



LISG、LISW、LIHG、LIHW型单级单吸离心泵  
LISG、LISW、LIHG、LIHW Series Single-Stage Single-suction  
Centrifugal Pump

# 公司简介

上海莲盛泵业制造有限公司上海莲盛水泵厂创建于六十年代，是国内著名的大型给排水设备生产制造企业。上海莲盛泵业拥有专业的研制开发、生产销售、测试鉴定团队，优质的服务，先进的技术发展理念；提供泵、阀和流体输送系统、电气控制系统设备和解决方案，产品广泛适用于城市、矿山、化工、锅炉、空调、消防等行业给排水以及适用宾馆、酒店、大厦、旅游、娱乐场所、军事等工程领域的应用。不断前进中的莲盛泵业正与同行与时俱进，销售市场网络遍及全国各地。

竞争中的莲盛泵业，技术力量雄厚、拥有一支高素质的管理层和员工队伍及配套齐全的现代化生产、管理控制设备，并拥有高科技的集信息、科研、设计、试制、鉴定于一体化的水泵研究所，可随时根据市场(顾客)动态，不断研发新产品，满足市场(顾客)的不断变化需求。发展中的莲盛泵业是最早得到IS09001:2008国内、国际质量体系认证，并以中国泵业协会、上海市商标协会、上海市先进企业、中国名牌产品为企业形象维护准则，制造出了一个又一个的优秀产品成果。产品在上海市第三、第四、第五、第六届技术交流会上获“节能产品奖”，全国星火杯成果适用技术展览会上获“银奖”、上海市科学成果“三等奖”，全国创造发明竞赛“优秀产品奖”，上海市第五届科学技术博览会上莲盛牌系列产品获“金奖”，并在2003年成为首届国家级“重合同、守信用”企业，获得了中国政府的LC(信用证)。“莲盛”牌商标连续两届被上海海市认定为“上海市著名商标”的称号。

奋进中的莲盛泵业以“实实在在的产品、实实在在的质量、实实在在的服务、实实在在的诚信”为宗旨、不断推出“莲盛”牌卓越产品面向市场，共创未来共同发展的市场和辉煌。

## Company Profile

Shanghai Liansheng Pump Making Co., Ltd. (Shanghai Liansheng Pump Factory), established in the sixties, is well-known large-scaled domestic water supply and drainage equipment manufacturing enterprise. Shanghai Liansheng Pump Industry has professional research and development, production and sales, test and identification team, high-quality service, advanced technology development concept; provide pumps, valves and fluid delivery systems, electrical control system equipment and solutions. Its products are widely used in cities, mines, chemical, industry, boilers, air conditioning and other fields for water supply and drainage as well as in guesthouses, buildings, tourism, entertainment places, and other engineering fields. The everongoing company is advancing with the times together with its peers. Its sales network covers the whole country.

The company has a strong technical force in competition, high quality management and ordinary employees, complete modern production, management and control equipment and a high-tech water pump research institute integrating information, research, design, trial production and identification, which enables it to keep developing new products according to the market(customer) trends to meet their ever-changing market(customer) needs.

As one of the enterprises passing the domestic and international IS09001: 2008 quality system certifications, this growing company maintains its image in line with the requirements of the China General Machinery Industry Association pump Association, Shanghai Trademark Association, Advanced Enterprise of Shanghai and China Top-Brand Products, and has produced many excellent products. Some of its products were granted the “Energy-saving Product Award” of the third, fourth fifth and sixth technical exchanges of Shanghai, the Silver Award of the National Spark Cup Achievement Application Technology Exhibition, the third prize of the Scientific Achievement Award of Shanghai, and the “Excellent Product Award” on the National Invention Contest. Several products from Liansheng Brand were granted the golden prize on the Fifth Science and Technology Exhibition of Shanghai. In 2003, the company was selected as a First National “trustworthy” Enterprise and obtained the LC(letter of credit) of the Chinese government. The Liangsheng trademark was, for two consecutive times, granted the title of “Famous Trademark of Shanghai” by Shanghai

Adhering to the tenet of “Concrete Products, Quality, Services and Good Faith”, the enterprising company always launches excellent products of the Liansheng brand to the market, creating common development based market and splendor in the future

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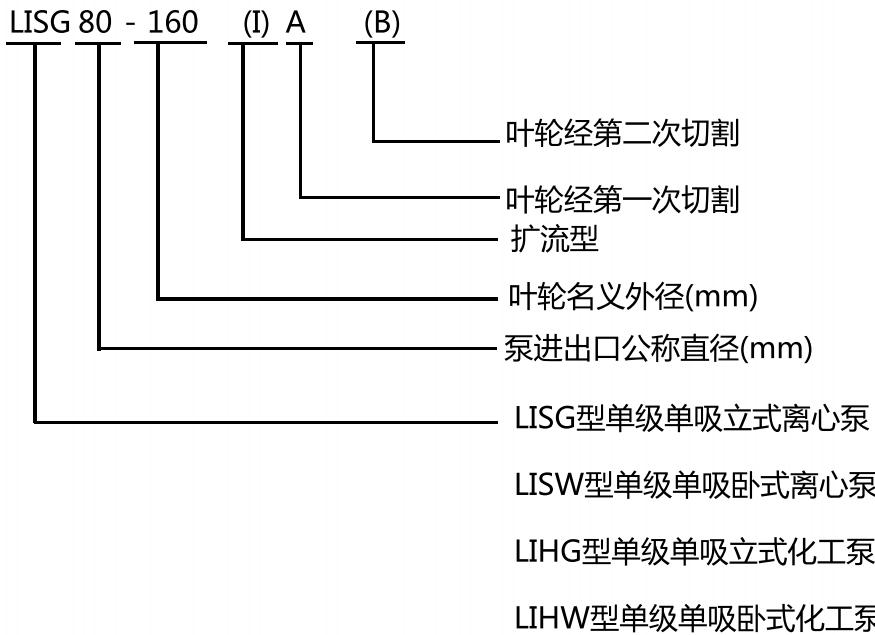


## 概述

LISG、LIHG型单级单吸立式离心泵是本公司采用IS型离心泵性能参数和立式泵结构之长，严格按照国际标准ISO2858及最新国家标准设计成功的高效节能产品，是代替IS型卧式泵、DL型泵等常规产品的新颖立式离心泵。LISW、LIHW型单级单吸卧式离心泵是在参照本公司LISG系列立式离心泵基础上改进设计而成，其性能参数等同于LISG系列泵，并符合ISO2858要求，产品严格按有关要求组织生产，产品质量稳定，性能可靠，是代替IS型卧式泵，DL型泵等常规产品的新颖卧式离心泵。

流量范围1.5~1200m<sup>3</sup>/h，扬程范围8~150m，分基本型、扩流型、A、B、C切割型等300多种规格。

## 型号意义



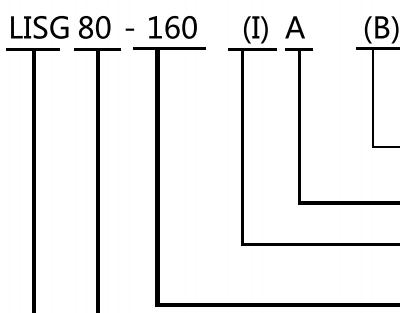
## Overview

LISG、LIHG single-stage single-suction vertical centrifugal pump is a high-effective energy saving product successfully designed by means of adopting the property data of IS model centrifugal pump and the unique merits of vertical pump and strictly in accordance with ISO2858 world standard and the latest national standard and an ideal product to replace IS horizontal pump, DL model pump etc.-ordinary pumps.

LISW、LIHW single-stage single-suction horizontal centrifugal pumps are made by way of improving the design on the basis of LISG series vertical centrifugal pump made in this Co., with the performance parameters equal to those of LISG series and conforming with the requirements of ISO2858, and of a stable quality and reliable performance, really a brand-new horizontal centrifugal pump replacing model IS horizontal pump, model DL pump etc, ordinary products.

The flow range is 1.5~1200m<sup>3</sup>/h and the stroke range 8~150m and there are basic type, by pass type, A、B、C cutting type etc. more than 300 specifications.

## Model



Impeller through second-cutting

Impeller through first-cutting

Incremental capacity

Nominal O.D. of impeller(mm)

Nominal dia. of inlet and outlet apertures(mm)

LISG single-stage single-suction vertical centrifugal pump

LISW single-stage single-suction horizontal centrifugal pump

LIHG single-stage single-suction vertical chemical pump

LIHW single-stage single-suction horizontal chemical pump



## 产品特点

- 1、泵结构紧凑、体积小、外形美观。其立式结构重心较低且重合于泵脚中心，增强了泵的运行稳定性和使用寿命。
- 2、安装方便。进出口径相同并在同一中心线上，可象阀门一样直接安装在管路任何部位。电机加上防雨罩可置于户外使用。泵设有安装底脚，以便泵的安装稳定。
- 3、运行平稳、噪音低、组件同心度高。电机采用低噪音轴承，并设有不停机加油装置，泵叶轮具有极好的动静平衡，运行无振动，改善使用环境。
- 4、无渗漏。轴封采用耐腐硬质合金机械密封，解决了离心泵填料密封渗漏严重的问题，延长了使用寿命，确保了运行场地干净整洁。
- 5、维修方便。勿需拆卸管道，只要拆下泵盖螺母，取出电机及传动组件即可进行检修维护。
- 6、可根据现场使用条件，泵机可立式、卧式、多方式安装，依据流量扬程要求，采用并、串联方法，增加所需流量扬程。

## 工作条件

- 1、泵系统高工作压力为 $\leq 1.6\text{ MPa}$ ，即泵吸入口压力+泵扬程 $\leq 1.6\text{ MPa}$ ，订货时请注明系统工作压力。当进口压力大于 $0.4\text{ MPa}$ ，或泵系统工作压力大于 $1.6\text{ MPa}$ 时，应在订货时另行提出，以便在制造时，泵的过流部分和联接部分采用球铁或铸钢材料。
- 2、适用介质：清水泵介质应无腐蚀性液体；介质固体不溶物，其体积不超过单位体积 $0.1\%$ ，粒度 $<0.2\text{ mm}$ ，如介质为带有细小颗粒的请在订货时说明。
- 3、周围环境温度不超过 $40^\circ\text{C}$ ，相对湿度不超过 $95\%$ 。

## Product Features

1. Compact structure, small volume, beautiful outlook. The lower barycenter of the vertical structure which coincides with the center of barycenter of the vertical structure which coincides with the center of the pump feet strengthens the stability of running and the duration.
2. Easy to mount. Because of the same apertures of both inlet and outlet which also locate on the same central line, the pump can be directly mounted on and part of the pipeline just as a valve. The motor is covered with a rainproof cap so that operation can be done outdoors. Mounted.
3. Stable running, low noise, high concentricity of components. Bearings of low noise are used for the motor, the impellers are of best dynamic and static balance, no vibration at running and the environment thus being improved.
4. No leakage. The shaft is mechanically sealed with carbide alloy wearable material, settling the serious leakage of the filling seal of a centrifugal pump, extending the duration and ensuring the operation place clean and tidy.
5. Easy to maintain. Not necessary to remove the pipeline for check-out and maintenance, only to take out the nuts on the pump lid, the motor and the driving components.
6. The pump, according to the operation condition of the worksite, may be vertically, horizontally etc. multiways mounted and also according to the requirements for the flow and stroke, mounted in parallel and/or in series to increase the needed flow and stroke.

## Working Conditions

1. Max. working pressure of pump system is  $\leq 1.6 \text{ MPa}$ . That to say the pressure at the suction + the stroke  $\leq 1.6 \text{ MPa}$ , the pressure in static tests is  $0.4 \text{ MPa}$ , please notify the pressure for the system at work when ordering and it should be otherwise noted if the said pressure is larger than  $1.6 \text{ MPa}$ . So that at the time of manufacture, the overcurrent part of the pump and the connection part of the use of ductile iron or cast steel material.
2. Proper medium: the medium for pure water pumps should have no corrosive liquid and the volume and the graininess less than  $0.2 \text{ mm}$ . Please notify at order if the medium to be used with small grain.
3. No larger than  $40^\circ\text{C}$  of the ambient temperature, no higher than  $1000 \text{ m}$  of the above-sea level and no more than 95% of the relative humidity.



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## 主要用途

- 1、LISG型立式离心泵，供输送清水及物理性质类似清水的其它液体之用。使用介质温度80°C以下。适用于工业和城市给排水、高层建筑增压送水、园林喷灌、消防增压、远距离输水、采暖、浴室冷暖水循环增压及设备配套等。
- 2、LIHG型立式化工泵，输送不含固体颗粒具有腐蚀性其粘度类似水的液体。适用于轻纺、石油、化工、冶金、电力、造纸、食品、制药和合成纤维等部门，使用温度-20°C~120°C。
- 3、LISW型卧式离心泵，供输送清水及物理性质类似清水的其它液体之用。使用介质温度80°C以下。适用于工业和城市给排水、高层建筑增压送水、园林喷灌、消防增压、远距离输水、采暖、浴室冷暖水循环增压及设备配套等。
- 4、LIHW型卧式化工泵，输送不含固体颗粒具有腐蚀性其粘度类似水的液体。适用于轻纺、石油、化工、冶金、电力、造纸、食品、制药和合成纤维等部门，使用温度-20°C~120°C。

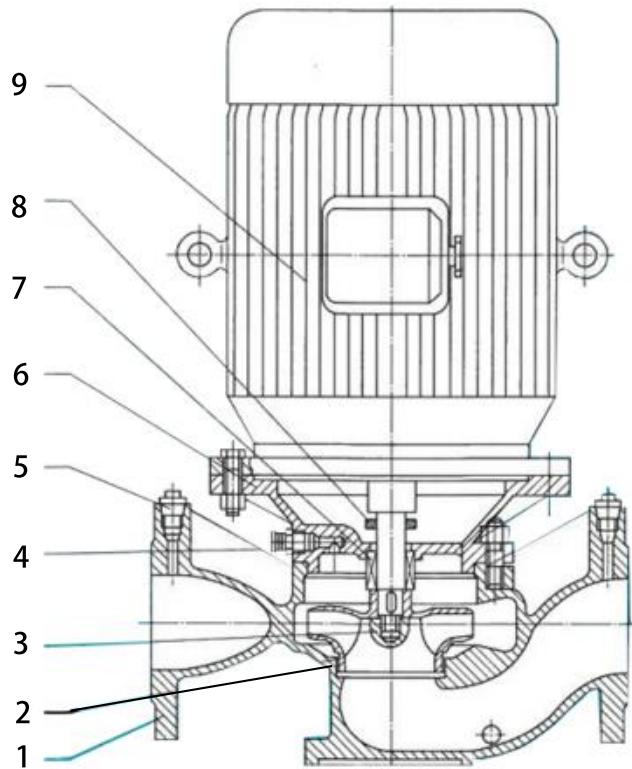
## Chief Usage

- 1、LISG series vertical centriugal pump is used to transport pure-water and other liquids, the physical properties o which are similar to those of purewater, in industrial ancities' water supply and drainage, high buildings' booster water supply, gardens irrigation, fire-fighting booster, remote watet supply, warming systems, circular booster o cold & hot watcr in bath rooms as well as in competitions o equipments, the operation medium temperature is below 80°C.
- 3、LIHG series horizontal chcmical pump is used to transport the liquids containing no solid grain,corrosive and the viscosity of which is similar to water or the departements of light & textile industry, pertoleum.chemieal industry, electricity,paper-making,food,medicine qand synthetic ibre etc.,the operation temperature is -20°C~120°C
- 3、LISW series horizontal centriugal pump is used to transport pure-water and other liquids, the physical properties o which are similar to those of purewater, in industrial ancities' water supply and drainage, high buildings' booster water supply, gardens irrigation, fire-fighting booster, remote watet supply, warming systems, circular booster o cold & hot watcr in bath rooms as well as in competitions o equipments, the operation medium temperature is below 80°C.
- 4、LIHW series horizontal chcmical pump is used to transport the liquids containing no solid grain,corrosive and the viscosity of which is similar to water or the departements of light & textile industry, pertoleum.chemieal industry, electricity,paper-making,food,medicine qand synthetic ibre etc.,the operation temperature is -20°C~120°C.

