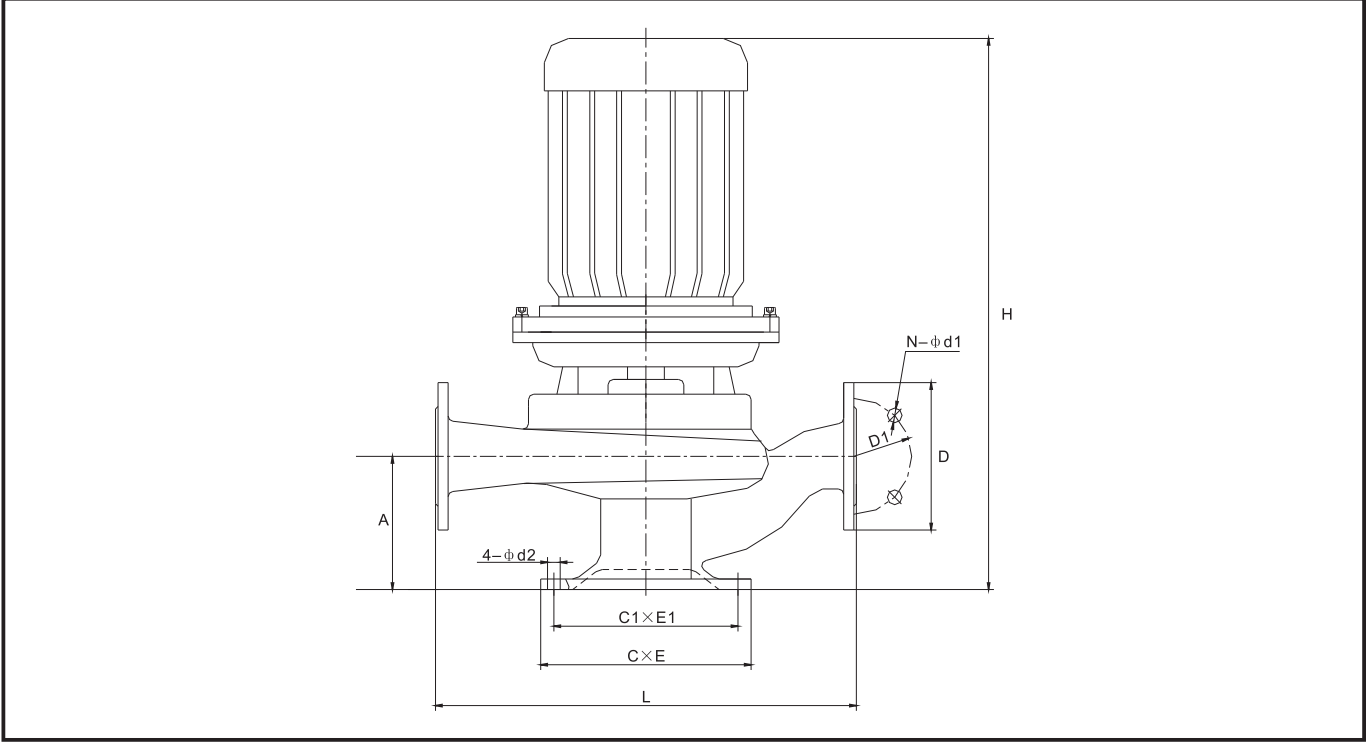
性能参数表及尺寸表

Performance parameter table and size table

序号 Serial NO.	型号 Type	流量 Capacity	扬程 Head	转速 Speed	功率 Power	效率 Efficiency	口径 Diameter	进出口法兰尺寸 Inlet/outlet flange size				安装尺寸 Installation dimensions			外形尺寸 Contour dimensions		
		m³/h	m	r/min	kW	%	mm	D	D1	N-d1		C×E	C1×E1	4-φd2	A	L	H
43	200GW300-15-22	300	15	1450	22	71	200	315	280	8-φ18		360×300	300×230	4-φ24	300	820	1100
44	200GW400-13-30	400	13	1450	30	76											
45	200GW250-22-30	250	22	1450	30	71											
46	200GW300-25-37	300	25	1450	37	73											
47	200GW250-22-30	250	22	1450	30	70						300×300	300×230	4-φ23	320	780	1400
48	200GW300-25-37	300	25	1450	37	73											
49	200GW400-20-45	400	20	1450	45	71											
50	200GW250-35-45	250	35	1450	45	69											
51	200GW400-30-55	400	30	1450	55	72	250	370	335	12-φ18		400×350	330×300	4-φ23	350	950	1500
52	200GW200-60-75	200	60	1450	75	65											
53	250GW600-9-30	600	9	980	30	78											
54	250GW600-12-37	600	12	1450	37	76											
55	250GW600-15-45	600	15	1450	45	73											
56	250GW600-20-55	600	20	1450	55	73											
57	250GW600-25-75	600	25	1450	75	71											
58	300GW800-12-45	800	12	980	45	74											
59	300GW480-15-45	480	15	1450	45	66	300	435	395	12-φ23		505×455	430×380	4-φ23	465	1135	1700
60	300GW400-20-45	400	20	1450	45	64											
61	300GW600-20-55	600	20	1450	55	73											
62	300GW800-20-75	800	20	1450	75	75											
63	300GW950-20-90	950	20	1450	90	76											
64	300GW950-24-110	950	24	1450	110	76											

外形尺寸图

Outline Dimensional Drawing



泵的安装系统

1. 泵和管路应有各自支承件，不得将管路重量

作用于泵上。

2. 排出管路如装逆止阀应装在闸阀的外面。

3. 为了维修方便和使用安全，在泵的进出口管

路上各安装一只调节阀及在泵出口附近安装一只压

力表以保证泵在额定扬程和流量范围内运行，确保

泵的正常运行，提高水泵的使用寿命。

4. 安装泵时必须拧紧地脚螺栓，以免启动时振

动对泵性能的影响。

5. 当输送高温液体时为了不使泵承受管路的热

变形，泵座的底脚螺栓不应固定，当管路系统在热

胀冷缩时，使泵能与管路一起移动。

6. 泵进出口连接法兰按4216-84标准设计，管路

法兰应配以相同规定。

7. 泵安装后拨动泵轴，叶轮应无磨擦声或卡死

现象，否则应将泵拆开检查维修。

