

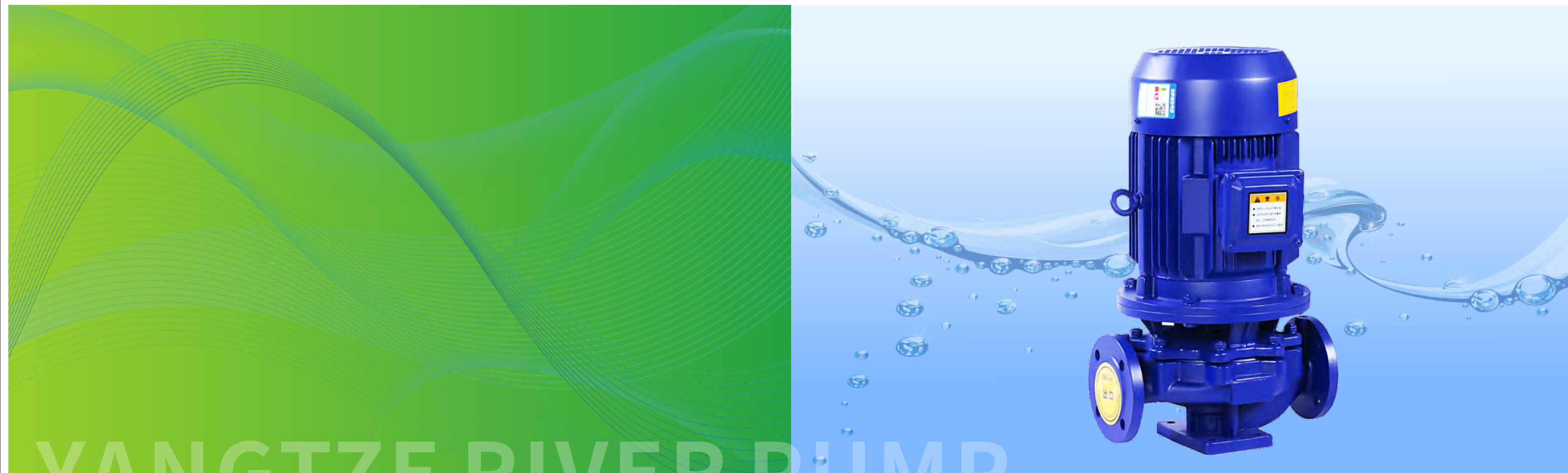
由于我们在不断努力改进产品，我们保留样本数据更改的权利，敬请谅解。

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

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

ISG系列单级单吸立式离心泵

ISG Series Single-stage Single-suction Vertical Centrifugal Pump



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■ 概述

ISG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ISO2558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型立式离心泵。

流量范围1.5~2400m³/h，扬程范围4.5~160m，分基本型、扩流型、A、B、C切割型等250多种规格。根据流量介质和温度不同，设计制造成同性能参数的IRG（GRG）型热水泵、IHG型化工泵、YG型油泵和IHGB型立式防爆化工泵系列产品。

■ 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心重合于泵脚中心，增强了泵的运行稳定性和寿命。
- 2、安装方便。进出口径相同并在同一中心线上，可像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，叶轮零部件均做动静平衡测试，保证了转子部件的单、双面平衡，使泵在运行中更平稳。
- 4、无渗漏。轴封采用耐磨硬质合金机械密封，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、泵进口压力≤0.4MPa；
- 2、泵系统压力即泵吸入口压力+泵扬程≤1.6MPa，订货时请注明系统工作压力；
- 3、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<0.2mm，如介质为带有细小颗粒的请在订货时说明。
- 4、周围环境温度不超过40℃，相对湿度不超过95%。

■ Summary

Model ISG 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. The flow range is 1.5~2400m³/h and the stroke range 4.5~160m and there are basic type,by-passtype,A.B.C cutting type etc. more than 250 specifications. And per the different flow medium and temperature,IRG(GRG) hot-water pump,IHG chemical pump and YG oil pump and IHGB vertical non-explosive chemical pump.etc.Series products.of the same type and same proprty data have been designed and made.