## 主要材质及选用 Main materials and choice

产品系列	零件名称	泵体	叶轮	泵盖	联体座	轴	叶轮螺母	静环材料	动环材料
	Material	Pump casing	Impeller	Pump cover	Body-linked	Shaft	Impeller nut	Static ring	Dynamic ring
LISG型	材料Part	HT200	HT200	HT200	HT200	20Cr13	20Cr13	碳化硅 ( Sic )	石墨
LISW型	材料Part	HT200	HT200	HT200	HT200	20Cr13	20Cr13	碳化硅 ( Sic )	石墨
LIHG型	材料Part	ZG06Cr18Ni9	ZG06Cr18Ni9	ZG06Cr18Ni9	HT200	30Cr13	20Cr13	碳化钨 ( WC )	碳化硅 ( Sic )
LIHW型	材料Part	ZG06Cr18Ni9	ZG06Cr18Ni9	ZG06Cr18Ni9	HT200	30Cr13	20Cr13	碳化钨 ( WC )	碳化硅 ( Sic )

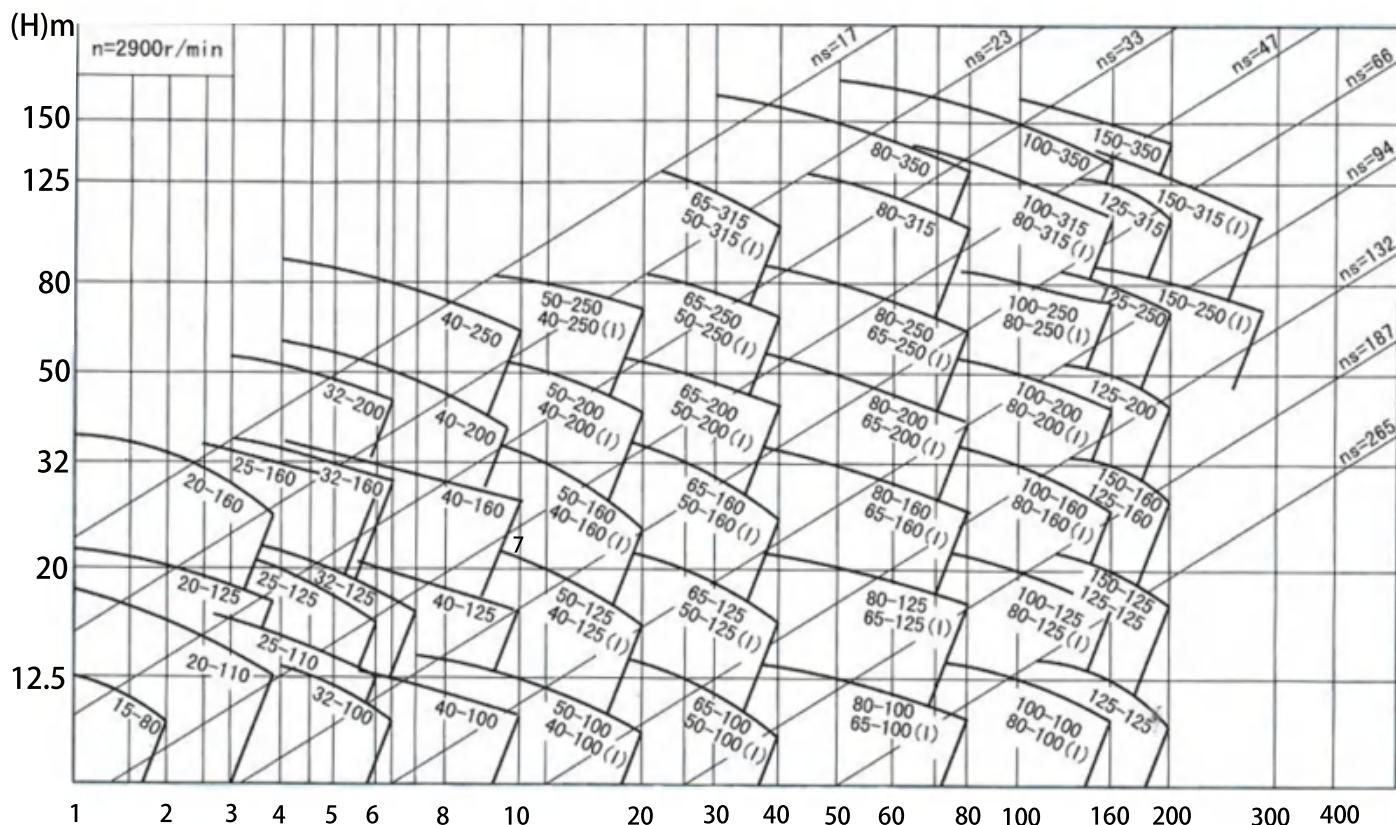
LISG、LIHG型泵结构图 Structre diagram



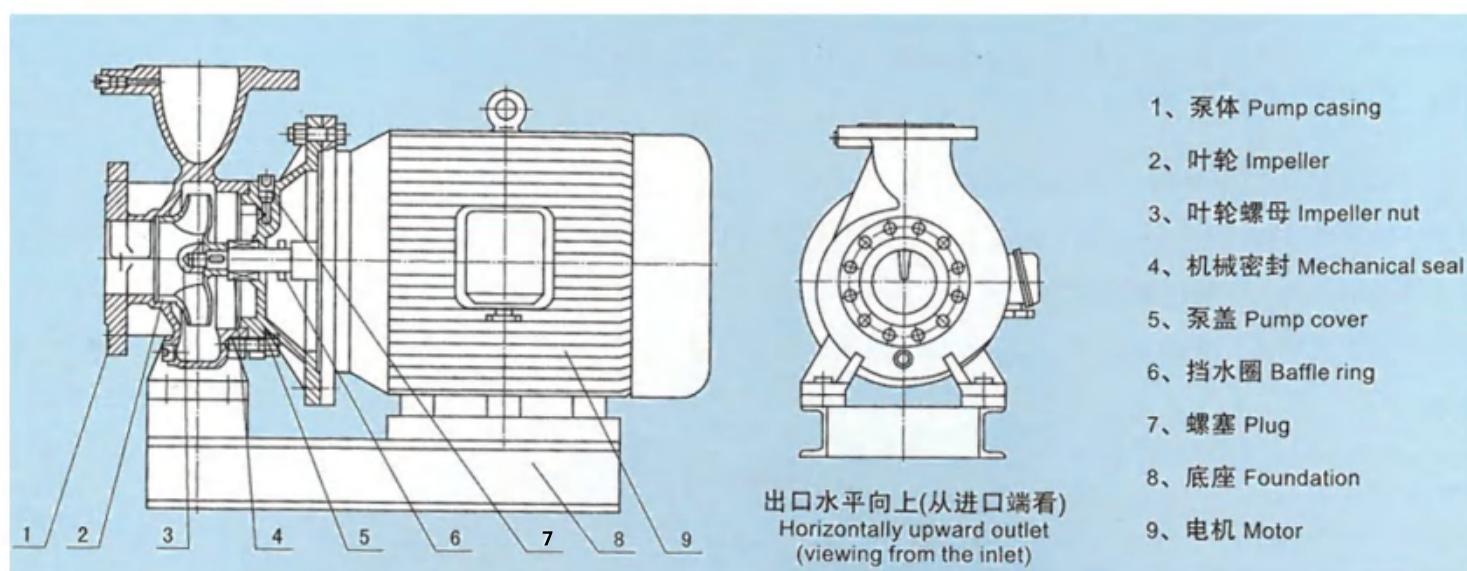
序号No	名称Name	数量Quantity
1	泵体 Pump casing	1
2	叶轮 Impeller	1
3	叶轮螺母 Impeller nut	1
4	放气阀 Air discharge valae	1
5	螺塞 Piug	3
6	泵盖 Pump cover	1
7	机械密封 Mechanical seal	1
8	挡水圈 Water-bloching ring	1
9	电机 Motor	1



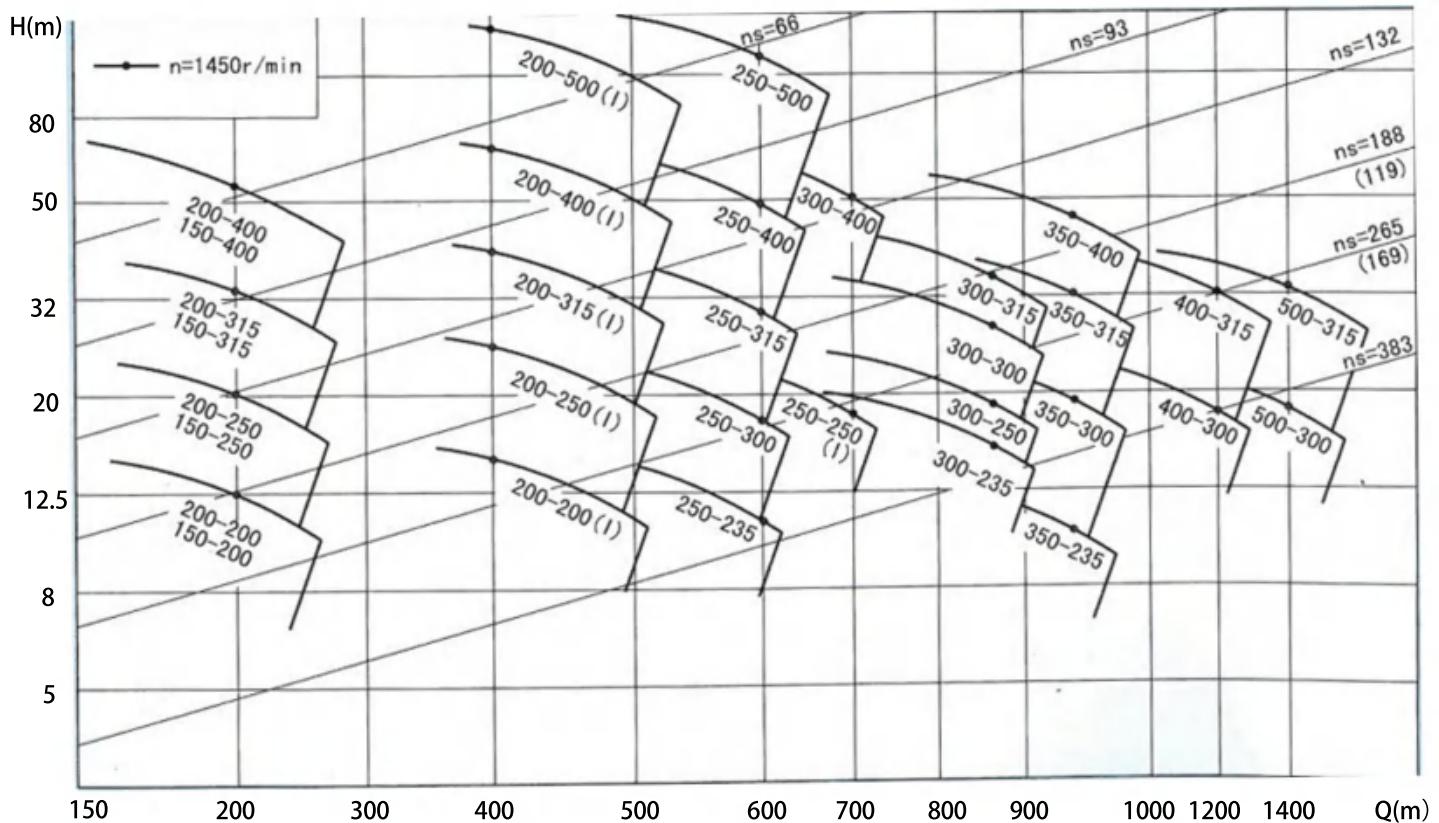
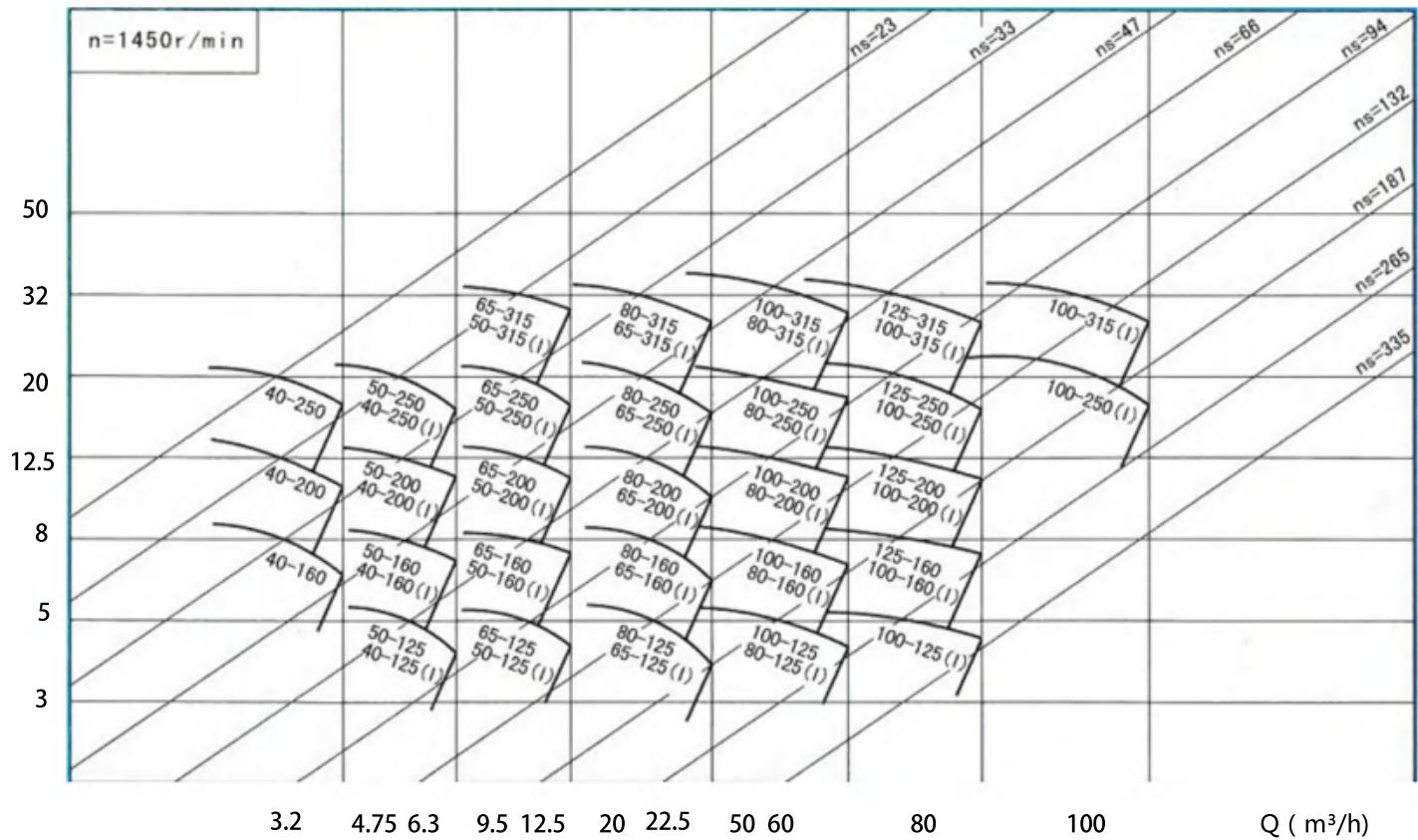
## LISG、LIHG、LISW、LIHW型型谱图 Atlas of style