8. 安装前应检查水泵和电机的紧固情况和有无

损伤。

Pump installation system

1. The pump and pipeline should have their own

supporting parts, and the weight of the pipeline should not

be applied to the pump.

2. If a check valve is installed in the discharge pipeline,

it should be installed outside the gate valve.

3. For the convenience of maintenance and safety of use,

a regulating valve is installed on the inlet and outlet pipelines

of the pump, and a pressure gauge is installed near the pump

outlet to ensure that the pump operates within the rated head

and flow range, ensure the normal operation of the pump,

and improve the service life of the pump.

4. When installing the pump, the foundation bolts must

be tightened to avoid the impact of vibration on the pump

performance during start-up.

5 In order not to make the pump bear the thermal

deformation of the pipeline when delivering high-temperature

liquid, the foot bolts of the pump base should not be fixed.

When the Plumbing is in Thermal expansion, the pump can

move with the pipeline.

6. The inlet and outlet connection flanges of the pump

should be designed according to the 4216-84 standard, and

the pipeline flanges should be equipped with the same

regulations.

7. After installing the pump, move the pump shaft and

ensure that there is no friction or jamming on the impeller.

Otherwise, the pump should be disassembled for inspection

and maintenance.

8. Before installation, check the tightness and damage

of the water pump and motor.

使用方法及注意事项

1. 泵使用前应仔细检查紧固件是否松动或脱落，
- 泵在运输、存放、安装过程中有无变形或损坏。
2. 泵启动后，旋转方向从进水口看为逆时针转动，如果电泵反转，只需将电缆线中的任何二相线对调一下接线位置即可。
3. 不得将电泵长期处于低扬程状态下运行(一般情况下使用扬程不得低于额定扬程的60%)，最好能控制在建议使用扬程范围以内，以防水泵因超载而烧坏电机。
4. 泵不应在汽蚀工况下运行，以提高泵的使用寿命，严禁水泵缺液运行，否则极易烧损机械密封件。
5. 如泵的零件为铸铁制成时，在冬季露天安装时，应注意防止击破，温度特别低时，应加以保温。
- 维护保养
1. 电泵应有专人管理与使用，并定期检查绝缘电阻是否正常。
2. 叶轮和泵体之间的密封环具有密封功能，如密封环损坏将直接影响泵的性能，必须及时更换。
3. 水泵如长时间不用时，应将水泵的液体放干，以便热胀冷缩损坏水泵内部件。

