

⚠ 在使用本产品前请仔细阅读本手册，本将其放在设备附近以备将来参阅。
Before use, please read this manual carefully and be placed nearby to the equipment for future reference



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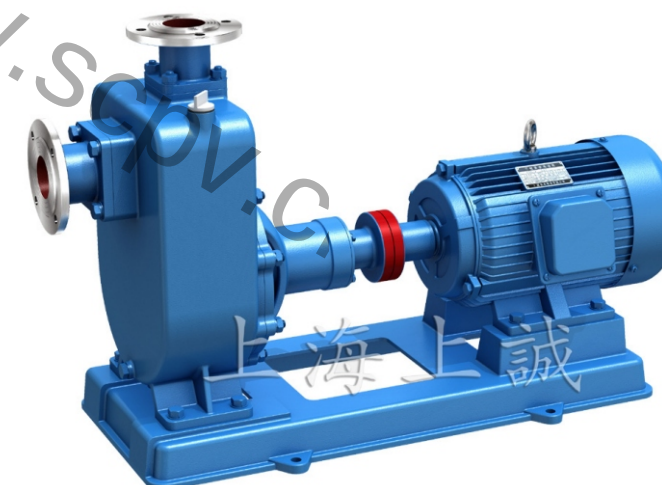
PUMP AND VALVE MANUFACTURING CO.,LTD

ZX型自吸泵
ZX SELF-PRIMING PUMPS

产品说明书 Product specification

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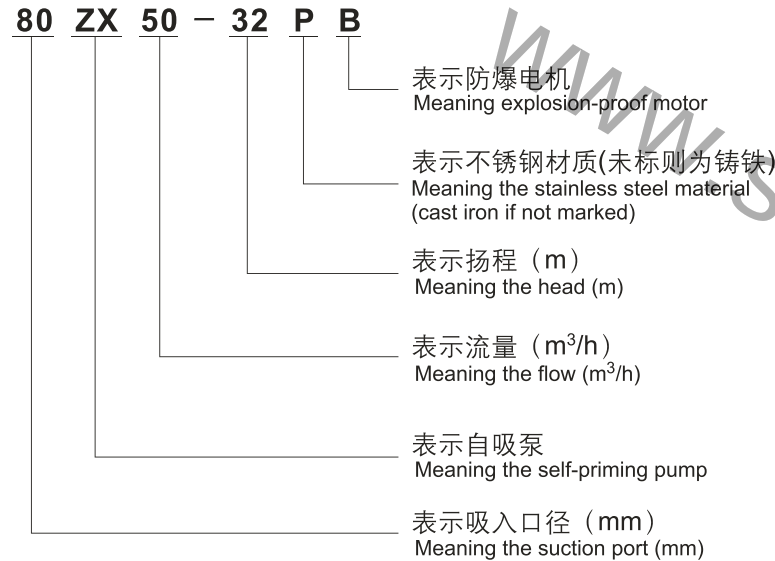
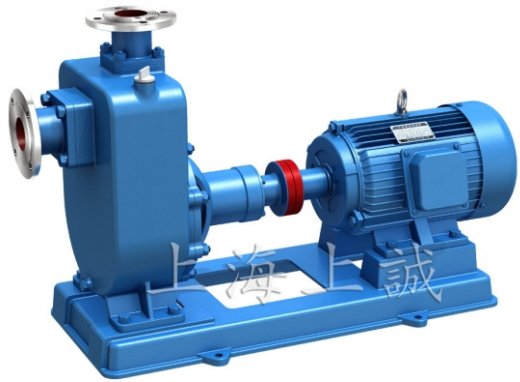
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ZX型自吸泵产品简介 Brief Introduction of ZX Self-Priming Pumps

ZX型自吸泵 ZX Self-Priming Pumps

型号意义 Designation



特点 Features

本公司生产的ZX系列自吸泵是根据国内外有关技术资料经吸收、消化、改进后研制而成的节能泵类产品。该泵属自吸式离心泵，它具有结构紧凑、操作方便、运行平稳、维护容易、效率高、寿命长，并有较强的自吸能力等优点。管路中不需安装底阀，工作前只需保证泵体内储有定量引流液即可。因此简化了管路系统，又改善了劳动条件。

Our ZX Series Self-Priming Pump is a kind of energy-saving pump developed by us after studying relevant technical data both at home and abroad and also making improvement. This is a kind of self-priming centrifugal pump, featured by a compacted structure, easy and stable operation, easy maintenance, high efficiency, long life, strong self-priming capacity, etc. The foot valve is unnecessary for the pipeline. Just make sure there is quantitative conduction liquid in the pump body before the operation. Therefore, it simplifies the pipeline system and improves the working condition.

用途 Applications

- 适用于城市环境、建筑、消防、化工、制药、染料、印染、酿造、电力、电镀、造纸、工矿冲洗、设备冷却等。
- Applicable for urban environment, construction, fire control, chemical industry, pharmacy, dye, brewage, power electricity, plating, paper making, washing of industrial mines, cooling of equipment, etc.
- 装上摇臂式喷头、又可将水冲到空中后，散成细小雨滴进行喷雾，是农场、苗圃、果园、茶园的良好机具。
When mounted with a swing arm sprayer, the water can go into the air and become small drips to spray, thus being a good tool for farm, nursery, garden, tea garden.
- 适用于清水、海水及带有酸、碱度的化工介质液体和带有一般糊状的浆料（介质粘度 ≤ 100 厘泊、含固量可达30%以下）。
- Applicable for clear water, seawater, liquid chemical media with a certain degree of acidity and alkalinity and generally pasty serum (medium viscosity ≤ 100 centipoise and solid content below 30%).
- 可和任何型号、规格的压滤机配套使用，将浆料送给压滤机进行压滤的最理想配套泵种。
- Being applicable for working together with filter presses of any types and specifications, it is the most ideal supportive pump to deliver the serum to the filter press for the press and filter.

工作条件 Operating Conditions

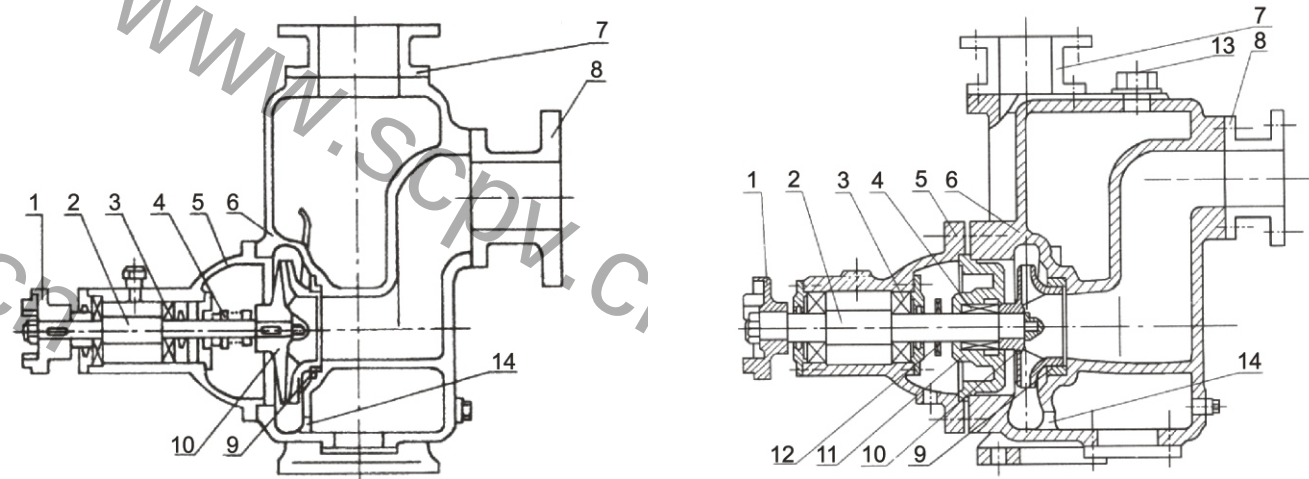
- 环境温度： $\leq 40^{\circ}\text{C}$ 。介质温度： $-10\sim 80^{\circ}\text{C}$ 、 $\leq 120^{\circ}\text{C}$ （热水型）
- 材质：铸件、不锈钢。
- Ambient temperature: $\leq 40^{\circ}\text{C}$; medium temperature: $-10\sim 80^{\circ}\text{C}$ 、 $\leq 120^{\circ}\text{C}$ (hot water type)
- Material: casting and stainless steel.

供货范围 Supply Scope

- 水泵、包装及使用说明书，水泵的隔振垫、隔振器及波纹管可作为附件供货(价格另计)。
- Water pump, packaging and instruction manual, vibration isolating pad, vibration isolator and bellows of water pump can be provided as accessories (additionally charged)

ZX型泵结构图与工作原理 Structural Drawing and Work Principle of ZX Pumps

结构图 Structural Drawing



1	联轴器 Coupling	2	泵轴 Pump Shaft	3	轴承 Bearing	4	机械密封 Mechanical seal	5	轴承体 Bearing body	6	泵壳 Pump case	7	出口座 Outlet base
8	进口座 Inlet base	9	前密封环 Front seal ring	10	叶轮 Impeller	11	后盖 Rear cover	12	档水圈 Water deflector	13	加液孔 Filling port	14	回液孔 Liquid return port

工作原理 Work Principle

该泵均采用轴向回液的泵体结构。泵体由吸入室、储液室、涡卷室、回液孔、气液分离室等组成，泵正常启动后，叶轮将吸入室所存的液体及吸入管路中的空气一起吸入，并在叶轮内得以完全混合，在离心的作用下，液体夹带着气体向涡卷室外缘流动，在叶轮的外缘上形成有一定厚度的白色泡沫带及高速旋转液环。气液混合物通过扩散管进入气液分离室。此时，由于流速突然降低，较轻的气体从混合气液中被分离出来，气体通过泵体吐出口继续上升排出。脱气后的液体回到储液室，并由回流孔再次进入叶轮，与叶轮内部从吸入管中吸入的气体再次混合，在高速旋转的叶轮作用下，又流向叶轮外缘……。随着这个过程周围而复始地进行下去，吸入管路中的空气不断减少，直到吸尽气体，完成自吸过程，泵便投入正常作业。

在一些泵的轴承体底部还设有冷却室。当轴承发热引起轴承体温度超过 70°C 时，可在冷却室处通过任意一只冷却液管接头，注入冷却液循环冷却。泵内部防止液体由高压区向低压区泄漏的密封机构是前后密封环，前密封环装在泵体上，后密封环装在轴承体上，当泵经长期运转密封环磨损到一定程度，并影响到泵的效率和自吸性能时，应给予更换。

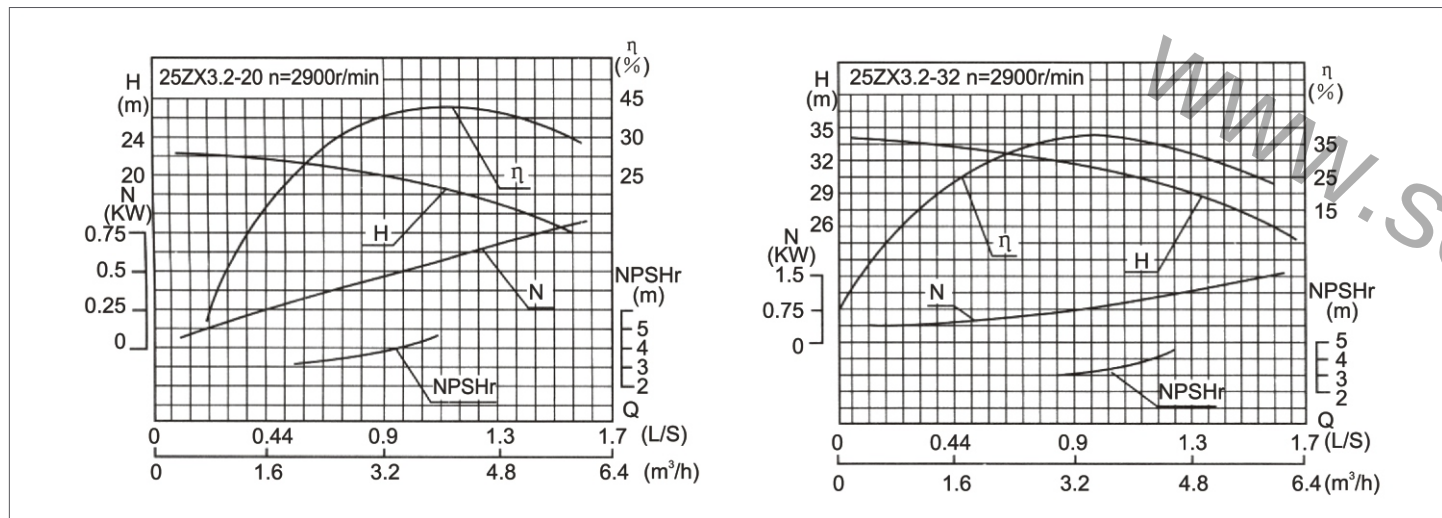
The pump adopts a pump body structure with axial return of liquid. The pump body consists of suction chamber, liquid storage chamber, turbination chamber, liquid return port, gas-liquid separation chamber, etc. After the pump starts normally, the impeller will suck the liquid in the suction chamber and the air in the inlet line so that the both can mix fully in the impeller. Due to the centrifugal force, the liquid along with the gas flows towards the outer edge of the turbination chamber and then a belt of white foam with a certain thickness and a liquid ring with high-speed rotation come into being on the outer edge of the impeller. The gas-liquid mixture enters the gas-liquid separation chamber through the diffusion tube. Here the lighter gas will be separated from the mixture and rise up and be discharged out of the pump body outlet as the flow speed reduces suddenly. The liquid separated from the gas will return to the liquid storage chamber and enter the impeller again through the return port which mixes again with the gas in the impeller sucked from the inlet line. It then flows towards the outer edge of the impeller due to the high-speed rotation of the impeller. As this process goes round and round, the air in the inlet pipe will reduce constantly until the gas is suctioned out and the self-priming is completed. Then the pump will begin to work normally.

