

IR IS 型

单级单吸清水离心泵

INSTRUCTION FOR INSTALLATION
AND OPERATION OF TYPE IS PUMP

安装使用说明书

Instruction On Installation And Operation

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1、概述

IR IS 型泵系单级单吸（轴向吸入）清水离心泵，适用于工业和城市给水、排水，亦可用于农业排灌。供输送清水或物理及化学性质类似清水的其它液体之用。温度不得高于 80℃。

IR IS 型泵系列性能范围（按设计点计）

转 速 n : 2900r/min 和 1450 r/min

进口直径: 50~200mm

流 量 Q : 6.3~400 mm

扬 程 H : 5~125 mm

IS 型系列泵型谱及主要性能参数见图 2 和表 1。

型号说明，例如：

IS80-65J-160A

IS——单级单吸清水离心泵

80——吸入口直径（mm）

65——排出口直径（mm）

J——表示降速使用

160——叶轮名义直径（mm）

A——A、B、C 叶轮直径经第一、二、三次切割

2、结构说明

IR IS 型泵系根据国际标准 IS02858 所规定的性能和尺寸设计的，主要由泵体（1）、泵盖（2）、叶轮（3）、轴（4）、密封环（5）、轴套（6）及悬架轴承部件（12）等所组成（图 1）。

IR IS 型泵的 泵体和泵盖是从叶轮背面处剖分的，即通常所说的后开门结构形式。其优点是检修方便，检修时不动泵体、吸入管路、排出管路和电动机，即可退出转子部件进行维修。

1. General

The pump of type IR IS is a single stage, single suction (axial suction) centrifugal for pumping clean water and the other liquids physically and chemically similar to the clean water. The temperature of liquid shall not be over 80°C. This pump is suitable for public water supply and drainage duties in industries and land irrigation also in agriculture.

Design duty and features: (at design point)

Speed n: 2900rpm and 1450rpm

Inlet diameter: 50 to 200mm

Capacity Q: 6.3to 400m³/h

Head H: 5 to 125m

See Fig 2 and chart 1 for size and performance parameters of IR IS pump.

Details should be supplied by manufacturer.

Description of pump symbol figures:

For example: IS 80-65J-160A

IS—— Single stage, single suction clean water centrifugal pump

80—— Inlet diameter (mm)

65—— Outlet diameter (mm)

J——Rated speed dropped

160: Nominal impeller diameter

A——A、 B、 C separately represents that impeller diameter is cut the first the second and the third time

2. Construction

IR IS type pump is designed with performance and dimensions specified to the International Standard ISO 2858. The major components are casing (1) casing cover (2) impeller (3) shaft (4) wear ring (5) shaft sleeve (8) bearing bracket (12) etc. (See Fig 1)

IR IS pump is divided into the casing and the casing cover from the back face of the impeller i.e. back pull-out design.

泵的壳体（即泵体泵盖）构成泵的工作室，叶轮、轴和轴套等为泵的转子部件。悬架轴承部件支承着泵的转子部件，滚动轴承承受泵的径向力和部分轴向力。

为了平衡泵的轴向力，大多数泵的叶轮前、后均设有密封环，并在叶轮后盖板上设有平衡孔。由于有些泵的轴向力不大，叶轮背面未设密封环和平衡孔。

IS 型泵结构图

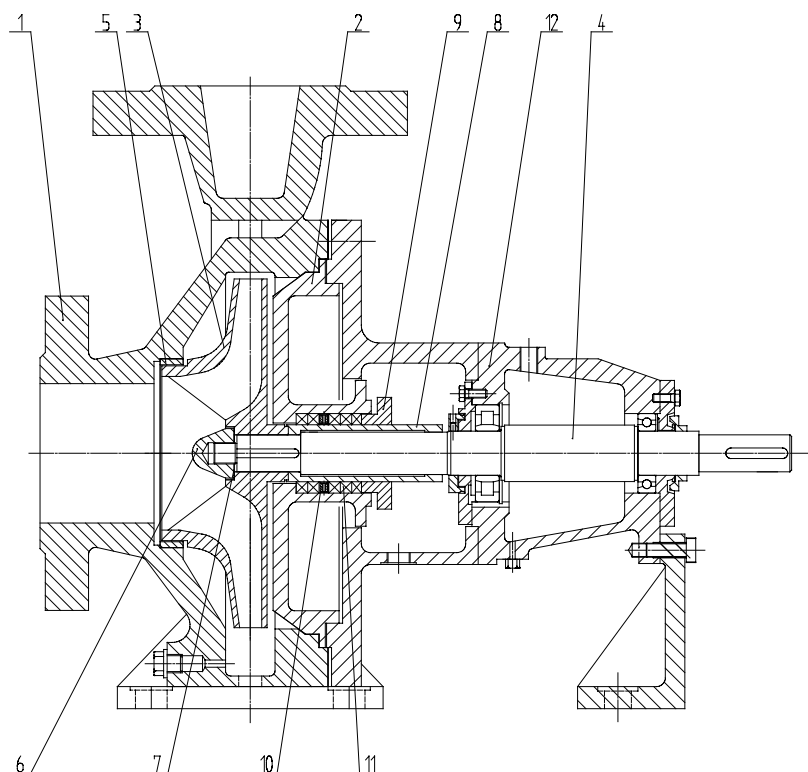


图 1

- | | | | |
|--------|--------|--------|-----------|
| 1、泵体 | 2、泵盖 | 3、叶轮 | 4、轴 |
| 5、密封环 | 6、叶轮螺母 | 7、制动垫圈 | 8、轴套 |
| 9、填料压盖 | 10、填料环 | 11、填料 | 12、悬架轴承部件 |

IR IS pump has the advantages for ease of inspection and maintenance. When inspection, only dismantle the intermediate connector between pump coupling and motor coupling. The rotating element can be completely removed without disturbing the casing, suction and discharge pipeline and motor.

The pump volute form is composed of casing and casing cover. The rotating element consists of impeller, shaft and rolling bearing. The rotating element is carried by the rolling bearings mounted in a hanging bearing bracket and radial and axial thrust is supported by the bearings.

In order to balance axial thrust, there are both wear rings in front and at the back of the majority of the impeller and the balance hole is on the back shroud of the impeller. The axial thrust of some pumps is not big enough, so there is no wear ring and balance hole at the back of the impeller.

Description of a Sectional Arrangements of Type IR IS Pump

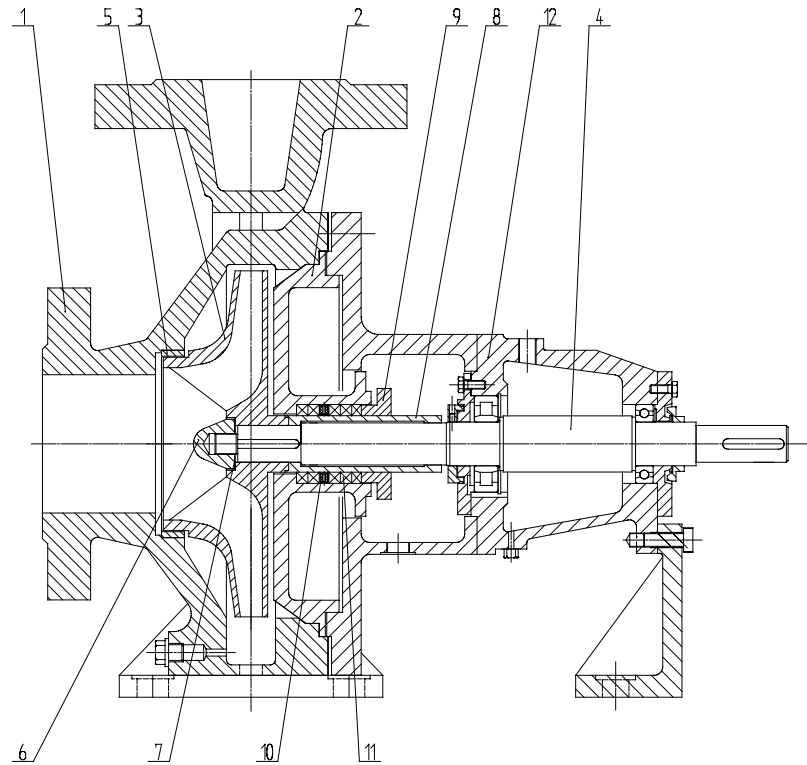


Figure 1

1. Casing 2.casing cover 3.impeller 4.shaft 5.wear ring 6.impeller nut
 7. Brake gasket 8.shaft sleeve 9.gland 10.water seal ring 11.packing 12.bearing bracket

泵的轴向密封是由填料压盖（9）、填料环（10）和填料（11）等组成，以防止进气或大量漏水。泵的叶轮如有平衡孔，则装软填料的空腔与叶轮吸入口相通，若叶轮入口处液体处于真空状态，则很容易沿着轴套表面进气，故在填料腔内装有填料环，通过泵盖上的小孔，将泵室内压力水引至填料环进行密封。泵的叶轮如没有平衡孔，由于叶轮背向液体压力大于大气压，因而不存在漏气问题，故可不装填料环。

为避免轴磨损，在轴通过填料腔的部位装有轴套保护，轴与轴套之间装有O型密封圈，以防沿着配合表面进气或漏水。

泵的传动方式是通过弹性联轴器与电动机联接的。泵的旋转方向，从电动机端看，为顺时针方向旋转。

泵的尺寸见图3和表2。泵的吸入口和排出口的法兰连接尺寸见图5和表4。

3、装配和拆卸

泵在装配前应首先检查零件有无影响装配的缺陷，并擦洗干净，方可进行装配。

- 3.1、预先可将各处的连接螺栓、丝堵等分别拧紧在相应的零件上；
- 3.2、预先可将“O”形圈、纸垫、毛毡等分别放置在相应的零件上；
- 3.3、预先可将密封环和填料、填料环、填料压盖等依次装到泵盖内；
- 3.4、将滚动轴承装到轴上，然后装到悬架内，再合上压盖，压紧滚动轴承，并在轴上套上挡水圈。
- 3.5、将轴套装到轴上，再将泵盖装到悬架上，然后再将叶轮、止动垫圈、叶轮螺母等装上并拧紧，最后再将上述组件装到泵体内，并拧紧泵体、泵盖上的连接螺栓。

The shaft seal consists of packing gland (9) water seal ring (10) and packing (11) to prevent air from in taking or the amount of leakage. If there is a balance hole of the impeller, cavity for soft packing connects to the impeller entrance. If liquid of the impeller entrance is at vacuum state, it is easy for air entraining along the surface of the shaft sleeve. So water seal ring is in the stuffing box.