## LISW、LIHW型泵结构图 Structre diagram



## LISW、LIHW型泵结构图 Structre diagram





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性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head m	效率 Eff %	必需气蚀余量 NPSH m	电动机Motor	
		m³/h	L/s				Kw	r/min
1	20-110	1.8	0.5	16	25	2.5	0.75	2900
		2.5	0.7	15	34			
		3.3	0.9	13.5	32			
2	20-125	1.8	0.5	21	23	2.5	0.75	2900
		2.5	0.7	20	28			
		3.3	0.9	18.6	26			
3	20-160	1.8	0.5	33	19	2.5	1.1	2900
		2.5	0.7	32	25			
		3.3	0.9	30	23			
4	25-110	2.8	0.8	16	34	2.5	0.75	2900
		4	1.1	15	42			
		5.2	1.4	13.5	41			
5	25-125	2.8	0.8	20.5	28	2.5	0.75	2900
		4	1.1	20	36			
		5.2	1.4	18	35			
6	25-125A	2.5	0.7	17	30	2.5	0.75	2900
		3.6	1.0	16	35			
		4.6	1.3	14.5	34			
7	25-160	2.8	0.8	33	24	2.5	1.5	2900
		4	1.1	32	32			
		5.2	1.4	30	31			
8	25-160A	2.6	0.7	29	28	2.5	1.1	2900
		3.7	1.0	28	31			
		4.9	1.4	26	29			
9	32-100	3.5	1.0	14.5	34	2.5	0.75	2900
		4.5	1.3	12.5	40			
		5.3	1.5	11	35			
10	32-125	3.5	1.0	22	40	2.5	0.75	2900
		5	1.4	20	44			
		6.5	1.8	18	42			
11	32-125A	3.1	0.9	17.6	40	2.5	0.75	2900
		4.5	1.3	16	43			
		5.8	1.6	14.4	41			
12	32-160	3.5	1.0	33	24	2.5	1.5	2900
		5	1.4	32	32			
		6.5	1.8	30	31			
13	32-160A	3.5	1.0	26.5	24	2.5	1.1	2900
		4.5	1.3	25	32			
		6	1.7	19	31			
14	32-160(I)	4.4	1.2	33.2	34	2.5	2.2	2900
		6.3	1.8	32	40			
		8.3	2.3	30.2	39			
15	32-200	3.5	1.0	51	26	2.5	3	2900
		5	1.4	50	33			
		6.5	1.8	48	32			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				Kw	r/min
16	32-200A	3.1	0.9	44.6	34	2.5	2.2	2900
		4.5	1.3	44	40			
		5.8	1.6	42.7	39			
17	32-200B	2.45	0.7	40	34	2.5	1.5	2900
		3.5	1.0	38	40			
		4.55	1.3	33	39			
18	32-200(I)	4.4	1.2	50.5	26	2.5	4	2900
		6.3	1.8	50	33			
		8.3	2.3	48	32			
19	40-100	4.4	1.2	13.2	48	2.5	0.75	2900
		6.3	1.8	12.5	54			
		8.3	2.3	11.3	53			
20	40-100A	3.9	1.1	10.6	49	2.5	0.75	2900
		5.6	1.6	10	52			
		7.4	2.1	9	50			
21	40-125	4.4	1.2	21	41	2.5	1.1	2900
		6.3	1.8	20	46			
		8.3	2.3	18	43			
22	40-125A	3.9	1.1	17.6	40	2.5	0.75	2900
		5.6	1.6	16	45			
		7.4	2.1	16	41			
23	40-160	4.4	1.2	33	35	2.5	2.2	2900
		6.3	1.8	32	40			
		8.3	2.3	30	39			
24	40-160A	4.1	1.1	29	34	2.5	1.5	2900
		5.9	1.6	28	39			
		7.8	2.2	26.3	38			
25	40-160B	3.8	1.1	25.5	34	2.5	1.1	2900
		5.5	1.5	24	38			
		7.2	2.0	22.5	37			
26	40-200	4.4	1.2	51	26	2.5	4	2900
		6.3	1.8	50	33			
		8.3	2.3	48	32			
		2.2	0.6	13	26	2.5	0.75	1450
		3.2	0.9	12.5	33			
		4.2	1.2	12	32			
27	40-200A	4.1	1.1	45	26	2.5	3	2900
		5.9	1.6	44	31			
		7.8	2.2	42	30			
		2	0.6	10.4	26	2.5	0.37	1450
		2.8	0.8	10	31			
		3.7	1.0	9.6	30			
28	40-200B	3.7	1.0	38	25	2.5	2.2	2900
		5.3	1.5	36	29			
		7	1.9	34.5	28			



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莲盛泵业

性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				m	Kw
29	40-250	4.4	1.2	82	24	2.5	7.5	2900
		6.3	1.8	80	28			
		8.3	2.3	74	27			
		2.2	0.6	20.5	24	2.5	1.1	1450
		3.2	0.9	20	28			
		4.2	1.2	18.5	27			
30	40-250A	4.1	1.1	72	24	2.5	5.5	2900
		5.9	1.6	70	28			
		7.8	2.2	65	27			
		2	0.6	16.4	24	2.5	0.75	1450
		2.8	0.8	16	28			
		3.7	1.0	15	27			
31	40-250B	3.8	1.1	61.5	23	2.5	4	2900
		5.5	1.5	60	27			
		7	1.9	56	26			
		1.6	0.4	13.2	23	2.5	0.75	1450
		2.3	0.6	13	27			
		3.4	0.9	12	26			
32	40-100(I)	8.8	2.4	13.2	55	2.5	1.1	2900
		12.5	3.5	12.5	62			
		16.3	4.5	11.3	60			
33	40-100(I)A	8	2.2	10.6	53	2.5	0.75	2900
		11	3.1	10	60			
		14.5	4.0	9	58			
34	40-125(I)	8.8	2.4	21.2	49	2.5	1.5	2900
		12.5	3.5	20	58			
		16.3	4.5	17.8	57			
35	40-125(I)A	8	2.2	17	48	2.5	1.1	2900
		11	3.1	16	57			
		14.5	4.0	14	56			
36	40-160(I)	8.8	2.4	33	45	2.5	3	2900
		12.5	3.5	32	52			
		16.3	4.5	30	51			
		3.8	1.1	8.5	45	2.5	0.75	1450
		6.3	1.8	8	52			
		7.5	2.1	7.5	51			
37	40-160(I)A	8.2	2.3	29	44	2.5	2.2	2900
		11.7	3.3	28	51			
		15.2	4.2	26	50			
38	40-160(I)B	7.3	2.0	23	43	2.5	1.5	2900
		10.4	2.9	22	50			
		13.5	3.8	20.5	49			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				m	Kw
39	40-200(I)	8.8	2.4	51.2	38	2.5	5.5	2900
		12.5	3.5	50	46			
		16.3	4.5	48	44			
		3.8	1.1	13.1	38	2.5	0.75	1450
		6.3	1.8	12.5	46			
		7.5	2.1	12	44			
40	40-200(I)A	8.3	2.3	45	37	2.5	4	2900
		11.7	3.3	44	45			
		15.3	4.3	42	43			
		3.3	0.9	10	37	2.5	0.75	1450
		5.5	1.5	9.5	45			
		6.5	1.8	9	43			
41	40-200(I)B	7.5	2.1	37	36	2.5	3	2900
		10.6	2.9	36	44			
		13.8	3.8	34	42			
42	40-250(I)	8.8	2.4	81.2	31	2.5	11	2900
		12.5	3.5	80	38			
		16.3	4.5	77.5	37			
		3.8	1.1	20.5	31	2.5	1.5	1450
		6.3	1.8	20	38			
		7.5	2.1	19.5	37			
43	40-250(I)A	8.2	2.3	71	30	2.5	7.5	2900
		11.6	3.2	70	37			
		15.2	4.2	68	36			
		3.4	0.9	16.4	30	2.5	1.1	1450
		5.6	1.6	16	37			
		6.7	1.9	15.6	35			
44	40-250(I)B	7.6	2.1	61.4	28	2.5	5.5	2900
		10.8	3.0	60	35			
		14	3.9	58	33			
		3.1	0.9	13.2	28	2.5	0.75	1450
		5.1	1.4	13	35			
		6.1	1.7	12.5	33			
45	40-250(I)C	7.1	2.0	53.2	27	2.5	5.5	2900
		10	2.8	52	34			
		13.1	3.6	50.4	32			
46	50-100	8.8	2.4	13.6	55	2.5	1.1	2900
		12.5	3.5	12.5	62			
		12.5	3.5	11.3	60			
47	50-100A	8	2.2	11	53	2.5	0.75	2900
		11	3.1	10	60			
		14.5	4.0	9	58			
48	50-125	8.8	2.4	21.5	49	2.5	1.5	2900
		12.5	3.5	20	58			
		16.3	4.5	17.8	57			



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性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				m	Kw
49	50-125A	8	2.2	17	48	2.5	1.1	2900
		11	3.1	16	57			
		14.5	4.0	14	56			
50	50-160	8.8	2.4	33	45	2.5	3	2900
		12.5	3.5	32	52			
		16.3	4.5	30	51			
		3.8	1.1	8.5	45	2.5	0.75	1450
		6.3	1.8	8	52			
		7.5	2.1	7.5	51			
51	50-160A	8.2	2.3	29	44	2.5	2.2	2900
		11.7	3.3	28	51			
		15.2	4.2	26	50			
52	50-160B	7.3	2.0	23	43	2.5	1.5	2900
		10.4	2.9	22	50			
		13.5	3.8	20.5	49			
53	50-200	8.8	2.4	52	38	2.5	5.5	2900
		12.5	3.5	50	46			
		16.3	4.5	48	45			
		3.8	1.1	13.1	38	2.5	0.75	1450
		6.3	1.8	12.5	46			
		7.5	2.1	12	45			
54	50-200A	8.3	2.3	45.8	37	2.5	4	2900
		11.7	3.3	44	45			
		15.3	4.3	42	44			
		3.3	0.9	10	37	2.5	0.75	1450
		5.5	1.5	9.5	45			
		6.5	1.8	9	42			
55	50-200B	7.5	2.1	37	36	2.5	3	2900
		10.6	2.9	36	44			
		13.8	3.8	34	43			
56	50-250	8.8	2.4	82	29	2.5	11	2900
		12.5	3.5	80	40			
		16.3	4.5	77.5	38			
		3.8	1.1	20.5	29	2.5	1.5	1450
		6.3	1.8	20	40			
		7.5	2.1	19.5	38			
57	50-250A	8.2	2.3	71.5	28	2.5	7.5	2900
		11.6	3.2	70	38			
		15.2	4.2	68	36			
		3.4	0.9	16.4	28	2.5	1.1	1450
		5.6	1.6	16	38			
		6.7	1.9	15.6	36			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				Kw	r/min
58	50-250B	7.6	2.1	61.4	27	2.5	7.5	2900
		10.8	3.0	60	37			
		14	3.9	58	35			
		3.1	0.9	13.2	27	2.5	0.75	1450
		5.1	1.4	13	37			
		6.1	1.7	12.5	35			
59	50-250C	7.1	2.0	53.2	26	2.5	5.5	2900
		10	2.8	52	36			
		13.1	3.6	50.4	34			
60	50-100(I)	17.5	4.9	13.7	60	2.5	1.5	2900
		25	6.9	12.5	69			
		32.5	9.0	10.5	65			
61	50-100(I)A	15.6	4.3	11	58	2.5	1.1	2900
		22.3	6.2	10	67			
		29	8.1	8.4	63			
62	50-125(I)	17.5	4.9	21.5	60	2.5	3	2900
		25	6.9	20	68			
		32.5	9.0	18	67			
63	50-125(I)A	15.6	4.3	17	58	2.5	2.2	2900
		22.3	6.2	16	66			
		29	8.1	13.6	65			
64	50-160(I)	17.5	4.9	34.4	54	2.5	4	2900
		25	6.9	32	63			
		32.5	9.0	27.5	60			
		7.5	2.1	8.8	54	2.8	0.75	1450
		12.5	3.5	8	63			
		15	4.2	7.2	60			
65	50-160(I)A	16.4	4.6	30	54	2.5	3	2900
		23.4	6.5	28	62			
		30.4	8.4	24	59			
66	50-160(I)B	15	4.2	26	50	2.5	2.2	2900
		21.6	6.0	24	58			
		28	7.8	20.6	55			
67	50-200(I)	17.5	4.9	52.7	49	2.5	7.5	2900
		25	6.9	50	58			
		23.5	6.5	45.5	59			
		7.5	2.1	13.2	49	2.8	1.1	1450
		12.5	3.5	12.5	58			
		15	4.2	11.8	59			
68	50-200(I)A	16.4	4.6	46.6	48	2.5	5.5	2900
		23.5	6.5	44	57			
		30.5	8.5	40	58			
		6.8	1.9	10.7	48	2.8	0.75	1450
		11.3	3.1	10.1	57			
		13.5	3.8	9.6	58			



