

IS、IR、IY 型单吸单级离心泵

IS, IR, IY type single suction
single-stage centrifugal pumps

安装使用说明书

Installation and Use Manual



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概 述

General

IS 型泵是单级单吸（轴向吸入）离心泵，供输送温度低于 80℃ 的清水或物理、化学性质类似于水的其他液体，泵的进口压力小于 0.3MPa，适用于工业和城市给排水及农业排灌。

IR 型热水离心泵是在 IS 型单级离心泵的基础上派生的节能产品，该系列产品设计合理，安装维修方便，适用于输送温度低于 130℃ 的清水或物理、化学性质类似于水的介质。泵的吸入口压力不大于 0.6MPa，可用于热水锅炉及与换热器配套，作为循环水泵，给水泵，也可作其他用途的输水泵，如城市给排水和矿山排水等。

IY 型单级单吸输油离心泵，适用于输送不含固体颗粒，粘度小于 120 厘沱的无腐蚀类和石油产品。也供输送清水或物理及化学性质类似于清水的其他液体，温度不高于 80℃，进口压力不大于 0.3MPa。

Type IS pump is single stage single suction(axial suction) centrifugal pump, deliver clean water or other liquid which chemical & physical feature is similar with clean water, the temperature is less than 80 °C .Inlet pressure is less than 0.3MPa, it is suitable for delivering water in industry, city and farm irrigation.

Type IR pump is heat centrifugal pump, the serial pump design reasonable, installing & repairing conveniently, it suitable for delivery clean water or which chemical & physical feature is similar with clean water. Inlet pressure is less than 0.3MPa, the temperature is not more than 130 °C .it can equipped with boiler and heat-changer, as circulating water pump or feed pump, also used to supply water, for example, supply water in city and mine etc.

Type IY pump is single stage single suction centrifugal oil pump, suitable for delivery no corrosive liquids and petroleum products, which is not contain solids and the Viscosity is less than 120Cst. Also used to deliver clean water or other liquid which chemical & physical feature is similar with clean water, the temperature is less than 80 °C .Inlet pressure is less than 0.3MPa

性 能 范 围（设计点）

Performance Range(design point)

流量 Capacity: 6.3~400m³/h

扬程 Head: 5~125m

型 号 意 义

Type Description

IS（IR、IY）80-65-125A

IS—单级单吸清水离心泵

IR—单级单吸热水离心泵

IY—单级单吸输油离心泵

80—泵入口直径为 80mm

65—泵出口直径为 65mm

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

IR—Single-stage single-suction heat wate centrifugal pump

IY—Single-stage single-suction centrifugal oil pump

80—Inlet diameter is 80mm

65—Outlet diameter is 65mm

125—叶轮名义直径 125mm

125— Impeller nominal diameter is 125mm

A—叶轮外径 切割代号 (A、B、C
分别表示第一、二、三次切割)A—The code of impeller is cut (A、B、C stand
for first cut, second cut and third cut respectively)

结构特点

Construction feature

IS 型泵是根据国际标准 ISO2858 所规定的性能和尺寸设计的。泵主要由泵体、泵盖、叶轮、轴、密封部件和悬架部件等组成。

泵的结构采取后开门的结构形式，即泵体与泵盖的分界在叶轮背面，泵体和泵盖构成泵的工作室；叶轮、轴和滚动轴承等为泵的转子；悬架和轴承部件支撑泵的转子。为了平衡泵的轴向力，大多数叶轮前、后均设有密封环，并在叶轮后盖板上设有平衡孔。但有些泵的轴向力不大，叶轮背面不必设密封环和平衡孔。

IR、IY 型泵结构形式与 IS 型泵基本相同，IR 型泵泵盖与水冷室盖组成水冷室，用于可靠地冷却填料、轴及阻止热量向轴承传递。

轴承 采用两个向心球轴承（IR 泵为一个向心球轴承，两个向心推力球轴承）装在悬架内，支撑泵轴，承受泵的径向力与轴向力。

轴封 IS 型泵采用填料密封，在轴封处装有轴套以保护轴；也可根据用户要求装配机械密封。

IR 型泵的轴向密封采用填料密封和机械密封两种方式，泵盖上设有内水封孔，外水封孔和冷却腔。

IY 型泵的轴向密封采用机械密封，也可根据用户要求装配填料密封。

密封和冷却方式有以下几种：

- (1) 填料密封 体内水封 不接冷却水；
- (2) 填料密封 体内水封 接冷却水；
- (3) 填料密封 体外水封 不接冷却水；
- (4) 填料密封 体外水封 接冷却水；
- (5) 机械密封 不接冷却水；
- (6) 机械密封 接冷却水。

Type IS pump is designed according to National Standard ISO2858. Main parts are pump casing, pump cover, impeller, shaft, sealing parts and cantilever parts etc.

IS pump is designed at full back pullout, the pump casing and pump cover is separate from impeller back face, Pump casing and pump cover are combined a working house; impeller, shaft, and rolling bearing are combined a rotor; cantilever support and bearing parts support the rotor. To balance the axial force, impeller rear cover have balance holes, impeller have wearing. If the axial force is small, the impeller rear back hasn't wearing and balance holes.

IR pump have same construction type with IS pump, pump cover and sealing hose are combined a cooling house, used for cooling packing and shaft, and prevent heat sending to bearing.

Bearing: adopt two radial ball bearing, (IR pump is one set radial ball bearing, two set radial thrust-force ball bearing), installed in cantilever support, to support pump shaft, and bear pump axial force and radial force.

Seal: IS pump is adopted packing seal, in seal, shaft sleeve is installed to protect shaft; mechanical

seal can be used according to user requirement.

IR pump seal have two type: packing seal and mechanical seal, in pump cover have water sealing hole, outer water sealing hole and cooling house.

IY pump is adopted mechanical seal; packing seal can be used according to user requirement.

Type of sealing and cooling has several kinds as follow:

- (1) packing sealing: itself water sealing without cooling water
- (2) packing sealing: itself water sealing with cooling water
- (3) packing sealing: outer water sealing without cooling water
- (4) packing sealing: outer water sealing with cooling water
- (5) mechanical seal: without cooling water
- (6) mechanical seal: with cooling water

各种密封和冷却方式的适用条件见下表:

All kinds seal and cooling condition as follow:

介质温度 (°C) Medium temperature	≤80	>80~100	≥100~150
密封与冷却方式 Type of seal and cooling	(1) (5)	(2)(3)(5)	(4)(6)

冷却水压力: $P=0.15\sim0.3\text{MPa}$, 水封水压力比轴封前大 $0.05\sim0.1\text{MPa}$

水封水需水量: $0.2\sim0.5\text{m}^3/\text{h}$

冷却水需水量: $0.3\sim0.7\text{m}^3/\text{h}$

传动 通过弹性联轴器由电动机直接驱动; 从电机端看, 泵为顺时针方向旋转。

Cooling water pressure: $P=0.05\sim0.3\text{MPa}$, the Sealing water pressure is over $0.05\sim0.1\text{MPa}$ than sealing house.

Sealing water flow: $0.2\sim0.5\text{m}^3/\text{h}$

Cooling water flow: $0.3\sim0.7\text{m}^3/\text{h}$

Driver: pump is driver by motor directly through flexible coupling; view from motor end, the rotating direction is clockwise.

材料

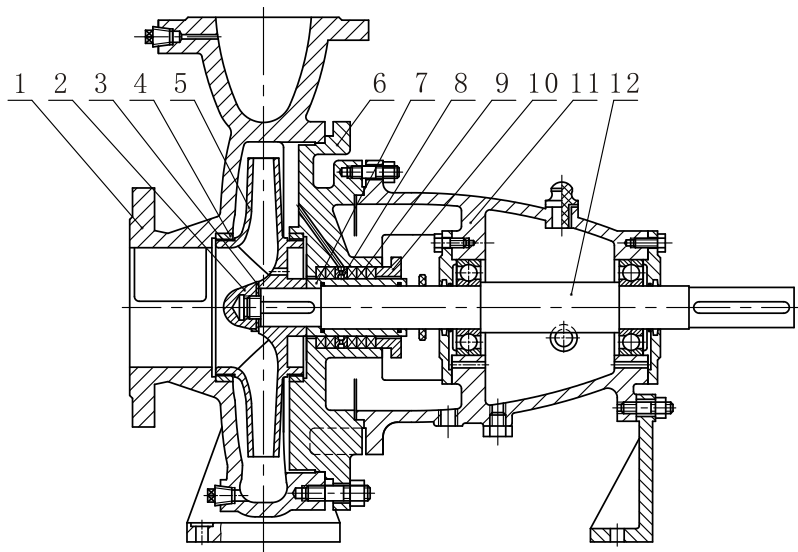
Material

零件名称 Part name	材料 Material	零件名称 part name	材料 Material
泵体 pump casing	HT200	泵轴 shaft	45
泵盖 pump cover	HT200	叶轮 impeller	HT200
密封环 wearing	HT200	轴套 shaft sleeve	HT200

注: 材料可根据用户要求选配。

Note: the material can be supplied according to user requirement.

IS、IY 型泵结构图
IS、IY pump construction Drawing

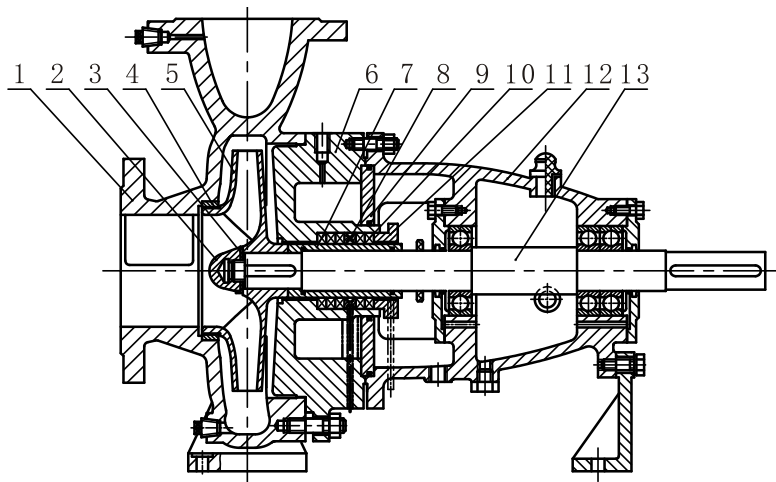


- | | |
|----------|----------------------------|
| 1、泵体 | 1、pump casing |
| 2、叶轮螺母 | 2、impeller nut |
| 3、止动垫圈 | 3、gasket |
| 4、密封环* | 4、wearing* |
| 5、叶轮 | 5、impeller |
| 6、泵盖 | 6、pump cover |
| 7、轴套* | 7、shaft sleeve* |
| 8、填料环* | 8、packing ring* |
| 9、填料 | 9、packing |
| 10、填料压盖 | 10、packing cover |
| 11、悬架轴承部 | 11、cantilever bearing part |
| 12、轴 | 12、shaft |

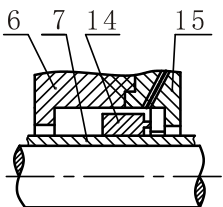
带*号表示易损件

t is wearable part with symbol *

IR 型泵结构图
IR pump construction Drawing



机械密封装配图
mechanical seal assembly drawing



- | | |
|----------------|---|
| 1、泵体 | 1、pump casing |
| 2、叶轮螺母 | 2、impeller nut |
| 3、止动垫圈 | 3、gasket |
| 4、密封环* | 4、wearing* |
| 5、叶轮 | 5、impeller |
| 6、泵盖 | 6、pump cover |
| 7、轴套* | 7、shaft sleeve* |
| 8、填料环* | 8、packing ring* |
| 9、水冷室盖 | 9、cooling house cover |
| 10、填料 | 10、Packing |
| 11、水冷填料压盖或填料压盖 | 11、packing cover or cooling water packing cover |
| 12、悬架轴承部 | 12、cantilever bearing part |