Pressure water in the pump volute is led to water seal ring to be sealed. If there is no balance hole of the impeller, liquid pressure at the back face of the impeller is higher than atmosphere. There is no air leakage, so the water seal ring can not be packed.

The shaft sleeve is on the shaft to avoid excessive shaft wear. There is “O” ring between the shaft and the shaft sleeve to prevent air entrance or water leakage along the matched surface. Drive is transmitted from the motor to the pump by a flexible coupling with the intermediate connector. Rotation is clockwise when viewed from the driven end.

See Fig 3 and chart 2 for the pump dimensions. See Fig 5 and chart 4 for dimensions of suction and delivery flange.

3. Assembling and Dismantling

First inspect whether there are some defects and clean well before installing.

3.1 Tight connecting bolts and screwed plug to the corresponding parts in advance.

3.2 Put “O” seal ring, paper gasket and felt less pad on the corresponding parts in advance.

3.3 Fit wear ring, packing, water seal ring and gland in the casing cover in proper order.

3.4 Put rolling bearing on the shaft and then carry it into the bracket to be covered with a gland. Press the rolling bearing and put the water thrower on the shaft.

3.5 Put the shaft sleeve on the shaft and the casing cover on the bracket. Then place impeller, brake gasket and impeller nut and tighten them up. At last carry the above components into the casing and tight connecting bolts on the casing and the casing cover.

在上述装配过程中，一些小件如平键、挡油盘、挡水圈、轴套内 O 形密封圈等容易遗漏或装错顺序，应特别注意。

泵拆卸顺序基本上可按装配顺序反向进行。

4、安装

泵安装的好坏对泵的运行和寿命有重要影响，所以安装和校正必须仔细进行。泵的外形安装尺寸分为 B 型和 F 型两种，B 型为标准型安装尺寸，F 型为满足用户特殊需要的非标准型安装尺寸，详见图 4 和表 3。

1、安装和校正

- (1) 清除底座上的油腻和污垢，把底座放在地基上；
- (2) 用水平仪检查底座的水平度，允许用楔铁找平；
- (3) 用水泥浇灌底座和地脚螺栓孔眼；
- (4) 水泥干固后应检查底座和地脚螺栓孔眼是否松动，合适后拧紧地脚螺栓，重新检查水平度；
- (5) 清理底座的支持平面，水泵脚及电机脚的平面，并把泵和电机安装到底座上；
- (6) 联轴器之间应保持一定的间隙，检查水泵和电机轴中心线是否一致，可用薄垫、片调整使其同心。

测量联轴器的外圆上下、左右的差别不得超过 0.1 mm.。

两联轴器端面间隙一周上最大和最小的间隙差别不得超过 0.3 mm.。

2、安装说明

- (1) 泵的安装高度、管路的长度、直径、流速应符合计算，力求减少不必要的损失，可参考表五进行核算；
- (2) 长距输送时应取较大管路，管路应有自己的支架，不允许管路的重量加在泵上，避免把泵损坏；
- (3) 排出管路如装逆止阀，装在闸阀和泵排出管路之间。

Specially take care of these parts for ease of omission or disorder of sequence such as flat key, oil baffle, water thrower, “O” seal ring in the shaft sleeve during the process of assembling.

Dismantle sequence is the opposite direction to the assembling sequence.

4. Erection

Pump installing has an important influence on pump operating and service life, so installing and alignment must be done carefully. See Fig 4 and chart 3 for the overall dimensions of pump.

4.1 Assembling and Alignment

(1) Clean off oil stain and dirt on the soleplate and put the soleplate on the foundation.

(2) Level the soleplate by using a level-meter and adjust the level by iron shimming piece.

(3) Grout in the foundation and the bolts holes.

(4) When the grouting had been set, check looseness of the found action and the bolt holes and tighten the foundation bolts. Readjust the level.

(5) Clean the surfaces of support, pump foot and motor foot. The pump and motor are mounted on the soleplate.

(6) Keep the certain clearance between the couplings. Check the alignment of the centerline of the motor shaft to the pump shaft and adjust the alignment by a thin packing piece. The radial displacement at the coupling periphery is within 0.1 mm. The difference between maximum and minimum clearance at the periphery of the two coupling end faces is not more than 0.3 mm.

4.2 Erecting Instructions

(1) The installing height of the pump, length and diameter of the pipe and velocity should be required to meet calculation. Decrease unnecessary losses to a minimum and calculate for reference to chart 5.

(2) Select the large pipe diameter for long distance pumping. To avoid the damage to the pump, the pipes should have their supports and not allow the weight of the pipes to impose on the pump casing.

(3) The check valve should be fitted inside gate valve in the delivery pipe.

5、启动、停止与运转

5.1、启动

- (1) 应在机泵联接前确定电动机的旋转方向是否正确，泵的转向是否灵活；
- (2) 关闭吐出管路上的闸阀；
- (3) 向泵内灌满水，或用真空轴引水
- (4) 接通电源，当泵达到正常转速后，在逐渐打开吐出管路上的闸阀，并调节到所需要的工况。在吐出管路上闸阀关闭的情况下，泵连续工作的时间不能超过 3 分钟。

5.2、停止

- (1) 逐渐关吐出管路上的闸阀，切断电源；
- (2) 如环境温度低于 0℃，应将泵内水放出，以免冻裂；
- (3) 如长期停止使用，应将泵拆卸清洗上油，包装保管。

5.3、运转

- (1) 在开车及运转过程中，必须注意观察仪表读数，轴承发热，填料漏水和发热及泵的振动和杂音等是否正常，如果发现异常情况，应即时处理；
- (2) 轴承温度最高不大于 80℃，同时轴承温度不得高于周围温度 40℃；
- (3) 填料正常，漏水应该是少量均匀的；
- (4) 轴承油位应保持在正常位置上，不能过高或过低，过低时应及时补充润滑油；
- (5) 如密封环与叶轮配合部位的间隙磨损过大，应更换新的密封环。

5. Starting, Shutdown and Running

5.1 Starting

(1) Check that the motor rotates in the correct direction and that the pump rotates well before the motor is connected to the pump.

(2) Close the valve in the delivery pipe.

(3) The pump is fully primed or is primed by the vacuum pump.

(4) After power connection has been done and the pump has attained the normal speed, open the gate valve slowly in the delivery pipe and bring the pump gradually up to load required. The pump must not be allowed to run continuously for more than three minutes against a fully closed gate valve in the delivery pipe.

5.2 Shutdown Procedure

(1) Close the gate valve gradually in the delivery pipe and power cut.

(2) If the ambient temperature is below 0°C, water should be drained out of the pump to prevent frost crack.

(3) If the pump is to be stored for a long period, it should be dismantled, cleaned, oiled, packed and well preserved.

5.3 Running checks

(1) Carefully check that all instruments and gauges, bearing overheating, the leakage from the gaskets, the packing overheating, excessive vibration and excessive noise level have been existing during the operational period. If the faults are found and they are to be eliminated immediately.

(2) The high temperature of the bearing does not exceed 80°C and the temperature of the bearing must not be allowed to exceed 40°C of the ambient temperature.

(3) There is a little and even leakage when packing is in good condition.

(4) Ensure that oil is maintained at its correct level, not too high or too low. Replenish with correct grade of lubricating oil at too low.

(5) If the clearance between the wear ring and the mating face of impeller neck is excessive, renew a wear ring.