For some pumps, a cooling chamber will additionally be mounted on the bottom of the bearing body. When the bearing heats and its temperature exceeds 70°C , the cooling liquid can be injected through any connection of cooling liquid pipe of the cooling chamber for the circulating cooling. A front-back seal ring structure is adopted in the pump to prevent the liquid from leaking from the high-pressure area to the low-pressure area. The front seal ring is mounted on the pump body while the back seal ring mounted on the bearing body. They should be changed when they are so worn-out that they have an effect on the efficiency and self-priming performance of the pump after the operation for a long time.

ZX型泵性能曲线图、性能参数表及安装尺寸图表

Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of ZX Pumps

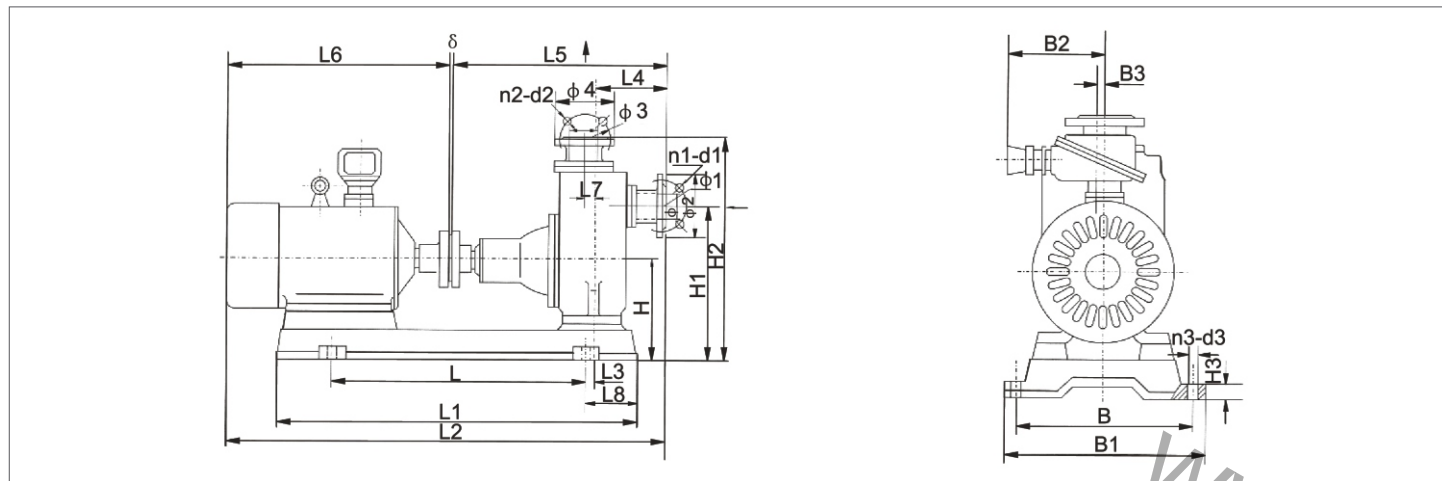
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
25ZX3.2-20	3.2	0.9	20	6.5	2900	1.9	0.46	0.75	25	25
25ZX3.2-32	3.2	0.9	32	6.5	2900	1.8	0.8	1.1	25	25

安装尺寸图 Installation Dimensions Drawing



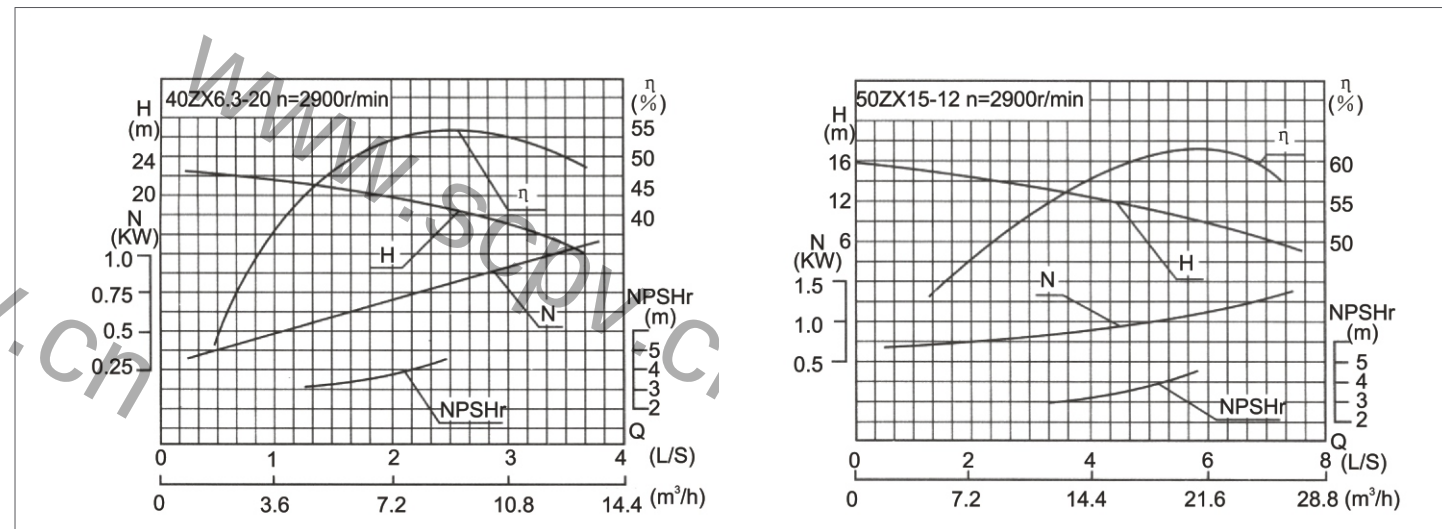
安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
25ZX3.2-20	Y801-2	1.1	320	615	791	75	155	450	339	38	155	2	195	300	436	20	280	320	225	4	75	100	75	100	4-12	4-12	4-14
25ZX3.2-32	Y802-2	1.5	350	580	732	45	125	391	339	重合 Polymerization	115	2	200	320	450	15	300	330	225	重合 Polymerization	75	100	75	100	4-12	4-12	4-12

ZX型泵性能曲线图、性能参数表及安装尺寸图表

Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of ZX Pumps

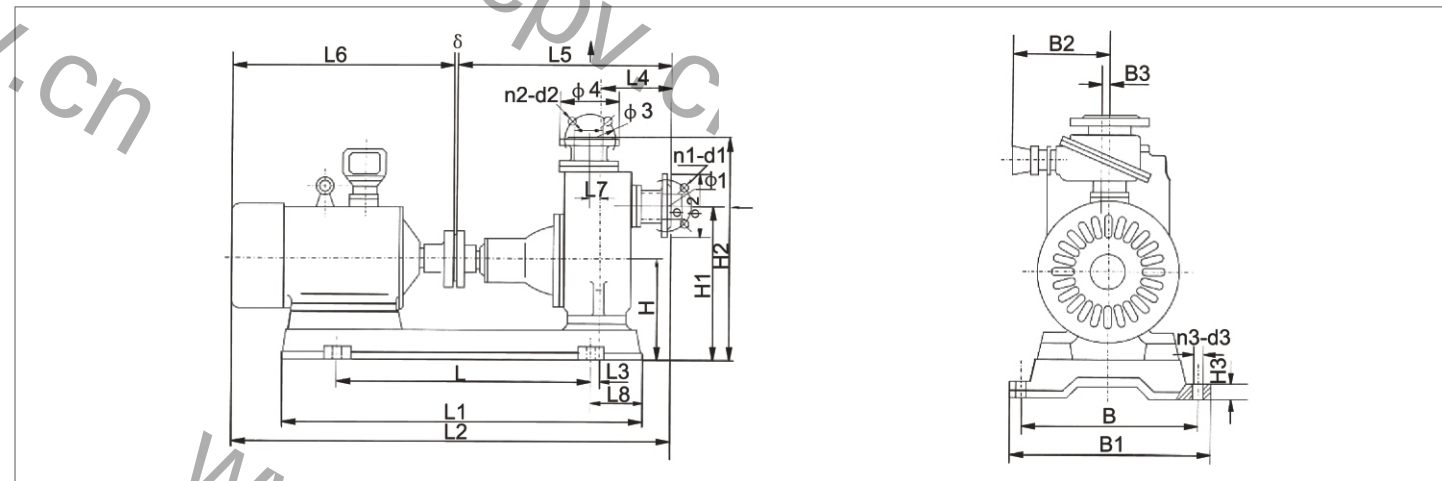
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
40ZX6.3-20	6.3	1.8	20	6.5	2900	1.9	0.87	1.1	40	32
40ZX10-40	10	2.8	40	6.5	2900	1.5	2.7	4	50	40
50ZX15-12	15	4.2	12	6.5	2900	2.4	1.1	1.5	50	50

安装尺寸图 Installation Dimensions Drawing

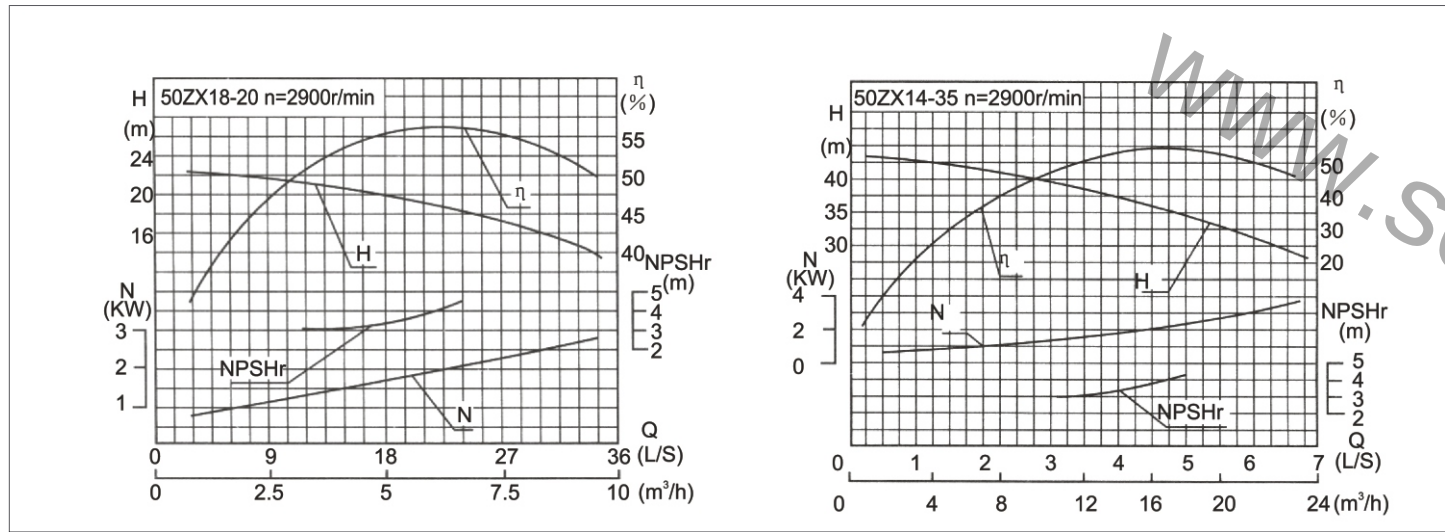


安装尺寸表 Installation Dimensions

Type 泵型号	电机Power 		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ 1	φ 2	φ 3	φ 4	n1-d1	n2-d2	n3-d3
	型号 Type	功率 kw																									
40ZX6.3-20	Y802-2	1.5	320	615	791	75	155	450	339	38	150	2	195	300	436	20	280	320	225	重合 Polymerization	100	130	100	120	4-14	4-14	4-14
40ZX10-40	Y112M-2	4	500	790	990	33	173	515	470	重合 Polymerization	145	3	220	380	530	30	370	410	225	重合 Polymerization	100	130	110	130	4-14	4-14	4-14
50ZX15-12	Y90S-2	1.5	320	615	777	80	131	406	369	重合 Polymerization	150	2	185	305	436	20	280	320	225	4.5	110	140	110	140	4-14	4-14	4-14