Cantilever bearing part

13、轴 shaft

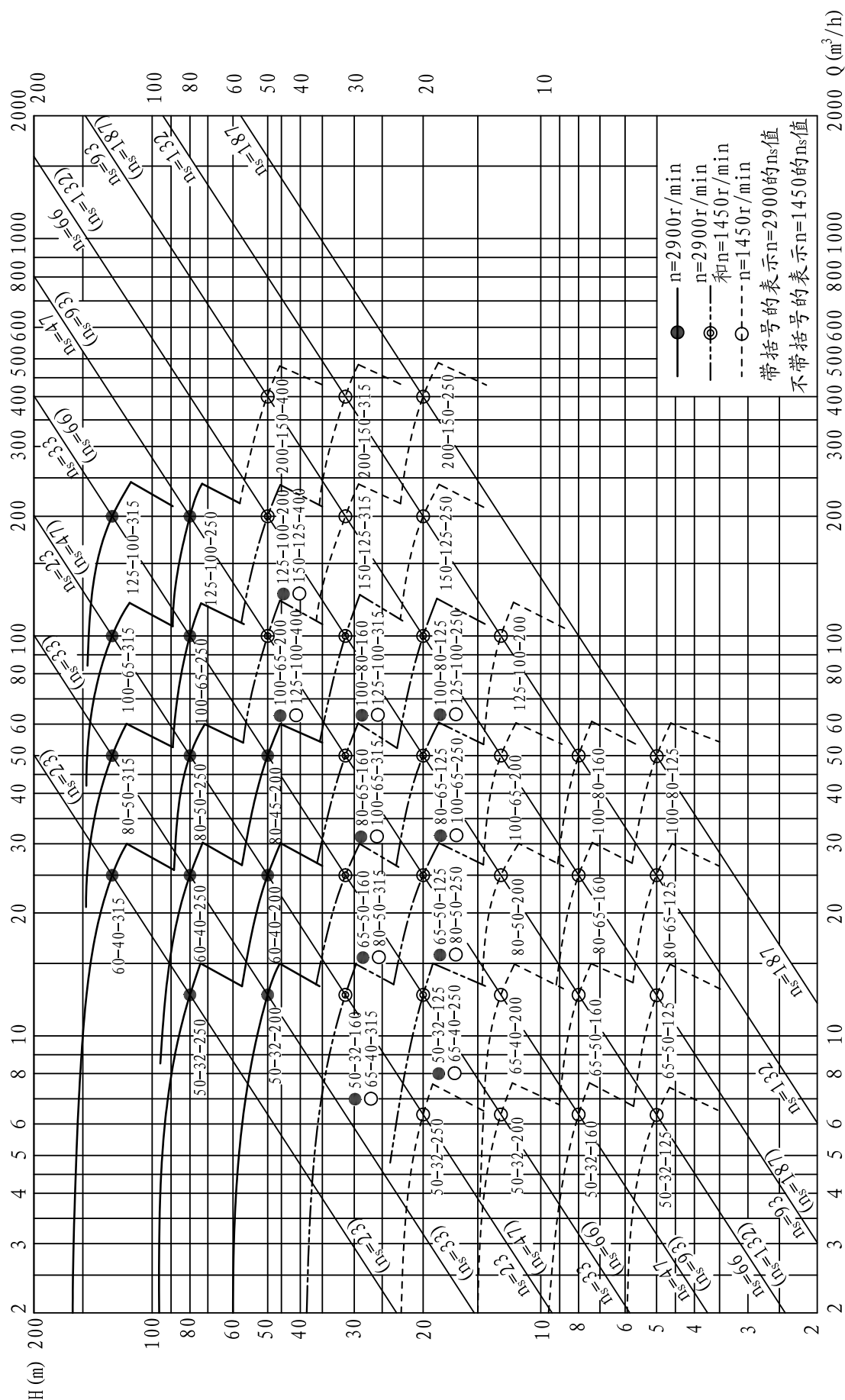
14、机械密封 mechanical seal

15、机械密封压盖
mechanical seal cove

带*号表示易损件

It is wearable part with symbol *

Available head-capacity cues



性能参数表
Sheet of Performance Date

参数 Date 型号 Type	流量		扬程	转速	轴功率	电机 motor		效率	必需汽	泵口径		泵重
	Flow		Head	Spead	Shart power	功率 Power	型号 Type	Eff η	蚀余量 NPSHr	吸入 Suction dia	吐出 Discharge dia	Pump weight
	m³/h	L/s	m	r/min	kW	kW		%	m	mm	mm	kg
IS IR50-32-125 IY	7.5	2.08	22	2900	0.96	2.2	Y90L-2	47	2.0	50	32	40
	12.5	3.14	20		1.13			60	2.0			
	15	4.17	18.5		1.26			60	2.5			
	3.75	1.04	5.4	1450	0.13	0.55	Y801-4	43	2.0			
	6.3	1.74	5		0.16			54	2.0			
	7.5	2.08	4.6		0.17			55	2.5			
IS IR50-32-125A IY	6.75	1.87	17.8	2900	0.71	1.5	Y90S-2	46	2.0	50	32	40
	11.25	3.12	16.2		0.84			59	2.0			
	13.5	3.75	15		0.94			59	2.5			
IS IR50-32-125B IY	6	1.67	14.1	2900	0.51	1.1	Y802-2	45	2.0	50	32	40
	10	2.78	12.8		0.6			58	2.0			
	12	3.33	11.8		0.67			58	2.5			
IS IR50-32-160 IY	7.5	2.08	34.3	2900	1.59	3.0	Y100L-2	44	2.0	50	32	40
	12.5	3.47	32.0		2.02			54	2.0			
	15.0	4.17	29.6		2.16			56	2.5			
	3.75	1.04	8.5	1450	0.25	0.55	Y801-4	35	2.0			
	6.3	1.74	8.0		0.29			48	2.0			
	7.5	2.08	7.5		0.31			49	2.5			
IS IR50-32-160A IY	6.75	1.87	27.8	2900	1.19	2.2	Y90L-2	43	2.0	50	32	40
	11.25	3.12	26.0		1.50			53	2.0			
	13.5	3.75	24.0		1.60			55	2.5			
IS IR50-32-160B IY	6	1.67	22.0	2900	0.86	1.5	Y90S-2	42	2.0	50	32	40
	10	2.78	20.5		1.07			52	2.0			
	12	3.33	18.9		1.14			54	2.5			
IS IR50-32-200 IY	7.5	2.08	52.5	2900	2.82	5.5	Y132S1-2	38	2.0	50	32	43
	12.5	3.47	50.0		3.55			48	2.0			
	15.0	4.17	48.0		3.85			51	2.5			
	3.75	1.04	13.1	1450	0.41	0.75	Y802-4	33	2.0			
	6.3	1.74	12.5		0.51			42	2.0			
	7.5	2.08	12.0		0.56			44	2.5			
IS IR50-32-200A IY	6.75	1.87	42.5	2900	2.11	4.0	Y112M-2	37	2.0	50	32	43
	11.25	3.12	40.5		2.65			47	2.0			
	13.5	3.75	38.9		2.94			50	2.5			
IS IR50-32-200B IY	6.0	1.67	33.6	2900	1.53	3	Y100L-2	36	2.0	50	32	43
	10.0	2.78	32.0		1.90			46	2.0			
	12.0	3.33	30.7		2.05			49	2.5			
IS IR50-32-250 IY	7.5	2.08	82.0	2900	5.87	11	Y160M1-2	28.5	2.0	50	32	76
	12.5	3.47	80.0		7.16			38	2.0			
	15.0	4.17	78.5		7.83			41	2.5			

性能参数表
Sheet of Performance Date

参数 Date 型号 Type	流量		扬程	转速	轴功率	电机 motor		效率	必需汽	泵口径		泵重
	Flow		Head	Spead	Shart power	功率 Power	型号 Type	Eff η	蚀余量 NPSHr	吸入 Suction dia	吐出 Discharge dia	Pump weight
	m³/h	L/s	m	r/min	kW	kW		%	m	mm	mm	kg
IS IR50-32-250 IY	3.75	1.04	20.5		0.91		Y90L-4	23	2.0			
	6.3	1.74	20	1450	1.07	1.5		32	2.0	50	32	76
	7.5	2.08	19.5		1.14			35	2.5			
IS IR50-32-250A IY	6.75	1.87	66.4		4.44		Y132S2-2	27.5	2.0			
	11.25	3.12	64.8	2900	5.35	7.5		37	2.0			
	13.5	3.75	63.6		5.85			40	2.5			
	3.35	0.94	16.6		0.69		Y90S-4	22	2.0	50	32	76
	5.62	1.56	16.2	1450	0.80	1.1		31	2.0			
	6.75	1.87	15.9		0.86			34	2.5			
IS IR65-50-125 IY	15.0	4.17	21.8		1.54		Y100L-2	58	2.0			
	25.0	6.94	20.0	2900	1.97	3.0		69	2.0			
	30.0	8.33	18.5		2.22			68	3.0			
	7.5	2.08	5.4		0.21		Y801-4	53	2.0	65	50	40
	12.5	3.47	5.0	1450	0.27	0.55		64	2.0			
	15.0	4.17	4.6		0.30			65	2.5			
IS IR65-50-125A IY	14.25	3.96	19.7		1.34		Y90L-2	57	2.0			
	23.75	6.59	18.1	2900	1.72	2.2		68	2.0	65	50	40
	28.5	7.91	16.7		1.94			67	3.0			
IS IR65-50-125B IY	12.75	3.54	15.8		0.98		Y90S-2	56	2.0			
	21.25	5.90	14.5	2900	1.25	1.5		67	2.0	65	50	40
	25.5	7.08	13.4		1.40			66	3.0			
IS IR65-50-160 IY	15.0	4.17	35.0		2.65		Y132S1-2	54	2.0			
	25.0	6.94	32.0	2900	3.35	5.5		65	2.0			
	30.0	8.33	30.0		3.71			66	2.5			
	7.5	2.08	8.8		0.36		Y802—4	50	2.0	65	50	46
	12.5	3.47	8.0	1450	0.45	0.75		60	2.0			
	15.0	4.17	7.5		0.51			60	2.5			
IS IR65-50-160A IY	14.25	3.96	31.6		2.31		Y112M—2	53	2.0			
	23.75	6.59	28.9	2900	2.92	4		64	2.0	65	50	46
	28.5	7.91	27.1		3.23			65	2.5			
IS IR65-50-160B IY	12.75	3.54	25.3		1.69		Y100L-2	52	2.0			
	21.25	5.90	23.1	2900	2.13	3		63	2.0	65	50	46
	25.5	7.08	21.7		2.35			64	2.5			
IS IR65-40-200 IY	15.0	4.17	53.0		4.42		Y132S2-2	49	2.0			
	25.0	6.94	50.0	2900	5.67	7.5		60	2.0			
	30.0	8.33	47.0		6.30			61	2.5			
	7.5	2.08	13.2		0.63		Y90S-4	43	2.0	65	40	50
	12.5	3.47	12.5	1450	0.77	1.1		55	2.0			
	15.0	4.17	11.8		0.85			57	2.5			