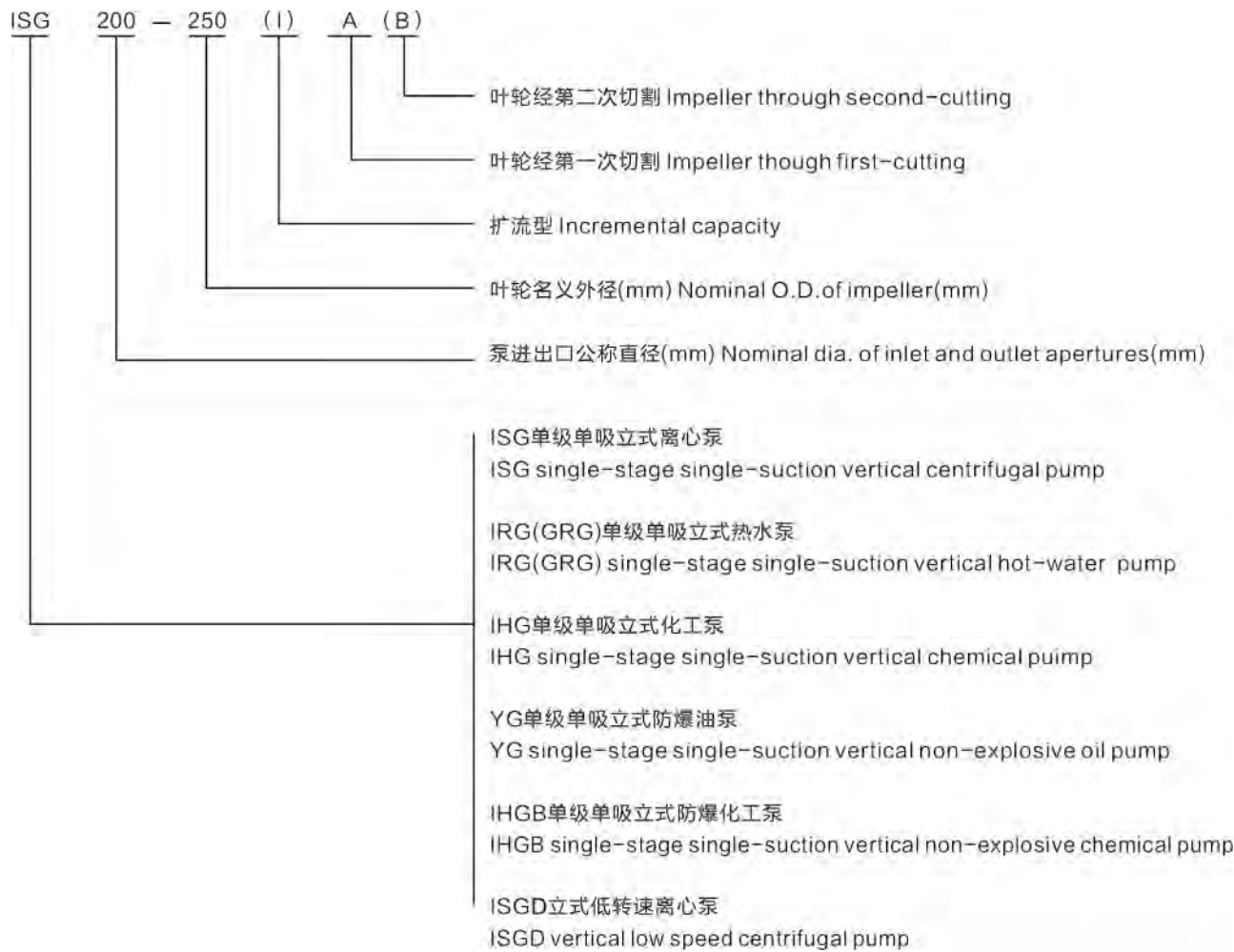
■ Features

- 1.Compact structure, small volume, beautiful outlook. The lower barycenter of the vertical structure which co-incides 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 any part of the pipeline just as a valve. The motor is covered with a rain-proof cap so that operation can be done outdoors. Mounting feet are equipped with the pump so that it can be stably mounted.
- 3.Stable running, low noise, high concentricity of components.We are using high quality bearings for motor.It is allowed to add lubrication during runing,Impellers are well done by dynamic and static balance test,ensure the rotor is single-double-side balanced.It can provide the pump runing with low vibration and improve the using condition.
- 4.No leakage. The shaft is mechaically 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 com-ponents.
- 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.Pump inlet pressure is less than 0.4MPa
- 2.Pumpsystemthatistosaythepressureatthesuction+ the stroke 1.6MPa, please notify the pressure for the system at work when ordering.
- 3.Proper medium: the medium for pure-water pumps should have no corrosive liquid and the volume of non-melting mediumsolid should not be over 0.1% of the unit volune and the graininess less than 0.2mm. Please notify at oredr if themediumtobeusedwithsmallgrain.
- 4.No larger than 40 of the ambient temperature, no higher than 1000m of the above-sea level and no more than 95% of the relative humidity.

■ 型号意义 Model Meaning



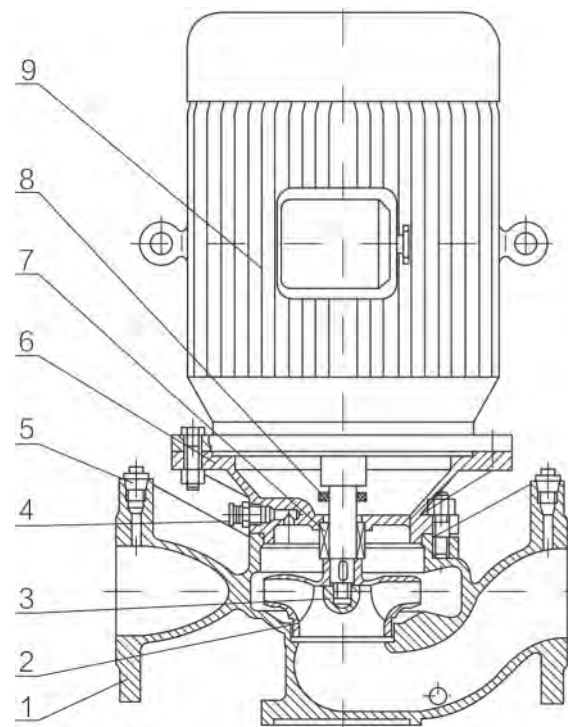
■ 产品应用

- 1、ISG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℃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、浴室冷热水循环增压及设备配套等。
- 2、IRG(GRG)型立式热水泵，适用于有供热系统的民用及企事业单位的建筑住房供暖及热水增压、循环、输送等生产工艺用热系统，如：电站、热电站、余热利用、冶金、化工、纺织、木材加工、造纸等工业锅炉高温热水，使用温度100℃以下。
- 3、IHG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℃~100℃。
- 4、YG型立式防爆油泵，适用于石油、轻纺、化工、机械等行业输送无腐蚀、易燃、易爆液体，被输送介质温度-20℃~100℃，介质密度 $\rho < 1000 \text{ kg/m}^3$ 。
- 5、IHGB型立式防爆化工泵输送不含固体颗粒具有腐蚀性其粘度类似水且易燃易爆的液体。适用于轻纺、石油、化工、冶金、矿山、制药和合成纤维等部门，使用温度-20℃~100℃。

