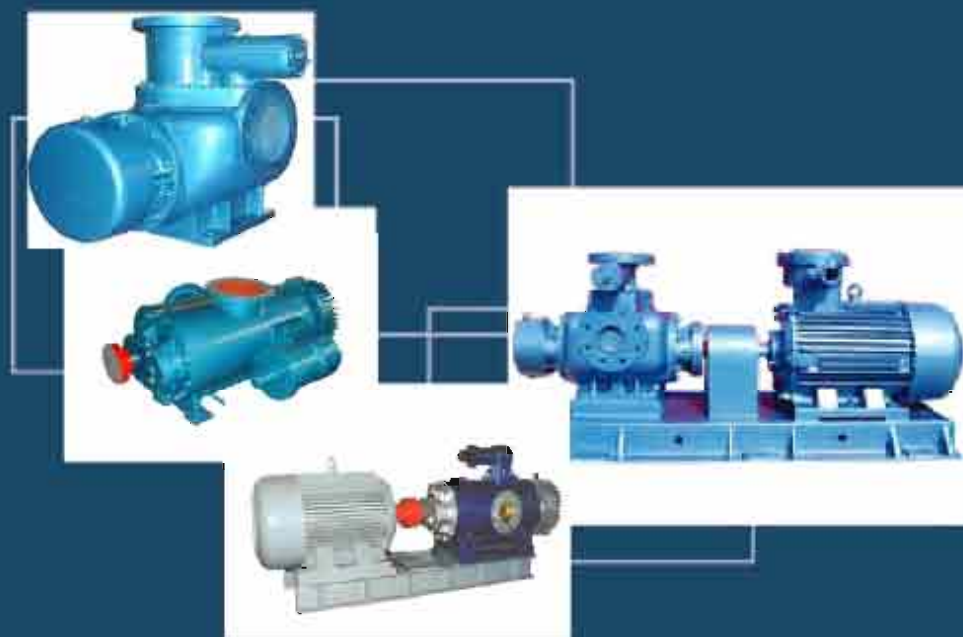




2W. W系列双螺杆泵

2W. W SERIES TWIN SCREW PUMP



泊头市华拓泵业有限公司

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企业简介

Brief Introduction

泊头市华拓泵业有限公司是研制产销各种工业用泵的专业厂家。公司位于素有“铸造之乡”和“汽车模具之乡”的河北省泊头市，毗邻京沪线，石黄线，104和106国道，交通非常便利。

本公司集科研、生产、销售、服务于一体，生产设备精良，设计水平先进，生产工艺及检测设备完善，已通过了ISO9001-2000国际质量管理体系认证和中国船级社认证。产品投放市场以来，以卓越的品质，优质的服务，诚信的经营风格，铸造了“华拓”品牌产品。

华拓泵业产品规格齐全，性能可靠，质优价廉，赢得了广大客户的信赖；主要产品有齿轮泵系列，螺杆泵系列，离心泵系列，转子泵系列，磁力泵系列等。产品广泛用于石油、化工、船舶、电力、食品、粮油、制药、印染、煤炭、建材、冶金及国防科研等各行业润滑用泵和流体的输送，增压。

华拓泵业面对日趋激烈的市场竞争和全球经济一体化的严峻考验，会始终坚持“质量第一、信誉第一、用户第一、服务第一”的企业宗旨，恪守“以科技创新，以质求存，持续改进，互利双赢”的企业理念，以人才构筑企业基石，以科技推动企业发展，一切围绕客户，创造顾客满意产品价值链。华拓泵业愿与各界朋友真诚合作，共谋发展，为用泵行业提供一流的产品和完美的流体输送解决方案。

华拓人竭诚欢迎各界朋友前来洽谈协作，共创辉煌！

2W.W双螺杆多相混输泵

2W.W TWIN SCREW PUMP

1、概述

我公司在深入研究国外先进技术的基础上，依照我国目前油气混输的实际要求研制开发了2W.WH型轴承外置式双吸双螺杆多相混输泵和2W.W系列双螺杆泵，并按照国家标准GB11035-89《船用电动双螺杆泵》的规定生产的。通过泵体中主、从动螺杆的相互啮合，以及螺杆和衬套孔的配合，在泵体中形成一个个密封空腔，在螺杆转动时，这些密封空腔连续向前移动，推动密封腔中的液体到出口排出，实现泵输送液体的目的。

其工作原理如图1:

Its working principle is as chart 1:

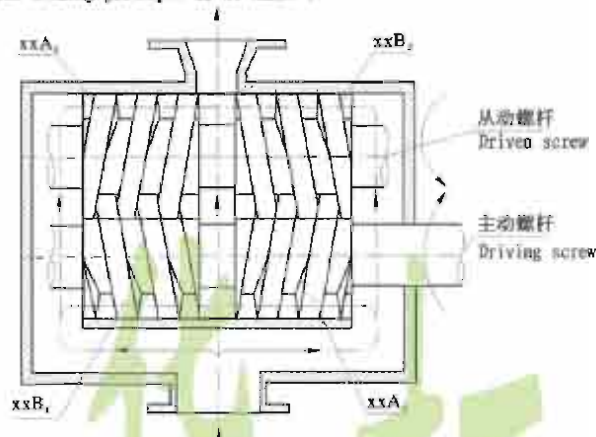


图1:2W.W型双螺杆泵工作原理图

Chart 1: 2W.W type twin screw pump working principle chart

2、结构特点

该泵采用双吸式结构，螺杆两端处于同一压力腔中，轴向力可以自行平衡。两端轴承采用外装式，单独采用润滑油（脂）润滑，因而不受输送介质的影响。两螺杆间用一对同步齿轮驱动，螺杆齿面间并不接触，而留有一微小间隙，介质中的杂质并不能对螺杆齿面产生直接的磨损（除冲刷外）。

除一些小排量泵外（2W.W4.0以下），一般在泵体上都带有内流式安全阀，当排放压力超过额定值时，有一定保护作用。

泵体上的进出口方向有二种，一为水平进，水平出；二为水平进，垂直向上出；用户可根据自己需要选择。

2W.W型双螺杆泵结构简图如图2:

3、双螺杆泵的优点

- 1、输送液体平衡、无脉动、无搅拌、振动小、噪音低。
- 2、有极强的自吸性能，多相混输时，含气率不高于80%，含沙量不高于500g/m³。
- 3、外置轴承结构，采用独立润滑，可以输送各种非润滑性介质。
- 4、采用同步齿轮驱动，二转子之间不接触，即使长时间空转也无妨。
- 5、泵体带有加热套，可以输送各种清液或含有固体小颗粒的低粘度或高粘度介质（一般颗粒直径小于0.12-0.2mm）。
- 6、正确的选用材料，甚至可以输送很多有腐蚀性的介质。
- 7、双吸式结构，转子上没有轴向力。
- 8、轴端采用机械密封或波纹管机械密封，具有寿命长、泄漏少、适用范围广的特点。

1. Brief Introduction

On the base of deeply researching overseas advanced technique, according to the present-day practical demands of gas-oil mixed transporting, 2W.WH-type outboard bearing double suction dual screw multiphase mixed transporting pump and 2W.W series double screw pump are researched and developed by our company, then we follow the regulations of the national standard GB11035-89 and produced it. Through engagement together between driving screw and driven screw and the match between screw and pump body hole, and then form many sealing empty cavities, when the screw is rotational, these sealing empty cavities move ahead continually, push the liquid in the sealing cavity to the exit and then discharged, so the purpose of transporting the liquid can be realized.