性能参数表
Sheet of Performance Date

参数 Date 型号 Type	流量		扬程	转速	轴功率	电机 motor		效率	必需汽	泵口径		泵重
	Flow		Head	Spead	Shart power	功率 Power	型号 Type	Eff η	蚀余量 NPSHr	吸入 Suction dia	吐出 Discharge dia	Pump weight
	m ³ /h	L/s	m	r/min	kW	kW		%	m	mm	mm	kg
IS IR65-40-200A IY	12.0	3.33	33.9		2.31			48	2.0			
	20.0	5.56	32.0	2900	2.96	4	Y112M-2	59	2.0			
	24.0	6.67	30.1		3.28			60	2.5			
	6.0	1.67	8.5		0.33			42	2.0	65	40	50
	10.0	2.78	8.0	1450	0.40	0.75	Y802-4	54	2.0			
	12.0	3.33	7.6		0.45			56	2.5			
IS IR65-40-250 IY	15.0	4.17	82.0		9.05			37	2.0			
	25.0	6.94	80.0	2900	10.89	15	Y160M2-2	50	2.0			
	30.0	8.33	78.0		12.02			53	2.5			
	7.5	2.08	21.0		1.23			35	2.0	65	40	80
	12.5	3.47	20.0	1450	1.48	2.2	Y100L1-4	46	2.0			
	15.0	4.17	19.4		1.65			48	2.5			
IS IR65-40-250A IY	12.0	3.33	52.5		4.76			36	2.0			
	20.0	5.56	51.2	2900	5.70	7.5	Y132S2-2	49	2.0			
	24.0	6.67	49.9		6.28			52	2.5			
	6.0	1.67	13.1		0.63			34	2.0	65	40	80
	10.0	2.78	12.8	1450	0.78	1.5	Y90L-4	45	2.0			
	12.0	3.33	12.5		0.87			47	2.5			
IS IR65-40-315 IY	15.0	4.17	127.0		18.5			28	2.5			
	25.0	6.94	125.0	2900	21.3	30	Y200L1-2	40	2.5	65	40	106
	30.0	8.33	123.0		22.8			44	3.0			
	7.5	2.08	32.3		2.63			25	2.5			
	12.5	3.47	32.0	1450	2.94	4	Y112M-2	37	2.5	65	40	106
	15.0	4.17	31.7		3.16			41	3.0			
IS IR65-40-315A IY	13.5	3.75	102.9		14.0			27	2.5			
	22.5	6.25	101.3	2900	15.9	22	Y180M-2	39	2.5			
	27.0	7.5	99.6		17.04			43	3.0			
	6.73	1.87	25.7		1.96			24	2.5	65	40	106
	11.23	3.12	25.3	1450	2.15	3	Y100L2-4	36	2.5			
	13.5	3.75	24.9		2.29			40	3.0			
IS IR65-40-315B IY	12.85	3.57	81.3		10.95			26	2.5			
	21.24	5.90	80.0	2900	12.18	18.5	Y160L-2	38	2.5	65	40	106
	25.49	7.08	78.7		13.01			42	3.0			
IS IR80-65-125 IY	30.0	8.33	22.5		2.87			64	3.0			
	50.0	13.89	20.0	2900	3.63	5.5	Y132S1-2	75	3.0			
	60.0	16.67	18.0		3.98			74	3.5			
	15.0	4.17	5.6		0.42			55	2.5	80	65	43
	25.0	6.94	5.0	1450	0.48	0.75	Y802-4	71	2.5			
	30.0	8.33	4.5		0.51			72	3.0			

性能参数表
Sheet of Performance Date

参数 Date 型号 Type	流量		扬程	转速	轴功率	电机 motor		效率	必需汽	泵口径		泵重
	Flow		Head	Spead	Shart power	功率 Power	型号 Type	Eff η	蚀余量 NPSHr	吸入 Suction dia	吐出 Discharge dia	Pump weight
	m³/h	L/s	m	r/min	kW	kW		%	m	mm	mm	kg
IS IR80-65-125A IY	28.5	7.92	20.3		2.50		Y112M-2	63	3.0			
	47.5	13.19	18.1	2900	3.16	4		74	3.0	80	65	43
	57.0	15.83	16.3		3.46			73	3.5			
IS IR80-65-125B IY	25.5	7.08	16.3		1.83		Y100L-2	62	3.0			
	42.5	11.82	14.5	2900	2.29	3		73	3.0	80	65	43
	51.0	14.17	13.0		2.51			72	3.5			
IS IR80-65-160 IY	30.0	8.33	36.0		4.82		Y132S2-2	61	2.2			
	50.0	13.89	32.0	2900	5.97	7.5		73	2.5	80	65	44
	60.0	16.67	29.0		6.59			72	3.0			
IS IR80-65-160 IY	15.0	4.17	9.0		0.67		Y90L—4	55	2.0			
	25.0	6.94	8.0	1450	0.79	1.5		69	2.0	80	65	44
	30.0	8.33	7.2		0.86			68	2.5			
IS IR80-65-160A IY	24.0	6.67	23.0	2900	2.51		Y112M-2	60	2.5			
	40.0	11.12	20.5		3.10	4		72	2.5			
	48.0	13.33	18.6		3.42			71	3.0			
	12.0	3.33	5.8		0.35		Y90S—4	54	2.5	80	65	44
	20.0	5.56	5.1	1450	0.41	1.1		68	2.5			
	24.0	6.67	4.6		0.45			67	3.0			
IS IR80-50-200 IY	30.0	8.33	53.0		7.88		Y160M2-2	55	2.5			
	50.0	13.89	50.0	2900	9.87	15		69	2.5			
	60.0	16.67	47.0		10.8			71	3.0			
	15.0	4.17	13.2		1.06		Y100L1-4	51	2.5	80	65	48
	25.0	6.94	12.5	1450	1.31	2.2		65	2.5			
	30.0	8.33	11.8		1.44			67	3.0			
IS IR80-50-200A IY	25.5	7.08	38.3		4.92		Y132S2-2	54	2.5			
	42.5	11.8	36.1	2900	6.15	7.5		68	2.5			
	51.0	14.17	34.0		6.77			70	3.0			
	12.75	3.54	9.6		0.66		Y90L—4	50	2.5	80	65	48
	21.25	5.90	9.0	1450	0.81	1.5		64	2.5			
	25.5	7.08	8.5		0.89			66	3.0			
IS IR80-50-200B IY	24.0	6.67	33.92		4.19		Y132S2-2	53	2.5			
	40.0	11.11	32.0	2900	5.21	7.5		67	2.5			
	48.0	13.33	30.1		5.71			69	3.0			
	12.0	3.33	8.5		0.56		Y90S—4	49	2.5	80	65	48
	20.0	5.56	8.0	1450	0.69	1.1		63	2.5			
	24.0	6.67	7.6		0.76			65	3.0			
IS IR80-50-250 IY	30.0	8.33	84.0		13.2		Y180M—2	52	2.5			
	50.0	13.89	80.0	2900	17.3	22		63	2.5	80	65	86
	60.0	16.67	74.0		19.2			64	3.0			

性能参数表
Sheet of Performance Date

参数 Date 型号 Type	流量		扬程	转速	轴功率	电机 motor		效率	必需汽	泵口径		泵重
	Flow		Head	Spead	Shart power	功率 Power	型号 Type	Eff η	蚀余量 NPSHr	吸入 Suction dia	吐出 Discharge dia	Pump weight
	m³/h	L/s	m	r/min	kW	kW		%	m	mm	mm	kg
IS IR80-50-250 IY	15.0	4.17	21.0		1.75		Y100L2-4	49	2.5			86
	25.0	6.94	20.0	1450	2.27	3		60	2.5	80	65	
	30.0	8.33	18.5		2.52			61	3.0			
IS IR80-50-250A IY	27.0	7.5	68.0		9.81		Y160L-2	51	2.5			86
	45.0	12.5	64.0	2900	12.81	18.5		62	2.5	80	65	
	54.0	15.0	60.8		14.22			63	3.0			
IS IR80-50-250B IY	25.5	7.08	60.7		8.43		Y160M2-2	50	2.5			86
	42.5	11.8	57.8	2900	10.97	15		61	2.5	80	65	
	51.0	14.17	54.2		12.17			62	3.0			
IS IR80-50-315 IY	30.0	8.33	128.0		25.5		Y200L1-2	41	2.5			109
	50.0	13.89	125.0	2900	31.5	37		54	2.5	80	50	
	60.0	16.67	123.0		35.5			57	3.0			
IS IR80-50-315 IY	15.0	4.17	32.5		3.4		Y132S-4	39	2.5			109
	25.0	6.94	32.0	1450	4.19	5.5		52	2.5	80	50	
	30.0	8.33	31.5		4.6			56	3.0			
IS IR80-50-315A IY	24.0	6.67	81.9		13.39		Y180M-2	40	2.5	80	50	109
	40.0	11.11	80.0	2900	16.43	22		53	2.5			
	48.0	13.33	78.7		18.39			56	3.0			
	12.0	3.33	20.8		1.97		Y112M-4	38	2.5			
	20.0	5.56	20.5	1450	2.19	4		51	2.5			
	24.0	6.67	20.2		2.4			55	3.0			
IS IR100-80-125 IY	60.0	16.67	24.0		5.86		Y160M1-2	67	4.0	100	80	58
	100.0	27.78	20.0	2900	7.0	11		78	4.5			
	120.0	33.33	16.5		7.28			74	5.0			
	30.0	8.33	6.0		0.77		Y90L—4	64	2.5			
	50.0	13.89	5.0	1450	0.91	1.5		75	2.5			
	60.0	16.67	4.0		0.92			71	3.0			
IS IR100-80-125A IY	57.0	15.83	21.7		5.10		Y132S2-2	66	4.0	100	80	58
	95.0	26.39	18.1	2900	6.08	7.5		77	4.5			
	114.0	31.67	14.9		6.33			73	5.0			
	28.5	7.92	5.4		0.67		Y90S—4	63	2.5			
	47.5	13.19	4.5	1450	0.79	1.1		74	2.5			
	57.0	15.83	3.6		0.80			70	3.0			
IS IR100-80-125B IY	51.0	14.17	17.34		3.71		Y132S1-2	65	4.0	100	80	58
	85.0	23.61	14.45	2900	4.40	5.5		76	4.5			
	102.0	28.33	11.92		4.60			72	5.0			
	25.5	7.08	4.3		0.49		Y802—4	62	2.5			
	42.5	11.8	3.6	1450	0.57	0.75		73	2.5			
	51.0	14.17	2.9		0.58			69	3.0			