Summary

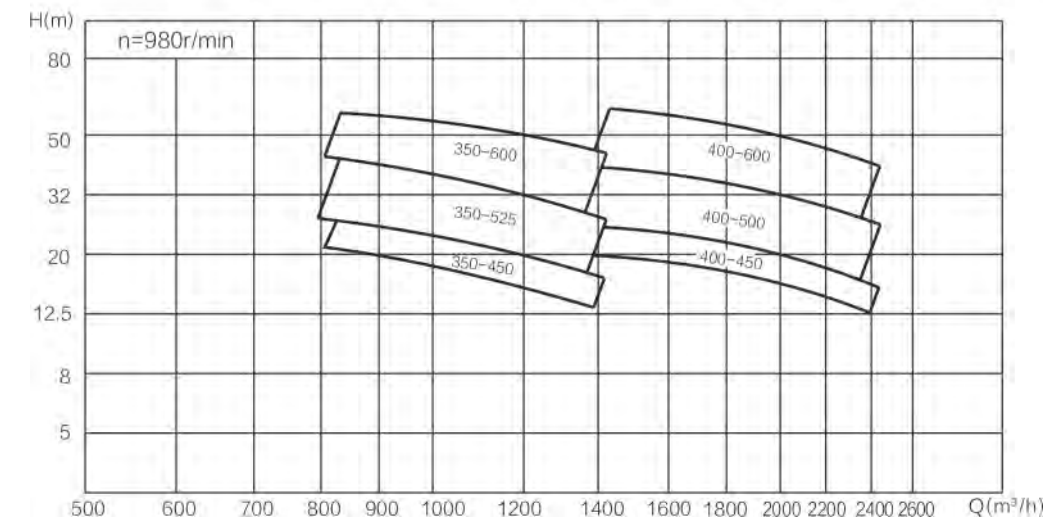
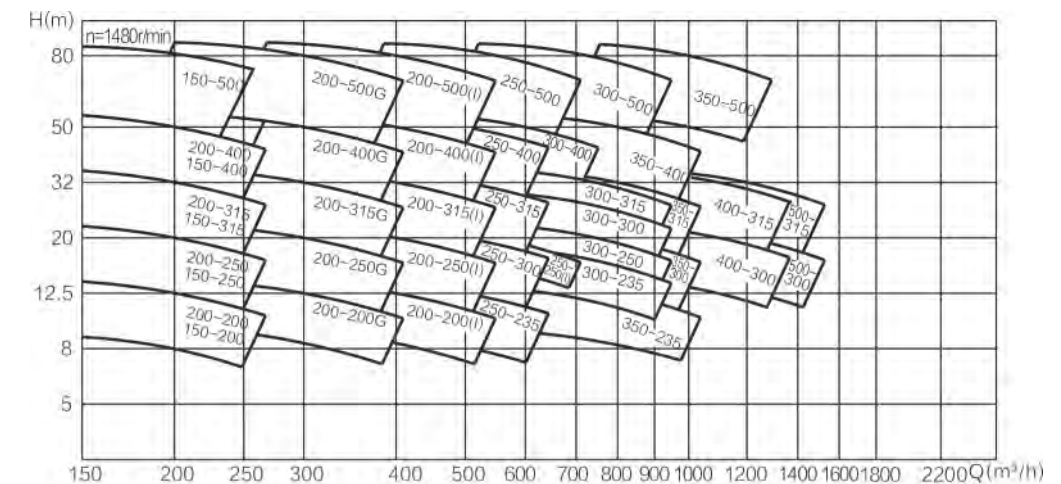
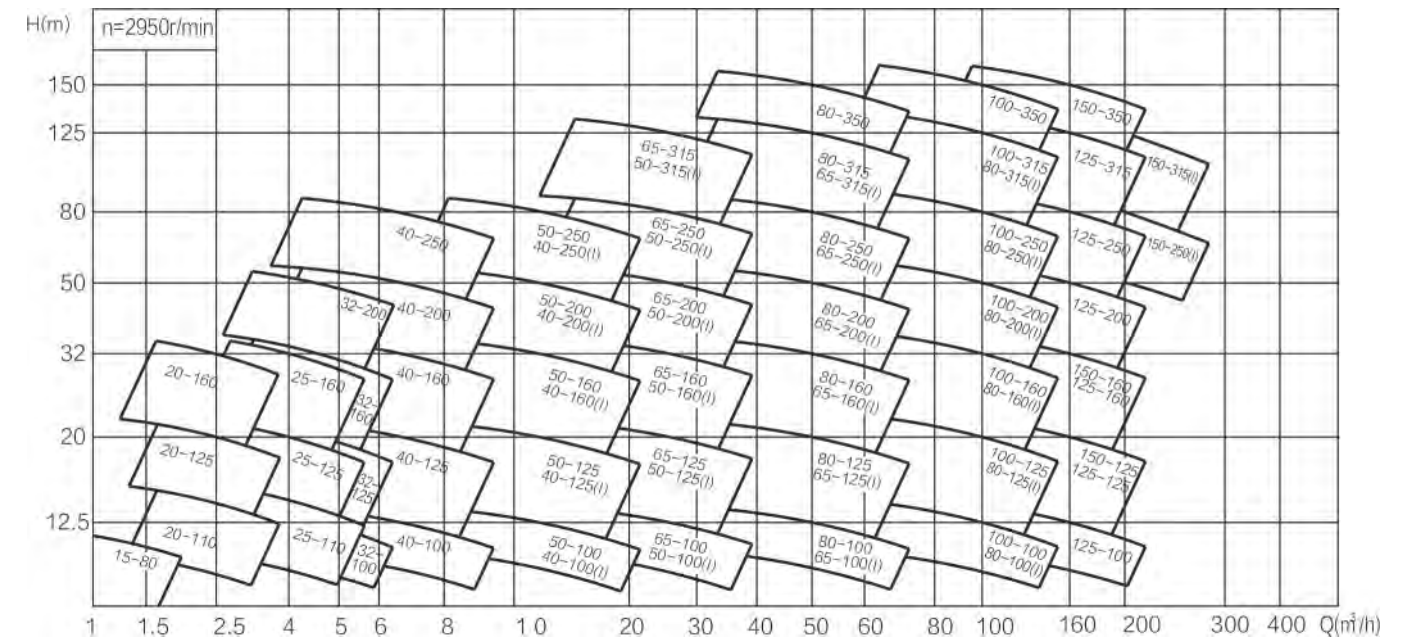
- 1.ISG series vertical centrifugal pump is used to trans-
port pure-water and other liquids, the physical properties of which are similar to those of pure-
water,in industrial and cities'water supply and drainage, high buildings' booster water supply, gardens irrigation, fire-fighting booster, remote water
supply, warming systems, circular booster of cold&hot water in bath rooms as well as in compenions of equipments, the operation medium temperature
is below 80℃ .
- 2.IRG(GRG) series vertical hot-water pump is used for the warming hot-water booster circular system and the heat-transport system of production
technology in the units where heat-supply systems are available, such as the power station, thermal power station, residual hest utilization, metallurgy,
chemistry, textile, wood-processing, paper-making etc. in-dustrial boilers' high-temperature hot-water,the operation temperature is below 100℃ .
- 3.IHG series vertical chemical pump is used to trans-
port the liquids containing no solid grain, corrosive and the viscosity of which is similar to water or
the depart-ments of light&textile industry, petroleum, chemical industry, metqallurgy, electricity, paper-making, food, medicine and synthetic ibre
etc.,the operation temperature is -20℃ ~ 100℃ .
- 4.YG series vertical non-explosive oil pump is used to light&textile, chemical, mechanical etc., industries to transport non-corrosive, flammable,
explosive liquids, the medium temperature is -20℃ ~ 100℃ and density pless than 1000kg/m3.
- 5.IHGB series vertical non-explosive chemical pump is used to transport the liquids containing no solid grain, corrosive and the viscosity of which is
similar to water for the department of light&textile industry, petroleum, chemical industry, metallurgical industry, mining, medicine and synthetic fibre
etc. the operation temperature is -20℃ ~ 100℃ .

ISG(ISGD)型泵结构图 The configuration of ISG(ISGD) type pump



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 valve	1
5	螺塞 Plug	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

ISG型谱图 ISG atlas of style



■ ISG型泵性能参数 ISG type pump performance data

型号 Type	流量 Capacity		扬程 Head m	功率 Power KW	转速 Speed r/min	效率 Eff. %	气蚀余量 (NSPH)r m	重量 Weight KG
	m³/h	L/s						
ISG300-500	540 720 900	150 200 250	85 80 70	250	1480	78.6	5.5	1685
ISG300-500A	506 675 844	140.6 187.5 234.4	74.4 70 61.2	200	1480	77.6	5.5	1565
ISG300-500B	468 625 780	130 173.6 216.7	63.8 60 52.5	160	1480	76.7	5.5	1472
ISG300-500C	425 570 710	118 158.3 197.2	53.2 50 43.8	110	1480	75.7	5.5	1345
ISG350-235	600 800 960	167 222 267	14 12.5 10.5	37	1480	80.8	4.5	1050
ISG350-300	600 800 960	167 222 267	22.5 20 17.5	75	1480	78.9	4.5	1230
ISG350-315	600 800 960	167 222 267	35.5 32 28.5	90	1480	80.8	4.5	1650
ISG350-400	600 800 960	167 222 267	55 50 45.5	160	1480	80.8	4.5	1950
ISG350-450	900 1200 1400	250 333.3 389	23 20 16	90	980	81.4	6	1300
ISG350-450A	850 1120 1300	236.1 311.1 361.1	20 17 13	75	980	80.5	6	1200
ISG350-525	900 1200 1400	250 333.3 389	35 32 25	160	980	81.7	6	1850
ISG350-525A	850 1120 1300	236.1 311.1 361.1	31 28 23	132	980	80.8	6	1740
ISG350-525B	780 1050 1200	216.1 291.7 333.3	27 24 19	110	980	79.8	6	1600
ISG350-600	900 1200 1400	250 333.3 389	53 50 44	250	980	81.1	6.5	2750
ISG350-600A	850 1120 1300	236.1 311.1 361.1	46 44 36	200	980	80.2	6.5	2500
ISG350-600B	780 1050 1200	216.7 291.7 333.3	40 38 33	160	980	79.2	6.5	2450
ISG350-315G	670 960 1150	186 267 320	35 32 26	132	1480	81.1	6.5	1750
ISG350-315GA	600 860 1030	167 239 287	30 28 23	110	1480	80.2	6.5	1600
ISG350-315GB	575 820 985	159 228 273	26 24 19	90	1480	79.2	6.5	1250
ISG350-400G	670 960 1150	186 267 320	53 50 40	200	1480	81.1	7	2500
ISG350-400GA	600 860 1030	167 239 287	46 44 38	160	1480	80.2	7	2450
ISG350-400GB	575 820 985	159 228 273	40 38 32	132	1480	79.2	7	2350