Usage and precautions

1. Before using the pump, carefully check whether the fasteners are loose or detached, and whether the pump is deformed or damaged during transportation, storage, and installation.
2. After the pump starts, the rotation direction is counterclockwise from the water inlet. If the electric pump rotates in reverse, simply adjust the wiring position of any two phase wires in the cable.
3. It is not allowed to operate the electric pump in a low head state for a long time (usually the head used should not be less than 60% of the rated head), and it is best to control it within the recommended head range to prevent the pump from burning out the motor due to overload.
4. The pump should not operate under cavitation conditions to improve its service life. It is strictly prohibited to run the pump without liquid, otherwise it is very easy to burn the mechanical seals.
5. If the parts of the pump are made of cast iron, attention should be paid to preventing damage during outdoor installation in winter. When the temperature is particularly low, insulation should be provided.

Maintenance

1. The electric pump shall be managed and used by a specially assigned person, and the insulation resistance shall be checked regularly to see if it is normal.
2. The sealing ring between the impeller and the pump body has a sealing function. If the sealing ring is damaged, it will directly affect the performance of the pump and must be replaced in a timely manner.
3. If the water pump is not used for a long time, the liquid of the water pump should be drained so that Thermal expansion can damage the internal parts of the water pump.

GW系列管道式排污泵

GW series pipeline sewage pump

排污泵系列 Sewage pump series

故障分析及排除方法

Troubleshooting and Remedy

故障现象 Symptom	原因分析 Cause	排除方法 Remedy
流量不足 或不出水 Insufficient flow or no water output	1. 叶轮旋转错误 1. Impeller rotation error 2. 阀门是否打开和完好 2. Is the valve open and intact 3. 管道叶轮被堵 3. The pipeline impeller is blocked 4. 扬程过高 4. The head is too high 5. 抽送介质密度较大 5. The density of the pumped medium is relatively high 6. 密封圈损坏 6. Damaged sealing ring	1. 调整叶轮旋转方向 1. Adjust the rotation direction of the impeller 2. 检查、维修、排除 2. Inspection, maintenance, and troubleshooting 3. 清理杂物 3. Clean up debris 4. 改泵或降低扬程 4. Change the pump or reduce the head 5. 用水冲稀降低浓度 5. Dilute with water to reduce concentration 6. 更换 6. Replacement
运行不稳定 Unstable operation	1. 叶轮不平衡 1. Unbalanced impeller 2. 轴承损坏 2. Bearing damaged	1. 送制造厂调换或校正 1. Replace or adjust 2. 更换 2. Replace
泵不能启动 Fail to start	1. 缺相 1. Phase loss 2. 叶轮卡住 2. Impeller is stuck 3. 绕组接头或电缆断路 3. Open circuit of winding connector or cable 4. 定子绕组烧坏 4. The stator winding is burnt out 5. 电器控制发生故障 5. Electrical control failure	1. 检查线路进行修复 1. Check the circuit for repair 2. 排除杂物 2. Remove sundries 3. 用欧姆表检查修复 3. Check and repair with ohmmeter 4. 修理、更换绕组 4. Repair and replace winding 5. 修理或调换 5. Repair or replace
电流过大 Over current	1. 工作电压低 1. Low working voltage 2. 管道、叶轮被堵 2. The pipe and impeller are blocked 3. 介质密度和粘度过高 3. Medium density and viscosity are too high 4. 流量过大 4. Excessive flow 5. 产生机械摩擦 5. Mechanical friction	1. 调速工作电压 1. Speed regulation working voltage 2. 清理管道、叶轮内堵物 2. Clean the blockage inside the pipe and impeller 3. 改变密度和粘度 3. Change density and viscosity 4. 减少流量、提高扬程 4. Reduce flow and improve lift 5. 进行维修调节 5. Carry out maintenance and adjustment
压力不足 Insufficient pressure	1. 机械密封损坏或泄漏 1. Mechanical seal damaged or leaking 2. 电缆线破损 2. Cable damage 3. 密封环磨损或损坏 3. The sealing ring is worn or damaged	1. 更换 1. Replacement 2. 更换 2. Replacement 3. 更换 3. Replacement