2. Structure characteristics

This kind of pump adopt double-suction structure, both ends of screw are in the same pressure cavity, axial force can be balanced automatically. The bearing of both ends adopt external installing, and being lubricated alone by using lubricate, so it won't be influenced by the medium. A couple of synchronous gears are used to drive the screws, so the screws surface can't touch at all, and there is a tiny clearance between the two screws. The impurity in the medium can not fray the screws surface directly (except scour).

Except some less discharge pumps (below the 2w.w 4.0), generally, internal safety valve will be installed on the pump body, when the discharge pressure is over the rated value, it will have certain protection function.

There are two entrance-exit directions, one is horizontally enter and horizontally exit; the other is horizontally enter and vertically upwards exit; the user can choose according to their own demands.

2W.W type twin screw pump structure brief chart is chart 2.

3. The advantage of the twin-screw pump

- (1)Transporting the liquid smoothly without any disturbing and pulsation, no impulse, with less vibration and low noise.
- (2)It has strong self-suction performance, when multiphase mixed transporting, the gas content can not over 80%, and the sand content can not over 500g/m³.
- (3)Outboard bearing structure which adopt independently lubricate, so all kinds of nonlubricate medium can be transported.
- (4)It adopts synchronous gear driving, between the two rotors there is no touch at all, even though idling for short term is no problem.
- (5)The pump body has heating jacket, so it can transport all kinds of clean or low viscosity or high viscosity medium which contain the particulate solids. (the diameter of the particulate is usually less than 0.12-0.2mm).
- (6)If selecting the material correctly, some corrosive medium can be transported.
- (7)Double-suction structure, and there is no axial force on the rotor.
- (8)The shaft ends adopt mechanical seal or corrugated pipe mechanical seal, it has the characteristic of long-life, less-leak, wide scope of application.

- | | |
|---------|----------------------|
| 1、齿轮箱盖 | 1. Cover of gear box |
| 2、齿轮 | 2. Gear |
| 3、滚动轴承 | 3. Rolling bearing |
| 4、后支架 | 4. Back bracket |
| 5、机械密封 | 5. Mechanical seal |
| 6、安全阀 | 6. Safety valve |
| 7、螺套A、B | 7. Screw set A B |
| 8、调节螺栓 | 8. Adjusting bolt |
| 9、衬套 | 9. Bush |
| 10、泵体 | 10. Pump casing |
| 11、前盖 | 11. Press cover |
| 12、滚动轴承 | 12. Rolling bearing |
| 13、前支架 | 13. Front bracket |
| 14、主动轴 | 14. Driving shaft |
| 15、从动轴 | 15. Driven shaft |

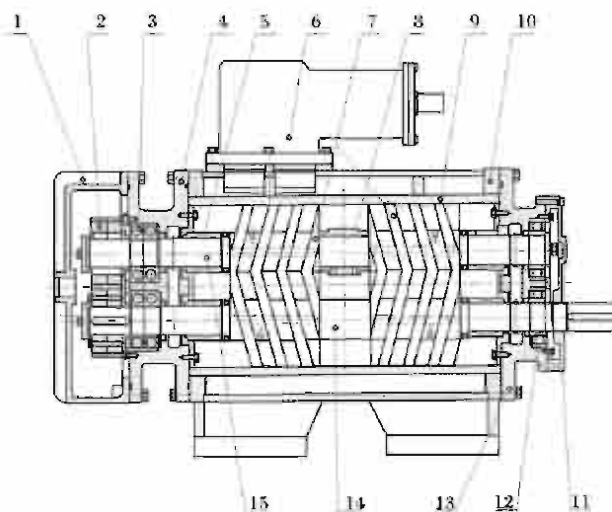


图2:2W.W型双螺杆泵结构简图

Chart 2: 2W.W type twin screw pump structure brief chart

4、性能范围

- 1、最高工作压力4.0MPa
- 2、流量范围1-1000m³/h
- 3、温度范围-20-120℃
- 4、介质粘度1-3000mm²/s,降低转速可达到10⁴mm²/s

介质粘度对双螺杆泵性能影响较大,泵的名义排量是在特定粘度条件下的排量,为保证泵能在较高效率下工作,在试验不充分时,建议按下列粘度条件选择转速:

介质粘度cSt	转速r/min
<400	1500
400-1200	1000
1200-3600	750

对于粘度更高的介质,所应选用的转速和驱动电机功率,请与制造厂联系。

5、应用举例

- 1、油田:用作油、气、水、微量细小固相颗粒等多相混输泵及原油输送泵。
- 2、造船业:用作船用装载泵,船底扫舱及污水处理,主机润滑油泵,燃料油泵。
- 3、石油化学工业:用作各种树脂、颜料、石蜡、油漆、油墨、乳胶、各种油品、原油、重油等装载和运输泵。
- 4、热电厂:用作重油、原油输送泵,主机润滑油泵。
- 5、食品工业:用作酒精、蜂蜜、糖浆、果汁、动植物油、牛奶、浆油输送泵。

4. Performance scope:

1. The highest pressure 4.0MPa
2. Capacity range 1-1000m³/h
3. Temperature range -20-120℃
4. The viscosity of the medium 1-3000mm²/s when lower the speed of the rotation it can be up to 10⁴mm²/s

The viscosity of the medium will largely influence the twin screw pump, the nominal discharge of the pump means the discharge under the certain viscosity condition, in order to ensure the pump to work on the high efficiency working condition, when the test is not enough, we suggest to select the speed of the rotation according to the following viscosity.

The viscosity of the medium cSt	Speed r/min
<400	1500
400-1200	1000
1200-3600	750

When the viscosity of the medium is higher, the customer should contact with the manufacturer for the speed of rotation and motor power.

5. Application example

- (1) Oil field: Used as the multiphase mixed transporting pump and crude oil transporting pump and the like which can transport oil, gas, water, tiny solid particulate.
- (2) Shipbuilding: Using as marine loading pump, ballast pump and sewage treatment pump, main machine lubricating pump and fuel oil pump.
- (3) Petrochemical industry: Using as loading and transporting pump which can transport all kinds of resin, pigment, paraffin wax, paint, tinting ink, emulsoid, all kinds of oil crude oil, heavy oil and the like.
- (4) Power plant: Using as heavy oil, crude oil transporting pump, main machine lubricating pump.
- (5) Food industry: Using as transporting pump which can transport alcohol, honey, syrup, juice, fixed oil, milk, slurry oil.