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of ZX Pumps

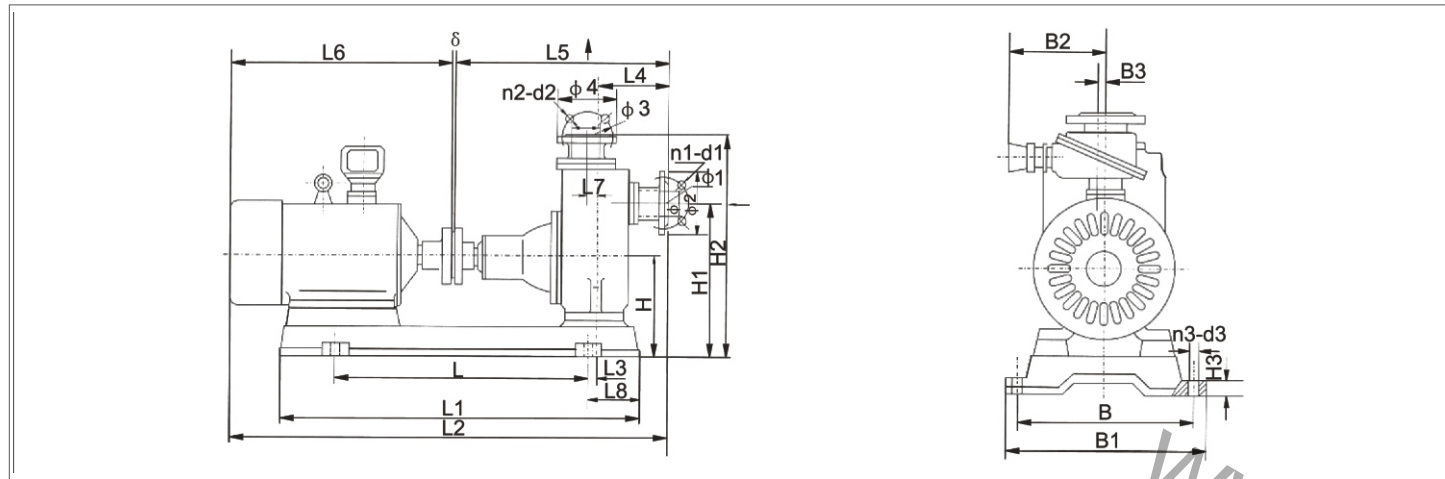
性能曲线图 Performance Curve



性能参数表 Performance Parameters

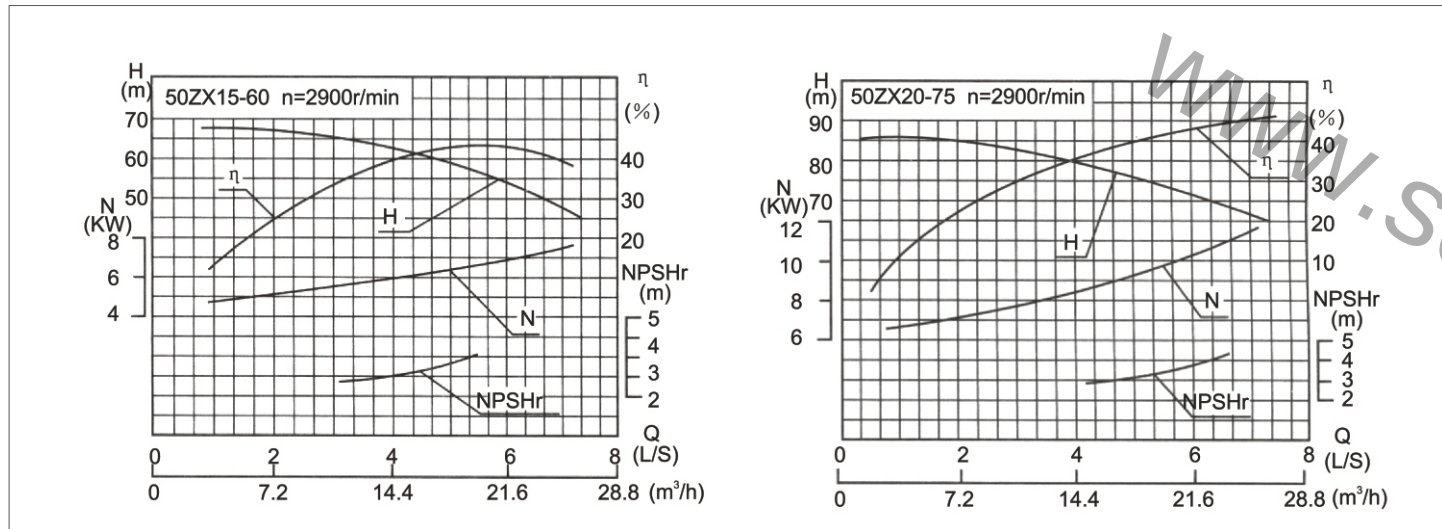
Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
50ZX18-20	18	5	20	6.5	2900	1.9	1.8	2.2	50	50
50ZX12.5-32	12.5	3.5	32	6.5	2900	1.5	2.1	3	50	50
50ZX20-30	20	5.6	30	6.5	2900	1.5	2.6	4	50	50
50ZX14-35	14	3.9	35	6.5	2900	1.5	2.7	4	50	50

安装尺寸图 Installation Dimensions Drawing



ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing、Table of ZX Pumps

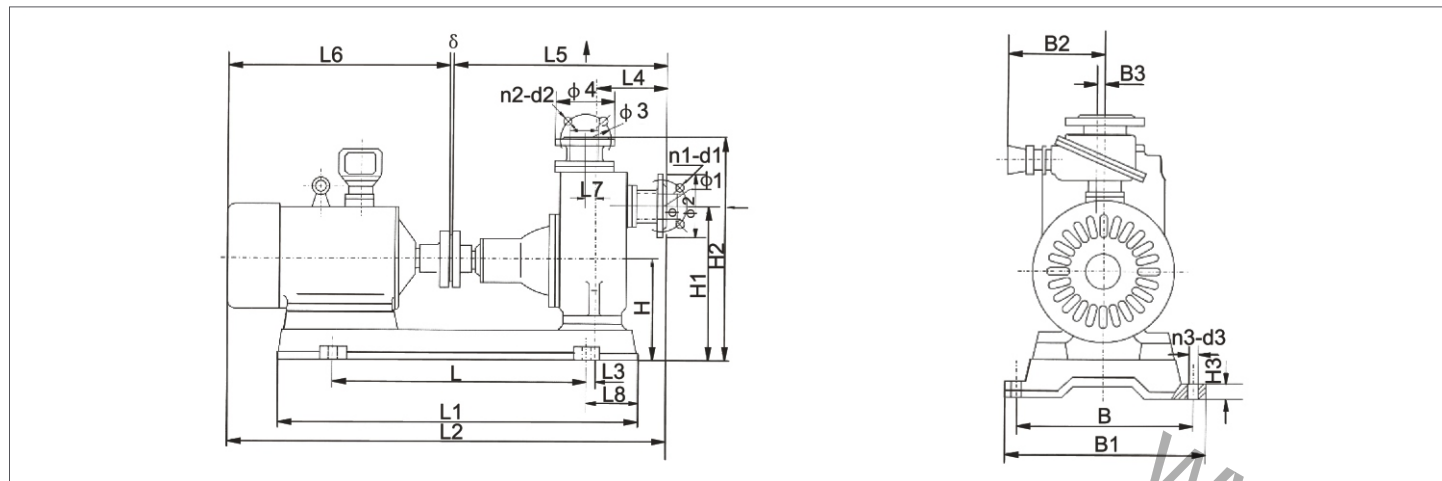
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m ³ /h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
50ZX15-60	15	4.2	60	6.5	2900	1.3	6.2	7.5	50	50
50ZX20-75	20	5.6	75	6.5	2900	1.3	9.8	11	50	50

安装尺寸图 Installation Dimensions Drawing

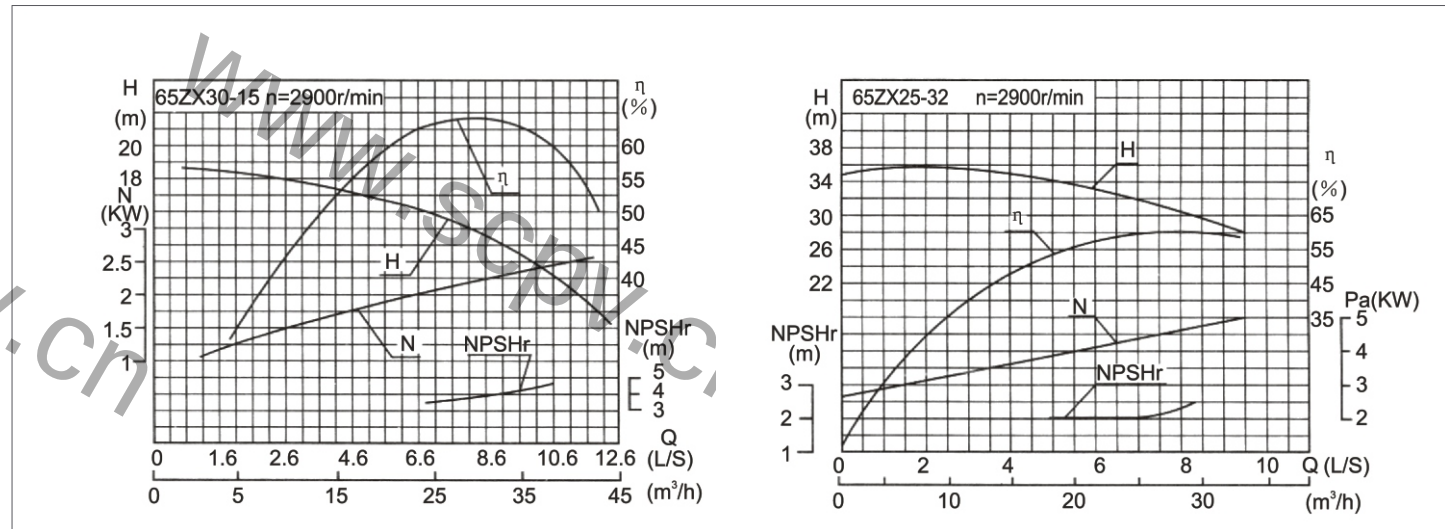


安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
50ZX15-60	Y132S2-2	7.5	510	870	1064	60.5	230	541	520	重合	180	3	270	440	600	25	380	410	240	8	125	160	125	160	4-14	4-14	4-18
50ZX20-75	Y160M1-2	11	600	1000	1212	87.5	230	541	668	重合	200	3	280	450	630	25	415	445	240	8	125	160	125	160	4-18	4-18	4-18

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing、Table of ZX Pumps

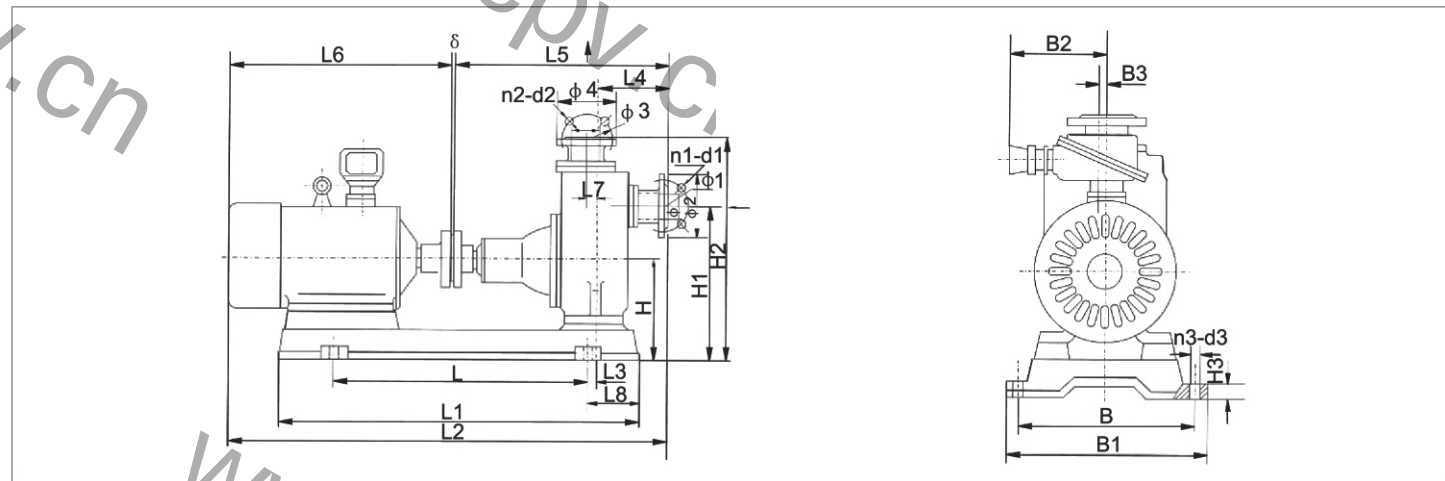
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m ³ /h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
65ZX30-15	30	8.3	15	6.5	2900	2	1.9	3	65	65
65ZX25-32	25	6.9	32	6	2900	1.5	4.4	5.5	65	65

安装尺寸图 Installation Dimensions Drawing

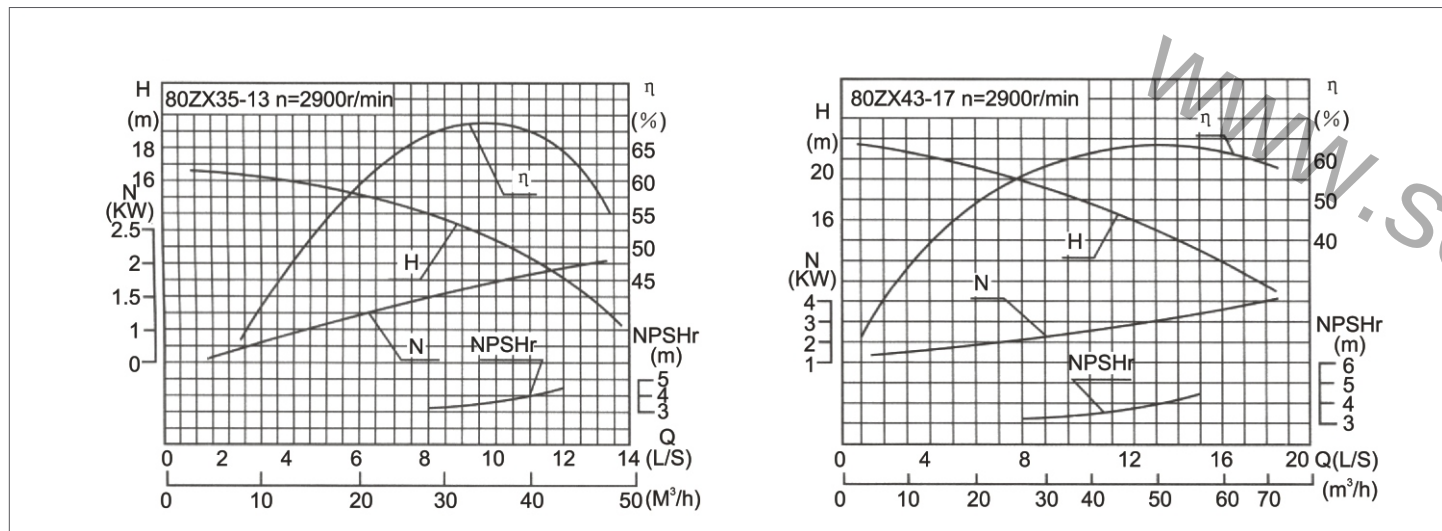


安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
65ZX30-15	Y100L-2	3	440	680	864	36	135	421	440	重合	120	3	203	333	473	25	320	360	225	8	130	160	110	140	4-14	4-14	4-14
65ZX25-32	Y132S1-2	5.5	480	870	989	63	148	466	520	重合	195	3	220	370	530	30	360	404	240	8	130	160	110	140	4-18	4-14	4-18