序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				Kw	r/min
69	50-200(I)B	15.2	4.2	40	46	2.5	4	2900
		21.8	6.1	38	55			
		28.3	7.9	34.5	56			
70	50-250(I)	17.5	4.9	82	39	2.5	15	2900
		25	6.9	80	50			
		32.5	9.0	76.5	52			
		7.5	2.1	21	39	2.8	2.2	1450
		12.5	3.5	20	50			
		15	4.2	19.4	52			
71	50-250(I)A	16.4	4.6	71.5	38	2.5	11	2900
		23.4	6.5	70	49			
		30.5	8.5	67	51			
		7	1.9	18.4	38	2.8	1.5	1450
		11.7	3.3	17.6	49			
		14.1	3.9	17	51			
72	50-250(I)B	15	4.2	61	36	2.5	7.5	2900
		21.6	6.0	60	47			
		28	7.8	57.4	48			
		6.1	1.7	14.1	36	2.8	1.1	1450
		10.2	2.8	13.4	47			
		12.3	3.4	13	48			
73	50-315(I)	17.5	4.9	128	30	2.5	30	2900
		25	6.9	125	44			
		32.5	9.0	122	40			
		7.5	2.1	32.3	30	2.8	4	1450
		12.5	3.5	32	44			
		15	4.2	31.7	40			
74	50-315(I)A	16.6	4.6	115	28	2.5	22	2900
		23.7	6.6	113	42			
		31	8.6	110	38			
		7	1.9	28.1	28	2.8	3	1450
		11.7	3.3	28	40			
		14	3.9	27.6	44			
75	50-315(I)B	15.7	4.4	103	27	2.5	18.5	2900
		22.5	6.3	101	39			
		29.2	8.1	98	37			
		6.1	1.7	21.2	27	2.8	3	1450
		10.1	2.8	21	39			
		12.1	3.4	20.8	37			
76	50-315(I)C	14.4	4.0	86	26	2.5	15	2900
		20.6	5.7	85	38			
		26.8	7.4	83	36			
77	65-100	17.5	4.9	13.7	62	3	1.5	2900
		25	6.9	12.5	69			
		32.5	9.0	10.5	68			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				m	Kw
78	65-100A	15.6	4.3	11	62	3	1.1	2900
		22.3	6.2	10	69			
		29	8.1	8.4	68			
79	65-125	17.5	4.9	21.5	60	3	3	2900
		25	6.9	20	68			
		32.5	9.0	18	67			
80	65-125A	15.6	4.3	17	58	3	2.2	2900
		22.3	6.2	16	66			
		29	8.1	14.4	65			
81	65-160	17.5	4.9	34.4	54	3	4	2900
		25	6.9	32	63			
		32.5	9.0	27.5	60			
		7.5	2.1	8.8	55	2.8	0.75	1450
		12.5	3.5	8	63			
		15	4.2	7.2	60			
82	65-160A	16.4	4.6	30	54	3	3	2900
		23.4	6.5	28	62			
		30.4	8.4	24	59			
83	65-160B	15	4.2	26	52	3	2.2	2900
		21.6	6.0	24	60			
		28	7.8	20.6	57			
84	65-200	17.5	4.9	52.7	49	3	7.5	2900
		25	6.9	50	58			
		32.5	9.0	45.5	55			
		7.5	2.1	13.2	49	2.8	1.1	1450
		12.5	3.5	12.5	58			
		15	4.2	11.8	55			
85	65-200A	16.4	4.6	46.4	48	3	5.5	2900
		23.5	6.5	44	57			
		30.5	8.5	40	54			
		6.8	1.9	10.7	48	2.8	0.75	1450
		11.3	3.1	10.1	57			
		13.5	3.8	9.6	54			
86	65-200B	15.2	4.2	40	46	3	4	2900
		21.8	6.1	38	55			
		28.3	7.9	34.5	52			
87	65-250	17.5	4.9	82	39	3	15	2900
		25	6.9	80	50			
		32.5	9.0	76.5	48			
		7.5	2.1	21	39	2.8	2.2	1450
		12.5	3.5	20	50			
		15	4.2	19.4	48			



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性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				m	Kw
88	65-250A	16.4	4.6	71.5	37	3	11	2900
		23.4	6.5	70	48			
		30.5	8.5	67	46			
		7	1.9	18.4	37	2.8	1.5	1450
		11.7	3.3	17.6	48			
		14.1	3.9	17	46			
89	65-250B	15	4.2	61	35	3	7.5	2900
		21.6	6.0	60	46			
		28	7.8	57.4	44			
		6.1	1.7	14.1	35	2.8	1.1	1450
		10.2	2.8	13.4	46			
		12.3	3.4	13	44			
90	65-315	17.5	4.9	127	32	3	30	2900
		25	6.9	125	40			
		32.5	9.0	122	42			
		7.5	2.1	32.3	32	2.8	4	1450
		12.5	3.5	32	40			
		15	4.2	31.7	42			
91	65-315A	16.6	4.6	115	30	3	22	2900
		23.7	6.6	113	38			
		31	8.6	110	40			
		7	1.9	28.1	30	2.8	3	1450
		11.7	3.3	28	38			
		14	3.9	27.6	40			
92	65-315B	15.7	4.4	103	29	3	18.5	2900
		22.5	6.3	101	37			
		29.2	8.1	98	39			
		6.1	1.7	21.2	29	2.8	3	1450
		10.1	2.8	21	37			
		12.1	3.4	20.8	39			
93	65-315C	14.4	4.0	86	28	3	15	2900
		20.6	5.7	85	36			
		26.8	7.4	83	38			
94	65-100(I)	35	9.7	13.8	67	3	3	2900
		50	13.9	12.5	73			
		65	18.1	10	70			
95	65-100(I)A	31.3	8.7	11	66	3	2.2	2900
		44.7	12.4	10	72			
		58	16.1	8	69			
96	65-125(I)	35	9.7	22	67	3	5.5	2900
		50	13.9	20	72.5			
		65	18.1	17	70			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				Kw	转速 Speed r/min
		m	%					
97	65-125(I)A	31.3	8.7	17.5	66	3	4	2900
		45	12.5	16	71			
		58	16.1	13.6	69			
98	65-160(I)	35	9.7	35	63	3	7.5	2900
		50	13.9	32	71			
		65	18.1	28	70			
		15	4.2	9	63	2.8	1.1	1450
		25	6.9	8	71			
		30	8.3	7.2	70			
99	65-160(I)A	32.7	9.1	30.6	62	3	5.5	2900
		46.7	13.0	28	70			
		61	16.9	24	69			
		13	3.6	6.7	62	2.8	0.75	1450
		21.6	6.0	6	70			
		25.9	7.2	5.4	69			
100	65-160(I)B	30.3	8.4	26	60	3	4	2900
		43.3	12.0	24	69			
		56.3	15.6	21	68			
101	65-200(I)	35	9.7	53.5	55	3	15	2900
		50	13.9	50	67			
		65	18.1	46	66			
		15	4.2	13.2	55	2.8	2.2	1450
		25	6.9	12.5	67			
		30	8.3	11.8	66			
102	65-200(I)A	32.8	9.1	47	54	3	11	2900
		47	13.1	44	66			
		61	16.9	40	64			
		14	3.9	11.5	54	2.8	1.5	1450
		23.3	6.5	10.9	66			
		27.9	7.8	10.2	64			
103	65-200(I)B	30.5	8.5	40.6	52	3	7.5	2900
		43.5	12.1	38	64			
		56.6	15.7	33.4	62			
104	65-250(I)	35	9.7	83	52	3	22	2900
		50	13.9	80	59			
		65	18.1	72	60			
		15	4.2	21	52	2.8	3	1450
		25	6.9	20	59			
		30	8.3	18.8	60			
105	65-250(I)A	32.5	9.0	73	50	3	18.5	2900
		46.7	13.0	70	57			
		61	16.9	63	58			
		13.3	3.7	16.6	50	2.8	2.2	1450
		26.6	7.4	15.8	57			
		27.9	7.8	14.8	58			



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性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				m	Kw
106	65-250(I)B	30	8.3	62	48	3	15	2900
		43.3	12.0	60	56			
		56	15.6	54	57			
		11.9	3.3	13.2	48	2.8	1.5	1450
		19.8	5.5	12.6	56			
		23.8	6.6	11.8	57			
107	65-315(I)	35	9.7	128	44	3	37	2900
		50	13.9	125	54			
		65	18.1	121	52			
		15	4.2	32.5	44	2.8	5.5	1450
		25	6.9	32	54			
		30	8.3	31.5	52			
108	65-315(I)A	32.5	9.0	112.6	43	3	30	2900
		46.5	12.9	110	53			
		60.5	16.8	106.4	51			
		14	3.9	28.3	43	2.8	4	1450
		23	6.4	27.9	53			
		28	7.8	27.4	51			
109	65-315(I)B	31	8.6	102.5	41	3	30	2900
		44.5	12.4	100	51			
		58	16.1	98	49			
		12.1	3.4	21.3	41	2.8	3	1450
		20.2	5.6	21	51			
		24.3	6.8	20.6	49			
110	65-315(I)C	29	8.1	87	39	3	22	2900
		41	11.4	85	49			
		53.6	14.9	83	47			
111	80-100	35	9.7	13.8	67	4	3	2900
		50	13.9	12.5	73			
		65	18.1	10	70			
112	80-100A	31.3	8.7	11	66	4	2.2	2900
		44.7	12.4	10	72			
		58	16.1	8	69			
113	80-125	35	9.7	22	67	4	5.5	2900
		50	13.9	20	72			
		65	18.1	17	70			
		15	4.2	5.6	67	2.8	0.75	1450
		25	6.9	5	72			
		30	8.3	4.5	70			
114	80-125A	31.3	8.7	17.5	66	4	4	2900
		45	12.5	16	71			
		58	16.1	13.6	69			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				m	Kw
115	80-160	35	9.7	35	63	4	7.5	2900
		50	13.9	32	71			
		65	18.1	28	70			
		15	4.2	9	63	2.8	1.1	1450
		25	6.9	8	71			
		30	8.3	7.2	70			
116	80-160A	32.7	9.1	30.6	62	4	5.5	2900
		46.7	13.0	28	70			
		61	16.9	24	69			
		13	3.6	6.7	62	2.8	0.75	1450
		21.6	6.0	6	70			
		25.9	7.2	5.4	69			
117	80-160B	30.3	8.4	26	60	4	4	2900
		43.3	12.0	24	68			
		56.3	15.6	21	67			
118	80-200	35	9.7	53.5	55	4	15	2900
		50	13.9	50	67			
		65	18.1	46	65			
		15	4.2	13.2	55	2.8	2.2	1450
		25	6.9	12.5	67			
		30	8.3	11.8	65			
119	80-200A	32.8	9.1	47	54	4	11	2900
		47	13.1	44	66			
		61	16.9	40	64			
		14	3.9	11.5	54	2.8	1.5	1450
		23.3	6.5	10.9	66			
		27.9	7.8	10.2	64			
120	80-200B	30.5	8.5	40.6	53	4	7.5	2900
		43.5	12.1	38	65			
		56.6	15.7	33.4	63			
121	80-250	35	9.7	83	52	4	22	2900
		50	13.9	80	60			
		65	18.1	72	58			
		15	4.2	21	52	2.8	3	1450
		25	6.9	20	60			
		30	8.3	18.8	58			
122	80-250A	32.5	9.0	73	50	4	18.5	2900
		46.7	13.0	70	59			
		61	16.9	63	57			
		13.3	3.7	16.6	50	2.8	2.2	1450
		22.2	6.2	15.8	59			
		26.6	7.4	14.8	57			



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性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				m	Kw
123	80-250B	30	8.3	62	49	4	15	2900
		43.3	12.0	60	58			
		56	15.6	54	56			
		11.9	3.3	13.2	49	2.8	1.5	1450
		19.8	5.5	12.6	58			
		23.8	6.6	11.8	56			
124	80-315	35	9.7	128	43	4	37	2900
		50	13.9	125	54			
		65	18.1	122	52			
		15	4.2	32.5	43	2.8	5.5	1450
		25	6.9	32	54			
		30	8.3	31.5	52			
125	80-315A	32.5	9.0	112.6	42	4	30	2900
		46.5	12.9	110	53			
		60.5	16.8	107.4	51			
		14	3.9	28.3	42	2.8	4	1450
		23	6.4	27.9	53			
		28	7.8	27.4	51			
126	80-315B	31	8.6	102.5	40	4	30	2900
		44.5	12.4	100	51			
		58	16.1	98	49			
		12.1	3.4	21.3	40	2.8	3	1450
		20.2	5.6	21	51			
		24.3	6.8	20.6	49			
127	80-315C	41	11.4	88	38	4	22	2900
		41	11.4	85	50			
		53.6	14.9	83	47			
128	80-350	35	9.7	156	58	4	55	2900
		50	13.9	150	65			
		60	16.7	140	62			
129	80-350A	31	8.6	148	56	4	45	2900
		44	12.2	142	63			
		53	14.7	135	60			
130	80-350B	28	7.8	142	54	4	37	2900
		40	11.1	135	61			
		46	12.8	128	58			
131	80-100(I)	70	19.4	13.6	66	4	5.5	2900
		100	27.8	12.5	76			
		130	36.1	11	75			
132	80-100(I)A	62.6	17.4	11	64	4	4	2900
		89	24.7	10	74			
		116	32.2	8.8	72			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				m	Kw
133	80-125(I)	70	19.4	23.5	70	4	11	2900
		100	27.8	20	76			
		130	36.1	14	72			
		30	8.3	6	70	2.8	1.1	1450
		50	13.9	5	76			
		60	16.7	4	72			
134	80-125(I)A	62.6	17.4	19	68	4	7.5	2900
		89	24.7	16	74			
		116	32.2	11	70			
		26.8	7.4	4.8	68	2.8	1.1	1450
		44.6	12.4	4	74			
		53.5	14.9	3.2	70			
135	80-160(I)	70	19.4	36.5	70	4	15	2900
		100	27.8	32	76			
		130	36.1	24	65			
		30	8.3	9.2	70	3	2.2	1450
		50	13.9	8	76			
		60	16.7	6.8	68			
136	80-160(I)A	65.4	18.2	32	68	4	11	2900
		93.5	26.0	28	74			
		121.6	33.8	21	68			
		26.7	7.4	7.3	68	3	1.5	1450
		44.5	12.4	6.3	74			
		53.4	14.8	5.4	68			
137	80-160(I)B	60.6	16.8	26	66	4	7.5	2900
		86.6	24.1	24	72			
		112.5	31.3	18	66			
138	80-200(I)	70	19.4	54	65	4	22	2900
		100	27.8	50	74			
		130	36.1	42	73			
		30	8.3	13.5	65	3	3	1450
		50	13.9	12.5	74			
		60	16.7	11.8	73			
139	80-200(I)A	65.4	18.2	47.5	63	4	18.5	2900
		93.5	26.0	44	72			
		121.6	33.8	37	70			
		26.7	7.4	10.7	63	3	2.2	1450
		44.6	12.4	9.9	72			
		53.5	14.9	9.4	70			
140	80-200(I)B	61	16.9	41	60	4	15	2900
		87	24.2	38	70			
		113	31.4	32	67			