6、型号及代码说明



1、系列代码说明

- 2W.W: 卧式, 外置轴承式
2W.N: 卧式, 内置轴承式

2、规格代码说明

规格代码反映泵的尺寸大小, 工作能力范围, 代码大, 一般尺寸大, 压力也高。详见技术特性表。

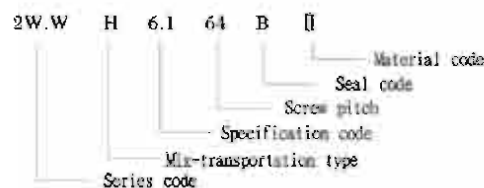
3、密封代码说明

- J: 一般机械密封
B: 金属波纹管机械密封

4、材料代码说明

- I: 一般工程结构钢为主。
II: 马氏体耐蚀钢为主。
III: 奥氏体耐蚀钢为主。

6 The illustration of type and code number



1 The illustration of the code series

- 2W.W horizontal outboard bearing
2W.N horizontal inboard bearing

2 The illustration of the specification code

Specification code express the size of pump and work capability scope, if the specification code is big, the size will be big and the pressure will be high, the details in the technical characteristics chart.

3 The illustration of the seal code

- J: General mechanical seal
B: Metal corrugated pipe mechanical seal

4 The illustration of the material code

- I: Mainly adopting the general engineering constructional steel.
II: Mainly adopting the martensitic corrosion resisting steel.
III: Mainly adopting the austenitic corrosion resisting steel

主要零部件材料选用表 MATERIAL OF THE MAIN PARTS

零件名称 Parts name	材料类别 Material kind	I	II	III
泵体 Pump casing		20	0Cr13	0Cr18Ni9
主、从动轴 Driving, driven shaft		45	3Cr13	1Cr18Ni9
螺套 Screws		38CrMoA1	3Cr13	1Cr18Ni9
衬套 Bush		QT600-3	ZG1Cr13	ZG0Cr18Ni9

如需要选用其它材料时, 请与制造厂协商。If some other material needed, please consult with the manufacturer.

7、选用泵应考虑的主要事项

- 介质的润滑性, 清洁度, 腐蚀性。
- 介质的粘度, 温度。
- 介质进、出口压力, 安装高度。
- 使用场合的防爆要求。
- 订货时请注明规格、型号、设计使用压力、转速、介质粘度、温度、电机防爆级别、介质名称。

如: 2W.W5.0-64-J-I, 1.0MPa, 980r/min.

介质粘度: 500cSt, 80℃, EXd II BT4

介质: 重质燃料油

希望选择时留有一定的富裕量, 以确保安全可靠。

7.The main point must be considered when choosing pump.

- Lubricity, degree of cleaning, corrosivity of the medium.
- Viscosity, temperature of the medium
- The medium pressure of the entrance, exit and the installing height.
- Explosive-proof demands of the service field.
- When ordering the product, please note the specification, type, design pressure, speed of rotation, medium viscosity, temperature, motor explosive-proof class, medium name.

Eg: 2W.W5.0-64-J-I, 1.0MPa, 980r/min.

Medium viscosity: 500cSt, 80℃, EXd II BT4

Medium: heavy fuel oil

When choosing, certain excess amount should be left, in order to make it safety and dependable.

8、2W.W型双螺杆泵技术特性表 2W.W TYPE TWIN SCREW PUMP TECHNICAL PERFORMANCE CHART

型号规格 Type specification	压力 Pressure MPa	1450r/min				950r/min				720r/min			
		30cSt	75cSt	150cSt	300cSt	450cSt	750cSt	1500cSt	2500cSt	30cSt	75cSt	150cSt	250cSt
2.5-15	0.6	2.4	2.2	2.2	3.1	2.2	1.8	1.5	1.3	2.2	2.2	1.3	2.2
	1.0	1.7	2.2	2.2	3.1	3	1.7	2.2	1.2	2.2	2.2	1.2	2.2
2.5-20	0.4	3.9	2.2	4.3	4.5	2.2	2.6	1.5	2.6	2.2	2.2	1.9	2.2
	0.6	3.4	2.2	4	4.3	2.2	2.5	2.2	2.5	2.2	2.2	1.8	2.2
3.1-22	0.6	7.7	3	3.2	4	8.3	4	4	4	3	5	4	3.7
	1.0	7	4	7.8	8	5.5	8.1	5.5	4.8	4	4.8	3.5	4
3.1-30	0.4	11.1	3	11.4	3	11.5	4	11.6	5.5	6.9	3	6.9	4
	0.6	10.6	4	11.1	5.5	11.3	5.5	11.4	5.5	6.7	4	6.7	5.5
3.4-24	1.6	-	-	7.4	11	9	11	9.8	11	5.7	7.5	4.3	7.5
	2.0	-	-	6.5	11	8.5	11	9.5	15	5.5	11	4.1	7.5
3.4-30	2.5	-	-	5.3	15	7.8	15	9.1	15	5.1	11	3.9	11
	1.0	8.3	7.5	11.4	7.5	12.4	11	12.6	11	7.6	7.5	5.6	7.5
3.4-40	1.25	6.9	11	10.7	11	12.1	11	12.6	11	7.4	7.5	5.5	11
	1.6	5	11	9.9	11	11.5	11	12.3	15	7.1	11	5.3	11
3.4-50	0.6	14.8	5.5	16.8	7.5	17.5	7.5	17.8	11	10.6	7.5	7.8	7.5
	1.0	12.2	11	15.5	11	16.6	11	17.2	11	10	7.5	7.4	7.5
4.0-26	0.4	21.8	5.5	23.2	7.5	23.7	7.5	24	11	14.3	5.5	10.5	7.5
	0.6	20.2	7.5	22.5	11	3.1	11	23.4	11	13.8	7.5	10.1	7.5
4.0-26	1.6			12.4	15	14.6	15	15.7	10.5	9.3	11	7	15
	2.0			11.2	15	13.6	10.5	15.3	22	9	15	6.8	15
2.5				9.6	18.5	13.1	22	14.8	22	8.6	15	6.6	15

