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LY系列化工液下泵

LY SERIES API VS4 AND VS5 TYPE OF PUMPS



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LY SERIES LONG LINE SHAFT UNDER-LIQUID PUMP

概 述 Outline

LY系列长轴液下泵属于单级单吸立式泵。是在吸收国外先进技术基础上，根据市场需求，自主设计开发的新型、节能环保产品。泵轴由在泵体和滑动轴承支承。本泵的插入深度可达6m，型谱可以覆盖流量至400m³/h、扬程可至100m的所有范围。适用于输送各种清洁的或污染的介质。

泵的支承部件，轴承及轴的制造依据标准组件的设计原则。因此，这些组件能够用于多种水力设计，通用性较强。

刚性轴的设计保证泵的平稳运行，泵的第一临界速度在泵的运行速度之上，确保泵可以在非常苛刻的工况条件下能平稳运行

泵体是径向剖分结构，从法兰名义口径80mm以上的泵体设计成双蜗壳结构，减少由水力作用引起的径向力和泵的振动。

从电机端看，泵为顺时针旋转。

LY series long-shaft submerged pumps are single stage, single suction vertical pump. Absorbed advanced overseas technology, according to market demands, the new type energy conservation and environmental protection products were designed and developed independently. Pump shaft is supported by casing and sliding bearing. The submergence can be 6m, chart can cover the whole range of pump with capacity up to 400m³/h, and head up to 100m. Liquid can be available for various clean or contaminated fluids.

Production of pump support parts, bearings and shaft are in accordance with standard components design principle, so these parts can be for many hydraulic designs, they are in better universality.

Rigid shaft design ensures stable operation of pump, the first critical velocity is above the pump running speed, this ensures stable operation of pump at rigorous work condition.

Radial split casing, flange with nominal diameter more than 80mm are in double volute design, this reduces radial force and pump vibration caused by hydraulic action.

CW viewed from drive end.

运行参数 Running data

流 量: Q 2-400 m³/h

扬 程: H 5-100 m

工作压力: P 1.6 MPa

工作温度: T -20℃ ~+125℃

插入深度: 可达6m

应用范围及用途: 用于输送中性或有腐蚀性的液体，清洁或内含固体颗粒的液体。

特别适用于: 污水处理、水泥厂、发电厂、石油化工等行业。

Capacity: 2-400 m³/h

Head: 5-100 m

Working pressure: up to 1.6 MPa

Working temperature: -20℃~+125℃

Rotation direction: CW viewed from drive end

Submergence: Up to 6 m

Application and purpose: For neutral or erosive liquid, liquid clean or with solid

Especially for: Sewage treatment, cement plant, power plant, petrochemical and so on.

材料 Material

泵体等铸件及叶轮可以根据介质及工况选用不同的材料，

轴：45#钢或镍铬合金钢

出口及吸入管：20#钢或镍铬合金钢

轴承架：铸铁

电机架：碳钢

Casts like casing and impeller can be selected according to different liquid and work conditions.

Shaft: 45# steel or nickel-chrome alloy steel

Outlet and suction pipe: 20# steel or nickel-chrome alloy steel

Bear support: Cast Iron

Motor stool: Carbon steel

型号意义 Model meaning

LY 40 - 160 - 2

插入深度代号 Code of insert depth

叶轮名义直径 Nominal diameter of the impeller

出口直径 Diameter of the outlet

泵系列代号 Code of pump

LYO—开式叶轮 Open impeller

LYG—夹套保温 Jacket insulation

特点 Characteristics

—使用新研制的水力模型，提高泵的效率。

—采用新型可靠的接轴方式

—采用独有的平衡腔结构

—使用填料密封及冲洗管路结构

—采用新材料和新工艺，提高产品的可靠性，延长泵的维修使用周期

--New hydraulic mould improves pump efficiency

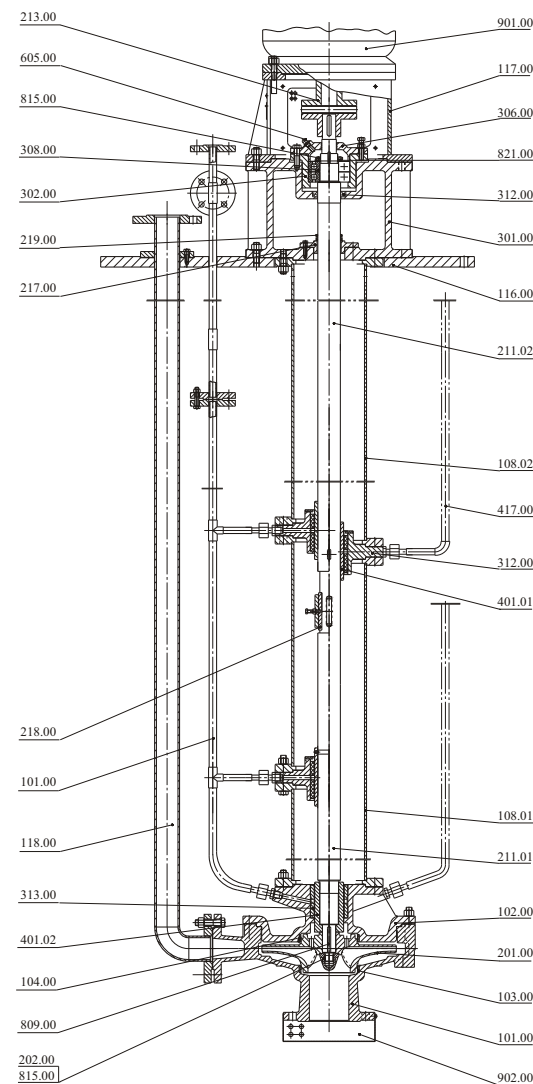
--New and reliable shaft connection method

--Particular balance cavity structure

--Packing seal and flush pipe structure

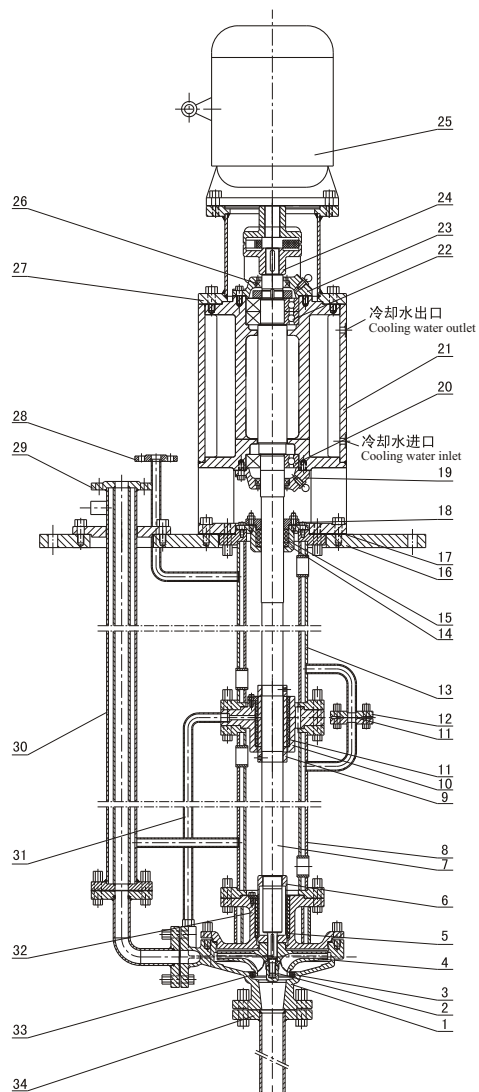
--New material and new crafts, improves reliability of pump, prolongs maintenance and operation period

结构图 Structure drawing



101.00	泵体 Casing
102.00	泵盖 Pump cover
201.00	叶轮 Impeller
301.00	轴承架 Bearing support
217.00	防尘盘 Dust pan
211.01	轴 Shaft
211.02	轴 Shaft
308.00	角接触球轴承 Angular contact ball bearing
117.00	电机架 Motor frame
302.00	轴承体 Bearing body
306.00	轴承压盖 Bearing gland
312.00	滑动轴承体 Sliding bearing
818.00	骨架油封 Skeleton oil seal
219.00	V型环 V-ring
103.00	泵体口环 Pump body ring
104.00	泵盖口环 Pump cover ring
401.01	轴套 Shaft sleeve
402.02	轴套 Shaft sleeve
313.00	轴衬 Shaft lining
213.00	联轴器 Coupling
116.00	底板 Base plate
417.00	冲洗管 Flushing pipe
108.00	出液管 Fluid outlet pipe
108.01	支承管 Supporting tube
108.02	支承管 Supporting tube
605.00	油嘴 Oil mouth
218.00	接轴套 Joint sleeve
814.00	钢丝螺套 Wire threaded sleeve
815.00	锁紧螺母 Lock nut
202.00	叶轮螺母 Impeller nut
811.00	防松垫片 Anti-loose washer
809.00	键 Key
901.00	电机 Motor
902.00	过滤网 Filter

结构图 Structure drawing



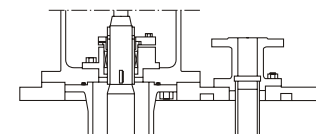
LYG高温液下泵
LYG high temperature liquid pump

1	泵 体 Casing
2	叶轮螺母 Impeller nut
3	泵体口环 Pump mouth ring
4	叶轮 Impeller
5	下轴衬 Lower shaft lining
6	下轴套 Lower shaft tube
7	轴 Shaft
8	下中间管 Lower middle pipe
9	上轴套 Upper shaft tube
10	滑动轴承体 Sliding bearing
11	上轴衬 Upper shaft lining
12	蒸汽法兰 Steam flange
13	上中间管 Upper middle pipe
14	填料箱体 Packing box
15	填 料 Packing
16	底 板 Base plate
17	垫 板 Backing plate
18	填料压盖 Packing gland
19	下轴承压盖 Lower bearing gland
20	深沟球轴承 Deep groove ball bearing
21	轴承架 Bearing support
22	角接触球轴承 Angular contact ball bearing
23	上轴承压盖 Upper bearing gland
24	联轴器 Coupling
25	立式电机 Vertical motor
26	骨架油封 Skeleton oil seal
27	电机架 Motor frame
28	蒸汽管道 Steam pipeline
29	出液管 Fluid outlet pipe
30	保温管层 Pipe insulation layer
31	冲洗管 Flushing pipe
32	泵 盖 Pump cover
33	叶轮口环 Impeller mouth ring
34	下吸管 Lower suction pipe

结构特点 Characteristics of structure

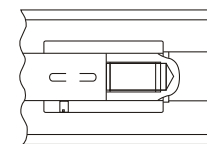
填料密封:

尽管此处不存在泵的进出口压, 但为了防止支撑管内的冲洗液压力过高而从底板溅到大气中, 设置软填料密封是必要的。



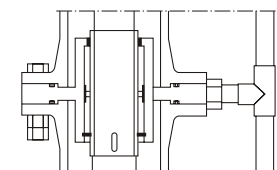
接轴方式:

长轴分成二节或多节加工, 采用一根轴一端车螺纹杆, 另一根轴一端车内螺纹, 两轴通过螺纹连接, 外面通过接轴套筒及联接键固定其位置。这样长轴靠联接键传递扭矩, 螺杆杆传递轴向力。增强了泵轴的同轴度, 降低长轴的加工难度。



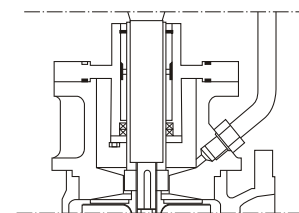
支承方式:

LY系列采用多点支承方式, 液面之上采用角接触球轴承, 液下每根短轴都有滑动轴承支承, 滑动轴承固定在中间支架上, 中间支架与支撑管相连。



平衡腔结构:

泵盖与中间支架构成平衡腔, 在腔体底部设有与大气相通的平衡管, 起到卸压作用, 降低整机的轴向力。同时使颗粒介质从该平衡管流走, 减少颗粒介质向上泄漏进入滑动轴承的可能。在下滑动轴承的下面设有填料密封, 进一步降低颗粒介质向上泄漏的可能。



Packing Seal:

Although there is no pressure at suction and discharge, in case of overpressure of flush fluid to splash to the air from the base, soft packing must be used.

Shaft connections:

Long shaft is machined in two sections or more, end of one shaft screwed rod, the other one is machined with inner screw, two shafts are connected with screws, outside fixed with joint key and shaft bush. Torque is transferred by joint key, thrust force is transferred by screwed rod, this improves coaxiality of the pump shaft, at the same time, make it more easier of machining the long shaft.

Support type:

LY series pumps are adopted multiple-points support, angle-contact ball bearing is used above the liquid, every short shaft under liquid is supported by sliding bearing, sliding bearing is fixed on the middle supporter, with which supporting pipes are connected.

Balance housing structure:

Balance housing is made up of pump casing and middle supporter, there is balance pipe at the bottom of the housing to connected to the air, for releasing pressure and reducing thrust force of the pumpset. At the same time, solid liquid can be passed through the balance pipe to prevent solid liquid leakage up from entering sliding bearing. Under the lower sliding bearing, there is packing seal to prevent solid liquid leakage up again.

冲洗方式 Flush type

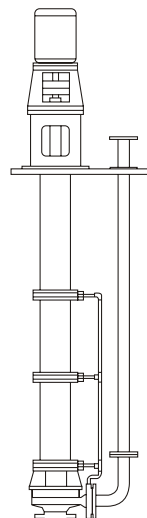
引入清洁的液体冲洗滑动轴承，保证了泵的安全运转。对于不同的介质，有两种方式可以选择。

自冲洗

当泵送介质为清洁介质时，采用此方式进行冲洗。从泵出口法兰引一管路，使冲洗液流向各个滑动轴承，润滑了滑动轴承，带走摩擦副产生的热量，起到降温的作用。

Self-flush

If liquid is clean, this kind of flush will be used. Connect a pipe from discharge flange of pump to every sliding bearings, on one hand, flush liquid lubricates sliding bearings, on the other hand, it takes heat produced by friction, and cools the bearings.

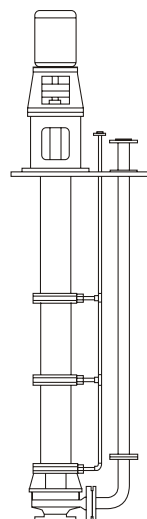


外冲洗

当泵送介质为内含较小颗粒介质时，采用此方式进行冲洗。从外界接一管路，引入清洁的冲洗液冲洗各个滑动轴承，润滑了滑动轴承，带走摩擦副产生的热量，起到降温的作用。同时，避免固体颗粒进入摩擦副中。

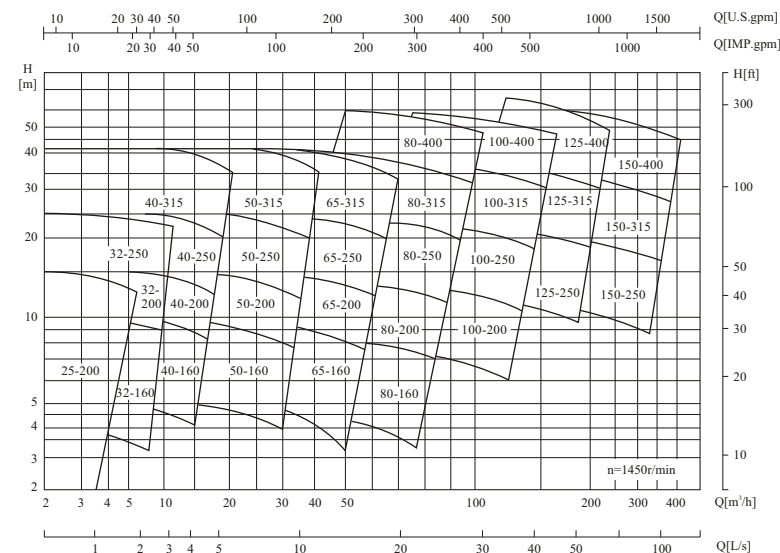
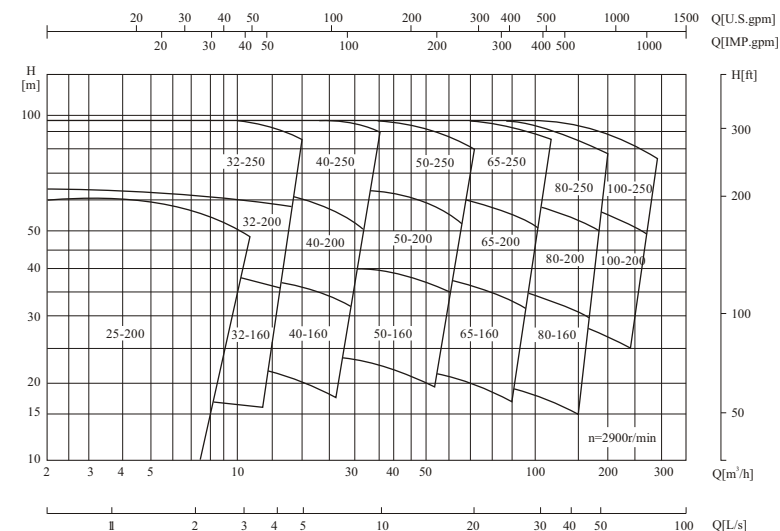
Flush from outside

If liquid with small solid, this flush will be adopted. Connect one pipe from outside, flush all sliding bearings With clean fluid, lubricates bearings, takes heat from friction And cool them, at the same time, avoid solid friction.

