



WQC系列潜水排污泵

WQC SERIES SUBMERSIBLE SEWAGE PUMP



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概 述 Outline

我公司最新推出的22kw及以下WQC系列潜水排污泵，是将国内同类WQ系列产品经过筛选、改进，克服其存在的不足精心设计开发而成。该系列泵的叶轮采用双流道、双叶片形式，加上独特的结构设计，使之更加可靠安全、轻便实用。整个系列产品，型谱合理，选型方便，配有潜水排污泵专用的电控柜来实现安全保护和自动化控制。

产品特点 Characteristic

- 1、独特的双流道、双叶片叶轮，运行平稳，过流能力好，安全无堵塞。
- 2、泵与电机同轴直接传动，属机电一体化产品，结构紧凑，性能稳定，噪声低，更加轻便适用。
- 3、采用潜水泵专用的两道单端面机械密封，轴封更可靠，寿命更长。
- 4、电机内设有油水探头等多种保护装置，保证电机更加安全的运转。
- 5、自冲搅匀功能。
此功能以合同约定为准。泵体下部设置多个反冲洗孔，当泵运行时，泵体内一部分高压水通过反冲洗孔以发散状冲向污水池底部，其强大冲力将较大范围的沉积物冲起搅匀，被泵吸入后排走。

WQCseries submersible sewage pump below 22 KW latest made in this Co. is meticulously designed and developed by way of screening among the domestic same WQ series products, improving and overcoming the deficiencies and the impeller used therein is double vane impeller and double runner impellerand,due to its unique structural design, can be used more reliably and safely. The products of the complete series are reasonable in the spectrum and easy to select the model and use an electric control cabinet special for submersible sewage pumps for safety protection and automatic control.

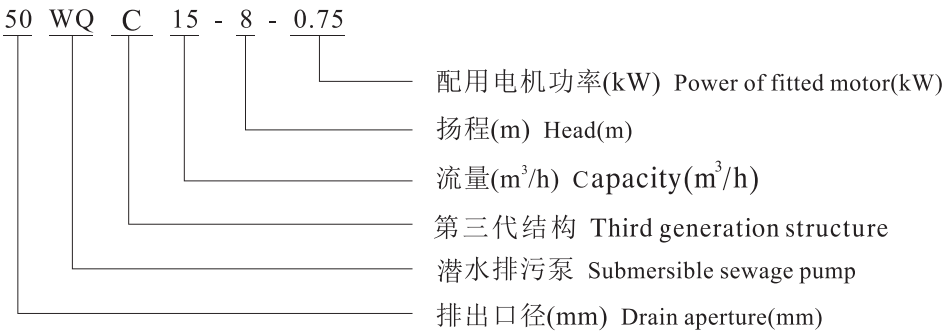
1. Unique double vane impeller and double runner impeller leaves stadle running, a good flow-passing capacity and safety without block-up.
2. Both pump and motor are coaxial and directly driven. As an electromechanically integrated product, it is compact in structure, stable in performance and low in noise, more portable and applicable.
3. Two ways of the single end-face mechanical seal special for submersible pumps makes the shaft seal more reliable and the duration longer.
4. Inside of the motor there are oil and water probes etc. multiple protectors, offering the motor with a safer movement.
5. Self-washing and mixing function.
This function is subject to the contract. The lower part of the pump body is provided with multiple backwash holes. When the pump is running, part of the high-pressure water in the pump body rushes to the bottom of the sewage tank in a divergent manner through the backwash holes, and its strong impulse washes up and stirs a larger range of sediments and is pumped Drain after inhalation.

产品用途 Purpose

主要用于市政工程、楼宇建筑、工业排污、污水处理等行业场合。排送带固体颗粒及各种短纤维的污水、废水、雨水和城市生活用水。

Mainly applied in municipal engineering, building , Industrial wastewater drainage, wastewater treatment, etc.And also it's applied in handling wastewater r Which has solid, shortfiber, stormwater and other urban domestic water, etc.

型号意义 Model meaning



使用条件 Conditions of use

- 1、介质温度不应超过40℃，介质密度≤1050kg/m³，PH值在5-9范围内。
- 2、运行时泵不得低于最低液位，参见安装尺寸图中的“▽最低液位”。
- 3、额定电压为380V，额定频率为50Hz。在额定电压和额定频率的偏差不大于±5%时，电机才能正常运行。
- 4、通过泵的固体颗粒的最大直径不得大于泵体排出口直径的50%。
- 1.The medium temperature should not be over 40℃, the density1050kg/m,and the PH value within 5-9.
- 2.During running, the pump must not be lower than the lowest liquid level, see " ▽lowest liquid level" .
- 3.Rated voltage 380V, rated frequency 50Hz. The motor can run successfully only under the condition the deviations of both rated voltage and frequency are not over ±5%.
- 4.The maximum diameter of the solid grain going through the pump has not to be larger than 50% of that of the pump outlet.

旋转方向 Rotating direction

从泵体吸入口看，叶轮为逆时针方向旋转。 The impeller rotates CCW as viewed from the suction.

结构说明 Structures description

- 轴 承：
选用优质的滚动轴承。其合理的轴承配置，能够延长泵的寿命。
- 冷 却：
泵的冷却，采用泵抽送介质直接冷却。
- 电 机：
电机为F级绝缘，定子最高工作温度为155℃，有效的密封使电机防护等级为IPX8。
- 机械密封：
选用优质的机械密封，两道单端面机械密封为电机提供双重保护。
- Bearing:
High-quality roll bearing, which, with a reasonable configuration, can extend the duration of the pump.
- Cooling:
Cooling of the pump: direct cooling by means of the pump to pump the medium
- Motor:
Of F class insulation, max. working temperatures 155℃, and of a protective grade IPX8 with the effective seal.
- Mechanical seal:
Use high-quality mechanical seal , two ways of the seal provide the motor with a dual protection.

油 室:

油可润滑并冷却机械密封, 并具有阻止液体渗透至电机的附加安全功能。内留一定量空气可降低油室内压力的积聚升高。

叶 轮:

经过优化设计, 排出纤维和固体能力强, 输送液体使其不产生堵塞。

泵 体:

采用CAD/CAM技术, 使泵提高效率和减少磨损。

轴:

泵与电机同轴

转轴悬伸设计得尽量短, 降低转轴的挠度, 并减少振动, 延长机械密封和轴承的使用寿命, 降低运行噪音。

监控系统:

定子内嵌有三个串联的热控开关。常温时为“常闭”状态, 当定子温度达到115℃时, 开关打开。

油室内装有漏水探头, 用作漏水检测。当泵侧机械密封泄露, 油室内的油水比例达到一定浓度, 油水探头就发出报警信号(指示灯亮)并自动切断电源, 使泵停止工作。

电控柜有对电机缺相进行检测的功能, 以防缺相烧坏电机。

Oil chamber:

Oil can lubricate and cool the mechanical seal and realize the attached function of safety by preventing liquid from penetrating into the motor. The air of a certain amount left inside of the chamber can lower the pressure accumulatively raised.

Impeller:

The optimized design leaves the pump a powerful capacity in fiber and solid drainage and non-blocking in the liquid transportaation

Pumpcasing:

Use of CAD/CAM know-how makes the pump an enhanced efficacy and a reduced wear.

