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As we are constantly endeavouring to improve the performance of our equipment.

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同沐流体

ZA/E/F系列化工流程泵

ZA/E/F API SERIES CHEMICAL PROCESS PUMPS



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上海同济南汇科技产业园有限公司

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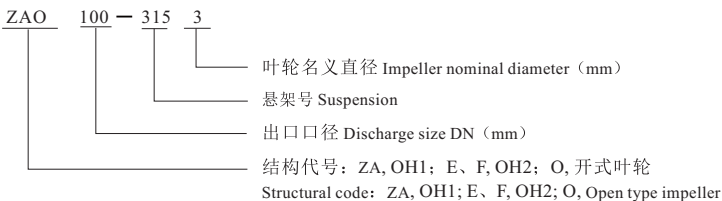
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概 述 Outline

1.1 ZA系列流程泵

该系列泵为卧式、单级离心泵、后拉出式设计，符合《石油、重化学和天然气工业用离心泵》ANSI/API 610-2004第十版和GB/T3215-2007《石油、重化学和天然气工业用离心泵》国家标准。

型号意义 Model meaning



应用范围

输送清洁和稍有污染、低温和高温、化学中性和腐蚀性介质。

主要用于:

- 炼油厂、石油化学工业、煤加工工业和低温工程
- 化学工业、造纸、纸浆业、制糖业等普通流程工业
- 供水厂和海水淡化厂
- 供暖和空气调节系统
- 电站的辅助系统
- 环境保护工程
- 船舶及海上工程

运行参数

口 径 DN	25~400mm
流 量 Q	可达2600m ³ /h
扬 程 H	可达 300m
工作压力 P	可达7.5MPa(跟材料及工作温度有关, 详见P-T图)
工作温度 t	-80℃ ~ +450℃

1.1 ZA series processing pump

This series of pumps are horizontal, single stage, back pull-out design, they meet 10th version of ANSI/API610-2004 《CENTRIFUGAL PUMPS FOR OIL, HEAVY CHEMICAL AND NATURAL GAS INDUSTRY》and National standard GB/T3215-2007 of 《CENTRIFUGAL PUMPS FOR OIL, HEAVY CHEMICAL AND NATURAL GAS INDUSTRY》.

Application range

For transferring clean and little contaminated, lower and high temperature, chemical neutral and corrosive liquid.

Mainly for:

- Refinery, petrol-chemical industry, coal processing and lower temperature engineering
- Chemical industry, paper-making, pulp, sugar and such like normal processing industry
- Water supply plant and sea water desalination
- Heat supply and air-conditioning system
- Auxiliary system of power station
- Environment protection engineering
- Ships and offshore engineering

Operating parameter

Size: 25~400mm
Capacity: up to 2600m ³ /h
Head: up to 300m
Operating pressure: up to 7.5MPa(Details will be refer to drawing of P-T, according to different temperature to select right materials)
Operating temperature: -80℃~+450℃

设计

ZA 系列为径向剖分泵壳，其中 ZA 为 API610 标准 OH1 型泵，ZAE、ZAF 为 API610 标准 OH2 型泵。通用化程度高，水力部件和轴承部件一致；系列泵型可加装保温夹套结构；泵效率高；泵体与叶轮的腐蚀裕量较大；轴采用轴套密封保护，完全与介质隔离，避免了轴的腐蚀，使泵的整体寿命得到提高；电机采用加长节膜片联轴器，维护时，可以在不拆御管路和电机，非常方便快捷。

泵体

口径 DN80 以上泵体采用双蜗壳，以平衡径向力，从而降低泵的噪音，轴承寿命得到延长；SLZA 泵体依靠底脚支撑，SLZAE、SLZAF 泵体为中心支撑。

法兰

吸入法兰水平吸入、吐出法兰垂直向上，法兰可以承受较大的管口载荷。法兰根据客户要求，可以执行 GB、HG、DIN、ANSI 标准，吸入法兰和吐出法兰具有相同的压力等级。

汽蚀性能

叶片向叶轮进口延伸，同时口径加大，泵的抗汽蚀性能优良，特殊情况下可加装诱导轮提高泵的抗汽蚀性能。

轴承和润滑

轴承悬架为一个整体，轴承采用油浴润滑，甩油环保证充分润滑，从而防止由于润滑油油位过低而引起的局部温升。根据具体工况，轴承悬架可以无冷（设有散热筋）、水冷却（设有水冷套）和风冷却（设有风扇）。轴承由迷宫式防尘盘密封。

轴封

轴封可选用填料或机封密封。
泵的密封及辅助冲洗方案按照 API682 配置，以确保泵在不同工况下的密封可靠性。

泵转向

从驱动端方向看泵为顺时针方向旋转。

Design

ZA series are with radial split casing, among which ZA are OH1 types of API60 pumps, ZAE and ZAF are OH2 types of API610 pumps. High generalization degree, no difference of hydraulic parts and bearing parts; series of pump can be installed insulation jacket structure; high pump efficiency; Bigger corrosion allowance for casing and impeller; Shaft with shaft sleeve, totally isolated to the liquid, avoid corrosion of shaft, improves lifespan of the pumpset; Motor is with extended diaphragm coupling, easy and smart maintenance, without taking apart pipes and motor.