型号规格 Type specification	压力 Pressure MPa	1450r/min						950r/min						720r/min					
		30cSt		75cSt		150cSt		300cSt		450cSt		750cSt		1500cSt		2500cSt			
		m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW		
4.0-32	1.0	13.9	11	18.2	15	19.6	15	26.3	15	13.2	11	12.2	15	9.1	11	9.1	11		
	1.25	12	15	17.3	15	19.1	15	20	18.5	11.9	11	11.9	15	8.9	11	8.9	15		
	1.6			16.1	18.5	18.4	18.5	19.5	22	11.5	15	11.5	15	8.6	11	8.6	15		
4.0-44	0.6	24.6	11	27.4	11	28.3	11	28.8	15	17.3	11	17.3	11	12.8	11	12.8	11		
	1.0	21.1	15	25.7	15	27.2	15	27.9	18.5	16.6	11	16.6	15	12.3	11	12.3	15		
4.0-64	0.4	37.2	11	39.1	11	39.6	11	40.1	15	24.1	11	24.2	11	17.8	11	17.8	11		
	0.6	35	11	38	15	38.9	15	39.4	18.5	23.5	11	23.7	11	17.3	11	17.3	11		
4.5-30	1.6	17.4	18.5	22.3	22	21	22	24.8	30	14.9	18.5	15	18.5	11.1	18.5	11.2	18.5		
	2.0	15.1	22	21.3	30	23.4	30	24.4	30	14.5	22	14.6	22	10.9	18.5	11	22		
	2.5	12.3	30	20	30	22.6	30	23.9	30	14.2	22	14.3	22	10.6	18.5	10.6	22		
4.5-40	1.0	29.1	18.5	32.4	18.5	33.5	22	34	22	29.5	18.5	29.6	18.5	15.3	15	15.3	18.5		
	1.25	27.5	18.5	31.6	22	33	30	33.7	30	29.2	18.5	29.3	22	15	18.5	15.1	22		
	1.6	25.3	30	30.6	30	32.3	30	33.9	30	19.9	22	20	22	14.7	18.5	14.8	22		
4.5-52	0.6	41.8	15	43.9	15	44.6	18.5	45	22	27.3	15	27.4	18.5	20.3	15	20.3	15		
	1.0	38.9	22	42.4	22	43.6	30	44.2	30	26.6	18.5	26.7	18.5	19.7	15	19.7	18.5		
4.5-72	0.4	57.3	15	58.8	15	59.3	18.5	59.6	22	36.1	15	36.2	15	26.9	15	26.9	18.5		
	0.6	55.5	18.5	57.7	22	58.5	22	58.9	22	35.5	22	35.6	18.5	26.3	18.5	26.3	22		
5.0-28	2.5	17.3	37	24.7	37	27.2	37	28.4	45	17.1	30	17.3	37	12.9	30	12.9	37		
	3.2			23.1	45	26.3	45	27.9	55	16.7	37	17	45	12.7	37	12.8	37		
	4.0			21.3	55	25.3	55	27.3	75	16.2	45	16.5	45	12.4	37	12.6	45		
5.0-40	1.6	34.6	37	39.5	45	41.1	45	42	45	25.4	30	25.6	37	19.9	30	20	37		
	2.0	32.3	37	36.8	45	40.5	45	41.5	45	25.1	37	25.3	37	18.8	37	18.9	37		

型号规格 Type specification	压力 Pressure MPa	1450r/min						950r/min						720r/min										
		30cSt			75cSt			150cSt			300cSt			450cSt			750cSt			1500cSt			2500cSt	
		m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	
5.0-10	2.5	20.4	45	37.1	45	39.7	55	41	55	24.7	37	24.9	37	18.5	37	18.6	37							
	1.0	30.7	30	53.9	30	55	37	55.5	37	33.8	30	34	30	25.3	30	25.4	30							
5.0-52	1.25	49.1	30	53.1	37	54.4	37	55.1	45	33.5	26	33.7	37	25	30	25.1	37							
	1.6	46.9	37	52	45	53.7	45	54.6	55	33.1	37	33.3	37	24.7	30	24.7	37							
5.0-64	0.6	66.1	22	68.1	22	68.8	30	69.1	37	42.3	22	42.4	30	31.6	22	31.7	30							
	1.0	63.2	30	66.6	37	67.7	37	68.2	45	41.5	30	41.7	30	30.9	30	31	30							
5.0-96	0.4	96.7	22	98.1	22	98.6	30	98.8	37	60.3	22	60.4	30	45.1	22	45.1	30							
	0.6	89.7	30	96.9	37	97.7	37	98	45	59.6	30	59.7	30	44.4	30	44.5	30							
5.5-30	2.5	26.7	45	34.1	45	36.6	55	37.8	55	22.7	45	23	45	17.1	45	17.3	45							
	3.2	23	55	32.5	55	35.7	75	37.2	75	22.2	45	22.5	55	16.8	45	17	55							
5.5-44	4.0			30.6	75	34.8	75	36.6	75	21.8	55	22.1	55	16.6	55	16.8	55							
	1.6	43	45	51.7	45	54.6	55	56	55	33.8	37	34.1	45	25.5	37	25.6	45							
5.5-56	2.0	39	55	49.9	55	53.6	55	55.4	75	33.2	45	33.6	55	25	45	25.2	55							
	2.5	34.1	55	47.8	75	52.3	75	54.6	75	32.7	55	33.3	55	24.7	45	24.8	55							
5.5-80	1.0	61.3	37	70	37	71.9	45	72.6	45	44.1	37	44.1	45	33	37	33.2	45							
	1.25	61.6	45	68.8	45	71.1	55	72.3	55	43.7	37	44	45	32.7	37	32.8	45							
5.5-120	1.6	57.9	55	67	55	70	75	71.5	75	43.1	45	43.4	45	32.3	37	32.4	45							
	0.6	90.7	30	103	37	104	45	105	45	64	30	64.2	37	40	30	40	37							
6.1-36	1.0	94.6	45	100	55	102	55	103	75	62.8	45	63.1	45	46.9	37	47	45							
	0.4	146	30	149	37	150	45	150	55	91.8	30	92	37	68.6	30	68.7	37							
6.1-50	0.6	143	45	147	55	148	55	149	55	90.7	37	90.9	45	67.6	37	67.6	45							
	2.5	40.9	75	51.9	75	55.7	75	57.4	90	33	55	33.4	75	24.9	55	25	75							
6.1-36	3.2	35.4	75	49.5	90	54.2	90	56.6	110	32.4	75	32.9	75	24.5	75	24.7	75							
	4.0			46.8	110	52.7	110	56.6	110	31.7	75	32.4	90	24	75	24.3	75							
6.1-50	1.6	67.6	55	74.8	75	77.3	75	78.5	75	47.5	55	47.8	75	35.7	55	35.8	75							
	2.0	64.2	75	73.3	75	76.3	75	77.8	90	47	75	47.5	75	35.2	55	35.3	75							
6.1-50	2.5	60	75	71.4	90	75.2	90	77.1	110	46.4	75	46.9	75	34.9	55	34.9	75							