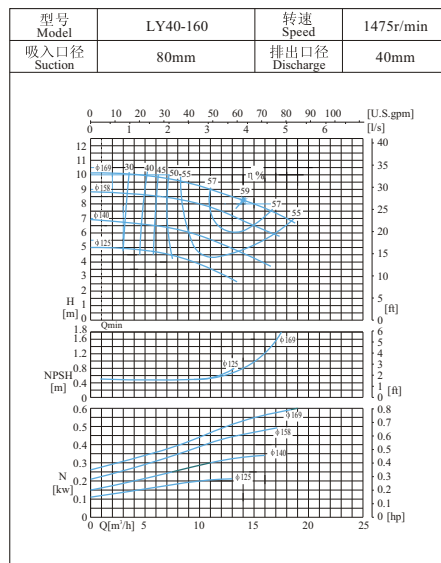
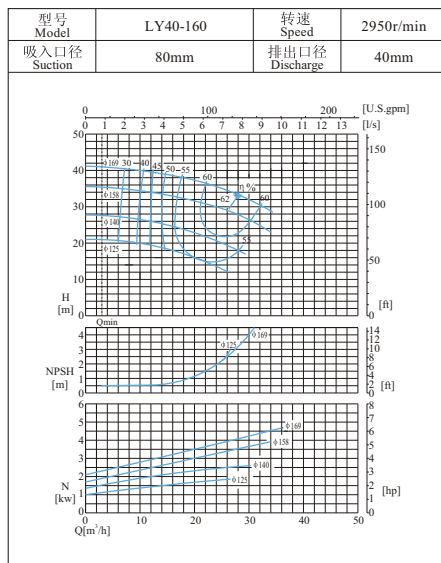
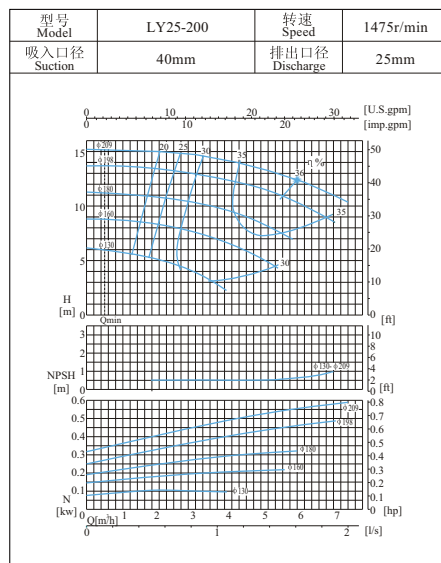
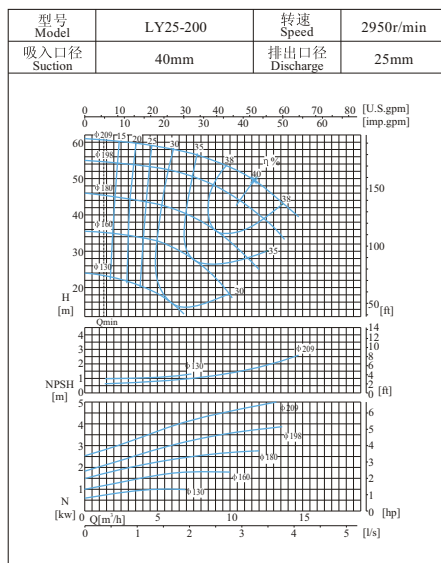


With clean liquid flush sliding bearing, ensures safe operation of pump, two options for different liquids:

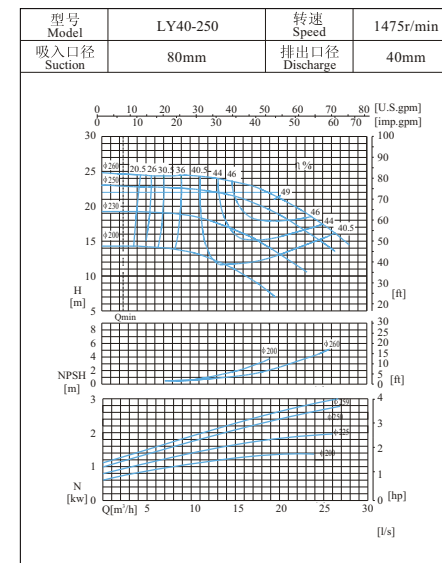
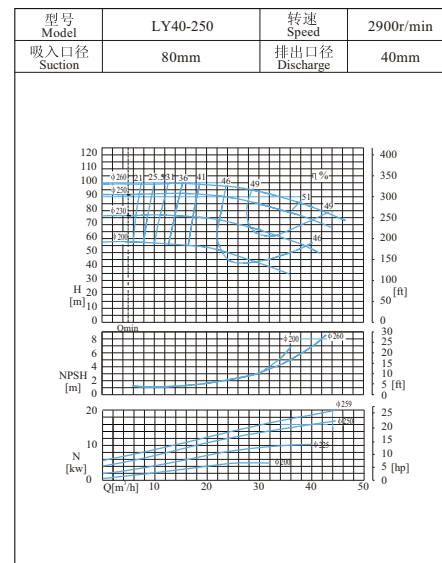
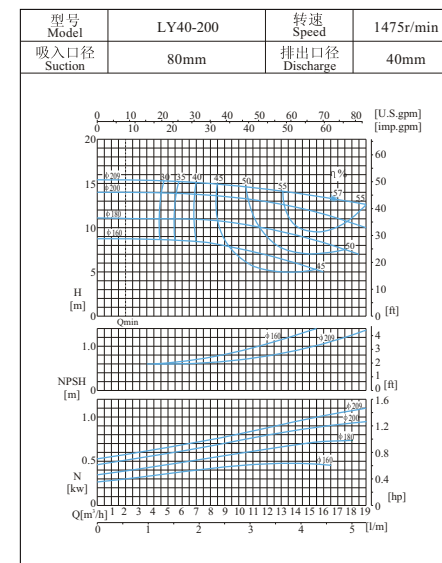
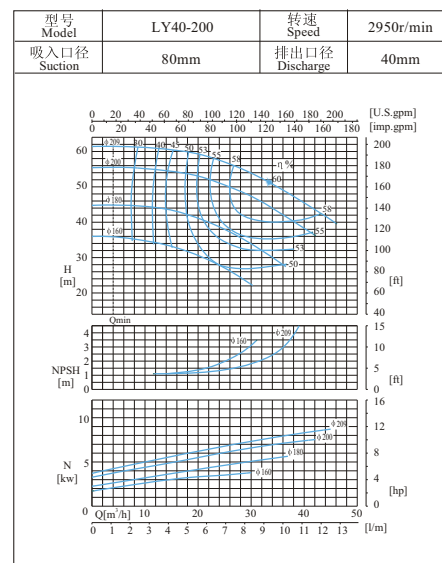
型谱图 Atlas of style



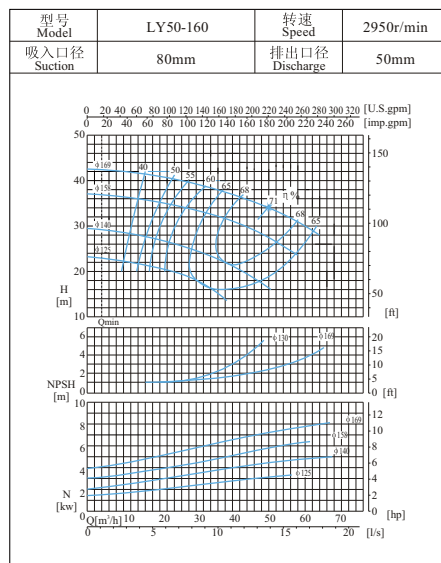
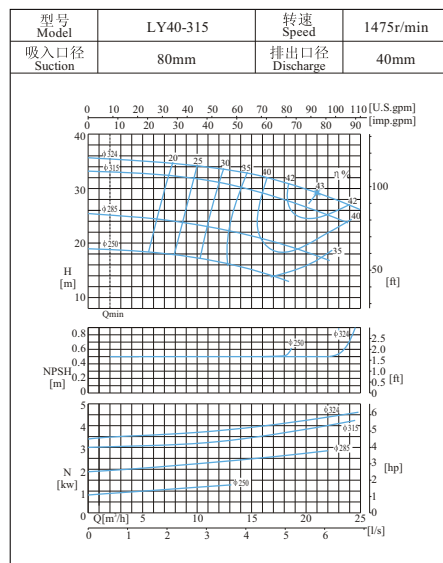
性能曲线图 Performance curve



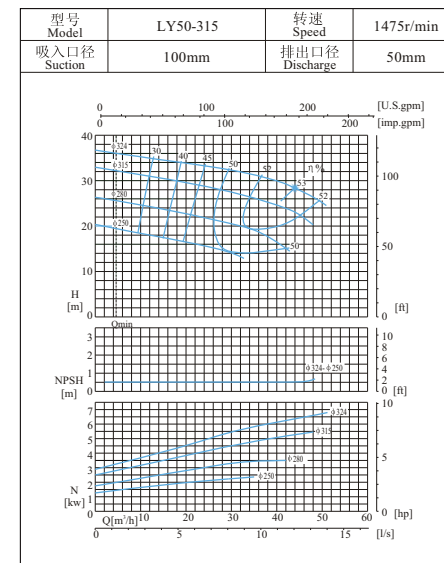
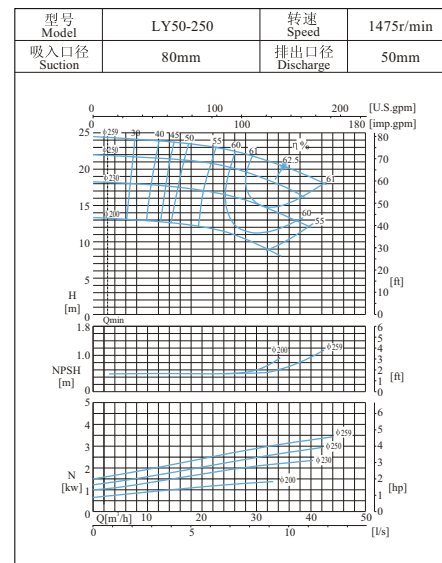
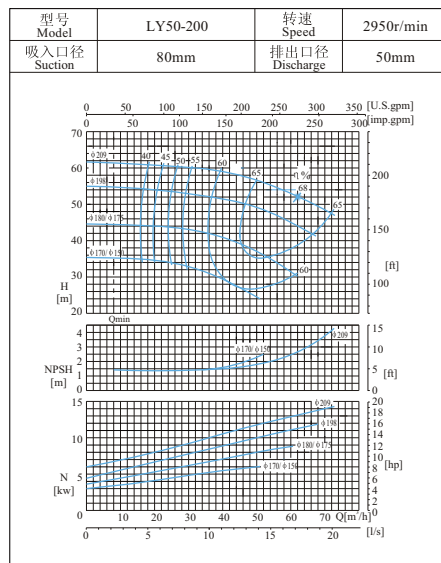
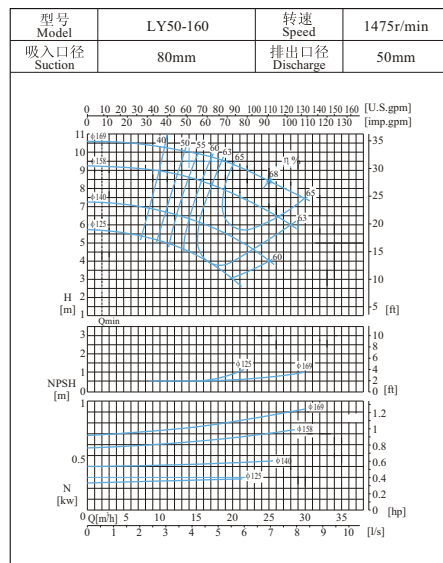
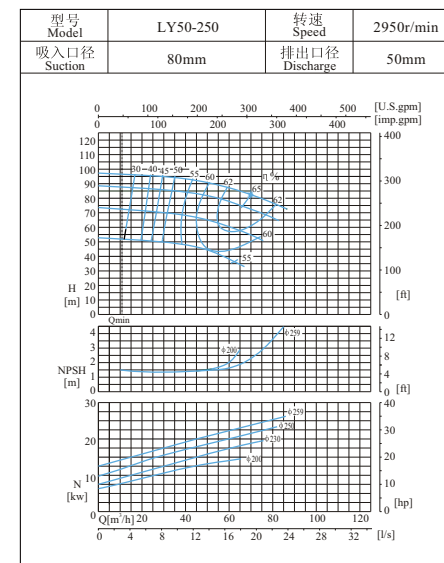
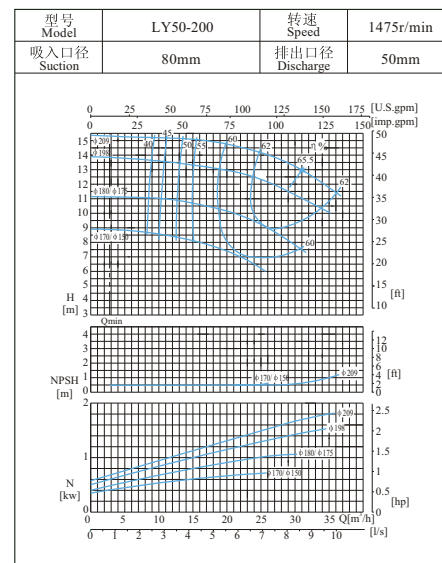
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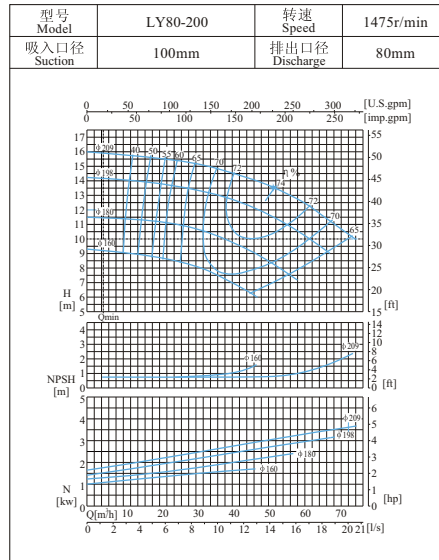
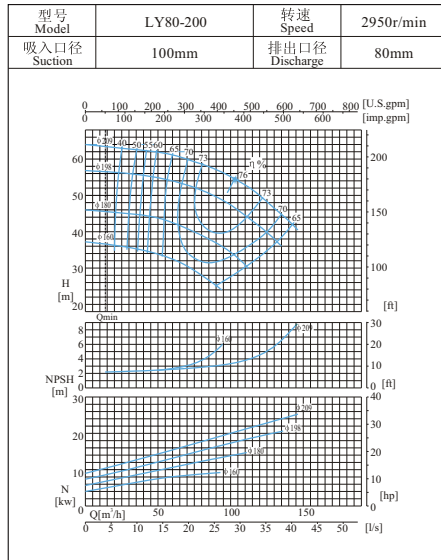
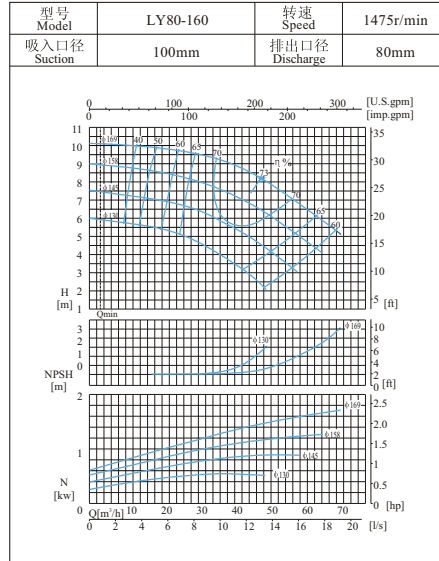
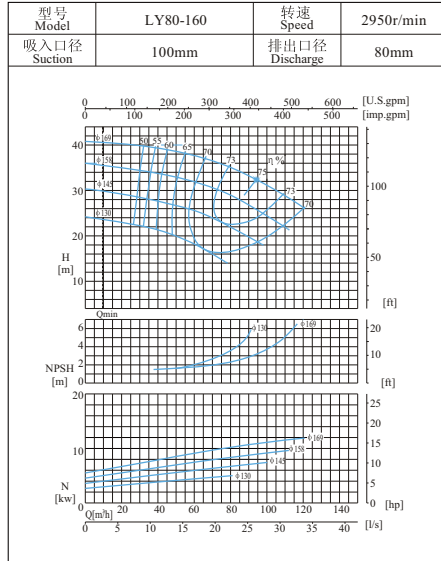
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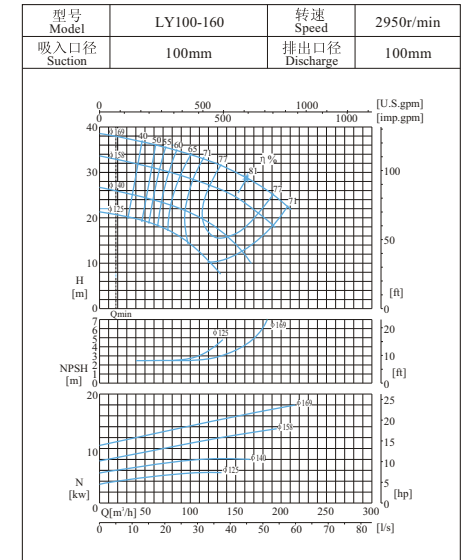
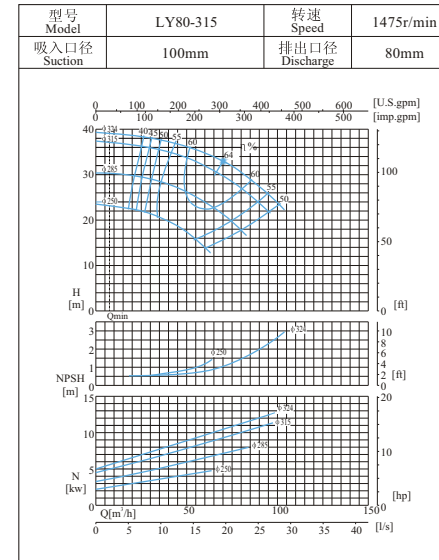
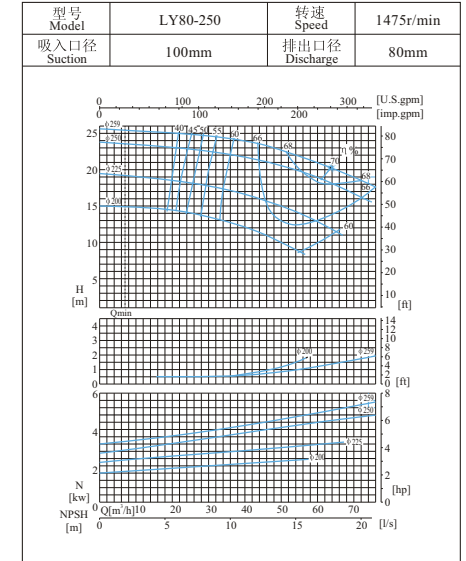
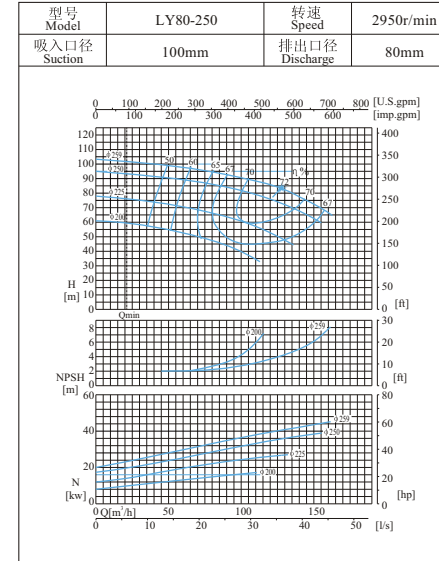
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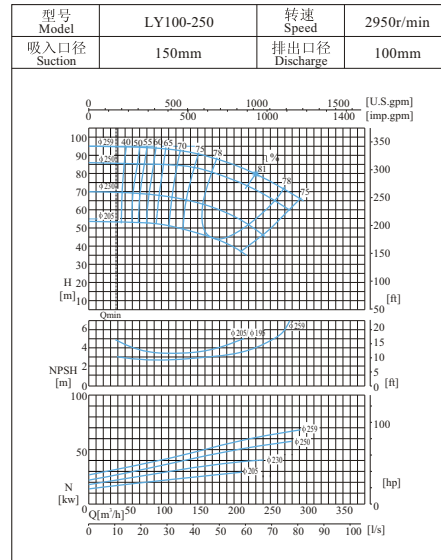
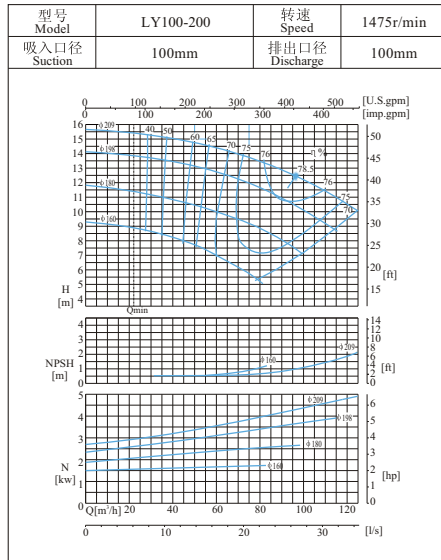
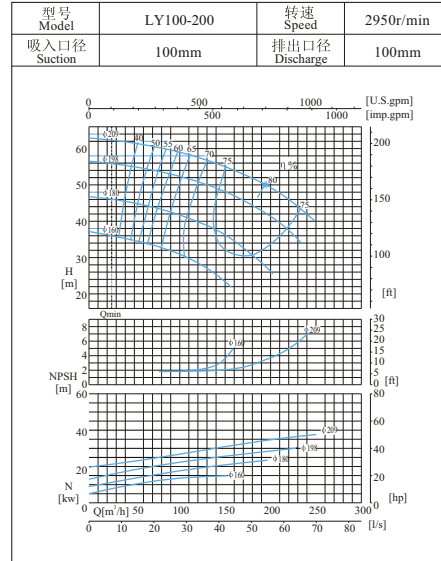
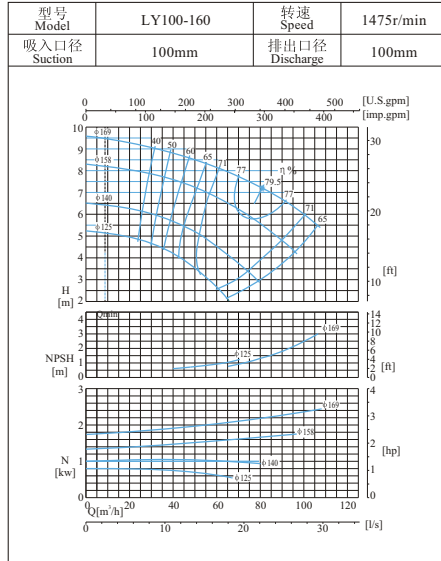
性能曲线图 Performance curve