Shaft:

The pump is coaxial with the motor
The as short as possible designed stretched rotating shaft can be reduced with its deflection and vibration, extend the duration of both mechanical seal and bearing and lower the noise at running.

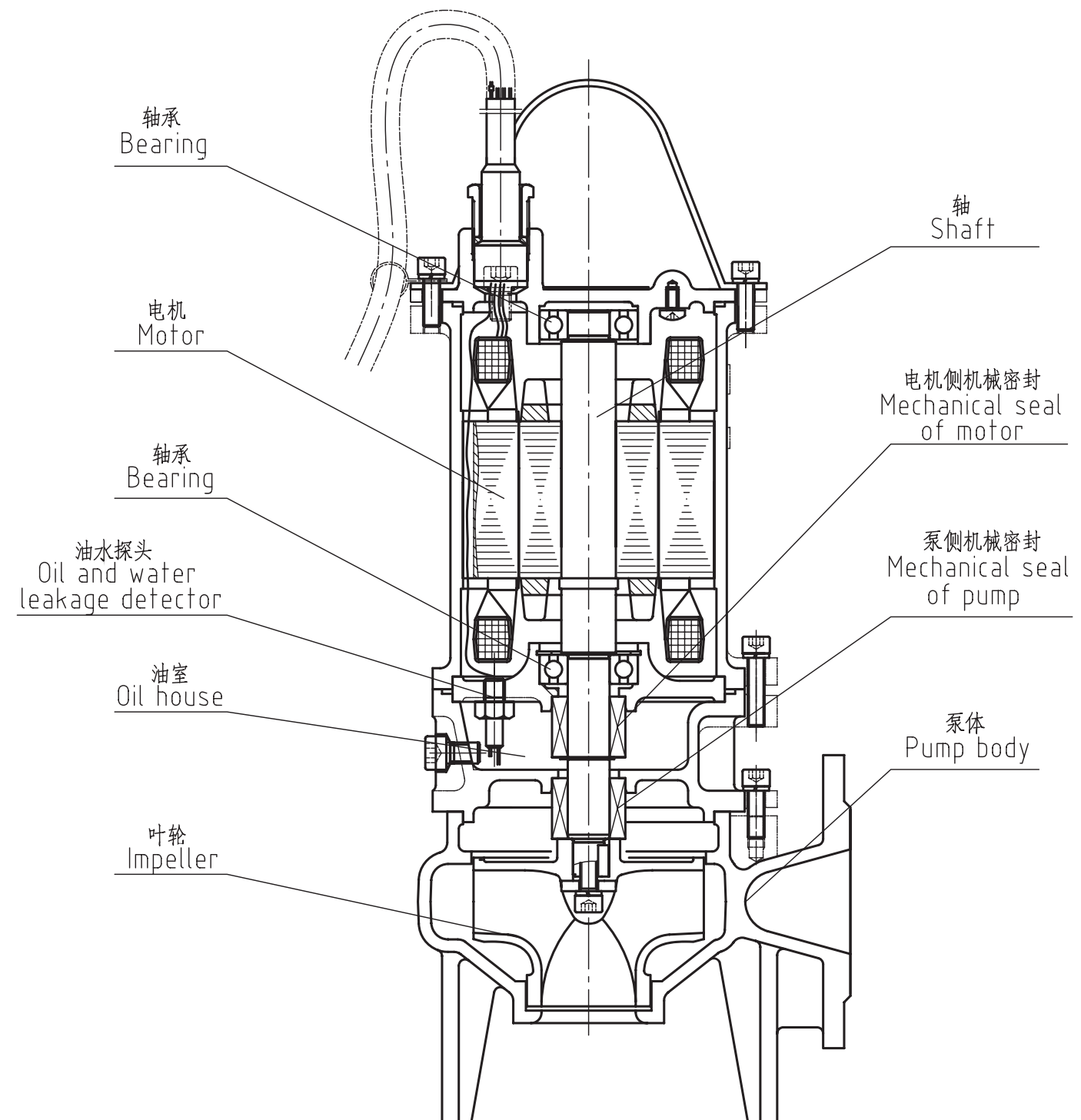
Monitor system:

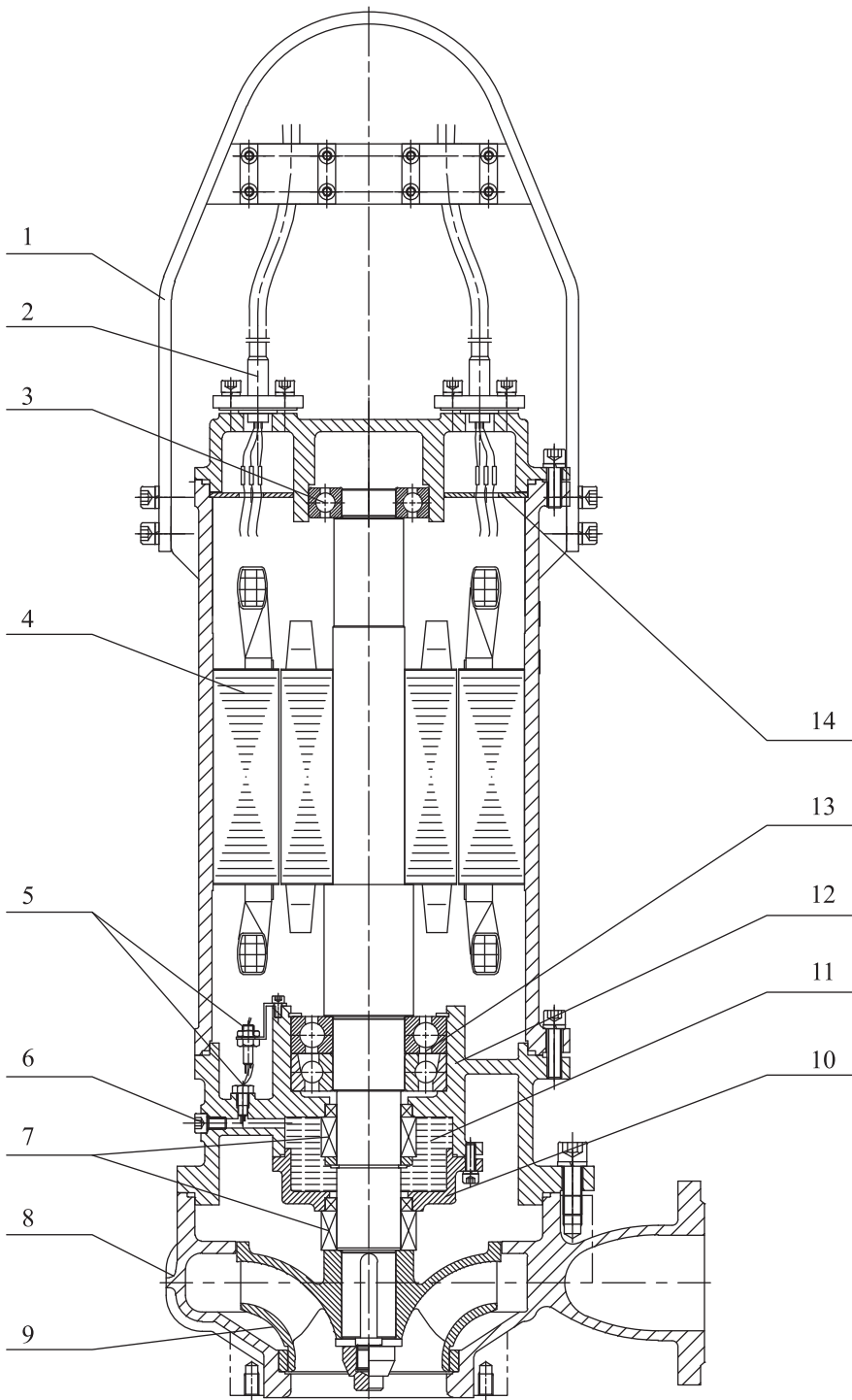
Inside of the stator there are three inlaid series heat-control switches, which are in the state of "N.O." at the normal temperature and opened when the temperature on the stator gets to115°

er-leakage probe is mounted inside the oil chamber to check water leakage and it will give a warning signal(the indicator lights), when the mechanical seal on the pump side leaks and the oil-water ratio in the oil chamder reaches a certain concentration, to automatically cut off the power to stop the work of the pump.