Casing

Sizes over 80mm, casings are double volute type to balance radial thrust to improve noise and extend lifespan of the bearing; SLZA pumps are supported by foot, SLZAE and SLZAF are central support type.

Flanges

Suction flange is horizontal, discharge flange is vertical, flange can bear more pipe load. According to client's requirements, flange standard can be GB, HG, DIN, ANSI, suction flange and discharge flange have the same pressure class.

Cavitation performance

Vanes extend to suction of impeller, at the same time size of casing enlarged, thus make the pumps have better cavitation performance. For special purpose, induction wheel can be equipped to improve the anti-cavitation performance.

Bearing and lubrication

Bearing support is a wholly one, bearings are lubricated with oil bath, oil slinger can ensure enough lubrication, all these prevent somewhere temperature rise because of lower lubricating oil. According to specific work condition, bearing suspension can be non-cooling (with steel heat), water cooling (with water cooling jacket) and air cooling (with fan). Bearings are sealed by labyrinth dustproof disc.

Shaft seal

Shaft seal can be packing seal and mechanical seal.
Seal of pump and auxiliary flush plan will be in accordance with API682 to ensure safe and reliable seal in different work condition.

Pump rotation direction

CW viewed from drive end.

1. 2 各型号运行参数

ZA 系列流程泵

口 径 DN	25~400mm
流 量 Q	可达 2600m ³ /h
扬 程 H	可达 300m
工作压力 P	可达 2.5MPa (跟材料及工作温度有关, 详见 P-T 图)
工作温度 t	-80℃ ~ +177℃

该型泵为 API610 OH1 型泵。

ZAE 系列流程泵

口 径 DN	25~400mm
流 量 Q	可达 2600m ³ /h
扬 程 H	可达 300m
工作压力 P	可达 5.0MPa (跟材料及工作温度有关, 详见 P-T 图)
工作温度 t	-80℃ ~ +450℃

该型泵为 API610 OH2 型泵。

ZAF 系列流程泵

口 径 DN	25~400mm
流 量 Q	可达 2600m ³ /h
扬 程 H	可达 300m
工作压力 P	可达 7.5MPa (跟材料及工作温度有关, 详见 P-T 图)
工作温度 t	-80℃ ~ +450℃

该型泵为 API610 OH2 型泵。

ZA0 系列流程泵

该系列泵为卧式、单级离心泵、后拉出式设计，符合《石油、重化学和天然气工业用离心泵》ANSI/API 610-2004 第十版和 GB/T3215-2007《石油、重化学和天然气工业用离心泵》国家标准；根据压力不同，该系列 API610 标准 OH1、OH2 型泵。

应用范围

输送稍有污染、高粘度、化学中性和腐蚀性介质。

1.2 Operation parameter of each model

ZA series processing pump

Size: 25~400mm
Capacity: up to 2600m ³ /h
Head: up to 300m
Operating pressure: up to 2.5MPa (Details will be refer to drawing of P-T, according to different temperature to select right materials)
Operating temperature: -80℃ ~ +177℃

This type is API610 OH1 type pumps.

ZAE series processing pump

Size: 25~400mm
Capacity: up to 2600m ³ /h
Head: up to 300m
Operating pressure: up to 5.0MPa (Details will be refer to drawing of P-T, according to different temperature to select right materials)
Operating temperature: -80℃ ~ +450℃

This type is API610 OH2 type pumps.

ZAF series processing pump

Size: 25~400mm
Capacity: up to 2600m ³ /h
Head: up to 300m
Operating pressure: up to 7.5MPa (Details will be refer to drawing of P-T, according to different temperature to select right materials)
Operating temperature: -80℃ ~ +450℃

This type is API610 OH2 type pumps.

ZA0 series processing pump

This series of pumps are horizontal, single stage, back pull-out design, they meet 10th version of ANSI/API610-2004《CENTRIFUGAL PUMPS FOR OIL, HEAVY CHEMICAL AND NATURAL GAS INDUSTRY》and National standard GB/T3215-2007 of《CENTRIFUGAL PUMPS FOR OIL, HEAVY CHEMICAL AND NATURAL GAS INDUSTRY》. This type is API610 OH1, OH2 type pumps according to pressure.

Application range

For transferring little contaminated, high viscosity, chemical neutral and corrosive liquid.