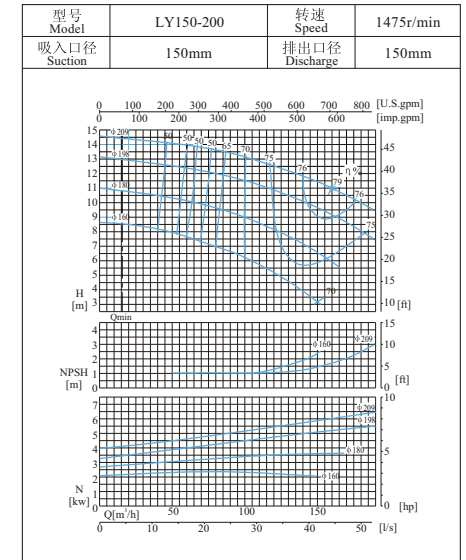
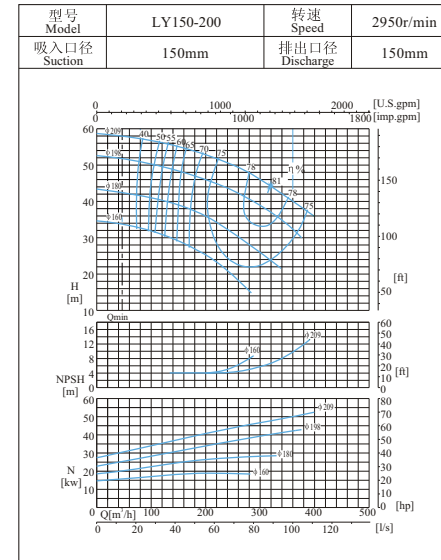
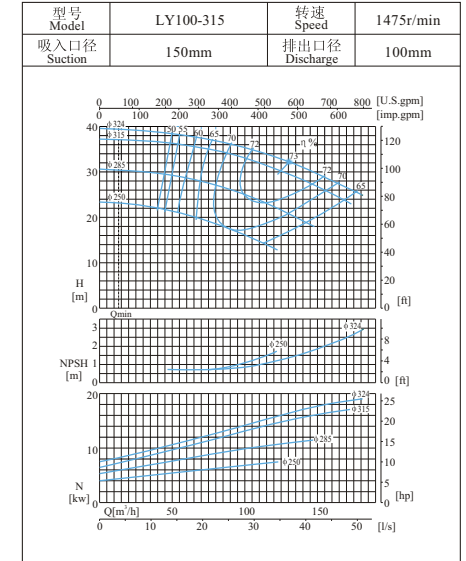
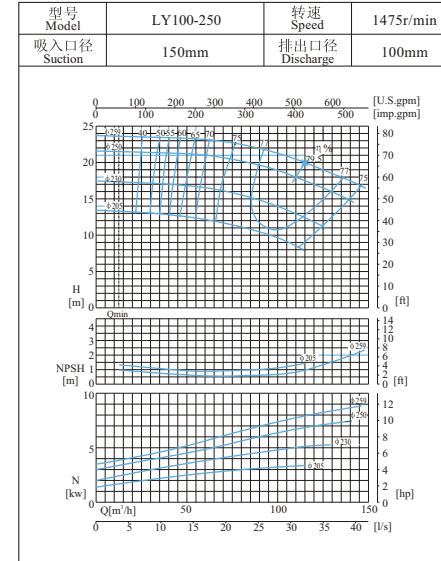
性能曲线图 Performance curve



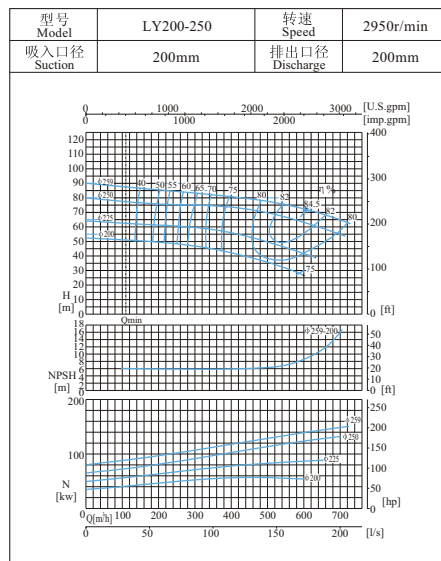
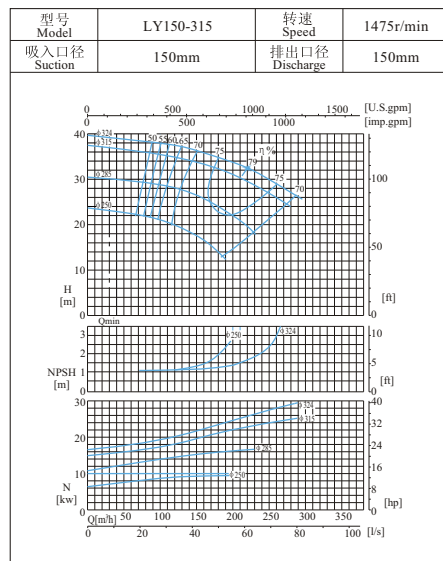
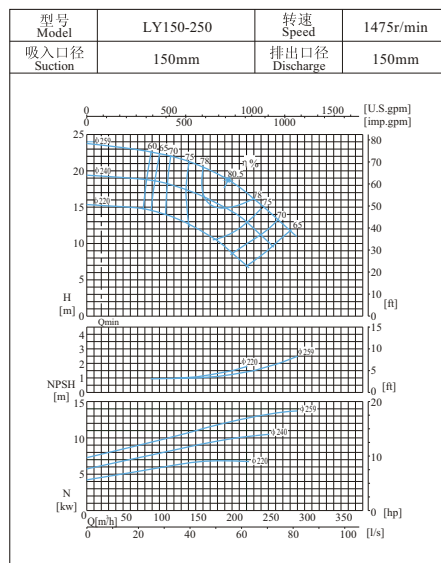
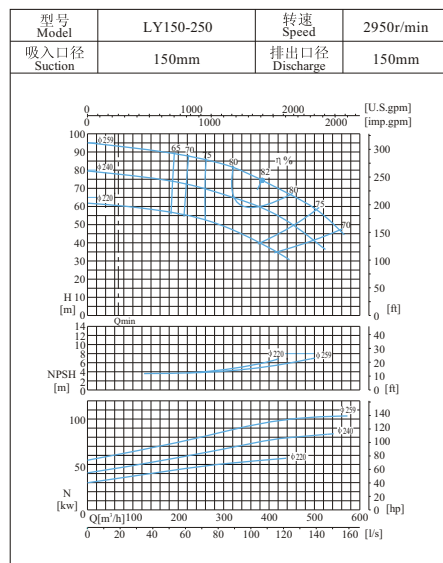
性能曲线图 Performance curve



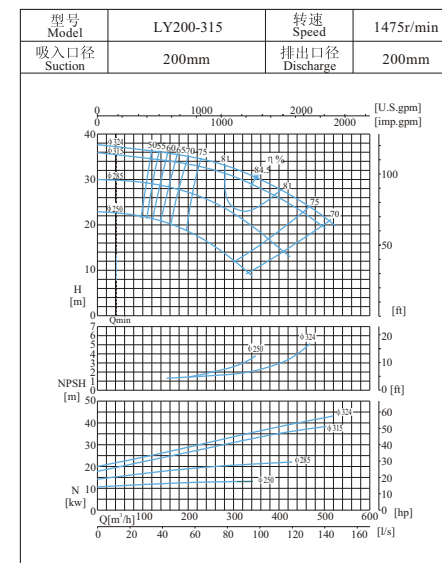
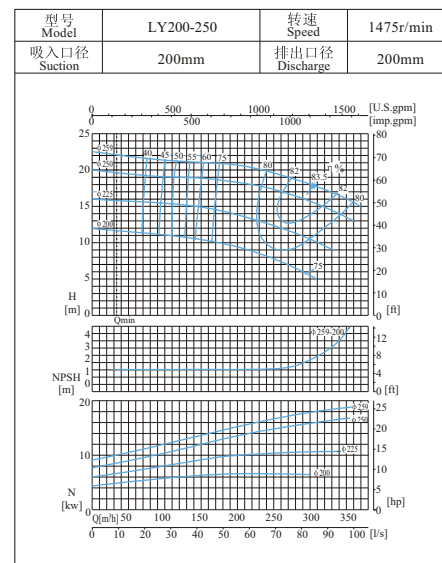
性能曲线图 Performance curve