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing、Table of ZX Pumps

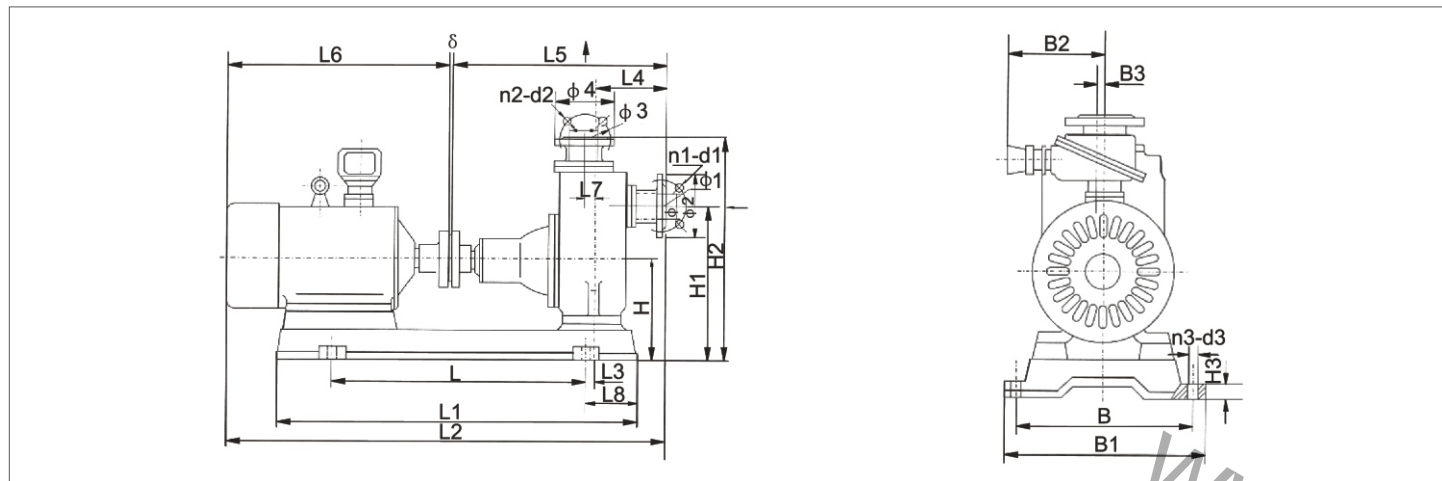
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
80ZX35-13	35	9.7	13	6	2900	3.4	1.9	3	80	80
80ZX43-17	43	12	17	6	2900	1.8	3.1	4	80	80

安装尺寸图 Installation Dimensions Drawing

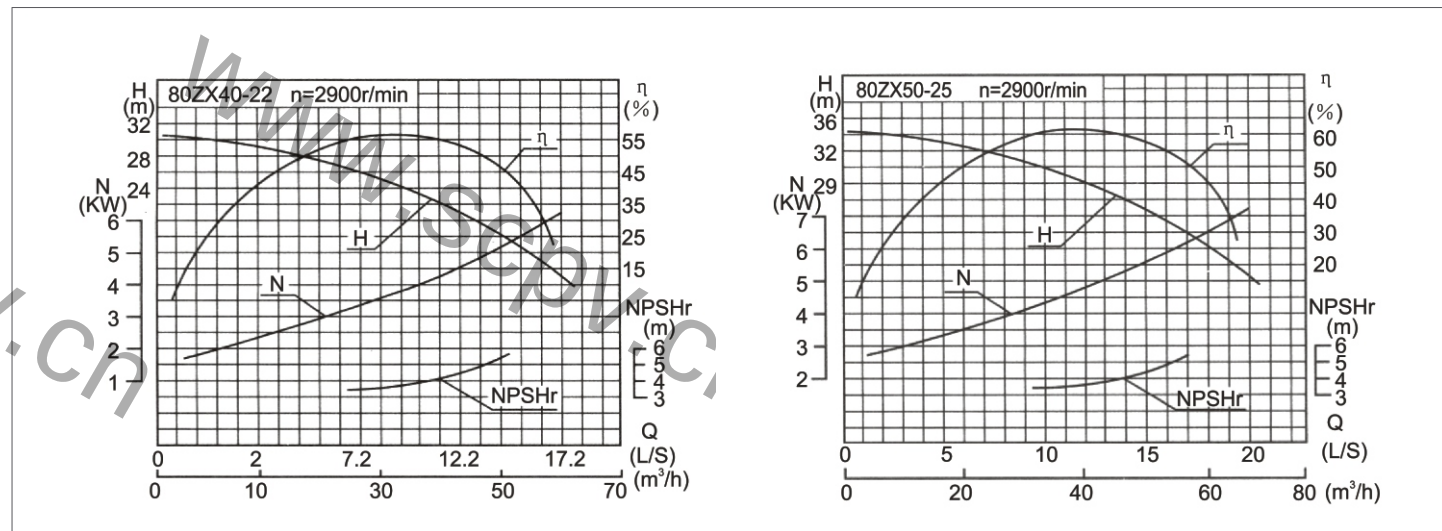


安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
80ZX35-13	Y100L-2	3	440	680	884	42	145	441	440	重合 Polymer- ization	120	3	203	343	493	25	320	360	225	9	150	185	130	160	4-18	4-14	4-14
80ZX43-17	Y112M1-2	4	500	795	949	25	152	476	470	重合 Polymer- ization	145	3	220	370	530	30	370	410	225	12	150	185	130	160	4-18	4-14	4-14

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing、Table of ZX Pumps

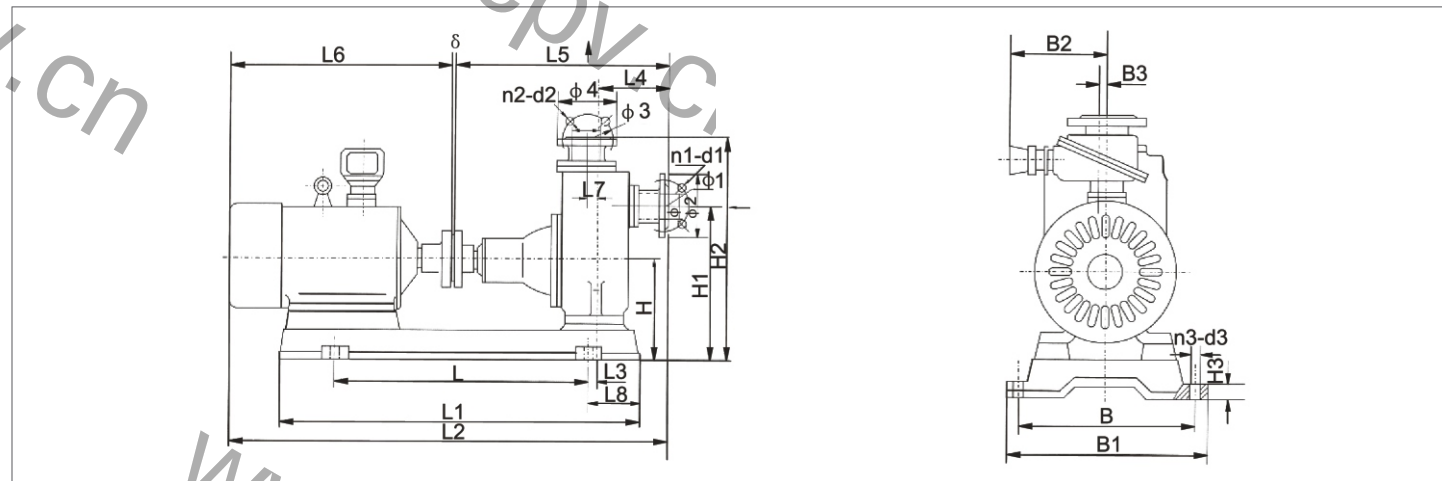
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
80ZX40-22	40	11.1	22	6	2900	1.9	4.4	5.5	80	80
80ZX50-25	50	13.9	25	6	2900	1.5	5.2	7.5	80	80

安装尺寸图 Installation Dimensions Drawing

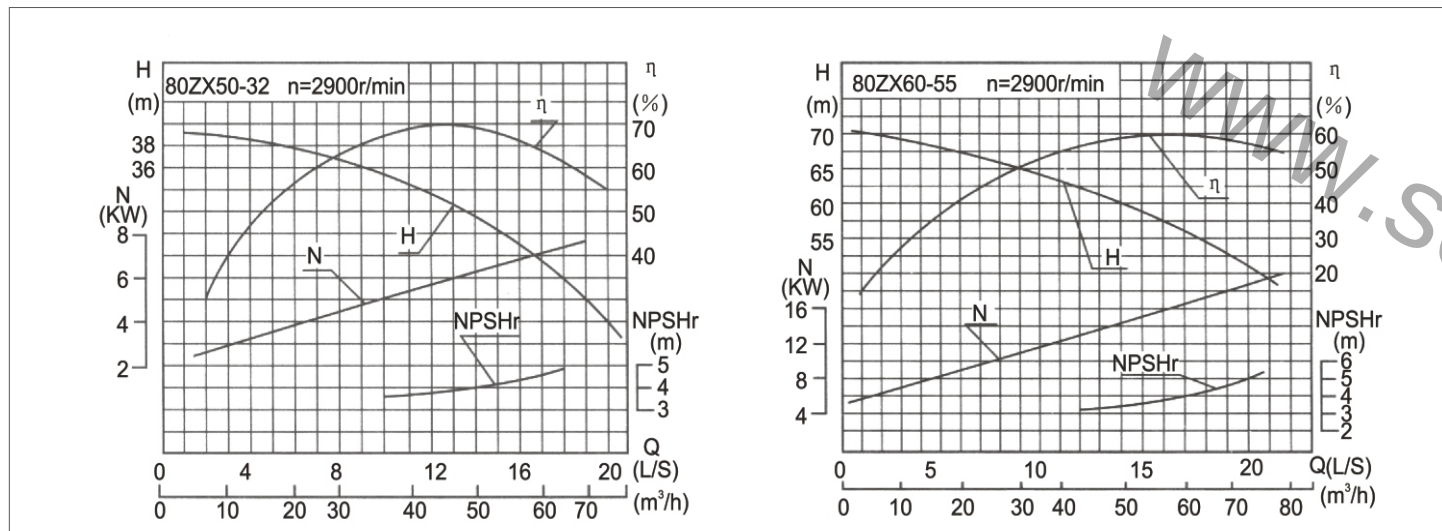


安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
80ZX40-22	Y132S1-2	5.5	480	870	999	61	152	476	520	重合 Polymer- ization	195	3	220	370	530	30	360	404	240	12	150	185	130	160	4-18	4-14	4-14
80ZX50-25	Y132S2-2	7.5	480	870	1080	70.5	270	557	520	重合 Polymer- ization	195	3	225	406	595	30	360	404	240	重合 Polymer- ization	160	195	160	195	4-18	4-18	4-18

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of ZX Pumps

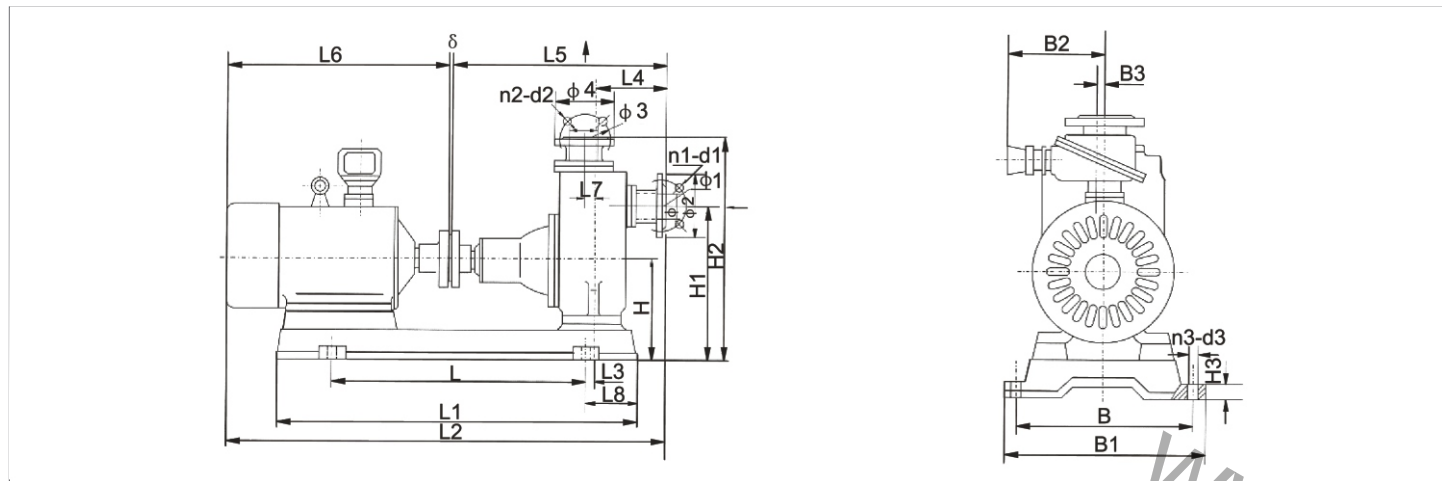
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m ³ /h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
80ZX50-32	50	13.9	32	6	2900	1.5	6.8	7.5	80	80
80ZX60-55	60	16.7	55	6	2900	1.5	15	18.5	80	80