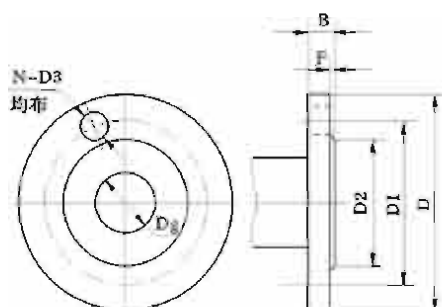
型号规格 Type specification	压力 Pressure MPa	1450r/min						950r/min						720r/min					
		30cSt	75cSt	150cSt	300cSt	450cSt	750cSt	1500cSt	3000cSt	4500cSt	7500cSt	15000cSt	30000cSt	45000cSt	75000cSt	150000cSt	300000cSt	450000cSt	750000cSt
6.1-64	1.0	99	45	103	55	105	75	106	75	64.3	45	64.7	55	48.4	45	48.5	55		
	1.25	96.6	35	102	75	104	75	105	90	64.1	55	64.3	75	48	55	48	75		
	1.6	93.3	75	101	75	103	90	104	90	63.2	75	63.7	75	47.2	55	47.5	75		
6.1-100	0.6	135	45	158	55	160	55	160	75	98	45	98	55	73.2	45	73.3	55		
	1.0	151	75	156	75	158	75	158	90	96.4	55	96.7	55	72	55	72.1	75		
6.1-144	0.4	225	45	228	55	228	55	229	55	140	45	140	55	104	45	105	55		
	0.6	222	75	225	75	227	75	227	90	138	55	138	75	103	55	103	75		
6.9-40	2.5	61.3	90	74	90	78.2	110	80.3	110	46.3	75	46.8	90	35	75	35.1	90		
	3.2	54.9	110	71.2	110	76.6	132	79.3	132	45.6	90	46.2	110	34.5	90	34.7	110		
	4.0			68	160	74.8	160	73.2	185	44.8	110	45.6	132	33.9	110	34.2	132		
6.9-56	1.6	102	90	110	90	113	110	114	110	69.8	75	70.2	90	52.5	75	52.6	90		
	2.0	98	110	108	110	112	132	114	132	69	90	69.6	110	51.9	90	52	110		
	2.5	93	132	106	132	110	132	113	160	68.4	110	68.9	110	51.4	90	51.5	110		
6.9-80	1.0	157	90	163	90	165	110	166	110	101	75	101	90	75.9	75	76	90		
	1.25	154	110	161	110	164	132	165	132	100	90	100	110	75.3	90	75.4	110		
	1.6	150	132	159	132	162	160	164	160	99.7	110	100	110	74.6	90	74.8	110		
6.9-112	0.6	228	75	232	75	233	90	234	90	143	75	143	90	107	75	107	90		
	1.0	222	110	228	110	231	132	232	132	142	90	142	110	106	90	106	110		
6.9-144	0.4	283	75	285	75	286	90	287	90	176	55	176	75	132	55	132	75		
	0.6	279	90	283	90	284	110	285	110	174	75	174	90	130	75	130	90		

型号规格 Type Specification	压力 Pressure Mpa	1450r/min						950r/min						720r/min					
		30cSt		75cSt		150cSt		300cSt		450cSt		750cSt		1500cSt		2500cSt		m³/h	kW
		m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW		
7.6-56	1.6	124.3	110	141.2	132	147	132	149.7	132	98.8	110	99.3	110	70.9	90	80.1	90		
	2.0	116.6	132	137.7	160	144.9	160	143.4	160	97.9	132	98.4	132	70.2	110	70.6	110		
	2.5	106.9	160	133.5	200	142.3	220	146.7	220	96.8	132	97.3	132	69.4	110	70.2	110		
7.6-80	1.0	200.6	110	211.3	132	214.3	132	217.4	132	143.2	110	143.7	110	104.5	90	105.3	90		
	1.25	194.6	132	208.2	132	212.8	132	215.8	132	142.5	132	143	132	104.0	110	104.7	110		
	1.6	187	132	205.2	200	211.3	220	214.3	220	141	160	141.5	160	102.9	110	103.4	110		
7.6-96	0.6	252.3	90	259.9	90	261.4	90	263.0	90	173.3	90	173.8	90	127.6	75	127.6	75		
	1.0	243.2	132	255.4	160	258.4	160	259.9	160	171.2	132	171.7	132	125.8	90	126.5	90		
	0.6	296.4	110	304.0	110	305.5	110	307.0	110	202.5	90	203	90	149.5	75	150.7	75		
7.6-112	0.8	290.3	132	301.0	132	304.0	132	305.5	132	201.4	110	201.9	110	148.6	75	149.8	75		
	0.4	410.4	90	416.5	90	418.0	90	419.5	90	275.9	75	276.4	75	205.1	75	205.9	75		
	0.6	404.3	132	411.9	132	415.2	132	417.4	132	267.8	132	268.6	132	199.0	90	199.6	90		
8.3-64	1.6	170.2	160	191.5	160	199.1	200	202.2	200	133.1	132	133.6	132	96.9	110	97.6	110		
	2.0	161.1	220	187.0	220	196.1	250	200.6	250	132.4	160	132.9	160	96.3	132	96.8	132		
	2.5	149.6	220	182.4	280	193.0	280	199.1	280	130.2	185	130.7	185	94.7	185	95.6	185		
8.3-96	1.0	287.3	160	301.0	200	307.0	220	308.6	220	203.6	132	204.1	132	150.3	110	150.8	110		
	1.25	281.2	220	297.9	220	304.0	220	307.0	250	201.3	160	201.8	160	148.6	110	149.2	110		
	1.6	270.6	280	293.4	280	301.0	280	304.0	280	200.2	185	200.7	185	147.7	132	148.5	132		
8.3-120	0.6	377	132	384.6	132	387.6	132	389.1	132	256.4	110	256.9	110	190.3	75	190.8	75		
	1.0	363.3	220	378.5	220	383.0	220	386.1	250	254	160	254.5	160	188.5	110	189.3	110		
	0.6	453	160	462.1	160	463.1	160	466.6	160	307.5	132	308	132	229.1	90	229.7	90		
8.3-144	0.8	445.4	220	459.0	220	462.1	220	465.1	220	306.3	160	306.8	160	228.1	110	228.9	110		
	0.4	585.2	132	591.3	132	592.8	132	594.3	132	390.9	110	391.4	110	292.6	75	292.8	75		
	0.6	574.6	220	585.2	220	588.2	220	589.8	200	388.7	132	389.2	132	290.6	110	291.3	110		
10.5-48	3.2	200	315	230	350	245	400	252	400	168	280	170	280	112	185	114	185		
	1.6	420	315	440	350	446	400	440	400	290	280	295	280	196	185	198	185		
	1.0	515	250	530	280	535	280	538	280	358	185	360	200	250	132	252	160		
10.5-120	0.8	680	280	696	280	701	280	703	315	175	200	177	200	325	160	328	160		
	0.6	810	280	830	280	841	280	843	315	568	200	570	200	388	160	390	160		
	0.4	881	315	893	315	898	315	902	400	591	250	590	250	592	355	598	400		
12.6-112	0.6	863	280	885	355	891	400	897	450	588	280	586	280	589	400	590	450		
	0.8	534	250	548	315	554	350	558	400	366	250	364	280	278	200	280	250		
	1.0	527	280	543	350	550	400	555	450	355	280	362	315	272	250	275	280		