性能参数表
Sheet of Performance Date

参数 Date 型号 Type	流量		扬程	转速	轴功率	电机 motor		效率	必需汽	泵口径		泵重
	Flow		Head	Spead	Shart power	功率 Power	型号 Type	Eff η	蚀余量 NPSHr	吸入 Suction dia	吐出 Discharge dia	Pump weight
	m³/h	L/s	m	r/min	kW	kW		%	m	mm	mm	kg
IS IR100-80-160 IY	60.0	16.67	36.0		8.42		Y160M2-2	70	3.5	100	80	79
	100.0	27.78	32.0	2900	11.2	15		78	4.0			
	120.0	33.33	28.0		12.2			75	5.0			
	30.0	8.33	9.2		1.12		Y100L1-4	67	2.0			
	50.0	13.89	8.0	1450	1.46	2.2		75	2.5			
	60.0	16.67	6.8		1.57			71	3.5			
IS IR100-80-160A IY	54.0	15.0	29.16		6.22		Y160M1-2	69	3.5	100	80	79
	90.0	25.0	25.92	2900	8.26	11		77	4.0			
	108.0	30.0	22.68		9.02			74	5.0			
	27.0	7.5	7.5		0.83		Y90L-4	66	2.0			
	45.0	12.5	6.5	1450	1.07	1.5		74	2.5			
	54.0	15.0	5.5		1.16			70	3.0			
IS IR100-65-200 IY	60.0	16.67	54.0		13.6		Y180M-2	65	3.5	100	65	86
	100.0	27.78	50.0	2900	17.9	22		76	3.6			
	120.0	33.33	47.0		19.9			77	4.8			
IS IR100-65-200 IY	30.0	8.33	13.5		1.84		Y112M-4	60	2.0	100	65	86
	50.0	13.89	12.5	1450	2.33	4		73	2.0			
	60.0	16.67	11.8		2.61			74	2.5			
IS IR100-65-200A IY	57.0	15.83	48.7		11.84		Y160L-2	64	3.0	100	65	86
	95.0	26.39	45.1	2900	15.55	18.5		75	3.6			
	114.0	31.67	42.4		17.28			76	4.8			
	28.5	7.92	12.2		1.16		Y100L2-4	59	2.0			
	47.5	13.19	11.3	1450	2.03	3		72	2.0			
	57.0	15.83	10.7		2.27			73	2.5			
IS IR100-65-200B IY	51.0	14.17	39.0		8.62		Y160M2-2	63	2.0	100	65	86
	85.0	23.61	36.1	2900	11.29	15		74	2.0			
	102.0	28.33	34.0		12.55			75	2.5			
IS IR100-65-250 IY	60.0	16.67	87.0		23.4		Y200L2-2	61	3.5	100	65	95
	100.0	27.78	80.0	2900	30.3	37		72	3.8			
	120.0	33.33	74.5		33.3			73	4.8			
	30.0	8.33	21.3		3.16		Y132S-4	55	2.0			
	50.0	13.89	20.0	1450	4.00	5.5		68	2.0			
	60.0	16.67	19.0		4.44			70	2.5			
IS IR100-65-250A IY	51.0	14.17	62.9		14.59		Y180M-2	60	3.5	100	65	95
	85.0	23.61	57.8	2900	18.87	22		71	3.8			
	102.0	28.33	53.8		20.73			72	4.8			
	25.5	7.08	15.4		1.98		Y112M-4	54	2.0			
	42.5	11.81	14.5	1450	2.50	4		67	2.0			
	51.0	14.17	13.7		2.77			69	2.5			

性能参数表
Sheet of Performance Date

参数 Date 型号 Type	流量		扬程	转速	轴功率	电机 motor		效率	必需汽	泵口径		泵重
	Flow		Head	Spead	Shart power	功率 Power	型号 Type	Eff η	蚀余量 NPSHr	吸入 Suction dia	吐出 Discharge dia	Pump weight
	m ³ /h	L/s	m	r/min	kW	kW		%	m	mm	mm	kg
IS IR100-65-250B IY	48.0	13.33	55.68		12.34			59	3.5			
	80.0	22.22	51.2	2900	15.95	18.5	Y160L-2	70	3.8			
	96.0	26.67	47.68		17.57			71	4.8			
	24.0	6.67	13.6		1.68			53	2.0	100	65	95
	40.0	11.11	12.8	1450	2.11	3	Y100L2-4	66	2.0			
	48.0	13.33	12.2		2.34			68	2.5			
IS IR100-65-315 IY	60.0	16.67	133.0		39.6			55	3.0			
	100.0	27.78	125.0	2900	51.6	75	Y280S-2	66	3.6			
	120.0	33.33	118.0		57.6			67	4.2			
	30.0	8.33	34.0		5.45			51	2.0	100	65	130
	50.0	13.89	32.0	1450	6.92	11	Y160M-4	63	2.0			
	60.0	16.67	30.0		7.67			64	2.5			
IS IR100-65-315A IY	57.0	15.83	120.0		34.58			54	3.0			
	95.0	26.39	112.8	2900	44.92	55	Y250M-2	65	3.6			
	114.0	31.67	106.5		50.06			66	4.2			
	28.5	7.92	30.7		4.75			50	2.0	100	65	130
	47.5	13.19	28.9	1450	6.03	7.5	Y132M-4	62	2.0			
	57.0	15.83	27.1		6.68			63	2.5			
IS IR100-65-315B IY	51.0	14.17	96.1		25.24			53	3.0			
	85.0	23.61	90.3	2900	32.68	45	Y225M-2	64	3.6			
	102.0	28.33	85.3		36.40			65	4.2			
	25.5	7.08	24.6		3.48			49	2.0	100	65	130
	42.5	11.8	23.1	1450	4.39	5.5	Y132S-4	61	2.0			
	51.0	14.17	21.7		4.87			62	2.5			
IS IR100-65-315C IY	48.0	13.33	85.1		21.05			53	3.0			
	80.0	22.22	80.0	2900	27.25	37	Y200L2-2	64	3.6	100	65	130
	96.0	26.67	75.5		30.35			65	4.2			
IS IR125-100-200 IY	120.0	33.33	57.5		28.0			67	4.5			
	200.0	55.56	50.0	2900	33.6	45	Y225M-2	81	4.5			
	240.0	66.67	44.5		36.4			80	5.0			
	60.0	16.67	14.5		3.83			62	2.5	125	100	87
	100.0	27.78	12.5	1450	4.48	7.5	Y132M-4	76	2.5			
	120.0	33.33	11.0		4.80			75	3.0			
IS IR125-100-200A IY	114.0	31.67	51.9		24.43			66	4.5			
	190.0	52.78	45.1	2900	29.19	37	Y200L2-2	80	4.5			
	228.0	63.33	40.2		31.61			79	5.0			
	57.0	15.83	13.0		3.31			61	2.5	125	100	87
	95.0	26.39	11.3	1450	3.90	5.5	Y132S-4	75	2.5			
	114.0	31.67	10.0		4.20			74	3.0			

性能参数表
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参数 Date 型号 Type	流量		扬程	转速	轴功率	电机 motor		效率	必需汽	泵口径		泵重
	Flow		Head	Spead	Shart power	功率 Power	型号 Type	Eff η	蚀余量 NPSHr	吸入 Suction dia	吐出 Discharge dia	Pump weight
	m ³ /h	L/s	m	r/min	kW	kW		%	m	mm	mm	kg
IS IR125-100-200B IY	96.0	26.67	36.8		14.8			65	4.5			
	160.0	44.44	32.0	2900	17.66	22	Y180M-2	79	4.5			
	192.0	53.33	28.5		19.12			78	5.0			
	48.0	13.33	9.3		2.03			60	2.5	125	100	87
	80.0	22.22	8.0	1450	2.36	4	Y112M-4	74	2.5			
	96.0	26.67	7.0		2.51			73	3.0			
IS IR125-100-250 IY	120.0	33.33	87.0		43.1			66	3.8			
	200.0	55.56	80.0	2900	55.9	75	Y280S-2	78	4.2			
	240.0	66.67	72.0		62.8			75	5.0			
	60.0	16.67	21.5		5.58			63	2.5	125	100	115
	100.0	27.78	20.0	1450	7.17	11	Y160M-4	76	2.5			
	120.0	33.33	18.5		7.86			77	3.0			
IS IR125-100-250A IY	108.0	30.0	70.5		31.9			65	3.8			
	180.0	50.0	64.8	2900	41.28	55	Y250M-2	77	4.2			
	216.0	60.0	58.3		46.37			74	5.0			
	54.0	15.0	17.4		4.13			62	2.5	125	100	115
	90.0	25.0	16.2	1450	5.30	7.5	Y132M-4	75	2.5			
	108.0	30.0	15.0		5.81			76	3.0			
IS IR125-100-250B IY	102.0	28.33	62.7		27.24			64	3.8			
	170.0	47.22	57.8	2900	35.23	45	Y225M-2	76	4.2	125	100	115
	204.0	56.67	52.0		39.63			73	5.0			
IS IR125-100-250B IY	51.0	14.17	15.5		3.54			61	2.5			
	85.0	23.61	14.5	1450	4.52	5.5	Y132S-4	74	2.5	125	100	115
	102.0	28.33	13.4		4.94			65	3.0			
IS IR125-100-250C IY	96.0	26.67	55.7		22.71			64	3.8			
	160.0	44.44	51.2	2900	29.37	37	Y200L2-2	76	4.2	125	100	115
	192.0	53.33	48.1		33.03			73	5.0			
IS IR125-100-315 IY	120.0	33.33	132.5		72.1			60	4.5			
	200.0	55.56	125.0	2900	90.8	110	Y315S-2	75	4.5			
	240.0	66.67	120.0		101.9			77	5.0			
	60.0	16.67	33.5		9.4			58	2.5	125	100	125
	100.0	27.78	32.0	1450	11.9	15	Y160L-4	73	2.5			
	120.0	33.33	30.5		13.5			74	3.0			
IS IR125-100-315A IY	108.0	30.0	107.2		53.47			59	4.0			
	180.0	50.0	101.3	2900	67.15	90	Y280M-2	74	4.5			
	216.0	60.0	97.2		75.28			76	5.0			
	54.0	15.0	27.1		7.0			57	2.5	125	100	125
	90.0	25.0	25.9	1450	8.82	11	Y160M-4	72	2.5			
	108.0	30.0	24.7		9.96			73	3.0			