6、故障原因及解决办法

故障	原因	解决办法
1、水泵不吸水，压力表及真空表的指针在剧烈摆动	注入水泵的水不够，吸入管路水管或仪表漏气	再往水泵内注水或拧紧堵塞漏气处
2、水泵不吸水，真空表表示高度真空	底阀没有打开，或已淤塞，吸入管路阻力太大，泵安装高度太高	校正或更改底阀，清洗或更改吸入管路，减低吸水高度
3、看压力表水泵出水处是有压力，然而水管仍不出水	出水管阻力太大，旋转方向不对，叶轮淤塞	检查或缩短水管及检查电机，取下水管接头，清洗叶轮
4、流量低于预计	水泵淤塞，口环磨损过多	清洗水泵及管子，更换口环
5、水泵耗费的功率过大	填料函压得太紧，填料函发热，因磨损叶轮坏了，水泵供水量增加	拧紧填料函，或将填料取出来打方一些，更换叶轮，增加出水管路的阻力，来降低流量
6、水泵内部声音反常，水泵不上水	流量太大，吸水管内阻力太大，吸水高度过大，在吸水处有空气渗入，所输送的液体温度过高	增加出水管得阻力以减低流量，检查泵吸入管内阻力，检查底阀减少吸水高度。拧紧堵塞漏气处。降低液体温度
7、轴承过热	没有油，水泵轴与电机轴不在一条中心线上	注油，把轴中心校准
8、水泵振动	泵轴与电机轴不在一条中心线上或泵轴倾斜了	把水泵和电机的轴中心线对准

6. Probable Fault and Their Remedy

SYMPTOM	PROBABLE FAULT	REMEDY
(1) Pump loses liquid. Indicating needle of pressure gauge and vacuum meter jumps severely.	Pump not fully primed. Air leaks in pipe line or gauge.	Stop pump. Re-prime and repair leak.
(2) Pump loses liquid. Vacuum meter is at hard vacuum state.	Foot valve not open or blocked. Resistance force too high. Suction line too high.	Adjust or renew foot valve. Clear or renew suction pipe. Reduce height.
(3) Pressure exists at pressure gauge but no discharge from pipe.	Resistance force too high, impeller rotating in wrong direction. Impeller blocked.	Check pipe and motor. Shorten pipe and clean impeller.
(4) Quantity underestimated.	Blockage in pump. Rings worn excessively.	Clean pump and pipe, Renew ring.
(5) Excessive power consumption.	Stuffing boxes too tight. Stuffing boxes overheating. Pump delivering more than its rated quantity because of impeller damaged for wear.	Tight stuffing boxes or reassemble stuffing boxes as necessary. Renew impeller. Increase resistance force in discharge pipe to reduce capacity.
(6) Noise not good within pump. Loss of suction.	Flow quantity too large. Resistance force too high in suction line. Height too high and air leak at inlet of suction pipe. Temperature too high.	Increase resistance force in delivery pipe to reduce flow quantity. Check resistance force in suction pipe. Check foot valve. Reduce suction lift. Make good if any leaks. Reduce temperature of liquid.
(7) Bearing overheating	No oil. Pump and driving unit out of alignment.	Fill with oil. Realign pump and driving unit.
(8) Pump excessive vibration.	Pump and driving unit out of alignment. Pump shaft bent.	Realign pump and driving unit. Straighten shaft.

IR IS 型泵性能参数

Size and performance parameters of IR IS pump

表 1 Chart 1

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH) _r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口	出口	
										Inlet Dia.	Outlet Dia.	
IS50-32-125	7.5	2.08	22		0.96		47	2.0				40
	12.5	3.47	20	2980	1.13	2.2	60	2.0	127	50	32	
	15	4.17	18.5		1.26		60	2.5				
IS50-32J-125	3.75	1.04	5.4		0.13		43	2.0				40
	6.3	1.75	5	1480	0.16	0.55	54	2.0	127	50	32	
	7.5	2.08	4.6		0.17		55	2.5				
IS50-32-125A	11.2	3.11	16	2980	0.98	1.5	50	2.0	115	50	32	40
IS50-32J-125A	5.6	1.56	4	1480	0.12	0.55	52	2.0	115	50	32	40
IS50-32-160	7.5	2.08	34.3		1.59		44	2.0				40
	12.5	3.47	32	2980	2.02	3	54	2.0	154	50	32	
	15	4.17	29.6		2.16		56	2.5				
IS50-32J-160	3.75	1.04	8.5		0.25		35	2.0				40
	6.3	1.75	8	1480	0.29	0.55	48	2.0	154	50	32	
	7.5	2.08	7.5		0.31		49	2.5				
IS50-32-160A	11.7	3.25	28	2980	1.72	3	52	2.0	146	50	32	40
IS50-32J-160A	5.9	1.64	7	1480	0.24	0.55	46	2.0	146	50	32	40
IS50-32-160B	10.8	3	24	2980	1.41	2.2	50	2.0	136	50	32	40
IS50-32J-160B	5.4	1.5	6	1480	0.2	0.55	44	2.0	136	50	32	40
IS50-32-200	7.5	2.08	52.5		2.82		38	2.0				43
	12.5	3.47	50	2980	3.55	5.5	48	2.0	198	50	32	
	15	4.17	48		3.84		51	2.5				

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH)r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口 Inlet Dia. mm	出口 Outlet Dia. mm	
IS50-32J-200	3.75	1.04	13.1	1480	0.41	0.75	33	2.0	198	50	32	43
	6.3	1.75	12.5		0.51		42	2.0				
	7.5	2.08	12		0.56		44	2.5				
IS50-32-200A	11.7	3.25	44	2980	3.05	4	46	2.0	183	50	32	43
IS50-32J-200A	5.9	1.64	11	1480	0.44	0.75	40	2.0	183	50	32	43
IS50-32-200B	10.8	3	38	2980	2.54	4	44	2.0	170	50	32	43
IS50-32J-200B	5.4	1.5	9.5	1480	0.37	0.55	38	2.0	170	50	32	43
IS50-32-250	7.5	2.08	82	2980	5.88	11	28.5	2.0	243	50	32	76
	12.5	3.47	80		7.17		38	2.0				
	15	4.17	78.5		7.82		41	2.5				
IS50-32J-250	3.75	1.04	20.5	1480	0.91	1.5	23	2.0	243	50	32	76
	6.3	1.75	20		1.07		32	2.0				
	7.5	2.08	19.5		1.14		35	2.5				
IS50-32-250A	11.7	3.25	70	2980	6.2	7.5	36	2.0	231	50	32	76
IS50-32J-250A	5.9	1.64	17.5	1480	0.94	1.5	30	2.0	231	50	32	76
IS50-32-250B	10.8	3	60	2980	5.19	7.5	34	2.0	216	50	32	76
IS50-32J-250B	5.4	1.5	15	1480	0.79	1.1	28	2.0	216	50	32	76
IS65-50-125	15	4.17	21.8	2980	1.54	3	58	2.0	126	65	50	38.6
	25	6.94	20		1.97		69	2.0				
	30	8.33	18.5		2.22		68	2.5				

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH) _r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口	出口	
										Inlet Dia.	Outlet Dia.	
IS65-50J-125	7.5	2.08	5.35	1480	0.21	0.55	53	2.0	126	65	50	38.6
	12.5	3.47	5		0.27		64	2.0				
	15	4.17	4.7		0.3		65	2.5				
IS65-50-125A	22.4	6.22	16	2980	1.46	2.2	67	2.0	116	65	50	38.6
IS65-50J-125A	11.2	3.11	4	1480	0.2	0.55	62	2.0	116	65	50	38.6
IS65-50-160	15	4.17	35	2980	2.65	5.5	54	2.0	161	65	50	39
	25	6.94	32		3.35		65	2.0				
	30	8.33	30		3.71		66	2.5				
IS65-50J-160	7.5	2.08	8.8	1480	0.36	0.75	50	2.0	161	65	50	39
	12.5	3.47	8		0.45		60	2.0				
	15	4.17	7.2		0.49		60	2.5				
IS65-50-160A	23.4	6.5	28	2980	2.83	4	63	2.0	152	65	50	39
IS65-50J-160A	11.7	3.25	7	1480	0.38	0.75	58	2.0	152	65	50	39
IS65-50-160B	21.7	6.03	24	2980	2.33	4	61	2.0	142	65	50	39
IS65-50J-160B	10.8	3	6	1480	0.32	0.55	56	2.0	142	65	50	39
IS65-40-200	15	4.17	53	2980	4.42	7.5	49	2.0	195	65	40	46
	25	6.94	50		5.67		60	2.0				
	30	8.33	47		6.29		61	2.5				
IS65-40J-200	7.5	2.08	13.2	1480	0.63	1.1	43	2.0	195	65	40	46
	12.5	3.47	12.5		0.77		55	2.0				
	15	4.17	11.8		0.85		57	2.5				
IS65-40-200A	23.4	6.5	44	2980	4.83	7.5	58	2.0	185	65	40	46

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH)r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口	出口	
										Inlet Dia.	Outlet Dia.	
IS65-40J-200A	11.7	3.25	11	1480	0.66	1.1	53	2.0	185	65	40	46
IS65-40-200B	21.7	6.03	38	2980	4.01	5.5	56	2.0	173	65	40	46
IS65-40J-200B	10.8	3	9.5	1480	0.55	1.1	51	2.0	173	65	40	46
IS65-40-250	15	4.17	82	2980	9.05	15	37	2.0	247	65	40	80
	25	6.94	80		10.89		50	2.0				
	30	8.33	78		12.02		53	2.5				
IS65-40J-250	7.5	2.08	21	1480	1.23	2.2	35	2.0	247	65	40	80
	12.5	3.47	20		1.48		46	2.0				
	15	4.17	19.4		1.65		48	2.5				
IS65-40-250A	23.4	6.5	70	2980	9.29	15	48	2.0	236	65	40	80
IS65-40J-250A	11.7	3.25	17.5	1480	1.27	2.2	44	2.0	236	65	40	80
IS65-40-250B	21.7	6.03	60	2980	7.71	11	46	2.0	220	65	40	80
IS65-40J-250B	10.8	3	15	1480	1.05	1.5	42	2.0	220	65	40	80
IS65-40-315	15	4.17	127	2980	18.5	30	28	2.0	307	65	40	106
	25	6.94	125		21.3		40	2.0				
	30	8.33	123		22.8		44	2.5				
IS65-40J-315	7.5	2.08	32.3	1480	2.64	4	25	2.0	307	65	40	106
	12.5	3.47	32		2.94		37	2.0				
	15	4.17	31.7		3.16		41	2.5				
IS65-40-315A	23.9	6.64	114	2980	19.53	30	38	2.5	297	65	40	106