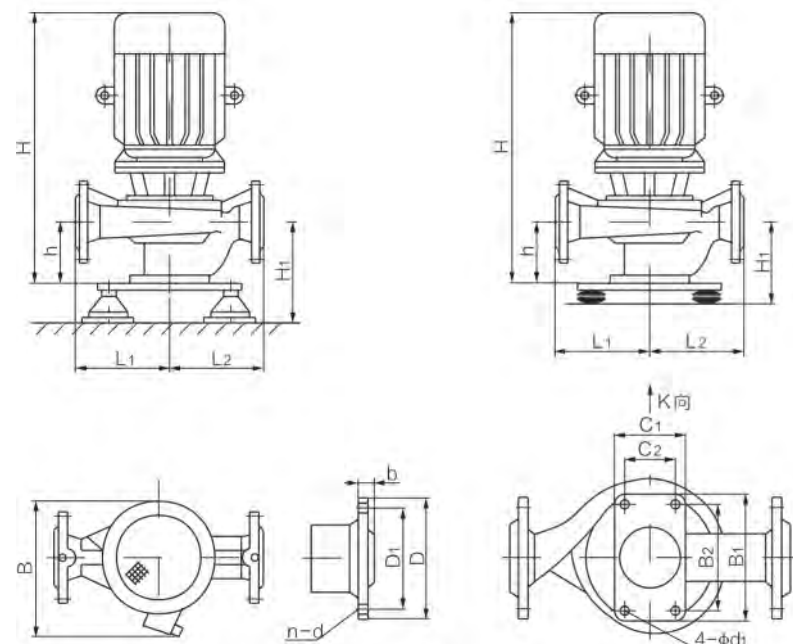
型号 Type	流量 Capacity		扬程 Head m	功率 Power KW	转速 Speed r/min	效率 Eff. %	气蚀余量 (NSPH)r m	重量 Weight KG
	m³/h	L/s						
ISG350-450G	670 960 1150	186 267 320	22 20 16	75	980	81.1	6	1250
ISG350-450GA	575 820 985	159 228 273	19 17 14	55	980	80.2	6	950
ISG350-525G	670 960 1150	186 267 320	35 32 26	132	980	81.1	6	1850
ISG350-525GA	600 860 1030	167 239 287	30 28 23	110	980	80.2	6	1700
ISG350-525GB	575 820 985	159 228 273	26 24 19	90	980	79.3	6	1550
ISG350-620G	670 960 1150	186 267 320	53 50 44	200	980	80.1	7	2700
ISG350-620GA	600 860 1030	167 239 287	46 44 38	160	980	79.1	6.5	2600
ISG350-620GB	575 820 985	159 228 273	40 38 32	132	980	78.2	6.5	2200
ISG350-315(I)	900 1200 1400	250 333 400	35 32 26	160	1480	80.9	6.5	1800
ISG350-315(I)A	820 1100 1300	228 305 361	30 28 23	132	1480	80.1	6.5	1750
ISG350-315(I)B	750 1000 1200	208 278 333	26 24 19	110	1480	79.0	6.5	1600
ISG350-400(I)	900 1200 1400	250 333 400	53 50 44	250	1480	81.7	7.5	2500
ISG350-400(I)A	820 1100 1300	228 305 361	46 44 38	200	1480	80.8	7	2450
ISG350-400(I)B	750 1000 1200	208 278 333	40 38 32	160	1480	79.8	7	2350
ISG400-300	820 1080 1300	228 300 361	23 20 16	90	1480	78.2	6	1450
ISG400-315	820 1080 1300	228 300 361	36.5 32 27	132	1480	81.1	6	1740
ISG400-450	1500 2000 2400	416.7 555.6 666.7	23 20 15	160	980	80.6	6.5	2420
ISG400-450A	1400 1860 2250	388.9 516.7 625	20 17 14	132	980	79.3	6.5	1940
ISG400-500	1500 2000 2400	416.7 555.6 666.7	34 32 27	250	980	82.8	6.5	2980
ISG400-500A	1400 1860 2240	388.9 516.7 625	30 28 24	200	980	81.9	6.5	2840
ISG400-500B	1300 1750 2100	361.1 486.4 583.3	26 24 21	160	980	80.9	6.5	2710
ISG500-300	1000 1200 1450	277.8 333 403	23 20 16	110	1480	81.7	6	1800
ISG500-315	1000 1200 1450	277.8 333 403	34.5 32 27	160	1480	80.9	6	2070

■ ISG型泵性能参数 ISG type pump performance data

型号 Type	流量 Capacity		扬程 Head m	功率 Power KW	转速 Speed r/min	效率 Eff. %	气蚀余量 (NSPH)r m	重量 Weight KG
	m³/h	L/s						
ISGD40-160	2.2 3.2 3.9	0.61 0.89 1.1	8.3 8 7.5	0.37	1480	32.9	2.3	44
ISGD40-200	2.2 3.2 3.9	0.61 0.89 1.1	12.8 12.5 12	0.75	1480	25.0	2.3	53
ISGD40-250	2.2 3.2 4.2	0.61 0.89 1.17	20.5 20 18.5	1.1	1480	14.6	2.3	76
ISGD40-250A	2.0 3.0 3.7	0.56 0.83 1.03	18 17.5 16.3	0.75	1480	13.7	2.3	67
ISGD40-250B	1.9 2.8 3.5	0.53 0.78 0.97	15.4 15 14	0.55	1480	12.7	2.3	57
ISGD40-125(I)	4.4 6.3 8.2	1.2 1.75 2.3	5.3 5.0 4.5	0.25	1480	51.7	2.3	43
ISGD40-160(I)	4.4 6.2 7.5	1.2 1.75 2.08	8.3 8.0 7.5	0.55	1480	46.0	2.3	52
ISGD40-200(I)	4.4 6.3 7.5	1.2 1.75 2.08	12.8 12.5 12	0.75	1480	39.9	2.3	62
ISGD40-250(I)	4.4 6.3 7.5	1.2 1.75 2.08	20.3 20 19.4	1.5	1480	31.5	2.3	86
ISGD40-250(I)A	4.1 5.8 6.7	1.1 1.6 1.86	17.8 17.5 17	1.1	1480	30.6	2.3	76
ISGD40-250(I)B	3.8 5.4 6.1	1.1 1.5 1.69	15.4 15 14.5	0.75	1480	29.6	2.3	67
ISGD50-125	4.4 6.3 8.2	1.2 1.75 2.3	5.3 5 4.5	0.25	1480	51.7	2.3	43
ISGD50-160	4.4 6.3 7.5	1.2 1.75 2.08	8.3 8 7.5	0.55	1480	46.0	2.3	52
ISGD50-200	4.4 6.3 7.5	1.2 1.75 2.08	13 12.5 12	0.75	1480	39.9	2.3	62
ISGD50-250	4.4 6.3 7.5	1.2 1.75 2.08	20.5 20 19.4	1.5	1480	31.5	2.3	86
ISGD50-250A	4.1 5.8 6.7	1.14 1.61 1.86	17.9 17.5 17	1.1	1480	30.6	2.3	76
ISGD50-250B	3.8 5.4 6.1	1.06 1.5 1.69	15.4 15 14.5	0.75	1480	29.6	2.3	67
ISGD50-125(I)	8.75 12.5 15	2.4 3.5 4.17	5.38 5 4.5	0.37	1480	61.2	2.5	52
ISGD50-160(I)	8.75 12.5 15	2.4 3.5 4.17	8.6 8 6.88	0.55	1480	57.1	2.5	62