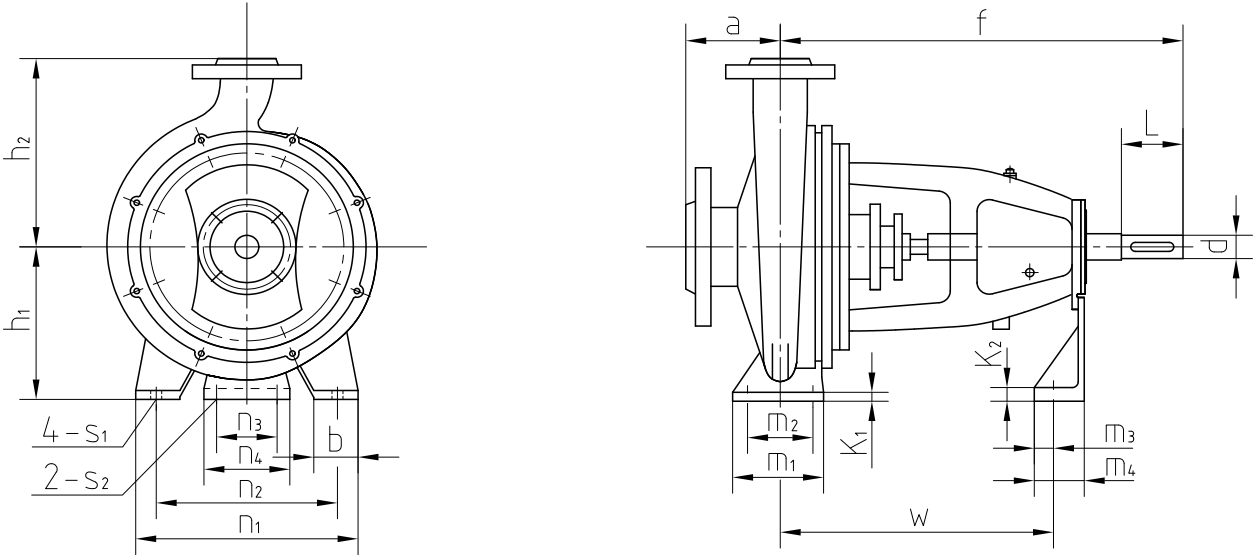
性能参数表
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参数 Date 型号 Type	流量		扬程	转速	轴功率	电机 motor		效率	必需汽	泵口径		泵重
	Flow		Head	Spead	Shart power	功率 Power	型号 Type	Eff η	蚀余量 NPSHr	吸入 Suction dia	吐出 Discharge dia	Pump weight
	m ³ /h	L/s	m	r/min	kW	kW		%	m	mm	mm	kg
IS	102.0	28.33	95.7		48.86			58	4.0			
IR125-100-315B	170.0	47.22	90.3	2900	57.30	75	Y280S-2	73	4.5	125	100	125
IY	204.0	56.67	86.7		64.27			75	5.0			
IS	60.0	16.67	52.0		16.1			53	2.5			
IR125-100-400	100.0	27.78	50.0	1450	21.0	30	Y200L-4	65	2.5	125	100	137
IY	120.0	33.33	48.5		23.6			67	3.0			
IS	54.0	15.0	42.1		11.94			52	2.5			
IR125-100-400A	90.0	25.0	40.5	1450	15.52	22	Y180L-4	64	2.5	125	100	137
IY	108.0	30.0	39.3		17.49			66	3.0			
IS	51.0	14.17	37.6		10.29			51	2.5			
IR125-100-400B	85.0	23.61	36.1	1450	13.29	18.5	Y180M-4	63	2.5	125	100	137
IY	102.0	28.33	35.0		14.96			65	3.0			
IS	48.0	13.33	33.3		8.56			51	2.5			
IR125-100-400C	80.0	22.22	32.0	1450	11.09	15	Y160L-4	63	2.5	125	100	137
IY	96.0	26.67	31.0		12.45			65	3.0			
IS	120.0	33.33	22.5		10.4			71	3.0			
IR150-125-250	200.0	55.56	20.0	1450	13.5	18.5	Y180M-4	81	3.0	150	125	136
IY	240.0	66.67	17.5		14.7			78	3.5			
IS	114	31.64	20.3		9.05			70	3.0			
IR150-125-250A	190	52.82	18.1	1450	11.71	15	Y160L-4	80	3.0	150	125	136
IY	228	63.36	15.8		12.76			77	3.5			
IS	102.0	28.33	16.3		6.46			70	3.0			
IR150-125-250B	170.0	47.22	14.5	1450	8.47	11	Y160M-4	79	3.0	150	125	136
IY	204.0	56.67	12.6		9.25			76	3.5			
IS	120.0	33.33	34.0		15.86			70	2.5			
IR150-125-315	200.0	55.56	32.0	1450	22.08	30	Y200L-4	79	2.5	150	125	158
IY	240.0	66.67	29.0		23.71			80	3.0			
IS	114	31.64	30.7		13.63			69	2.5			
IR150-125-315A	190	52.78	28.9	1450	19.17	22	Y180L-4	78	2.5	150	125	158
IY	228	63.36	26.2		20.59			79	3.0			
IS	105.6	29.31	26.3		11.11			68	2.5			
IR150-125-315B	176	48.93	24.8	1450	15.44	18.5	Y180M-4	77	2.5	150	125	158
IY	211.2	58.7	22.5		16.57			78	3.0			
IS	120	33.33	53.0		27.9			62	2.0			
IR150-125-400	200	55.56	50.0	1450	36.3	45	Y225M-4	75	2.8	150	125	187
IY	240	66.67	46.0		40.6			74	3.5			
IS	114	31.64	47.8		24.31			61	2.0			
IR150-125-400A	190	52.82	45.2	1450	31.54	37	Y225S-4	74	2.8	150	125	187
IY	228	63.36	41.5		35.29			73	3.5			

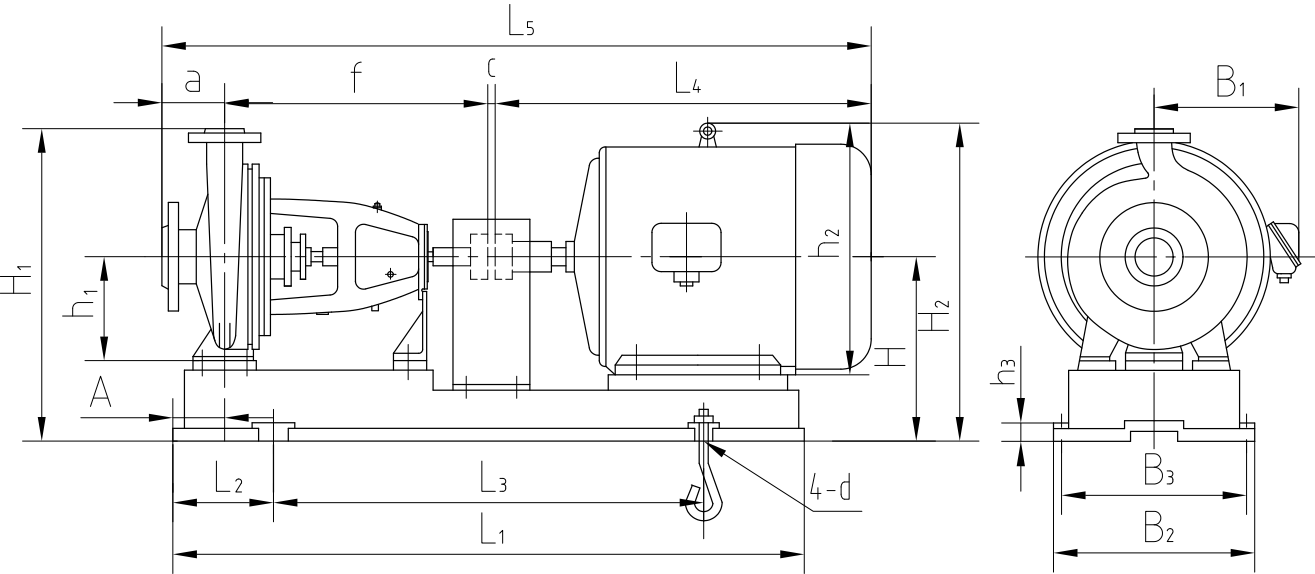
性能参数表
Sheet of Performance Date

参数 Date 型号 Type	流量		扬程	转速	轴功率	电机 motor		效率	必需汽	泵口径		泵重
	Flow		Head	Spead	Shart power	功率 Power	型号 Type	Eff η	蚀余量 NPSHr	吸入 Suction dia	吐出 Discharge dia	Pump weight
	m ³ /h	L/s	m	r/min	kW	kW		%	m	mm	mm	kg
IS	105.6	29.31	41.0		19.64		Y200L-4	60	2.0			187
IR150-125-400B	176	48.93	38.7	1450	25.42	30		73	2.8	150	125	
IY	211.2	58.67	35.6		28.44			72	3.5			
IS	240	66.67	21.5		19.8		Y225S-4	71	3.5			150
IR200-150-250	400	111.11	20.0	1450	26.6	37		82	4.3	200	150	
IY	460	127.78	17.5		27.4			80	5.0			
IS	228	63.37	19.4		17.2		Y200L-4	70	3.5			150
IR200-150-250A	380	105.55	18.1	1450	23.1	30		81	4.3	200	150	
IY	437	121.41	15.8		23.8			79	5.0			
IS	211.2	58.67	16.6		13.8		Y180L-4	69	3.5			150
IR200-150-250B	352	97.77	15.5	1450	18.58	22		80	4.3	200	150	
IY	404.8	112.48	13.6		19.2			78	5.0			
IS	240	66.67	37		34.6		Y250M-4	70	3.0			168
IR200-150-315	400	111.11	32	1450	42.5	55		82	3.5	200	150	
IY	460	127.78	28.5		44.6			80	4.0			
IS	228	63.37	33.4		30.1		225M-4	69	3.0			168
IR200-150-315A	380	105.55	28.9	1450	36.89	45		81	3.5	200	150	
IY	437	121.41	25.7		38.72			79	4.0			
IS	211.2	58.67	28.7		24.27		Y225S-4	68	3.0			168
IR200-150-315B	352	97.77	24.8	1450	29.68	37		80	3.5	200	150	
IY	404.8	112.48	22.1		31.17			78	4.0			
IS	204	56.70	26.7		21.88		Y200L-4	68	3.0			168
IR200-150-315C	340	94.44	23.1	1450	26.57	30		80	3.5	200	150	
IY	391	108.63	20.6		28.09			77	4.0			
IS	240	66.67	55		48.6		Y280M-4	74	3.0			186
IR200-150-400	400	111.11	50	1450	67.2	90		81	3.8	200	150	
IY	460	127.78	45		74.2			76	4.5			
IS	228	63.37	49.6		42.24		Y280S-4	73	3.0			186
IR200-150-400A	380	105.55	45.1	1450	58.34	75		80	3.8	200	150	
IY	437	121.41	40.6		64.47			75	4.5			
IS	211.2	58.67	42.6		34.04		Y250M-4	72	3.0			186
IR200-150-400B	352	97.77	38.7	1450	48.95	55		79	3.8	200	150	
IY	404.8	112.48	34.9		51.94			74	4.5			
IS	192	53.36	35.2		25.57		Y225M-4	72	3.0			186
IR200-150-400C	320	88.88	32.0	1450	35.28	45		79	3.8	200	150	
IY	368	102.24	28.8		39.02			74	4.5			

外形尺寸图
Overall Dimension Drawing



外形尺寸安装图
Overall installing dimension Drawing



外形尺寸表
Overall Dimension Sheet

型 号 Pump Type (IS、IR、IY)	泵 Pump				泵 脚 座 Foundation												w	螺栓孔 Bolt hole		轴 端 Shaft end				
	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				
50-32-125	80	385	112	140	50	100	70	19	60	190	140	110	145	14	10	285	Φ 14.5	Φ 14.5	24	50				
50-32-160			132	160						240	190			16										
50-32-200			160	180						240	190			16					32	80				
50-32-250	100	500	180	225	65	125	95	25	65	320	250	20	14	370										
65-50-125	80	385	112	140	50	100	70	19	60	210	160	110	145	14	10	285	Φ 14.5	Φ 14.5	24	50				
65-50-160			132	160						240	190			16										
65-40-200	100	500	160	180	65	125	95	25	65	265	212	110	145	20	14	370	Φ 14.5	Φ 14.5	32	80				
65-40-250			180	225						320	250													
65-40-315			125	200						250	345								280					
80-65-125	100	385	132	160	50	100	70	19	60	240	190	110	145	16	10	285	Φ 14.5	Φ 14.5	24	50				
80-65-160			160	180						265	212													
80-50-200			200																					
80-50-250	125	500	180	225	65	125	95	25	65	320	250	110	145	20	14	370	Φ 14.5	Φ 14.5	32	80				
80-50-315			225	280						345	280													
100-80-125	100	385	160	180	65	125	95	19	60	280	212	110	145	16	10	285	Φ 14.5	Φ 14.5	24	50				
100-80-160		500	200	255				24		320	250			20	14	370			32	80				
100-65-200			180	255				25		360	280													
100-65-250	125	530	200	250	80	160	120	28	65	360	280	110	145	25	14	370	Φ 18.5	Φ 14.5	42	110				
100-65-315			225	280						400	315										400	315	25	
125-100-200	125	500	200	280	80	160	120	25	65	360	280	110	145	20	14	370	Φ 18.5	Φ 14.5	32	80				
125-100-250	140	530	225	315				28		400	315								25	14	370		42	110
125-100-315			250	315				28		400	315													
125-100-400					280	355	100	200	150			500	400						Φ 24					
150-125-250	140	530	250	355	80	160	120	28	65	400	315	110	145	25	14	370	Φ 18.5	Φ 14.5	42	110				
150-125-315			280		100	200	150			500	400						Φ 24							
150-125-400			315	400																				
200-150-250	160	530	280	370	100	200	150	28	65	500	400	110	145	25	14	370	Φ 24	Φ 14.5	42	110				
200-150-315		670	315	400				38	80	550	450	140	200	30	30	500		Φ 18.5	48					