The function to check if the motor lack of phase is available with the electric control cabinet so as to prevent it from burning due any lack of phase.

WQC型结构图 Structure drawing





序号	零件名称
1	提手组件
2	电 缆
3	上轴承
4	电 机
5	油水探头
6	注油口及螺塞
7	机械密封
8	泵 体
9	叶 轮
10	机封座
11	油 室
12	连接座
13	下轴承
14	接线挡板

WQC型泵性能参数Performance

序 号 No.	型 号 Type	排出口径 Outlet diameter (mm)	流量 Capacity		扬 程 Head (m)	转 速 Speed (r/min)	功 率 Power (kW)	效 率 Efficiency (%)	重 量 Weight (Kg)
			(m³/h)	(L/s)					
1	32WQC8-10-0.75	32	6 8 10	1.7 2.2 2.8	12 10 8	2825	0.75	40 42 40	22
2	32WQC8-15-1.1	32	6 8 10	1.7 2.2 2.8	17 15 12	2825	1.1	40 42 40	23
3	50WQC15-8-0.75	50	10 15 20	2.8 4.2 5.6	9 8 6	2825	0.75	52 60 58	23
4	50WQC15-12-1.1	50	10 15 20	2.8 4.2 5.6	13 12 10	2825	1.1	47 55 54	24
5	50WQC15-16-1.5	50	10 15 20	2.8 4.2 5.6	18 16 15	2840	1.5	52 60 63	27
6	50WQC15-22-2.2	50	10 15 20	2.8 4.2 5.6	23 22 20	2840	2.2	40 51 55	29
7	50WQC15-30-3	50	10 15 20	2.8 4.2 5.6	31 30 28	2880	3	45 52 56	41
8	50WQC25-25-3	50	20 25 30	5.6 6.9 8.3	26 25 21	2880	3	55 59 62	41
9	50WQC30-20-4	50	20 30 40	5.6 8.3 11.1	25 20 16	2890	4	55 62 59	45
10	50WQC25-32-5.5	50	20 25 40	5.6 6.9 11.1	33 32 25	2900	5.5	45 51 55	66
11	50WQC25-36-5.5	50	20 25 40	5.6 6.9 11.1	38 36 30	2900	5.5	47 52 62	67
12	65WQC30-10-1.5	65	20 30 45	5.6 8.3 12.5	12 10 6	2840	1.5	55 65 55	29
13	65WQC30-15-2.2	65	20 30 45	5.6 8.3 12.5	16 15 10	2840	2.2	54 62 66	30
14	65WQC35-15-3	65	25 35 45	6.9 9.7 12.5	17 15 11	2880	3	61 66 65	40
15	65WQC30-22-4	65	20 30 45	5.6 8.3 12.5	26 22 17	2890	4	57 69 66	46
16	65WQC30-30-5.5	65	20 30 45	5.6 8.3 12.5	32 30 25	2900	5.5	46 53 61	67
17	65WQC30-35-7.5	65	20 30 45	5.6 8.3 12.5	37 35 32	2900	7.5	47 55 61	70
18	80WQC50-8-2.2	80	40 50 75	11.1 13.9 20.8	10 8 4	2840	2.2	54 65 50	35
19	80WQC50-10-3	80	40 50 75	11.1 13.9 20.8	12 10 6	2880	3	63 64 50	36
20	80WQC50-15-4	80	40 50 75	11.1 13.9 20.8	18 15 10	2890	4	61 67 65	51
21	80WQC50-20-5.5	80	40 50 75	11.1 13.9 20.8	22 20 14	2900	5.5	60 61 62	71
22	80WQC50-25-5.5	80	40 50 75	11.1 13.9 20.8	26 25 18	2900	5.5	63 69 72	72
23	100WQC80-7-3	100	65 80 100	18.1 22.2 27.8	9 7 4	2880	3	65 60 50	52
24	100WQC80-10-4	100	65 80 100	18.1 22.2 27.8	14 10 5	2890	4	65 60 50	53
25	100WQC80-13-5.5	100	65 80 100	18.1 22.2 27.8	16 13 8	2900	5.5	67 64 52	74
26	100WQC80-18-7.5	100	65 80 100	18.1 22.2 27.8	20 18 12	2900	7.5	60 59 49	76
27	150WQC150-7-5.5	150	100 150 200	27.8 41.7 55.6	10 7 3	2900	5.5	72 74 60	82
28	150WQC150-10-7.5	150	100 150 200	27.8 41.7 55.6	15 10 5	2900	7.5	73 75 60	85

WQC型泵性能参数Performance

序号 No.	型号 Type	排出口径 Outlet diameter (mm)	流量 Capacity		扬程 Head (m)	转速 Speed (r/min)	功率 Power (kW)	效率 Efficiency (%)	重量 Weight (Kg)
			(m³/h)	(L/s)					
29	65WQC40-40-11	65	30 40 50	8.3 11.1 13.9	42 40 38	2900	11	42 43.6 50	125
30	65WQC50-46-15	65	40 50 60	11.1 13.9 16.7	48 46 44	2900	15	47 55.0 60	135
31	80WQC70-30-11	80	58 70 84	16.1 19.4 23.3	32 30 28	2900	11	58 64.5 68.0	125
32	80WQC80-34-15	80	64 80 100	17.8 22.2 27.8	36 34 32	2900	15	60.0 64.0 68.0	135
33	80WQC70-48-18.5	80	58 70 84	16.1 19.4 23.3	51 48 46	2900	18.5	50.0 55.5 60.0	185
34	80WQC80-53-22	80	64 80 100	17.8 22.2 27.8	56 53 47	2900	22	57.0 58.5 60.0	200
35	100WQC120-31-18.5	100	90 120 145	25.0 33.3 40.3	36 31 28.5	2900	18.5	60.0 63.6 65.0	220
36	100WQC130-33-22	100	105 130 180	29.2 36.1 50.0	37.5 33 25.5	2900	22	60.0 64.0 63.4	235
37	150WQC160-15-11	150	115 160 220	31.9 44.4 61.1	17.5 15 12.8	1470	11	63.3 72.0 72.0	225
38	150WQC200-16-15	150	150 200 260	41.7 55.6 72.2	18 16 13	1470	15	70.8 75.8 74.0	240
39	200WQC280-10-11	200	220 280 340	61.1 77.8 94.4	11 10 7.5	1470	11	68.8 71.0 65.3	250
40	200WQC300-13-15	200	230 300 400	63.9 83.3 111.1	14.6 13 9.3	1470	15	67.0 77.9 70.3	275
41	200WQC300-16-18.5	200	230 300 400	63.9 83.3 111.1	18.5 16 12	1470	18.5	78.0 83.0 75.0	295
42	200WQC300-18-22	200	230 300 400	63.9 83.3 111.1	19 18 13.3	1470	22	78.0 84.7 81.0	305
43	250WQC370-8-11	250	300 370 410	83.3 102.8 113.9	10 8 7	1470	11	74.0 73.3 74.7	290
44	250WQC400-10-15	250	300 400 500	83.3 111.1 138.9	12 10 6.5	1470	15	70.0 80.4 72.0	310