安装尺寸图 Installation Dimensions Drawing

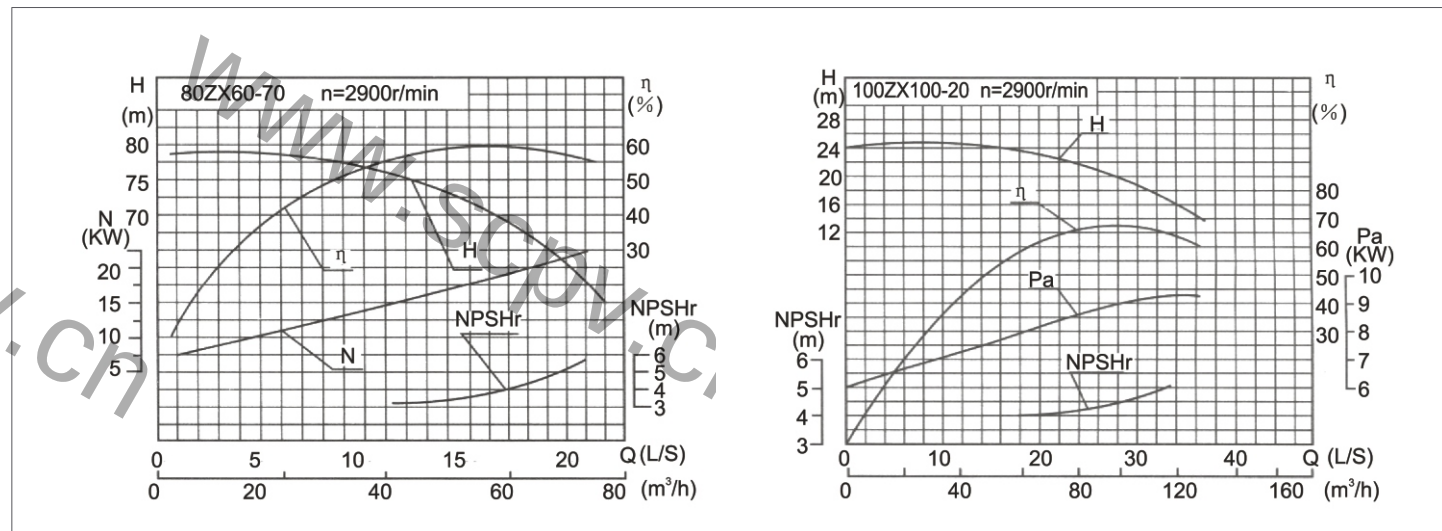


安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
80ZX50-32	Y132S2-2	7.5	480	870	1080	70.5	270	557	520	70	195	3	225	406	595	30	360	404	240	重合 Polymerization	160	195	160	195	4-18	4-18	4-18
80ZX60-55	Y160L-2	18.5	600	1025	1269	95	200	558	708	重合 Polymerization	200	3	280	450	655	25	415	445	240	10	160	195	160	195	4-18	4-18	4-18

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of ZX Pumps

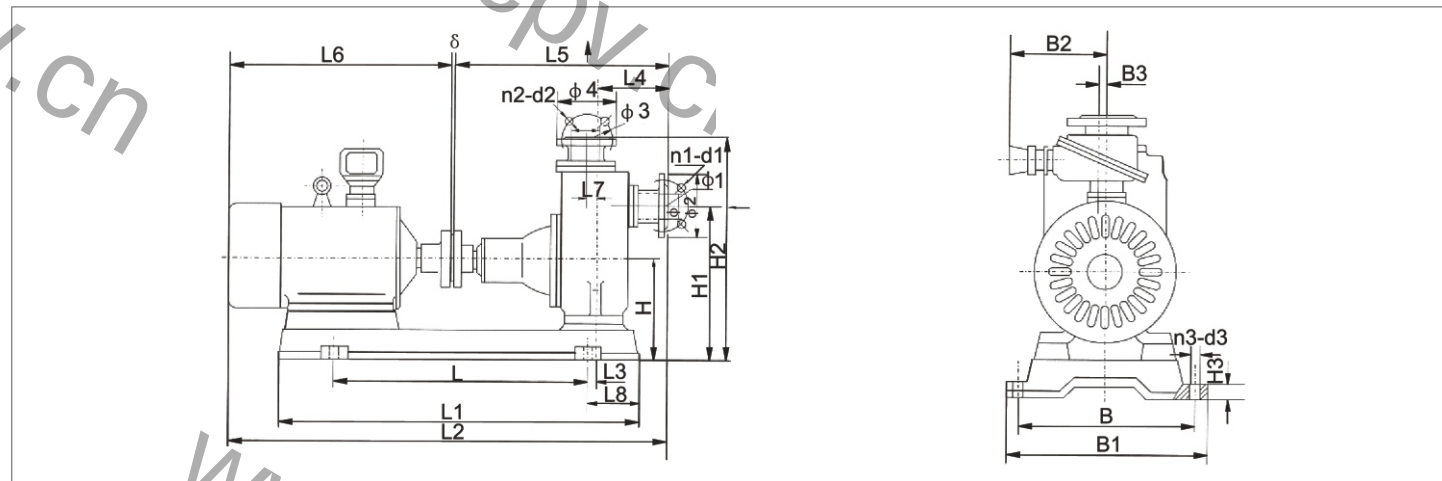
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m ³ /h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
80ZX60-70	60	16.7	70	6	2900	1.2	20.1	22	80	80
100ZX100-20	100	27.8	20	6	2900	1.8	7.8	11	100	100

安装尺寸图 Installation Dimensions Drawing

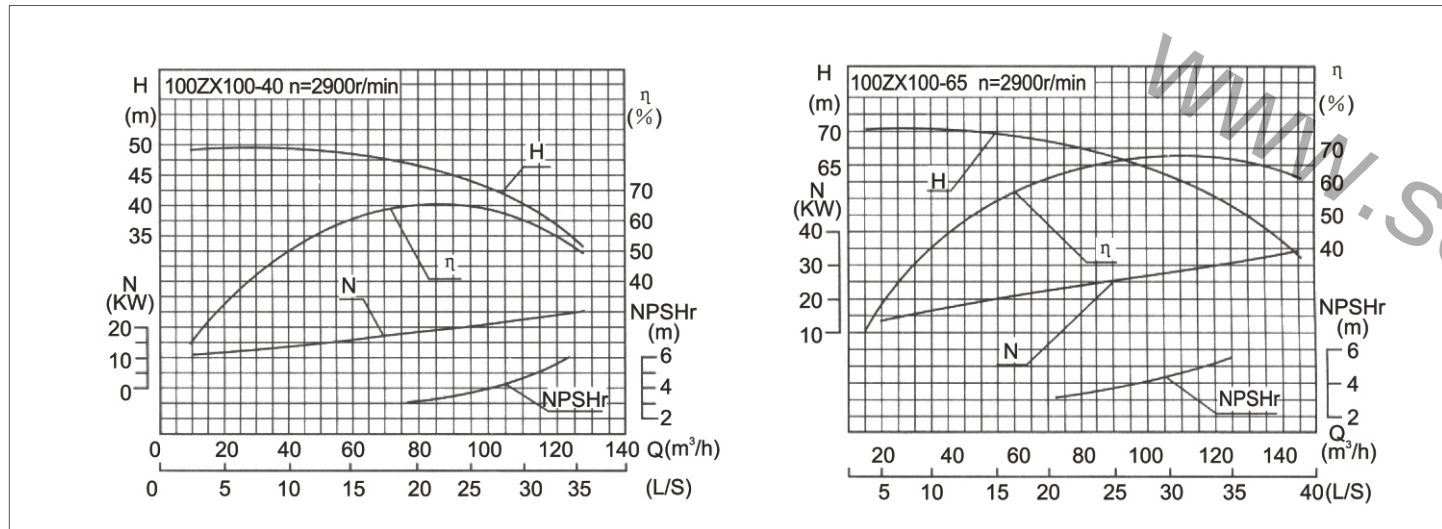


安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
80ZX60-70	Y180M-2	22	730	1170	1404	38	211	656	745	重合 Polymerization	195	3	300	490	705	30	460	510	240	10	160	195	160	195	4-18	4-18	4-18
100ZX100-20	Y160M1-2	11	600	1000	1246	87.5	202	575	668	重合 Polymerization	200	3	260	420	590	30	415	445	240	重合 Polymerization	170	210	170	250	4-18	4-18	4-18

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of ZX Pumps

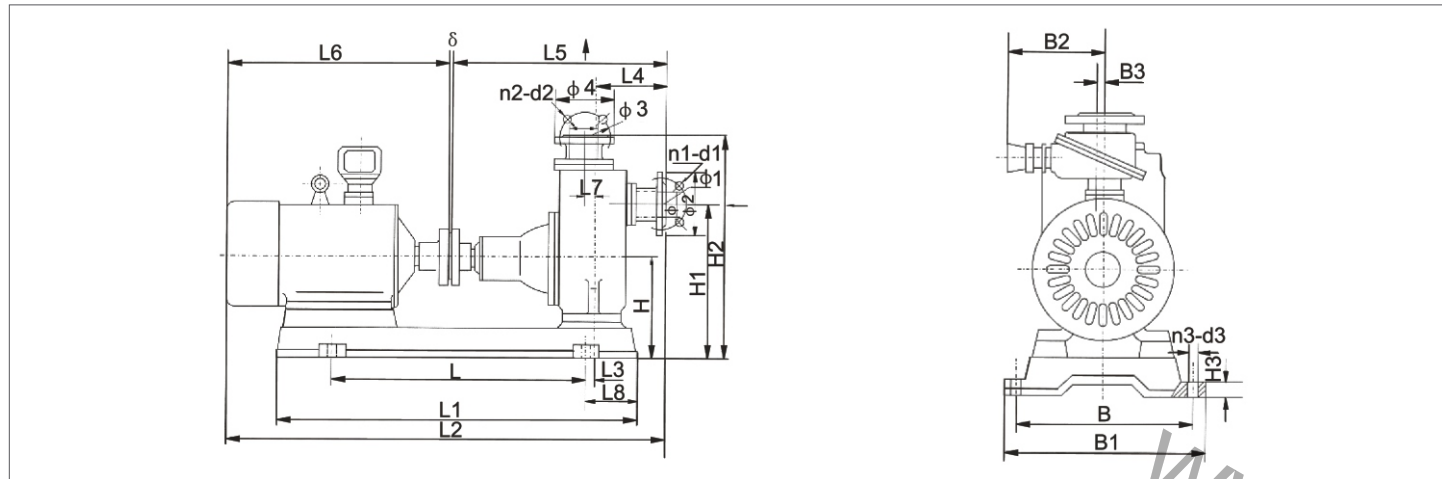
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
100ZX100-40	100	27.8	40	6	2900	1.8	16.3	22	100	100
100ZX100-65	100	27.8	65	6	2900	1.8	27.7	30	100	100

安装尺寸图 Installation Dimensions Drawing

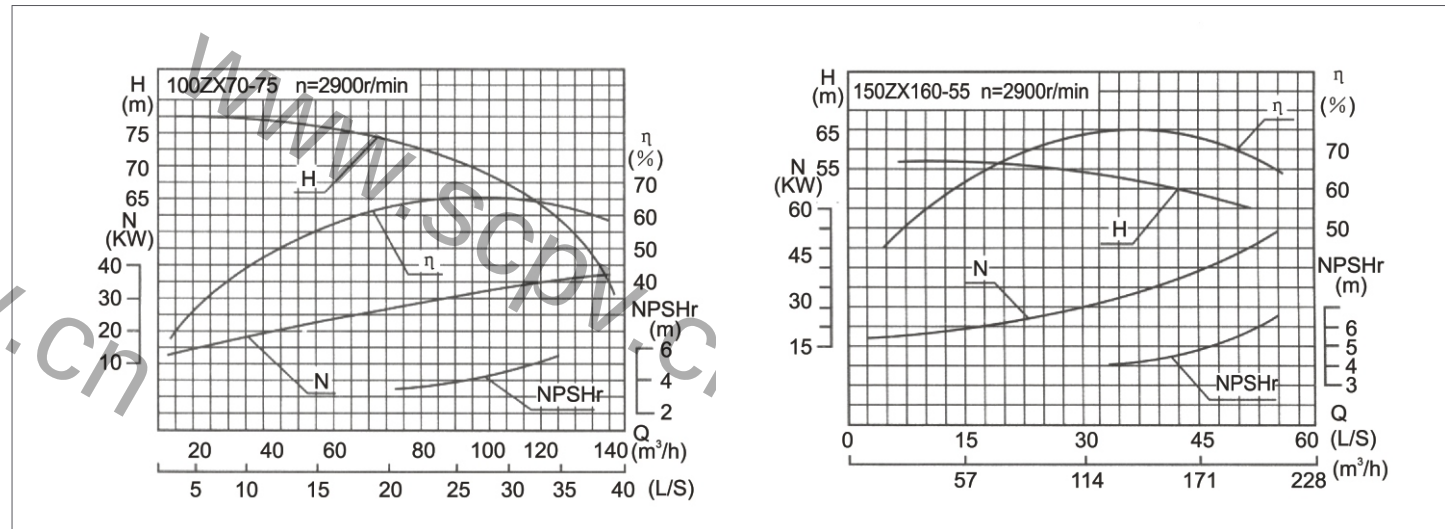


安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
100ZX100-40	Y180M-2	22	660	1060	1392	115	215	647	743	重合 Polymerization	200	2	320	490	710	25	460	510	240	12	170	210	170	210	8-18	8-18	4-18
100ZX100-65	Y200L1-2	30	780	1320	1566	116	230	743	820	重合 Polymerization	270	3	335	555	785	30	546	596	290	14	180	215	180	215	8-18	8-18	4-19