型号 Type	流量 Capacity		扬程 Head m	功率 Power KW	转速 Speed r/min	效率 Eff. %	气蚀余量 (NSPH)r m	重量 Weight KG
	m³/h	L/s						
ISGD50-200(I)	8.75 12.5 15	2.4 3.5 4.17	13.2 12.5 11.4	1.1	1480	51.7	2.5	69
ISGD50-200(I)A	8.2 11.8 13.5	2.3 3.3 3.75	11.6 11 10	0.75	1480	50.7	2.5	62
ISGD50-250(I)	8.75 12.5 15	2.4 3.5 4.17	20.5 20 19.1	2.2	1480	45.3	2.5	100
ISGD50-250(I)A	8.2 11.7 14.1	2.3 3.3 3.92	17.9 17.5 16.8	1.5	1480	44.4	2.5	90
ISGD50-250(I)B	7.5 10.8 12.3	2.1 3 3.42	15.3 15 14.4	1.1	1480	43.4	2.5	81
ISGD50-315(I)	8.75 12.5 15	2.4 3.5 4.17	32 31.5 30.5	4	1480	37.1	2.5	124
ISGD50-315(I)A	8.3 11.9 14	2.3 3.3 3.92	28.8 28.5 28	3	1480	36.2	2.5	115
ISGD50-315(I)B	7.85 11.3 12.6	2.2 3.1 3.4	25.8 25.5 24.5	3	1480	35.2	2.5	109
ISGD65-125	8.75 12.5 15	2.4 3.5 4.17	5.4 5 4.5	0.37	1480	61.2	2.5	52
ISGD65-160	8.75 12.5 15	2.4 3.5 4.17	8.6 8 6.88	0.55	1480	57.1	2.5	62
ISGD65-200	8.75 12.5 15	2.4 3.5 4.17	13.2 12.5 11.4	1.1	1480	51.7	2.5	69
ISGD65-200A	8.2 11.8 13.5	2.3 3.3 3.75	11.6 11 10	0.75	1480	50.7	2.5	62
ISGD65-250	8.75 12.5 15	2.4 3.5 4.17	20.5 20 19.1	2.2	1480	45.3	2.5	100
ISGD65-250A	8.2 11.7 13.5	2.3 3.3 3.75	17.9 17.5 16.8	1.5	1480	44.4	2.5	90
ISGD65-250B	7.5 10.8 12.3	2.1 3 3.42	15.3 15 14.4	1.1	1480	43.4	2.5	81
ISGD65-315	8.75 12.5 15	2.4 3.5 4.17	32 31.5 30.5	4	1480	37.1	2.5	124
ISGD65-315A	8.3 11.9 14	2.3 3.3 3.92	28.8 28.5 27.5	3	1480	36.2	2.5	124
ISGD65-315B	7.85 11.3 12.6	2.2 3.1 3.4	25.8 25.3 24.5	3	1480	35.2	2.5	118
ISGD65-125(I)	17.5 25 30	4.86 6.94 8.33	5.5 5 4.25	0.75	1480	67.4	3	67
ISGD65-160(I)	17.5 25 30	4.86 6.94 8.33	8.75 8 7	1.1	1480	65.9	3	74

■ ISG(ISGD)型泵安装尺寸图 ISG(ISGD) type pump dimension figure



法兰尺寸 Flange Dimensions				
DN	D	D1	n-d	b
φ25	φ115	φ85	4-φ14	16
φ32	φ140	φ100	4-φ19	18
φ40	φ150	φ110	4-φ19	18
φ50	φ165	φ125	4-φ19	20
φ65	φ185	φ145	4-φ19	20
φ80	φ200	φ160	8-φ19	22
φ100	φ220	φ180	8-φ19	24
φ125	φ250	φ210	8-φ19	26
φ150	φ285	φ240	8-φ23	26
φ200	φ340	φ295	12-φ23	30
φ250	φ405	φ355	12-φ28	32
φ300	φ460	φ410	12-φ28	32
φ350	φ520	φ470	16-φ28	36
φ400	φ580	φ525	16-φ31	38
φ500	φ715	φ650	20-φ34	42

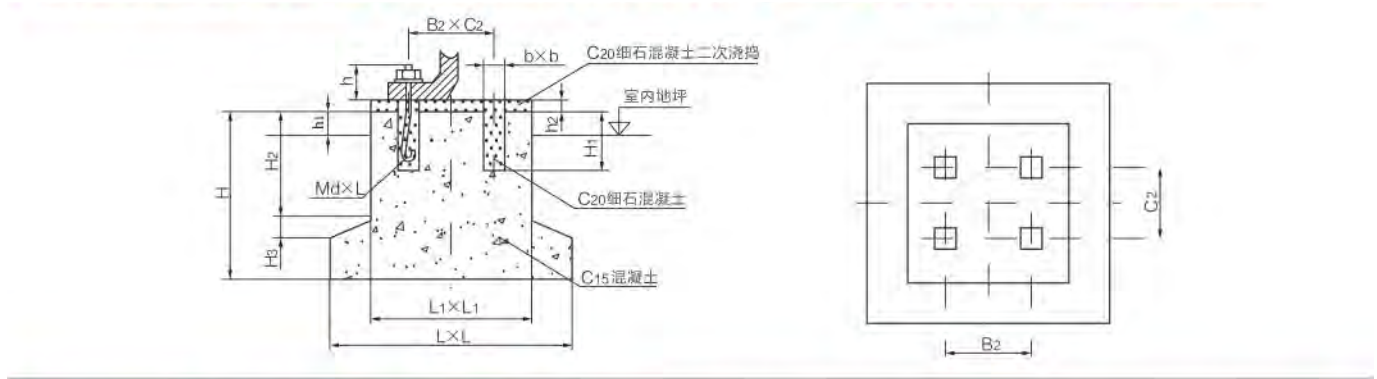
■ ISG型泵安装尺寸表 ISG type pump dimension table

型号 Type	外形尺寸 Figure Dimensions						隔振装置及安装尺寸 Isolation selection and installing dimensions							
							隔振垫 Vibration isolated pad		隔振器 Vibration isolator		联接板 Connection board			
	L1	L2	B	H	h	DN	Type	H1	Type	H1	Type	H1	Type	
15-80	90	90	133.5	333	40	G1/2	SD41-0.5	60	-	-	-	-	-	
20-110	130	130	152.5	382	70	G3/4	SD41-0.5	90	-	-	-	-	-	
20-125	150	150	237.5	425	70	G3/4	SD41-0.5	90	-	-	-	-	-	
20-160	150	150	257.5	420	65	G3/4	SD41-0.5	85	-	-	-	-	-	
25-110	130	130	152.5	377	65	φ25	SD41-0.5	85	-	-	-	-	-	
25-125	130	130	212.5	427	70	φ25	SD41-0.5	90	-	-	-	-	-	
25-125A	130	130	212.5	427	70	φ25	SD41-0.5	90	-	-	-	-	-	
25-160	150	150	257.5	440	70	φ25	SD41-0.5	90	-	-	-	-	-	
25-160A	150	150	237.5	430	70	φ25	SD41-0.5	90	-	-	-	-	-	
32-100	130	130	152.5	397	80	φ32	SD41-0.5	100	-	-	-	-	-	
32-125	130	130	237.5	440	80	φ32	SD41-0.5	100	-	-	-	-	-	
32-125A	130	130	237.5	440	80	φ32	SD41-0.5	100	-	-	-	-	-	
32-160	160	160	257.5	450	80	φ32	SD41-0.5	155	-	-	-	-	-	
32-160A	160	160	237.5	440	80	φ32	SD41-0.5	155	-	-	-	-	-	
32-200	170	170	287.5	531	90	φ32	SD41-0.5	165	-	-	-	-	-	
32-200A	170	170	257.5	506	90	φ32	SD41-0.5	165	-	-	-	-	-	
40-100	125	135	152.5	397	80	φ40	SD41-0.5	155	JG1-2	178	ISG-1			
40-100A	125	135	152.5	397	80	φ40	SD41-0.5	155	JG2-2	178	ISG-1			
40-125	135	145	237.5	447	85	φ40	SD41-0.5	160	JG1-2	178	ISG-1			