外形安装尺寸表
Overall installing dimension sheet

泵型号 Pump type (IS、IR、IY)	配套电机 motor		A	L ₁	L ₂	L ₃	L ₄	L ₅	a	f	c	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	4-d
	型号 type	功率 (KW) power																			
50-32-125	Y90L-2	2.2	80	790	170	490	335	802	80	385	2	155	390	350	112	190	25	187	327	287	φ18.5
	Y801-4	0.55	80	750	150	450	285	752	80	385	2	150	360	320	112	170	25	187	327	277	φ18.5
50-32-125A	Y90S-2	1.5	80	750	150	450	310	777	80	385	2	155	360	320	112	190	25	187	327	287	φ18.5
50-32-125B	Y802-2	1.1	80	750	150	450	285	752	80	385	2	150	360	320	112	170	25	187	327	277	φ18.5
50-32-160	Y100L-2	3	80	790	170	490	380	847	80	385	2	180	390	350	132	245	25	207	367	352	φ18.5
	Y801-4	0.55	80	750	150	450	285	752	80	385	2	150	360	320	132	170	25	207	367	297	φ18.5
50-32-160A	Y90L-2	2.2	80	790	170	490	335	802	80	385	2	155	390	350	132	190	25	207	367	307	φ18.5
50-32-160B	Y90S-2	1.5	80	750	150	450	310	777	80	385	2	155	360	320	132	190	25	207	367	307	φ18.5
50-32-200	Y132S1-2	5.5	80	950	190	570	475	942	80	385	2	210	450	400	160	315	30	235	415	418	φ24
	Y802-4	0.75	80	750	150	450	285	752	80	385	2	150	360	320	160	170	25	235	415	325	φ18.5
50-32-200A	Y112M-2	4	80	830	170	490	400	867	80	385	2	190	390	350	160	265	25	235	415	388	φ18.5
50-32-200B	Y100L-2	3	80	830	170	490	380	847	80	385	2	180	390	350	160	245	25	235	415	380	φ18.5
50-32-250	Y160M1-2	11	95	1190	225	740	600	1202	100	500	2	255	540	490	180	385	30	290	515	515	φ24
	Y90L-4	1.5	95	910	190	570	335	937	100	500	2	155	450	400	180	190	30	255	480	355	φ24
50-32-250A	Y132S2-2	7.5	95	1050	210	630	475	1077	100	500	2	210	490	440	180	315	30	270	495	453	φ24
	Y90S-4	1.1	95	910	190	570	310	912	100	500	2	155	450	400	180	190	30	255	480	355	φ24
65-50-125	Y100L-2	3	80	830	170	490	380	847	80	385	2	180	390	350	112	245	25	187	327	332	φ18.5

外形安装尺寸表
Overall installing dimension sheet

泵型号 Pump type (IS、IR、IY)	配套电机 motor		A	L ₁	L ₂	L ₃	L ₄	L ₅	a	f	c	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	4-d
	型号 type	功率 (KW) power																			
	Y801-4	0.55	80	750	150	450	285	752	80	385	2	150	360	320	112	170	25	187	327	277	φ18.5
65-50-125A	Y90L-2	2.2	80	790	170	490	335	802	80	385	2	155	390	350	112	190	25	187	327	287	φ18.5
65-50-125B	Y90S-2	1.5	80	750	150	450	310	777	80	385	2	155	360	320	112	190	25	187	327	287	φ18.5
65-50-160	Y132S1-2	5.5	80	910	190	570	475	942	80	385	2	210	450	400	132	315	30	207	367	390	φ24
	Y802-4	0.75	80	750	150	450	285	752	80	385	2	150	360	320	132	170	25	207	367	297	φ18.5
65-50-160A	Y112M-2	4	80	830	170	490	400	867	80	385	2	190	390	350	132	265	25	207	367	360	φ18.5
65-50-160B	Y100L-2	3	80	830	170	490	380	847	80	385	2	180	390	350	132	245	25	207	367	352	φ18.5
65-40-200	Y132S2-2	7.5	80	950	190	570	475	962	100	385	2	210	450	400	160	315	30	235	415	418	φ24
	Y90S-4	1.1	80	790	170	490	310	797	100	385	2	155	390	350	160	190	25	235	415	335	φ18.5
65-40-200A	Y112M-2	4	80	830	170	490	400	887	100	385	2	190	390	350	160	265	25	235	415	388	φ18.5
	Y802-4	0.75	80	790	170	490	285	772	100	385	2	150	390	350	160	170	25	235	415	325	φ18.5
65-40-250	Y160M2-2	15	95	1190	225	740	600	1182	100	500	2	255	540	490	180	385	30	290	515	515	φ24
	Y100L-4	2.2	95	950	190	570	380	982	100	500	2	180	450	400	180	245	30	255	480	400	φ24
65-40-250A	Y132S2-2	7.5	95	1050	210	630	475	1057	100	500	2	210	490	440	180	315	30	270	495	453	φ24
	Y90L-4	1.5	95	910	190	570	335	937	100	500	2	155	450	400	180	190	30	255	480	355	φ24
65-40-315	Y200L1-2	30	95	1290	250	830	775	1402	125	500	2	310	610	550	200	475	40	330	580	605	φ28
	Y112M-4	4	95	910	210	630	400	1027	125	500	2	190	490	440	200	265	30	290	540	443	φ24
65-40-315A	Y180M-2	22	95	1190	225	740	670	1297	125	500	2	285	540	490	200	430	30	310	560	560	φ24

外形安装尺寸表
Overall installing dimension sheet

泵型号 Pump type (IS、IR、IY)	配套电机 motor		A	L ₁	L ₂	L ₃	L ₄	L ₅	a	f	c	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	4-d
	型号 type	功率 (KW) power																			
	Y100L-4	3	95	910	210	630	380	1007	125	500	2	180	490	440	200	245	30	290	540	435	φ24
65-40-315B	Y160L-2	18.5	95	1190	225	740	645	1272	125	500	2	255	540	490	200	385	30	310	560	535	φ24
80-65-125	Y132S-2	5.5	80	910	190	570	475	962	100	385	2	210	450	400	132	315	30	207	367	390	φ24
	Y802-4	0.75	80	750	150	450	285	772	100	385	2	150	360	320	132	170	25	207	367	297	φ18.5
80-65-125A	Y112M-2	4	80	830	170	490	400	887	100	385	2	190	390	350	132	265	25	207	367	360	φ18.5
80-65-125B	Y100L-2	3	80	830	170	490	380	867	100	385	2	180	390	350	132	245	25	207	367	352	φ18.5
80-65-160	Y132S2-2	7.5	80	950	190	570	475	962	100	385	2	210	450	400	160	315	30	235	415	418	φ24
	Y90L-4	1.5	80	790	170	490	335	822	100	385	2	155	390	350	160	190	25	235	415	334	φ18.5
80-65-160A	Y112M-2	4	80	830	170	490	400	887	100	385	2	190	390	350	160	265	25	235	415	388	φ18.5
	Y90S-4	1.1	80	790	170	490	310	797	100	385	2	155	390	350	160	190	25	235	415	335	φ18.5
80-50-200	Y160M2-2	15	80	1050	210	630	600	1087	100	385	2	255	490	440	160	385	30	250	450	475	φ24
	Y100L-4	2.2	80	830	170	490	380	867	100	385	2	180	390	350	160	245	25	235	435	380	φ18.5
80-50-200A	Y132S2-2	7.5	80	950	190	570	475	962	100	385	2	210	450	400	160	315	30	235	435	418	φ24
80-50-200A	Y90L-4	1.5	80	790	170	490	335	822	100	385	2	155	390	350	160	190	25	235	435	335	φ18.5
80-50-200B	Y132S2-2	7.5	80	950	190	570	475	962	100	385	2	210	450	400	160	315	30	235	435	418	φ24
	Y90S-4	1.1	80	790	170	490	310	797	100	385	2	155	390	350	160	190	25	235	435	335	φ18.5
80-50-250	Y180M-2	22	95	1190	225	740	670	1297	125	500	2	285	540	490	180	430	30	290	515	540	φ24

外形安装尺寸表
Overall installing dimension sheet

泵型号 Pump type (IS、IR、IY)	配套电机 motor		A	L ₁	L ₂	L ₃	L ₄	L ₅	a	f	c	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	4-d
	型号 type	功率 (KW) power																			
	Y100L-4	3	95	950	190	570	380	1007	125	500	2	180	450	400	180	245	30	255	480	400	φ24
80-50-250A	Y160L-2	18.5	95	1190	225	740	645	1272	125	500	2	255	540	490	180	385	30	290	515	515	φ24
80-50-250B	Y160M2-2	15	95	1190	225	740	600	1227	125	500	2	255	540	490	180	385	30	290	515	515	φ24
80-50-315	Y200L2-2	37	95	1290	250	830	775	1402	125	500	2	310	610	550	225	475	40	335	635	630	φ28
	Y132S-4	5.5	95	1050	210	630	475	1102	125	500	2	210	490	440	225	315	30	315	595	498	φ24
80-50-315A	Y180M-2	22	95	1190	225	740	670	1297	125	500	2	285	540	490	225	430	30	335	615	585	φ24
	Y112M-4	4	95	970	210	630	400	1027	125	500	2	190	490	440	225	265	30	315	595	468	φ24
100-80-125	Y160M1-2	11	95	1050	210	630	600	1087	100	385	2	255	490	440	160	385	30	250	430	475	φ24
	Y90L-4	1.5	95	790	170	490	335	822	100	385	2	155	390	350	160	190	25	235	415	335	φ18.5
100-80-125A	Y132S2-2	7.5	95	950	190	570	475	962	100	385	2	210	450	400	160	315	30	235	415	418	φ24
	Y90S-4	1.1	95	790	170	490	310	797	100	385	2	155	390	350	160	190	25	235	415	335	φ18.5
100-80-125B	Y132S-2	5.5	95	950	190	570	475	962	100	385	2	210	450	400	160	315	30	235	415	335	φ18.5
100-80-125B	Y802-4	0.75	95	790	170	490	285	772	100	385	2	150	390	350	160	170	25	235	415	325	φ18.5
100-80-160	Y160M2-2	15	95	1100	225	740	600	1202	100	500	2	255	540	490	160	385	30	270	470	495	φ24
	Y100L-4	2.2	95	950	190	570	380	982	100	500	2	180	450	400	160	245	30	235	435	380	φ24
100-80-160A	Y160M1-2	11	95	1190	225	740	600	1202	100	500	2	255	540	490	160	385	30	270	470	495	φ24
	Y90L-4	1.5	95	910	190	570	335	937	100	500	2	155	450	400	160	190	30	235	435	335	φ24
100-65-200	Y180M-2	22	95	1190	225	740	670	1272	100	500	2	285	540	490	180	430	30	290	515	540	φ24