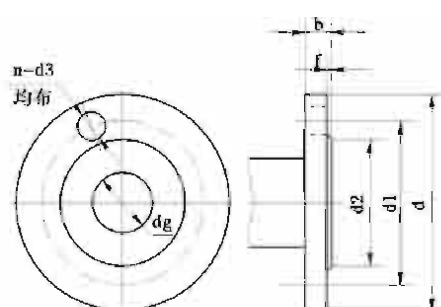
型号规格 Type specification	压力 Pressure MPa	950r/min						720r/min						580r/min					
		30cSt			150cSt			300cSt			450cSt			750cSt			1500cSt		
		m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW	m³/h	kW
7.6-56	1.6	81.8	90	92.9	110	96.7	110	98.5	110	70.2	75	70.3	90	56.4	75	56.4	90		
	2.0	76.7	110	90.6	132	95.3	132	97.6	132	69.4	90	69.5	110	55.9	90	55.9	110		
	2.5	70.3	110	87.6	132	93.6	132	96.3	132	68.6	110	69.3	110	55.3	90	55.3	110		
7.6-80	1.0	132	90	139	90	141	110	143	110	102	75	102	90	81.7	75	81.7	90		
	1.25	128	110	137	110	140	132	142	132	101	90	101	110	81.2	90	81.2	110		
	1.6	123	132	135	132	139	160	141	160	100	110	100	110	80.4	90	80.4	110		
7.6-96	0.6	166	75	171	90	172	90	173	90	124	55	124	75	99	55	99	75		
	1.0	160	110	168	132	170	132	171	132	122	75	122	90	97	75	97	90		
	0.6	195	90	200	90	201	90	202	90	144	75	144	75	115	75	115	75		
7.6-112	0.8	191	110	198	110	200	110	201	110	143	75	143	75	114	75	114	75		
	0.4	270	75	274	75	275	75	276	75	196	22	196	22	157	55	157	55		
	0.6	266	110	271	132	273	132	268	132	194	75	194	90	155	75	155	90		
8.3-64	1.6	112	132	126	132	131	132	133	132	95.2	110	95.4	110	76.5	90	76.5	90		
	2.0	106	132	123	160	129	160	132	160	94.3	110	95	132	75.8	110	75.8	110		
	2.5	98.4	160	120	185	127	185	131	185	93.2	132	94.1	185	75	132	75	185		
8.3-96	1.0	189	132	198	132	202	132	203	132	145	110	145	110	134	110	134	110		
	1.25	185	132	196	160	200	160	202	160	144	110	144	110	115	110	115	110		
	1.6	178	160	193	185	198	185	200	185	143	132	143	132	114	132	114	132		
8.3-120	0.6	246	110	253	110	255	110	256	110	183	75	183	75	146	75	146	75		
	1.0	239	160	249	160	252	160	254	160	181	110	181	110	144	110	144	110		
	0.6	298	110	304	132	306	132	307	132	202	90	202	90	175	90	175	90		
8.3-144	0.8	293	160	302	160	304	160	306	160	218	110	218	110	174	110	174	110		
	0.4	385	110	389	110	390	110	391	110	279	75	279	75	222	75	222	75		
	0.6	378	132	385	132	387	132	388	132	276	110	276	110	220	110	220	110		

9、进、出口法兰联接尺寸 (泵体代号A或B)

SUCTION-DISCHARGE FLANGE CONNECTION SIZE (THE CODE OF PUMP CASING A OR B)



进口法兰 Suction flange
(方向水平) (Horizontal direction)



出口法兰 Discharge flange
(方向水平或向上) (Horizontal direction or upwards direction)

说明: 泵体A使用压力 $\leq 1.0\text{MPa}$

泵体B使用压力 $\leq 2.5\text{MPa}$

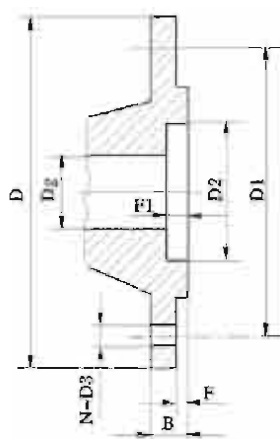
泵体C使用压力 $\leq 4.0\text{MPa}$

Illustration: The application pressure of pump casing A $\leq 1.0\text{ MPa}$

The application pressure of pump casing B $\leq 2.5\text{ MPa}$

The application pressure of pump casing C $\leq 4.0\text{ MPa}$

泵体代号 Pump casing code	进口法兰 Suction flange							出口法兰 Discharge flange						
	Dg	D	D1	D2	F	B	N-D3	dg	d	d1	d2	f	b	n-d3
2.5-A	40	145	110	85	3	18	4-18	32	135	100	78	2	16	4-18
3.1-A	65	180	145	120	3	20	4-18	50	160	125	100	3	18	4-18
3.1-B	50	160	125	100	3	22	4-18	40	145	110	85	3	20	4-18
3.4-A	80	195	160	135	3	20	8-18	65	180	145	120	3	20	4-18
3.4-B	65	180	145	120	3	24	8-18	50	160	125	100	3	24	4-18
4.0-A	100	215	180	155	3	22	8-18	80	195	160	135	3	20	4-18
4.0-B	80	195	160	135	3	26	8-18	65	180	145	120	3	24	8-18
4.5-A	125	245	210	185	3	24	8-18	100	215	180	155	3	22	8-18
4.5-B	80	195	160	135	3	26	8-18	65	180	145	120	3	24	8-18
5.0-A	150	280	240	210	3	24	8-23	125	245	210	185	3	24	8-18
5.0-B	100	230	190	160	3	28	8-23	80	195	160	135	3	26	8-18
5.5-A	175	310	270	240	3	24	8-23	150	280	240	210	3	24	8-23
5.5-B	125	270	220	188	3	30	8-25	100	230	190	160	3	28	8-23
6.1-A	225	365	325	295	3	24	8-23	200	335	295	265	3	24	8-23
6.1-B	150	300	250	218	3	30	8-25	125	270	220	188	3	30	8-25
6.9-A	250	390	350	320	3	26	12-23	225	365	325	295	3	24	8-23
6.9-B	200	360	310	278	3	32	12-25	175	330	280	248	3	32	12-25
7.6-A	300	440	400	368	4	28	12-23	250	390	350	320	3	26	12-23
7.6-B	200	360	310	278	3	32	12-25	175	330	280	248	3	32	12-25
8.3-A	300	440	400	368	4	28	12-23	250	405	355	320	3	32	12-25
8.3-B	225	395	340	302	3	34	12-30	175	330	280	248	3	32	12-25
10.5-B	300	445	400	370	4	46	12-23	300	515	430	390	4	44	16-30

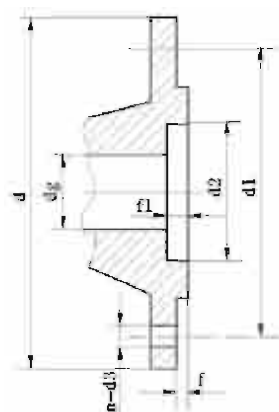


进口法兰 Suction flange
(方向水平) (Horizontal direction)