主要用于:

- 炼油厂、石油化学工业、煤加工工业和低温工程
- 化学工业、造纸、纸浆业、制糖业等普通流程工业
- 海水淡化厂
- 电站的辅助系统
- 环境保护工程
- 船舶及海上工程

运行参数

口 径 DN	40~400mm
流 量 Q	可达2000m ³ /h
扬 程 H	可达220m
工作压力 P	可达5.0MPa(跟材料及工作温度有关, 详见P-T图)
工作温度 t	可达+450℃

设计

ZAO 系列为径向剖分泵壳, API610 标准 OH1、OH2 型泵。通用化程度高, 水力部件和轴承部件与 ZA、ZAE 系列一致; 叶轮为开式或者半开式, 配合可更换的泵体前后耐磨板, 适用于输送含有颗粒、渣浆以及具有粘性的各种介质。轴采用轴套密封保护, 完全与介质隔离, 避免了轴的腐蚀, 使泵的整体寿命得到提高; 电机采用加长节膜片联轴器, 维护时, 可以在不拆卸管路和电机, 非常方便快捷。

泵体

口径 DN80 以上泵体采用双蜗壳, 以平衡径向力, 从而降低泵的噪音, 轴承寿命得到延长; 泵体采用中心或者底脚 (根据压力不同) 支撑。

法兰

吸入法兰水平吸入、吐出法兰垂直向上, 法兰可以承受较大的管口载荷。法兰根据客户要求, 可以执行 GB、HG、DIN、ANSI 标准, 吸入法兰和吐出法兰具有相同的压力等级。

Mainly for:

- Refinery, petrol-chemical industry, coal processing and lower temperature engineering
- Chemical industry, paper-making, pulp, sugar and such like normal processing industry
- Sea water desalination
- Auxiliary system of power station
- Environment protection engineering
- Ships and offshore engineering

Operating parameter

Size: 40~400mm
Capacity: up to 2000m ³ /h
Head: up to 220m
Operating pressure: up to 5.0MPa (Details will be refer to drawing of P-T, according to different temperature to select right materials)
Operating temperature: up to +450℃

Design

ZAO series are with radial split casing, and OH1 types of API610 pumps, ZAE and ZAF are OH2 types of API610 pumps. High generalization degree, Hydraulic parts and bearings are same as ZA and ZAE series; Impeller is open or semi-open type, matched with front and back wear-resistant plate, applicable for transferring various liquids with solid, slag, oars, viscous fluid etc. Shaft with shaft sleeve, totally isolated to the liquid, avoid corrosion of shaft, improves lifespan of the pump set; Motor is with extended diaphragm coupling, easy and smart maintenance, without taking apart pipes and motor.

Casing

Sizes over 80mm, casings are double volute type to balance radial thrust to improve noise and extend lifespan of the bearing; ZA pumps are supported by foot, ZAE and ZAF are central support type.

Flanges

Suction flange is horizontal, discharge flange is vertical, flange can bear more pipe load. According to client's requirements, flange standard can be GB, HG, DIN, ANSI, suction flange and discharge flange have the same pressure class.

汽蚀性能

叶片向叶轮进口延伸, 同时口径加大, 使泵的抗汽蚀性能优良, 特殊情况下可设计诱导轮达到更好的抗汽蚀性能。

轴承和润滑

轴承悬架为一个整体, 驱动端轴承采用轴承盒安装, 可不拆卸泵的情况下, 外部抽油, 调整叶轮与前后耐磨板的工作间隙。轴承采用油浴润滑, 甩油环保证充分润滑, 从而防止由于润滑不充分而引起的局部温升。根据具体工况, 轴承悬架可以无冷 (设有散热筋)、水冷 (设有水冷套) 和风冷 (设有风扇)。轴承由迷宫式防尘盘密封。

轴封

轴封可选用填料或机封密封。

泵的密封及辅助冲洗方案按照 API682 配置, 以确保泵在不同工况下的密封可靠性。

泵转向

从驱动端方向看泵为顺时针方向旋转。

更加详细的技术数据和运行极限见我公司的有关技术资料。

Cavitation performance

Vaness extend to suction of impeller, at the same time size of casing enlarged, thus make the pumps have better cavitation performance. For special purpose, induction wheel can be equipped to improve the anti-cavitation performance.

Bearing and lubrication

Bearing support is a wholly one, bearings are lubricated with oil bath, oil slinger can ensure enough lubrication, all these prevent somewhere temperature rise because of lower lubricating oil. According to specific work condition, bearing suspension can be non-cooling (with steel heat), water cooling (with water cooling jacket) and air cooling (with fan). Bearings are sealed by labyrinth dustproof disc.

Shaft seal

Shaft seal can be packing seal and mechanical seal.