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH)r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口	出口	
										Inlet Dia.	Outlet Dia.	
IS65-40J-315A	11.9	3.31	28.5	1480	2.64	4	35	2.5	297	65	40	106
IS65-40-315B	22.7	6.31	103	2980	17.69	22	36	2.5	281	65	40	106
IS65-40J-315B	11.3	3.14	25.8	1480	2.41	4	33	2.5	281	65	40	106
IS65-40-315C	21.4	5.94	92	2980	15.77	18.5	34	2.5	269	65	40	106
IS65-40J-315C	10.7	2.97	23	1480	2.16	3	31	2.5	269	65	40	106
IS80-65-125	30	8.33	22.5	2980	2.87	5.5	64	3.0	133	80	65	53.5
	50	13.89	20		3.63		75	3.0				
	60	16.67	18		3.97		74	3.5				
IS80-65J-125	15	4.17	5.6	1480	0.42	0.75		2.5	133	80	65	53.5
	25	6.94	5		0.48		55	2.5				
	30	8.33	4.5		0.51			3.0				
IS80-65-125A	44.7	12.42	16	2980	2.67	4	69	2.5	122	80	65	53.5
IS80-65J-125A	22.4	6.22	4	1480	0.35	0.55	69	2.5	122	80	65	53.5
IS80-65-160	30	8.33	36	2980	4.82	7.5	61	2.5	163	80	65	44
	50	13.89	32		5.97		73	2.5				
	60	16.67	29		6.58		72	3.0				
IS80-65J-160	15	4.17	9	1480	0.67	1.5	55	2.5	163	80	65	44
	25	6.94	8		0.79		69	2.5				
	30	8.33	7.2		0.87		68	3.0				
IS80-65-160A	46.8	13	28	2980	5.03	7.5	71	2.5	155	80	65	44

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH) _r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口	出口	
										Inlet Dia.	Outlet Dia.	
IS80-65J-160A	23.4	6.5	7	1480	0.67	1.1	67	2.5	155	80	65	44
IS80-65-160B	43.3	12.03	24	2980	4.1	5.5	69	2.5	145	80	65	44
IS80-65J-160B	21.7	6.03	6	1480	0.55	1.1	65	2.5	145	80	65	44
IS80-50-200	30	8.33	53	2980	7.87	15	55	2.5	197	80	50	48
	50	13.89	50		9.87		69	2.5				
	60	16.67	47		10.8		71	3.0				
IS80-50J-200	15	4.17	13.2	1480	1.06	2.2	51	2.5	197	80	50	48
	25	6.94	12.5		1.31		65	2.5				
	30	8.33	11.8		1.44		67	3.0				
IS80-50-200A	46.8	13	44	2980	8.37	11	67	2.5	187	80	50	48
IS80-50J-200A	23.4	6.5	11	1480	1.11	1.5	63	2.5	187	80	50	48
IS80-50-200B	43.3	12.0	38	2980	6.89	11	65	2.5	175	80	50	48
IS80-50J-200B	21.7	6.03	9.5	1480	0.92	1.5	61	2.5	175	80	50	48
IS80-50-250	30	8.33	84	2980	13.2	22	52	2.5	243	80	50	86
	50	13.89	80		17.29		63	2.5				
	60	16.67	75		19.14		64	3.0				
IS80-50J-250	15	4.17	21	1480	1.75	3	49	2.5	243	80	50	86
	25	6.94	20		2.27		60	2.5				
	30	8.33	18.8		2.52		60	3.0				
IS80-50-250A	46.8	13	70	2980	14.63	18.5	61	2.5	230	80	50	86

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH)r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weigh t kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口	出口	
										Inlet Dia.	Outlet Dia.	
IS80-50J-250A	23.4	6.5	17.5	1480	1.92	3	58	2.5	230	80	50	86
IS80-50-250B	43.3	12.03	60	2980	11.99	15	59	2.5	214	80	50	109
IS80-50J-250B	21.7	6.03	15	1480	1.58	2.2	56	2.5	214	80	50	109
IS80-50-315	30	8.33	128	2980	25.5	37	41	2.5	307	80	50	109
	50	13.89	125		31.5		54	2.5				
	60	16.67	123		35.3		57	3.0				
IS80-50J-315	15	4.17	32.5	1480	3.4	5.5	39	2.5	307	80	50	109
	25	6.94	32		4.19		52	2.5				
	30	8.33	31.5		4.6		56	3.0				
IS80-50-315A	47.7	13.25	114	2980	28.48	37	52	2.5	294	80	50	109
IS80-50J-315A	23.8	6.61	28.5	1480	3.69	5.5	50	2.5	294	80	50	109
IS80-50-315B	45.4	12.61	103	2980	25.47	30	50	2.5	278	80	50	109
IS80-50J-315B	22.7	6.31	25.8	1480	3.32	5.5	48	2.5	278	80	50	109
IS80-50-315C	42.9	11.92	92	2980	22.39	30	48	2.5	266	80	50	109
IS80-50J-315C	21.4	5.94	23	1480	2.91	4	46	2.5	266	80	50	109

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH)r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口	出口	
										Inlet Dia.	Outlet Dia.	
IS100-80-125	60	16.67 27.7	24	2980	5.85	11	67	4.0	135	100	80	58
	100		20		6.98		78	4.5				
	120		16.5		7.29		74	5.0				
IS100-80J-125	30	8.33	6	1480	0.77	1.5	64	2.5	135	100	80	58
	50	13.89	5		0.91		75	2.5				
	60	16.67	4		0.92		71	3.0				
IS100-80-125A	89.4	24.83	16	2980	5.13	7.5	76	4.5	125	100	80	58
IS100-80J-125A	44.7	12.42	4	1480	0.67	1.1	73	2.5	125	100	80	58
IS100-80-160	60	16.67	36	2980	8.4	15	70	3.5	165	100	80	79
	100	27.78	32		11.2		78	4.0				
	120	33.33	28		12.2		75	4.5				
IS100-80J-160	30	8.33	9.2	1480	1.12	2.2	67	2.0	165	100	80	79
	50	13.89	8		1.45		75	2.5				
	60	16.67	6.8		1.56		71	3.5				
IS100-80-160A	93.5	25.97	28	2980	9.38	15	76	4.0	158	100	80	79
IS100-80J-160A	46.8	13	7	1480	1.22	2.2	73	2.5	158	100	80	79
IS100-80-160B	86.6	24.06	24	2980	7.65	11	74	4.0	147	100	80	79
IS100-80J-160B	43.3	12.03	6	1480	1	1.5	71	2.5	147	100	80	79
IS100-65-200	60	16.67	54	2980	13.6	22	65	3.0	198	100	65	56
	100	27.78	50		17.9		76	3.6				
	120	33.33	47		19.9		77	4.8				
IS100-65J-200	30	8.33	13.5	1480	1.84	4	60	2.0	198	100	65	56
	50	13.89	12.5		2.33		73	2.0				
	60	16.67	11.8		2.61		74	2.5				

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH)r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口	出口	
										Inlet Dia.	Outlet Dia.	
IS100-65-200A	93.5	25.97	44	2980	15.14	18.5	74	3.6	188	100	65	56
IS100-65J-200A	46.8	13	11	1480	1.97	3	71	2.0	188	100	65	56
IS100-65-200B	86.6	24.06	38	2980	12.45	15	72	3.6	177	100	65	56
IS100-65J-200B	43.3	12.03	9.5	1480	1.62	2.2	69	2.0	177	100	65	56
IS100-65-250	60	16.67	87	2980	23.4	37	61	3.5	248	100	65	95
	100	27.78	80		30.3		72	3.8				
	120	33.33	74.5		33.4		73	4.8				
IS100-65J-250	30	8.33	21.3	1480	3.16	5.5	55	2.0	248	100	65	95
	50	13.89	20		4		68	2.0				
	60	16.67	19		4.44		70	2.5				
IS100-65-250A	93.5	25.97	70	2980	25.46	30	70	3.8	235	100	65	95
IS100-65J-250A	46.8	13	17.5	1480	3.38	5.5	66	2.0	235	100	65	95
IS100-65-250B	86.6	24.06	60	2980	20.81	30	68	3.8	219	100	65	95
IS100-65J-250B	43.3	12.03	15	1480	2.76	4	64	2.0	219	100	65	95
IS100-65-315	60	16.67	133	2980	39.5	75	55	3.0	307	100	65	130
	100	27.78	125		51.6		66	3.6				
	120	33.33	118		57.6		67	4.2				
IS100-65J-315	30	8.33	34	1480	5.45	11	51	2.0	307	100	65	130
	50	13.89	32		6.92		63	2.0				
	60	16.67	30		7.66		64	2.5				

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH)r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口 Inlet Dia. mm	出口 Outlet Dia. mm	
IS100-65-315A	95.5	26.53	114	2980	46.33	35	64	3.6	296	100	65	130
IS100-65J-315A	47.7	13.25	28.5	1480	6.07	7.5	61	2.0	296	100	65	130
IS100-65-315B	90.8	25.22	103	2980	41.08	55	62	3.6	281	100	65	130
IS100-65J-315B	45.4	12.61	25.8	1480	5.41	7.5	59	2.0	281	100	65	130
IS100-65-315C	85.8	23.83	92	2980	35.83	45	60	3.6	270	100	65	130
IS100-65J-315C	42.9	11.92	23	1480	4.71	7.5	57	2.0	270	100	65	130
IS125-100-200	120	33.33	57.5	2980	28	45	67	4.5	210	125	100	87
	200	55.56	50		33.6		81	4.5				
	240	66.67	44.5		36.4		80	5.0				
IS125-100J-200	60	16.67	14.5	1480	3.82	7.5	62	2.5	210	125	100	87
	100	27.78	12.5		4.48		76	2.5				
	120	33.33	11		4.79		75	3.0				
IS125-10-200A	187	51.94	44	2980	28.36	37	79	4.5	199	125	100	87
IS125-100J-200A	93.5	25.97	11	1480	3.79	5.5	74	2.5	199	125	100	87
IS125-100-200B	173	48.06	38	2980	23.25	30	77	4.5	188	125	100	87
IS125-100J-200B	86.5	24.03	9.5	1480	3.11	4	72	2.5	188	125	100	87