说明: 泵体A使用压力 $\leq 1.0\text{MPa}$ 泵体B使用压力 $\leq 2.5\text{MPa}$

Illustration: The application pressure of pump casing A $\leq 1.0\text{MPa}$

The application pressure of pump casing C $\leq 4.0\text{MPa}$



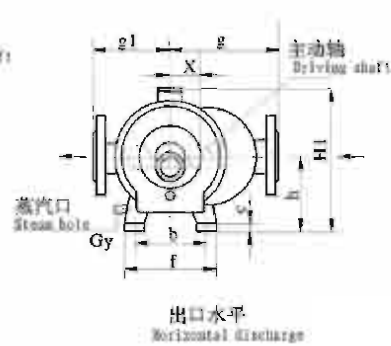
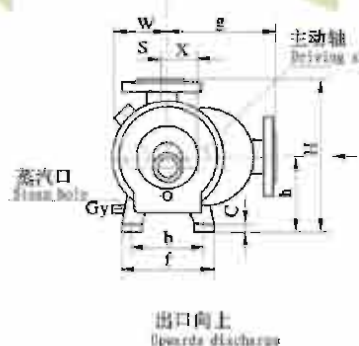
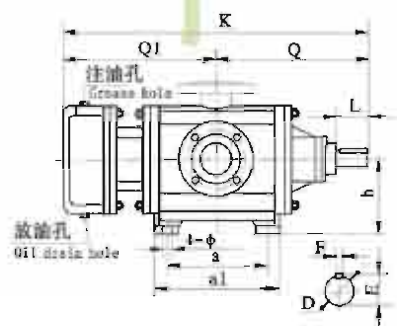
出口法兰 Discharge flange
(方向水平或向上) (Horizontal direction or upwards direction)

泵体C使用压力 $\leq 4.0\text{MPa}$

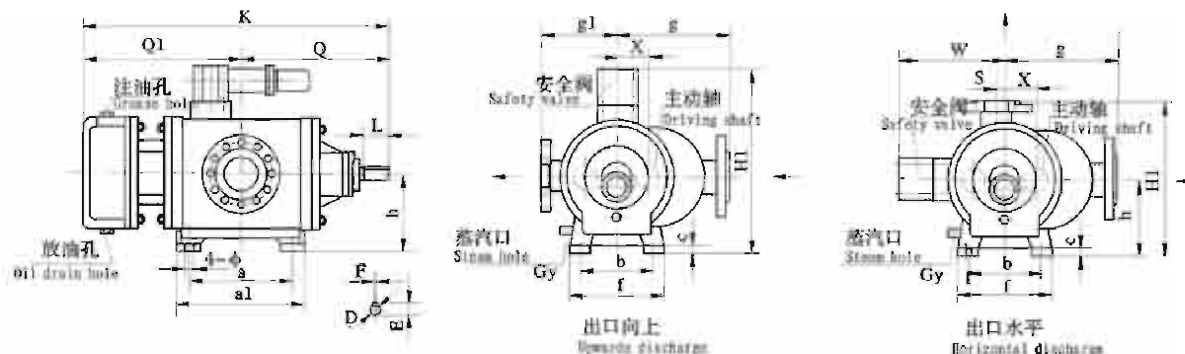
The application pressure of pump casing B $\leq 2.5\text{MPa}$

泵体代号 Pump casing code	进口法兰 Suction flange								出口法兰 Discharge flange							
	Dg	D	D1	D2	B	F	F1	N-D3	dg	d	d1	d2	b	f	fl	n-d3
5.0-C	80	195	160	121	24	3	4	8-18	65	180	145	110	22	3	4	8-18
5.5-C	100	230	190	150	26	3	4.5	8-23	80	195	160	121	24	3	4	8-18
6.1-C	125	270	220	176	28	3	4.5	8-25	100	230	190	150	26	3	4.5	8-23
6.9-C	150	300	250	204	30	3	4.5	8-25	125	270	220	176	28	3	4.5	8-25

10、2W.W双螺杆泵外形及安装尺寸 10、2W.W TWIN SCREW PUMP OUTLINE AND INSTALLATION DIMENSION

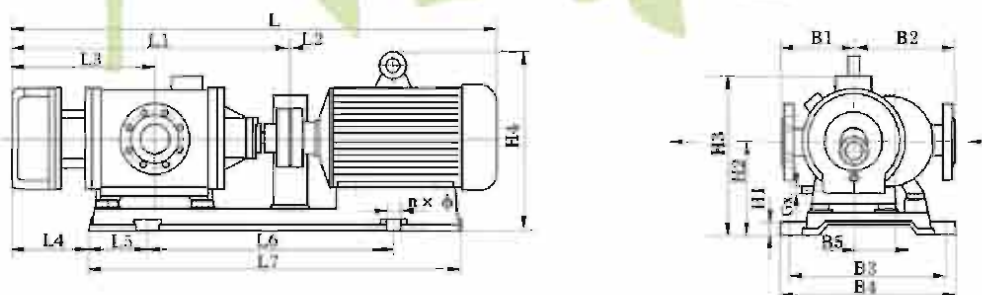


型号规格 Type specification	共用部分尺寸Common part size												轴端尺寸 Shaft end size				出口向上 Upwards exit			出口水平 Horizontal exit		重量 Weight	
	K	Q	Q1	a	a1	h	b	f	c	g	φ	Gy	X	D	F	E	L	H	W	S	H ₁	g1	Kg
2.5-	538	253	285	120	184	140	150	190	15	185	12	1/4"	27	16	5	18	32	286	100	10	288	148	60
3.1-	602	286	310	145	230	155	180	220	16	200	14	3/8"	32		6	24.5	40	315	110	10	295	160	88
3.4-	680	320	316	194	298	170	205	260	18	230	15	3/8"	35	27	8	30	40	350	130	15	330	180	128

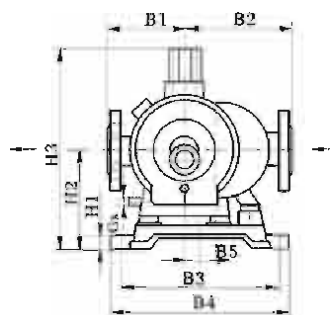
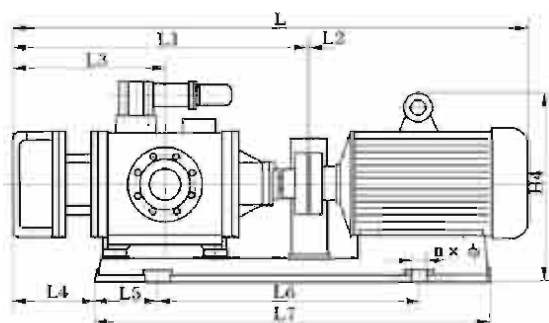


