在使用本产品前请仔细阅读本手册，本将其放在设备附近以备将来参阅。

Before use, please read this manual carefully and be placed nearby to the equipment for future reference

CHENG

上海上诚泵阀制造有限公司

SHANGHAISHANGCHENG PUMP AND VALVE MANUFACTURINGCO.,LTD

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上诚泵阀 因诚而信

Shangcheng Pump and valve

Being trustworthy because of its sincerity

GDL立式多级管道离心泵

GDL VERTICAL MULTI-STAGE PIPELINE CENTRIFUGAL PUMP

用户使用手册

User operating brochure

Shanghai ShangCheng

PUMP AND VALVE MANUFACTURING CO.,LTD

上海上诚泵阀制造有限公司






上海上诚泵阀制造有限公司是一家集科研、开发、生产、销售于一体的泵阀企业；公司拥有一支经验丰富、勇于实践、不断创新的高素质开发、科研队伍：其中高级工程师2名，研究、设计技术人员35名，生产技术制造人员68名，现有员工总数达298人；公司拥有国内外先进的电脑微机控制性能水泵测试台，使客户更安全、更有效、更放心地使用上诚产品。

公司全面采用ISO9001：2000《质量管理体系要求》，并有效的实施；自创办以来始终把质量管理作为第一追求目标，发扬拼搏精神，争创一流的精神在泵阀行业中不断发展壮大。

公司主要生产经营各类水泵及配套蝶阀；产品畅销全国各地，广泛应用于石油、化工、电力、造纸、食品、制药、给排水工程等，深受各行业用户的一致好评，上诚秉着“以诚为贵，以质取胜”的经营理念，诚心为您提供优质的品牌产品和完美的服务，竭诚欢迎社会各界惠顾合作。

企业简介 BRIEF INTRODUCTION

Shanghai Shangcheng Pump and valve manufacturing Co.,Ltd. is an enterprise of Researching, developing, producing and selling; The company has an experienced team to develop high quality products, 2 senior engineers, 35 designing engineers, 68 technicians, which totally amounts to 298; The company has the domestic advanced automatical system to perform water pump test, which can make the customer to use our products safely, effective and easily.

The ISO9001:2000"quality control system rpequest” always be implem ented effectively; since our company is opened, the quality control is always our first pursue goal and we are growing strong in the pump and valve industry.

Our main products are pumps and matched valves, which are sold to the strongly all over of China, it can be widely applied to petroleum, chemical industry, electric power, papermaking, food, drugs manufacturing and so on, “honesty oriented, quality comes first” is our management idea, which sincerely provides the high quality brand product and the consummation service for you.

产品概述

GDL型多级管道离心泵是本单位在国内外优秀泵型之基础上结合用户的使用要求及消防有关标准，并根据JB/Q6435. 92标准设计制造的新一代产品。

该泵采用立式节段式外加不锈钢壳体结构，使得泵的进出口为于同一水平线上且口径相同，能像阀门一样安装于管路之中，它同时集中了多级泵之高压、立式泵之占地面积小及管道泵之安装方便的优点，同时由于采用了优秀的水力模型，所以还具有高效节能、运行平稳等优点，且轴封采用耐磨机械密封，无泄漏使用寿命长。

为了能更好地满足用户的要求，本单位还开发了出水口位于上部的ALDGS型，其进出口可以不同的相对位置（0°、90°、180°）安装，使用极为方便。

Overview

Model GDL multi-stage pipeline centrifugal pump is a new generation product designed and made by us on the basis of the excellent pump types both domestic and overseas and combining the requirements of user and the related fire-fighting standards and following the standard of JB/TQ6435-92.

This pump uses a vertical sectional and stainless steel casing structure to have both inlet and outlet on a same level of a same aperture and capable of being mounted in a pipeline just as a valve and collects the merits of the high pressure of a multi-stage pump, a less land area of a vertical pump and convenient installation of a pipeline pump and, due to the excellent hydraulic model it adopts, also features a high efficiency. energy-saving, stable running etc,. in addition, because of the wearable mechanical seal it uses as the shaft seal, it has no leak and a long duration of use.

To provide a better statisfaction to the requirements of users. We also develop model ALDGS, the outlet of which is located on the upper part and both inlet and outlet can be mounted in different opposite positions(0°,90°,180°), leaving an extremely convenient use.

应用范围

本型泵主要适用于高压运行系统中冷热清水的循环和增压，高层建筑多台泵并联供水，消防、锅炉给水和冷却水系统及各种冲洗液的输送等。

Range of application

Mainly used for the circulation and boost of both cold and hot pure waters in a high pressure moving system, water supply with pumps in parallel in a high building, the water supply and cooling water system of fire-fighting and boilers and the transporting of various rising liquids.

工作条件

1、本型泵可输送清水或物理化学性质类似于清水的液体：

2、液体温度: -15°C~+120℃;

3、工作压力:最大工作压力<2.5MPa, 即系统压力=入口压力+闭阀工作时的压力<2.5MPa;

4、周围环境的温度应低于40℃, 相对湿度不超过95%:

5、输送含腐蚀性介质及热液体时，请于订货时提出，以便采用特殊材质满足使用要求。

Working Conditions

1.This pump can transport pure water and the liquid the natures of both physics and chemistry of which are similar to those of pure water.

2.Liquid temperature:-15°C~+120℃.

3. Working pressure: maximum one<2.5MPa,i.e. the system pressure=inlet pressure+the pressure at work with valve closed<2.5MPa.

4. The ambient temperature should be below 40℃, RH no more than 95%

5.Please make n note at order if the pump is used to transport corrosive media and hot liquid so as to use special materials to meat with the demand.

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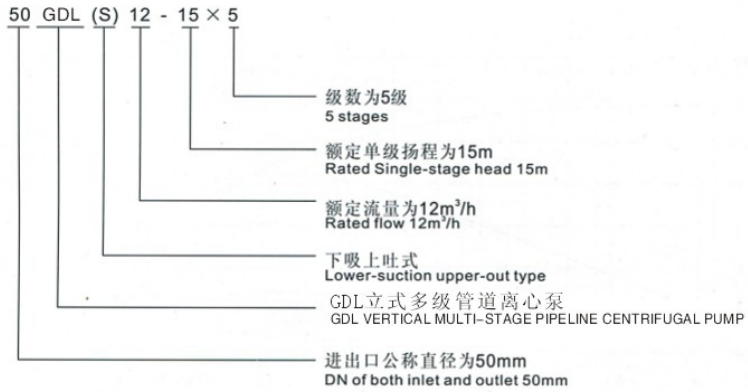
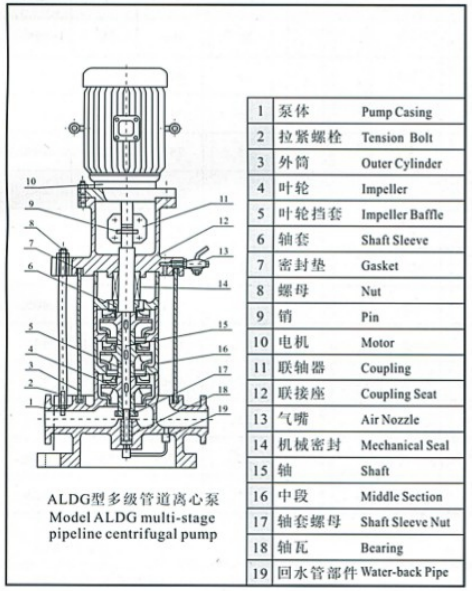
型号意义 Model Meaning

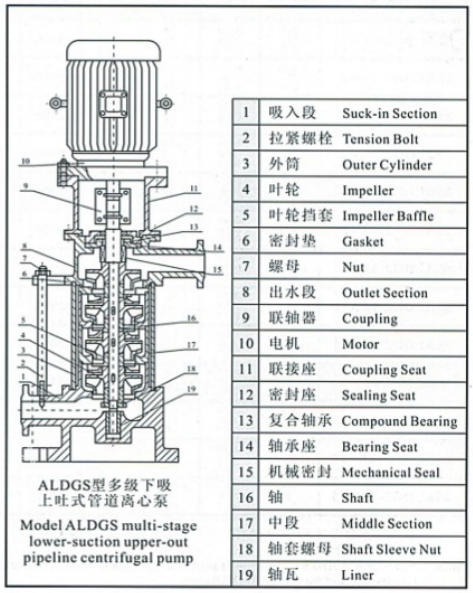


GDL型泵结构简图 GDL Type pump sketch drawing of structure



1	泵体	Pump Casing
2	拉紧螺栓	Tension Bolt
3	外筒	Outer Cylinder
4	叶轮	Impeller
5	叶轮挡套	Impeller Baffle
6	轴套	Shaft Sleeve
7	密封垫	Gasket
8	螺母	Nut
9	销	Pin
10	电机	Motor
11	联轴器	Coupling
12	联接座	Coupling Seat
13	气嘴	Air Nozzle
14	机械密封	Mechanical Seal
15	轴	Shaft
16	中段	Middle Section
17	轴套螺母	Shaft Sleeve Nut
18	轴瓦	Bearing
19	回水管部件	Water-back Pipe