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH)r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口	出口	
										Inlet Dia.	Outlet Dia.	
IS125-100-250	120	33.33	87	2980	43.1	75	66	3.8	248	125	100	125
	200	55.56	80		55.9		78	4.2				
	240	66.67	72		62.7		75	5.0				
IS125-100J-250	60	16.67	21.5	1480	5.58	11	63	2.5	248	125	100	125
	100	27.78	20		7.71		76	2.5				
	120	33.33	18.5		7.85		77	3.0				
IS125-100-250A	187	51.94	70	2980	46.91	55	76	4.2	248	125	100	125
IS125-100J-250A	93.5	25.97	17.5	1480	6.02	7.5	74	2.5	248	125	100	125
IS125-100-250B	173	48.06	60	2980	38.2	45	74	4.2	248	125	100	125
IS125-100J-250B	86.5	24.03	15	1480	4.91	7.5	72	2.5	248	125	100	125
IS125-100-315	120	33.33	132.5	2980	72.2	110	60	4.0	248	125	100	125
	200	55.56	125		90.8		75	4.5				
	240	66.67	120		101.9		77	5.0				
IS125-100J-315	60	16.67	33.5	1480	9.4	15	58	2.5	248	125	100	125
	100	27.78	32		11.9		73	2.5				
	120	33.33	30.5		13.5		74	3.0				
IS125-100-315A	191	53.06	114	2980	81.23	90	73	4.5	248	125	100	125
IS125-100J-315A	95.5	26.53	28.5	1480	10.44	15	71	2.5	248	125	100	125
IS125-100-315B	181.6	50.44	103	2980	71.75	90	71	4.5	248	125	100	125
IS125-100J-315B	90.8	25.22	25.8	1480	9.25	15	69	2.5	248	125	100	125

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH)r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口	出口	
										Inlet Dia.	Outlet Dia.	
IS125-100-315C	171.6	47.67	92	2980	62.3	75	69	4.5	272	125	100	125
IS125-100J-315C	85.8	23.83	23	1480	8.02	11	67	2.5	272	125	100	125
IS125-100-400	60	16.67	52	1480	16	30	53	2.5	387	125	100	137
	100	27.78	50		20.9		65	2.5				
	120	33.33	48.5		23.7		67	3.0				
IS125-100-400A	93.5	25.97	44	1480	17.8	22	63	2.5	367	125	100	137
IS125-100-400B	86.5	24.03	38	1480	14.7	18.5	61	2.5	346	125	100	137
IS150-125-250	120	33.33	22.5	1480	10.4	18.5	71	3.0	257	150	125	136
	200	55.56	20		13.4		81	3.0				
	240	66.67	17.5		14.7		78	3.5				
IS150-125-250A	187	51.94	17.5	1480	11.28	15	79	3.0	293	150	125	136
IS150-125-250B	173	48.06	15	1480	9.18	15	77	3.0	229	150	125	136
IS150-125-315	120	33.33	34	1480	15.9	30	70	2.5	322	150	125	158
	200	55.56	32		22.1		79	2.5				
	240	66.67	29		23.7		80	3.0				
IS150-125-315A	187	51.94	28	1480	18.5	22	77	2.5	306	150	125	158
IS150-125-315B	173	48.06	24	1480	15.1	18.5	75	2.5	286	150	125	158

Continued

参数 Parameter 型号 Type	流量 Capacity Q		扬程 Head H	转速 Speed n	轴功率 Shaft power Pa	配套 功率 Motor power	效率 Eff.	必需汽 蚀余量 (NPSH)r	叶轮名 义直径 Impeller Dia.	泵口径		重量 Weight kg
	m ³ /h	L/s	m	r/min	kW	kW	%	m	mm	进口	出口	
										Inlet Dia.	Outlet Dia.	
IS150-125-400	120	33.33	53		27.9		62	2.0				
	200	55.56	50	1480	36.3	45	75	2.8	333	150	125	187
	240	66.67	46		40.6		74	3.5				
IS150-125-400A	187	51.94	44	1480	30.7	37	73	2.8	371	150	125	187
IS150-125-400B	173	48.06	38	1480	25.2	30	71	2.8	350	150	125	187
IS200-150-250	400	111.1	20	1480	26.6	37	82	4.6	269	200	150	186
IS200-150-250A	374	103.9	17.5	1480	22.3	30	80	4.6	258	200	150	186
IS200-150-250B	346	96.11	15	1480	18.1	22	78	4.6	256	200	150	186
IS200-150-315	240	66.67	37		34.5		70	3.0				
	400	111.1	32	1480	42.5	55	82	3.5	329	200	150	186
	460	127.8	28.5		44.6		80	4.0				
IS200-150-315A	374	103.9	28	1480	35.65	45	80	3.5	314	200	150	186
IS200-150-315B	346	96.11	24	1480	28.99	37	78	3.5	294	200	150	186
IS200-150-400	240	66.67	55		48.6		74	3.0				
	400	111.1	50	1480	67.2	90	81	3.8	387	200	150	186
	460	127.8	45		74.2		76	4.5				
IS200-150-400A	374	103.9	44	1480	56.73	75	79	3.8	367	200	150	186
IS200-150-400B	346	96.11	38	1480	46.5	55	77	3.8	346	200	150	186

IR IS 型泵外形尺寸图 Overall and Dimensions Figure

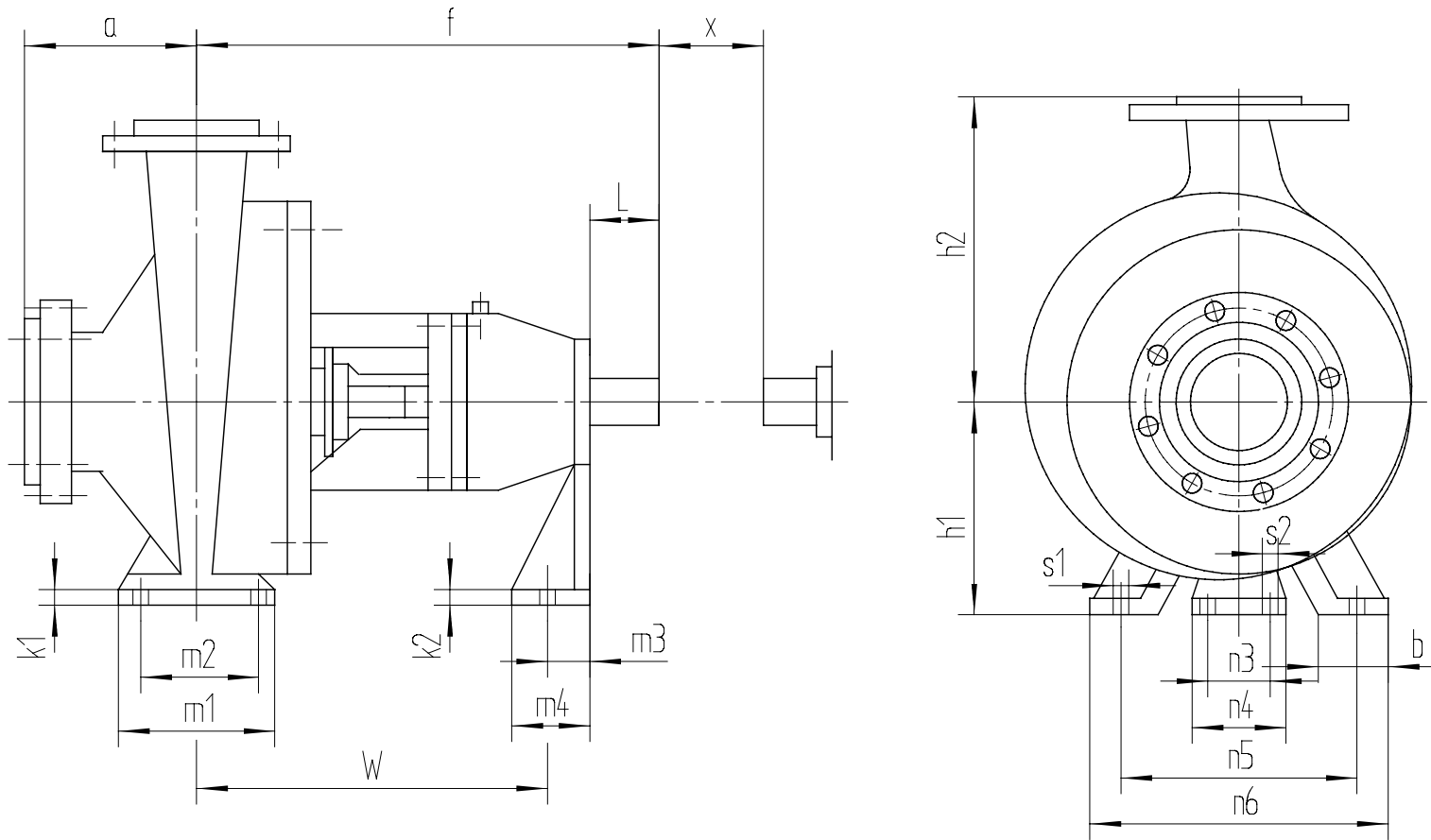


Figure 3

IR IS 型泵外形尺寸表 Overall Dimensions of IR IS Pump

表 2 Chart 2

产品型号 Type of Pump	泵 Pump				泵脚座 Pump Feet												w	螺栓孔 Bolt holes		轴端 Shaft End		间隙 Space
	a	f	h ₁	h ₂	b	m ₁	m ₂	m ₃	m ₄	n ₁	n ₂	n ₃	n ₄	k ₁	k ₂	s ₁		s ₂	d	L	x	
	IS50-32-125	80	385	112	140	50	100	70	19	60	190	140	110	145		10		285	M12	M12	24	50
IS50-32-160	132			160	240						190											
IS50-32-200	160			180																		
IS50-32-250	100	500	180	225	65	125	95	25	65	320	250	110	145		14	370	M12	M12	32	80	100	
IS65-50-125	80	385	112	140	50	100	70	19	60	210	160	110	145		10	285	M12	M12	24	50	100	
IS65-50-160			132	160						240	190											
IS65-40-200			100	160						180	265											212