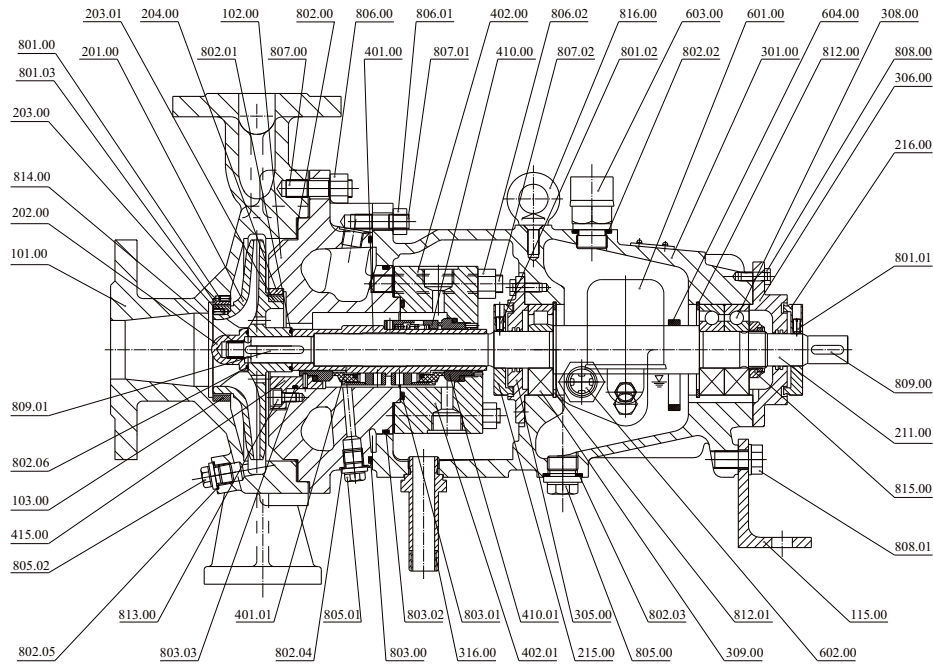
Seal of pump and auxiliary flush plan will be in accordance with API682 to ensure safe and reliable seal in different work condition.

Pump rotation direction

CW viewed from drive end.

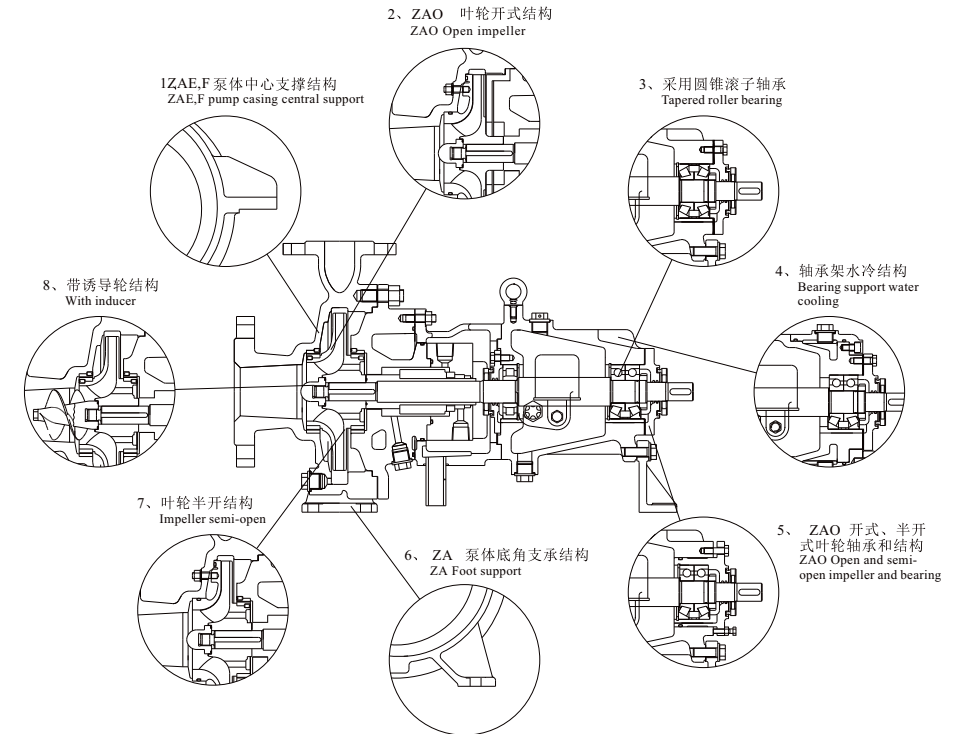
More detailed technical data and operating condition will be referred to related technical information of our company.