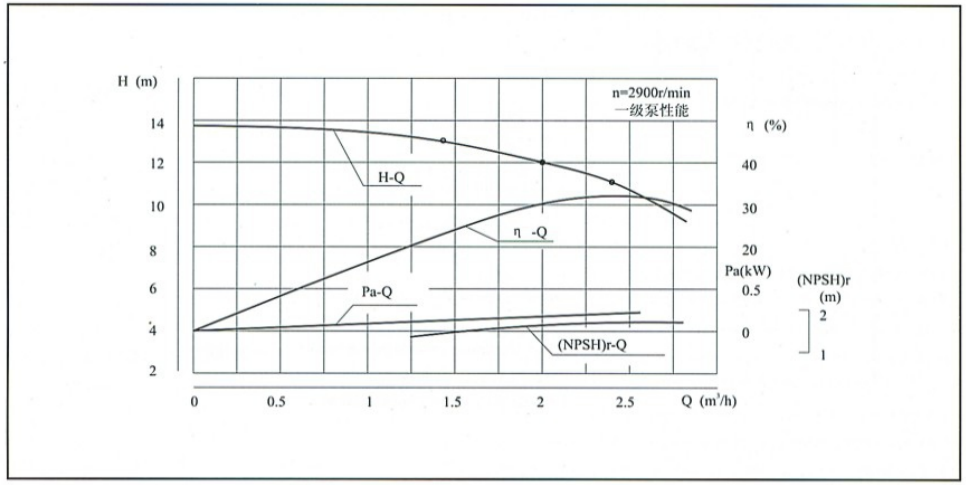
ALDG型多级管道离心泵
Model ALDG multi-stage pipeline centrifugal pump



1	吸入段	Suck-in Section
2	拉紧螺栓	Tension Bolt
3	外筒	Outer Cylinder
4	叶轮	Impeller
5	叶轮挡套	Impeller Baffle
6	密封垫	Gasket
7	螺母	Nut
8	出水段	Outlet Section
9	联轴器	Coupling
10	电机	Motor
11	联接座	Coupling Seat
12	密封座	Sealing Seat
13	复合轴承	Compound Bearing
14	轴承座	Bearing Seat
15	机械密封	Mechanical Seal
16	轴	Shaft
17	中段	Middle Section
18	轴套螺母	Shaft Sleeve Nut
19	轴瓦	Liner

ALDGS型多级下吸上吐式管道离心泵
Model ALDGS multi-stage lower-suction upper-out pipeline centrifugal pump

GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型号 Type	流量 Capacity (m³/h)	流量 Capacity (L/s)	扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power 轴功率 Shaft Power	功率 Power 电机功率 Motor Power	必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
25GDL2-12X3	1.4 2 2.4	0.39 0.56 0.67	38 36 33	23 30 32	2900	0.63 0.65 0.67	1.1	1.4 1.7 1.8	25	606	58	125
25GDL2-12X4	1.4 2 2.4	0.39 0.56 0.67	50 48 44	23 30 32	2900	0.83 0.87 0.90	1.1	1.4 1.7 1.8	25	646	62	165
25GDL2-12X5	1.4 2 2.4	0.39 0.56 0.67	63 60 55	23 30 32	2900	1.04 1.09 1.12	1.5	1.4 1.7 1.8	25	711	68	205
25GDL2-12X6	1.4 2 2.4	0.39 0.56 0.67	76 72 66	23 30 32	2900	1.26 1.30 1.35	1.5	1.4 1.7 1.8	25	751	72	245
25GDL2-12X7	1.4 2 2.4	0.39 0.56 0.67	88 84 77	23 30 32	2900	1.46 1.52 1.57	2.2	1.4 1.7 1.8	25	816	78	285
25GDL2-12X8	1.4 2 2.4	0.39 0.56 0.67	101 96 88	23 30 32	2900	1.63 1.74 1.80	2.2	1.4 1.7 1.8	25	856	82	325
25GDL2-12X9	1.4 2 2.4	0.39 0.56 0.67	114 108 99	23 30 32	2900	1.89 1.96 2.02	2.2	1.4 1.7 1.8	25	896	86	365
25GDL2-12X10	1.4 2 2.4	0.39 0.56 0.67	126 120 110	23 30 32	2900	2.01 2.17 2.24	3	1.4 1.7 1.8	25	981	98	405
25GDL2-12X11	1.4 2 2.4	0.39 0.56 0.67	139 132 121	23 30 32	2900	2.31 2.39 2.47	3	1.4 1.7 1.8	25	1021	102	445
25GDL2-12X12	1.4 2 2.4	0.39 0.56 0.67	152 144 132	23 30 32	2900	2.52 2.61 2.70	3	1.4 1.7 1.8	25	1061	106	485
25GDL2-12X13	1.4 2 2.4	0.39 0.56 0.67	164 156 144	23 30 32	2900	2.72 2.83 2.94	4	1.4 1.7 1.8	25	1221	122	525
25GDL2-12X14	1.4 2 2.4	0.39 0.56 0.67	176 168 156	23 30 32	2900	2.92 3.05 3.17	4	1.4 1.7 1.8	25	1261	126	565
25GDL2-12X15	1.4 2 2.4	0.39 0.56 0.67	188 180 168	23 30 32	2900	3.12 3.27 3.43	4	1.4 1.7 1.8	25	1301	130	605

注：1、 GDL型除重量及H尺寸稍有不同外，其性能参数与 GD 型相同。
2、h1尺寸仅用于 GDL型。
Note:1. For model ALDGS slightly defferent in werght and H size, the performance parameters are identical to model ALDG.
2.h1 size is used for model ALDGS only.

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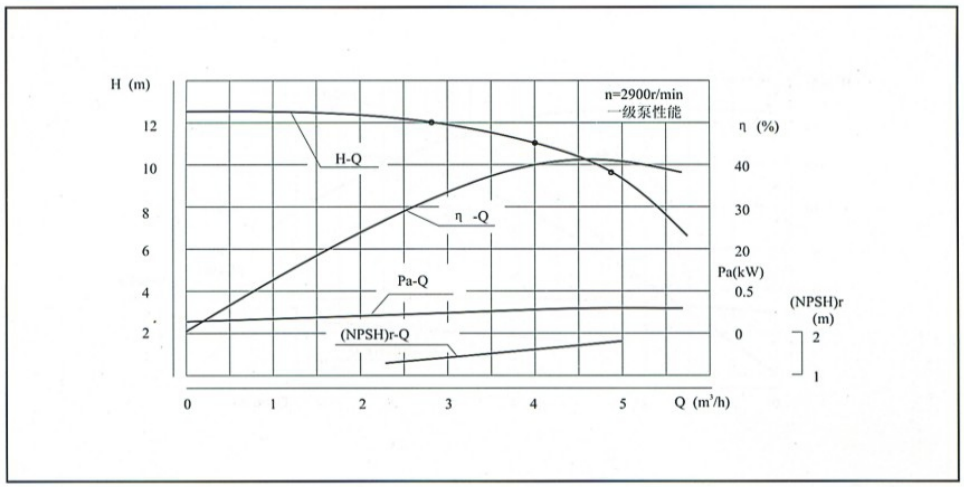
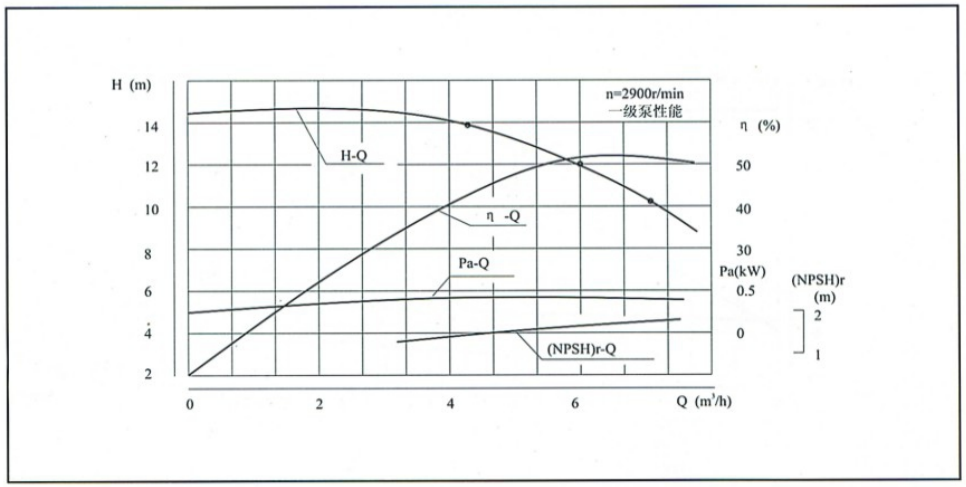
GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型号 Type	流量 Capacity (m³/h)	流量 Capacity (L/s)	扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power 轴功率 Shaft Power	功率 Power 电机功率 Motor Power	必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
25GDL4-11X3	2.8 4 4.8	0.78 1.11 1.33	36 33 28.5	32 40 41	2900	0.86 0.90 0.91	1.1	1.4 1.7 1.8	25	606	58	125
25GDL4-11X4	2.8 4 4.8	0.78 1.11 1.33	48 44 38	32 40 41	2900	1.14 1.20 1.21	1.5	1.4 1.7 1.8	25	671	65	165
25GDL4-11X5	2.8 4 4.8	0.78 1.11 1.33	60 55 47.5	32 40 41	2900	1.43 1.50 1.51	2.2	1.4 1.7 1.8	25	736	72	205
25GDL4-11X6	2.8 4 4.8	0.78 1.11 1.33	72 66 57	32 40 41	2900	1.72 1.80 1.82	2.2	1.4 1.7 1.8	25	776	76	245
25GDL4-11X7	2.8 4 4.8	0.78 1.11 1.33	84 77 66.5	32 40 41	2900	2.00 2.10 2.12	3	1.4 1.7 1.8	25	861	86	285
25GDL4-11X8	2.8 4 4.8	0.78 1.11 1.33	96 88 76	32 40 41	2900	2.29 2.40 2.42	3	1.4 1.7 1.8	25	901	90	325
25GDL4-11X9	2.8 4 4.8	0.78 1.11 1.33	108 99 85.5	32 40 41	2900	2.57 2.70 2.73	3	1.4 1.7 1.8	25	941	94	365
25GDL4-11X10	2.8 4 4.8	0.78 1.11 1.33	120 110 95	32 40 41	2900	2.86 3.00 3.03	4	1.4 1.7 1.8	25	1011	110	405
25GDL4-11X11	2.8 4 4.8	0.78 1.11 1.33	132 121 104.5	32 40 41	2900	3.14 3.30 3.33	4	1.4 1.7 1.8	25	1051	114	445
25GDL4-11X12	2.8 4 4.8	0.78 1.11 1.33	144 132 114	32 40 41	2900	3.43 3.60 3.64	4	1.4 1.7 1.8	25	1091	118	485
25GDL4-11X13	2.8 4 4.8	0.78 1.11 1.33	156 143 123.5	32 40 41	2900	3.72 3.90 3.94	4	1.4 1.7 1.8	25	1131	122	525
25GDL4-11X14	2.8 4 4.8	0.78 1.11 1.33	167 154 135	32 40 41	2900	3.98 4.19 4.30	5.5	1.4 1.7 1.8	25	1246	145	565
25GDL4-11X15	2.8 4 4.8	0.78 1.11 1.33	178 165 146	32 40 41	2900	4.24 4.49 4.65	5.5	1.4 1.7 1.8	25	1286	149	605