Continued

产品型号 Type of Pump	泵 Pump				泵脚座 Pump Feet												w	螺栓孔 Bolt holes		轴端 Shaft End		间隙 Space
	a	f	h ₁	h ₂	b	m ₁	m ₂	m ₃	m ₄	n ₁	n ₂	n ₃	n ₄	k ₁	k ₂	s ₁		s ₂	d	L	x	
IS65-40-250	100	500	180	225	65	125	95	25	65	320	250	110	145		14	370	M12	M12	32	80	100	
IS65-40-315	125		200	250						345	280											
IS80-65-125	100	385	132	160	50	100	70	19	60	240	190	110	145		10	285	M12	M12	24	50	100	
IS80-65-160			180	265						212												
IS80-50-200			200																			
IS80-50-250	125	500	180	225	65	125	95	25	65	320	250	110	145		10	285	M12	M12	24	50	100	
IS80-50-315			225	280						345	280								14	370	32	80
IS100-80-125	100	385	180	65	125	95	19	60	280	212	110	145		10	285	M12	M12	24	50	100		
IS100-80-160		500	160				200								24			370	32		80	

Continued

产品型号 Type of Pump	泵 Pump				泵脚座 Pump Feet												w	螺栓孔 Bolt holes		轴端 Shaft End		间隙 Space
	a	f	h ₁	h ₂	b	m ₁	m ₂	m ₃	m ₄	n ₁	n ₂	n ₃	n ₄	k ₁	k ₂	s ₁		s ₂	d	L	x	
IS100-65-200	100	500	180	225	65	125	95	25	65	320	250	110	145		14	370	M12	M12	32	80	140	
IS100-65-250	125		200	250	80	160	120			28	360						280	110			145	
IS100-65-315		530	225	280				80	160		120	25	65	400	315	110	140			14		
IS125-100-200	125	500	200	280	80	160	120			28				65	360			280			110	145
IS125-100-250	140	530	225	280				80	160		120	25	65		400	315	110	145		14		
IS125-100-315			250	315	80	160	120			28				65	400	315					110	145
IS125-100-400			280	355				100	200		150	500	400		110	145		14	370	M20		
IS150-125-250	140	530	250	355	80	160	120	28	65	400	315	110	145							14	370	M16
IS150-125-315			280	355	100	200	150			500	400				M20	M12	42	110	140			
IS150-125-400			315	400	100	200	150			500	400				M20	M12	42	110	140			
IS200-150-250			280	375	100	200	150			500	400				M20	M12	42	110	180			
IS200-150-315			315	400						550	450					M16	48					
IS200-150-400				450																		

IR IS 型泵外形安装图 Overall and Installation Figure

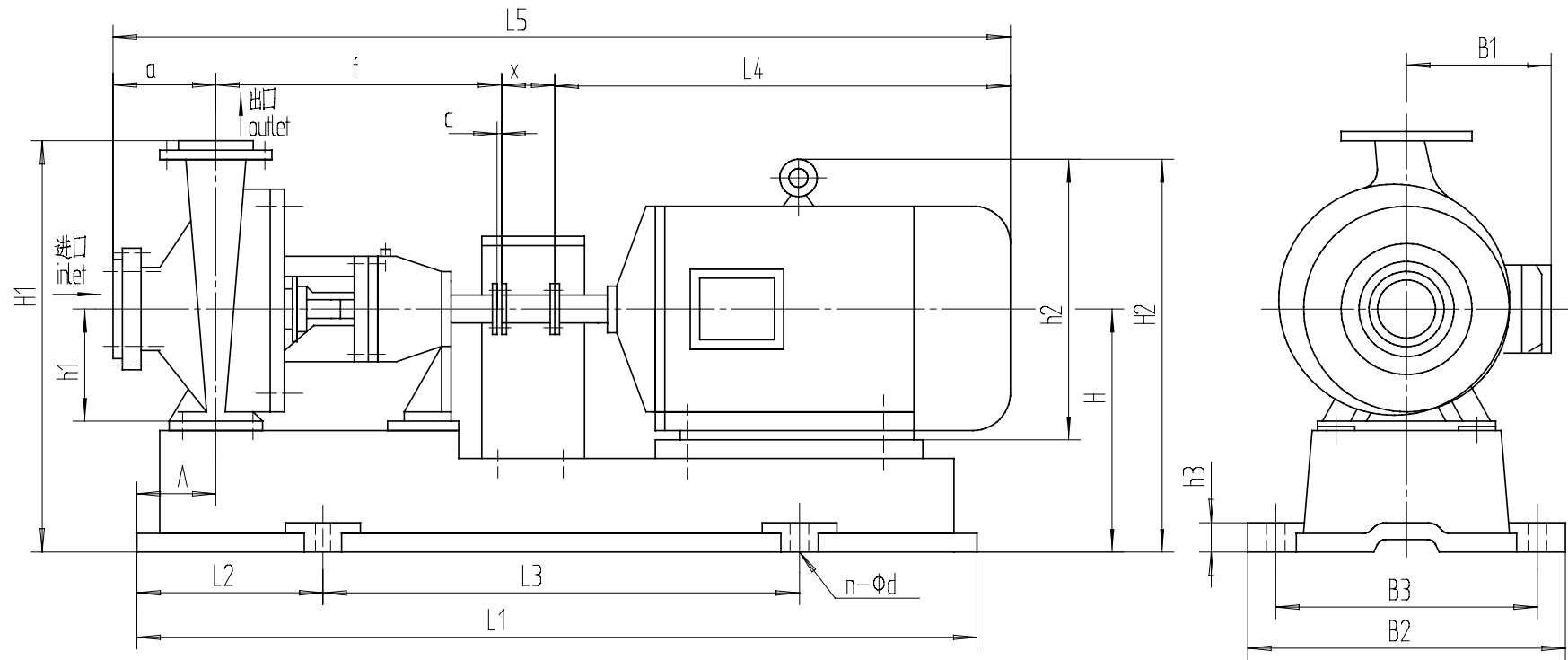


Figure 4

IR IS 型泵外形安装尺 Overall and installation Dimensions

表 3 Chart 3

泵型号 Pump	电机机座号/功率 (Kw) Frame size/Power	外形安装尺寸 Overall and installation Dimensions																												
		A	L ₁	L ₂	L ₃	L ₄	a	f	x	c	L ₅	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	n-φd									
IS50-32-125	Y80-4/0.55	80	820	150	540	285	80	385	100	3	850	150	360	320	112	170	25	237	377	327	4-φ18.5									
	Y80-2/1.1					310					875	155				190				337										
	Y90S-2/1.5		920	170	600	335					900	390	350	390		350				390		350	390	350	390	350	390	350	390	350
	Y90L-2/2.2										380																			
IS50-32-160	Y80-4/0.55	80	820	150	540	285	80	385	100	3	850	150	360	320	132	170	25	257	417	347	4-φ18.5									
	Y90S-2/1.5					310					875	155				190				357										
	Y90L-2/2.2		920	170	600	335					900	390	350	390		350				390		350	390	350	390	350	390	350	390	350
	Y100L-2/3										380																			
IS50-32-200	Y80-4/0.55	80	820	150	540	285	80	385	100	3	850	150	360	320	160	170	25	285	465	375	4-φ18.5									
	Y80-4/0.75					310					875	155				190				357										
	Y100L-2/3		920	170	600	380					900	390	350	390		350				390		350	390	350	390	350	390	350	390	350
	Y112M-2/4					400					965																			
	Y132S-2/5.5		1020	190	660	475					1040	210	450	400		315				30		498	4-φ24							

Continued

泵型号 Pump	电机机座号/功率 (Kw) Frame size/Power	外形安装尺寸 Overall and installation Dimensions																						
		A	L ₁	L ₂	L ₃	L ₄	a	f	x	c	L ₅	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	n-φd			
IS50-32-250	Y90S-4/1.1	95	1012	190	660	310	100	500	100	3	1010	155	450	400	180	190	30	305	530	405	4-φ24			
	335					1035																		
	1160		210	740	475	1175					210	490	440	315								320	545	503
	1290		225	840	600	1300					255	540	490	385								340	565	565
IS65-50-125	Y80-4/0.55	80	820	150	540	285	80	385	100	3	850	155	360	320	112	170	25	237	377	337	327	4-φ18.5		
	310					875																		
	920		170	600	335	900					180	390	350	245							382			
	380		945																					
IS65-50-160	Y80-4/0.55	80	820	150	540	285	80	385	100	3	850	180	360	320	132	170	25	257	417	347	4-φ18.5			
	380					945																		
	920		170	600	400	965					210	450	400	265						410				
	400		1040																					
	1020		190	660	475	1060					210	450	400	315						30		440	4-φ24	
Y132S-2/5.5	315	30	468	4-φ24																				
IS65-40-200	Y80-4/0.55	80	920	170	600	285	100	385	100	3	870	155	390	350	160	170	25	285	465	375	4-φ18.5			
	310					895																		
	400					985					190	265	438											
	1020		190	660	475	1060					210	450	400	315						30		468	4-φ24	
	Y132S-2/7.5		315	30	468	4-φ24																		