型号规格 Type specification	共用部分尺寸Common part size										轴端尺寸 Shaft ends size				出口向上 Upward exit				出口水平 Horizontal exit				重量 Weight
	K	Q	Q1	a	al	h	b	f	c	g	φ	Gy	X	D	F	E	L	H	W	S	H ₁	g1	Kg
4.0-	778	301	397	260	340	190	220	260	20	260	19	1/2"	39.25	27.5	8	30.5	70	385	292	15	482	195	200
4.5-	849	408	441	279	380	205	250	300	20	290	23	1/2"	46	38	10	41	70	420	320	20	525	215	248
5.0-	1019	491	528	389	509	240	250	320	25	320	23	1/2"	52.5	45	14	48.5	75	480	425	30	665	240	356
5.5-	1113	547	566	457	595	255	300	390	25	365	24	1/2"	57.75	48	14	51.5	85	515	465	30	728	260	482
6.1-	1203	596	607	530	661	275	320	390	25	385	25	1/2"	62.5	50	14	54.5	90	545	510	30	785	270	653
6.9-	1291	644	647	560	706	300	330	460	30	395	25	1/2"	70.5	58	16	62	120	590	550	35	850	290	770
7.6-	1454	725	729	698	858	325	380	460	30	470	25	1/2"	75	58	16	62	120	645	590	50	885	315	954
8.3-	1561	750	811	712	872	350	410	480	30	495	30	1/2"	82.5	64	18	68	130	690	620	50	970	340	1235
10.5-	1795	908	887	713	953	425	504	654	40	480	30	0	103	80	22	85	172	905	741	80	1166	701	1825

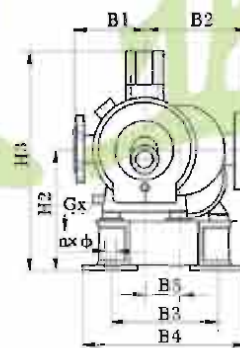
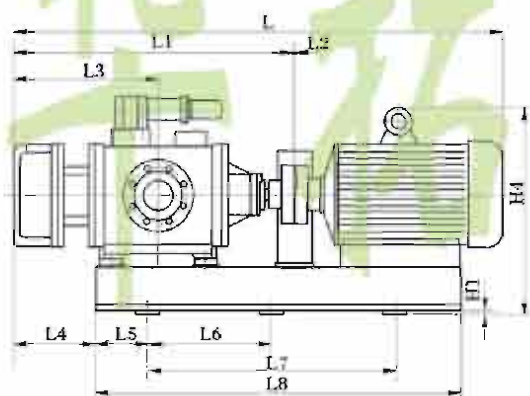
11、2W.W双螺杆泵整机外形及安装尺寸 2W.W TWIN SCREW PUMP OUTLINE AND INSTALLATION DIMENSION



型号机座号 Type Machine designation number	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	B ₁	B ₂	B ₃	B ₄	B ₅	H ₁	H ₂	H ₃	H ₄	Gx	n x φ	配套电机型号 Matched motor type	电机功率 Motor power
2W.W2.5-01	971	538	3	285	188	125	395	645	148	185	280	320	27	20	200	346	470	1/4"	4 x 12	Y100L ₂ -4	3
2W.W2.5-02	1001	538	3	285	188	125	405	655	148	185	280	320	27	20	200	346	485	1/4"	4 x 12	Y112M-6	2.2
2W.W3.1-21	1155	602	3	316	183	150	514	814	160	200	340	380	32	20	230	367	568	3/8"	4 x 15	Y32S-4 Y132M-6	5.5
2W.W3.1-22	1260	602	3	316	183	150	595	895	160	200	380	420	32	20	230	367	600	3/8"	4 x 15	Y160M ₁ -8	4
2W.W3.4-41	1328	680	3	360	191	170	670	1010	180	230	375	425	35	25	265	425	590	3/8"	4 x 15	Y160L(M) -4(6,8)	15(11,7,5)



型号机座号 Type Machine foundation number	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	B ₁	B ₂	B ₃	B ₄	B ₅	H ₁	H ₂	H ₃	H ₄	G×	n×φ	配套电机型号 Matched motor type	电机功率 Motor power
2W.W4.0-51	1530	778	3	397	215	190	741	1121	195	260	400	440	39	25	270	560	615	1/2"	4×15	Y180M(L)-4(6,8)	18.5(15,11)
2W.W4.0-52	1475	778	3	397	215	190	700	1080	195	260	385	425	39	25	270	540	595	1/2"	4×15	Y160L-4(6)	15(11)
2W.W4.5-61	1657	849	3	441	231	220	780	1220	215	290	455	505	46	30	320	635	710	1/2"	4×19	Y200L-4(6,8)	30(22,18.5,15)
2W.W4.5-62	1697	849	3	441	231	220	813	1253	215	290	500	550	46	30	320	635	710	1/2"	4×19	Y225S-8	18.5
2W.W4.5-63	1602	849	3	441	231	220	740	1180	215	290	460	510	46	30	320	635	665	1/2"	4×19	Y180L-4	22
2W.W5.0-71	1892	1019	3	528	253	230	962	1422	240	320	520	580	52.5	25	355	780	745	1/2"	4×19	Y255M(S)-4(6)	30(37.45)
2W.W5.0-72	1957	1019	3	528	253	230	1031	1494	240	320	580	640	52.5	25	355	780	845	1/2"	4×19	Y250M-6(8)	37(30)



型号机座号 Type Machine foundation number	L	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	L ₈	B ₁	B ₂	B ₃	B ₄	B ₅	H ₁	H ₂	H ₃	H ₄	G×	n×φ	配套电机型号 Matched motor type	电机功率 Motor power
2W.W5.5-81	2054	1113	6	566	265	150	635	1270	1570	260	365	465	555	57.8	30	445	910	965	1/2"	6×19	Y250M-4	55
2W.W5.5-82	2179	1113	6	566	265	210	635	1270	1690	260	365	515	605	57.8	30	470	935	1020	1/2"	6×19	Y308S(M)-4(6,8)	75(55,45,37)
2W.W6.1-91	2268	1203	6	607	272	235	650	1300	1770	270	385	500	650	62.5	30	490	1000	1040	1/2"	6×19	Y280S(M)-4	75(90)
2W.W6.1-92	2398	1203	6	607	272	235	650	1344	1841	270	385	590	740	62.5	30	525	1035	1185	1/2"	6×19	Y315S-6(8)	75(55)
2W.W6.1-93	2143	1203	6	607	272	235	650	1180	1654	270	385	484	620	62.5	30	485	995	1005	1/2"	6×19	Y280M-4	55
2W.W6.9-101	2566	1291	6	647	287	246	730	1460	1952	290	395	590	730	70.5	34	555	1025	1220	1/2"	6×23	Y315M(L)-4(6,8)	132(110,90)
2W.W7.6-111	2909	1454	6	729	295	314	740	1480	2159	315	470	600	690	75	30	545	1100	1210	1/2"	6×23	Y315M(S,L)-4(6,8)	132(110,90)
2W.W8.3-131	3016	1561	6	811	365	300	780	1560	2160	340	495	595	700	82.5	30	560	1200	1295	1/2"	6×23	Y315L-6	132
2W.W10.5	3460	1837	8	886	530	333.5	713	2412	3060	480	710	780	850	105	0	674	1415	1354	0	8×30	Y355L2-4	315



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