■ ISG型泵安装尺寸表 ISG type pump dimension table

型号 Type	外形尺寸 Figure Dimensions						隔振装置及安装尺寸 Isolation selection and installing dimensions							
							隔振垫 Vibration isolated pad		隔振器 Vibration isolator		联接板 Connection board			
	L1	L2	B	H	h	DN	Type	H1	Type	H1	Type	H1	Type	
40-125A	135	145	237.5	447	85	φ40	SD41-0.5	160	JG1-2	183	ISG-1			
40-160	160	160	257.5	487	85	φ40	SD41-0.5	160	JG1-2	183	ISG-1			
40-160A	160	160	257.5	457	85	φ40	SD41-0.5	160	JG1-2	183	ISG-1			
40-160B	160	160	237.5	447	85	φ40	SD41-0.5	160	JG1-2	183	ISG-1			
40-200	170	170	310	558	95	φ40	SD41-0.5	170	JG1-2	193	ISG-2			
40-200A	170	170	310	558	95	φ40	SD41-0.5	170	JG1-2	193	ISG-2			
40-200B	170	170	287.5	538	95	φ40	SD41-0.5	170	JG1-2	193	ISG-2			
40-250	200	200	347.5	620	95	φ40	SD41-0.5	170	JG1-2	193	ISG-2			
40-250A	200	200	347.5	620	95	φ40	SD41-0.5	170	JG1-2	193	ISG-2			
40-250B	200	200	347.5	620	95	φ40	SD41-0.5	170	JG1-2	193	ISG-2			
40-100(I)	140	150	237.5	455	95	φ40	SD41-0.5	170	JG1-2	193	ISG-1			
40-100(I)A	140	150	237.5	455	95	φ40	SD41-0.5	170	JG1-2	193	ISG-1			
40-125(I)	150	150	257.5	474	100	φ40	SD41-0.5	175	JG1-2	198	ISG-1			
40-125(I)A	150	150	237.5	464	100	φ40	SD41-0.5	175	JG1-2	198	ISG-1			
40-160(I)	160	160	287.5	545	100	φ40	SD41-0.5	175	JG1-2	198	ISG-2			
40-160(I)A	160	160	257.5	510	100	φ40	SD41-0.5	175	JG1-2	198	ISG-2			
40-160(I)B	160	160	257.5	510	100	φ40	SD41-0.5	175	JG1-2	198	ISG-2			
40-200(I)	190	190	247.5	620	100	φ40	SD41-0.5	175	JG1-2	198	ISG-2			
40-200(I)A	190	190	310	565	100	φ40	SD41-0.5	175	JG1-2	198	ISG-2			
40-200(I)B	190	190	287.5	545	100	φ40	SD41-0.5	175	JG1-2	198	ISG-2			
40-250(I)	220	220	432.5	732	100	φ40	SD41-0.5	185	JG2-2	220	ISG-3			
40-250(I)A	220	220	432.5	732	100	φ40	SD41-0.5	185	JG2-2	220	ISG-3			
40-250(I)B	220	220	347.5	632	100	φ40	SD41-0.5	185	JG2-2	220	ISG-3			
50-100	140	150	237.5	460	95	φ50	SD41-0.5	170	JG1-2	193	ISG-1			
50-100A	140	150	237.5	460	95	φ50	SD41-0.5	170	JG1-2	193	ISG-1			
50-125	150	150	257.5	475	100	φ50	SD41-0.5	175	JG1-2	198	ISG-1			
50-125A	150	150	237.5	465	100	φ50	SD41-0.5	175	JG1-2	198	ISG-1			
50-160	160	160	287.5	545	100	φ50	SD41-0.5	175	JG1-2	198	ISG-2			
50-160A	160	160	257.5	510	100	φ50	SD41-0.5	175	JG1-2	198	ISG-2			
50-160B	160	160	257.5	510	100	φ50	SD41-0.5	175	JG1-2	198	ISG-2			
50-200	190	190	347.5	620	100	φ50	SD41-0.5	175	JG1-2	198	ISG-2			
50-200A	190	190	310	565	100	φ50	SD41-0.5	175	JG1-2	198	ISG-2			
50-200B	190	190	287.5	545	100	φ50	SD41-0.5	175	JG1-2	198	ISG-2			
50-250	220	220	432.5	732	100	φ50	SD41-0.5	175	JG2-2	220	ISG-3			
50-250A	220	220	432.5	732	100	φ50	SD41-0.5	175	JG2-2	220	ISG-3			
50-250B	220	220	347.5	632	100	φ50	SD41-0.5	175	JG2-2	220	ISG-3			
50-100(I)	145	160	257.5	485	100	φ50	SD41-0.5	175	JG2-2	220	ISG-3			
50-100(I)A	145	160	237.5	475	100	φ50	SD41-0.5	175	JG2-2	220	ISG-3			
50-125(I)	165	175	287.5	545	105	φ50	SD41-0.5	180	JG2-2	225	ISG-3			
50-125(I)A	165	175	287.5	520	105	φ50	SD41-0.5	180	JG2-2	225	ISG-3			
50-160(I)	180	180	310	567	105	φ50	SD41-0.5	180	JG2-2	225	ISG-3			
50-160(I)A	180	180	310	567	105	φ50	SD41-0.5	180	JG2-2	225	ISG-3			
50-160(I)B	180	180	287.5	547	105	φ50	SD41-0.5	180	JG2-2	225	ISG-3			
50-200(I)	190	190	347.5	635	115	φ50	SD41-1	185	JG2-2	230	ISG-3			

■ ISG型泵无隔振安装基础图 Inatallation basic drawing for ISG type pump non-isolation

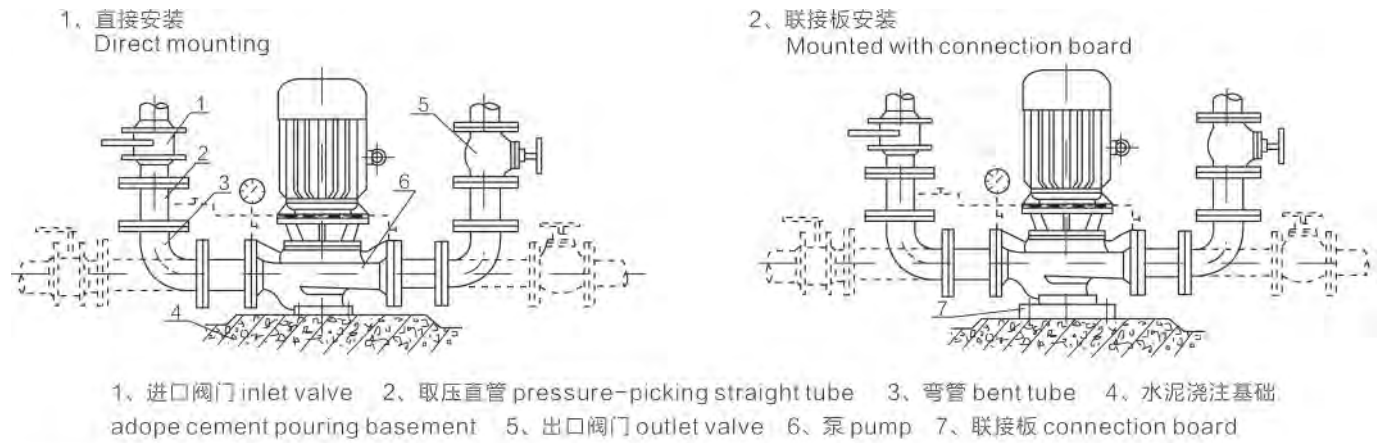


■ 超过500公斤重量水泵无隔振基础尺寸表 Table of basic dimension for over-500kg non-islation water pump