外形安装尺寸表
Overall installing dimension sheet

泵型号 Pump type (IS、IR、IY)	配套电机 motor		A	L ₁	L ₂	L ₃	L ₄	L ₅	a	f	c	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	4-d
	型号 type	功率 (KW) power																			
	Y112M-4	4	95	970	210	630	400	1002	100	500	2	190	490	440	180	265	30	270	495	423	φ24
100-65-200A	Y160L-2	18.5	95	1190	225	740	645	1247	100	500	2	255	540	490	180	385	30	290	515	515	φ24
	Y100L2-4	3	95	970	210	630	380	982	100	500	2	180	490	440	180	245	30	270	495	415	φ24
100-65-200B	Y160M2-2	15	95	1190	225	740	600	1202	100	500	2	255	540	490	180	385	30	290	515	515	φ24
100-65-250	Y200L2-2	37	110	1290	250	830	775	1402	125	500	2	310	610	550	200	475	40	330	580	605	φ28
	Y132S-4	5.5	110	1050	210	630	475	1102	125	500	2	210	490	440	200	315	30	290	540	473	φ24
100-65-250A	Y180M-2	22	110	1190	225	740	670	1297	125	500	2	285	540	490	200	430	30	310	560	560	φ24
	Y112M-4	4	110	970	210	630	400	1027	125	500	2	190	490	440	200	265	30	290	540	443	φ24
100-65-250B	Y160L-2	18.5	110	1190	225	740	645	1272	125	500	2	265	540	490	200	385	30	310	560	535	φ24
	Y100L2-4	3	110	970	210	630	380	1007	125	500	2	180	490	440	200	245	30	290	540	435	φ24
100-65-315	Y280S-2	75	110	1590	320	1070	1000	1657	125	530	2	410	730	670	225	640	40	425	705	785	φ28
	Y160M-4	11	110	1190	225	740	600	1257	125	530	2	255	540	490	225	385	30	335	615	560	φ24
100-65-315A	Y250M-2	55	110	1450	290	870	930	1587	125	530	2	385	660	600	225	575	40	425	705	750	φ28
	Y132M-4	7.5	110	1100	225	740	515	1172	125	530	2	210	540	490	225	315	30	335	615	518	φ24
100-65-315B	Y225M-2	45	110	1450	290	870	815	1472	125	530	2	345	660	600	225	530	40	375	655	680	φ28
	Y132S-4	5.5	110	1190	225	740	475	1132	125	530	2	210	540	490	225	315	30	335	615	518	φ24
100-65-315C	Y200L2-2	37	110	1290	250	830	775	1432	125	530	2	310	610	550	225	475	40	355	635	630	φ28

外形安装尺寸表
Overall installing dimension sheet

泵型号 Pump type (IS、IR、IY)	配套电机 motor		A	L ₁	L ₂	L ₃	L ₄	L ₅	a	f	c	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	4-d
	型号 type	功率 (KW) power																			
125-100-200	Y225M-2	45	110	1290	250	830	815	1442	125	500	2	345	610	550	200	530	40	360	640	665	φ28
	Y132M-4	7.5	110	1050	210	630	515	1142	125	500	2	210	490	440	200	315	30	290	570	473	φ24
125-100-200A	Y200L2-2	37	110	1290	250	830	775	1402	125	500	2	310	610	550	200	475	40	330	610	605	φ28
	Y132S-4	5.5	110	1050	210	630	475	1102	125	500	2	210	490	440	200	315	30	290	570	473	φ24
125-100-200B	Y180M-2	22	110	1190	225	740	670	1297	125	500	2	285	540	490	200	430	30	310	590	560	φ24
125-100-200B	Y112M-4	4	110	970	210	630	400	1027	125	500	2	190	490	440	200	265	30	290	570	443	φ24
125-100-250	Y280S-2	75	110	1590	320	1070	1000	1672	140	530	2	410	730	670	225	640	40	425	705	785	Φ28
	Y160M-4	11	110	1190	225	740	600	1272	140	530	2	255	540	490	225	385	30	335	615	560	φ28
125-100-250A	Y250M-2	55	110	1450	290	870	930	1602	140	530	2	385	660	600	225	575	40	425	705	750	φ28
125-100-250A	Y132M-4	7.5	110	1100	225	740	515	1187	140	530	2	210	540	490	225	315	30	335	615	518	φ28
125-100-250B	Y225M-2	45	110	1450	290	870	815	1487	140	530	2	345	660	600	225	530	40	375	655	680	φ28
	Y132S-4	5.5	110	1100	225	740	475	1147	140	530	2	210	540	490	225	315	30	335	615	518	φ28
125-100-250C	Y200L2-2	37	110	1290	250	830	775	1447	140	530	2	310	610	550	225	475	40	355	635	630	φ28
125-100-315	Y315S-2	110	110	1630	320	1070	1190	1863	140	530	3	460	800	740	250	760	40	450	765	895	φ28
	Y160L-4	15	110	1240	250	830	645	1317	140	530	2	225	610	550	250	385	40	380	695	605	φ28
125-100-315A	Y280M-2	90	110	1590	320	1070	1050	1723	140	530	3	410	730	670	250	640	40	450	765	810	φ28
	Y160M-4	11	110	1190	225	740	600	1272	140	530	2	225	540	490	250	385	30	360	675	585	φ24

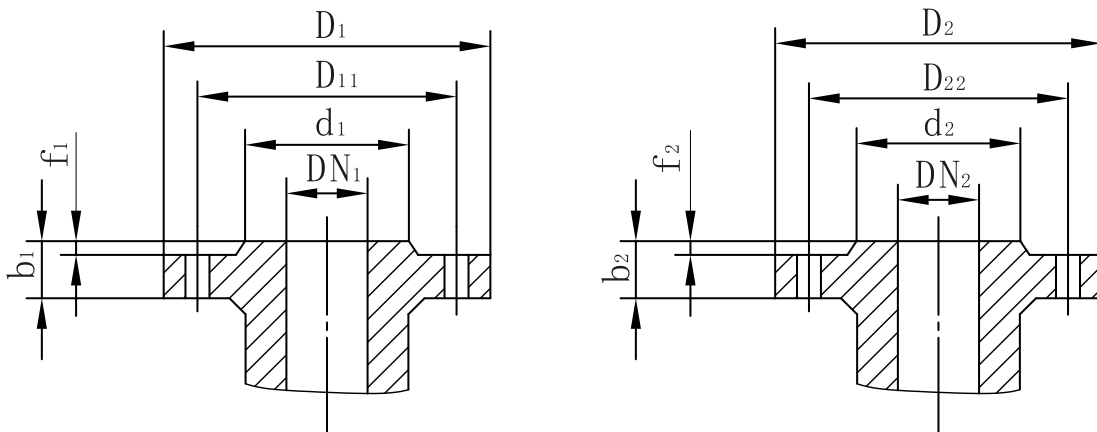
外形安装尺寸表
Overall installing dimension sheet

泵型号 Pump type (IS、IR、IY)	配套电机 motor		A	L ₁	L ₂	L ₃	L ₄	L ₅	a	f	c	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	4-d
	型号 type	功率 (KW) power																			
125-100-315B	Y280S-2	75	110	1590	320	1070	1000	1673	140	530	3	410	730	670	250	640	40	450	765	810	φ28
125-100-400	Y200L-4	30	130	1320	290	870	775	1447	140	530	2	310	660	600	280	475	40	430	785	705	φ28
125-100-400A	Y180L-4	22	130	1320	290	870	710	1382	140	530	2	285	660	600	280	430	40	430	785	680	φ28
125-100-400B	Y180M-4	18.5	130	1320	290	870	670	1342	140	530	2	285	660	600	280	430	40	430	785	680	φ28
125-100-400C	Y160L-4	15	130	1320	290	870	645	1317	140	530	2	255	660	600	280	385	40	430	785	655	φ28
150-125-250	Y180M-4	18.5	110	1240	250	830	670	1342	140	530	2	285	610	550	250	430	40	380	735	630	φ28
150-125-250A	Y160L-4	15	110	1240	250	830	645	1317	140	530	2	255	610	550	250	385	40	380	735	605	φ28
150-125-250B	Y160M-4	11	110	1190	225	740	600	1272	140	530	2	255	540	490	250	385	30	360	715	585	φ24
150-125-315	Y200L-4	30	130	1320	290	870	775	1447	140	530	2	310	660	600	280	475	40	430	785	705	φ28
150-125-315A	Y180L-4	22	130	1320	290	870	710	1382	140	530	2	285	660	600	280	430	40	430	785	680	φ28
150-125-315B	Y180M-4	18.5	130	1320	290	870	670	1342	140	530	2	285	660	600	280	430	40	430	785	680	φ28
150-125-400	Y225M-4	45	130	1450	290	870	845	1518	140	530	3	345	660	600	315	530	40	465	865	770	φ28
150-125-400A	Y225S-4	37	130	1450	290	870	820	1493	140	530	3	345	660	600	315	530	40	465	865	770	φ28
150-125-400B	Y200L-4	30	130	1320	290	870	775	1447	140	530	2	310	660	600	315	475	40	465	865	740	φ28
200-150-250	Y225S-4	37	130	1450	290	870	820	1492	140	530	2	345	660	600	280	530	40	430	805	735	φ28
200-150-250A	Y200L-4	30	130	1320	290	870	775	1467	160	530	2	310	660	600	280	475	40	430	805	705	φ28
200-150-250B	Y180L-4	22	130	1320	290	870	710	1402	160	530	2	285	660	600	280	430	40	430	805	680	φ28
200-150-315	Y250M-4	55	130	1590	320	1070	930	1763	160	670	3	385	730	670	315	575	40	465	865	790	φ28

外形安装尺寸表
Overall installing dimension sheet

泵型号 Pump type (IS、IR、IY)	配套电机 motor		A	L ₁	L ₂	L ₃	L ₄	L ₅	a	f	c	B ₁	B ₂	B ₃	h ₁	h ₂	h ₃	H	H ₁	H ₂	4-d
	型号 type	功率 (KW) power																			
200-150-315A	Y225M-4	45	130	1590	320	1070	845	1677	160	670	3	345	730	670	315	530	40	465	865	770	φ28
200-150-315B	Y225S-4	37	130	1590	320	1070	820	1652	160	670	3	345	730	670	315	530	40	465	865	770	φ28
200-150-315C	Y200L-4	30	130	1590	320	1070	775	1607	160	670	2	310	730	670	315	475	40	465	865	740	φ28
200-150-400	Y280M-4	90	130	1710	320	1070	1050	1883	160	670	3	410	730	670	315	640	40	465	915	825	φ28
200-150-400A	Y280S-4	75	130	1710	320	1070	1000	1883	160	670	3	410	730	670	315	640	40	465	915	825	φ28
200-150-400B	Y250M-4	55	130	1590	320	1070	930	1763	160	670	3	385	730	670	315	575	40	465	915	790	φ28
200-150-400C	Y225M-4	45	130	1590	320	1070	845	1677	160	670	3	345	730	670	315	530	40	465	915	770	φ28