注：1、 GDL型除重量及H尺寸稍有不同外，其性能参数与 GD 型相同。
2、h1尺寸仅用于 GDL型。
Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
2.h1 size is used for model GDL only.

GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型 号 Type	流量 Capacity (m³/h)	(L/s)	扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power 轴功率 Shaft Power	电机功率 Motor Power	必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
40GDL6-12X3	4.2 6 7.2	1.17 1.67 2.0	41 36 30.5	43 52 52	2900	1.09 1.13 1.15	1.5	1.4 1.7 1.8	40	657	72	125
40GDL6-12X4	4.2 6 7.2	1.17 1.67 2.0	54 48 40.6	43 52 52	2900	1.45 1.5 1.53	2.2	1.4 1.7 1.8	40	722	78	165
40GDL6-12X5	4.2 6 7.2	1.17 1.67 2.0	68 60 51	43 52 52	2900	1.81 1.88 1.92	2.2	1.4 1.7 1.8	40	762	82	205
40GDL6-12X6	4.2 6 7.2	1.17 1.67 2.0	82 72 61	43 52 52	2900	2.18 2.26 2.30	3	1.4 1.7 1.8	40	847	92	245
40GDL6-12X7	4.2 6 7.2	1.17 1.67 2.0	95 84 71	43 52 52	2900	2.54 2.64 2.69	3	1.4 1.7 1.8	40	887	96	285
40GDL6-12X8	4.2 6 7.2	1.17 1.67 2.0	109 96 81	43 52 52	2900	2.91 3.01 3.07	4	1.4 1.7 1.8	40	967	112	325
40GDL6-12X9	4.2 6 7.2	1.17 1.67 2.0	123 108 91	43 52 52	2900	2.27 3.39 3.45	4	1.4 1.7 1.8	40	1007	116	365
40GDL6-12X10	4.2 6 7.2	1.17 1.67 2.0	136 120 102	43 52 52	2900	3.63 3.77 3.84	4	1.4 1.7 1.8	40	1047	120	405
40GDL6-12X11	4.2 6 7.2	1.17 1.67 2.0	150 132 112	43 52 52	2900	4.0 4.15 4.22	5.5	1.4 1.7 1.8	40	1132	140	445
40GDL6-12X12	4.2 6 7.2	1.17 1.67 2.0	164 144 122	43 52 52	2900	4.36 4.52 4.60	5.5	1.4 1.7 1.8	40	1172	146	485
40GDL6-12X13	4.2 6 7.2	1.17 1.67 2.0	176 156 134	43 52 52	2900	4.68 4.90 5.05	7.5	1.4 1.7 1.8	40	1252	158	525
40GDL6-12X14	4.2 6 7.2	1.17 1.67 2.0	188 168 146	43 52 52	2900	5.00 5.28 5.51	7.5	1.4 1.7 1.8	40	1292	164	565
40GDL6-12X15	4.2 6 7.2	1.17 1.67 2.0	200 180 158	43 52 52	2900	5.32 5.66 5.96	7.5	1.4 1.7 1.8	40	1332	170	605

注：1、 GDL型除重量及H尺寸稍有不同外，其性能参数与 GD 型相同。
2、h1尺寸仅用于 GDL型。
Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
2.h1 size is used for model GDL only.

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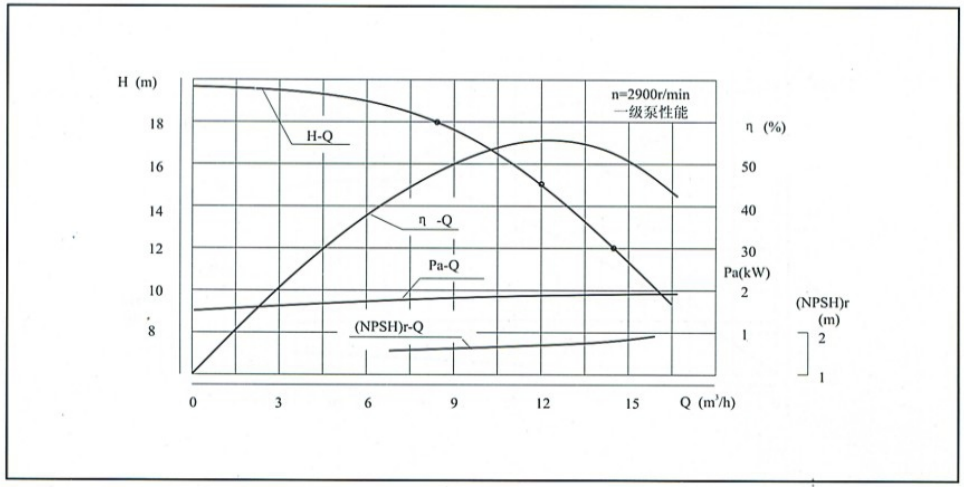
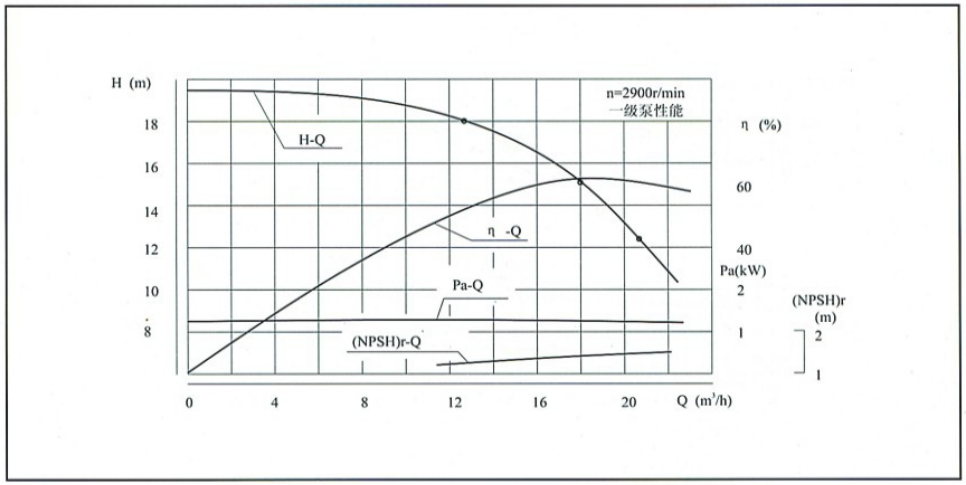


型 号 Type	流量 Capacity (m³/h)	(L/s)	扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power 轴功率 Shaft Power	电机功率 Motor Power	必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
50GDL12-15X2	8.4 12 14.4	2.33 3.33 4.0	36 30 24	48 56 53	2900	1.72 1.75 1.85	2.2	1.4 1.8 1.8	50	766	113	158
50GDL12-15X3	8.4 12 14.4	2.33 3.33 4.0	54 45 36	48 56 53	2900	2.57 2.63 2.78	3	1.4 1.8 1.8	50	866	129	233
50GDL12-15X4	8.4 12 14.4	2.33 3.33 4.0	72 60 48	48 56 53	2900	3.43 3.5 3.70	4	1.4 1.8 1.8	50	1001	149	308
50GDL12-15X5	8.4 12 14.4	2.33 3.33 4.0	90 75 60	48 56 53	2900	4.2 4.27 4.63	5.5	1.4 1.8 1.8	50	1126	181	383
50GDL12-15X6	8.4 12 14.4	2.33 3.33 4.0	108 90 72	48 56 53	2900	5.15 5.25 5.55	5.5	1.4 1.8 1.8	50	1201	190	458
50GDL12-15X7	8.4 12 14.4	2.33 3.33 4.0	126 105 84	48 56 53	2900	6.0 6.12 6.48	7.5	1.4 1.8 1.8	50	1276	204	533
50GDL12-15X8	8.4 12 14.4	2.33 3.33 4.0	144 120 96	48 56 53	2900	6.86 7.0 7.40	7.5	1.4 1.8 1.8	50	1351	212	608
50GDL12-15X9	8.4 12 14.4	2.33 3.33 4.0	162 135 108	48 56 53	2900	7.72 7.87 8.33	11	1.4 1.8 1.8	50	1556	265	683
50GDL12-15X10	8.4 12 14.4	2.33 3.33 4.0	180 150 120	48 56 53	2900	8.58 8.75 9.25	11	1.4 1.8 1.8	50	1631	273	758
50GDL12-15X11	8.4 12 14.4	2.33 3.33 4.0	195 165 135	48 56 53	2900	9.29 9.63 9.99	15	1.4 1.8 1.8	50	1706	291	833
50GDL12-15X12	8.4 12 14.4	2.33 3.33 4.0	210 180 150	48 56 53	2900	10.00 10.50 11.10	15	1.4 1.8 1.8	50	1781	299	908

注：1、 GDL型除重量及H尺寸稍有不同外，其性能参数与 GD 型相同。
2、h1尺寸仅用于 GDL型。
Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
2.h1 size is used for model GDL only.

GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型号 Type	流量 Capacity (m³/h)	流量 Capacity (L/s)	扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power 轴功率 Shaft Power	功率 Power 电机功率 Motor Power	必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
50GDL18-15X2	12.6 18 21.6	3.5 5 6	36 30 25	53 62 62	2900	2.33 2.37 2.37	3	1.4 1.8 1.8	50	791	122	158
50GDL18-15X3	12.6 18 21.6	3.5 5 6	54 45 37.5	53 62 62	2900	3.5 3.56 3.56	4	1.4 1.8 1.8	50	926	142	233
50GDL18-15X4	12.6 18 21.6	3.5 5 6	72 60 50	53 62 62	2900	4.66 4.75 4.75	5.5	1.4 1.8 1.8	50	1051	175	308
50GDL18-15X5	12.6 18 21.6	3.5 5 6	90 75 62.5	53 62 62	2900	5.83 5.93 5.93	7.5	1.4 1.8 1.8	50	1126	189	383
50GDL18-15X6	12.6 18 21.6	3.5 5 6	108 90 75	53 62 62	2900	7.0 7.12 7.12	7.5	1.4 1.8 1.8	50	1201	198	458
50GDL18-15X7	12.6 18 21.6	3.5 5 6	125 105 82.5	53 62 62	2900	8.16 8.30 8.31	11	1.4 1.8 1.8	50	1406	252	533
50GDL18-15X8	12.6 18 21.6	3.5 5 6	144 120 100	53 62 62	2900	9.32 9.49 9.49	11	1.4 1.8 1.8	50	1481	261	608
50GDL18-15X9	12.6 18 21.6	3.5 5 6	162 135 112.5	53 62 62	2900	10.49 10.68 10.68	15	1.4 1.8 1.8	50	1556	280	683
50GDL18-15X10	12.6 18 21.6	3.5 5 6	180 150 125	53 62 62	2900	11.66 11.87 11.87	15	1.4 1.8 1.8	50	1631	289	758
50GDL18-15X11	12.6 18 21.6	3.5 5 6	195 165 140	53 62 62	2900	12.60 13.00 13.30	15	1.4 1.8 1.8	50	1751	330	833
50GDL18-15X12	12.6 18 21.6	3.5 5 6	210 180 155	53 62 62	2900	13.60 14.20 14.70	15	1.4 1.8 1.8	50	1826	338	908

注：1、GDL型除重量及H尺寸稍有不同外，其性能参数与GD型相同。
2、h1尺寸仅用于GDL型。
Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
2.h1 size is used for model GDL only.

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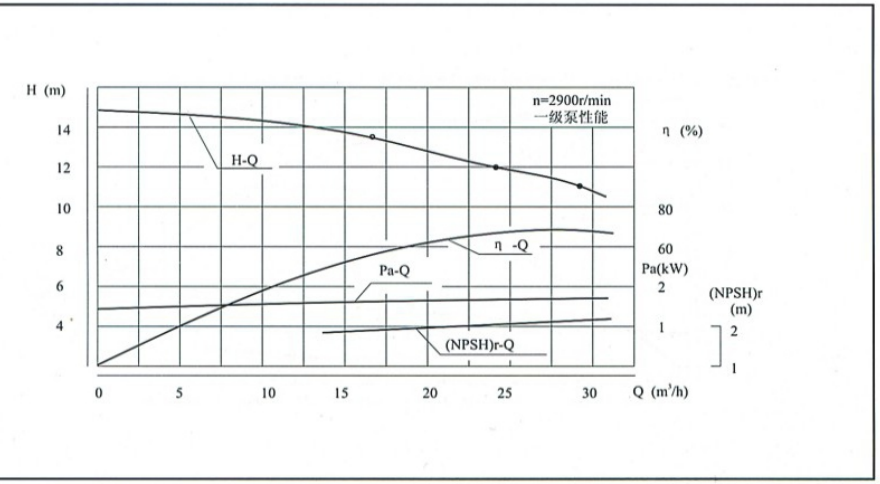
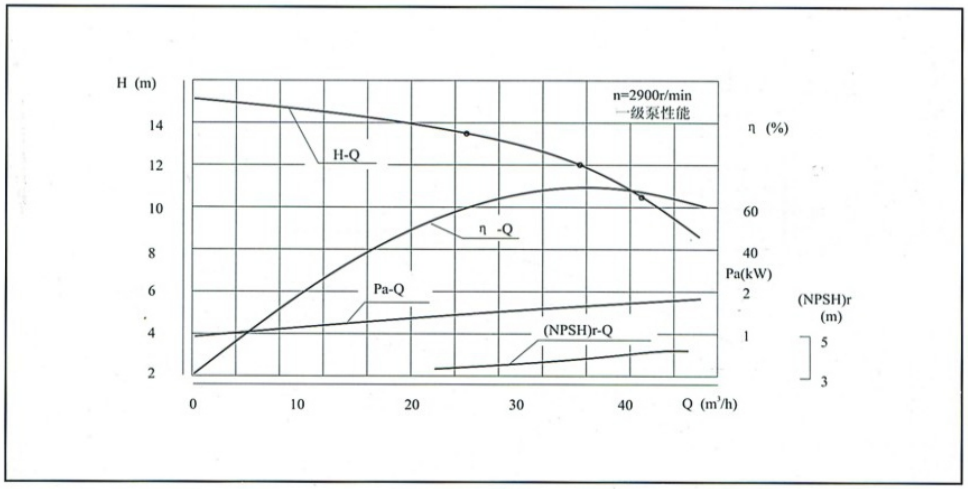
GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型号 Type	流量 Capacity (m³/h)	流量 Capacity (L/s)	扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power 轴功率 Shaft Power	功率 Power 电机功率 Motor Power	必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
65GDL24-12X2	16.8 24 28.8	4.67 6.67 8	27 24 22	56 65 67	2900	2.21 2.41 2.57	3	2.9 3 3.1	65	821	131	160
65GDL24-12X3	16.8 24 28.8	4.67 6.67 8	40.5 36 33	56 65 67	2900	3.31 3.62 3.87	4	2.9 3 3.1	65	936	153	235
65GDL24-12X4	16.8 24 28.8	4.67 6.67 8	54 48 44	56 65 67	2900	4.41 4.83 5.15	5.5	2.9 3 3.1	65	1061	182	310
65GDL24-12X5	16.8 24 28.8	4.67 6.67 8	67.5 60 55	56 65 67	2900	5.52 6.03 6.44	7.5	2.9 3 3.1	65	1136	198	385
65GDL24-12X6	16.8 24 28.8	4.67 6.67 8	81 72 66	56 65 67	2900	6.62 7.24 7.73	7.5	2.9 3 3.1	65	1211	214	460
65GDL24-12X7	16.8 24 28.8	4.67 6.67 8	94.5 84 77	56 65 67	2900	7.72 8.45 9.01	11	2.9 3 3.1	65	1416	263	535
65GDL24-12X8	16.8 24 28.8	4.67 6.67 8	108 96 88	56 65 67	2900	8.83 9.65 10.3	11	2.9 3 3.1	65	1491	273	610
65GDL24-12X9	16.8 24 28.8	4.67 6.67 8	121.5 108 99	56 65 67	2900	9.93 10.85 11.59	15	2.9 3 3.1	65	1556	293	685
65GDL24-12X10	16.8 24 28.8	4.67 6.67 8	135 120 110	56 65 67	2900	11.0 12.06 12.88	15	2.9 3 3.1	65	1641	303	760
65GDL24-12X11	16.8 24 28.8	4.67 6.67 8	147 132 122	56 65 67	2900	12.00 13.30 14.30	15	2.9 3 3.1	65	1731	345	845
65GDL24-12X12	16.8 24 28.8	4.67 6.67 8	159 144 134	56 65 67	2900	13.00 14.50 15.70	15	2.9 3 3.1	65	1816	353	930

注：1、GDL型除重量及H尺寸稍有不同外，其性能参数与GD型相同。
2、h1尺寸仅用于GDL型。
Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
2.h1 size is used for model GDL only.

GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型号 Type	流量 Capacity (m³/h)	流量 Capacity (L/s)	扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power 轴功率 Shaft Power	功率 Power 电机功率 Motor Power	必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
80GDL36-12X2	25.2 36 43.2	7 10 12	27 24 21	59 68 67	2900	3.14 3.46 3.68	4	3.5 4 4.2	80	917	193	182
80GDL36-12X3	25.2 36 43.2	7 10 12	40.5 36 31.5	59 68 67	2900	4.71 5.19 5.53	5.5	3.5 4 4.2	80	1052	227	267
80GDL36-12X4	25.2 36 43.2	7 10 12	54 48 42	59 68 67	2900	6.29 6.92 7.37	7.5	3.5 4 4.2	80	1137	244	352
80GDL36-12X5	25.2 36 43.2	7 10 12	67.5 60 52.5	59 68 67	2900	7.86 8.67 9.22	11	3.5 4 4.2	80	1352	292	437
80GDL36-12X6	25.2 36 43.2	7 10 12	81 72 63	59 68 67	2900	9.43 10.39 11.06	11	3.5 4 4.2	80	1437	302	522
80GDL36-12X7	25.2 36 43.2	7 10 12	94.5 84 73.5	59 68 67	2900	11.0 12.12 12.9	15	3.5 4 4.2	80	1522	322	607
80GDL36-12X8	25.2 36 43.2	7 10 12	108 96 84	59 68 67	2900	12.58 13.85 14.75	15	3.5 4 4.2	80	1607	332	692
80GDL36-12X9	25.2 36 43.2	7 10 12	121.5 108 94.5	59 68 67	2900	14.14 15.59 16.5	18.5	3.5 4 4.2	80	1737	365	777
80GDL36-12X10	25.2 36 43.2	7 10 12	135 120 115	59 68 67	2900	15.71 17.31 18.4	18.5	3.5 4 4.2	80	1822	375	862

注：1、GDL型除重量及H尺寸稍有不同外，其性能参数与GD型相同。
2、h1尺寸仅用于GDL型。
Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
2.h1 size is used for model GDL only.

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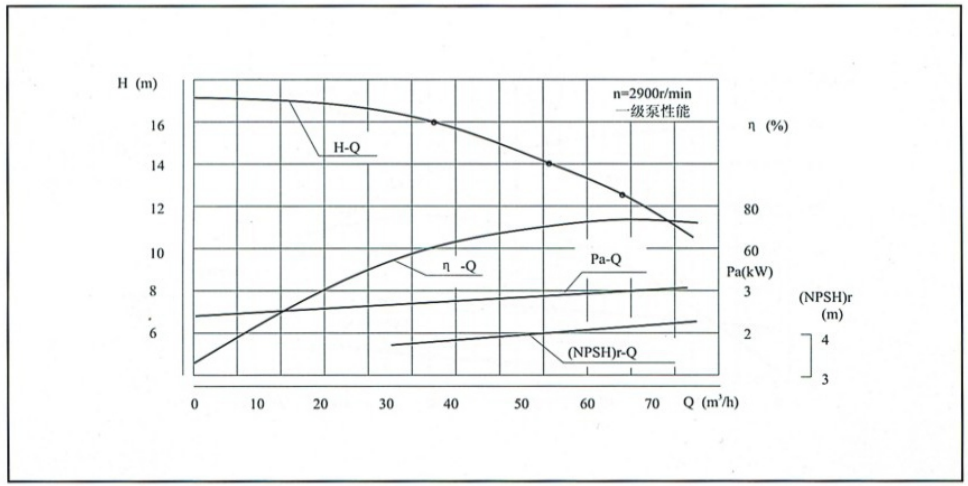
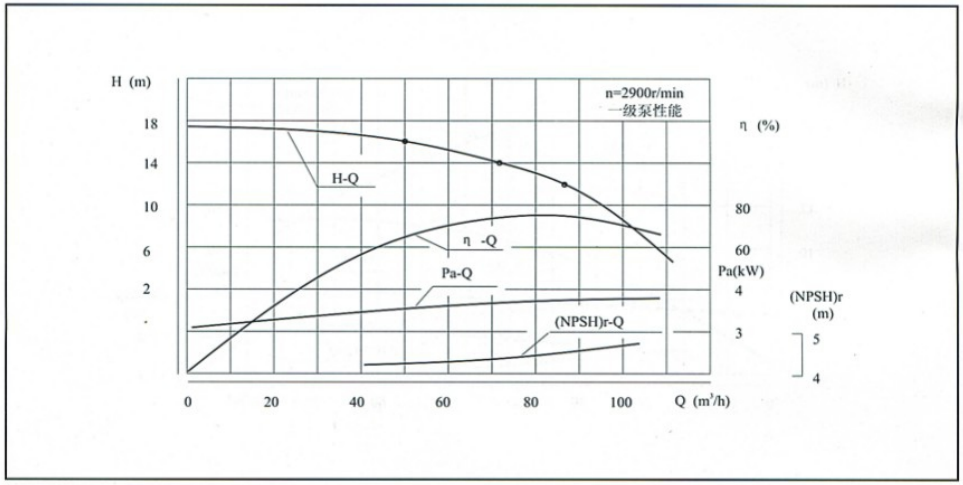
GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型号 Type	流量 Capacity (m³/h)	流量 Capacity (L/s)	扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power 轴功率 Shaft Power	功率 Power 电机功率 Motor Power	必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
80GDL54-14X2	37.8 54 64.8	10.5 15 18	32 28 25	62 70 73.5	2900	5.32 5.88 6.01	7.5	3.7 4 4.2	80	967	218	182
80GDL54-14X3	37.8 54 64.8	10.5 15 18	48 42 37.5	62 70 73.5	2900	7.97 8.82 9.01	11	3.7 4 4.2	80	1182	267	267
80GDL54-14X4	37.8 54 64.8	10.5 15 18	64 56 50	62 70 73.5	2900	10.13 11.76 12.01	15	3.7 4 4.2	80	1267	287	352
80GDL54-14X5	37.8 54 64.8	10.5 15 18	80 70 62.5	62 70 73.5	2900	13.3 14.7 15.0	18.5	3.7 4 4.2	80	1397	320	437
80GDL54-14X6	37.8 54 64.8	10.5 15 18	96 84 75	62 70 73.5	2900	15.9 17.64 18.0	18.5	3.7 4 4.2	80	1482	330	522
80GDL54-14X7	37.8 54 64.8	10.5 15 18	112 98 87.5	62 70 73.5	2900	18.6 20.58 21.0	22	3.7 4 4.2	80	1592	373	607
80GDL54-14X8	37.8 54 64.8	10.5 15 18	128 112 100	62 70 73.5	2900	21.3 23.54 24.0	30	3.7 4 4.2	80	1607	400	692
80GDL54-14X9	37.8 54 64.8	10.5 15 18	144 126 112.5	62 70 73.5	2900	23.9 26.49 27.0	30	3.7 4 4.2	80	1757	421	777
80GDL54-14X10	37.8 54 64.8	10.5 15 18	160 140 125	62 70 73.5	2900	26.6 29.43 30.0	37	3.7 4 4.2	80	1882	432	862

注：1、GDL型除重量及H尺寸稍有不同外，其性能参数与GD型相同。
2、h1尺寸仅用于GDL型。
Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
2.h1 size is used for model GDL only.

GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型号 Type	流量 Capacity (m³/h)	(L/s)	扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power 轴功率 Shaft Power	电机功率 Motor Power	必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
100GDL72-14X2	50.4 72 86.4	14 20 24	32 28 24	64 73 73	2900	6.87 7.53 7.74	11	4.2 4.5 4.7	100	1200	276	187
100GDL72-14X3	50.4 72 86.4	14 20 24	48 42 36	64 73 73	2900	10.3 11.29 11.61	15	4.2 4.5 4.7	100	1335	298	272
100GDL72-14X4	50.4 72 86.4	14 20 24	64 56 48	64 73 73	2900	13.7 15.05 15.48	18.5	4.2 4.5 4.7	100	1460	336	357
100GDL72-14X5	50.4 72 86.4	14 20 24	80 70 60	64 73 73	2900	17.17 18.81 19.35	22	4.2 4.5 4.7	100	1650	381	442
100GDL72-14X6	50.4 72 86.4	14 20 24	96 84 72	64 73 73	2900	20.6 22.57 23.22	30	4.2 4.5 4.7	100	1740	453	527
100GDL72-14X7	50.4 72 86.4	14 20 24	112 98 84	64 73 73	2900	24.03 26.34 27.09	30	4.2 4.5 4.7	100	1825	466	612
100GDL72-14X8	50.4 72 86.4	14 20 24	128 112 96	64 73 73	2900	27.4 30.1 30.96	37	4.2 4.5 4.7	100	1900	493	697
100GDL72-14X9	50.4 72 86.4	14 20 24	144 126 108	64 73 73	2900	30.9 33.9 34.83	37	4.2 4.5 4.7	100	1980	582	782
100GDL72-14X10	50.4 72 86.4	14 20 24	160 140 120	64 73 73	2900	34.3 37.6 38.7	45	4.2 4.5 4.7	100	2070	595	867

注：1、 GDL型除重量及H尺寸稍有不同外，其性能参数与 GD 型相同。
2、h1尺寸仅用于 GDL型。
Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
2.h1 size is used for model GDL only.