WQC型泵安装方式Installation method

1、自动耦合式安装

泵沿导杆放下,自动连接至排出管道系统。安装建筑费用极少, 维修费用降低。

2、移动式硬管安装

泵由其底座支承, 硬管接头与管路系统连接。

3、移动式软管安装

泵由其底座支承, 软管接头与出水胶管相接, 多用途, 易于安装, 水泵可轻易地从一个地方移到另一个地方。

4、固定湿式安装

泵由其底座支承, 底座固定于池底。

1.Auto-coupled installation

The pump is placed down along with the guide rod and automatically connected to the drainage pipeline system. Less cost for mounting and lowering the cost for repair.

2.Movable Hard Pipe Installtion

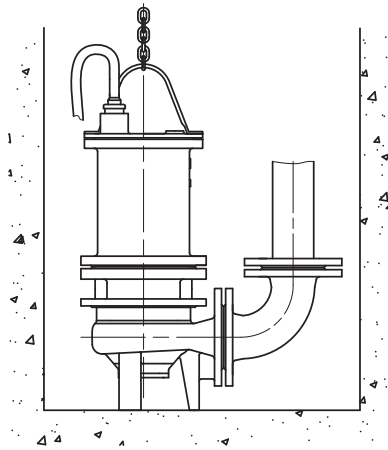
The pump is supported by its foundation, the hard pipe joint is connected to the pipeline system.

3.Movable Soft Pipe Installation

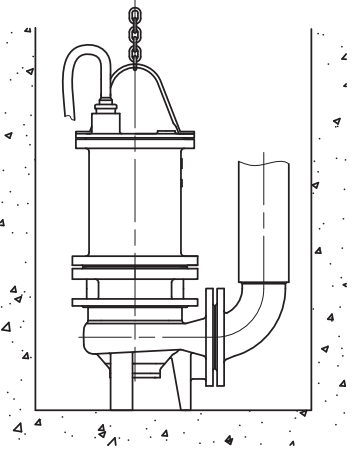
The pump is supported by its foundation, the soft pipe joint is connected to the outlet rubber pipe, of multiple purposes, easy to be mounted, the pump can be easily moved from one place to another.

4.Fixed Wet Installation

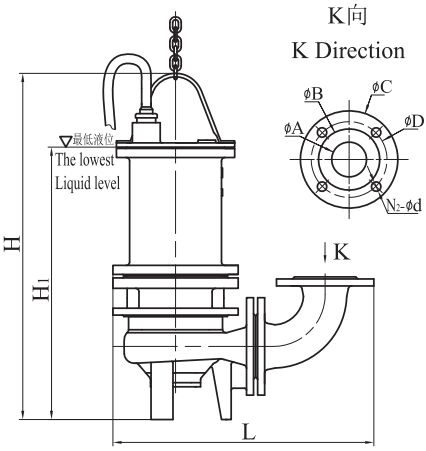
The pump is supported by its foundation,and fixed on the bottom ground of the pool.



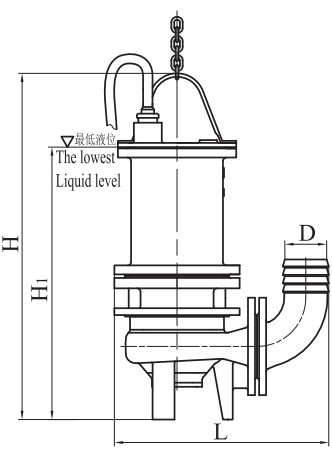
移动式硬管安装 (0.75~7.5kW)
Movable Hard Pipe Installation (0.75~7.5kW)



移动式软管安装 (0.75~7.5kW)
Movable Soft Pipe Installation (0.75~7.5kW)