Flange Dimension Drawing



Flange Dimension Sheet

泵型号 Pump type		吸入口法兰尺寸(mm) suction flange dimension							排出口法兰尺寸(mm) discharge flange dimension						
		DN ₁	D ₁	D ₁₁	d ₁	b ₁	f ₁	n ₁ -d ₀₁	DN ₂	D ₂	D ₁₂	d ₂	b ₂	f ₂	n ₂ -d ₀₂
IS IR IY	50-32-125	50	165	125	102	20	3	4-φ17.5	32	140	100	78	18	2	4-φ17.5
	50-32-160														
	50-32-200														
	50-32-250														
	65-50-125	65	185	145	122	20	3	4-φ17.5	50	165	125	102	20	3	4-φ17.5
	65-50-160														
	65-40-200														
	65-40-250														
	65-40-315														
	80-65-125	80	200	160	133	22	3	8-φ17.5	65	185	145	122	20	3	4-φ17.5
	80-65-160														
	80-50-200														
	80-50-250														
	80-50-315														
	100-80-125	100	220	180	158	24	3	8-φ17.5	80	200	160	133	22	3	8-φ17.5
	100-80-160														
	100-65-200														
	100-65-250														
	100-65-315														
	125-100-200	125	250	210	184	26	3	8-φ17.5	65	185	145	122	20	3	4-φ17.5
125-100-250															
125-100-315															
125-100-400															
150-125-250	150	285	240	212	26	3	8-φ22	100	220	180	158	24	3	8-φ17.5	
150-125-315															
150-125-400															
200-150-250	200	340	295	268	30	3	12-φ22	125	250	210	184	26	3	8-φ17.5	
200-150-315								150	285	240	212	26	3	8-φ22	

200-150-400														
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装配与拆卸

- 泵在装配前，应当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。
- 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。
 - 2、预先可将 O 型密封圈、纸垫、毛毡等分别放置在相应的零件上。
 - 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。
 - 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。
 - 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。
- 最后将上述组件装到泵体内，并拧紧泵体、泵盖上的连接螺栓。
- 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 型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的反向进行。

Assembly and Disassembly

- Before assembly, the all parts should be checked, ensure these parts in good condition, and wipe up cleanly, then assembly.
- 1. Tighten the bolts, pins in relative parts respectively.
 - 2. Place the “O” ring, paper gasket, gaskets on the relative parts.
 - 3. Place wearing, packing, packing ring, packing cover on the pump cover orderly.
 - 4. Mount the roll bearing in shaft, then assemble them in cantilever support, cover the pump cover, tighten the roll bearing, mount blocking water ring on the shaft.
 - 5. Mount the sleeve on the shaft, assemble the pump cover on the cantilever then assemble impeller, gasket, impeller nut etc. and tighten them. Last assemble these parts in pump casing, and tighten bolts on pump casing and pump cover.
- In the state process, the small parts, for example, key, blocking oil disc; blocking water ring and “O” ring are easily lose or assemble wrong in orderly.
- So these parts assemble should be cared specially.
- Disassembly is according to the opposite order of assembly.

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。
- 1、安装和校正
 - (1) 消除底座上的油腻污垢，把底座放在地基上；
 - (2) 用水平仪检查底座的水平度，允许楔铁找平；
 - (3) 用水泥浇灌底座和地脚螺栓孔眼。（底座的地脚螺栓一般留预留孔，采用二次灌浆埋设）
 - (4) 水泥干固后应检查底座和地脚螺栓是否松动，合适后拧紧地脚螺栓配套螺母，重新检查水平度。
 - (5) 清理底座的支撑平面、水泵脚及电机脚的平面，并把水泵和电机安装到底座上。
 - (6) 联轴器之间应保持一定的间隙，检查水泵轴与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，使其上、下、左、右的差别不得超过 0.1mm。

两联轴器端面间隙一周范围内最大和最小的间隙差别不得超过 0.3mm，名义间隙 2~3mm。

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。
- (2) 长距离输送时应取较大的管径。泵的管路应有自己的支架，不允许管路的重量加在泵上，避免把泵压坏。
- (3) 排出管路如装逆止阀，一般装在闸阀和泵出口之间。
- (4) 如采用 IR 型泵输送温度较高的液体时，须在泵盖上接冷却水和体外水封管。

installing

Pump installing quality is effected directly on pump running and life. So installing and adjusting must be strict.

1. Installing and adjusting

- (1). Clean the base, then place the base on foundation.
- (2). Check the base level degree, permit to level the base by wedge.
- (3). Pour concrete into foundation and foundation bolt hole. (Foundation usually have ready hole, adopt second pouring to fill in.)
- (4). After the grout is hard, check and ensure the base and foundation tight. Tighten foundation nuts, check the level degree again.
- (5). Clean the base support surface, pump foot and motor foot surface, install the pump and motor on the base.
- (6). Between coupling halves should have required clearance, check the center line of pump shaft and motor shaft, can adopt thin gaskets to adjust it.

Measure coupling outer circle, the tolerance is not more than 0.1mm.

Max. clearance and min clearance tolerance between the coupling is not more than 0.3mm. nominal clearance is 2-3mm.

2. Installing Description

- (1). Pump installing height, pipe length, diameter, and flow velocity should satisfied requirement. Reduce unnecessary loss.
- (2). If the delivering distance is long, the pipe should be adopted bigger pipe diameter, pipe should have separate support, pump do not allow bear pipe weight.
- (3). If the discharge pipe have check valve, the check valve should install between pump discharge and fate valve.
- (4). When IR pump deliver high temperature liquid, on the pump cover the cooling water and outer water pipe must be installed.

起动、停止和运行

1、起动

- (1) 应在机泵联接前确定电动机的旋转方向是否正确，泵的转动是否灵活。向悬架内加润滑油，油位应在油镜的中线位置。

- (2) 关闭吐出管路上的闸阀。
- (3) 向泵内灌满水，或用真空泵引水。
- (4) 接通电源。当泵达到正常转速后，再逐渐打开吐出管路上的闸阀，并调节到所需的工况。在吐出管上的闸阀关闭的情况下，泵连续工作的时间不能超过 3 分钟。

2、停止

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

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噪音等是否正常，如果发现异常情况，应及时处理。
- (2) 轴承温度最高不大于 75℃，并不得超过周围温度 35℃。
- (3) 填料正常漏水应该是少量均匀的，每分钟约 20～30 滴。机械密封内径 ≤ 50 mm，泄漏量 ≤ 3 ml/h，内径 > 50 mm，泄漏量 ≤ 5 ml/h。
- (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。

Starting, Running and Stopping

1 Starting

- (1) Before assemble couplings, check the motor rotating direction, pump rotating is flexible. Fill lubricating oil inside cantilever support, oil level should be about in the center line of oil glass.
- (2) Shut off fate valve on discharge pipe.
- (3) Pour water into pump, or adopt vacuum pump to prime water.
- (4) Switch on electric resource. When pump reach rate speed, slowly open the fate valve on discharge pipe. Adjust valve to reach required working condition. When the fate valve is shut off, the pump working time is not more than 3 minutes.

2 Stopping

- (1) Slowly shut off the fate valve in discharge pipe, shut off electric resource.
- (2) If the ambient temperature is low than 0℃, release water inside pump, to prevent the pump to frost crack.
- (3) If the pump will stop for long time, the pump should be disassembled and cleaned, coated oil, packed to protect well.

3 Running

- (1) During running, must watch the date of instrument, the bearing temperature, too high packing leaking water, and overheated, and pump vibrate heavily, unexpected noise etc. if the condition is not normal, treat them in time.
- (2) Max. bearing temperature is not more than 75℃, and not over 35℃ than ambient temperature.
- (3) Packing leakage flow is 20~30 drops per minute. When mechanical seal diameter is ≤ 50mm, the leakage flow is ≤ 3ml/h; when mechanical seal diameter is > 50mm, the leakage flow is ≤ 5ml/h.

(4) Bearing oil level should be in normal position, it can't be too high or too low, when oil level is too low, the oil must be added.

(5) If wearing ring and impeller is worn out heavily, renew these parts.

订货须知

- 1、根据使用条件,正确选择性能参数(流量、扬程、吸程等)。
- 2、零件材料可根据用户要求选配,订货时需特别提出。
- 3、如果实际要求参数与性能表不符,公司可根据要求设计制造。
- 4、本公司供货范围为泵、电机、公用底座、联轴器护罩及地脚螺栓,其它附件,如闸阀、止回阀、底阀、吐出锥管等,由用户选购。

Note

1. According to the user condition, select correct date (flow, head, NPSH etc.).
2. The material can supplied according to user requirment, it should be supplied in order specially.
3. If the required date have different with date in performance sheet, our company can design according to requirement.
- 4.The supply scope of the serial pump include pump, motor, .common base, coupling cover, foundation bolts, other accessories: fate valve, check valve, foot valve, discharge taper pipe etc. the user can select them to purchase.

故障、原因及其解决方法

故障	原因	解决方法
1. 水泵不吸水,压力表及真空表的指针剧烈跳动。	注入水泵的水不够。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,真空表显示高度真空。	底阀没有打开或已淤塞。吸水管阻力太大。吸水管太高。	校正或更换底阀。清洗或更换吸水管。降低吸水高度。
3. 看压力表水泵出水处有压力,但水泵仍不出水。	出水管阻力太大。旋转方向不对。叶轮淤塞。水泵转速不够。	检查或缩短出水管。改变电机转向。清洗叶轮。检查电机或电压。
4. 流量低于预计	水泵淤塞。密封环磨损过多。转速不足。	清洗泵及管路。更换密封环。增加泵转速。
5. 水泵消耗的功率过大	填料压得太紧。叶轮磨损。水泵供水量增加。水泵轴与电机轴不在同一条中心线上。	调松压盖。更换叶轮。调节闸阀,降低流量。对准泵与电机中心线。
6. 水泵在工作过程中出现反常声音,流量下降,直到不出水。	闸阀开得太大。吸水管阻力过大。吸水高度过大。在吸水处有空气渗入,所输送液体温度过高。	调解闸阀降低流量。检查吸水管和底阀。减少吸水高度。拧紧或堵塞漏气处。降低液体温度。
7.轴承过热	没有油或油太脏。水泵轴与电机轴不在同一条中心线上。	注油或换油。对准泵与电机轴中心线。

8. 水泵震动	泵轴与电机轴不在同一条中心线上。轴承磨损。转子擦壳。基础松动。	对准泵和电机轴中心线。更换轴承。解体检查整台泵。加固基础。
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Troubles & Causes & Remedies

Troubles	Causes	Remedies
1. Pump loses prime and manometer pointers beats heavily.	The water poured in the pump is not enough, leakage of air from the pipe or instrument joints.	Pour water into pump again, block the leakage place.
2. Pump loses prime but the vacuum gauge indicate a high vacuum degree	The foot valve is not open or it is plugged up. The resistance of suction is too high; the suction lift is too high	Correct or renew the foot valves, clean or renew the suction pipe. Make the suction head lower
3. No water is pumped out, but high pressure is shown on the outlet manometer	The direction of rotation is not right. The discharge resistance is too high. Impeller flow passage is clogged	Change the rotating direction; check or shorten the pipe; clean the impeller
4. Not enough flow	The impeller flow passage is clogged; the wearing ring is worn	Clean the impeller; renew the wearing ring
5. Pump requires excessive power	Packing is too tight; the impeller is worn, excessive amount of flow	Loosen the packing gland; renew impeller; increase discharge pipe friction, reduce the flow
6. Unexpected noise are heard and pump loses prime	Flow is too high; suction pipe friction is too big, suction height is too high; leakage of air found from the suction pipe; the temperature of liquid is too high	Increase discharge pipe friction to reduce flow; check suction pipe friction; check the foot valve; block the leaking place; make the temperature lower
7. The bearing is overheated	The grease is not enough; the shaft running off-center	Add the grease. Correct the pump and motor shaft coaxial degree
8. Pump vibrates heavily	The shaft running off-center	Correct the co-axial degree between pump and motor shaft