性能曲线图 Performance curve

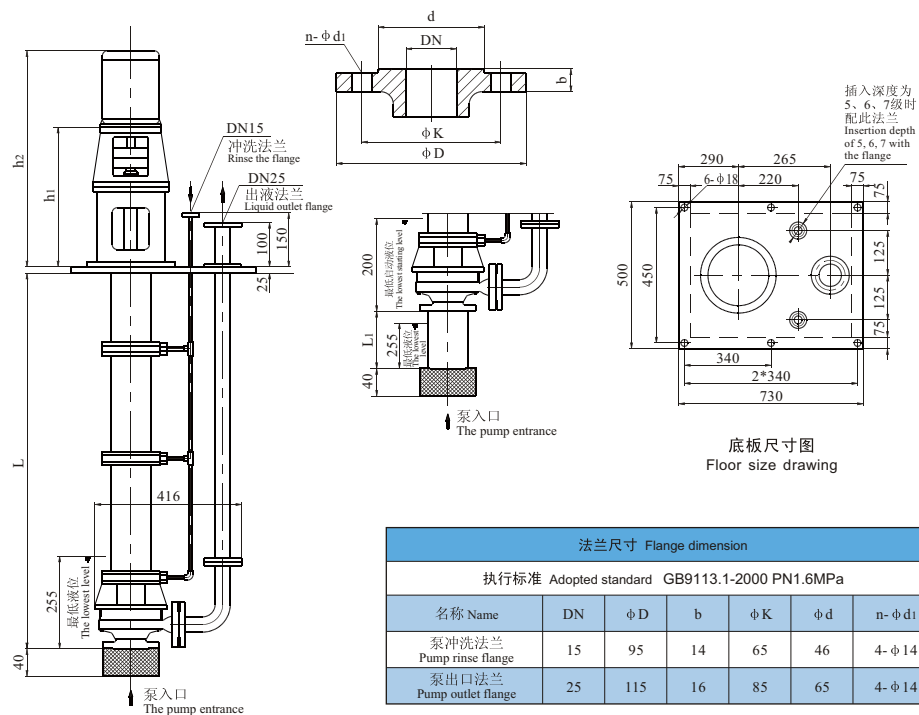


性能曲线图 Performance curve



外形及安装尺寸图 External form and installation dimension drawing

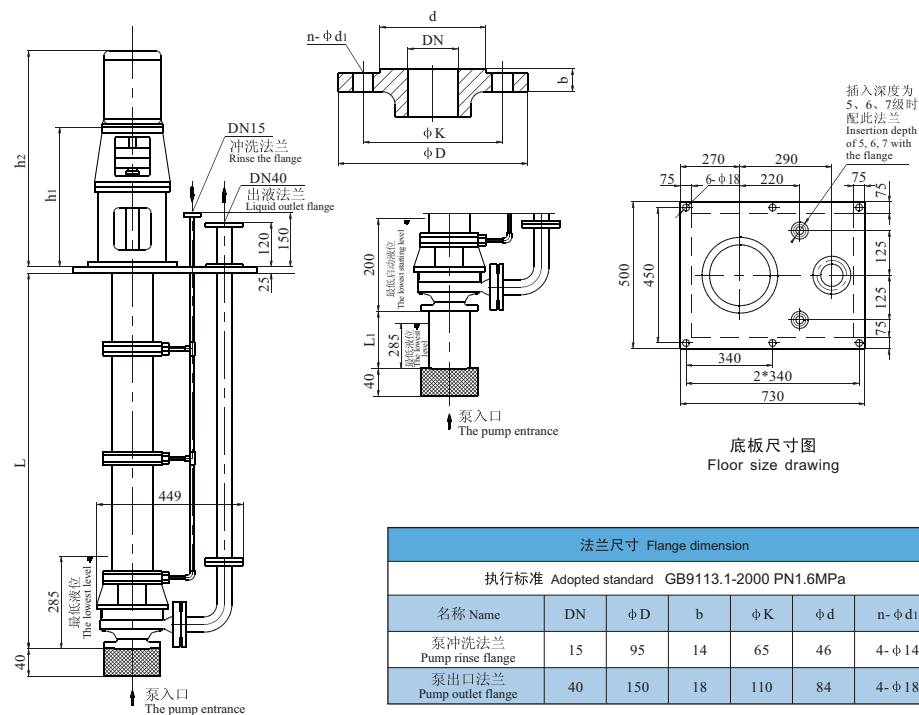
LY25-200型泵 Type pump



重量 Weight (kg)	250	268	287	308	350	370	384	重量 Weight (kg)	5	6
插入深度 L Insertion depth	2065	2665	3265	3865	4315	4915	5315	吸入管长度 L1 The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h2 Foundation size	649	674	719	739	814	854				
机座尺寸 h1 Foundation size	389	389	399	399	419	419				
机座号 Foundation No.	90S	90L	100L	112M	132S	132M				

外形及安装尺寸图 External form and installation dimension drawing

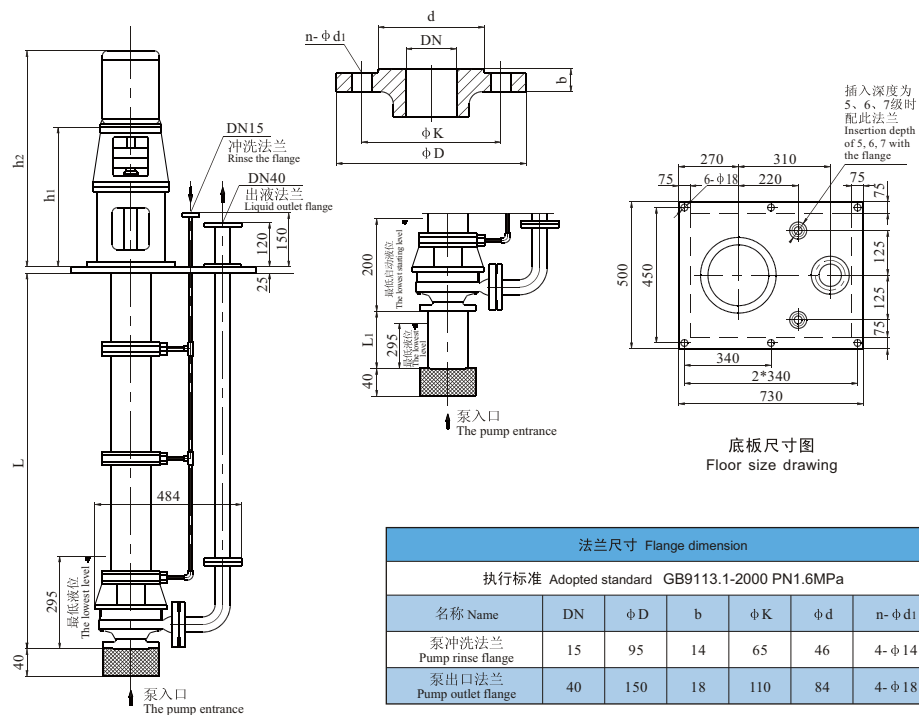
LY40-160型泵 Type pump



重量 Weight (kg)	260	280	300	320	362	383	396	重量 Weight (kg)	10	12
插入深度 L Insertion depth	2110	2710	3310	3910	4360	4960	5360	吸入管长度 L1 The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h2 Foundation size	649	674	719	739	814	854				
机座尺寸 h1 Foundation size	389	389	399	399	419	419				
机座号 Foundation No.	90S	90L	100L	112M	132S	132M				

外形及安装尺寸图 External form and installation dimension drawing

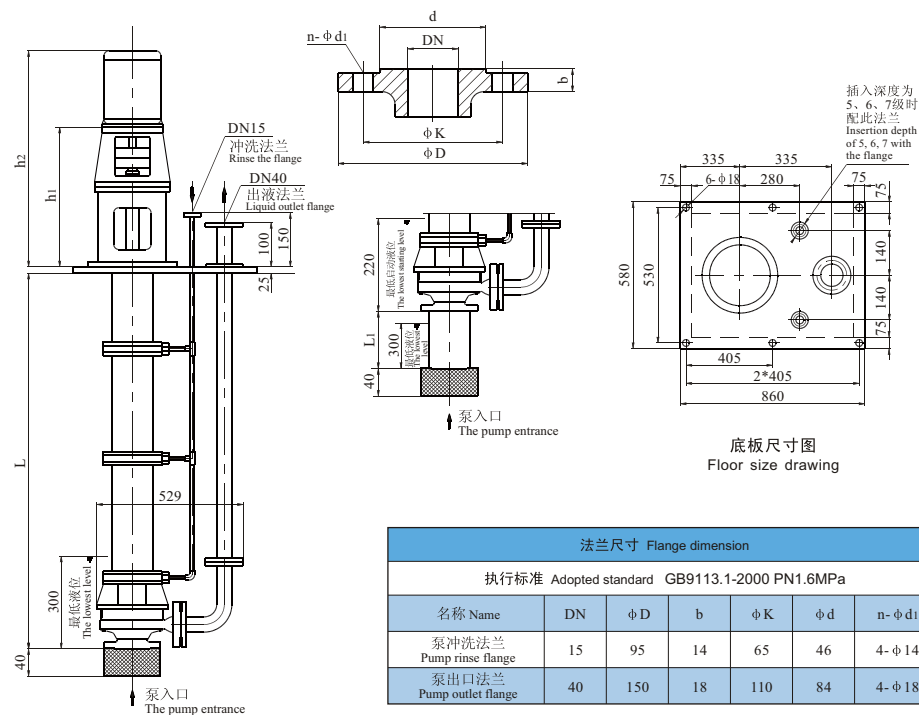
LY40-200型泵 Type pump



重量 Weight (kg)	278	298	318	338	380	401	414	重量 Weight (kg)	10	12
插入深度 L Insertion depth	2120	2720	3320	3920	4370	4970	5370	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	649	674	719	739	814	854				
机座尺寸 h ₁ Foundation size	389	389	399	399	419	419				
机座号 Foundation No.	90S	90L	100L	112M	132S	132M				

外形及安装尺寸图 External form and installation dimension drawing

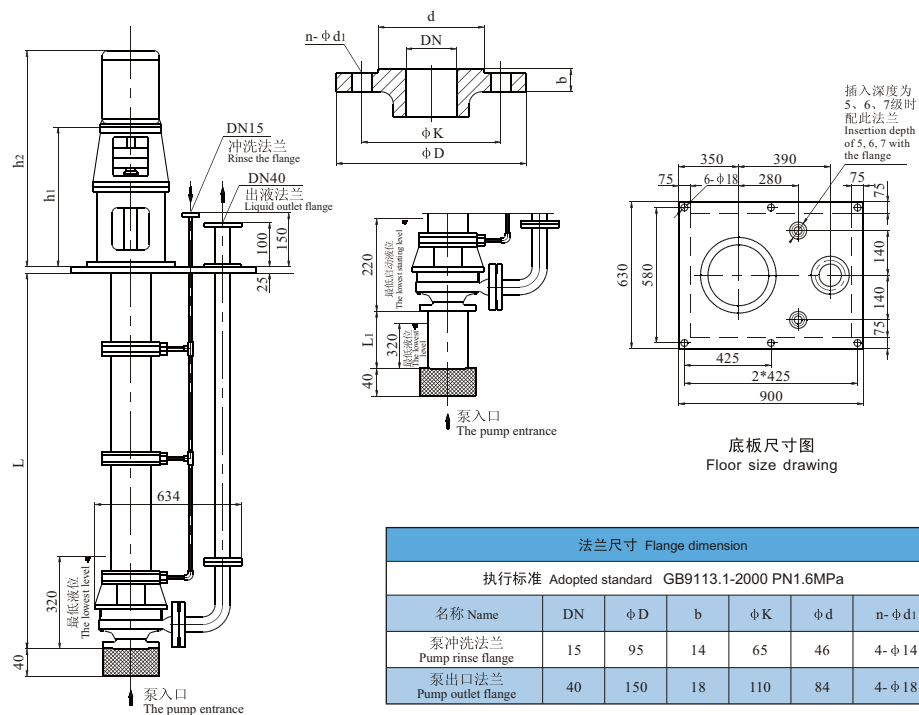
LY40-250型泵 Type pump



重量 Weight (kg)	400	429	454	483	553	580	598	重量 Weight (kg)	10	12
插入深度 L Insertion depth	2140	2740	3340	3940	4390	4990	5390	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	673	698	743	763	838	878	963		1008	1033
机座尺寸 h ₁ Foundation size	413	413	423	423	443	443	473		473	473
机座号 Foundation No.	90S	90L	100L	112M	132S	132M	160M		160L	180M

外形及安装尺寸图 External form and installation dimension drawing

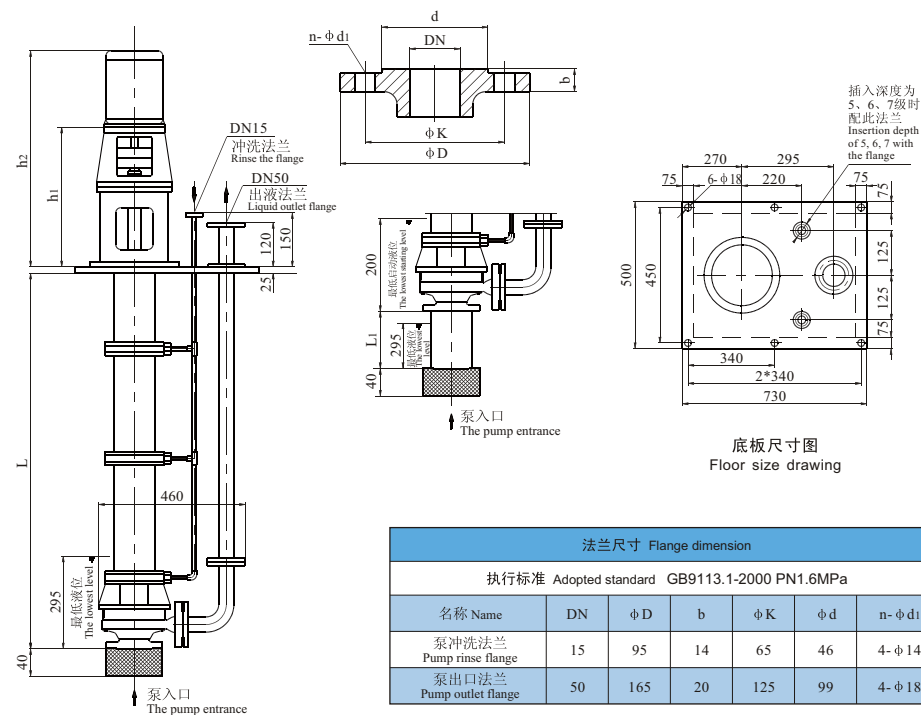
LY40-315型泵 Type pump



重量 Weight (kg)	443	472	497	526	596	623	641	重量 Weight (kg)	10	12
插入深度 L Insertion depth	2160	2760	3360	3960	4410	5010	5410	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	673	698	743	763	838	878	963	1008	1033	
机座尺寸 h ₁ Foundation size	413	413	423	423	443	443	473	473	473	
机座号 Foundation No.	90S	90L	100L	112M	132S	132M	160M	160L	180M	

外形及安装尺寸图 External form and installation dimension drawing

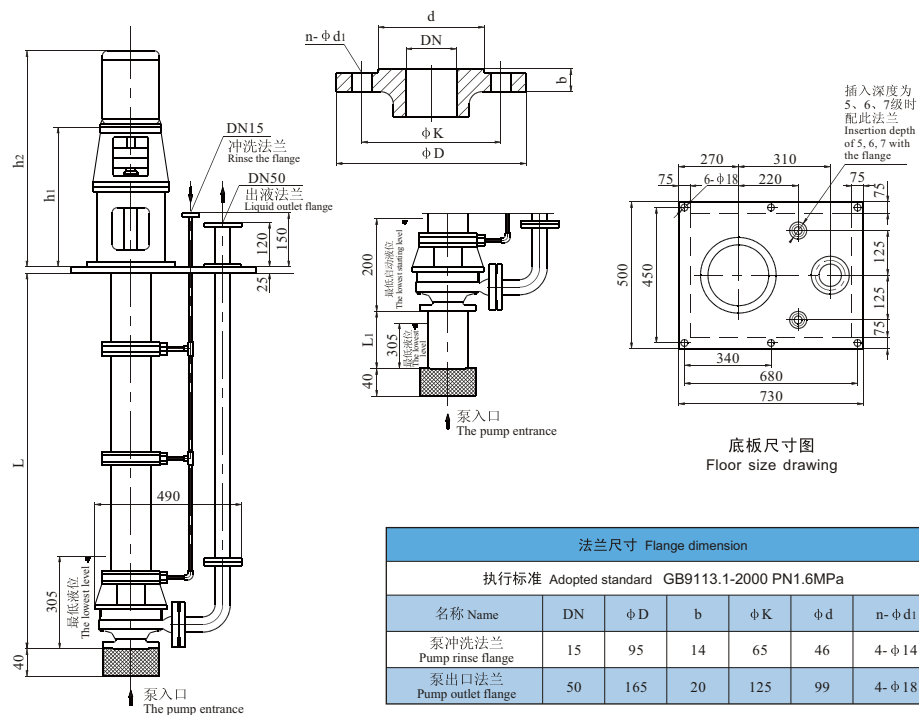
LY50-160型泵 Type pump



重量 Weight (kg)	270	290	311	331	374	395	408	重量 Weight (kg)	10	12
插入深度 L Insertion depth	2120	2720	3320	3920	4370	4970	5370	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	649	674	719	739	814	854	939			
机座尺寸 h ₁ Foundation size	389	389	399	399	419	419	449			
机座号 Foundation No.	90S	90L	100L	112M	132S	132M	160M			