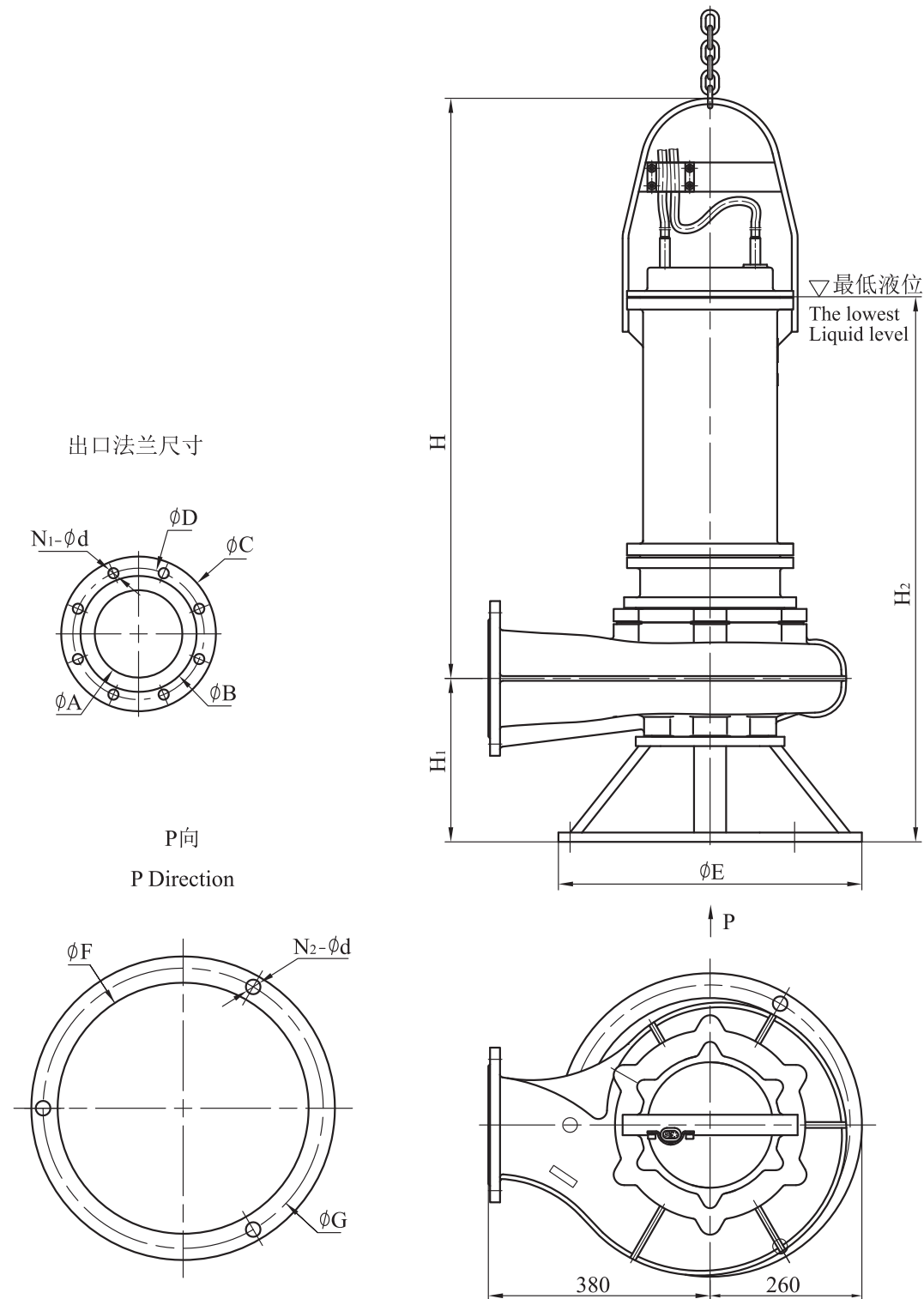


硬管联接尺寸 (0.75~7.5kW)
Hard pipe connectoin dimension(0.75~7.5kW)



软管联接尺寸 (0.75~7.5kW)
Soft pipe connectoin dimension(0.75~7.5kW)

WQC型泵安装尺寸表Installation dimension table



固定湿式安装尺寸 (11~22kW)
Fixed wet installation dimension (11~22kW)

序号 No.	型号 Type	硬管联接尺寸 Hard pipe connection dimension								软管联接尺寸 Soft pipe connection dimension			
		ΦA	ΦB	ΦC	ΦD	$N_2-\Phi d$	H	H ₁	L	ΦD	L	H	H ₁
1	32WQC8-10-0.75	32	69	120	90	4- $\Phi 13.5$	469	363	336	32	294	469	363
2	32WQC8-15-1.1	32	69	120	90	4- $\Phi 13.5$	469	363	353	32	311	469	363
3	50WQC15-8-0.75	50	90	140	110	4- $\Phi 13.5$	498	392	359	60	292	498	392
4	50WQC15-12-1.1	50	90	140	110	4- $\Phi 13.5$	498	392	377	60	310	498	392
5	50WQC15-16-1.5	50	90	140	110	4- $\Phi 13.5$	506	400	394	60	327	506	400
6	50WQC15-22-2.2	50	90	140	110	4- $\Phi 13.5$	531	425	399	60	332	531	425
7	50WQC15-30-3	50	90	140	110	4- $\Phi 13.5$	578	461	433	60	366	578	461
8	50WQC25-25-3	50	90	140	110	4- $\Phi 13.5$	578	461	433	60	366	578	461
9	50WQC30-20-4	50	90	140	110	4- $\Phi 13.5$	605	448	433	60	366	605	448
10	50WQC25-32-5.5	50	90	140	110	4- $\Phi 13.5$	614	477	466	60	399	614	477
11	50WQC25-36-5.5	50	90	140	110	4- $\Phi 13.5$	614	477	491	60	424	614	477
12	65WQC30-10-1.5	65	110	160	130	4- $\Phi 13.5$	520	414	463	74	377	520	414
13	65WQC30-15-2.2	65	110	160	130	4- $\Phi 13.5$	545	439	463	74	377	545	439
14	65WQC35-15-3	65	110	160	130	4- $\Phi 13.5$	583	466	463	74	377	583	466
15	65WQC30-22-4	65	110	160	130	4- $\Phi 13.5$	610	453	469	74	383	610	453
16	65WQC30-30-5.5	65	110	160	130	4- $\Phi 13.5$	619	482	516	74	430	619	482
17	65WQC30-35-7.5	65	110	160	130	4- $\Phi 13.5$	619	482	521	74	435	619	482
18	80WQC50-8-2.2	80	128	190	150	4- $\Phi 17.5$	574	468	530	86	416	574	468
19	80WQC50-10-3	80	128	190	150	4- $\Phi 17.5$	606	489	530	86	416	606	489
20	80WQC50-15-4	80	128	190	150	4- $\Phi 17.5$	635	478	542	86	428	635	478
21	80WQC50-20-5.5	80	128	190	150	4- $\Phi 17.5$	648	511	581	86	467	648	511
22	80WQC50-25-5.5	80	128	190	150	4- $\Phi 17.5$	648	511	581	86	467	648	511
23	100WQC80-7-3	100	148	210	170	4- $\Phi 17.5$	628	511	582	100	469	628	511
24	100WQC80-10-4	100	148	210	170	4- $\Phi 17.5$	655	498	582	100	469	655	498
25	100WQC80-13-5.5	100	148	210	170	4- $\Phi 17.5$	648	511	591	100	478	648	511
26	100WQC80-18-7.5	100	148	210	170	4- $\Phi 17.5$	648	511	591	100	478	648	511
27	150WQC150-7-5.5	150	202	265	225	8- $\Phi 17.5$	675	538	749	150	697	675	538
28	150WQC150-10-7.5	150	202	265	225	8- $\Phi 17.5$	675	538	749	150	697	675	538