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of ZX Pumps

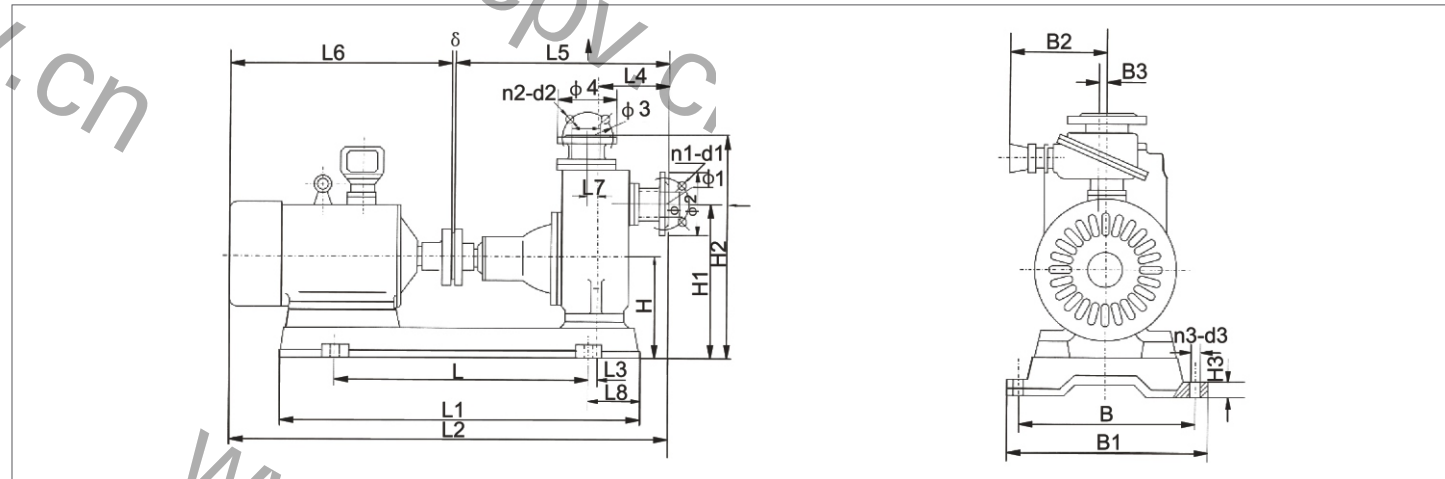
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
100ZX70-75	70	19.4	75	6	2900	1.8	24.2	30	100	100
150ZX170-55	170	47.2	55	5	2900	1.8	39.2	45	150	150

安装尺寸图 Installation Dimensions Drawing

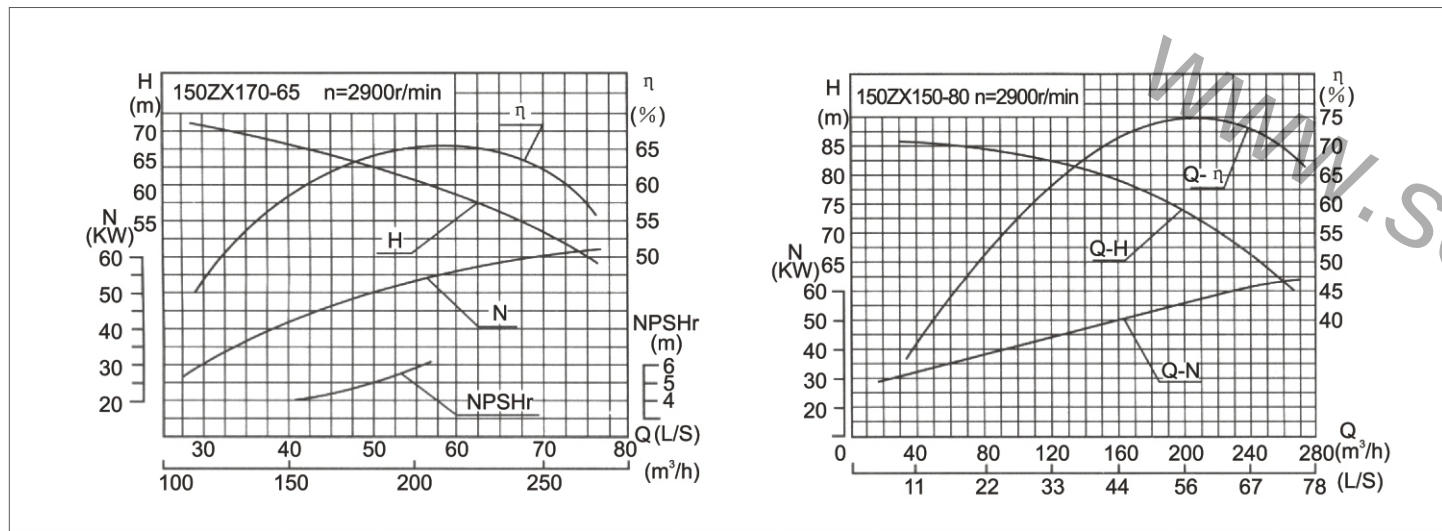


安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ 1	φ 2	φ 3	φ 4	n1-d1	n2-d2	n3-d3
	型号	功率																									
泵型号	Type	kw																									
100ZX70-75	Y200L1-2	30	780	1320	1566	116	230	743	820	重合 Polymerization	270	3	335	555	785	30	546	596	290	14	180	215	180	215	8-18	8-18	4-19
100ZX160-55	Y225M-2	45	950	1450	1788	30	360	900	885	重合 Polymerization	250	3	390	760	990	30	560	620	290	重合 Polymerization	240	280	180	215	8-23	8-18	4-19

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of ZX Pumps

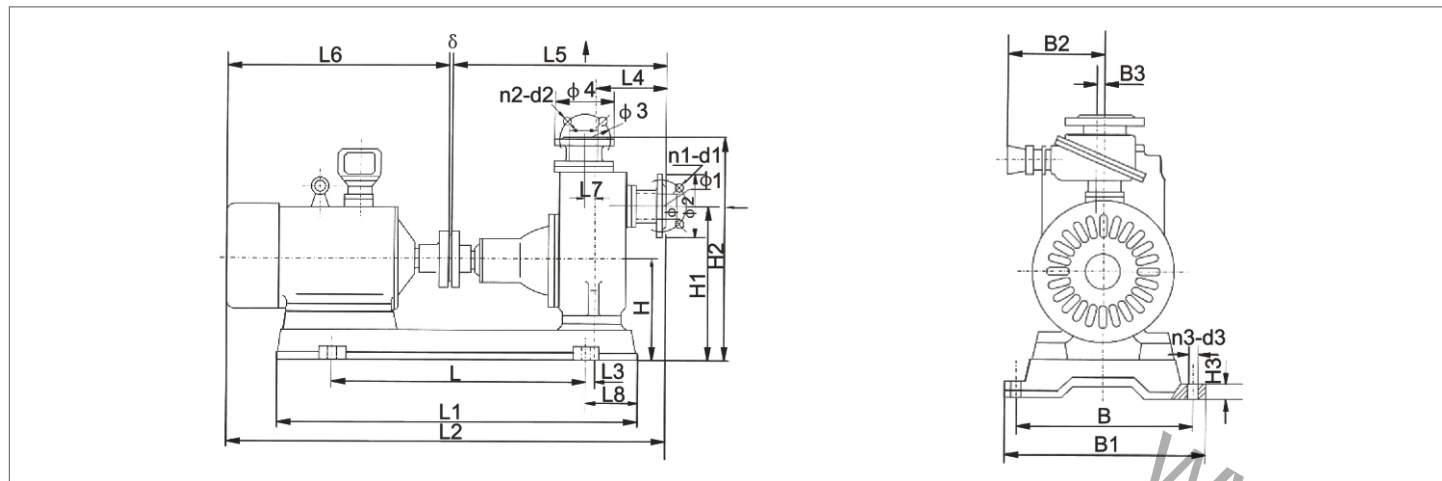
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
150ZX170-65	170	47.2	65	5	2900	1.3	46.3	55	150	150
150ZX160-80	160	44.4	80	5	2900	1.2	53.6	55	150	150

安装尺寸图 Installation Dimensions Drawing

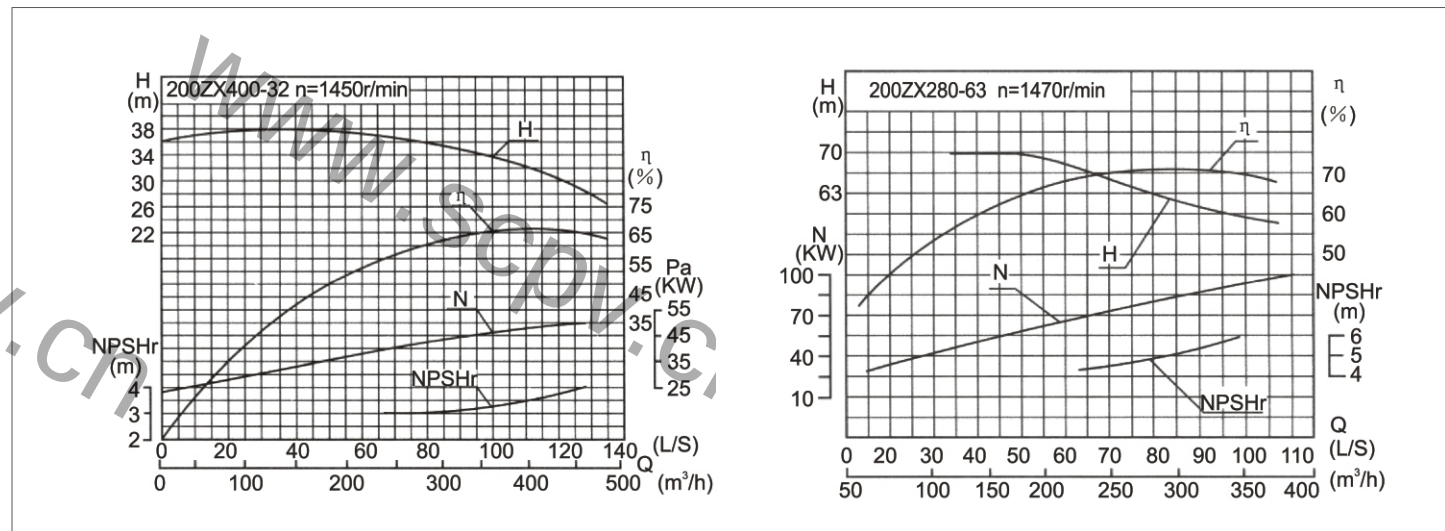


安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
150ZX170-65	Y250M-2	55	950	1500	1853	91	360	900	950	重合	275	3	390	760	990	30	650	700	290	重合	240	280	180	215	8-23	8-18	4-19
150ZX150-80	Y250M-2	55	950	1500	1853	91	362	900	950	重合	275	3	390	760	990	30	650	700	290	重合	240	280	180	215	8-23	8-18	4-19

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of ZX Pumps

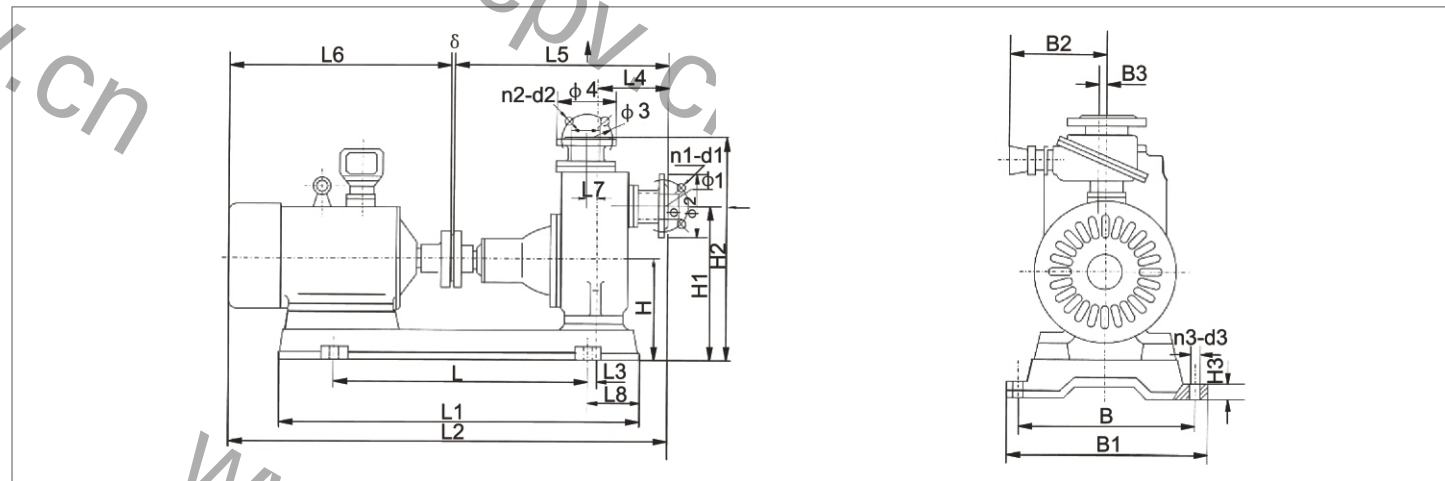
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
200ZX400-32	400	111.1	32	5	1450	2	52.1	55	200	200
200ZX280-63	280	77.8	63	5	1450	1.5	73.9	90	200	200
200ZX350-65	350	97.2	65	5	1450	1.5	97.2	110	200	200