外形及安装尺寸图 External form and installation dimension drawing

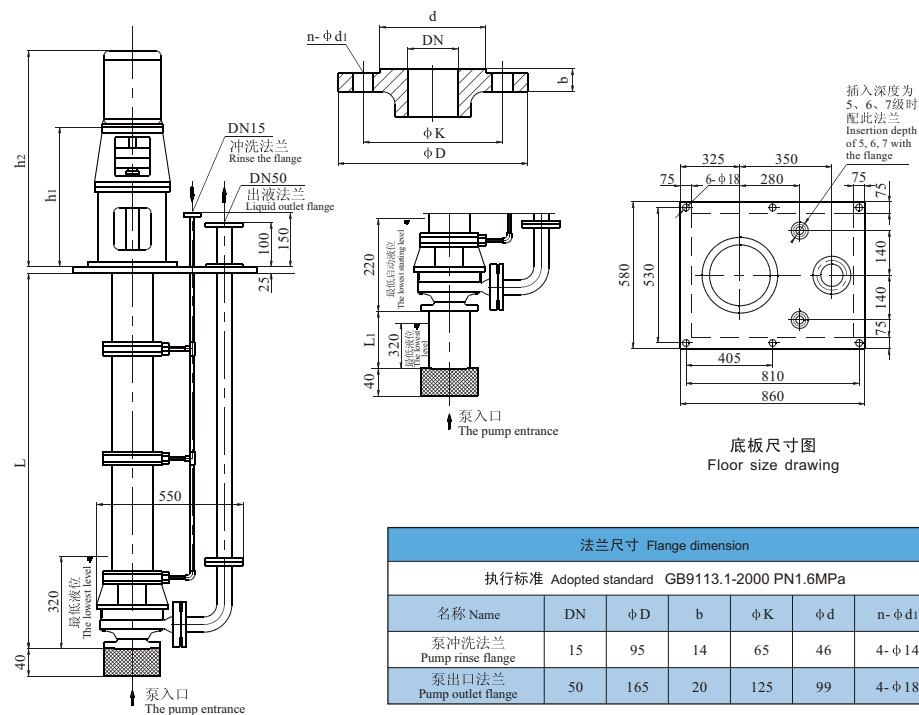
LY50-200型泵 Type pump



重量 Weight (kg)	272	292	313	333	376	397	410	重量 Weight (kg)	10	12
插入深度 L Insertion depth	2130	2730	3330	3930	4380	4980	5380	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	649	674	719	739	814	854	939	984	1009	
机座尺寸 h ₁ Foundation size	389	389	399	399	419	419	449	449	449	
机座号 Foundation No.	90S	90L	100L	112M	132S	132M	160M	160L	180M	

外形及安装尺寸图 External form and installation dimension drawing

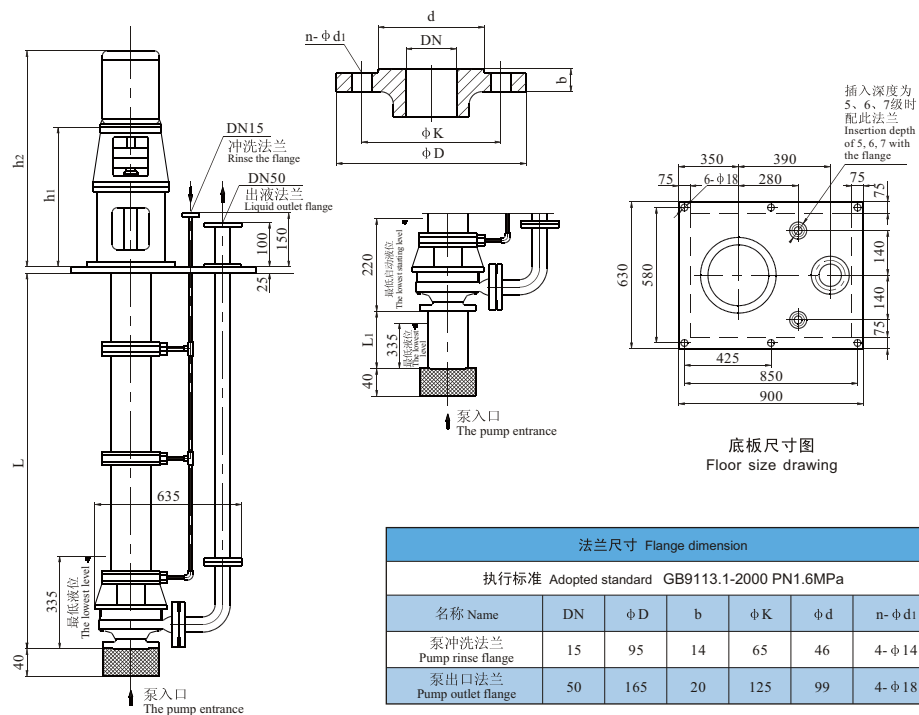
LY50-250型泵 Type pump



重量 Weight (kg)	407	436	462	491	562	589	608	重量 Weight (kg)	10	12
插入深度 L Insertion depth	2155	2755	3355	3955	4405	5005	5405	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	743	763	838	878	963	1008	1033	1073	1138	
机座尺寸 h ₁ Foundation size	423	423	443	443	473	473	473	473	473	
机座号 Foundation No.	100L	112M	132S	132M	160M	160L	180M	180L	200L	

外形及安装尺寸图 External form and installation dimension drawing

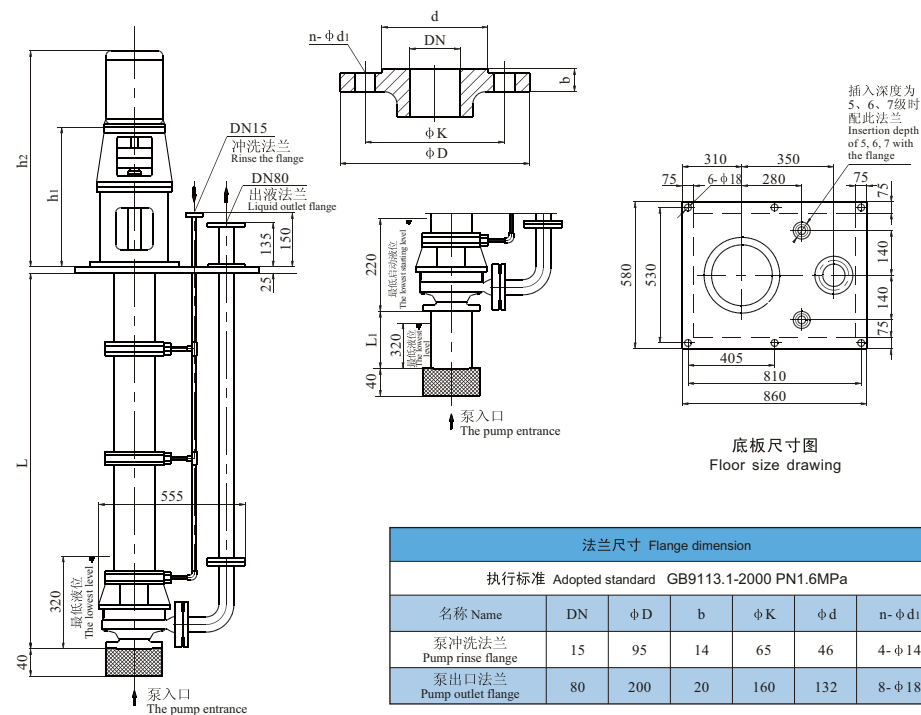
LY50-315型泵 Type pump



重量 Weight (kg)	455	484	510	539	610	637	656	重量 Weight (kg)	10	12
插入深度 L Insertion depth	2175	2775	3375	3975	4425	5025	5425	吸入管长度 L ₁ The suction pipe length	200	400
机座尺寸 h ₂ Foundation size	743	763	838	878	963	1008				
机座尺寸 h ₁ Foundation size	423	423	443	443	473	473				
机座号 Foundation No.	100L	112M	132S	132M	160M	160L				

外形及安装尺寸图 External form and installation dimension drawing

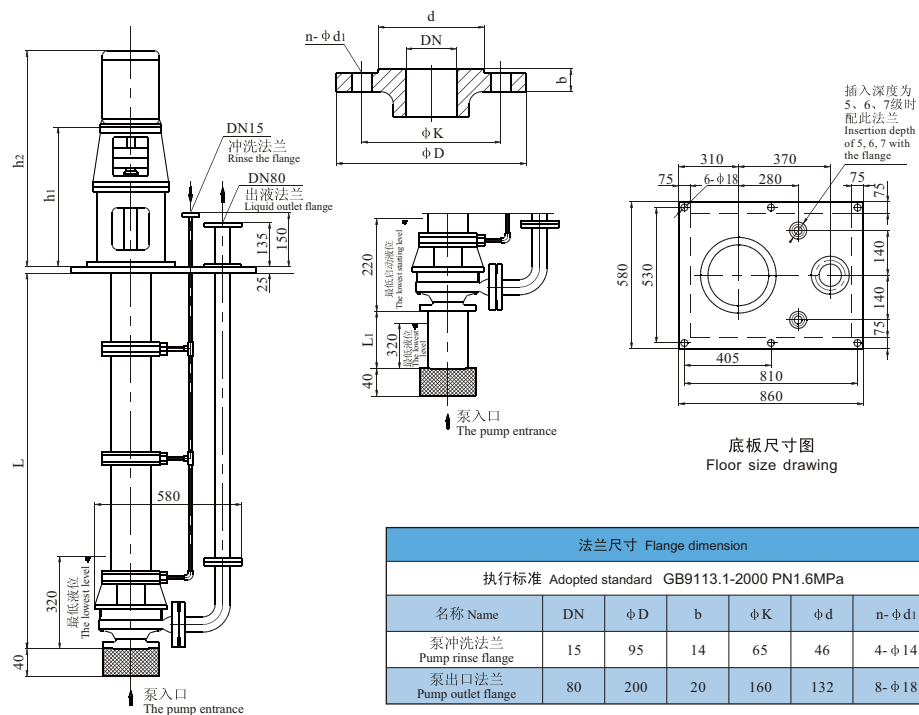
LY80-160型泵 Type pump



重量 Weight (kg)	400	429	458	488	562	591	612	重量 Weight (kg)	12	15
插入深度 L Insertion depth	2155	2755	3355	3955	4405	5005	5405	吸入管长度 L ₁ The suction pipe length	200	400
机座尺寸 h ₂ Foundation size	673	698	743	763	838	878	963	1008		
机座尺寸 h ₁ Foundation size	413	413	423	423	443	443	473	473		
机座号 Foundation No.	90S	90L	100L	112M	132S	132M	160M	160L		

外形及安装尺寸图 External form and installation dimension drawing

LY80-200型泵 Type pump

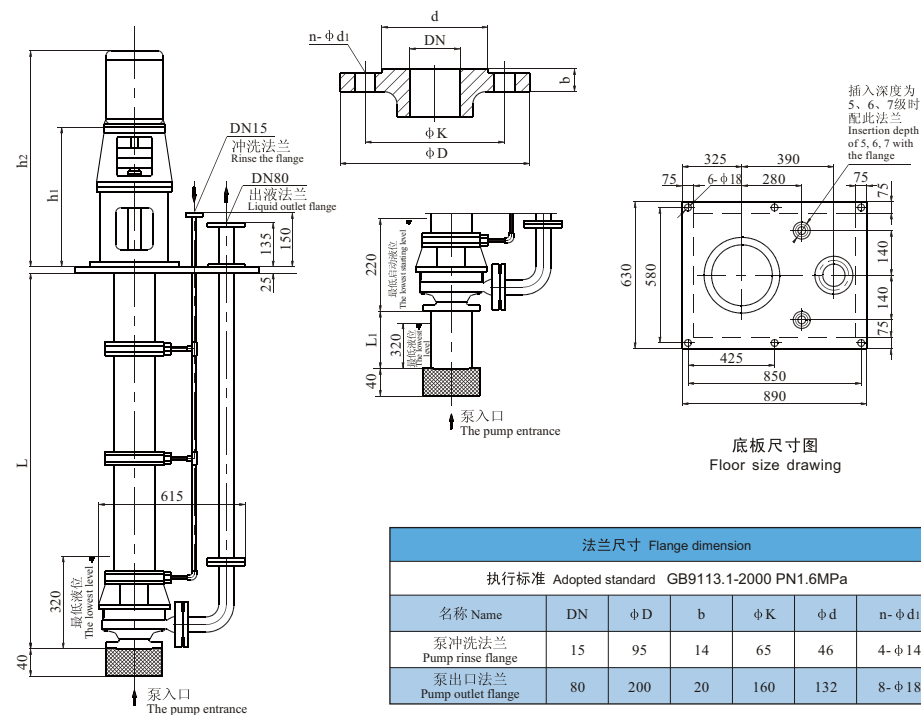


法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN1.6MPa						
名称 Name	DN	φ D	b	φ K	φ d	n-φ d ₁
泵冲洗法兰 Pump rinse flange	15	95	14	65	46	4-φ 14
泵出口法兰 Pump outlet flange	80	200	20	160	132	8-φ 18

重量 Weight (kg)	422	452	480	510	584	613	634	重量 Weight (kg)	12	15
插入深度 L Insertion depth	2160	2760	3360	3960	4410	5010	5410	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h2 Foundation size	698	743	763	838	878	963	1008	1033	1073	1138
机座尺寸 h1 Foundation size	413	423	423	443	443	473	473	473	473	473
机座号 Foundation No.	90L	100L	112M	132S	132M	160M	160L	180M	180L	200L

外形及安装尺寸图 External form and installation dimension drawing

LY80-250型泵 Type pump

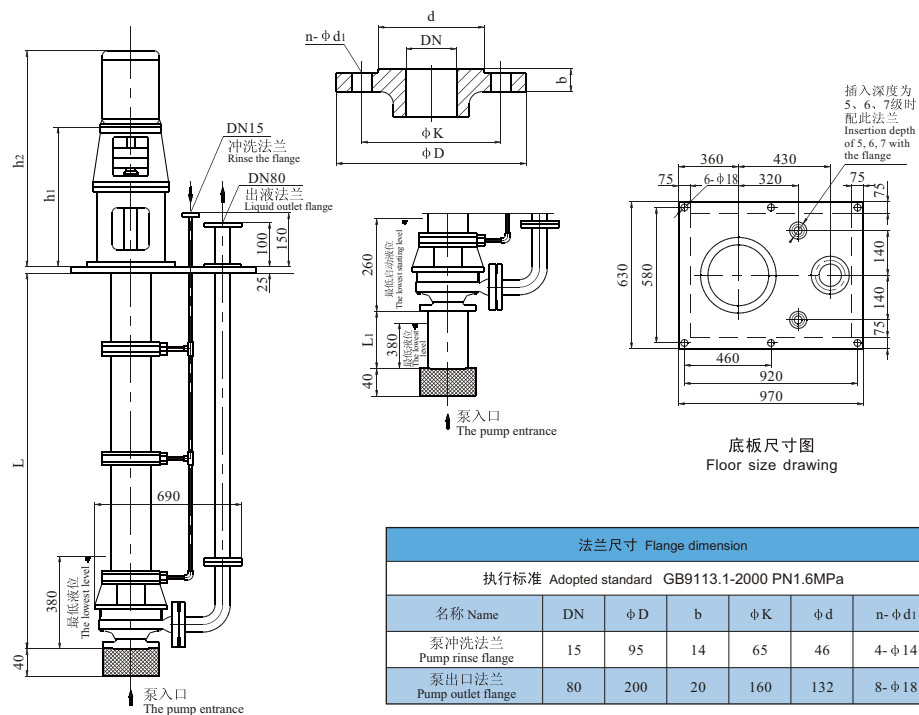


法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN1.6MPa						
名称 Name	DN	Φ D	b	Φ K	Φ d	n-Φ d ₁
泵冲洗法兰 Pump rinse flange	15	95	14	65	46	4-Φ 14
泵出口法兰 Pump outlet flange	80	200	20	160	132	8-Φ 18

重量 Weight (kg)	450	479	508	538	612	641	662	重量 Weight (kg)	12	15
插入深度 L Insertion depth	2165	2765	3365	3965	4415	5015	5415	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	743	763	838/878	963/1008	1033/1073	1138	1178	1183	1398	1483/1533
机座尺寸 h ₁ Foundation size	423	423	443	473	473	473	473	503	503	503
机座号 Foundation No.	100L	112M	132S/M	160M/L	180M/L	200L	225M(2P)	225S	250M	280S/M

外形及安装尺寸图 External form and installation dimension drawing

LY80-315型泵 Type pump

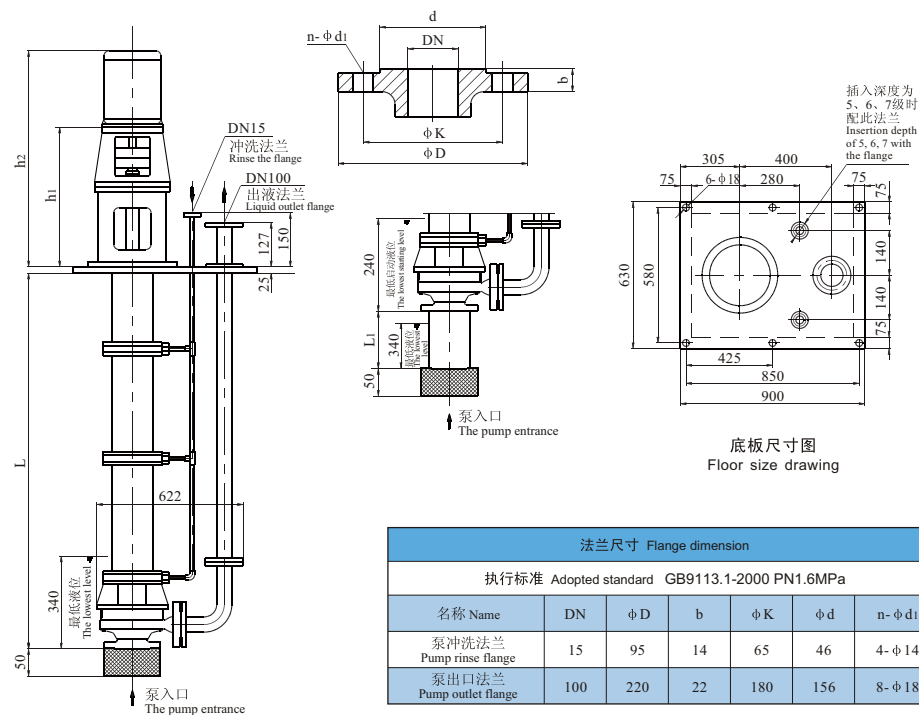


法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN1.6MPa						
名称 Name	DN	φD	b	φK	φd	n-φd1
泵冲洗法兰 Pump rinse flange	15	95	14	65	46	4-φ14
泵出口法兰 Pump outlet flange	80	200	20	160	132	8-φ18