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性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				Kw	r/min
141	80-250(I)	70	19.4	87	62	4	37	2900
		100	27.8	80	69			
		130	36.1	68	68			
		30	8.3	21.3	62	3	5.5	1450
		50	13.9	20	69			
		60	16.7	19	68			
142	80-250(I)A	65.4	18.2	76	61	4	30	2900
		93.5	26.0	70	68			
		121.6	33.8	59.5	67			
		28	7.8	18.6	61	3	4	1450
		46.7	13.0	17.4	68			
		56	15.6	16.6	67			
143	80-250(I)B	61	16.9	65	59	4	30	2900
		87	24.2	60	66			
		113	31.4	51	65			
		24.2	6.7	13.9	59	3	3	1450
		40	11.1	13.1	66			
		48.5	13.5	12.4	65			
144	80-315(I)	70	19.4	132	55	4	75	2900
		100	27.8	125	66			
		130	36.1	114	67			
		30	8.3	34	55	3	11	1450
		50	13.9	32	66			
		60	16.7	30	67			
145	80-315(I)A	66.5	18.5	119	53	4	55	2900
		95	26.4	113	64			
		123.6	34.3	103	65			
		28	7.8	29.6	53	3	7.5	1450
		46.7	13.0	27.9	64			
		56	15.6	26.1	65			
146	80-315(I)B	63	17.5	106.6	50	4	45	2900
		90	25.0	101	61			
		117	32.5	92	62			
		24.3	6.8	22.3	50	3	5.5	1450
		40.5	11.3	21	61			
		48.6	13.5	19.1	62			
147	80-315(I)C	58	16.1	90	48	4	37	2900
		82	22.8	85	59			
		107	29.7	76	60			
148	100-100	70	19.4	13.6	66	4.5	5.5	2900
		100	27.8	12.5	76			
		130	36.1	11	75			
149	100-100A	62.6	17.4	11	64	4.5	4	2900
		89	24.7	10	74			
		116	32.2	8.8	73			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				m	Kw
150	100-125	70	19.4	23.5	70	4.5	11	2900
		100	27.8	20	76			
		130	36.1	14	65			
		30	8.3	6	70	3	1.1	1450
		50	13.9	5	76			
		60	16.7	4	65			
151	100-125A	62.6	17.4	19	68	4.5	7.5	2900
		89	24.7	16	74			
		116	32.2	11	63			
		26.8	7.4	4.8	68	3	1.1	1450
		44.6	12.4	4	74			
		53.5	14.9	3.2	64			
152	100-160	70	19.4	36.5	70	4.5	15	2900
		100	27.8	32	76			
		130	36.1	24	65			
		30	8.3	9.2	70	3	2.2	1450
		50	13.9	8	76			
		60	16.7	6.8	65			
153	100-160A	65.4	18.2	32	68	4.5	11	2900
		93.5	26.0	28	74			
		121.6	33.8	21	63			
		26.7	7.4	7.3	68	3	1.5	1450
		44.5	12.4	6.3	74			
		53.4	14.8	5.4	63			
154	100-160B	60.6	16.8	27	65	4.5	7.5	2900
		86.6	24.1	24	71			
		112.5	31.3	18	60			
155	100-200	70	19.4	54	65	4.5	22	2900
		100	27.8	50	74			
		130	36.1	42	73			
		30	8.3	13.5	64	3	3	1450
		50	13.9	12.5	74			
		60	16.7	11.8	73			
156	100-200A	65.4	18.2	47.5	62	4.5	18.5	2900
		93.5	26.0	44	73			
		121.6	33.8	37	71			
		24.7	6.9	10.7	62	3	2.2	1450
		44.6	12.4	9.9	73			
		53.5	14.9	9.4	71			
157	100-200B	61	16.9	41	66	4.5	15	2900
		87	24.2	38	71			
		113	31.4	32	69			



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性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				Kw	r/min
158	100-250	70	19.4	87	62	4.5	37	2900
		100	27.8	80	69			
		130	36.1	68	68			
		30	8.3	21.3	62	3	5.5	1450
		50	13.9	20	69			
		60	16.7	19	68			
159	100-250A	65.4	18.2	76	61	4.5	30	2900
		93.5	26.0	70	68			
		121.6	33.8	59.5	67			
		28	7.8	18.6	61	3	4	1450
		46.7	13.0	17.4	68			
		56	15.6	16.6	67			
160	100-250B	61	16.9	65	58	4.5	22	2900
		87	24.2	60	66			
		113	31.4	51	64			
		24.2	6.7	13.9	58	3	3	1450
		40.2	11.2	13.1	66			
		48.5	13.5	12.4	64			
161	100-315	70	19.4	132	55	4.5	75	2900
		100	27.8	125	66			
		130	36.1	114	67			
		30	8.3	34	55	3	11	1450
		50	13.9	32	66			
		60	16.7	30	67			
162	100-315A	66.5	18.5	119	53	4.5	55	2900
		95	26.4	113	64			
		123.6	34.3	103	65			
		28	7.8	29.6	53	3	7.5	1450
		46.7	13.0	27.9	64			
		56	15.6	26.1	65			
163	100-315B	63	17.5	106.6	51	4.5	45	2900
		90	25.0	101	62			
		117	32.5	92	63			
		24.3	6.8	22.3	51	3	5.5	1450
		40.5	11.3	21	62			
		48.6	13.5	19.1	63			
164	100-315C	58	16.1	90	48	4.5	37	2900
		82	22.8	85	60			
		107	29.7	76	61			
165	100-350	70	19.4	156	60	4.5	90	2900
		100	27.8	150	67			
		130	36.1	148	65			
166	100-350A	64	17.8	148	58	4.5	75	2900
		88	24.4	142	65			
		113	31.4	134	63			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				Kw	r/min
167	100-350B	56	15.6	140	55	4.5	75	2900
		80	22.2	135	62			
		104	28.9	125	60			
168	100-100(I)	96	26.7	14	64	4.5	11	2900
		160	44.4	12.5	73			
		192	53.3	10	70			
169	100-125(I)	96	26.7	24	62	4.5	15	2900
		160	44.4	20	74			
		192	53.3	14	69			
		60	16.7	6.5	62	3	2.2	1450
		100	27.8	5	74			
		120	33.3	4	68			
170	100-125(I) A	84	23.3	20	60	4.5	11	2900
		140	38.9	17	72			
		168	46.7	12	66			
		52.2	14.5	4.3	60	3	1.5	1450
		87.1	24.2	3.8	72			
		104	28.9	3.4	66			
171	100-160(I)	96	26.7	36	69	4.5	22	2900
		160	44.4	32	79			
		192	53.3	28	75			
		60	16.7	10	69	3	4	1450
		100	27.8	8	79			
		120	33.3	7	75			
172	100-160(I) A	84	23.3	32	66	4.5	18.5	2900
		140	38.9	28	76			
		168	46.7	23.5	72			
		52.2	14.5	7.3	66	3	3	1450
		87.1	24.2	6.3	76			
		104	28.9	5.4	72			
173	100-160(I) B	81	22.5	26.5	64	4.5	15	2900
		135	37.5	24	72			
		162	45.0	19	68			
174	100-200(I)	96	26.7	53	69	4.5	37	2900
		160	44.4	50	79			
		192	53.3	45	78			
		60	16.7	14	69	3	5.5	1450
		100	27.8	12.5	79			
		120	33.3	11	78			
175	100-200(I) A	84	23.3	48	64	4.5	30	2900
		140	38.9	45	74			
		168	46.7	40	73			
		51.7	14.4	10.8	64	3	4	1450
		86.1	23.9	9.3	74			
		103	28.6	8.2	73			



性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				Kw	r/min
176	100-200(I) B	60	16.7	43	62	4.5	22	2900
		100	27.8	40	72			
		120	33.3	36	70			
177	100-250(I)	96	26.7	83	65	4.5	55	2900
		160	44.4	80	77			
		192	53.3	72	74			
		60	16.7	21.5	65	3	11	1450
		100	27.8	20	77			
		120	33.3	18.5	74			
178	100-250(I) A	84	23.3	75	60	4.5	45	2900
		140	38.9	72	72			
		168	46.7	65	60			
		56	15.6	18.7	60	3	7.5	1450
		93.3	25.9	17.4	72			
		112	31.1	16.1	60			
179	100-250(I) B	60	16.7	68	58	4.5	37	2900
		100	27.8	65	70			
		120	33.3	58	58			
		52.2	14.5	16	58	3	5.5	1450
		87	24.2	15	70			
		104	28.9	14	58			
180	100-315(I)	96	26.7	133	65	4.5	90	2900
		160	44.4	125	72			
		192	53.3	119	68			
		60	16.7	33.5	65	3	15	1450
		100	27.8	32	72			
		120	33.3	30.5	68			
181	100-315(I) A	90	25.0	117	63	4.5	75	2900
		150	41.7	110	70			
		180	50.0	104.6	65			
		55	15.3	28	63	3	11	1450
		91	25.3	27	70			
		110	30.6	25.7	65			
182	100-315(I) B	86	23.9	106.4	60	4.5	75	2900
		143	39.7	100	68			
		172	47.8	95.2	62			
		47	13.1	21	60	3	7.5	1450
		79	21.9	20	68			
		95	26.4	19	62			
183	100-315(I) C	80.5	22.4	96	58	5	55	2900
		134	37.2	88	66			
		161	44.7	86	60			
184	100-400(I)	70	19.4	54	48	5	30	1450
		100	27.8	50	60			
		130	36.1	42	54			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				m	Kw
185	100-400(I) A	66.5	18.5	47.5	47	5	22	1450
		94	26.1	44	59			
		123.6	34.3	37	52			
186	100-400(I) B	63	17.5	41	45	5	18.5	1450
		90	25.0	38	57			
		117	32.5	32	50			
187	100-400(I) C	58	16.1	27	43	5	15	1450
		82	22.8	30	55			
		107	29.7	24	48			
188	125-100	96	26.7	13	75	5	11	2900
		160	44.4	12.5	82			
		192	53.3	12	78			
189	125-100A	86	23.9	10.4	72	5	7.5	2900
		143	39.7	10	79			
		172	47.8	9.6	75			
190	125-125	96	26.7	22.6	73	5	15	2900
		160	44.4	20	80			
		192	53.3	17	75			
		48	13.3	5.5	73	3	2.2	1450
		80	22.2	5	80			
		96	26.7	4.3	75			
191	125-125A	86	23.9	18	70	5	11	2900
		143	39.7	16	77			
		172	47.8	13.6	72			
		43	11.9	4.4	70	3	1.5	1450
		71.5	19.9	4	77			
		86	23.9	3.4	72			
192	125-160	96	26.7	36	70	5	22	2900
		160	44.4	32	78			
		192	53.3	28	73			
		48	13.3	9	70	3	3	1450
		80	22.2	8	78			
		96	26.7	7	73			
193	125-160A	90	25.0	31.5	68	5	18.5	2900
		150	41.7	28	76			
		180	50.0	24.5	70			
		42	11.7	6.8	68	3	2.2	1450
		69.3	19.3	6	76			
		83	23.1	5.3	70			
194	125-160B	83	23.1	27	65	5	15	2900
		138	38.3	24	73			
		166	46.1	21	68			



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性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				Kw	r/min
195	125-200	96	26.7	55	68	5	37	2900
		160	44.4	50	77			
		192	53.3	46	72			
		48	13.3	13.8	68	3	5.5	1450
		80	22.2	12.5	77			
		96	26.7	11.5	72			
196	125-200A	90	25.0	48.4	65	5	30	2900
		150	41.7	44	75			
		180	50.0	40.5	70			
		45	12.5	12	65	3	4	145
		75	20.8	11	75			
		90	25.0	10	70			
197	125-200B	83	23.1	41.3	62	5	22	2900
		138	38.3	37.5	73			
		166	46.1	34.5	67			
198	125-250	96	26.7	87	66	5	55	2900
		160	44.4	80	75			
		192	53.3	73	70			
		48	13.3	22	66	3	7.5	1450
		80	22.2	20	75			
		96	26.7	18.3	70			
199	125-250A	90	25.0	76	65	5	45	2900
		150	41.7	70	74			
		180	50.0	64	68			
		45	12.5	19	65	3	7.5	1450
		75	20.8	17.5	74			
		90	25.0	16	68			
200	125-250B	83	23.1	65	63	5	37	2900
		138	38.3	60	72			
		166	46.1	55	66			
		41.5	11.5	16.3	63	3	5.5	1450
		69	19.2	15	72			
		83	23.1	13.8	66			
201	125-315	96	26.7	133	62	5	90	2900
		160	44.4	125	70			
		192	53.3	119	68			
		48	13.3	33.3	62	3	15	1450
		80	22.2	32	70			
		96	26.7	29.8	68			
202	125-315A	90	25.0	117	60	5	75	2900
		150	41.7	110	68			
		180	50.0	104.6	66			
		45	12.5	29.3	60	3	11	1450
		75	20.8	27.5	68			
		90	25.0	26	66			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				Kw	r/min
203	125-315B	86	23.9	106.4	58	5	75	2900
		143	39.7	100	67			
		172	47.8	95.2	65			
		43	11.9	26.5	58	3	11	1450
		72	20.0	25	67			
		86	23.9	23.8	65			
204	125-315C	80.5	22.4	96	56	5	55	2900
		134	37.2	88	65			
		161	44.7	86	62			
205	125-350	96	26.7	162	56	5	110	2900
		160	44.4	150	69			
		192	53.3	125	68			
206	125-350A	90	25.0	154	55	5	90	2900
		150	41.7	142	68			
		180	50.0	117	67			
207	125-350B	86	23.9	147	54	5	75	2900
		143	39.7	135	66			
		172	47.8	110	66			
208	125-400	70	19.4	54	55	5	30	1450
		100	27.8	50	68			
		130	36.1	43	66			
209	125-400A	66.5	18.5	448	54	5	22	1450
		94	26.1	44	67			
		123.6	34.3	36	65			
210	150-125	96	26.7	22.6	66	5	15	2900
		160	44.4	20	76			
		192	53.3	17	75			
211	150-125A	90	25.0	18	64	5	11	2900
		150	41.7	16	74			
		180	50.0	13.6	72			
212	150-160	96	26.7	36	66	5	22	2900
		160	44.4	32	75			
		192	53.3	27	73			
213	150-160A	90	25.0	32	64	5	18.5	2900
		150	41.7	28	73			
		180	50.0	23.5	70			
214	150-160B	84	23.3	27	61	5	15	2900
		140	38.9	24	72			
		168	46.7	21	68			
215	150-200	140	38.9	13.8	68	5	15	1450
		200	55.6	12.5	78			
		260	72.2	10.6	76			
216	150-200A	125	34.7	11	66	5	11	1450
		179	49.7	10	76			
		232.5	64.6	8.5	74			