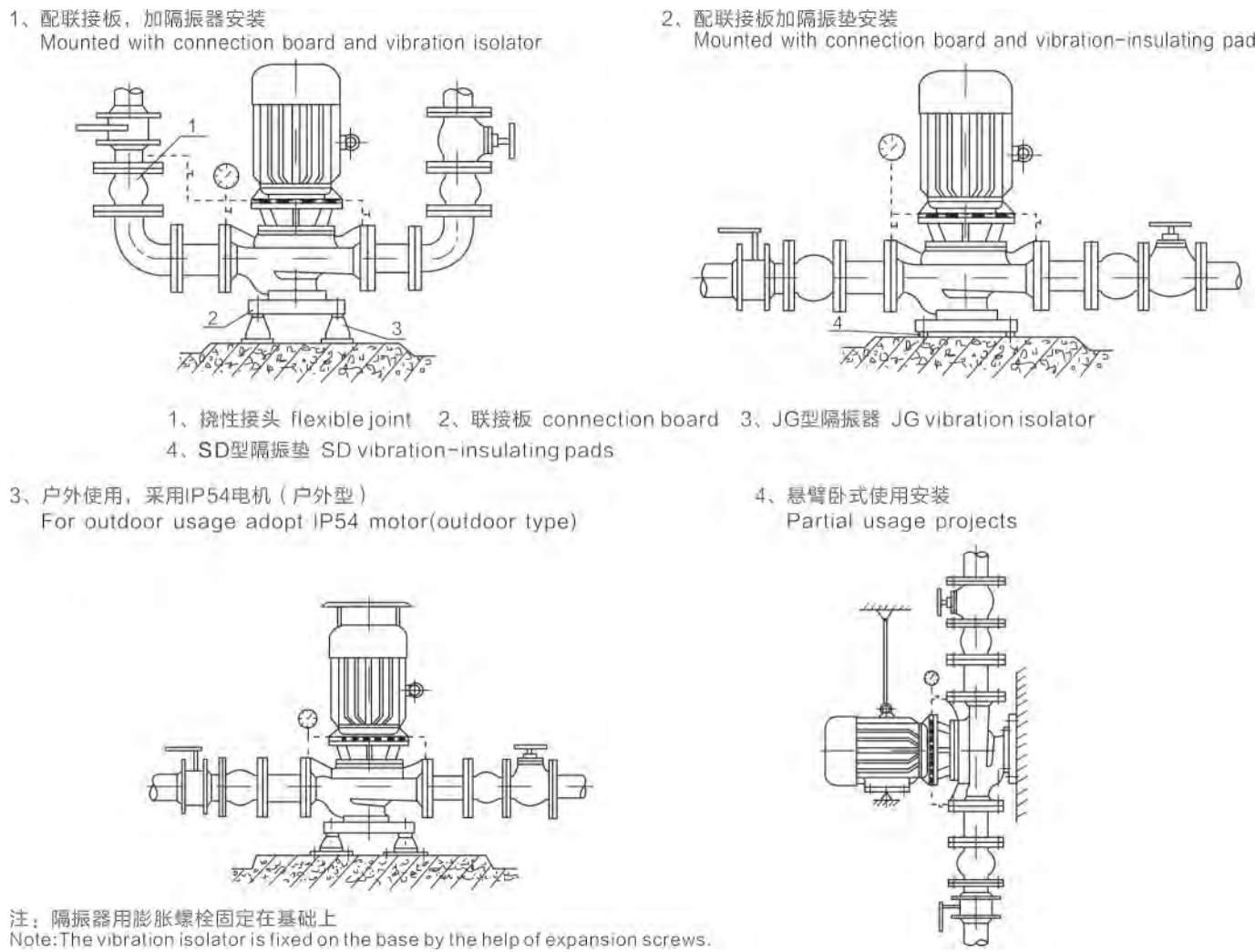
型号Type	B ₂	C ₂	b	L	L ₁	H	H ₁	H ₂	H ₃	h	h ₁	h ₂	Md×L
80-315(I)	220	160	100	850	650	880	400	550	80	65	50	50	M20×400
100-315	220	160	100	850	650	880	400	550	80	65	50	50	M20×400
100-350	280	200	100	900	730	880	400	550	80	70	50	50	M20×400
125-250	220	160	100	850	650	880	400	550	80	65	50	50	M20×400
125-315	300	250	100	950	750	880	400	550	80	65	50	50	M20×400
150-250(I)	260	210	100	900	700	880	400	550	80	65	50	50	M20×400
150-315(I)	260	210	100	900	700	880	400	550	80	65	50	50	M20×400
150-350	300	250	100	950	750	880	400	550	80	65	50	50	M20×400
150-400	260	210	100	900	700	880	400	550	80	65	50	50	M20×400
150-500	300	250	100	950	750	880	400	550	80	65	50	50	M20×400
200-315	260	210	100	900	700	880	400	550	80	65	50	50	M20×400
200-400	300	250	100	950	750	880	400	550	80	65	50	50	M20×400
200-315G	300	250	100	950	750	880	400	550	80	65	50	50	M20×400
200-400G	300	250	100	950	750	880	400	550	80	65	50	50	M20×400
200-500G	300	250	100	950	750	880	400	550	80	65	50	50	M20×400
200-200(I)	300	250	100	950	750	880	400	550	80	65	50	50	M20×400
200-250(I)	300	250	100	950	750	880	400	550	80	65	50	50	M20×400
200-315(I)	300	250	100	950	750	880	400	550	80	65	50	50	M20×400
200-400(I)	300	250	100	950	750	880	400	550	80	65	50	50	M20×400
250-250(I)	350	300	100	1000	800	880	400	550	80	65	50	50	M20×400
250-235	350	300	100	1000	800	880	400	550	80	65	50	50	M20×400
250-315	350	300	100	1000	800	880	400	550	80	65	50	50	M20×400
250-400	430	330	120	1100	850	1100	500	750	90	90	50	50	M24×500
250-500	450	350	120	1200	900	1100	500	750	90	100	50	50	M24×500
300-235	400	300	120	1100	850	1100	500	750	90	90	50	50	M24×500
300-250	400	300	120	1100	850	1100	500	750	90	90	50	50	M24×500
300-300	430	330	120	1100	850	1100	500	750	90	90	50	50	M24×500
300-315	450	350	120	1200	900	1100	500	750	90	100	50	50	M24×500
300-400	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500
300-450	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500
300-500	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500
350-235	450	400	120	1200	900	1100	500	750	90	120	50	50	M24×500
350-300	450	400	120	1200	900	1100	500	750	90	120	50	50	M24×500
350-315	450	400	120	1200	900	1100	500	750	90	120	50	50	M24×500
350-400	450	400	120	1200	900	1100	500	750	90	120	50	50	M24×500
350-450	450	400	120	1200	900	1100	500	750	90	120	50	50	M24×500
350-525	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500
350-600	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500
350-315G	450	400	120	1200	900	1100	500	750	90	120	50	50	M24×500
350-400G	450	400	120	1200	900	1100	500	750	90	120	50	50	M24×500
350-450G	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500
350-525G	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500
350-620G	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500
350-315(I)	450	400	120	1200	900	1100	500	750	90	120	50	50	M24×500
350-400(I)	450	400	120	1200	900	1100	500	750	90	120	50	50	M24×500
400-300	480	400	120	1200	900	1100	500	750	90	120	50	50	M24×500
400-315	480	400	120	1200	900	1100	500	750	90	120	50	50	M24×500
400-450	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500
400-500	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500
500-300	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500
500-315	480	430	120	1400	1000	1400	500	915	100	120	50	50	M24×500