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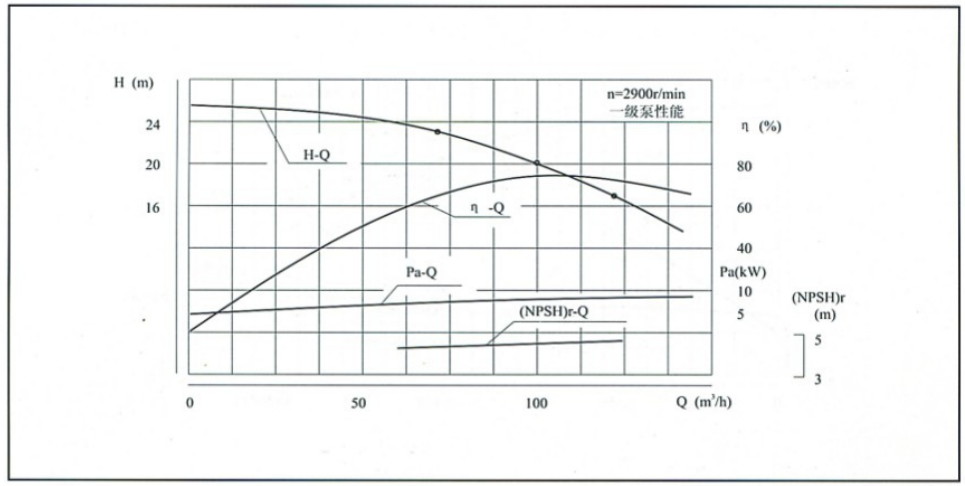
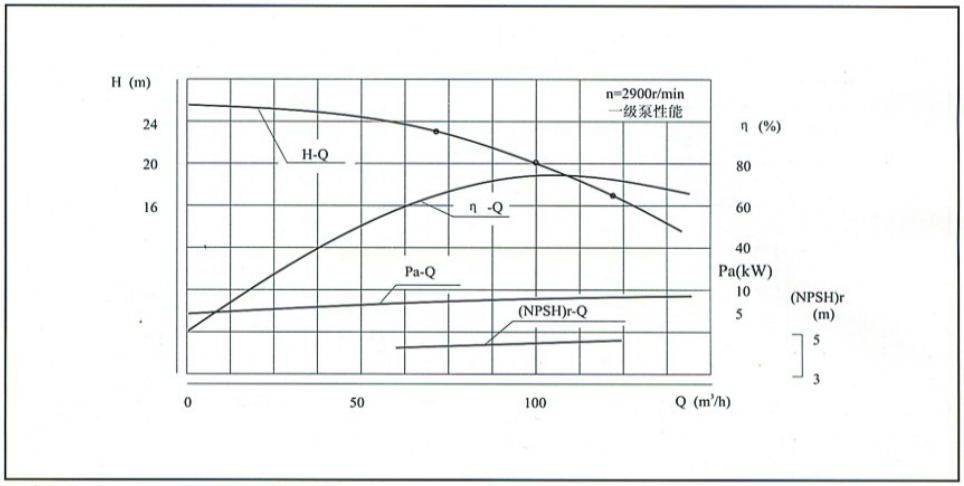
GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型号 Type	流量 Capacity (m³/h)	(L/s)	扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power 轴功率 Shaft Power	电机功率 Motor Power	必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
100GDL100-20X2	70 100 120	19.4 27.7 33.3	46 40 34	65 74 73	2900	13.5 14.7 15.2	18.5	4.2 4.5 4.7	100	1345	345	385
100GDL100-20X3	70 100 120	19.4 27.7 33.3	69 60 51	65 74 73	2900	20.2 22.1 22.8	30	4.2 4.5 4.7	100	1598	480	485
100GDL100-20X4	70 100 120	19.4 27.7 33.3	92 80 68	65 74 73	2900	27.0 29.5 30.4	37	4.2 4.5 4.7	100	1715	525	585
100GDL100-20X5	70 100 120	19.4 27.7 33.3	115 100 85	65 74 73	2900	33.7 36.8 38.1	45	4.2 4.5 4.7	100	1959	622	685
100GDL100-20X6	70 100 120	19.4 27.7 33.3	138 120 102	65 74 73	2900	40.5 44.2 45.7	55	4.2 4.5 4.7	100	2106	726	785
100GDL100-20X7	70 100 120	19.4 27.7 33.3	161 140 119	65 74 73	2900	47.2 51.5 53.3	75	4.2 4.5 4.7	100	2291	887	885
100GDL100-20X8	70 100 120	19.4 27.7 33.3	181 160 136	65 74 73	2900	54.0 58.9 60.9	75	4.2 4.5 4.7	100	2408	910	985
100GDL100-20X9	70 100 120	19.4 27.7 33.3	207 180 153	65 74 73	2900	60.7 66.3 68.5	75	4.2 4.5 4.7	100	2575	935	1085
100GDL100-20X10	70 100 120	19.4 27.7 33.3	230 200 170	65 74 73	2900	67.5 73.6 76.1	90	4.2 4.5 4.7	100	2692	1110	1185

注：1、 GDL型除重量及H尺寸稍有不同外，其性能参数与 GD 型相同。
2、h1尺寸仅用于 GDL型。
Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
2.h1 size is used for model GDL only.

GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型 号 Type	流量 Capacity		扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power		必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
	(m^3/h)	(L/s)				轴功率 Shaft Power	电机功率 Motor Power					
125GDL100-20X2	70 100 120	19.4 27.7 33.3	46 40 34	65 74 73	2900	13.5 14.7 15.2	18.5	4.2 4.5 4.7	125	1185	292	204
125GDL100-20X3	70 100 120	19.4 27.7 33.3	69 60 51	65 74 73	2900	20.2 22.1 22.8	30	4.2 4.5 4.7	125	1315	430	289
125GDL100-20X4	70 100 120	19.4 27.7 33.3	92 80 68	65 74 73	2900	27.0 29.5 30.4	37	4.2 4.5 4.7	125	1410	463	394
125GDL100-20X5	70 100 120	19.4 27.7 33.3	115 100 85	65 74 73	2900	33.7 36.8 38.1	45	4.2 4.5 4.7	125	1585	555	489
125GDL100-20X6	70 100 120	19.4 27.7 33.3	138 120 102	65 74 73	2900	40.5 44.2 45.7	55	4.2 4.5 4.7	125	1865	640	584
125GDL100-20X7	70 100 120	19.4 27.7 33.3	161 140 119	65 74 73	2900	47.2 51.5 53.3	75	4.2 4.5 4.7	125	1960	840	679
125GDL100-20X8	70 100 120	19.4 27.7 33.3	181 160 136	65 74 73	2900	54.0 58.9 60.9	75	4.2 4.5 4.7	125	2055	855	774
125GDL100-20X9	70 100 120	19.4 27.7 33.3	207 180 153	65 74 73	2900	60.7 66.3 68.5	75	4.2 4.5 4.7	125	2225	870	869
125GDL100-20X10	70 100 120	19.4 27.7 33.3	230 200 170	65 74 73	2900	67.5 73.6 76.1	90	4.2 4.5 4.7	125	2370	955	964

注：1、 GDL型除重量及H尺寸稍有不同外，其性能参数与 GD 型相同。
2、h1尺寸仅用于 GDL型。
Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
2.h1 size is used for model GDL only.

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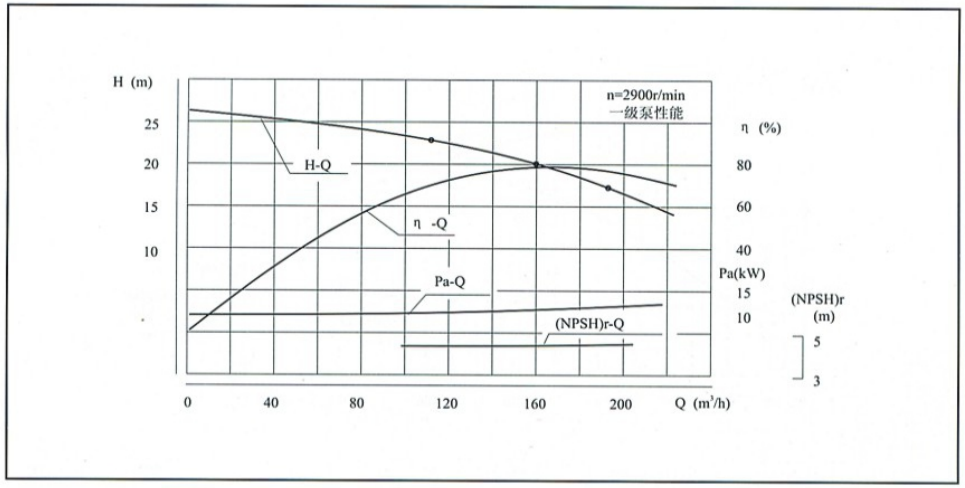
GDL VERTICAL MULTI-STAGE PIPELINE CENTRIFUGAL PUMP

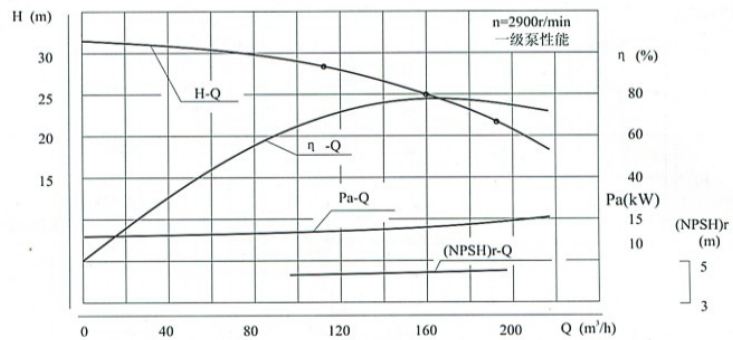
GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型 号 Type	流量 Capacity		扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power		必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
	(m^3/h)	(L/s)				轴功率 Shaft Power	电机功率 Motor Power					
150GDL160-20X2	112 160 192	31.1 44.4 53.3	46 40 34	69 78 77	2900	20.3 22.3 23.1	30	4.4 4.5 4.7	150	1325	422	205
150GDL160-20X3	112 160 192	31.1 44.4 53.3	69 60 51	69 78 77	2900	30.5 33.5 34.6	37	4.4 4.5 4.7	150	1420	452	300
150GDL160-20X4	112 160 192	31.1 44.4 53.3	92 80 68	69 78 77	2900	40.6 44.7 46.2	55	4.4 4.5 4.7	150	1705	613	395
150GDL160-20X5	112 160 192	31.1 44.4 53.3	115 100 85	69 78 77	2900	50.9 55.9 57.8	75	4.4 4.5 4.7	150	1875	820	490
150GDL160-20X6	112 160 192	31.1 44.4 53.3	138 120 102	69 78 77	2900	61.0 67.1 69.3	75	4.4 4.5 4.7	150	1970	836	585
150GDL160-20X7	112 160 192	31.1 44.4 53.3	161 140 119	69 78 77	2900	71.2 78.3 80.9	90	4.4 4.5 4.7	150	2115	922	680
150GDL160-20X8	112 160 192	31.1 44.4 53.3	184 160 136	69 78 77	2900	81.4 89.4 92.4	110	4.4 4.5 4.7	150	2400	1198	775
150GDL160-20X9	112 160 192	31.1 44.4 53.3	207 180 153	69 78 77	2900	91.6 100.6 104.0	110	4.4 4.5 4.7	150	2495	1214	870
150GDL160-20X10	112 160 192	31.1 44.4 53.3	230 200 170	69 78 77	2900	101.7 111.8 115.5	132	4.4 4.5 4.7	150	2670	1340	965

注：1、 GDL型除重量及H尺寸稍有不同外，其性能参数与 GD 型相同。
2、h1尺寸仅用于 GDL型。
Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
2.h1 size is used for model GDL only.