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性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				Kw	r/min
217	150-200B	111.7	31.0	9.2	64	5	7.5	1450
		160	44.4	8	72			
		207	57.5	6.8	70			
218	150-250	140	38.9	21.8	73	5	18.5	1450
		200	55.6	20	79			
		260	72.2	17	77			
219	150-250A	129	35.8	18.5	72	5	15	1450
		184.4	51.2	17	78			
		240	66.7	14.4	76			
220	150-250B	117	32.5	15.2	70	5	11	1450
		167	46.4	14	76			
		217.5	60.4	12	73			
221	150-315	140	38.9	33.8	70	5	30	1450
		200	55.6	32	78			
		260	72.2	28	73			
222	150-315A	131	36.4	29.5	69	5	22	1450
		187	51.9	28	77			
		243	67.5	24.5	71			
223	150-315B	121	33.6	25	66	5	18.5	1450
		173	48.1	24	74			
		225	62.5	21	69			
224	150-400	140	38.9	53	68	5	45	1450
		200	55.6	50	75			
		260	72.2	44	71			
225	150-400A	131	36.4	46.6	67	5	37	1450
		187	51.9	44	74			
		243	67.5	38.3	70			
226	150-400B	122	33.9	40	65	5	30	1450
		174	48.3	38	72			
		226.5	62.9	33	68			
227	150-400C	112	31.1	34	62	5	22	1450
		160	44.4	32	70			
		208	57.8	28	66			
228	150-500	140	38.9	83	73	5	90	1450
		200	55.6	80	82			
		240	66.7	75	80			
229	150-500A	127	35.3	73	71	5	75	1450
		182	50.6	70.5	80			
		218	60.6	66	78			
230	150-500B	116	32.2	64.5	68	5	55	1450
		166	46.1	62	78			
		199	55.3	58	75			
231	150-500C	106	29.4	59	65	5	45	1450
		151	41.9	56	76			
		178	49.4	52	72			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				Kw	r/min
232	150-200(I)	120	33.3	54	68	5	45	2900
		200	55.6	50	78			
		240	66.7	44	76			
233	150-200(I) A	112	31.1	48	66	5	37	2900
		187	51.9	44	76			
		224	62.2	37	74			
234	150-200(I) B	104	28.9	42	63	5	30	2900
		173	48.1	38	74			
		208	57.8	31	72			
235	150-250(I)	120	33.3	87	65	5	75	2900
		200	55.6	80	76			
		240	66.7	72	74			
236	150-250(I) A	112	31.1	76	64	5	55	2900
		187	51.9	70	75			
		224	62.2	63	73			
237	150-250(I) B	104	28.9	65	63	5	45	2900
		173	48.1	60	74			
		208	57.8	54	72			
238	150-315(I)	120	33.3	133	58	5	110	2900
		200	55.6	125	73			
		240	66.7	120	75			
239	150-315(I) A	112	31.1	116	57	5	90	2900
		187	51.9	110	72			
		224	62.2	105	74			
240	150-315(I) B	104	28.9	100	55	5	75	2900
		173	48.1	95	70			
		208	57.8	91	72			
241	150-350(I)	112	31.1	160	76	5	110	2900
		160	44.4	150	80			
		192	53.3	138	79			
242	150-350(I) A	105	29.2	152	74	5	90	2900
		150	41.7	142	78			
		180	50.0	130	76			
243	150-350(I) B	98	27.2	110	71	5	75	2900
		140	38.9	101	76			
		168	46.7	90	74			
244	200-200	140	38.9	13.8	68	5.5	15	1450
		200	55.6	12.5	78			
		260	72.2	10.6	76			
245	200-200A	125	34.7	11	66	5.5	11	1450
		179	49.7	10	76			
		232.5	64.6	8.5	74			
246	200-250	140	38.9	21.8	66	5.5	18.5	1450
		200	55.6	20	77			
		260	72.2	17	74			



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性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				Kw	r/min
247	200-250A	129	35.8	18.5	63	5.5	15	1450
		184.4	51.2	17	74			
		240	66.7	14.4	71			
248	200-250B	117	32.5	15.2	66	5.5	11	1450
		167	46.4	14	71			
		217.5	60.4	12	67			
249	200-315	140	38.9	33.8	65	5.5	30	1450
		200	55.6	32	78			
		260	72.2	28	72			
250	200-315A	131	36.4	29.5	64	5.5	22	1450
		187	51.9	27	77			
		243	67.5	24.5	70			
251	200-315B	121	33.6	25	62	5.5	18.5	1450
		173	48.1	24	75			
		225	62.5	21	68			
252	200-400	140	38.9	53	68	5.5	45	1450
		200	55.6	50	75			
		260	72.2	44	71			
253	200-400A	131	36.4	46.6	67	5.5	37	1450
		187	51.9	44	74			
		243	67.5	38.3	70			
254	200-400B	122	33.9	40	65	5.5	30	1450
		174	48.3	38	72			
		226.5	62.9	33	67			
255	200-400C	112	31.1	34	62	5.5	22	1450
		160	44.4	32	70			
		208	57.8	28	65			
256	200-500	140	38.9	83	58	5.5	90	1450
		200	55.6	80	65			
		240	66.7	75	60			
257	200-500A	127	35.3	73	55	5.5	75	1450
		182	50.6	70.5	64			
		218	60.6	66	58			
258	200-500B	116	32.2	64.5	53	5.5	55	1450
		166	46.1	62	62			
		199	55.3	58	56			
259	200-200(I)	280	77.8	13.4	70	5.5	22	1450
		400	111.1	12.5	80			
		520	144.4	10.5	79			
260	200-200(I) A	250	69.4	10.7	68	5.5	18.5	1450
		358	99.4	10	78			
		465	129.2	8.5	77			
261	200-200(II)	210	58.3	13.4	78	4	18.5	1450
		300	83.3	12.5	77			
		360	100.0	10.5	75			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				m	Kw
262	200-200(II)A	196	54.4	10.3	67	4	15	1450
		280	77.8	10	76			
		336	93.3	8.5	74			
263	200-250(I)	280	77.8	22.2	75	5.5	30	1450
		400	111.1	20	80			
		520	144.4	14	72			
264	200-250(I)A	250	69.4	18	73	5.5	22	1450
		358	99.4	16	78			
		465	129.2	11.2	70			
265	200-250(I)B	226	62.8	14.4	70	5.5	18.5	1450
		322	89.4	13	75			
		419	116.4	7.3	67			
266	200-250(II)	210	58.3	22.2	65	4	22	1450
		300	83.3	20	78			
		360	100.0	14	75			
267	200-250(II)A	196	54.4	18	64	4	18.5	1450
		280	77.8	16	77			
		336	93.3	11.2	74			
268	200-250(II)B	182	50.6	14.6	63	4	15	1450
		262	72.8	13	76			
		312	86.7	9	72			
269	200-315(I)	280	77.8	36	73	5.5	55	1450
		400	111.1	32	80			
		520	144.4	26	75			
270	200-315(I)A	262	72.8	31.5	72	5.5	45	1450
		374	103.9	28	79			
		486	135.0	23	74			
271	200-315(I)B	242	67.2	27	70	5.5	37	1450
		346	96.1	24	78			
		450	125.0	19.5	72			
272	200-315(II)	210	58.3	36	68	4	45	1450
		300	83.3	32	78			
		360	100.0	26	76			
273	200-315(II)A	196	54.4	31.5	67	4	37	1450
		280	77.8	28	77			
		336	93.3	23	75			
274	200-315(II)B	182	50.6	27	66	4	30	1450
		262	72.8	24	76			
		312	86.7	19.5	74			
275	200-400(I)	280	77.8	54.5	75	5.5	75	1450
		400	111.1	50	81			
		520	144.4	39	77			
276	200-400(I)A	262	72.8	48	74	5.5	75	1450
		374	103.9	44	80			
		486	135.0	34	76			



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性能参数表Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				Kw	r/min
277	200-400(I) B	242	67.2	41.4	72	5.5	55	1450
		346	96.1	38	78			
		450	125.0	29.6	74			
278	200-400(I) C	224	62.2	34.9	70	5.5	45	1450
		320	88.9	32	76			
		416	115.6	25	71			
279	200-400(II)	210	58.3	54.5	65	4	75	1450
		300	83.3	50	75			
		360	100.0	39	72			
280	200-400(II) A	196	54.4	48	64	4	55	1450
		280	77.8	44	74			
		336	93.3	34	71			
281	200-400(II) B	182	50.6	41.4	63	4	45	1450
		262	72.8	38	73			
		312	86.7	29.6	70			
282	200-400(II) C	171	47.5	34.9	62	4	37	1450
		245	68.1	32	71			
		294	81.7	25	69			
283	200-500(I)	280	77.8	85	73	5.5	132	1450
		400	111.1	80	77			
		520	144.4	70	76			
284	200-500(I) A	262	72.8	74.4	72	5.5	110	1450
		374	103.9	70	75			
		486	135.0	61.2	73			
285	200-500(I) B	242	67.2	63.8	69	5.5	90	1450
		346	96.1	60	74			
		450	125.0	52.5	70			
286	200-500(I) C	224	62.2	53.2	67	5.5	75	1450
		320	88.9	50	72			
		416	115.6	43.8	68			
287	200-500(II)	210	58.3	85	64	4.5	110	1450
		300	83.3	80	70			
		360	100.0	73	68			
288	200-500(II) A	196	54.4	74	62	4.5	90	1450
		280	77.8	70	68			
		336	93.3	64	65			
289	200-500(II) B	182	50.6	64	61	4.5	75	1450
		262	72.8	60	66			
		312	86.7	54	62			
290	250-250	350	97.2	21.8	78	5.5	45	1450
		550	152.8	20	82			
		600	166.7	18.1	81			
291	250-250A	300	83.3	18.3	76	5.5	37	1450
		500	138.9	17	80			
		600	166.7	14	79			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				Kw	r/min
292	250-250B	350	97.2	15.6	74	5.5	30	1450
		450	125.0	14	78			
		540	150.0	10.5	72			
293	250-315	350	97.2	35	76	5.5	75	1450
		550	152.8	32	80			
		600	166.7	28	78			
294	250-315A	350	97.2	31.5	74	5.5	55	1450
		500	138.9	28	78			
		600	166.7	24	77			
295	250-315B	350	97.2	26.5	70	5.5	45	1450
		450	125.0	24	74			
		540	150.0	20	72			
296	250-400	350	97.2	54.5	68	5.5	110	1450
		550	152.8	50	72			
		600	166.7	41.5	71			
297	250-400A	250	69.4	47.5	67	5.5	90	1450
		500	138.9	44	72			
		564	156.7	36.5	70			
298	250-400B	232	64.4	41	66	5.5	75	1450
		460	127.8	38	71			
		524	145.6	31.5	69			
299	250-400C	224	62.2	33	64	5.5	55	1450
		429	119.2	31	69			
		514	142.8	28	62			
300	250-500	385	106.9	87	74	5.5	185	1450
		550	152.8	80	78			
		660	183.3	68	75			
301	250-500A	357	99.2	76.1	74	5.5	160	1450
		510	141.7	70	80			
		612	170.0	59.5	76			
302	250-500B	329	91.4	65.2	71	5.5	132	1450
		470	130.6	60	75			
		564	156.7	51	72			
303	250-500C	301	83.6	54.3	70	5.5	110	1450
		430	119.4	50	74			
		516	143.3	42.5	71			
304	300-250	540	150.0	22.5	76	6	55	1450
		720	200.0	20	82			
		900	250.0	17	78			
305	300-250A	450	125.0	19.5	76	6	45	1450
		600	166.7	17	82			
		720	200.0	14	78			
306	300-315	540	150.0	35	76	6	90	1450
		720	200.0	32	82			
		900	250.0	28	78			