结构图 Structure drawing

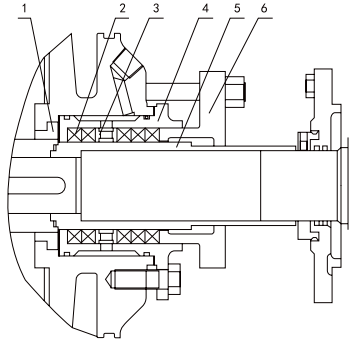


101.00	泵体 Pump casing	211.00	轴 Shaft	401.00	轴套 Bearing sleeve	603.00	油分离器 Oil separator	808.00	螺栓 Bolt
102.00	泵盖 Pump cover	215.00	前折流盘 Front baffle plate	401.01	轴套 Bearing sleeve	604.00	甩油环 Oil slinger	809.00	键 Key
103.00	泵体口环 Casing wear ring	216.00	后折流盘 After baffle plate	402.00	机封压盖 Machine seal gland	801.00	螺钉 Screw	812.00	弹性挡圈 The circlip
115.00	支脚 Support	301.00	轴承箱体 Bearing housing	402.01	机封压盖 Machine seal gland	802.00	密封垫片 Sealing gasket	813.00	螺钉 Screw
201.00	叶轮 Impeller	305.00	前轴承盖 Front bearing gland	410.00	机械密封 Mechanical seal	802.06	密封垫片 Sealing gasket	814.00	钢丝螺套 Wire threaded sleeve
202.00	叶轮螺母 Impeller nut	306.00	后轴承盖 After bearing gland	410.01	机械密封 Mechanical seal	803.00	O型圈 O-ring	815.00	圆螺母 Round nut
203.00	叶轮前口环 Front wear ring of impeller	308.00	轴承 Bearing	415.00	内压盖 Internal gland	805.00	螺塞 Plug	816.00	吊环螺钉
203.01	叶轮后口环 Back wear ring of impeller	309.00	轴承 Bearing	601.00	恒位油杯 Constant level oiler	806.00	螺母 Nut		
204.00	泵盖口环 Cover wear ring	316.00	排残液管 Discharge the residual liquid pipe	602.00	油窗 Oil window	807.00	螺柱 Stud		

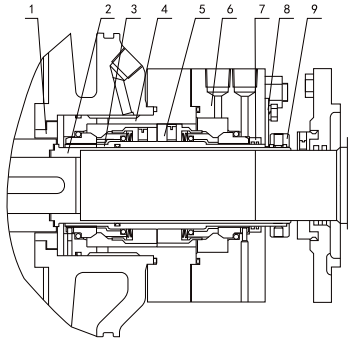
结构变形 Structure evolution



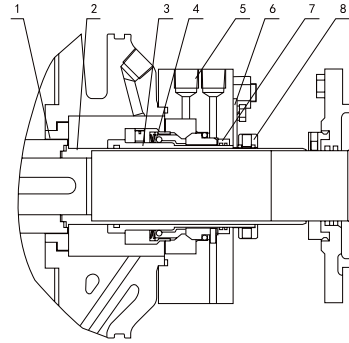
轴封部面图 Cross-sectional drawing of shaft seal

填料密封
Packing seal

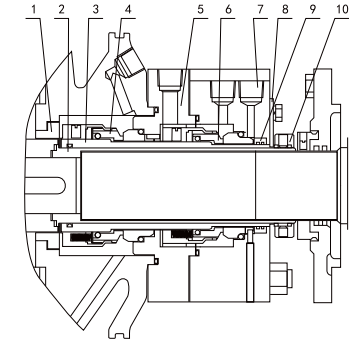
1 喉部衬套 Throat sleeve	2 填料 Packing	3 水封环 Water seal ring	4 填料衬套 Packing bush
5 轴套 Shaft sleeve	6 填料压盖 Packing gland		

“背靠背”双端面机封
Back to back double mechanical seal

1 喉部衬套 Throat sleeve	2 护轴套 Shaft bush	3 轴套 Shaft sleeve	4 静环座 Static ring seat
5 机械密封 Mechanical seal	6 密封压盖 Seal gland	7 节流衬套 Throttle sleeve	8 定位板 Position plate
9 调整环 Adjusting ring			

单端面机封
Single mechanical seal

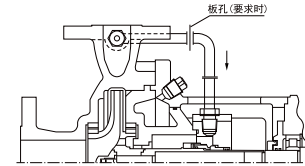
1 喉部衬套 Throat sleeve	2 护轴套 Shaft bush	3 轴套 Shaft sleeve	4 机械密封 Mechanical seal
5 密封压盖 Seal gland	6 定位板 Position plate	7 节流衬套 Throttle sleeve	8 调整环 Adjusting ring

“串联”双端面机封
Tandem double mechanical seal

1 喉部衬套 Throat sleeve	2 护轴套 Shaft bush	3 轴套 Shaft sleeve	4 机械密封 Mechanical seal
5 静环座 Static ring seat	6 机械密封 Mechanical seal	7 密封压盖 Seal gland	8 定位板 Position plate
9 节流衬套 Throttle sleeve	10 调整环 Adjusting ring		

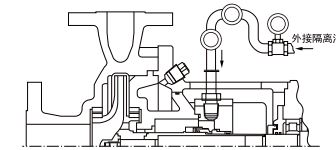
API682典型密封冲洗方案图 API682 classic seal flush plan drawing

PLAN11: 工作介质从泵出口经过管路进入密封腔
Working fluid enters seal housing through pipeline from pump discharge



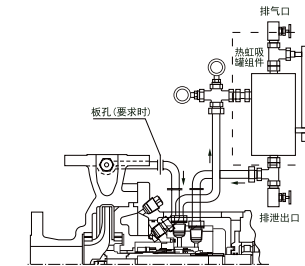
该方案主要用于凝结水，常温汽、柴油等。（高温不能采用此方案）
The plan mainly for condensed water, normal temperature steam, diesel etc. (Not for high temperature condition)