重量 Weight (kg)	660	701	744	786	884	926	957	重量 Weight (kg)	12	15
插入深度 L Insertion depth	2220	2820	3420	4020	4470	5070	5470	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	951	991	1076	1121	1146					
机座尺寸 h ₁ Foundation size	556	556	586	586	586					
机座号 Foundation No.	132S	132M	160M	160L	180M					

外形及安装尺寸图 External form and installation dimension drawing

LY100-160型泵 Type pump

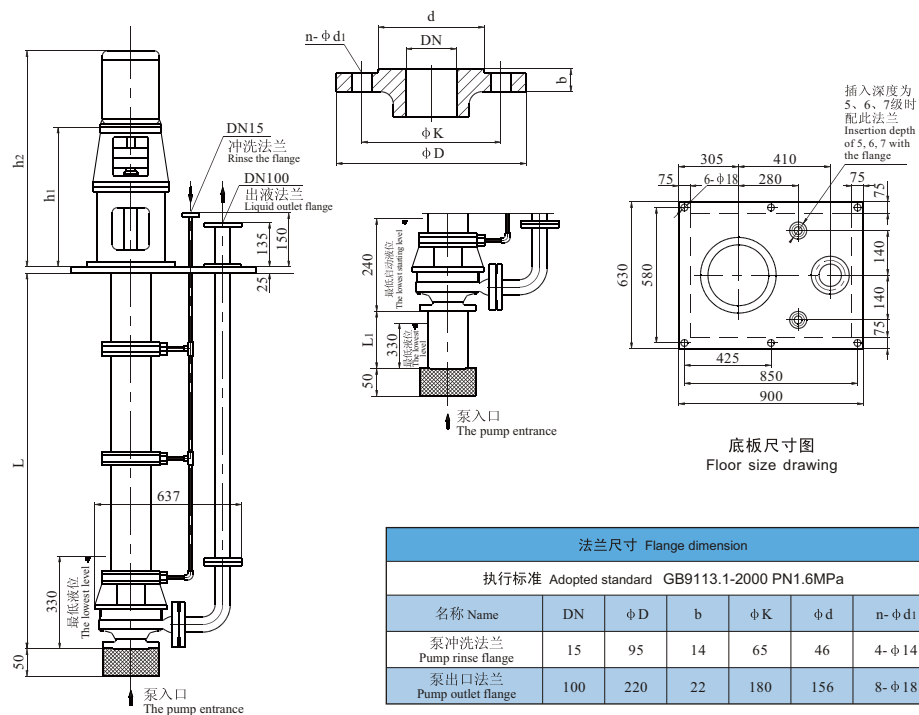


法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN1.6MPa						
名称 Name	DN	φ D	b	φ K	φ d	n-φ d ₁
泵冲洗法兰 Pump rinse flange	15	95	14	65	46	4-φ 14
泵出口法兰 Pump outlet flange	100	220	22	180	156	8-φ 18

重量 Weight (kg)	443	475	507	543	617	649	673	重量 Weight (kg)	12	15
插入深度 L Insertion depth	218	2783	3383	3983	4433	5033	5433	吸入管长度 L1 The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h2 Foundation size	673	698	743	763	838	878	963	1008	1033/1073	1138
机座尺寸 h1 Foundation size	413	413	423	423	443	443	473	473	473	473
机座号 Foundation No.	90S	90L	100L	112M	132S	132M	160M	160L	180M/L	200L

外形及安装尺寸图 External form and installation dimension drawing

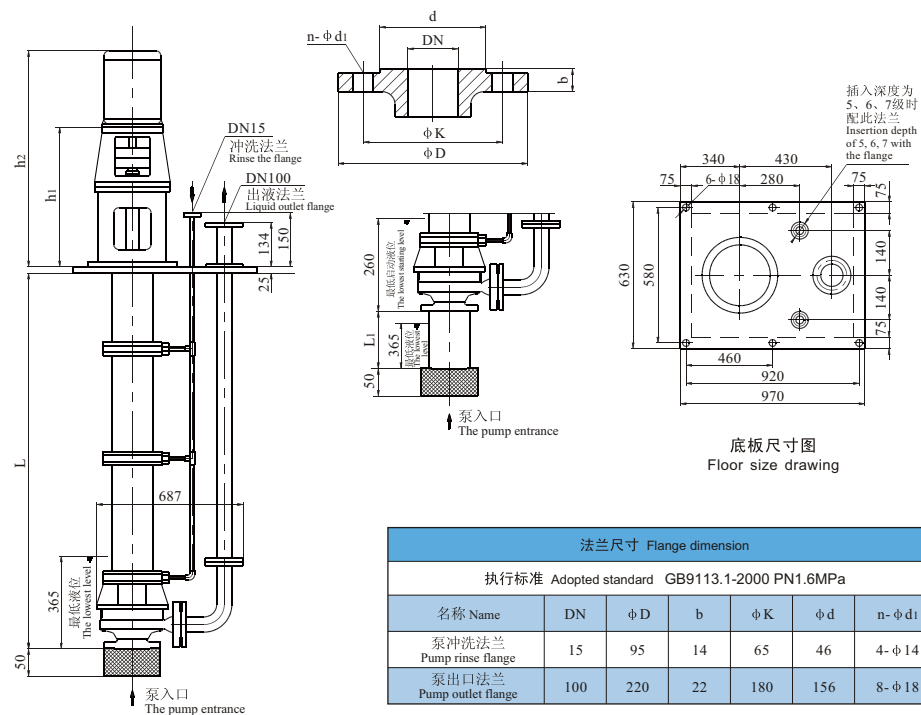
LY100-200型泵 Type pump



重量 Weight (kg)	458	490	522	558	632	664	688	重量 Weight (kg)	12	15
插入深度 L Insertion depth	2165	2765	3365	3965	4415	5015	5415	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	743	763	838	878	963/1008	1033/1073	1138	1183	1178	1398
机座尺寸 h ₁ Foundation size	423	423	443	443	473	473	473	473	473	503
机座号 Foundation No.	100L	112M	132S	132M	160M/L	180M/L	200L	225S	225M(2P)	250M

外形及安装尺寸图 External form and installation dimension drawing

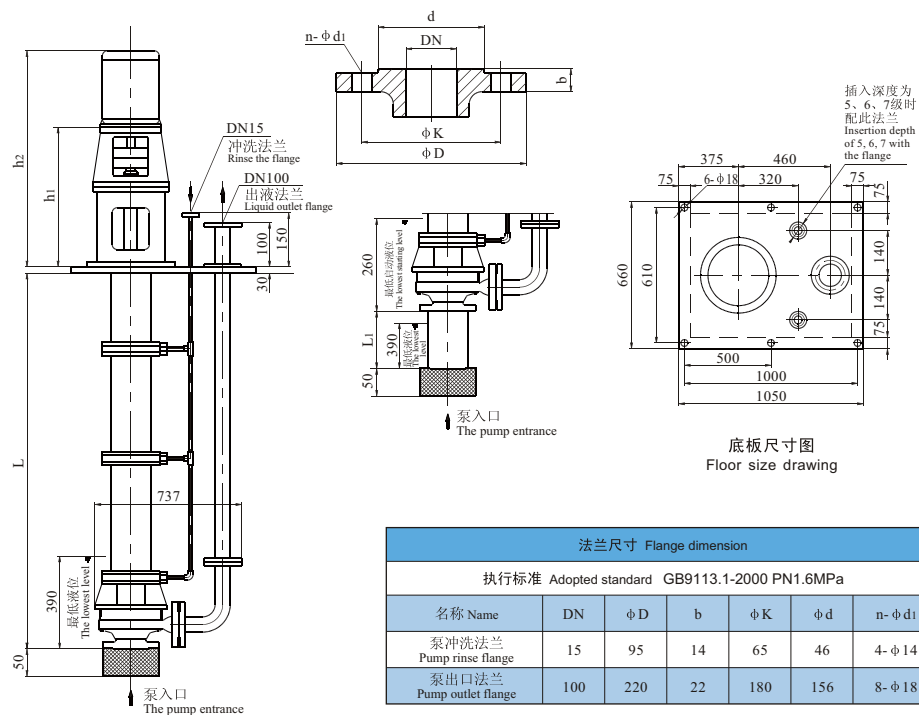
LY100-250型泵 Type pump



重量 Weight (kg)	490	522	554	590	664	696	720	重量 Weight (kg)	12	15
插入深度 L Insertion depth	2201	2801	3401	4001	4451	5051	5451	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	763	838	878	963/1008	1033/1073	1138	1183	1178	1398	1483/1533
机座尺寸 h ₁ Foundation size	423	443	443	473	473	473	503	473	503	503
机座号 Foundation No.	112M	132S	132M	160M/L	180M/L	200L	225S	225M(2P)	250M	280S/M

外形及安装尺寸图 External form and installation dimension drawing

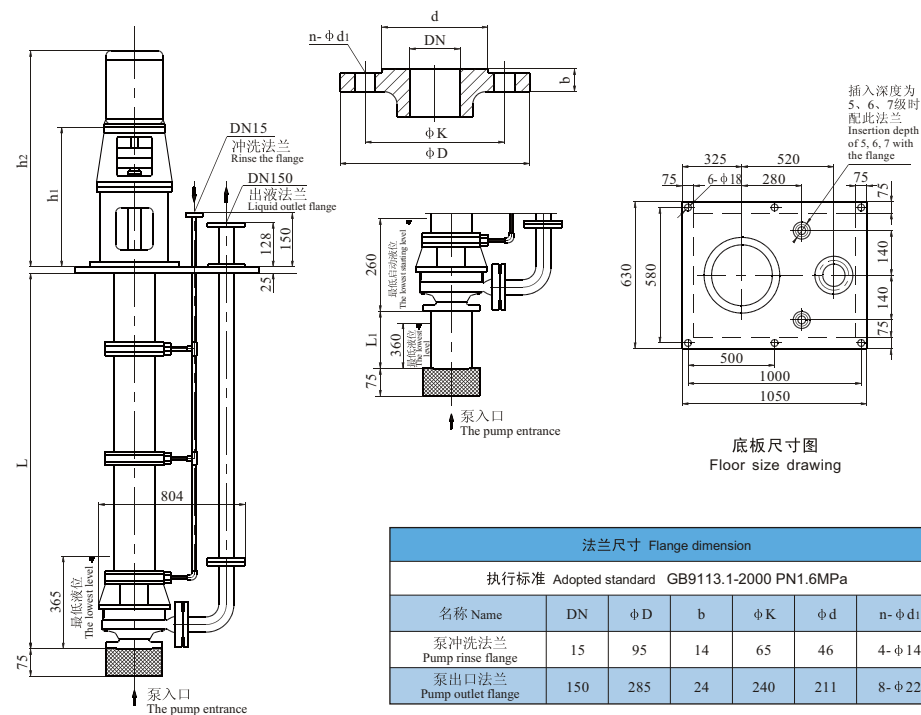
LY100-315型泵 Type pump



重量 Weight (kg)	689	733	779	824	955	970	1004	重量 Weight (kg)	20	25
插入深度 L Insertion depth	2230	2830	3430	4030	4480	5080	5480	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	1076	1121	1146	1186	1251					
机座尺寸 h ₁ Foundation size	586	586	586	586	586					
机座号 Foundation No.	160M	160L	180M	180L	200L					

外形及安装尺寸图 External form and installation dimension drawing

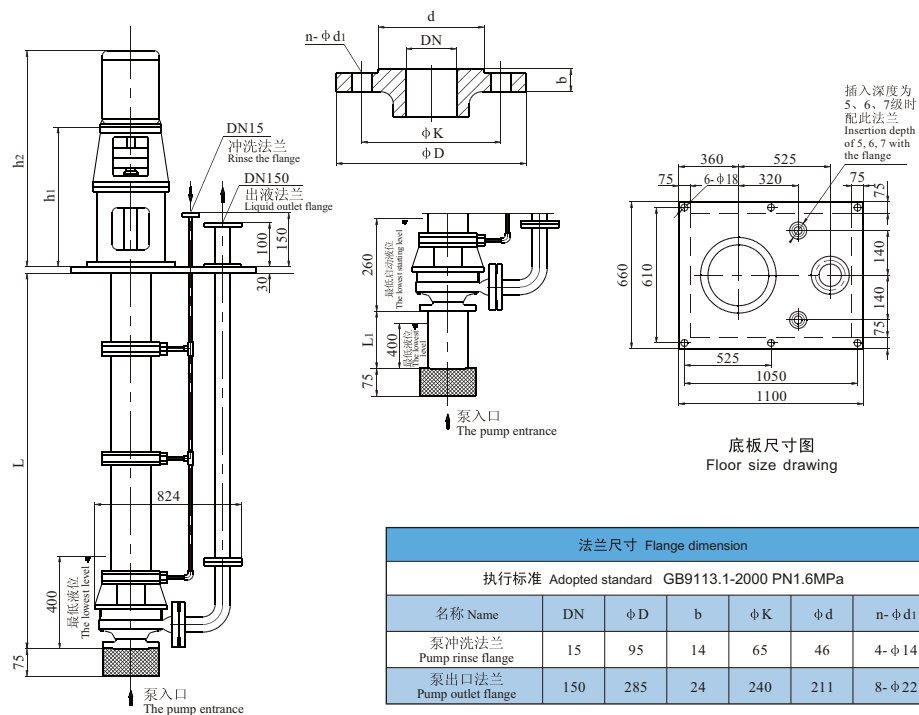
LY150-200型泵 Type pump



重量 Weight (kg)	530	567	604	646	724	761	790	重量 Weight (kg)	20	25
插入深度 L Insertion depth	2207	2807	3407	4007	4457	5057	5457	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	743	763	838	878	963					
机座尺寸 h ₁ Foundation size	423	423	443	443	473					
机座号 Foundation No.	100L	112M	132S	132M	160M					

外形及安装尺寸图 External form and installation dimension drawing

LY150-250型泵 Type pump

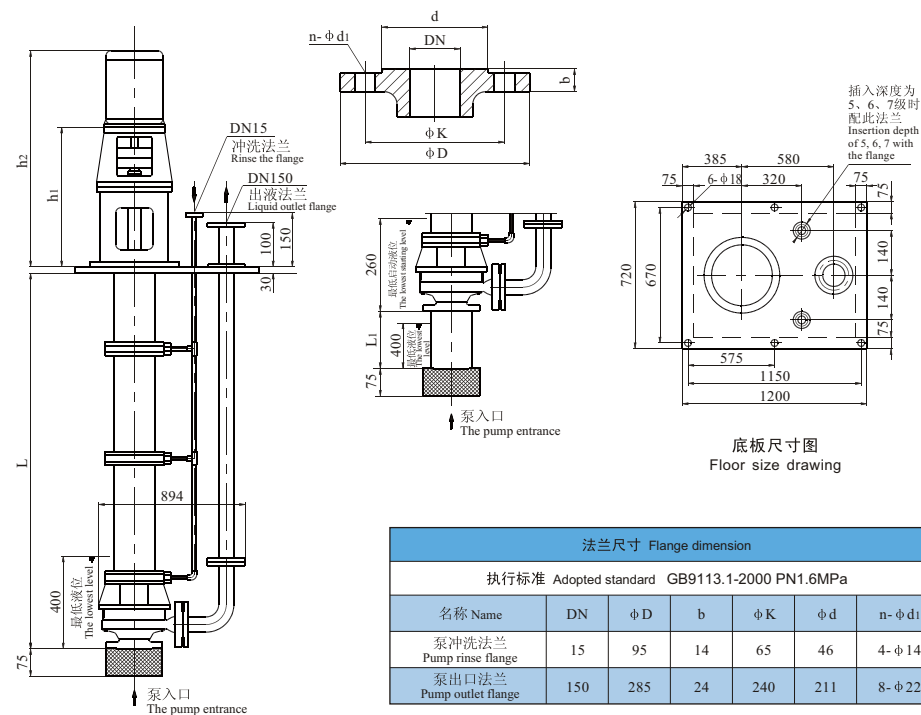


法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN1.6MPa						
名称 Name	DN	φ D	b	φ K	φ d	n-φ d1
泵冲洗法兰 Pump rinse flange	15	95	14	65	46	4-φ 14
泵出口法兰 Pump outlet flange	150	285	24	240	211	8-φ 22