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性能参数表Performance Parameter

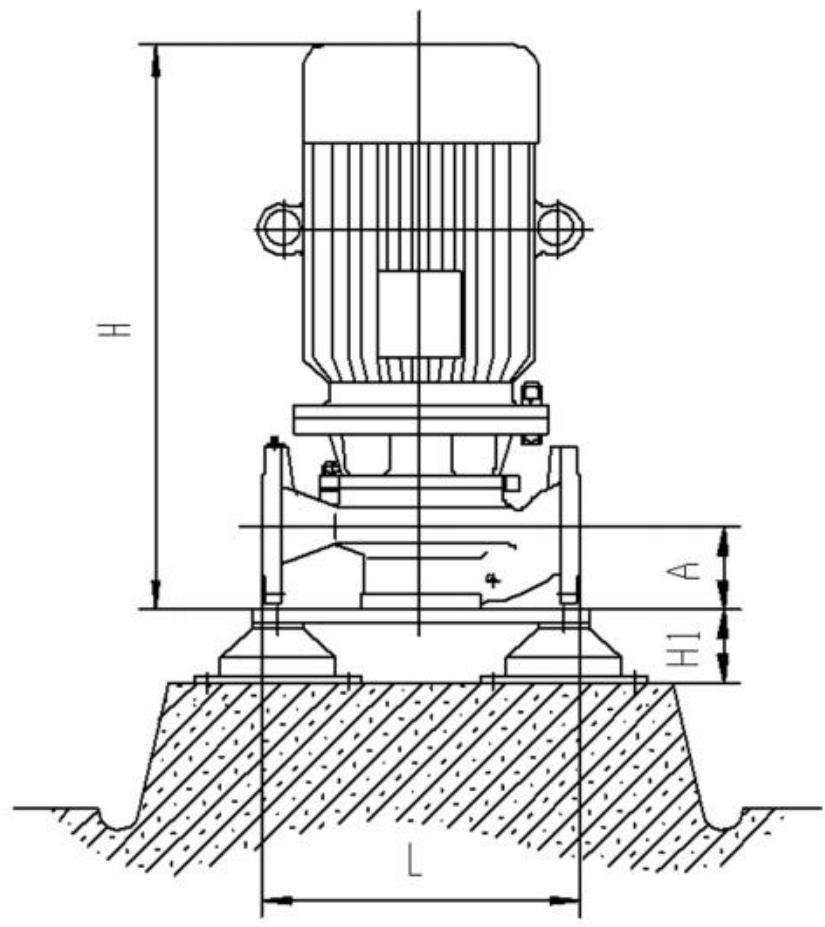
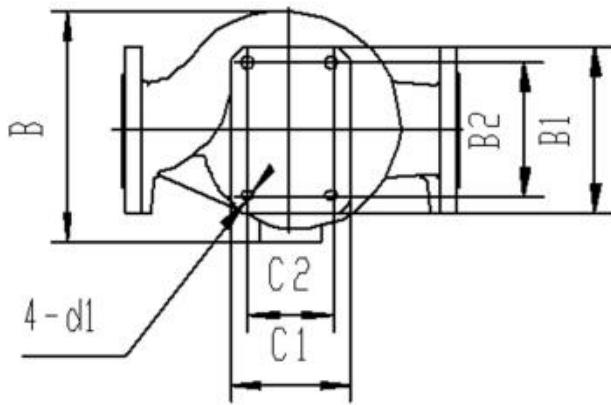
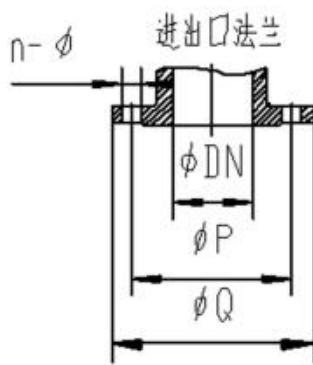
序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机Motor	
		m³/h	L/s				Kw	r/min
307	300-315A	460	127.8	31.5	74	6	75	1450
		637	176.9	28	80			
		791	219.7	24	75			
308	300-315B	423	117.5	26.5	72	6	55	1450
		563	156.4	24	78			
		728	202.2	20	72			
309	300-400	500	138.9	54	74	5.5	132	1450
		720	200.0	50	85			
		900	250.0	42	78			
310	300-400A	460	127.8	47	72	5.5	110	1450
		662	183.9	44	83			
		791	219.7	37	75			
311	300-400B	423	117.5	41	70	5.5	90	1450
		609	169.2	38	81			
		728	202.2	32	72			
312	300-400C	373	103.6	33	68	5.5	75	1450
		536	148.9	31	80			
		641	178.1	28	70			
313	300-500	540	150.0	85	69	5.5	250	1450
		720	200.0	80	80			
		900	250.0	70	76			
314	300-500A	506	140.6	74.4	67	5.5	200	1450
		670	186.1	70	79			
		720	200.0	61.2	74			
315	300-500B	468	130.0	63.8	65	5.5	160	1450
		620	172.2	60	78			
		667	185.3	52.5	72			
316	300-500C	425	118.1	63.2	64	5.5	110	1450
		580	161.1	50	77			
		605	168.1	43.8	70			
317	350-250	720	200.0	24	78	5.5	90	1450
		1200	333.3	20	82			
		1440	400.0	17	80			
318	350-250A	650	180.6	19.5	76	5.5	75	1450
		1100	305.6	17	80			
		1300	361.1	13.5	78			
319	350-315	720	200.0	36	77	5.5	160	1450
		1200	333.3	32	81			
		1440	400.0	28	78			
320	350-315A	670	186.1	31	76	5.5	132	1450
		1120	311.1	28	80			
		1340	372.2	24	75			
321	350-315B	625	173.6	27	75	5.5	110	1450
		1040	288.9	24	79			
		1250	347.2	20	74			

性能参数表 Performance Parameter

序号 No	型号 Model	流量 Flow Rate		扬程 Head	效率 Eff	必需气蚀余量 NPSH	电动机 Motor	
		m³/h	L/s				m	Kw
322	350-400	720	200.0	55	72	5.5	250	1450
		1200	333.3	50	80			
		1440	400.0	45	78			
323	350-400A	670	186.1	47.5	70	5.5	220	1450
		1120	311.1	44	79			
		1340	372.2	39	77			
324	350-400B	625	173.6	41.5	68	5.5	200	1450
		1040	288.9	38	78			
		1250	347.2	34	76			
325	350-400C	370	102.8	33	66	5.5	160	1450
		905	251.4	31	77			
		1073	298.1	28	75			



LISG、LIHG系列外形图及安装尺寸图  
Outline drawing and installation size chart



## 安装尺寸表 Installation Dimension

序号	型号	电机 Motor	重量	外形尺寸				进口、出口法兰尺寸				底脚尺寸			隔振座	隔振器	
			Weight	Dimensions				Import And Export Flange Size				Foot Size			Vibration Isolation Seat	Vibration Isolator	
No	Model	型号 Model	kg	L	B	H	A	DN	P	Q	n-ø	C1*B1	C2*B2	4-d1	规格 Specification	规格 Specification	H1
1	20-110	YX3-801-2	25	260	230	420	70	G3/4"				80*110	50*80	14	SG-1	JD1-1	65
2	20-125	YX3-801-2	35	260	230	420	70	G3/4"				80*110	50*80	14	SG-2	JD1-1	65
3	20-160	YX3-802-2	35	310	230	420	70	G3/4"				90*130	60*100	14	SG-2	JD1-1	65
4	25-110	YX3-801-2	29	260	230	420	70	25	85	115	4-14	80*110	50*80	14	SG-2	JD1-1	65
5	25-125	YX3-801-2	33	260	230	420	75	25	85	115	4-14	80*110	50*80	14	SG-2	JD1-1	65
6	25-125A	YX3-801-2	32	260	230	420	75	25	85	115	4-14	80*110	50*80	14	SG-2	JD1-1	65
7	25-160	YX3-905-2	39	300	270	420	70	25	85	115	4-14	95*135	60*100	14	SG-3	JD1-1	65
8	25-160A	YX3-802-2	35	300	270	420	70	25	85	115	4-14	95*135	60*100	14	SG-3	JD1-1	65
9	32-100	YX3-801-2	35	260	230	420	85	32	100	140	4-18	90*130	60*100	14	SG-3	JD1-1	65
10	32-125	YX3-801-2	35	260	230	420	85	32	100	140	4-18	90*130	60*100	18	SG-4	JD1-1	65
11	32-125A	YX3-801-2	34	260	230	420	85	32	100	140	4-18	90*130	60*100	18	SG-4	JD1-1	65
12	32-160	YX3-905-2	42	320	260	500	85	32	100	140	4-18	105*155	70*120	18	SG-4	JD1-1	65
13	32-160A	YX3-802-2	43	320	260	420	85	32	100	140	4-18	105*155	70*120	18	SG-4	JD1-1	65
14	32-160(I)	YX3-90L-2	45	320	270	500	85	32	100	140	4-18	100*150	70*120	18	SG-5	JD1-1	65
15	32-200	YX3-100L-2	61	340	330	540	90	32	100	140	4-18	125*175	80*130	18	SG-5	JD1-1	65
16	32-200A	YX3-90L-2	53	340	330	500	90	32	100	140	4-18	125*175	80*130	18	SG-5	JD1-1	65
17	32-200B	YX3-905-2	40	340	270	500	90	32	100	140	4-18	125*175	80*130	18	SG-5	JD1-1	65
18	32-200(I)	YX3-112M-2	70	340	330	560	90	32	100	140	4-18	120*170	80*130	18	SG-5	JD1-1	65
19	40-100	YX3-801-2	34	260	230	440	85	40	110	150	4-18	100*150	70*120	18	SG-4	JD1-1	65
20	40-100A	YX3-801-2	33	260	230	440	85	40	110	150	4-18	100*150	70*120	18	SG-4	JD1-1	65
21	40-125	YX3-802-2	38	280	230	445	85	40	110	150	4-18	105*155	70*120	18	SG-4	JD1-1	65
22	40-125A	YX3-801-2	36	280	230	445	85	40	110	150	4-18	105*155	70*120	18	SG-4	JD1-1	65
23	40-160	YX3-90L-2	46	320	270	505	80	40	110	150	4-18	100*150	70*120	18	SG-4	JD1-1	65
24	40-160A	YX3-905-2	42	320	270	485	80	40	110	150	4-18	100*150	70*120	18	SG-4	JD1-1	65
25	40-160B	YX3-802-2	38	320	270	470	80	40	110	150	4-18	100*150	70*120	18	SG-4	JD1-1	65
26	40-200	YX3-112M-2	72	340	330	560	95	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
		YX3-802-4	38	340	330	485	95	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
27	40-200A	YX3-100L-2	62	340	330	540	95	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
		YX3-712-4	30	340	330	485	95	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
28	40-200B	YX3-90L-2	53	340	330	505	95	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
29	40-250	YX3-132S2-2	105	400	405	630	100	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
		YX3-905-4	52	400	405	500	100	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
30	40-250A	YX3-132S1-2	98	400	405	630	100	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
		YX3-802-4	47	400	405	500	100	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
31	40-250B	YX3-112M-2	77	400	405	565	100	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
		YX3-802-4	46	400	405	500	100	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
32	40-100(I)	YX3-802-2	39	300	230	455	100	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
33	40-100(I)A	YX3-801-2	37	300	230	455	100	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
34	40-125(I)	YX3-905-2	43	300	240	465	100	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
35	40-125(I)A	YX3-802-2	39	300	240	450	100	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
36	40-160(I)	YX3-100L-2	57	340	300	550	105	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
		YX3-802-4	37	340	300	475	105	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
37	40-160(I)A	YX3-90L-2	47	340	300	515	105	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
38	40-160(I)B	YX3-905-2	43	340	300	490	105	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
39	40-200(I)	YX3-132S1-2	91	360	350	635	95	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
		YX3-802-4	45	360	350	490	95	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
40	40-200(I)A	YX3-112M-2	72	360	350	570	95	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
		YX3-802-4	44	360	350	490	95	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
41	40-200(I)B	YX3-100L-2	63	360	350	550	95	40	110	150	4-18	120*170	80*130	18	SG-5	JD1-1	65
42	40-250(I)	YX3-160M1-2	157	440	430	780	105	40	110	150	4-18	140*200	100*160	18	SG-6	JD2-1	75
		YX3-90L-4	54	440	430	550	105	40	110	150	4-18	140*200	100*160	18	SG-6	JD2-1	75
43	40-250(I)A	YX3-132S2-2	107	440	360	650	105	40	110	150	4-18	140*200	100*160	18	SG-6	JD2-1	75
		YX3-905-4	49	440	430	530	105	40	110	150	4-18	140*200	100*160	18	SG-6	JD2-1	75
44	40-250(I)B	YX3-132S1-2	100	440	360	650	105	40	110	150	4-18	140*200	100*160	18	SG-6	JD2-1	75
		YX3-802-4	45	440	360	515	105	40	110	150	4-18	140*200	100*160	18	SG-6	JD2-1	75
45	40-250(I)C	YX3-132S1-2	99	440	360	650	105	40	110	150	4-18	140*200	100*160	18	SG-6	JD2-1	75
46	50-100	YX3-802-2	38	290	230	455	95	50	125	165	4-18	100*150	70*120	18	SG-4	JD1-1	65
47	50-100A	YX3-801-2	36	290	230	455	95	50	125	165	4-18	100*150	70*120	18	SG-4	JD1-1	65
48	50-125	YX3-905-2	43	300	240	465	100	50	125	165	4-18	105*155	70*120	18	SG-4	JD1-1	65
49	50-125A	YX3-802-2	39	300	240	450	100	50	125	165	4-18	105*155	70*120	18	SG-4	JD1-1	65











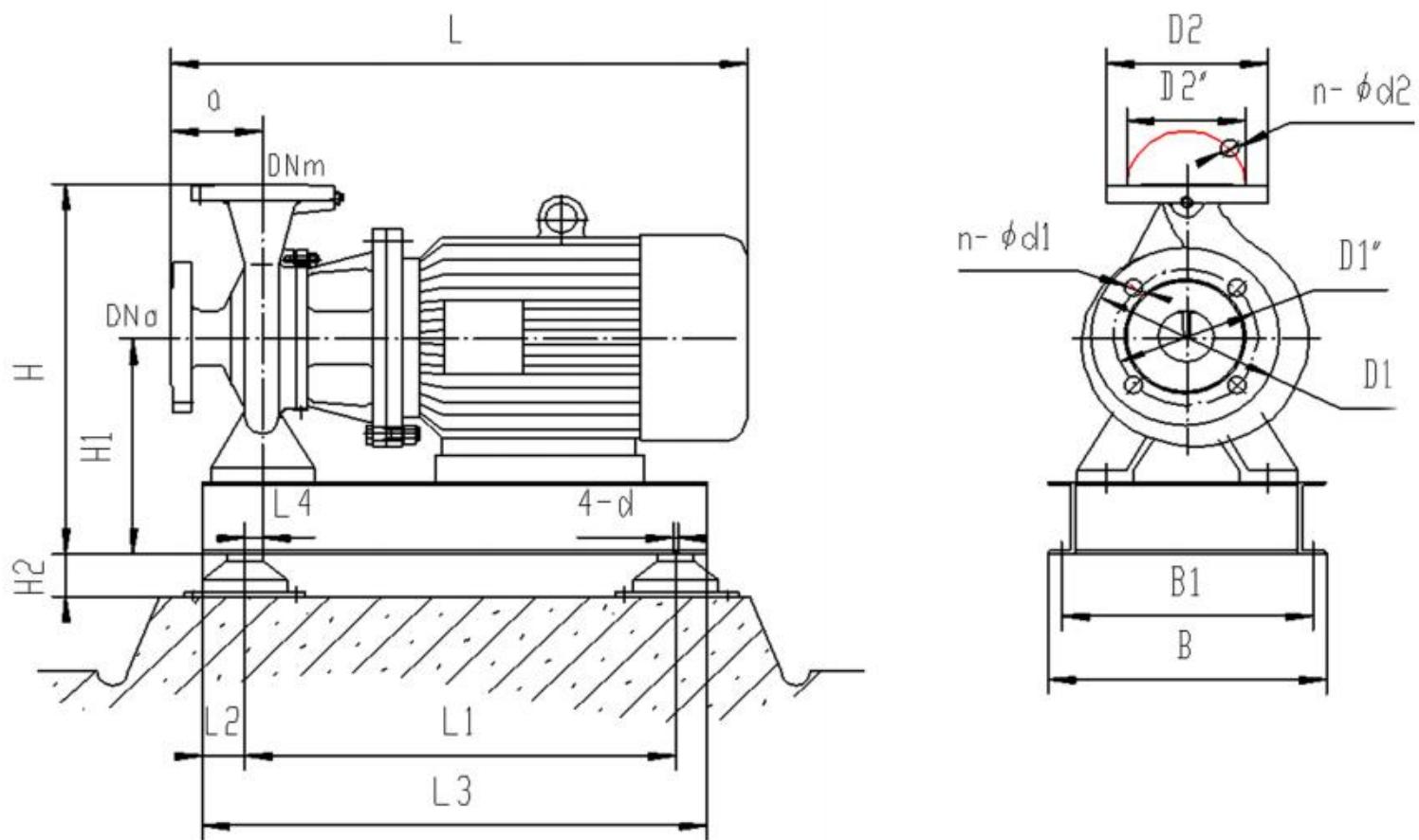




## 安装尺寸表 Installation Dimension

序号	型号	电机 Motor	重量	外形尺寸				进口、出口法兰尺寸				底脚尺寸			隔振座	隔振器	
			Weight	Dimensions				Import And Export Flange Size				Foot Size			Vibration Isolation Seat	Vibration Isolator	
No	Model	型号 Model	kg	L	B	H	A	DN	P	Q	n-ø	C1*B1	C2*B2	4-d1	规格 Specification	规格 Specification	H1
322	350-400	YX3-315M-4	1950	1950	1300	2005	420	350	470	520	16-26	550*650	500*600	26	SG-18	JD4-1	135
323	350-400A	YX3-315L2-4	1810	1950	1300	2005	420	350	470	520	16-26	550*650	500*600	26	SG-18	JD4-1	135
324	350-400B	YX3-315L2-4	1690	1950	1300	1820	420	350	470	520	16-26	550*650	500*600	26	SG-18	JD4-1	135
325	350-400C	YX3-315L1-4	1530	1950	1300	1700	420	350	470	520	16-26	550*650	500*600	26	SG-18	JD4-1	135