PLAN32: 冲洗液从外部引入密封腔
Flush from outside



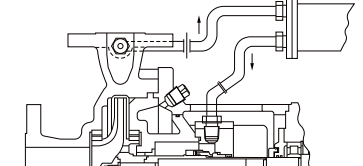
该方案主要用于含有固体颗粒或含有杂质的情况。（注意外来冲洗液避免对介质产生影响）
Flush fluid enters seal housing from outside, the plan mainly for liquid with solid or impurities. (Attention outside flush fluid affect the liquid pumped)

PLAN11+52: 串联双端面机械密封典型冲洗方案，前端密封11方案后端密封无压冲洗，后端密封带效应环。
Classic flush plan for tandem double mechanical seal, front seal plan 11, back non-pressure flush, back seal with effect ring.



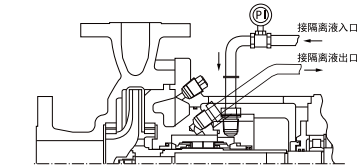
注：以上冲洗方案为常用密封方案中的一部分，本公司会根据客户提供的具体工况配备最适用的密封方案。
Attention: Above are only part of normal seal plans, according to specific work condition, we can supply the best seal plan.

PLAN21: 循环液从泵出口通过换热器降温进入密封腔
Circulating liquid enters sealing housing cooled by heat-exchanger at discharge of pump

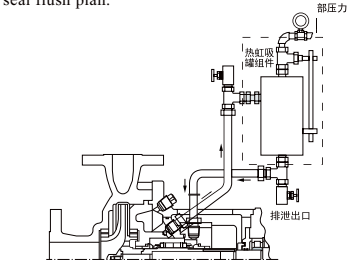


该方案主要用于高温纯净的工作介质中。
Circulating fluid enters seal housing after cooled by heater exchanger from pump discharge.

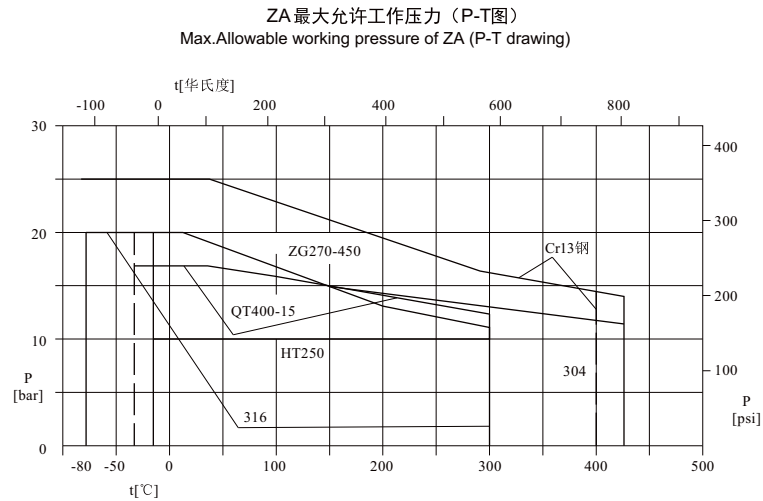
PLAN54: 外接液源提供冲洗的背靠背双端面机封
Back to back double mechanical seal for outside flush resource



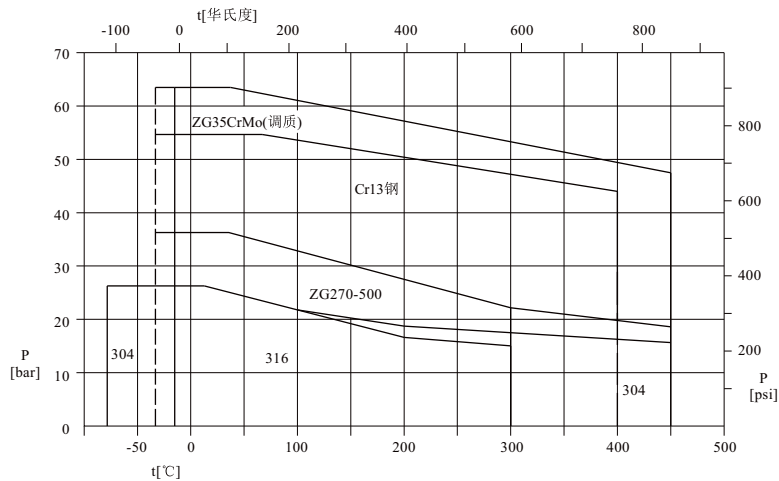
PLAN53: 循环有压介质冲洗的背靠背双端面机械密封，也可用于串联双端面机械密封后端密封冲洗方案。
Circulating pressured liquid flush BACK TO BACK double mechanical seal, can also be for tandem double mechanical seal back seal flush plan.