安装尺寸图 Installation Dimensions Drawing

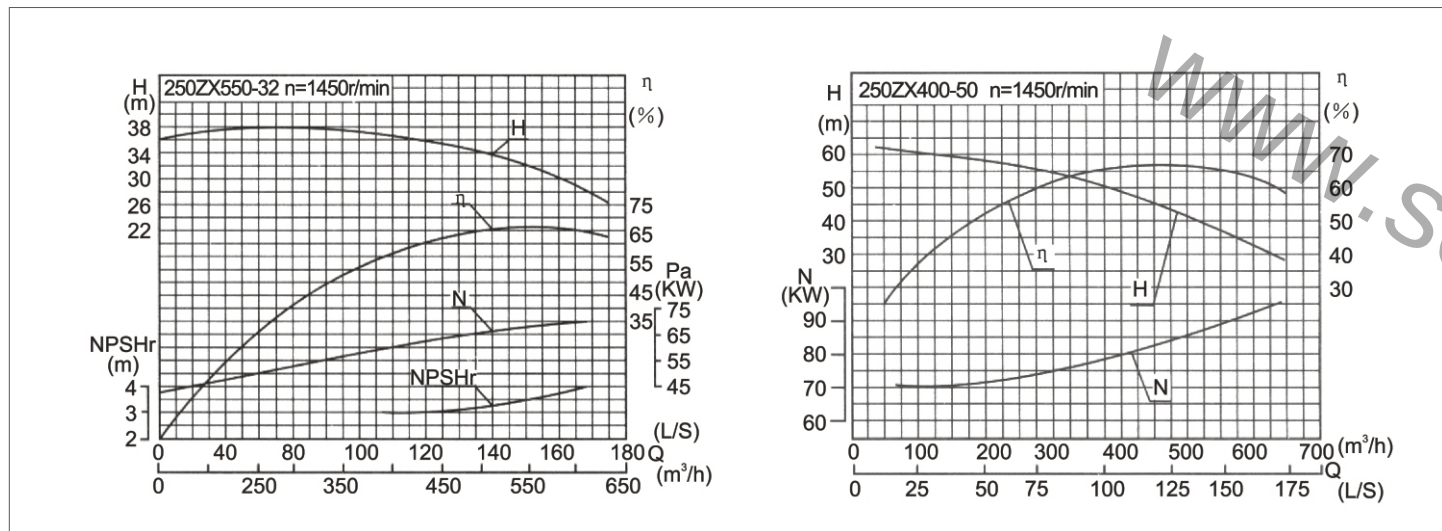


安装尺寸表 Installation Dimensions

Type	电机Power 		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ 1	φ 2	φ 3	φ 4	n1-d1	n2-d2	n3-d3
	型号 Type	功率 kw																									
泵型号																											
200ZX400-32	Y250M-2	55	900	1620	2083	165	470	1127	953	重合 Poly- me- rization	360	3	440	800	1170	30	710	770	290	30	280	315	280	315	8-18	8-18	4-25
200ZX280-63	Y280M-4	90	1000	1860	2242	210	430	1180	1060	重合 Poly- me- rization	430	2	500	900	1220	40	760	840	330	22	295	335	240	280	8-23	8-23	4-25
200ZX350-65	Y315S-4	110	1000	1860	1452	230	430	1180	1270	重合 Poly- me- rization	430	2	535	935	1255	40	760	840	330	22	295	335	240	280	8-23	8-23	4-25

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing、Table of ZX Pumps

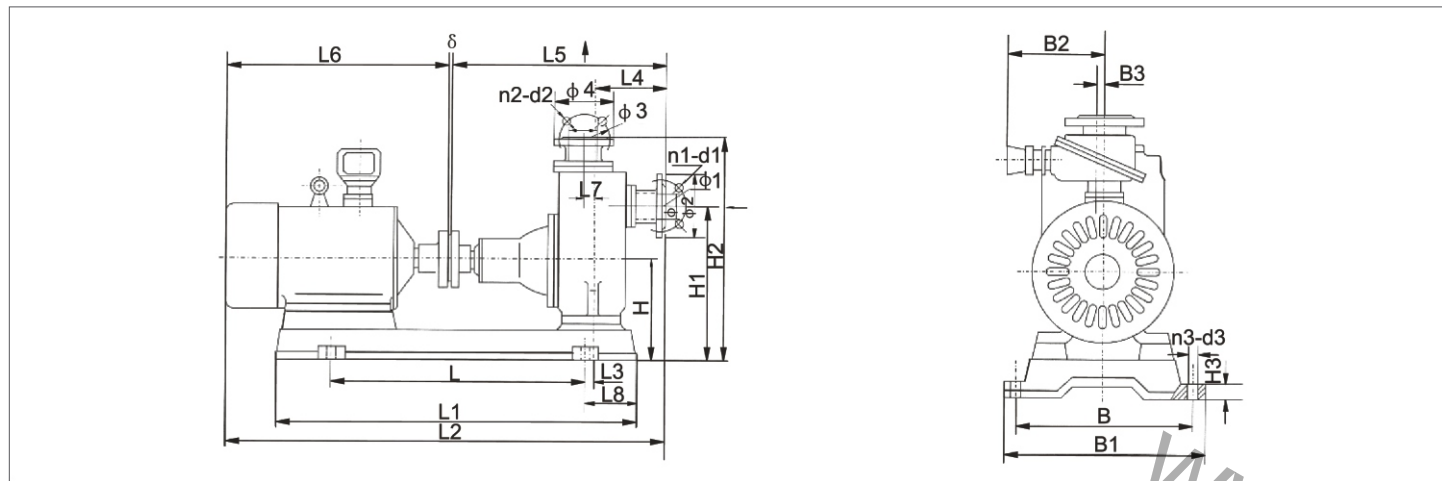
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
250ZX550-32	550	152.8	32	5	1450	2	72.3	75	250	250
250ZX400-50	400	111.1	50	5	1450	2	80	90	250	250

安装尺寸图 Installation Dimensions Drawing

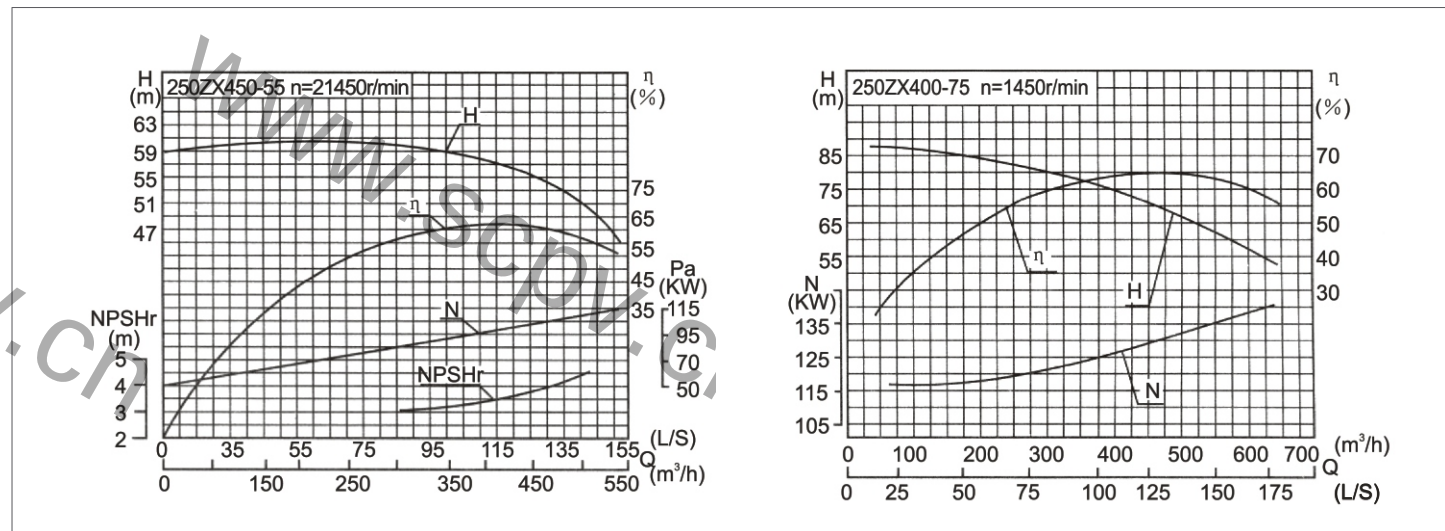


安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
250ZX550-32	Y28S-4	75	1000	1860	2628	195	875	1604	1031	重合	430	3	470	1110	1290	30	760	840	330	35	335	370	335	370	12-18	12-18	4-25
250ZX400-50	Y280M-4	90	1000	1860	2604	240	792	1542	1060	重合	430	2	500	1110	1300	40	760	840	330	25	350	390	350	390	12-23	12-23	4-25

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing、Table of ZX Pumps

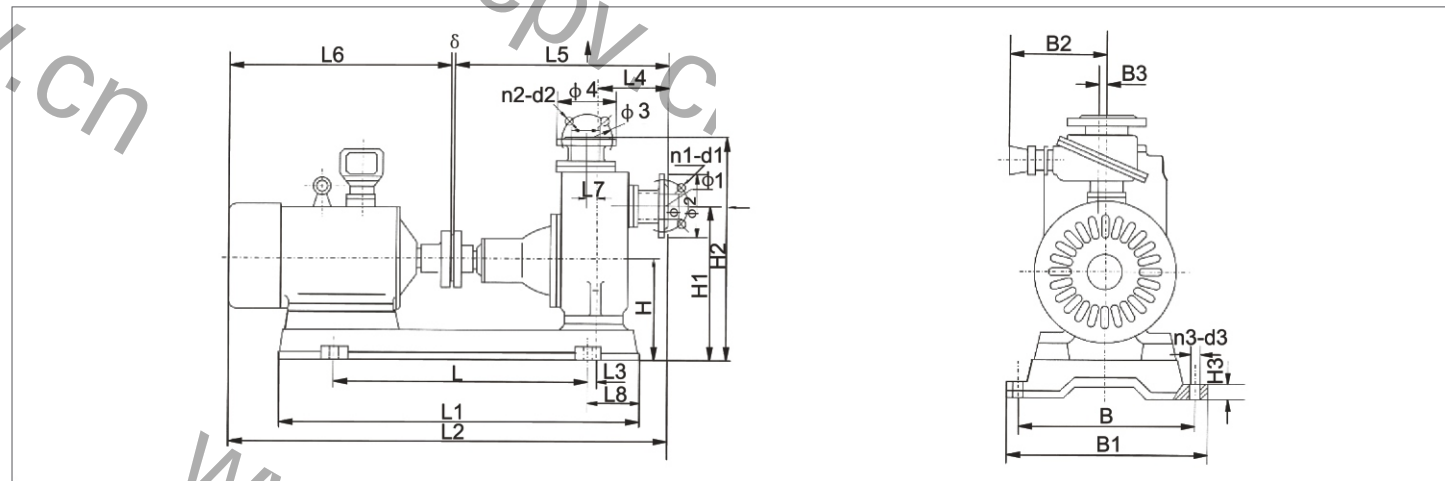
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
250ZX450-55	450	125	55	5	1450	2	102.1	110	250	250
250ZX400-75	400	111.1	75	5	1450	1.5	125.6	132	250	250

安装尺寸图 Installation Dimensions Drawing

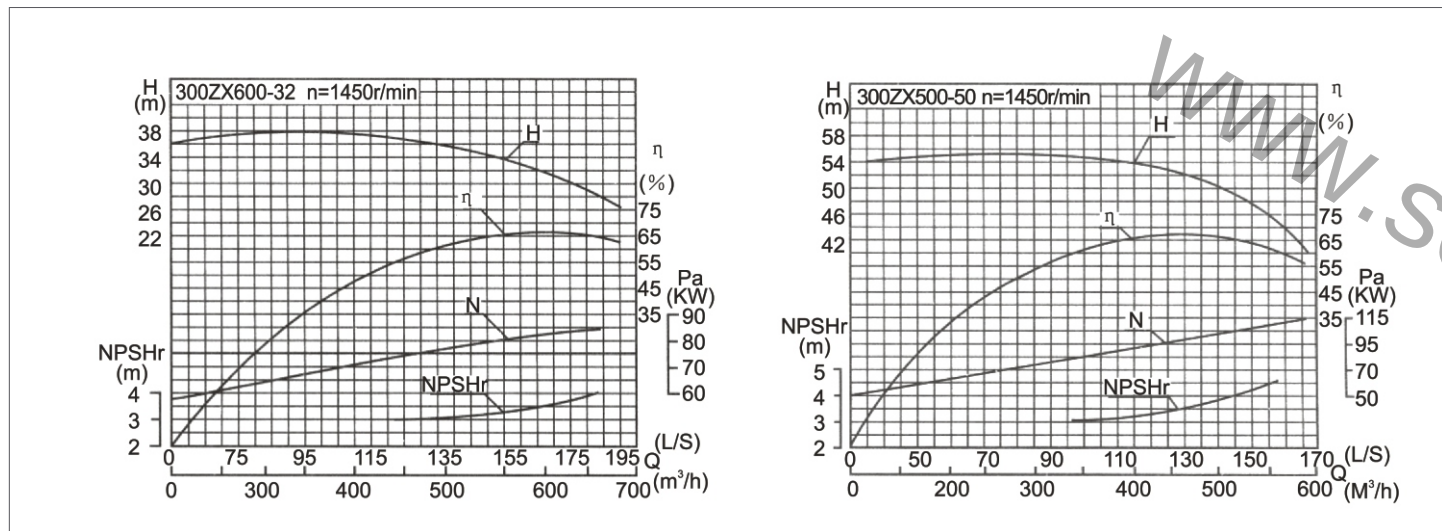


安装尺寸表 Installation Dimensions

Type	电机Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
250ZX450-55	Y315S-4	110	1200	2000	2814	210	792	1542	1270	重合	400	2	500	1110	1300	40	900	980	400	25	350	390	350	390	12-23	12-23	4-25
250ZX400-75	Y315M-4	132	1200	2000	3000	195	800	1647	1350	重合	400	3	550	1150	1420	40	900	980	400	24	350	390	350	390	12-23	12-23	4-25

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of ZX Pumps

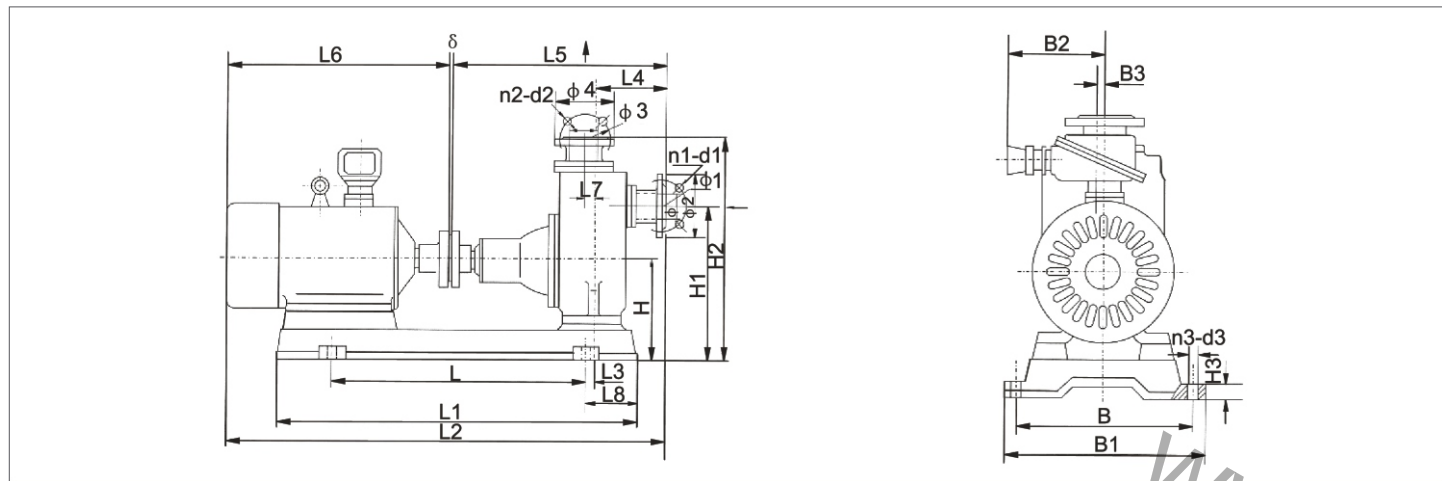
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量 Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
300ZX600-32	600	166.7	32	5	1450	2	79.2	90	300	300
300ZX500-50	500	138.9	50	5	1450	2	104.6	110	300	300