Continued

泵型号 Pump	电机机座号/功率 (Kw) Frame size/Power	外形安装尺寸 Overall and installation Dimensions																											
		A	L ₁	L ₂	L ₃	L ₄	a	f	x	c	L ₅	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	n-φd								
IS65-40-250	Y90S-4/1.1	95	1020	190	660	310	100	500	100	3	1010	155	450	400	180	190	30	305	530	405	4-φ24								
	335					1035					180									245		450							
	330					1080					210	490	440	315		320		545	503										
	Y100L-4/2.2		1160	210	740	475					1300	255	540	490		385		340	565	565									
	Y132S-2/7.5		1290	225	840	600																							
	Y160M-2/11																												
Y160M-2/15																													
IS65-40-315	Y100L-4/3	95	1140	210	740	380	125	500	100	3	1105	180	490	440	200	245	30	340	590	485	4-φ24								
	400					1125					190									265		493							
	Y112M-4/4		1290	225	840	645				4	1370	255	540	490		385		360	610	585									
	670					1395					285					430				610									
	Y160L-2/18.5					1420				250	940	775	1500	310		610		550	475	40		380	630	655	4-φ28				
Y180M-2/22																													
Y200L-2/30																													
IS80-65-125	Y80-4/0.55	80	820	150	540	285	100	385	100	3	870	150	360	320	132	170	25	257	417	347	4-φ18.5								
	Y80-4/0.75																												
	Y100L-2/3		920	170	600	380																							
	400																												
Y112M-2/4	1020	190	660	475																4-φ24									
Y132S-2/5.5																													

Continued

泵型号 Pump	电机机座号/功率 (Kw) Frame size/Power	外形安装尺寸 Overall and installation Dimensions																							
		A	L ₁	L ₂	L ₃	L ₄	a	f	x	c	L ₅	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	n-φd				
IS80-65-160	Y80-4/0.75	80	920	170	600	285	110	385	100	3	870	150	390	350	160	170	25	285	495	375	4-φ18.5				
	Y90S-4/1.1					310					895	155				190				385					
	Y90L-4/1.5					335					920	190				438									
	Y112M-2/4					400					985	190				468									
	Y132S-2/5.5		1020	190	660	475					1060	210	450	400		315				30		468	4-φ24		
	Y132S-2/7.5																								
IS80-50-200	Y90S-4/1.1	80	920	170	600	310	100	385	100	3	895	155	390	350	160	190	25	285	485	385	4-φ18.5				
	Y90L-4/1.5					335					920	155				245				25		285	430		
	Y100L-4/2.2					480					965	180				390				350		245	25	285	430
	Y132S-2/7.5					1020					190	660				475				1060		210	450	400	315
	Y160M-2/11		1140	210	740	600					1185	255	490	440		385				30		300	500	525	
	Y160M-2/15																								
IS80-50-250	Y90L-4/2.2	95	1020	190	660	335	125	500	100	3	1060	155	450	400	180	190	30	305	530	405	4-φ24				
	Y100L-4/3					380					1105	180				245				450					
	Y160M-2/15		600	1325	255	385					30	565													
	Y160L-2/18.5		1290	225	840	645					1370	540	490	340		565				565					
	Y180M-2/22		670	1395	285	430					590														

Continued

泵型号 Pump	电机机座号/功率 (Kw) Frame size/Power	外形安装尺寸 Overall and installation Dimensions																				
		A	L ₁	L ₂	L ₃	L ₄	a	f	x	c	L ₅	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	n-φd	
IS80-50-315	Y112M-4/4	95	1140	210	740	400	125	500	100	3	1125	190	490	440	225	265	30	365	645	518	4-φ24	
	Y132S-4/5.5		1160			475					1200	210				315				548		
	Y180M-2/22		1290	225	840	675				1395	285	540	490	430		385		665	635			
	Y200L-2/30		1420	250	940	775				1500	310	610	550	475		40		405	685	680		4-φ28
	Y200L-2/37																					
IS100-80-125	Y80-4/0.75	95	920	170	600	285	100	385	100	3	870	150	390	350	160	170	25	285	465	375	4-φ18.5	
	Y90S-4/1.1					310					895	155				190				385		
	Y90L-4/1.5					335					920	1060	210	450		400				315		468
	Y132S-2/7.5		1020	190	660	475				1185	255	490	440	385		30		300	480	525		4-φ24
	Y160M-2/11		1140	210	740	600				1035	155	450	400	190		385		30	285	485		385
IS100-80-160	Y90L-4/1.5	95	1020	190	660	335	100	500	100	3	1035	155	450	400	160	190	30	285	485	385	4-φ24	
	Y100L-4/22					380					1080	180				245				430		
	Y160M-2/11		1290	225	840	600				1300	255	540	490	385		320		520	545			
	Y160M-2/15																					

Continued

泵型号 Pump	电机机座号/功率 (Kw) Frame size/Power	外形安装尺寸 Overall and installation Dimensions																				
		A	L ₁	L ₂	L ₃	L ₄	a	f	x	c	L ₅	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	n-φd	
IS100-65-200	Y90L-2/2.2	95	1020	190	660	335	100	500	140	3	1075	155	450	400	180	190	30	305	530	405	4-φ24	
	Y100L-4/3		1140	210	740	380					1120	180	490	440		245		320	545	465		
	Y112M-4/4					400					1140	190				265		340	565	565		473
	Y160M-2/15		1290	225	840	600					4	1385	255	540		490		385	340	565		565
	Y160L-2/18.5					645																
	Y180M-2/22		1290	225	840	670					1410	285	540	490		430		565	590			
IS100-65-250	Y100L-4/3	110	1140	210	740	380	125	500	140	3	1145	180	490	440	200	245	30	340	590	485	4-φ24	
	Y112M-4/4					400					1165	190				265				360		610
	Y132S-4/5.5					475					1240	210	540	490		315		610	523			
	Y180M-2/22		1290	225	840	670					4	1435	285	610		550		430	610			
	Y200L-2/30		1720	250	940	775						1540	310					475	40	380		630
	Y200L-2/37											655	4-φ28									
IS125-100-200	Y112M-4/4	110	1140	210	740	400	125	500	140	3	1165	190	490	440	200	265	30	340	620	493	4-φ24	
	Y132S-4/5.5		475			1240					210	315				523						
	Y132M-4/7.5		515			1280					285	540	490	430		610						
	Y180M-2/22		1290	225	840	670					1435	285	540	490		430		610	610			
	Y200L-2/30		1420	250	940	775					1540	310	610	550		475		40	380	660	655	4-φ28

Continued

泵型号 Pump	电机机座号/功率 (Kw) Frame size/Power	外形安装尺寸 Overall and installation Dimensions																							
		A	L ₁	L ₂	L ₃	L ₄	a	f	x	c	L ₅	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	n- φ d				
IS125-100-200	Y200L-2/37	110	1420	250	940	775	125	500	140	3	1540	310	610	550	200	475	40	380	660	655	4- φ 28				
	815					1580					345	530				685									
IS125-100-250	Y132S-4/5.5	110	1270	225	840	475	140	530	140	3	1285	210	540	490	225	315	30	385	665	568	4- φ 24				
	Y132M-4/7.5					515					1325									610		600	610		
	Y160M-4/11					600					1410	255	610	600						385					
	Y200L-2/37	110	1420	250	940	775	140	530	140	4	1585	310	610	550	225	475	40	405	635	680	4- φ 28				
	Y225M-2/45					815					1625	345	660	600						530		730			
	Y250M-2/55					930					1740	385	730	670						575		750			
	Y280S-2/75					1000					1810	410	730	670						640		785			
IS125-100-315	Y160M-4/11	110	1270	225	840	600	140	530	140	4	1410	225	540	490	250	385	30	410	725	635	4- φ 24				
	Y160L-4/15					645					1455		610	550						640		810			
	Y280S -2/75					1000					1810	410	730	670						640		40	450	765	810
	Y280M-2/90					1050					1860	460	300	740						760		895			
	Y315S-2/110					1190					2000	460	300	740						760		895			
IS150-125-250	Y160M-4/11	110	1280	225	840	600	140	530	140	4	1410	255	540	490	250	385	30	410	765	635	4- φ 28				
	Y160L-4/15		645			1455					610		550	640						810					
	Y180M-4/18.5		670	1480	285	610					550	430	785	680											

Continued

泵型号 Pump	电机机座号/功率 (Kw) Frame size/Power	外形安装尺寸 Overall and installation Dimensions																				
		A	L ₁	L ₂	L ₃	L ₄	a	f	x	c	L ₅	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	n-φd	
IS150-125-315	Y180M-4/18.5	130	1620	290	1060	670	140	530	140	4	1480	285	660	600	280	430	40	485	835	730	4-φ28	
	710					1520					755											
	775					1685					310									475		
IS150-125-400	Y200L-4/30	130	1620	290	1060	775	140	530	140	4	1585	310	660	600	315	475	40	515	915	790	4-φ28	
	820					1630					345									530		820
	845					1655					285											
IS200-150-250	Y180L-4/22	130	1620	290	1060	710	160	530	180	4	1580	310	660	600	280	430	40	480	855	730	4-φ28	
	775					1645					345									475		755
	820					1690																
IS200-150-315	Y200L-4/30	130	1820	320	1200	775	160	670	180	4	1785	310	730	670	315	530	40	515	915	790	4-φ28	
	820					1830					345									475		820
	845					1855																
	930					1940					385									790		840
IS200-150-400	Y225M-4/45	130	1820	320	1200	845	160	670	180	4	1855	345	730	670	315	530	40	515	965	820	4-φ28	
	930					1940					385									575		840
	1000					2010					410									640		875
	1050		2060																			