WQC型泵固定湿式安装尺寸表 Fixed wet installation dimension table

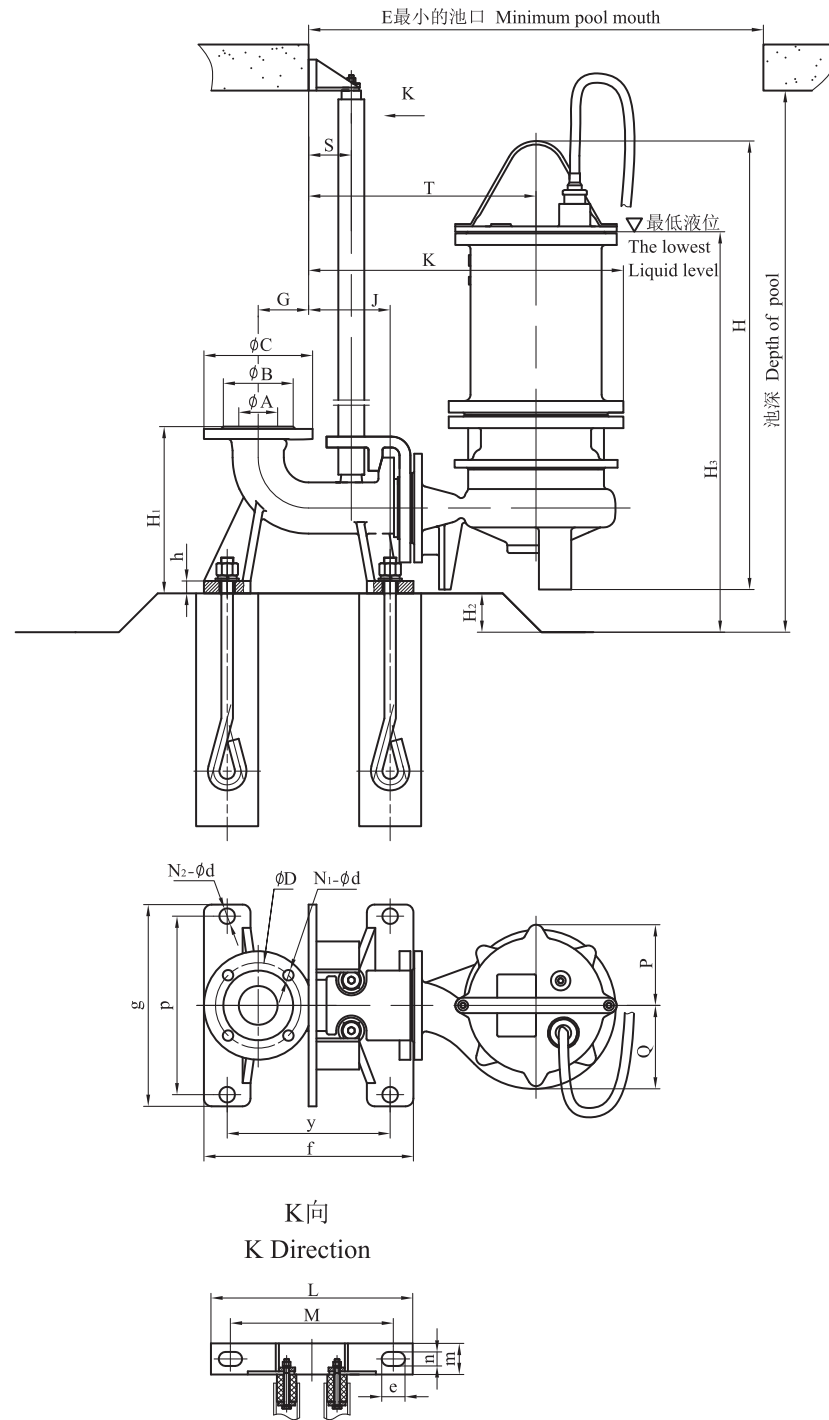
序 号 No.	型 号 Type	ΦA	ΦB	ΦC	ΦD	ΦC	ΦB	ΦA	型 号 Type	序 号 No.	250WQC370-8-11	250WQC400-10-15	44
29	65WQC40-40-11	65	110	160	130	130	130	130	65WQC40-40-11	29	65WQC40-40-11	250WQC370-8-11	44
30	65WQC50-46-15	65	110	160	130	130	130	130	65WQC50-46-15	30	65WQC50-46-15	250WQC370-8-11	44
31	80WQC70-30-11	80	128	190	150	150	150	150	80WQC70-30-11	31	80WQC70-30-11	250WQC370-8-11	44
32	80WQC80-34-15	80	128	190	150	150	150	150	80WQC80-34-15	32	80WQC80-34-15	250WQC370-8-11	44
33	80WQC70-48-18.5	80	128	190	150	150	150	150	80WQC70-48-18.5	33	80WQC70-48-18.5	250WQC370-8-11	44
34	80WQC80-53-22	80	128	190	150	150	150	150	80WQC80-53-22	34	80WQC80-53-22	250WQC370-8-11	44
35	100WQC120-31-18.5	100	148	210	170	170	170	170	100WQC120-31-18.5	35	100WQC120-31-18.5	250WQC370-8-11	44
36	100WQC130-33-22	100	148	210	170	170	170	170	100WQC130-33-22	36	100WQC130-33-22	250WQC370-8-11	44
37	150WQC160-15-11	150	202	265	225	225	225	225	150WQC160-15-11	37	150WQC160-15-11	250WQC370-8-11	44
38	150WQC200-16-15	150	202	265	225	225	225	225	150WQC200-16-15	38	150WQC200-16-15	250WQC370-8-11	44
39	200WQC280-10-11	200	258	320	280	280	280	280	200WQC280-10-11	39	200WQC280-10-11	250WQC370-8-11	44
40	200WQC300-13-15	200	258	320	280	280	280	280	200WQC300-13-15	40	200WQC300-13-15	250WQC370-8-11	44
41	200WQC300-16-18.5	200	258	320	280	280	280	280	200WQC300-16-18.5	41	200WQC300-16-18.5	250WQC370-8-11	44
42	200WQC300-18-22	200	258	320	280	280	280	280	200WQC300-18-22	42	200WQC300-18-22	250WQC370-8-11	44
43	250WQC370-8-11	250	312	375	335	335	335	335	250WQC370-8-11	43	250WQC370-8-11	250WQC370-8-11	44
44	250WQC400-10-15	250	312	375	335	335	335	335	250WQC400-10-15	44	250WQC400-10-15	250WQC370-8-11	44

WQC型泵自动耦合安装尺寸表 Auto-coupled installation dimentions table

序号 No.	型 号 Type	ΦA	ΦB	ΦC	ΦD	N2-Φd	H	H1	H2	H3	h	G	J	S	T	g	f	p	y	N1-Φd
1	32WQC8-10-0.75	32	69	120	90	4-Φ13.5	469	200	50	439	20	65	105	55	255	260	310	230	210	4-Φ20
2	32WQC8-15-1-1.1	32	69	120	90	4-Φ13.5	469	200	50	439	20	65	105	55	265	260	310	230	210	4-Φ20
3	50WQC15-8-0.75	50	90	140	110	4-Φ13.5	498	215	50	447	20	65	105	55	248	260	310	230	210	4-Φ20
4	50WQC15-12-1.1	50	90	140	110	4-Φ13.5	498	215	50	447	20	65	105	55	258	260	310	230	210	4-Φ20
5	50WQC15-16-1.5	50	90	140	110	4-Φ13.5	506	215	50	458	20	65	105	55	268	260	310	230	210	4-Φ20
6	50WQC15-22-2.2	50	90	140	110	4-Φ13.5	531	215	50	483	20	65	105	55	268	260	310	230	210	4-Φ20
7	50WQC15-30-3	50	90	140	110	4-Φ13.5	578	215	50	516	20	65	105	55	293	260	310	230	210	4-Φ20
8	50WQC25-25-3	50	90	140	110	4-Φ13.5	578	215	50	516	20	65	105	55	293	260	310	230	210	4-Φ20
9	50WQC30-20-4	50	90	140	110	4-Φ13.5	605	215	50	503	20	65	105	55	293	260	310	230	210	4-Φ20
10	50WQC25-32-5.5	50	90	140	110	4-Φ13.5	614	215	50	532	20	65	105	55	313	260	310	230	210	4-Φ20
11	50WQC25-36-5.5	50	90	140	110	4-Φ13.5	614	215	50	532	20	65	105	55	333	260	310	230	210	4-Φ20
12	65WQC30-10-1.5	65	110	160	130	4-Φ13.5	520	240	65	489	20	80	120	55	293	285	310	250	225	4-Φ20
13	65WQC30-15-2.2	65	110	160	130	4-Φ13.5	545	240	65	514	20	80	120	55	293	285	310	250	225	4-Φ20
14	65WQC35-15-3	65	110	160	130	4-Φ13.5	583	240	65	541	20	80	120	55	293	285	310	250	225	4-Φ20
15	65WQC30-22-4	65	110	160	130	4-Φ13.5	610	240	65	528	20	80	120	55	293	285	310	250	225	4-Φ20
16	65WQC30-30-5.5	65	110	160	130	4-Φ13.5	619	240	65	557	20	80	120	55	333	285	310	250	225	4-Φ20
17	65WQC30-35-7.5	65	110	160	130	4-Φ13.5	619	240	65	557	20	80	120	55	333	285	310	250	225	4-Φ20
18	80WQC50-8-2.2	80	128	190	150	4-Φ17.5	574	275	80	560	25	70	175	90	365	290	340	255	260	4-Φ20
19	80WQC50-10-3	80	128	190	150	4-Φ17.5	606	275	80	581	25	70	175	90	365	290	340	255	260	4-Φ20
20	80WQC50-15-4	80	128	190	150	4-Φ17.5	635	275	80	573	25	70	175	90	375	290	340	255	260	4-Φ20
21	80WQC50-20-5.5	80	128	190	150	4-Φ17.5	648	275	80	601	25	70	175	90	405	290	340	255	260	4-Φ20
22	80WQC50-25-5.5	80	128	190	150	4-Φ17.5	648	275	80	601	25	70	175	90	405	290	340	255	260	4-Φ20
23	100WQC80-7-3	100	148	210	170	4-Φ17.5	628	330	100	621	25	90	215	90	405	340	410	305	310	4-Φ20
24	100WQC80-10-4	100	148	210	170	4-Φ17.5	655	330	100	608	25	90	215	90	405	340	410	305	310	4-Φ20
25	100WQC80-13-5.5	100	148	210	170	4-Φ17.5	648	330	100	636	25	90	215	90	415	340	410	305	310	4-Φ20
26	100WQC80-18-7.5	100	148	210	170	4-Φ17.5	648	330	100	636	25	90	215	90	415	340	410	305	310	4-Φ20
27	150WQC150-7-5.5	150	202	265	225	8-Φ17.5	675	485	150	745	35	125	260	90	468	480	500	440	400	4-Φ20
28	150WQC150-10-7.5	150	202	265	225	8-Φ17.5	675	485	150	745	35	125	260	90	468	480	500	440	400	4-Φ20