GDL型泵曲线图及性能参数 GDL Type pump curve drawing and performance



型 号 Type	流量 Capacity (m³/h)	(L/s)	扬程 Head (m)	效率 Eff. (%)	转速 Speed (r/min)	功率 Power 轴功率 Shaft Power	电机功率 Motor Power	必需汽蚀余量 (NPSH)r(m)	进出口径 In-outlet apertures (mm)	高度 Height (mm)	重量 Weight (kg)	高度 Height h1 (mm)
150GDL160-25X2	112 160 192	31.1 44.4 53.3	56 50 44	68 77 76	2900	25.10 28.30 30.30	37	5	150	1330	482	205
150GDL160-25X3	112 160 192	31.1 44.4 53.3	84 75 66	68 77 76	2900	37.70 42.40 45.40	55	5	150	1580	645	300
150GDL160-25X4	112 160 192	31.1 44.4 53.3	112 100 88	68 77 76	2900	50.20 56.60 60.50	75	5	150	1745	811	395
150GDL160-25X5	112 160 192	31.1 44.4 53.3	140 125 110	68 77 76	2900	62.80 70.70 75.70	90	5	150	1890	876	490
150GDL160-25X6	112 160 192	31.1 44.4 53.3	168 150 132	68 77 76	2900	75.40 84.90 89.20	110	5	150	1985	896	585
150GDL160-25X7	112 160 192	31.1 44.4 53.3	196 175 154	68 77 76	2900	87.90 99.00 106.00	110	5	150	2240	1301	680
150GDL160-25X8	112 160 192	31.1 44.4 53.3	224 200 176	68 77 76	2900	100.50 113.20 121.10	132	5	150	2455	1421	775

注：1、 GDL型除重量及H尺寸稍有不同外，其性能参数与 GD 型相同。
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Note:1. For model GDL slightly defferent in werght and H size, the performance parameters are identical to model GD .
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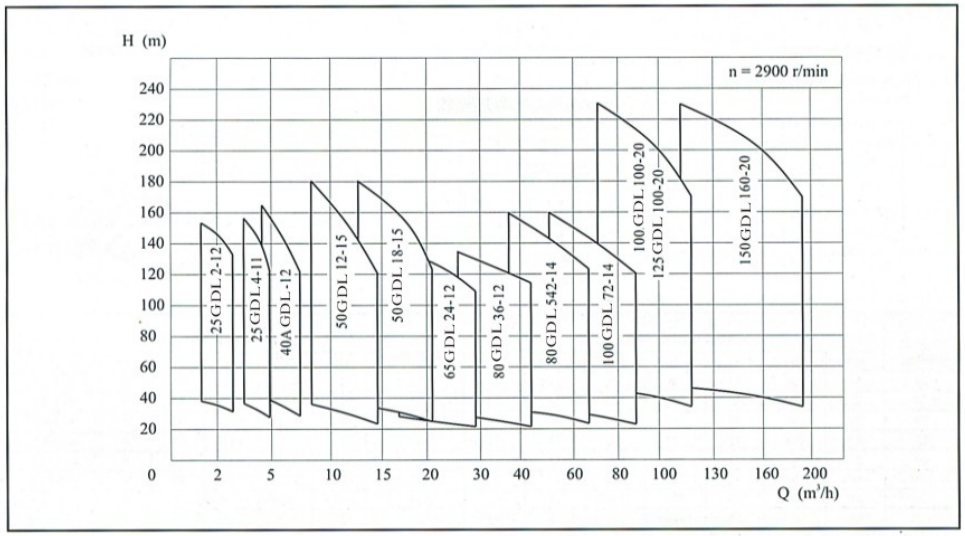
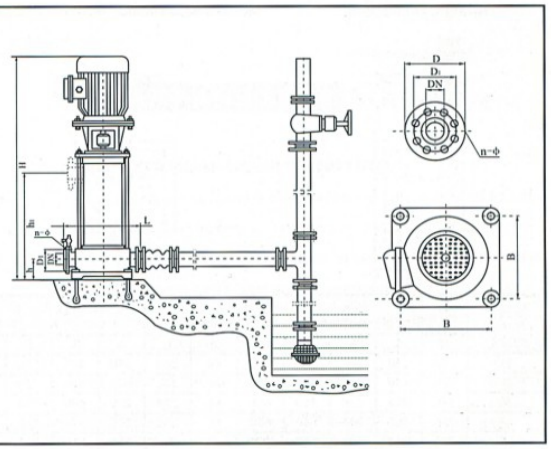
GDL型泵型谱图 GDL Type Pump Atlas Of Style



GDL型泵外形及安装图 GDL Type pump figure and installation drawing

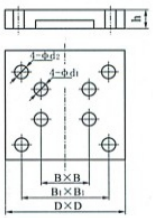
型 号 Type	h	L	B×B	进出口法兰 In-outlet flange DN	D	D1	n-φ
25GDL	80	300	205 4~φ14	φ25	115	85	4~φ14
40GDL	85	330	205 4~φ14	φ40	150	110	4~φ18
50GDL	106	355	235 4~φ18	φ50	165	125	4~φ18
65GDL	106	355	235 4~φ18	φ65	185	145	4~φ18
80GDL	130	420	300 4~φ20	φ80	200	160	8~φ18
100GDL	140	520	350 4~φ20	φ100	220	180	8~φ18
125GDL	150	540	370 4~φ24	φ125	250	210	8~φ18
150GDL	175	580	410 4~φ28	φ150	285	240	8~φ22



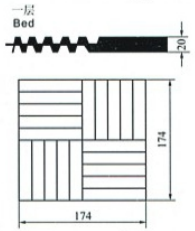
注：1、 GDL型除h外与上表同。
2、尺寸H、h1见性能表。
Note:1. For model GDL besides h and watch same alike.
2.H、h1 size is see performance.

泵附件及其尺寸 Pump spare figure and dimensions

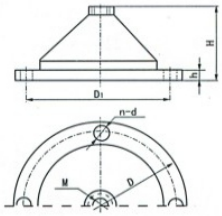
联接板 Connection board



隔振垫 Vibration-insulating pad



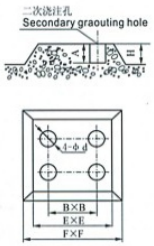
隔振器 Vibration isoaltor



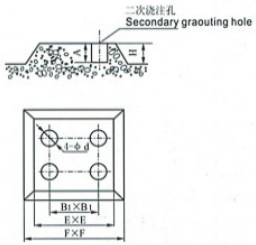
泵口径 Pump caliber	联接板尺寸 Connection board dimensions							隔振器尺寸 Vibration isolator dimensions						
	型号 Type	D	h	B	B1	d1	d2	型号 Type	M	D	D1	H	h	n-d
25	1#	500	55	205	440	18	14	JG2-2	M12	Φ150	Φ130	65	9	4-Φ8.5
40	2#	500	55	205	440	18	14	JG2-2	M12	Φ150	Φ130	65	9	4-Φ8.5
50	3#	600	55	235	540	18	14	JG2-2	M12	Φ150	Φ130	65	9	4-Φ8.5
65	4#	600	55	235	540	18	14	JG2-2	M12	Φ150	Φ130	65	9	4-Φ8.5
80	5#	700	55	300	640	18	18	JG3-2	M16	Φ200	Φ170	87	9	4-Φ12.5
100	6#	700	55	350	640	18	18	JG3-2	M16	Φ200	Φ170	87	9	4-Φ12.5
125	7#	800	55	370	740	18	22	JG4-2	M20	Φ290	Φ260	133	9	4-Φ12.5
150	8#	800	55	410	740	18	22	JG4-2	M20	Φ290	Φ260	133	9	4-Φ12.5