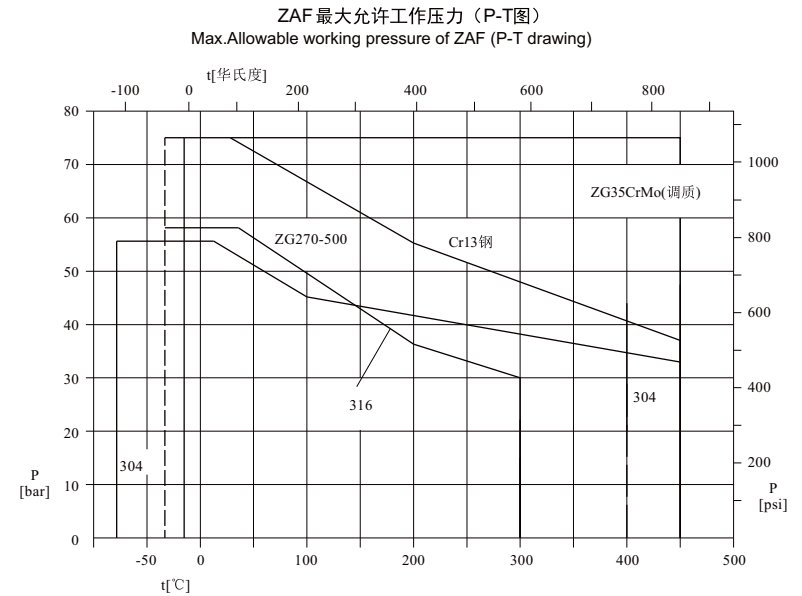
最大允许工作压力(P-T图) Max. allowable working pressure (P-T drawing)



ZAE最大允许工作压力 (P-T图)
Max. Allowable working pressure of ZAE (P-T drawing)



最大允许工作压力(P-T图) Max. allowable working pressure (P-T drawing)



注: ZAO根据承压等级分别与ZA、ZAE-P-T图相同。

Note: According to pressure level, ZAO can have same P-T drawing as ZA, ZAE.

驱动功率的规定 Provisions of drive power

计算驱动机功率时, 按照API610 (第十版) 6.1节

Refer to section 6.1 in 10th version API610 Table 11:

表11配置:

额定功率 Rated power		泵额定功率的百分比% Percentage of rated power
kW	hp	
<22	<30	125
22~55	30~75	115
>55	>75	110

当泵送介质比重大于1时, 应注意所选的电机功率用常温清水做试验时已经不够, 这在装置首次开车以水冲洗管路时应串联运行。若泵工作在部分载荷区, 根据工况应取较大的余量。

If specific gravity of transferred liquid is more than 1, please pay attention that motor power selected as clean water at normal temperature for test is not enough, the set should be in series operation when first startup and flush with water. If pump operates at some load area, according to specific condition, big alliance should be selected.

粘性介质 Viscous liquid

当泵以相同转速和流量输送粘性介质时，与清水比较扬程将下降，同时因为摩擦损失加大，轴功率增大。

当泵送介质粘度 $V \geq 20 \text{ mm}^2/\text{s}$ 时，对 Q 、 H 、 η 必须考虑一个修正系数（见粘性介质修正表），应该注意最大允许功率不能超出上面的规定值。

动力粘度 μ : $1\text{p}=1\text{dyn}\times\text{s}/\text{cm}^2=0.1\text{N}\times\text{s}/\text{m}^2=0.1\text{Pa}\times\text{s}$
 $1\text{cp}=0.01\text{P}=1\text{mmPa}\times\text{s}(1\text{厘泊}=1\text{毫泊}\times\text{s})$

运动粘度 ν : $\nu=\mu/\gamma$ [式中: ν -厘拖 (cst); $1\text{cst}=\text{mm}^2/\text{s}$]; μ -厘泊 (cp); γ -比重]

常温水的动力粘度为 1cp ，运动粘度为 1cst 。

美国水力协会修正表只适合下述情况：

- 1)只适合牛顿流体，不适合固体混合物、纸胶料或其他非均匀质的介质；
 - 2)只适合开式或闭式离心叶轮（不适合混流或轴流叶轮）；
 - 3)有足够的装置汽蚀余量NPSHA；
 - 4)流量、扬程或粘度在水力协会修正表范围之内。
- 应注意对多级泵只取单级扬程；对双吸泵只取流量的一半。**

示例：已知：粘性介质 $Q_v=125\text{m}^3/\text{h}$ $H_v=78\text{m}$

$$\nu=75\text{mm}^2/\text{s} \quad \rho=0.9\text{kg}/\text{m}^3$$

推导出水性能 Q_w ， H_w ， P_w

从水力协会修正表可得 $C_Q=0.98$ $C_H=0.95$ $C_\eta=0.79$

故水性能为：

$$Q_w=Q_v/C_Q=125/0.98=127.5\text{m}^3/\text{h}$$

$$H_w=H_v/C_H=78/0.95=82\text{m}$$

选型：ZA80-250 (n=2950rpm)

查曲线 $\eta=0.74$ ，则粘性介质 $\eta_v=\eta_w\times C_\eta=0.74\times 0.79=0.585$

粘性介质输出功率：

$$P_v=\frac{Q_v\times H_v\times \rho_v}{367\times \eta_v}=\frac{125\times 78\times 0.9}{367\times 0.585}=40.9\text{kW}$$

When pumps transfer viscous liquid at same speed and capacity, comparing to clean water, head will be down, shaft power will be bigger because of more scratching lose.