LISW、LIHW系列外形图及安装尺寸图  
Outline drawing and installation size chart

















# 泵的起动与停车

Start and stop of the pump

## 起动与运行

- 1、全开进口阀门，关闭吐出管路阀门；
- 2、起动电机；(注意旋向是否正确)
- 3、待机组转速稳定后调节出口阀门开度，观察压力表、流量表，检查轴封泄漏情况；
- 4、检查电机、轴承处温升≤70℃，如有异常，应及时处理。

## 停车

- 1、介质温度较高时，应先降温，降温速度为10℃/min，液体温度降至70℃以下，方可停车；
- 2、关闭吐出口阀门，同时关闭真空表及压力表旋塞；
- 3、切断电源；
- 4、关闭进口阀门；
- 5、如长期停车应将泵内液体放尽，尤其在环境温度低于0℃时，停车后应立即放尽液体，以防冻坏零部件。

## 泵的维护与保养

### 运行中的维护和保养

- 1、进水管路必须高度密封，不能漏水、漏气；
- 2、禁止泵在汽蚀状态下运行；
- 3、尽量避免泵在大流量工况下运行；
- 4、定时检查电机电流值，不得超电机额定电流；
- 5、泵在运行中应有专人看管，以免发生意外；
- 6、泵每运行5000小时就对轴承进行加油；
- 7、泵进行长期运行后，由于机械磨损，使机组噪声及振动增大时，应停机检查，必要时可更换易损件，机组大检修期一般为一年。

### 机械密封维护与保养

- 1、机械密封润滑应清洁无固体颗粒；
- 2、严禁机械密封在干磨情况下工作；
- 3、起动前应盘动泵(电机)几圈，以免突然起动造成机械密封断裂损坏；
- 4、密封泄漏允差为3滴/分，否则应检修。

## Starting and running

1. Fully open the inlet valve and close the outlet pipeline's valve;
2. Start the motor; (take care of the rotating direction)
3. Adjust the opening of the outlet valve when the rotating speed of the unit gets stable and take a look at the piezometer and the flow-meter and check if the shaft seal leaks;
4. Check the temperature rise at both motor and bearing, which should be ≤70℃, and deal with it on time in case of an abnormal condition.

## Stopping

1. First lower the temperature with a rate 10℃/min in case of a higher temperature of the medium and do not stop running until it lowers below 70℃.
2. Close the outlet valve and both vacuum meter and screw cork of the piezometer;
3. Cut off the power;
4. Close the inlet valve;
5. Completely drain out the liquid inside of the pump in case of a long time stop, especially when the ambient temperature is below 0℃, then the liquid must be completely out at once stopping to prevent the parts from being frozen.

## MAINTENANCE OF THE PUMP

### Maintenance in running

1. The inlet pipeline must be highly sealed without any water, air leak;
2. Prohibit the pump from running in the steam-corroded status;
3. Avoid running of the pump under the working condition of a heavy flow as can as possible;
4. Periodically check the current value of the motor and never let it over the rated one;
5. The pump must be cared by a special person during its running to avoid any accident;
6. Lubricate the bearing every 5000h running of the pump;
7. Stop and check, and if necessary, replace the wearable parts when both noise and vibration of the unit are enlarged due to mechanical wearability after a long time use of the pump, the period for the unit to be overhauled is one year generally.

### Maintenance of mechanical seal

1. The lubricating liquid for the mechanical seal should be clean with out any solid grains;
2. Prohibit the mechanical seal from working with dry-grinding;
3. Turn the pump(motor)several turns before starting in order not to cause the mechanical seal to be broken and damaged due to an abrupt starting;
4. The leak from the seal is allowed to be 3 drop/min, otherwise service must be taken.



# 泵的安装说明

Pump installation instructions

- 1、安装时管路重量不应承受在泵上，否则易损坏水泵；
- 2、泵与电机是整体结构，出厂时已由厂家校正，安装时无需调整，因此安装十分方便；
- 3、安装时必须拧紧地脚螺柱，且每隔一定时段应对其进行检查，防止其松动，以免水泵起动时发生振动而影响泵的性能；
- 4、安装水泵前应仔细检查泵流道内有无影响水泵运行的硬物(如石块、铁砂等)，以免水泵运行时损坏过流部件；
- 5、为了安全使用及维修方便，在泵的进出口管路上安装一只调节阀及在泵出口附近安装一只压力表，对于高扬程泵，为防止水锤，还应在出口闸阀前安装一只止回阀以应付突然断电等失去动力事故，从而确保水泵在最佳工况下运行，延长水泵的使用寿命。
- 6、泵用于有吸程场合，应装有底阀，且进口管不应有过多弯头，同时不得有漏水、漏气现象，以免影响水泵的吸入性能；
- 7、为不使杂质进入泵内而堵塞流道，应在泵进口前安装过滤器。
- 8、安装管路前转动水泵的转子部件，应无摩擦声或卡列现象，否则应将泵拆开检查原因。

1. Do not let the pump subjected to the pipeline weight in erection, or it may be easy to be made damaged;
2. Both pump and motor are intergrally structured and calibrated by the manufacturer, so there is no ned to adjust them, leaving a very convenient erection;
3. Tighten the foot bolts in erection and periodically check the pump to prevent it from being loose and its performance from being affected due to the vibration at the starting of it;
4. Prior to erection, carefully check if there is any hard matters (such as stones, iron sand etc.) inside of the flow path of the pump which may affect its running to prevent its flowing parts from being damaged during its running;
5. For an easy service and safe use, mount an adjusting valve on both inlet and outlet pipelines and a piezometer near the outlet. For the pump with a high head, also mount a check valve before the gate valve on the outlet to meet with the power loss accidents like an abrupt power-off etc. so as to make sure of the pump to run in the best working conditions to extend its duration;
6. A foot valve should be mounted in case of the pump to be used in the occasion with a suction stroke and there should not be too many elbows with the inlet pipe and any water and air leaks to avoid the its performance of suck-in being affected;
7. A fileter should be mounted before the pump inlet so as not to let any foreign matters in to the pump;
8. Enfore mounting the pipeline, move the pump's rotor and there should be no friction sound or block-up, otherwise the pump has to be removed to check and find the causes;

## 泵的起动与停车

### 起动前准备

- 1、用手拨转电机风叶，叶轮应转动灵活、无卡擦现象；
- 2、全开进口阀门，打开排气阀使液体充满泵腔，然后关闭排气阀；
- 3、检查各部位是否正常：轴承是否润滑良好，各部位螺栓是否紧固，吸入管是否通畅等；
- 4、如介质温度较高则应时行预热，升温速度为50℃/h，以确保各部位受热均匀。

### START AND STOP OF THE PUMP

#### Preparations before starting

1. Turn the fan blade of the motor with hand, the impeller must be flexibly to move without block-up;
2. Fully open the inlet valve and the exhaust valve to let the pump cavity full of liquid, then close the exhaust valve;
3. Check if every part is normal, the bearing well lubricated, the bolts on every part tightened, the suck-in pipe smooth and so on;
4. Preheat has to be taken in case of a medium with a higher temperature, with a rate of temperature rise 50℃/h, to make sure of every part to be heated evenly.

# 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、泵不吸水出口压力表及真空表指针剧烈跳动  Pump not suck water,both outlet piezometer and vacuum meter severely jump with their pointers	a)泵内灌水量不够 Unenough water filled into the pump b)吸水管路或密封仪表漏水 Water leaks from suction pipeline or sealing meter c)泵起动时出口阀门开启太大 Outlet valve is over-opened at pump starting d)底阀淹没深度不够 Depth for foot valve to be submerged not enough e)泵内没灌满水、有空气 Air exists inside of pump with water not fully filled f)进水管路漏气 Air leaks from inlet pipeline g)进水管路安装不对,堵气 Wrong mounted inlet pipeline with air blocked up h)出口处堵气,逆止阀不能打开 Air blocked up at outlet,back valve can not be opened	a)检查底阀是否漏水并重新灌水 Check if foot valve leaks and refill water b)找出泄漏部位并紧固 Find out leaking place and tighten it c)起动时出口闸阀关闭,转速正常后慢慢开启出口阀门 Close gate valve at outlet at starting and then slowly open outlet valve when rotating speed gets normal d)调整淹没深度至1.5倍进水管径以上 Adjust the depth to 1.5 times of inlet pipe's diameter e)检查底阀是否漏水并重新灌水 Check if foot valve leaks and refill water f)密封漏气的部位 Seal the leaking place g)重新安装进水管路 Remount it h)排气 Exhaust
2、泵不吸水,真空表显示高度真空  Pump not suck water, high vacuum shown on vacuum meter	a)底阀无法打开或已淤塞 Foot valve unable to be opened or blocked up already b)过滤器、吸入管堵塞 Filter and suction pipe blocked up c)吸程过高 Suction stroke too high	a)校正更换底阀 Correct or replace it b)拆卸并清除异物 Remove and get rid of foreign matters c)降低吸程 Lower it
3、泵不出水压力表显示有压力  No water out of pump, but pressure shown on piezometer	a)出水管阻太大,止回阀等阀门未打开 Resistance of outlet pipe too much,check valve etc. not opened b)电机反转 Motor reversedly moves c)叶轮堵塞 Impeller blocked up	a)减小管阻,更换阀门 Reduce the resistance,replace valves b)正确接好电机配线 Correctly wire the wires with motor c)清除异物 Get rid of foreign matters
4、机组不能起动  Unit can not be started	a)不具备起动条件 Without conditions for starting b)电机发生故障 A failure with motor	a)检查是否符合起动条件 Check if conforming with the conditions b)检查修理电机 Check and repair it
5、达不到设计流量及扬程  Can not reach designed flow and head	a)有空气吸入 Air sucked in b)叶轮、进出水管路、过滤器部分阻塞 Impeller,inlet and outlet pipelines and filter partially blocked up c)水位降低,淹没深度不够 Water level lowers, unenough submerged depth d)口环磨损严重 Access ring seriously worn out e)转速不够 Number of rotating not enough	a)检查是否有空气吸入并避免 Check if air sucked in and prevent it b)拆卸并清除异物 Remove and get rid of foreign matters c)加深淹没深度 Deepen it d)更换口环 Replace it e)检查电源频率 Check power's frequency



# 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
6、机械密封漏水 Water leaks from mechanical seal	a)介质含有颗粒或液体出现结晶现象 Medium contains grains or crystallization occurs with liquid b)机械密封安装不平整 Mechanical seal flatly mounted c)机械密封动静环表面无水干磨 Surfaces of both static and dynamic rings of mechanical seal dry grinded without water d)正常磨损 Normal worn-out	a)清洗管路，防止结晶 Clean pipeline to prevent crystallizing b)重新安装平整 Mount it flatly c)泵起动时放尽泵内空气，以防机封干摩擦 Completely exhaust air inside of pump at starting to prevent dry-grinding d)更换机封 Replace it
7、轴承过热 Bearing overheated	a)轴承内油脂流失 Grease inside of it lost b)润滑油老化 Lubrication oil aged c)轴承有故障 A failure with it	a)补充润滑油 Supplement lubricating oil b)更换润滑油 Replace it c)检查、修理或更换 Check, repair or replace
8、水泵噪声及振动 Noise and vibration with pump	a)泵及管路中有空气未排除 Air not exhausted inside of pump and pipeline b)水泵偏离设计工况运行 Pump runs with deviation to designed working conditions c)水泵超负荷运行 Pump runs with an overload d)轴承缺油或磨损 Bearing lack of oil or worn out e)泵及管路支撑不良 Pump and pipeline not well supported f)泵发生汽蚀 Steam-corrosion occurs with pump	a)排除空气 Exhaust air b)在设计点附近运行 Have pump run near designed points c)调节阀门减载运行 Adjust valve to reduce the load d)更换轴承补充润滑油 Replace bearing and supplement lubricating oil e)加强支撑, 采取隔振措施 Strengthen support, take isolation measures f)改善吸入条件, 避免汽蚀 Improve suction conditions to prevent it
9、电机超电流 Motor's current is over	a)泵超大流量运行 Pump runs with over-flow b)叶轮与泵体口环擦碰 Both impeller and access-ring of pump casing contacting c)介质混入其它异物 Other foreign matters mixed with medium d)电压过低 Voltage too low e)轴承损坏 Bearing damaged f)转速过快 Too quick rotating speed	a)调节出口阀门 Adjust outlet valve b)校正泵轴的同心度 Correct the concentricity of both pump and shaft c)排除异物 Get rid of foreign matters d)使泵在正常电压下运行 Have pump run under normal voltage e)更换轴承 Replace it f)检查电源频率 Check power's frequency
10、电机烧毁 Motor burnt out	a)长时间超负荷运行 Long time overload running b)定子受潮 Stator gets wet c)电机缺相运行 Motor runs with lack of phase	a)调节运行工况 Adjust working conditions for running b)改善机组使用环境 Improve environment where unit is used c)检查电源, 排除故障 Check power and troubleshoot





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