重量 Weight (kg)	717	766	817	867	973	1023	1062	重量 Weight (kg)	20	25
插入深度 L Insertion depth	2235	2835	3435	4035	4485	5085	5485	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	1076	1121	1146	1186	1251					
机座尺寸 h ₁ Foundation size	586	586	586	586	586					
机座号 Foundation No.	160M	160L	180M	180L	200L					

外形及安装尺寸图 External form and installation dimension drawing

LY150-315型泵 Type pump

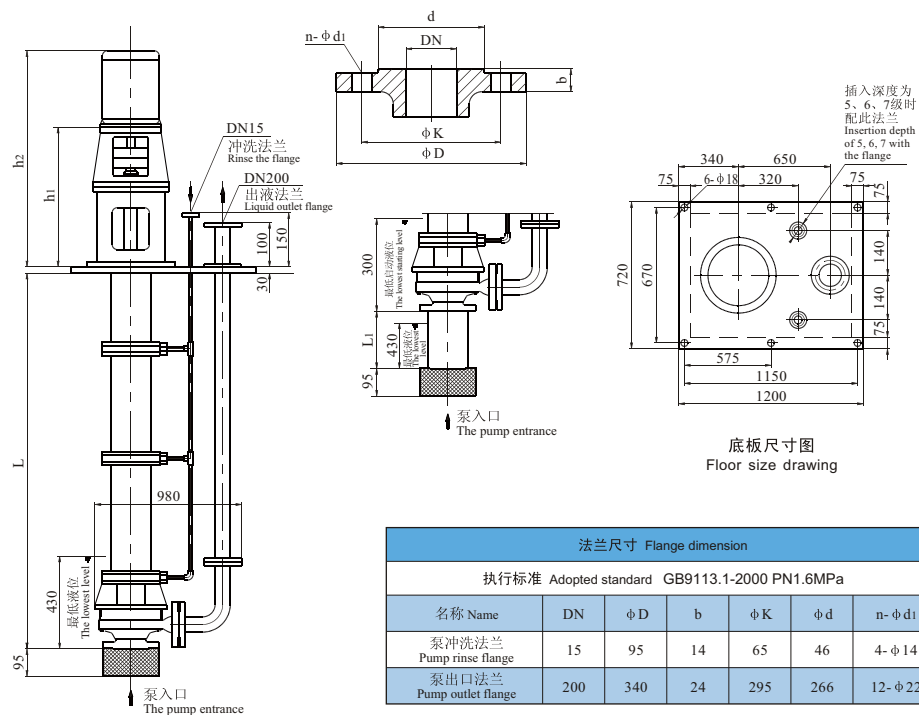


法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN1.6MPa						
名称 Name	DN	φ D	b	φ K	φ d	n-φ d1
泵冲洗法兰 Pump rinse flange	15	95	14	65	46	4-φ 14
泵出口法兰 Pump outlet flange	150	285	24	240	211	8-φ 22

重量 Weight (kg)	778	824	878	928	1034	1084	1123	重量 Weight (kg)	20	25
插入深度 L Insertion depth	2240	2840	3440	4040	4490	5090	5490	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	1076	1121	1146	1186	1251	1290	1321			
机座尺寸 h ₁ Foundation size	586	586	586	586	586	616	616			
机座号 Foundation No.	160M	160L	180M	180L	200L	225S	225M			

外形及安装尺寸图 External form and installation dimension drawing

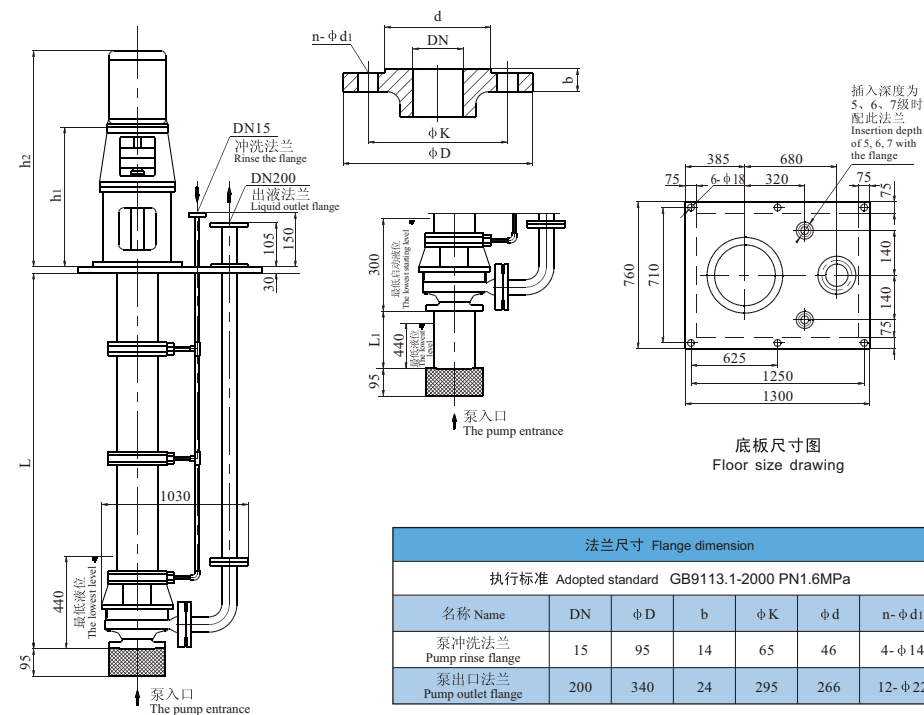
LY200-250型泵 Type pump



重量 Weight (kg)	806	865	925	985	1100	1160	1208	重量 Weight (kg)	29	48
插入深度 L Insertion depth	2275	2875	3475	4075	4525	5125	5525	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	1076	1121	1146	1186	1251	1290				
机座尺寸 h ₁ Foundation size	586	586	586	586	586	616				
机座号 Foundation No.	160M	160L	180M	180L	200L	225S				

外形及安装尺寸图 External form and installation dimension drawing

LY200-315型泵 Type pump



重量 Weight (kg)	892	951	1011	1071	1186	1246	1294	重量 Weight (kg)	29	48
插入深度 L Insertion depth	2280	2880	3480	4080	4530	5130	5530	吸入管长度 L ₁ The suction pipe length	200	400
	1	2	3	4	5	6	7			
机座尺寸 h ₂ Foundation size	1076	1121	1146	1186	1251	1290	1321	1511		
机座尺寸 h ₁ Foundation size	586	586	586	586	586	616	616	616		
机座号 Foundation No.	160M	160L	180M	180L	200L	225S	225M	250M		

泵体材料介质适应表 Table of the pump casing materials suitable for the media

符号说明 Symbol meaning

符号 symbol	说明(耐蚀情况, 腐蚀率、毫米/年) Notice(about corrosion resisting, corrosive rate:mm/year)	
A	优良, <0.05	Excellent,<0.05
B	良好, <0.05~0.5	Good,<0.05~0.5
C	可用, 但腐蚀较重, 0.5~1.5	Use, but severe corrosive, 0.5~1.5
D	不适用, 腐蚀严重, >1.5	Unsuitable, severe corrosive,>1.5
*	可能产生应力腐蚀破裂	Possibly to produce stress corroded cracking
△	溶液或介质变色	Color change with solution or medium
∅	可能产生晶间腐蚀	Possibly to form corrosion between crystals
∞	可能产生孔蚀	Possibly to produce hole corrosion

铸铁和低碳钢泵适应介质表

Table of the media suitable to both cast iron and low carbon steel made pumps

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
过氧化氢(双氧水) Hydrogen peroxide	10	B	B	B	B
	20~40	D			
氨水 Ammonia	<30	A	B	B	B
	40	A			
甲醇 Methanol	<100	B	B	B	B
	100	A	A	A	A
乙醇 Ethanol	<100	A	A	A	A
	100	A	A	A	A
丙醇 Propyl alcohol		A	A	A	A
丁醇 Butanol		A	A	A	A
		B(120)			
甲醛 Ormaldehyde	10~30	D			
	40~50	C			
	80~90			D	D
	100	A	A	A	A
乙醛 Acetaldehyde	10	C	C		
	100	A	A	A	
丙醛 Propionic aldehyde		A	A		
丁醛 Butyric aldehyde		A	A	A	A
(二)甲醚 Dimethyl ether		B	B	B	B
丙酮 Acetone	<100	B			
	100	A	A	A	A
		A(120)			
甲烷 Methane		A	A	A	A
		A(120)			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
乙烷 Elayl		A	A	A	A
		A(120)			
乙烯 Ethane		A	A	A	A
丙烷 Propane		A	A	A	A
		A(120)			
丁烷 Tetrane		A	A	A	A
汽油(高辛烷值) Gasoline(high octane value)		B	B	B	
汽油(喷油器燃料) Gasoline(fuel for oil sprayer)		B	B	B	
汽油(含H ₂ S) Gasoline(containing H ₂ S)		B			
汽油(含HCL, SO ₂ , H ₂ O) Gasoline(containing HCL, SO ₂ , H ₂ O)		C	C		
煤油 Coal oil		B	B	B	B
三乙醇胺 Triethanolamine		B	B	B	B
植物油 Vegetable oil	100	A	A	A	A
		A	D		
	90	D	产生催化 Producing catalyze		
豆油 Soy bean oil		B	B		
玉米油 Corn oil		B	B	B	
棉籽油 Cottonseed oil		B	B	B	
饮用水 Drinking water		B	B	B	
高纯水 High pure water		A			
		A	A		
海水 Sea water	流速 Flowrate				
	<1.5m/s	B			
	>1.5m/s	D	D		
水 PH=7 Water PH=7		C	C	C	C

LY SERIES LONG LINE SHAFT UNDER-LIQUID PUMP

同沐流体

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
水 PH<7 Water PH<7		D			
水 PH>7 Water PH>7		A	B		
硫酸 Sulphuric acid	<65	D	D		
	65~75	C	C	D	D
	75~100 ^①	B	C	D	D

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
铬酸 Chromic acid	<25	D			
	30~80	B			
	100	A			
硼酸 Boric acid	<10	C	C	C	C
	>10	D		D	
70~90%硫酸+硝酸 70~90% sulphuric acid+nitric acid		A			
氢氧化钠 Sodium hydroxide	<30 ^②	A	B	B	B*
		D*(200)			
	30~40	A	B	B	C
	50~60	B	B	D	D
		D*(200)			
	80	B	D	D	D
	90			D	D
	100	B		D	
		D*(370)			
氯化铵 Ammonium hydride	<10	C	D		
	10~99	D	D		
	100	B			
硫酸钠(PH>7) Sodium sulphate(PH>7)		B	B	B	B
硝酸钠 Sodium nitrate	<90	A	A	B	C
	100	A	A	A	A
		B(120)			
碳酸钠 Sodium carbonate		A	A	A	A
氯化钠(含氧) Solidum chloride (containing oxygen)	10	D ^③	C	C	D
	20~30	C			D
	100	A			
氰化钠 Sodium cyanide	10	A	A	A	A
		A(120)			
	20~90	A	A	A	A

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
氢氟酸(不含氧) Hydrofluoric acid (containing no oxygen)	<70	D	D		
	70~90	C			
	100	B	B		
氢氟酸(含氧) Hydrofluoric acid (containing oxygen)	<70	B	B		
	70~90	C			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature (°C)			
		25	50	80	100
碳酸氢钠 Sodium bicarbonate	<100	B	B	B	B
	100	C			
硅酸钠 Sodium silicate		B	B	B	B
		B(120)			
柠檬酸钠 Sodium citrate	10	D			
	100	A			
硫酸钾△ Potassium sulphate△	10~20	B	B	B	D ^④
		D			
	100	A			
硝酸钾 Potassium nitrate	<90	B	B	B	B
	100	A	A	A	A
		A(120)			
氟化钾 Potassium fluoride	20	B	B	B	
	100	A	B	B	B
氰化钾 Potassium cyanide	<50	C ^⑤	C	C	C
	60~70			C	C
	80~90	B			C
	100	B	B	B	B
		C(120)			
重铬酸钾 Heavy Potassium chromate	<60	B	B	B	B
		B	120		
	100	B	B	B	B
高锰酸钾 Potassium permanganate	<100	B	B	B	C
	100	B			
氯化钙 Lime chloride	10	A	A	A	A
		A(120)			
	20~70	B	B	C	D
	100	A	A	A	A
		A(120)			
氯化钙 Calcium fluoride	90	C			
	100	B	B	B	B

注: ①高转速泵、阀, 以用高铬镍不锈钢为好。铸铁优于碳钢, 可用于 80~100°C 以下。②铸铁不耐 100°C。③铸铁为 C。④铸铁为 D。

Note: ① It is better to use the high Cr-Ni stainless steel for the pump and valve of a high rotating speed. Cast iron is better than carbon steel. May be used below 80~100°C.

② Cast iron does not withstand 100°C. ③ Cast iron to be C. ④ Cast iron to be D.

铬18镍19不锈钢(304, 304L)泵适应介质表

Table of the media suitable to the pump made of cr18ni9 stainless steel(304,304L)

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
无机酸 Inorganic acid					
硫酸 [*] (不充气) Shlpuric acid [*] (without gas filled)	<5	B	D		
	10~80	D	D		
	90	B	D		
	100	B	C		D
硫酸 [*] (充气) Shlpuric acid [*] (gas filled)	<20	C	D		
	30~60	D	D		
	70~80	C	D		
	90~100	B	C	D	D
发烟硫酸 Fuming sulphuric acid		D			
硝酸 Nitric acid	<30	A	A	A	A
	40~60				
	70				
盐酸 Chlorhydric acid		D			
磷酸 Phosphoric acid	<5	B	B	B	B
		B(沸点) B(Boiling point)			
	10	B	D	D	D
	10~85	D			
氢氟酸(不充气)* Hydrofluoric acid (without gas filled)*	<100	D			
	100	B	D		
氢氟酸(充气)* Hydrofluoric acid (gas filled)*		D		D	
铬酸 [*] Chromic acid [*]	<10	B	C	C	
	20~30	B	D	D	D
	50	D			
	100	D			
硼酸 [∞] Boratic acid [∞]	<30	A	A	A	A
		A(沸点) A(Boiling point)			
	40	B	B	B	B
	50	B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
硼酸 [∞] Boratic acid [∞]	70~80	D			
	70~80	D(120)			
	100	B	B		
		D(200)			
混酸: 硫酸>50%+硝酸<50%+水>20% Mixed acid: sulphuric acid>50%+nitric acid<50%+water>20%		B	B	B	D(沸点) D(Boiling point)
硫酸20~60%+硝酸<25%+水>20% Sulphuric acid 20~60%+nitric acid<25%+water>20%		D			
硫酸15%+硝酸5%+水80% Sulphuric acid 15%+nitric acid 5%+water 80%		B	B	B	B (沸104) (Boiled 104)
氢氧化钠 Sodium hydroxide	<50	A	C	C	D
		D*(200)			
	70*	B	B	B	D*
		D*(200)			
	80*	B	B	B	D
		D*(200)			
	100	B	B	B	B
		C(316)		D(370)	
氢氧化钾 [*] Potassium hydroxide [*]	<50	B	B	B	B
		B(沸点) B(Boiling point)			
	50	B	B	B	D
		D(200)			
	60~70	B	B	B	C
		C(120)			
	80	B			D
		D(200)			
氢氧化钾 Potassium hydroxide	100	A			
		D(250)			
硫酸钠 [*] Sodium sulphate [*]		A	A	A	A
		A(200)		B(840)	