IR IS 型泵法兰尺寸图

Dimensions of Suction and Delivery Flange Figure for Type IS Pump

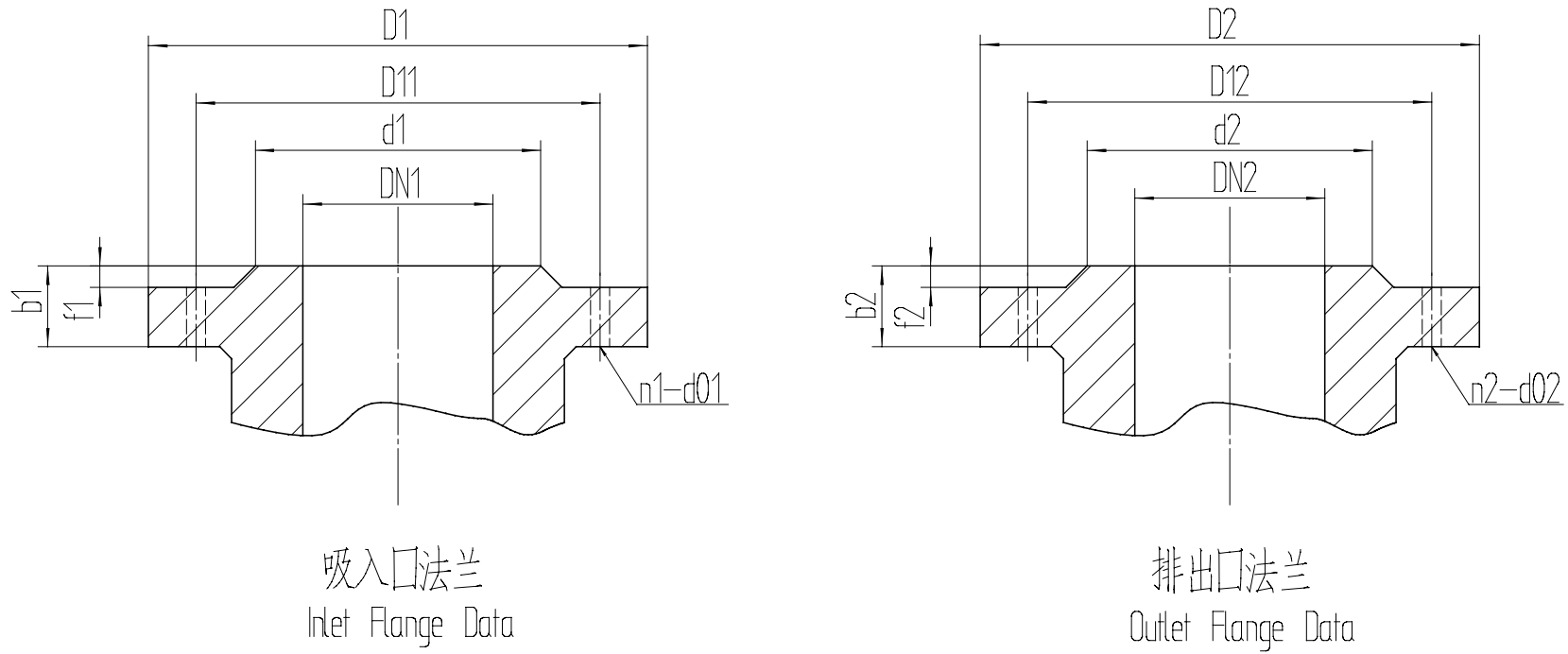


图 5 Figure 5

表 4 Chart 4

泵型号 Pump	吸入口法兰尺寸 Dimensions of Suction Flange							排出口法兰尺寸 Dimensions of Delivery Flange						
	DN ₁	D ₁	D ₁₁	d ₁	b ₁	f ₁	n-d ₀₁	DN ₂	D ₂	D ₁₂	d ₂	b ₂	f ₂	n-d ₀₂
IS50-32-125	50	165	125	102	20	3	4-φ 17.5	32	140	100	78	18	3	4-φ 17.5
IS50-32-160														
IS50-32-200														
IS50-32-250														
IS65-50-125	65	185	145	122	20	3	4-φ 17.5	50	165	125	102	20	3	4-φ 17.5
IS65-50-160														
IS65-40-200	65	185	145	122	20	3	4-φ 17.5	40	150	110	88	18	3	4-φ 17.5
IS65-40-250														
IS65-40-315 _o														
IS80-65-125	80	200	160	133	22	3	8-φ 17.5	65	185	145	122	20	3	4-φ 17.5
IS80-65-160														
IS80-50-200	80	200	160	133	22	3	8-φ 17.5	50	165	125	102	20	3	4-φ 17.5
IS80-50-250														
IS80-50-315														
IS100-80-125	100	220	180	158	24	3	8-φ 17.5	80	200	160	133	22	3	8-φ 17.5
IS100-80-160														
IS100-65-200	100	220	180	158	24	3	8-φ 17.5	65	185	145	122	20	3	4-φ 17.5
IS100-65-250														
IS100-65-315														

Continued

泵型号 Pump	吸入口法兰尺寸 Dimensions of Suction Flange							排出口法兰尺寸 Dimensions of Delivery Flange						
	DN ₁	D ₁	D ₁₁	d ₁	b ₁	f ₁	n-d ₀₁	DN ₂	D ₂	D ₁₂	d ₂	b ₂	f ₂	n-d ₀₂
IS125-100-200	125	250	210	184	26	3	8-φ 17.5	100	220	180	158	24	3	8-φ 17.5
IS125-100-250														
IS125-100-315														
IS125-100-400														
IS150-125-250	150	285	240	212	28	3	8-φ 22	125	250	210	184	26	3	8-φ 17.5
IS150-125-315														
IS150-125-400														
IS200-150-250	200	340	295	268	30	3	8-φ 22	150	285	240	212	28	3	8-φ 22
IS200-150-315														
IS200-150-400														

表 5 Chart 5

管径 Pipe Diameter (mm)	流量 Flow (L/s)																											
	1	2	4	6	8	10	直管摩擦损失简表（供估计用）管 100m 直管 The amount of friction loss in 100m straight pipe from the table (by estimate) is based on material in the new cast iron pipe. 损失米数以新铸铁管位标准旧管加倍 Two times value for the old cast iron pipe.																					
25	32.7	13.0																										
38	3.5	14.0	55				15	20																				
50	0.3	3.1	13	29					25	30																		
65		0.8	3.2	7.1	13	20					40	50																
75		0.4	1.6	3.3	5.9	9.6	21.6						60	70														
100			0.4	0.8	1.3	2.1	6.8	8.6	13	19.4					80	90												
125				0.23	0.4	0.63	1.3	2.7	4.1	5.9	10.7						100	110										
150					0.16	0.26	0.58	1.1	1.6	2.3	4.2	6.4	9.4						120	130								
175						0.11	0.27	0.5	0.74	1.05	1.9	2.9	4.3	5.8	7.7	9.6						140	160					
200							0.13	0.26	0.37	0.53	0.92	1.5	2.1	2.9	3.7	4.7	6.1	7.2	8.5						180	200		
250								0.07	0.12	0.18	0.30	0.48	0.68	0.93	1.2	1.5	1.9	2.3	2.8	3.0	3.7	4.9	0.2					
300										0.07	0.12	0.19	0.27	0.37	0.49	0.61	0.76	0.9	1.1	1.3	1.5	2.0	2.4	3.0				

阀及弯管折合直管长度（每个）

种类	折合管路直径倍数	备注
全开闸阀	13	未敞开加倍
标准弯管	25	
逆止阀	100	
底阀	100	部分堵塞加倍

注：例如 100 mm 直径管，底阀折合 100 倍直径等于 $100 \times 100 = 10000 \text{ mm} = 10\text{m}$ 直管长度，假定流量为 8L/s 查上表（表 5），直管每 100m 损失 1.3m, 则 10m 损失 0.13m, 即一个 100 mm 的底阀, 流量为 8L/s 时则损失扬程 0.13m.

一定管路直径之最大流量限制

管路直径 (mm)	最大流量 (L/s)	最大流速 (m/s)	管路直径 (mm)	最大流量 (L/s)	最大流速 (m/s)
25	1	2.04	125	30.0	2.44
38	2.5	1.69	150	43.0	2.44
50	4.17	2.12	175	60.0	2.49
65	6.67	2.01	200	83.3	2.69
75	10.0	2.26	250	133.3	2.72
100	18.4	2.38	300	192.0	2.71

注：超过此限制管路损失显著增加。

Valve and Elbow in Terms of Equivalent Length of Straight Pipe(each)

Items	Multiple in Terms of Equivalent pipe Diameter	Remarks
Full open valve	13	Double for not full open
Standard elbow	25	
Check valve	100	
Foot valve	100	Double for Partial Clogging

Note: For example in pipe of diameter 100 mm, foot valve terms equivalent length $100 \times 100 = 10000 \text{ mm} = 10\text{m}$ of straight pipe of 100 times diameter. As summing flow is in 8L/s , from the above table(chart 5), the loss 1.3m per 100m straight pipe and loss in 10m straight pipe is 0.13m . So head for a 100 mm foot valve are 0.13m with flow of 8L/s.

Range of Maximum Floe for Nominal Pipe Diameter

Pipe Diameter (mm)	Maximum Flow(L/s)	Maximum Velocity(m/s)	Pipe Diameter (mm)	Maximum Flow(L/s)	Maximum Velocity(m/s)
25	1	2.04	125	30.0	2.44
38	2.5	1.69	150	43.0	2.44
50	4.17	2.12	175	60.0	2.49
65	6.67	2.01	200	83.3	2.69
75	10.0	2.26	250	133.3	2.72
100	18.4	2.38	300	192.0	2.71

Note: Loss in pipe increased obviously beyond this limit.