泵基础图及其联接尺寸 Pump basic figure and connection dimensions

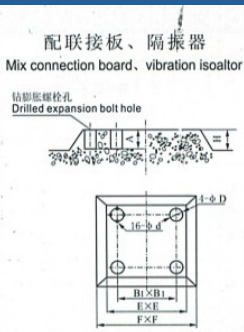
直接联接 Straight connection



配联接板、隔振垫 Mix connection board、vibration-insulating pad



配联接板、隔振器 Mix connection board、vibration isoaltor



泵口径 Pump caliber	直接安装基础尺寸 Straight connection basic dimensions							配联接板、隔振垫基础尺寸 Mix connection board、vibration pad basic dimensions						配联接板、隔振器基础尺寸 Mix connection board、vibration pad basic dimensions					
	H	A	B	E	F	d	H	A	B1	E	F	d	H	A	B1	E	F	D	d
25	200	150	205	500	550	60	200	150	440	750	800	60	200	60	440	750	800	130	8.5
40	200	150	205	500	550	60	200	150	440	750	800	60	200	60	440	750	800	130	8.5
50	250	200	235	550	600	60	250	200	540	850	900	60	250	60	540	850	900	130	8.5
65	250	200	235	550	600	60	250	200	540	850	900	60	250	60	540	850	900	130	8.5
80	300	250	300	600	650	80	300	250	640	950	1050	80	300	60	640	950	1050	170	12.5
100	300	250	350	600	650	80	300	250	640	950	1050	80	300	60	640	950	1050	170	12.5
125	300	250	370	650	700	80	300	250	740	1050	1150	80	300	80	740	1050	1150	260	12.5
150	300	250	410	650	700	80	300	250	740	1050	1150	80	300	80	740	1050	1150	260	12.5

安装说明

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，出长时已由厂家校正，所以安装时无需调整，因此安装时是否方便；

3、安装时必须拧紧地脚螺栓，且每间隔一定时段应对泵进行检查防止其松动，以免水泵起动时发生剧烈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质物（如石块、铁砂等），以免水泵运行时损坏过流部件；

5、为了维修方便和使用安全，在泵的进出口管路上安装一只调节阀及在泵进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，增长水泵的使用寿命；

6、泵用于有吸程场合，应装有底阀，并且进口管路不应有过多弯道，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影响性能，应在泵进口前面安装过滤器；

8、安装管路前转动水泵的转子部件，应无摩擦声或卡死现象，否则应将泵拆开检查原因。

起动与停止

起动前准备

1、用手拨转联轴器,叶轮应无卡磨现象,转动灵活:

2、打开进口阀门，打开排气阀使液体充满整个泵腔，然后关闭排气嘴；

3、如输送热液体时，起动前应预热，升温速度为50℃/h,泵的预热是用所输送液体不断循环来达到，以使个部位受热均匀；

4、应先用手盘动泵几圈以使润滑水进入机械密封端面；

5、点动电机，确定转向是否正确。

Installation Instructions

1. The pipeline should not be supported by the pump in installation, or it would be easily damaged;

2. Both pump and motor are integrally structured and calbrated by the manufacturer at ex-works, so no need to do any adjustment in installation and leaving a very convenient work;

3. Tighten the foot bolts and check them every a certain period ot time to prevent them from being loose, thus preventing the pump performance from being affected due to a severe vibration of it at starting;

4. Check if there is any hard objects(such as stones, iron-stand etc.)inside the flow path of the pump before installation so as to prevent the flow-passing parts from being damaged during its running;

5. For a convenient service and operation safety, mount an adjusting valve on both inlet and outlet pipelines and a piezometer near both inlet and outlet, and for the pump of a high head, a check valve before the gate valve, so as to meet with the accident of power loss such as an abrupt cut-off, thus making sure the pump runs under the best working conditions and extending its duration of use;

6. In case of a suction head for the pump to be used with, a foot valve has to be mounted and both inlet and outlet pipelines should not have too many bends and water or air leak so as to avoid affecting its suction performance;

7. Mount a filter before the inlet to have any foreign matters stopped there to prevent the flow path against being blocked up and thus keeping the pump's performance well;

8. Move the rotor part before mounting pipelines to see if there is any frictional sound or jamming and disassemble the pump and check the causes if any.

Start and Stop

Preparations before starting

1. Turn the coupling with hand, the impeller should not be jammed and moves flexibly;

2. Open the inlet valve and the exhaust valve to let the liquid full of the pump cavity, then close the exhaust valve;

3. Preheat the pump with a temperature rise rate 50℃/h if used to transport hot liquid, the preheat is made by the continuous circulation of the liquid being transported and, in this way, every part of it is evenly heated;

4. First move the pump by several turns to have the lubricating water into the end-face of the mechanical seal;

5. Start the motor to see if it moves in the correct dtection.

起动与停车

起动与运行

1、全开进口阀门，关闭吐出管路阀门；

2、接通电源，当泵达到正常转速后，再逐渐打开吐出管路上的阀门，并调节到所需工况；

3、注意观察仪表读数，检查轴封泄露情况，正常时机械密封泄漏为3滴/分，检查电机、轴承处温度<75℃, 如果发现异常情况,应及时处理。

停车

1、逐渐关闭吐出管路阀门,切断电源:

2、关闭进口阀门；

3、如环境温度低于0℃,应将泵内液体方尽,以免冻裂水泵；

4、如长期停用,应将泵拆卸清洗,包装保管；

泵的维护与保养

运行中的维护与保养

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长期运行；

3、禁止泵在大流量工况运行时，电机超电流长期运行；

4、定期检查泵运行中的电机电流值，尽量使泵在设计工况范围内运行；

5、泵在运行中应有专人看管，以免发生意外；

6、泵每运行500小时应对轴承进行加油；

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,应停车检查,必要时可更换易损零件及轴承,机组大修期一般为一年。

机械密封的维护与保养

1、机械密封润滑液应清洁无固体颗粒:

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；

Start and Stop

Start and run

1. Fully open the inlet valve and close the valve on the outlet pipeline;

2. Turn on the power and when the pump reaches the normal rotating speed, gradually open the valve on the outlet pipeline and adjust it to the desired working conditions;

3. Take care of viewing the readings on the meter and check the leakage from the shaft seal, which, as a mechanical seal under the normal state, is 3 drops/min, and the temperature on both motor and bearing, which should be<75 ℃. Settle it at once in case of an abnormal condition.

Stop

1. Gradually close the valve on the outlet pipeline an dcut off the power;

2. Close the inlet valve;

3. Drain the liquid inside of the pump out completely in case of an ambient temperature below zero to prevent the pump against being frozen;

4. Disassemble the pump and clean it, then pack and store it in case of a long time stop of use.

MAINTENANCE

Maintenance in running

1. The inlet pipeline must be highly sealed without water. air leak;

2. Prohibit the pump from running for a long time under the vaour corroded status;

3. Prohibit the pump from running under the working condition with a heavy flow and the motor from moving for a long time under and over-current;

4. Periodically check the current value of the motor during pump's running and have the pump run within the designed working conditions as can as possible;

5. Have a special person look after the pump when it runs to avoid any accidents;

6. Lubricate the bearings every 500h of the pump's running;

7. After a long time running, stop the pump and take a check when the noise and vibration of the unit is found increased and, if necessary, replace the easily worn out parts and the bearing. The limited period for the unit to be exhausted is one year in general.

Maintenance of mechanical seal

1. The lubricating liquid for the mechanical seal should be clean without any solid grains;

2. Prohibit the mechanical seal from working in dry-wearing;

3. Turn the pump(motor) by several turns before starting so as to prevent the mechanical seal from being broken and damaged due to an abrupt starting.

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故障原因及排除方法 Failure causes and solutions

故障 Failure	产生原因 Possible causes	排除方法 Solutions
水泵不出水 No water out of pump	1. 泵壳内未加储液或储液不足 2. 吸入管路漏气 3. 转速太低 4. 吸程太高或吸入管路过长 5. 机械密封泄露量过大 6. 吸入管路气体不能从出口排出 1.No or inadequate storage liquid in pump casing 2.Air leak of suction pipeline 3. Rotation speed too low 4. Suction lift too high or suction pipeline too long 5. Excessive leak of mechanical seal 6. Gas in suction pipeline failing to be vented from outlet	1. 加足储液 2. 检查并排除漏气现象 3. 调整转速 4. 降低吸程或缩短吸入管路 5. 修复或更换 6. 使之排出 1.Feed liquid to make it adequate 2.Check and remove the air leak 3.Adjust the rotation speed 4.Reduce the suction lift or shorten the suction pipeline 5.Repair or replace it 6.Discharge it
杂音和振动较大 Noise and vibration	1. 底脚不稳 2. 泵轴弯曲 3. 汽蚀现象 4. 轴承磨损严重 5. 进口管路内有杂物 6. 泵与电动机两者主轴不同心 1.Footing instable 2.Pump shaft bent 3.Cavitation 4.Bearing seriously worn-out 5.Impurities in inlet pipeline 6.No coaxiality between spindles of pump and motor	1. 加固 2. 更换或校正 3. 调整工况 4. 更换 5. 清除杂物 6. 调整同轴度 1.Reinforce it 2.Replace or correct it 3.Adjust working conditions 4.Replace the bearing 5.Remove impurities 6.Adjust the coaxiality
出水量不足 Unenough flow with pump	1. 叶轮流道与吸入管被堵塞 2. 叶轮或叶轮密封磨损严重 3. 功率不足或转速太低 1.Jamming of impeller channel and suction pipe 2.Impeller or impeller seal seriously worn-out 3.Underpower or rotation speed too low	1. 排除堵塞物 2. 更换口环 3. 加足功率、调至额定转速 1.Remove stemming 2.Replace the wear ring 3.Increase the power and adjust the rotation speed to the rating
轴功率消耗过大 Excessive power consumption of shaft	1. 流量过大 2. 转速太高 3. 泵轴弯曲或叶轮卡碰 4. 泵内流道堵塞或被卡住 1.Excessive flow 2.Rotation speed too high 3.Pump shaft bent or impeller seized or knocked 4.Flow channel inside pump jammed or seized	1. 升高出口压力 2. 适当降低 3. 更换或校正 4. 排除堵塞物 1.Rise the outlet pressure 2.Reduce the speed properly 3.Replace or calibrate it 4.Remove stemming