铸铁和低碳钢泵适应介质表

Table of the media suitable to the pump made of cast iron and low carbon steel

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
硝酸钠 [∞] Sodium nitrate [∞]	<70	A	A	A	A
		A(沸点) A(Boiling point)			
	100	B		D	
		D(510)			
碳酸钠 Sodium carbonate	10	A	A	A	A
		A(沸点) A(Boiling point)			
	20~40	B	B	A	A
	100	A	A	A	B
碳酸钠 Sodium carbonat	100	D*(400)		D*(900)	
氯化钠 ^{*∞} Sodium chloride ^{*∞}	10~30	B	B	B	B
		B(沸点) B(Boiling point)			
	90	D			
	100	B	B	B	
		D(260)		D(700)	
氰化钠 Sodium cyanide	10	A	A	A	A
	20~30	A			
	40~100	A	A	A	D
硅酸钠 Sodium silicate		A	A	A	A
		D(800)			
醋酸钠 [∞] Sodium acetate [∞]	10	A	A	A	A
		A(150)			
	20~60	B	B	B	B
	100	B	B	B	B
		B(370)			
柠檬酸钠 Sodium citrate	<40	B	B	B	B
	100	B			
硫酸钾 Potassium sulphate	<饱和	A	A	A	A
		A(沸点) A(Boiling point)			
硝酸钾 Saturation	<80	B	B	B	B
		B(沸点) B(Boiling point)			
	100	A	A	A	A
		A(560)			
氟化钾 Potassium fluoride		B	B	B	B
氰化钾 Potassium cyanide	<30	A	A	A	A
	40~	B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
氰化钾 Potassium cyanide	90				
	100	B			
重铬酸钾 Heavy potassium chromate	<30	A	A	A	A
		A(沸点) A(Boiling point)			
	40~60	A	A	A	A
	100	B			
高锰酸钾 Potassium permanganate	<30	B	B	B	B
		B(沸点) B(Boiling point)			
	100	B			
氯化钙 ^{*∞} Calcium chloride ^{*∞}	<20	A	A	A	D
	30~80	B	B	B	D
	100	B			
		D(150)			
氟化钙 Calcium fluoride	10	A	A	A	A
	100	A	A	A	A
过氧化氢(PH>7) Solozone(PH>7) (双氧水) (Hydrogen peroxide solution)	10~40	B	B	B	B
		B(沸点) B(Boiling point)			
	90	A	A		
	100	B			C
氨水 Ammonium water		A	A	A	A
氨(无水) Ammonium (free of water)		A	A	A	A
		A(316)		A(500)	
甲醇 Methanol	<100	A	A	A	A
	100	A	A	A	C
乙醇 Alcohol		A	B	B	B
丙醇 Propanol		A	A	A	A
丁醇 Butanol		A	A	A	A
甲醛 [∞] Formaldehyde [∞]	<40	A	A	A	A
		A(150)			
	50	A	A	B	B
		B(300)			
	60~70	A	A		
	80~90	A	A	A	
	100	A			
乙醛 Acetaldehyde		A	A	A	A
丙醛 Propionic aldehyde		A			
丁醛 Butyric aldehyde		A	A	A	A
(二)甲醚 Dimethyl ether		B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
乙 醚 Ethyl ether		A	A	A	A
丙 酮 Acetone		A	A	A	A
甲 烷 Methane		A	A	A	A
		A(370)			
乙 烷 Ethane		A	A	A	A
		A(316)			
丙烷(液及气) Propane(liquid and gas)		A	A	A	A
丁 烷 Tetraene		A	A	A	A
汽油(高辛烷值) Gasoline(high value of octane)		B	B	B	
汽油(喷汽燃料) Gasoil(fuel of steam sprayer)		B	B	B	
煤 油 Coal oil		A	A	A	A
		A(200)			
三乙醇胺 Triethanolamine		B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
植物油 Vegetable oil		A	A	A	A
		A(350)			
豆 油 Soy bean oil		A	A	A	A
玉米油 Corn oil		A	A	A	A
棉子油 Cottonseed oil		A	A	A	A
饮用水 Drinking water		A	A	A	A
海 水 Sea water	流 速 Flowrate				
	<1.5m/s	A [∞]		A	
	>1.5m/s	A [∞]			

铬18镍12钼(钛)(316,316L)不锈钢泵的适应介质表

Table of the media suitable to the pump made of Cr18Ni12Mo(Ti) (316,316L) stainless steel

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
硫酸 ⁺ (充 ⁺ 气) Vitriol ⁺ (gas filled)	<5	B	B	D	D
	10~30	B	C	D	D
	40~50	C	D	D	
	60~70	D	D	D	
	90	B ^①	C	D	D
	100	B	C	C	C
		D(120)			
硫酸 ⁺ (不充 ⁺ 气) Vitriol ⁺ (without gas filled)	<5	B	D	D	D
	20~80	D	D	D	D
	80~90	B	D	D	
	100	B	B	B	C
硝 酸 Nitric acid	<20	A	A	A	A
		C(120)		D(150)	
	30~60	A	B	B	B
		D(120)			
	70	A	B	B	
	80	A	B	D	
	90	A	D		
	100	A ^②	D		
磷酸 ⁺ (充 ⁺ 气) Phosphoric acid (gas filled)	<25	A	A	A	A
	25-50	A	A	A	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
介 质 名 称 Medium name		D(120)			
		D(120)			
	50~85	A	B	B	B
	90	D			
	100	B			
磷酸 ⁺ (不含氧) Phosphoric acid (containing no oxygen)		B	B	B	B
氢氟酸(不充 ⁺ 气) Hydrofluoric acid (without gas filled)	<100	D			
	100	B			
氢氟酸(充 ⁺ 气) Hydrofluoric acid (gas filled)	<10	B			
	10~90	D			
	100	B			
碳 酸 Carbethylic acid	10	B			
	30				A
	100	A	A	A	A
		A(816)			
铬 酸 Chromic acid		D			D
氯 酸 [∞] Chloric acid [∞]		D			
四磷酸 Tetra-phosphoric acid		B			
硼 酸 [∞] Boratic acid [∞]	<10	A	A	A	A
	20~50	B	B	B	B

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
介 质 名 称 Medium name		B(150)		B(沸点) B(Boiling point)	
	70~80	B		D(120)	
	100	B	B	D(250)	
		D			
主 水 Nitro-hydrochloric acid		B	B	B	
混酸：硫酸>50%+硝酸<50%+水<20% Mixed acid: sulphuric acid>50%+nitric acid<50%+water<20%		D(沸点) D(Boiling point)			
		D			
		D			
混酸：硫酸20~60%+硝酸<25%+水<20% Mixed acid: sulphuric acid 20~60%+nitric acid<25%+water<20%		D			
混酸：硫酸30%+硝酸15%+水55% Mixed acid: sulphuric acid 30%+nitric acid 15%+water55%		B	B	B	
		B(沸点) B(Boiling point) (110)			
混酸：硫酸15%+硝酸5%+水80% Mixed acid: sulphuric acid 15%+nitric acid 5%+water80%		B	B	B	
		B(沸点) B(Boiling point) (110)			
甲 酸 [∞] Aminic acid	<5	B	B	B	B
	>5	C	C	C	C
		D(沸点) D(Boiling point)			
醋酸 ⁺ (不充 ⁺ 气) (乙酸) Acetic acid ⁺ (without gas filled) (acetic acid)	<50	A	A	A	A
	60~90	B	B	B	B
	100	B	B	B	B
		D(200)			
醋酸(充 ⁺ 气) Acetic acid (gas filled)	<40	A	A	A	A
		B(150)		D(200)	
	50	A	B	B	B
	60~90	A	B	B	C
	100	A	B	B	C
		D(150)			
氢氧化钠 Sodium hydroxide	<20	A	A	A	A
		B(沸点) B(Boiling point)		D(150)	
	30~50	A	A	B	D
		D*(150)			
	70	A	A	B	B
		D*(150)			
	80	A	A	B	D*
		D(260)		D(370)	

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(°C)			
		25	50	80	100
氢氧化钠 Sodium hydroxide	100	A	A	A	A
		C(260)		D(370)	
氢氧化钾* Potassium hydroxide*	<50	A	A	A	A
		A(沸点) A(Boiling point)			
	50	B	B	B	D
		D(200)			
	60~70	B	B	B	C
		C(150)			
	80	B			
		D(200)			
	100	A			
		D(260)			
硫酸钠 Sodium sulphate		A	A	A	A
		A(200)		B(840)	
硝酸钠 Sodium nitrate	<70	A	A	A	A
		A(沸点) A(Boiling point)			
	100	B			
		A(510)			
碳酸钠 Sodium carbonate	10	A	A	A	A
		A(沸点) A(Boiling point)			
	20~40	B	B	A	A
		A(沸点) A(Boiling point)			
	100	B	B	B	B(260)
		D*(400)		D*(900)	
氯化钠* [∞] Sodium chloride* [∞]	10	B	D		
	20~30	B	B	B	B
		B(沸点) B(Boiling point)		D(120)	
	90	D			
	100	A		D(700)	
碳酸氢钠 Sodium bicarbonate		A	A	A	A
氰化钠 [∞] Sodium cyanide* [∞]	<10	A	A	A	A
	20~30	A			
	40~100	B			D
		D(700)			
硅酸钠 Potassium silicate		A	A	A	A
		D(800~100)			
硫酸钠 Potassium sulphate	<100	A	A	A	A
		A(沸点) A(Boiling point)			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
硝酸钾 Potassium nitrate	100	A			
	<80	B	B	B	B
		B(沸点) B(Boiling point)			
	100	B			
碳酸钾 Potassium bicarbonate	<70	B	B	B	B
		B(沸点) B(Boiling point)			
	100	B	B	B	B
氟化钾 Potassium fluoride		B	B	B	B
氰化钾 Potassium cyanide	<90	B	B	B	B
	100	B			
重铬酸钾 Heavy potassium chromate	<30	A	A	A	A
		A(沸点) A(Boiling point)			
	40~60				A
	10	B			
高锰酸钾 Potassium permanganate	<30	B	B	B	B
氯化钙** Calcium chloride**	10	B	D		
	20~30	B	B		
		B	B	B	
	40~90	D(沸点) D(Boiling point)			
	100	A	A	A	A
	50	C(-18)			
氯化钙 Calcium fluoride	10	A	A	A	A
	100	A	A	A	A
甲醇 Methanol	<100	A	A	A	A

注：① Cr26Mol铁素体钢不耐蚀；
② 高流速和摩擦会增加腐蚀；
③ 不许可含微量盐酸、硫酸或氯化钠。Cr26Mol铁素体钢耐蚀较好。

Note: ① Cr26Mol ferritic steel does not withstand corrosion;
② High flowrate and friction may increase corrosion;
③ Not allowed to contain micro chlorhydric acid, sulphuric acid or sodium chloride. Cr26Mol ferritic steel is of a better corrosion resistance.

钛及钛合金泵的适应介质表
Table of the media suitable to the pump of titanium and titanium alloy

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
硫酸 ^① (充气) Vitriol ^① (gas filled)	1	B	B	B	B
		B(沸点) B(Boiling point)			
	<3	B	B		D
	<10	B	C	D	D
	10~30	B	C	D	
	40~50	C	D		
硫酸(不充气) Vitriol (without gas filled)	50~100	D	D		
	<10	B			
	10~100	D			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
乙醇 Alcohol		A	A	A	A
乙二醇 Ethandiol		A	A	A	A
甲醛 ^② Formaldehyde ^②	<40	A	A	A	A
		A(150)			
	50		A	B	B
		B(300)			
	60~70	A	A		
	80~90	A	A	A	
	100	A			
乙醚 Ethyl ether		A	A	A	A
丙酮 Acetone		A	A	A	A
醋酸乙酯 Ethyl ester acetate		A	A	B	B
甲苯 Toluene		A	A	A	A
		A(沸点) A(Boiling point)			
汽油 Gasoline		A	A	A	A
		A(175)			
煤油 Coal oil		A	A	A	A
		A(200)			
苯酚 Phenyl hydroxide	70~90	B	B	B	B
		B(150)			
海水 Sea water	流速 Flowrate				
	<1.5m/s	A**		A(PH≈7)	
	>1.5m/s	A**			

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
硝酸 Nitric acid	10	A	A	A	A(150)
		B(200)			
		A	A	A	
	20	A(150)			
		B(200)			
		D(316)			
	30~80	A	A	A	A(150)
		D(200)			
80~100	A	A	B		
	B(150)				

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
盐酸 ^③ (不充气) Chlorhydric acid ^③ (without gas filled)	10	B	D		
	20	C	D		
	>30	D			
盐酸 ^③ (充气) Chlorhydric acid ^③ (gas filled)	1	B	B	B	B(沸点) B(Boiling point)
	<20	B			D(35)
	30	B	D		
	>50	D			
磷酸(充气) Phosphoric acid (gas filled)	5	B	B	B	B
	<10	B	B	B	
磷酸(充气) Phosphoric acid (gas filled)		D(沸点) D(Boiling point)			
	10~20	B	D		
	30	B	C		D
	40	C	C		
	50~70	C	C	D	
	100	D			
磷酸 ^③ (不充气) Phosphoric acid ^③ (without gas filled)		D			
铬酸 Chromic acid	10	A	A	A	A
		A(沸点) A(Boiling point)			
	<90	A	A	A	A
硼酸 Boric acid	10	A	A	A	A
		A(沸点) A(Boiling point)			
	<饱和 <Saturation	A	A	A	A
盐酸1%+硝酸3% Chlorhydric acid 1%+nitric acid 3%		A			
盐酸2%+硝酸1% Chlorhydric acid 2%+nitric acid 1%		A			
王水 Nitro-hydrochloric acid		A	A	B	B
盐酸4%+硝酸1% Chlorhydric acid 4%+nitric acid 1%		A			

注：① 含Cu、Ni等离子或其他氧化剂能降低腐蚀。
② 含微量Cl的甲、乙醇可能产生应力腐蚀破裂，含2%以上的水时可避免。
Note: ① Containing Cu, Ni etc. ions or other oxidants can lower the corrosion.
② Both methanol and alcohol containing micro Cl may produce stress corrosive cracking, which can be avoided by containing more than 2% water.

介质名称 Medium name	浓度 Concentration (%)	温度 Temperature(℃)			
		25	50	80	100
甲酸(不充气) Aminic acid (without gas filled)	<10	A	A	A	
		A(沸点) A(Boiling point)			
	30	D			D
	<50	B	B	D	D
	90			D	D
甲酸(充气) Aminic acid(gas filled)		B	B	B	B
醋酸 Acetic acid		A	A	A	A
		A(200)			
氢氧化钾 Potassium hydroxide	10	A	A	A	A
氢氧化钾 Potassium hydroxide		A(沸点) A(Boiling point)			
	20~100	B			D(沸点) D(Boiling point)
		D(260)			
氢氧化钠 Sodium hydroxide	10	A	A	A	A
		A(沸点) A(Boiling point)			
硫酸钠 Sodium sulphate	10~30	A	A	A	A
		A(沸点) A(Boiling point)			
	饱和 Saturation	A	A		
		D(900)			
硝酸钠 Sodium nitrate	<饱和 <Saturation	A	A	A	A
		A(300)			
氯化钠 Sodium chloride	<饱和 <Saturation	A	A	A	A
		A(沸点) A(Boiling point)			
	100	A*(沸点) A*(Boiling point)			
乙醇* Alcohol*		A	A	A	A
乙二醇 Ethandiol		A	A	A	A
乙醚 Ethyl ether		A	A	A	A
丙酮 Acetone		A	A	A	A
醋酸乙酯 Ethyl ester acetate		A	A	A	A
甲苯 Toluene		A	A	A	A
苯酚 Phenyl hydroxide		A			

ZGOOCr20Ni25Mo4.5Cu1.5(904L)耐腐蚀性能表

ZGOOCr20Ni25MO4.5CU1.5(904L)Table of anti-corrosive performance

介质名称 Medium name	介质条件 Medium condition		腐蚀情况 Corrosion condition
	浓度 Concentration(%)	温度 Temperature(°C)	
硫酸 Vitriol	5-40	60	A
	10	80	B
	20	70	B
	30	70	B
	40	30-50	A
	50	40	A
	50	50	B
	60	20-35	A
	60	40	B
	80-98	40	A
	80-98	50	B

介质名称 Medium name	介质条件 Medium condition		腐蚀情况 Corrosion condition
	浓度 Concentration(%)	温度 Temperature(°C)	
硝酸 Nitric acid	10-40	20-沸腾 20-Boiling	A
	50	100	A
	60	90	A
	70	100	B
	80	80	B
醋酸 Acetic acid	1-80	沸腾 Boiling	A
	99.5	200	A
	100	20-75	A
	100	100	A
	100	沸腾 Boiling	A

ZG1Cr13(410)耐腐蚀性能表

ZG1Cr13(410) Table of anti-corrosive performance

介质条件 Medium condition			延续时间 Extended time	腐蚀情况 Corrosion condition
介质名称 Medium name	浓度 Concentration(%)	温度 Temperature(°C)	h	
硝 酸 Nitric acid	5	20		A
	7	20	720	A
	5	沸腾 Boiling		D
	20	20		A
	20	沸腾 Boiling		A
	50	20		A
	50	沸腾 Boiling	24	C
	65	20		A
	65	沸腾 Boiling	24	D
	90	20		A
90	沸腾 Boiling		D	
醋 酸 Acetic acid	10-50	20		C
	10	沸腾 Boiling		D
蚁 酸 Formic acid	10-50	20		A
	10-50	沸腾 Boiling		D
柠檬酸 Citric acid	1	20		A
	1	沸腾 Boiling		D
	25	20	720	C
氨 Ammonia	溶液或气体 Solution or air	20-100		A
氢氧化钠 Sodium hydroxide	20	20		A
	20	沸腾 Boiling		A
	50	100		D
	浓 液 Thick liquid	20		A

介质条件 Medium condition			延长时间 Extended time	腐蚀情况 Corrosion condition
介质名称 Medium name	浓度 Concentration(%)	温度 Temperature(°C)	h	
草酸 Oxalic acid	浓液 Thick liquid	20		A
	浓液 Thick liquid	沸腾 Boiling		D
硝酸铵 Ammonium nitrate	约65 About 65	20	1127	A
	约65 About 65	125	110	C