■ 泵的安装方式 Installation methods for pump

一、硬性联接 Rigid joint



二、柔性联接 Soft joint



■ 安装说明

- 1、安装前应检查机组紧固固体有无松动现象，泵体流道有无异物堵塞，以免水泵运行时损坏叶轮和泵体。
- 2、安装时管道重量不应加在水泵上，以免使泵变形。
- 3、安装时必须拧紧地脚螺栓，以免启动时振动对泵性能的影响。
- 4、为了维修方便和使用安全，在泵的进出口管路上各安装一只调节阀及在泵出口附件安装一只压力表，以保证在额定扬程和流量范围内运地，确保泵正常运行，延长水泵的使用寿命。
- 5、安装后拨动泵轴，叶轮应无磨擦声或卡死现象，否则应将泵拆开检查原因。
- 6、泵分硬性联接安装和柔性联接安装两种（见泵的安装方式）。

■ 泵启动前准备、启动与停车

启动前准备：

- 1、试验电机转向是否正确，从电机顶部往泵看为顺时针旋转，试验时间要短，以免使机械密封于磨损。
- 2、打开排气阀使液体充满整个泵体，待满后关闭排气阀。
- 3、检查各部位是否正常。
- 4、用手盘动泵以使润滑油进入机械密封端面。
- 5、高温型应先进行预热，升温速度50℃/小时，以保证各部受热均匀。

启动：

- 1、全开进口阀门。 2、关闭吐出管路阀门。
- 3、启动电机，观察泵运行是否正确。
- 4、调节出口阀开度以所需工况，如用户在泵出口处装有流量计或压力表，应通过调节出口阀开度使泵在性能参数表所列的额定点上运转，如用户在泵出口处装有流量计或压力表，应通过调节出口阀门开度，测量泵的电机电流，使电机在额定电流内运行，否则将造成泵超负荷运行（即大电流运行）至使电机烧坏。调整好的出口阀门开启大与小管道工况有关。
- 5、检查轴封泄漏情况，正常时机械密封泄漏应<3滴/分。
- 6、检查电机，轴承处温度≤70℃。

停车：

- 1、高温型先降温，降温速度<10℃/分，把温度降低到80℃以下，才能停车。
- 2、关闭吐出管路阀门。 3、停止电机。
- 4、关闭进出口阀门。
- 5、如长期停车，应将泵内液体放尽。

■ Installation description

- 1.Before installation check carefully the pump fittings have been fastened,non-clogging in the pump flow channel,in case the damage of pump volute and impeller when run the pump.
- 2.Do not allowed the weight of the install pipe direct on pump.It may case the pump bend.
- 3.Fasten the foundation bolt,the vibration will effect the pump performance.
- 4.For the future pump maintains and operate,a regulating valve and a pressure gauge are required on both of inlet and outlet.Ensure the pump flow and head are in the allowable range,pump work normally,to have a longer life-time.
- 5.Rotate pump shaft,there should no grating or lock,otherwise disassemble and study reasons.
- 6.Two type of basic foundations, flexible joint and rigid joint.(see installation methods for pump).

■ Pump pre-start,Start and Stop

Pre-start:

- 1.Trigger motor,ensure the direction of rotation is correct,check from the end fan of motor, only accept for short time,in case dry run to damage the seal.
- 2.Fill water into the pump and open the vent valve release air.Once full of water close the vent valve.
- 3.Check all parts of pump in normal.
- 4.Rotary the pump with hand,lubricate seal faces.
- 5.In high temperature model,the pre-heat is necessary.Rate of increase temperature is 50℃/hour,ensure all parts heat evenly.

Start

- 1.Open the inlet valve completely.
- 2.Close the outlet valve completely.
- 3.Start motor and make sure the direction of rotation is correct.
- 4.Adjust the regulating valve to required point,if fitted with flow meter and pressure gauge,through operate discharge valve to reach the rated point. Measure voltage of the motor,ensure the current is within rated, otherwise over load will damage the motor.The adjustment rate of valve depends on the pipe size.
- 5.Check the condition of seal leak.normally quantity<3drop/min.
- 6.Check motor bearing temperature≤70℃.

Stop

- 1.Cool the motor before shut down,for high temperature model,the speed rate <10℃/min.
- 2.Close the outlet valve. 3.Shutdown motor. 4.Close the inlet valve.
- 5,Drain water completely,if long time out job.

■ 泵的维护

- 1、运行中的维护
(1)进口管道必须充满液体，禁止泵在汽蚀状态下长期运行。
(2)定时检查电机电流值，不得超过电机额定电流。
(3)泵进行长期运行后，由于机械磨损，使机组噪音及振动增大时，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。
- 2、机械密封维护
(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)启动前应先盘动泵（电机）几圈，以免突然启动造成石墨环断裂损坏。
(4)密封泄漏量运行3滴/分。否则应检查。

■ Maintenance

- 1.Maintenance of operating
(1)Fill liquid in suction pipeline,must not operate pump over cavitation.
(2)Regular check the current of the motor,not allow the over load.
(3)Mechanical seal will wear after long time operate,it may happen the louder noise and enlarge vibration,if so shutoff motor,change spares or bearings if necessary.Overhaul period is one year.
- 2.Maintenance of mechanical seal
(1)The lubricant should be clean with no solid content.
(2)Dry run without lubricant is not allowed.
(3)Before normally operating,rotate motor shaft with hand for a several circle,in case damage the seal ring by suddenly trigger.
(4)Seal leak allowed quantity<3drop/min,otherwise check it.

■ 易损件（机械密封盒轴承） Quik-wear spares(seal and bearing)

电机功率 Motor	机械密封规格 Seal specification	轴承规格 bearing specification	电机功率 Motor	机械密封规格 Seal specification	轴承规格 bearing specification
0.12kW、0.18kW	KL108-12	201	37kW(4 stage) 45kW	KL109-45	46313、313Z1
0.25kW、0.37kW	KL108-14	202	55kW 75kW(2 stage) 90kW(2 stage) 37kW(6 stage)	KL109-55	46314、314Z1
0.55kW、0.75kW、 1.1kW(2 stage)	KL109-20	46204、180204Z1	75kW(4 stage) 90kW(4 stage)	KL109-55	46317、317Z1
1.1kW(4 stage)、1.5kW	KL109-20	46205、180205Z1	45kW(6 stage) 55kW(6 stage)	KL109-75	46317、317Z1
2.2kW(2 stage)	KL109-20	46205、180205Z1	110kW(2 stage)	KL109-55	46316、316Z1
2.2kW(4 stage)、3kW	KL109-25	46206、180206Z1	75kW(6 stage) 90kW(6 stage) 110kW(4、6stage) 132kW(4、6stage)	KL109-65	46319、319Z1
4kW	KL109-25	46306、180306Z1	160kW(4 stage) 200kW(4 stage)	KL109-75	46319、319Z1
5.5kW(2 stage) 7.5kW(2 stage)	KL109-25	46308、180308Z1	250kW(4 stage)	KL109-75	46321、321Z1
5.5kW(4 stage) 7.5kW(4 stage)	KL109-35	46308、180308Z1	80-200B	KL109-35	46308、180308Z1
11kW(2 stage) 15kW(2 stage) 18.5kW(2 stage)	KL109-35	46309、309Z1	350-400A	KL109-75	46319、319Z1
11kW(4 stage) 15kW(4 stage)	KL109-40	46309、180309Z1	Note:The default stage power is the same.		
22kW(2 stage)	KL109-35	46311、311Z1			
18.5kW(4 stage) 22kW(4 stage)	KL109-45	46311、311Z1			
30kW(2 stage) 37kW(2 stage)	KL109-35	16312、312Z1			
30kW(4 stage)	KL109-45	46312、312Z1			