安装尺寸图 Installation Dimensions Drawing

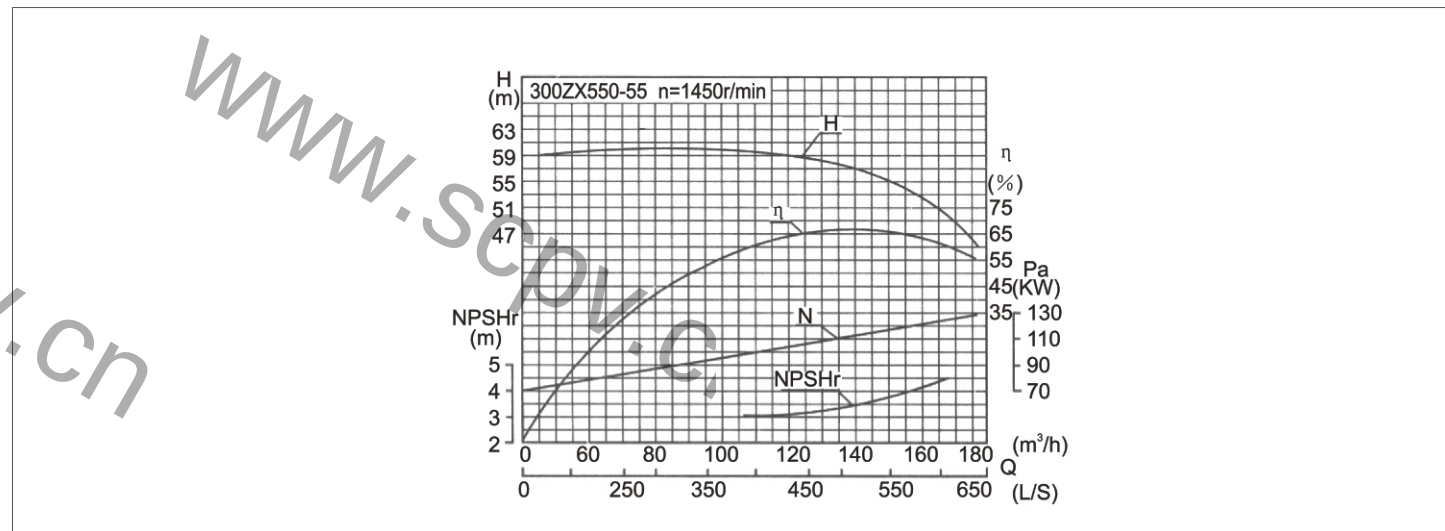


安装尺寸表 Installation Dimensions

Type	电机 Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
300ZX600-32	Y280M-4	90	1000	1860	2808	195	995	1724	1081	重合	430	3	470	1230	1330	30	760	840	330	35	395	435	395	435	12-23	12-23	4-25
300ZX500-50	Y315S-4	110	1200	2000	2962	195	890	1690	1270	重合	400	2	550	1210	1440	40	900	980	400	30	400	440	400	440	12-23	12-23	4-25

ZX型泵性能曲线图、性能参数表及安装尺寸图表 Performance Curve, Performance Parameters Table and Installation Dimensions Drawing, Table of ZX Pumps

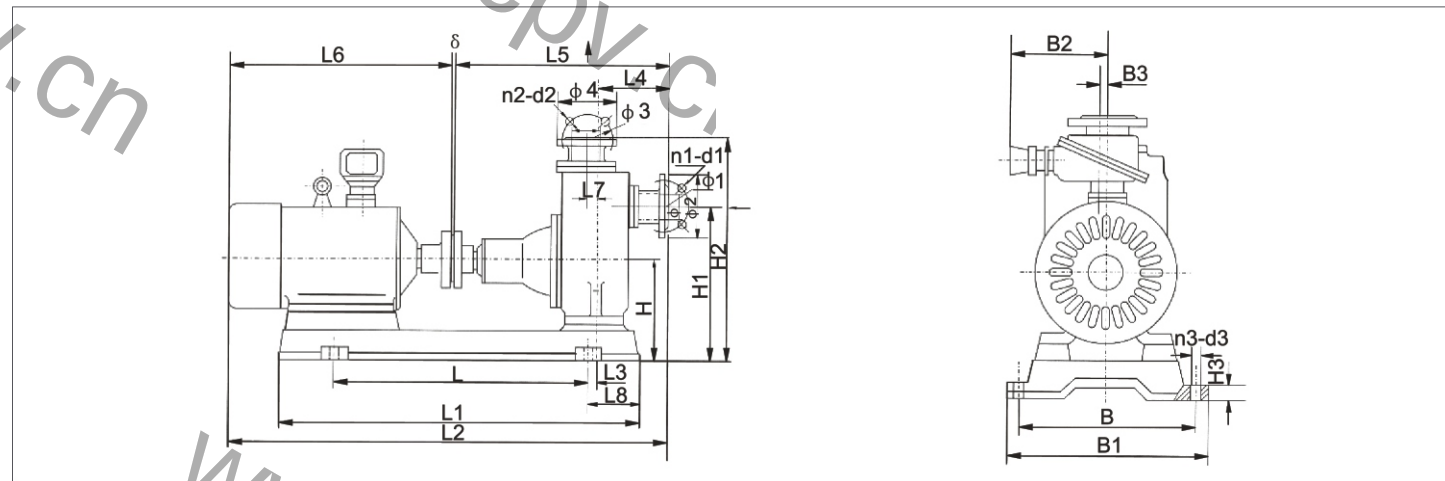
性能曲线图 Performance Curve



性能参数表 Performance Parameters

Type	流量 Q Capacity		Head (m)	Suction head (m)	r/min Speed	Self-suction capability Min/5m	功率 Power		泵口径 Pump caliber (mm)	
型号	m³/h	L/S	扬程	吸程	转速	自吸性能	轴功率	电机功率	吸入 suction	排出 Exhaust
300ZX550-55	550	152.8	55	5	1450	2	117.6	132	300	300

安装尺寸图 Installation Dimensions Drawing



安装尺寸表 Installation Dimensions

Type	电机 Power		L	L1	L2	L3	L4	L5	L6	L7	L8	δ	H	H1	H2	H3	B	B1	B2	B3	φ1	φ2	φ3	φ4	n1-d1	n2-d2	n3-d3
泵型号	型号	功率 kw																									
300ZX550-55	Y315M-4	132	1200	2000	3042	170	890	1690	1350	重合	400	2	550	1210	1440	40	900	980	400	30	400	440	400	440	12-23	12-23	4-25

自吸泵管路摩擦损失表 Table of Friction Loss of Self-Priming Pump Pipeline

自吸泵管路摩擦损失表 Table of Friction Loss of Self-Priming Pump Pipeline

管径 Pipe diameter		流量 (L/S) Flow																
(mm)	1	2	4	6	8	10												
25	3.27	13.0																
40	3.5	14	15															
50	0.8	3.1	13	29														
65		0.8	3.2	7.1	13	20		40	50									
80		0.4	1.6	3.3	5.9	9.6			60								70	
100			0.4	0.8	1.3	2.1											80	90
125				0.23	0.4	0.63												100
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		
200							0.13	0.26	0.37	0.53	0.93	1.5	2.1	2.9	3.7	4.7		
250								0.07	0.12	0.18	0.30	0.48	0.68	0.93	1.2	1.5		
300										0.07	0.12	0.19	0.27	0.37	0.49	0.61		

每100m直管损失米数以新铸铁管为标准旧管加倍
Lost meters per 100m straight pipe are subject to the new cast iron pipe; double for the old pipe.

阀及弯管折合直管长度(每个)
Valve and bend converted in straight pipe length (each)

种类 Kind	折合管径倍数 Multiple of converted pipeline diameter	备注 Note
全开闸阀 Full-open gate valve	15	未畅开加倍 Double for not opening fully
标准弯管 Standard bend	25	
逆止阀 Non-return valve	100	
底阀 Foot valve	100	部分堵塞加倍 Double for jamming partly

注：例如100mm直径管，底阀折合100倍直径等于100×100=10000mm=10m直管长度。假定流量为8L/S查上表，直管每100m损失1.3米，则10m损失0.13m，即一个100mm底阀，流数为8L/S时，则损失扬程0.13m。

Note: Take the 100mm-diameter pipe for example, the diameter of foot valve in 100 times is: 100×100=10000mm=10m long of the straight pipe. Given that the flow is 8L/S (see the above table) and 1.3m is lost for each 100m of the straight pipe, then 0.13m will be lost for 10m, that is 0.13m head will be lost for a 100mm foot valve when the flow is 8L/S.

一定管径之最大流量限制
Max. flow limit for a certain pipeline diameter

管径直径 Pipeline diameter (mm)	最大流量 Max. Flow (L/S)	最大流速 Max. flow speed (m/s)	管径直径 Pipeline diameter (mm)	最大流量 Max. Flow (L/S)	最大流速 Max. flow speed (m/s)
25	1	2.04	125	30.0	2.44
40	2.5	2.20	150	43.0	2.45
50	4.17	2.12	175	60.0	2.49
65	6.67	2.01	200	83.3	2.69
80	10.0	2.26	250	133.3	2.72
100	18.4	2.33	300	192.0	2.72

超过此限使管路损失显著增加。
The pipeline loss will increase noticeably when beyond the limit.

国内外主要材料牌号对照及化学成份表

Domestic & Foreign Main Material Codes Comparison and Their Chemical Composition Table

	中国牌号 Chinese Trademark	美国 AISI U.S.A	美国 ASTM U.S.A	日本 JIS Japan	中国代号 GB2100 Chinese code	元素化学成份(%) Chemical composition of elements									
						C	P	S	Si	Cr	Mn	Ni	Mo	Ti	N
灰铸铁 Gray Cast Iron	HT200		CL30	FC20		3.4~3.6	≤0.15	≤0.15	1.8~2.5		0.5				
	HT250		CI35, 40	FC25		3.2~3.4	≤0.15	≤0.10	1.6~1.9		0.5~0.8				
	球铁 Nodular Castiron	QT400	60~40~18	FCD40		3.4~3.8	≤0.10	≤0.04	2.2~3.0		≤0.4				
铸钢 Cast Steel	ZG15					0.12~0.19	≤0.035	≤0.035	0.17~0.37	≤0.25	0.5~0.8	≤0.25			
	ZG230-450					≤0.3	≤0.4	≤0.04	≤0.5		≤0.9				
马氏体 不锈钢 Martensitic Stainless Steel	1Cr13	410	410	SUS410	101	≤0.15	≤0.04	≤0.03	≤0.10	11.5~13.5	≤0.75				
	2Cr13	420	420	SUS420	102	0.3~0.4	≤0.04	≤0.03	≤0.10	12~14	≤1.0	≤0.75			
奥氏体 不锈钢 Austenitic Stainless Steel	1Cr18Ni9	302		SUS302	303	≤0.12	≤0.045	≤0.03	≤0.75	17~19	0.8~2.0	8~10			≤0.1
	1Cr18Ni9Ti				305	≤0.12	≤0.035	≤0.03	≤0.15	17~19	0.8~2.0	8~11		≈0.8	
	0Cr18Ni9	304	304	SUS304	302	≤0.08	≤0.045	≤0.03	≤0.15	18~20	0.8~2.0	8~10.5		≈0.8	≤0.1
	0Cr18Ni9Ti				304	≤0.08	≤0.040	≤0.03	≤0.15	17~20	0.8~2.0	8~11		≈0.7	
	00Cr18Ni9	304L	304L	SUS304L		≤0.03	≤0.045	≤0.03	≤0.75	18~20	0.8~2.0	8~12			≤0.1
	1Cr18Ni12Mo2 (1Cr17Ni12Mo2)					≤0.12	≤0.045	≤0.03	≤1.5	16~19	0.8~2.0	11~13	2.0~3.0	≈0.7	
	0Cr18Ni12Mo2 0Cr17Ni12Mo2	316	316	SUS316	306	≤0.08	≤0.045	≤0.03	≤1.5	16~18	0.8~2.0	10~14	2.0~3.0		≤0.1
	0Cr18Ni12Mo2 0Cr17Ni12Mo2	316L	316L	SUS316L		≤0.03	≤0.045	≤0.03	≤1.5	16~18	0.8~2.0	10~14	2.0~3.0		≤0.1
	1Cr18Ni12	305	305	SUS305		≤0.12	≤0.045	≤0.03	≤1.5	17~19	0.8~2.0	10.5~13			
	1Cr18Ni12Mo2Ti	316Ti	316Ti		307	≤0.08	≤0.045	≤0.03	≤1.5	16~18	0.8~2.0	10~14	≈0.7	2.0~3.0	≤0.1

- 1、(AISI)为美国钢铁学会标准；ASTM为美国材料与试验学会标准；
AISI is American Iron and Steed Institute Standard;
AISI is American Society of Testing Material Standard;
- 2、国内标准与国外标准在元素化学成份方面稍有差别；
There is little difference in chemical composition of element between domestic;
- 3、本表格选料以中国牌号、中国代号（GB2100）为标准，AISI、ASTM、JIS仅作参考。
Materidin this from coruplies with chinese trademark, chinfese code(gb2100)standard, AISI, ASTM, JIS are only for reference.