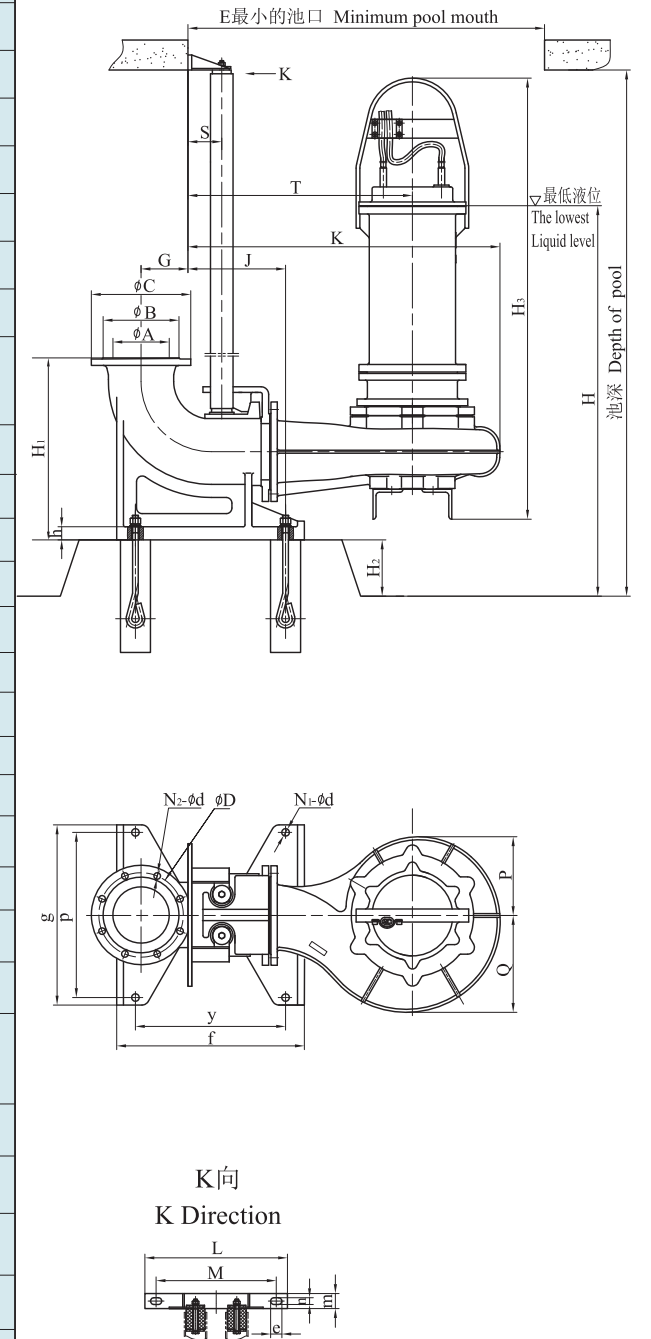
WQC型泵自动耦合安装尺寸表Auto-coupled installation dimentions table

P	Q	K	L	M	e	n	m	E
90	90	345	260	210	30	18	40	700×570
90	90	355	260	210	30	18	40	700×570
90	90	338	260	210	30	18	40	700×570
90	90	348	260	210	30	18	40	700×570
98	98	365	260	210	30	18	40	700×570
98	98	366	260	210	30	18	40	700×570
113	113	406	260	210	30	18	40	850×700
113	113	406	260	210	30	18	40	850×700
118	118	406	260	210	30	18	40	850×700
130	130	451	260	210	30	18	40	850×700
130	130	471	260	210	30	18	40	850×700
98	115	396	260	210	30	18	40	850×700
98	115	396	260	210	30	18	40	850×700
113	115	405	260	210	30	18	40	850×700
118	118	411	260	210	30	18	40	900×750
130	130	472	260	210	30	18	40	900×750
130	130	472	260	210	30	18	40	900×750
101	128	480	380	320	30	18	40	850×700
113	128	480	380	320	30	18	40	850×700
118	130	492	380	320	30	18	40	850×700
130	137	544	380	320	30	18	40	900×750
130	137	531	380	320	30	18	40	900×750
113	143	532	380	320	30	18	40	900×750
118	143	532	380	320	30	18	40	900×750
130	137	554	380	320	30	18	40	900×750
130	137	554	380	320	30	18	40	900×750
146	186	635	380	320	30	18	40	950×750
146	186	635	380	320	30	18	40	950×750



自动耦合式安装尺寸 (0.75~7.5kW)
Auto-coupled installation dimension (0.75~7.5kW)

E	850×700	850×700	900×750	900×750	900×750	900×750	950×750	950×750	1100×800	1100×800	1400×1100	1400×1100	1400×1100	1400×1100	1400×1100
m	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
n	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
e	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
M	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
L	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260
K	523	523	588	588	663	663	663	663	832	832	885	885	905	905	977
Q	155	155	166	166	188	188	188	188	260	260	300	300	272	272	333
P	148	148	148	148	188	188	188	188	210	210	230	230	216	216	256
N1-φd	4-φ20	4-φ20	4-φ20	4-φ20	4-φ20	4-φ20	4-φ20	4-φ20	4-φ20	4-φ20	4-φ30	4-φ30	4-φ30	4-φ30	4-φ30
y	225	225	260	260	260	260	260	260	400	400	470	470	470	470	480
p	250	250	255	255	255	255	255	255	440	440	500	500	500	500	520
f	310	310	340	340	340	340	340	340	410	410	500	500	500	500	610
g	285	285	290	290	290	290	290	290	480	480	550	550	550	550	600
T	373	373	435	435	475	475	475	475	598	598	615	615	660	660	680
S	55	55	90	90	90	90	90	90	90	90	90	90	90	90	90
J	120	120	175	175	175	175	175	175	260	260	260	260	260	260	260
G	80	80	70	70	70	70	70	70	125	125	200	200	200	200	200
h	20	20	25	25	25	25	25	25	35	35	30	30	30	30	40
H3	721	776	777	832	935	895	980	940	1040	1115	1135	1210	1175	1230	1300
H2	65	65	80	80	80	80	100	100	150	150	200	200	200	200	250
H1	240	240	275	275	275	275	330	330	485	485	570	570	570	570	610
H	1016	1071	1027	1082	1256	1216	1255	1215	1176	1250	1175	1250	1270	1325	1283
N2-φd	4-φ13.5	4-φ13.5	4-φ17.5	4-φ17.5	4-φ17.5	4-φ17.5	4-φ17.5	4-φ17.5	8-φ17.5	8-φ17.5	8-φ17.5	8-φ17.5	8-φ17.5	12-φ17.5	12-φ17.5
φD	130	130	150	150	150	150	170	170	225	225	280	280	280	335	335
φC	160	160	190	190	190	190	210	210	265	265	320	320	320	375	375
φB	110	110	128	128	128	128	148	148	202	202	258	258	258	312	312
φA	65	65	80	80	80	80	100	100	150	150	200	200	200	250	250
型号 Type	65WQ40-40-11	65WQ50-46-15	80WQ70-30-11	80WQ80-34-15	80WQ70-48-18.5	80WQ80-53-22	100WQ120-31-18.5	100WQ130-33-22	150WQ160-15-11	150WQ200-16-15	200WQ280-11-11	200WQ300-13-15	200WQ300-16-18.5	250WQ370-8-11	250WQ400-10-15
序号 No.	29	30	31	32	33	34	35	36	37	38	39	40	41	42	44



自动耦合式安装尺寸 (11~22kW)
Auto-coupled installation dimension (11~22kW)

使用、检查与维修 Use, check and service

1、使用注意事项

泵不宜在易燃、易爆的介质环境中使用，也不宜抽送可燃性液体。

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

当采用固定式自动耦合安装时，用吊链拴住提手，上下起吊泵，注意轻起轻放。

泵放入水中时应垂直起吊，不允许横放着地，更不能陷入污泥中。

吐出管路上应装流量调节阀，避免流量过大导致电机过载。

2、使用前的检查

仔细检查泵在运输、存放、安装过程中有无变形或损坏，紧固件是否松动或脱落。

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

用500V兆欧表测量电机相间和相对地间的绝缘电阻，其值不应低于50兆欧，否则应对电机定子绕组进行干燥处理，干燥处理的温度不得超过120℃。

检查油室上的螺塞和密封垫片是否齐全。检查螺塞是否已将密封垫片压紧。

检查叶轮转动是否灵活。

检查电源装置是否安全可靠、正常、检查电缆中的接地线是否已可靠接地。

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

1.Precautions at use

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

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

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

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

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

2.Check before use

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

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

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

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

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

Check if the impeller rotates flexibly.

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

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

WQC SERIES SUBMERSIBLE SEWAGE PUMP

3、启动

启动时应关闭吐出管路上的流量调节阀，当泵全速运转后再逐渐打开阀门。注意不能长时间在该阀门关闭的情况下运转。

4、停车

当泵停用预计达半月以上时，应将泵吊起清洗并置于干燥处。当气温较低时，应将泵提出水面并排尽泵内液体，防止冰冻。

5、定期检查

电机相间和相对地间绝缘电阻，其值不低于50兆欧，否则应拆机检修，同时应检查接地是否牢固可靠。

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

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

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

3.Starting

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

4.Stopping

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

5.Check

Periodically check the dielectric resistance between phases and between phase and ground, the value of which should not be lower than 2 megohm, otherwise it has to be removed to overhaul, and, at the same time, check if the grounding is secured and reliable.

After half a year running of the pump under the provided working medium condition, check the state of the oil chamber and replace it with N10 mechanical oil if it shows emulsified state. It is possible that the mechanical seal on the pump. Side is made damaged when the leakage probe gives a warning with the pump running for a short time after the oil replacement and replace it at once. More often check the pump when it is used under a very adverse working condition.

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

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

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

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

管路损耗参考表 Reference table for pipeline loss

[illegible]

一定管路直径之最大流量限制

Limit of the maximum flow for a pipe with a certain diameter

管路直径 Pipeline diameter (mm)	最大流量 Maximum flow (L/s)	最大流速 Maximum flow rate (m/s)
25	1	2.04
38	2.5	1.69
50	4.17	2.12
65	6.67	2.01
75	10.0	2.26
100	18.4	2.33

注: 超过此限使管路损失显著增加。

阀门及弯管长度(每个)

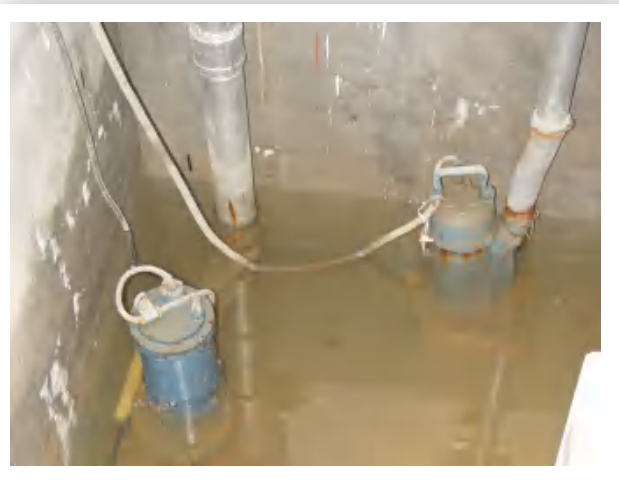
The length of a straight pipe converted into from both valve and elbow(each)

种 类 Variety	折合直管直径倍数 Convert into the times of the diameter of a straight pipe	备 注 Remark
标准弯管 Standard elbow	12	未畅开加倍 Multiple in case of unopen
全开闸阀 Fully opened gate valve	25	
逆止阀 Back valve	100	
底阀 Foot valve	100	部分堵塞加倍 Partial block-up multiplied

注: 例如100mm直管管, 底阀折合100倍直径等于 $100 \times 100 = 10000\text{mm} = 10\text{m}$ 直径长度, 假定流量为 8L/s 查上表, 直管每100m损失1.3m, 则10m损失0.13m, 即一个100mm底阀, 流量为 8L/s 时, 损失扬程0.13m。

Note: For instance, a 100mm diameter pipe, the foot valve has a $100 \times 100 = 10000\text{mm}^2 = 10\text{m}^2$ when which is converted into 100 times that of the pipe's diameter. Suppose the flow is 8L/s Looked into the above table, the loss of the straight pipe is 1.3m each 100m , then the one for 100m is 0.13m , that is, for a 100mm foot valve with a flow 8L/s , its head loss is 0.13m .

典型案例 typical case enterprise class



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

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

Agency :