When viscosity of liquid pumped is not less than $20\text{mm}^2/\text{s}$, there will be a correction coefficient to capacity Q , head H and efficiency η (Referring to viscous liquid correction table), please pay attention that max allowed power can not be over the value listed therein.

Dynamic viscosity μ : $1\text{p}=1\text{dyn}\times\text{s}/\text{cm}^2=0.1\text{N}\times\text{s}/\text{m}^2=0.1\text{Pa}\times\text{s}$
 $1\text{cp}=0.01\text{P}=1\text{mmPa}\times\text{s}(1\text{TABOR}=1\text{TABOR HAIR}\times\text{s})$

Motion viscosity ν : $\nu=\mu/\gamma$ [式中: ν -OFF (cst); $1\text{cst}=\text{mm}^2/\text{s}$]; μ -TABOR (cp); γ -SG]

Dynamic viscosity of normal temperature water is 1cp , motion viscosity is 1cst .

Correction table of USA hydraulic association can only be available for the following:

- 1) Only available for NEWTON fluid, not for solid compound, paper rubber material or other non-uniform qualitative liquid;
- 2) Only available for open or close centrifugal impellers (not for axial or mixed flow impeller)
- 3) There is enough NPSHA;
- 4) Capacity, head and viscosity is within range of CORRECTION TABLE.

Attention that single stage head can only be considered for multistage pumps, half of the capacity will be selected for double suction centrifugal pumps.

For example:

Known: viscous liquid $Q_v=125\text{m}^3/\text{h}$ $H_v=78\text{m}$

$$\nu=75\text{mm}^2/\text{s} \quad \rho=0.9\text{kg}/\text{m}^3$$

Deduced water performance Q_w ， H_w ， P_w

From CORRECTION TABLE we can get $C_Q=0.98$
 $C_H=0.95$ $C_\eta=0.79$

So water performance is:

$$Q_w=Q_v/C_Q=125/0.98=127.5\text{m}^3/\text{h}$$

$$H_w=H_v/C_H=78/0.95=82\text{m}$$

Model selection: ZA80-250 (n=2950rpm)

Check curve, if $\eta=0.74$, viscous liquid $\eta_v=\eta_w\times C_\eta=0.74\times 0.79=0.585$

Output power of viscous liquid:

$$P_v=\frac{Q_v\times H_v\times \rho_v}{367\times \eta_v}=\frac{125\times 78\times 0.9}{367\times 0.585}=40.9\text{kW}$$

ZA、ZE、ZF SERIES PROCESS PUMP

同沐流体

水的输出功率：

$$P_w=\frac{Q_w\times H_w\times \rho_w}{367\times \eta_{vw}}=\frac{127.5\times 82\times 1}{367\times 0.74}=38.5\text{kW}$$

曲线的修正

若已知水的曲线，希望确定粘性介质的曲线，则应首先确定水曲线的最佳效率点的 Q_{00} ， H_{00} 这样以

$0.6Q_{00}$ 、 $0.8Q_{00}$ 、 $1.2Q_{00}$ 计算 C_H 、 C_Q 、 C_η

以上述ZA80-250为例：

$$0.6Q_{00}: C_H=0.97 \quad C_Q=0.98 \quad C_\eta=0.79$$

$$0.8Q_{00}: C_H=0.96 \quad C_Q=0.98 \quad C_\eta=0.79$$

$$1.0Q_{00}: C_H=0.95 \quad C_Q=0.98 \quad C_\eta=0.79$$

$$1.2Q_{00}: C_H=0.93 \quad C_Q=0.98 \quad C_\eta=0.79$$

Output power of water:

$$P_w=\frac{Q_w\times H_w\times \rho_w}{367\times \eta_{vw}}=\frac{127.5\times 82\times 1}{367\times 0.74}=38.5\text{kW}$$

Correction of curve

If water curve is known, viscous liquid curve need be known, then Q_{00} ， H_{00} of BEP of water curve should be set, $0.6Q_{00}$ 、 $0.8Q_{00}$ 、 $1.2Q_{00}$ then by calculation C_H 、 C_Q 、 C_η
 Make ZA80-250 as example

$$0.6Q_{00}: C_H=0.97 \quad C_Q=0.98 \quad C_\eta=0.79$$

$$0.8Q_{00}: C_H=0.96 \quad C_Q=0.98 \quad C_\eta=0.79$$

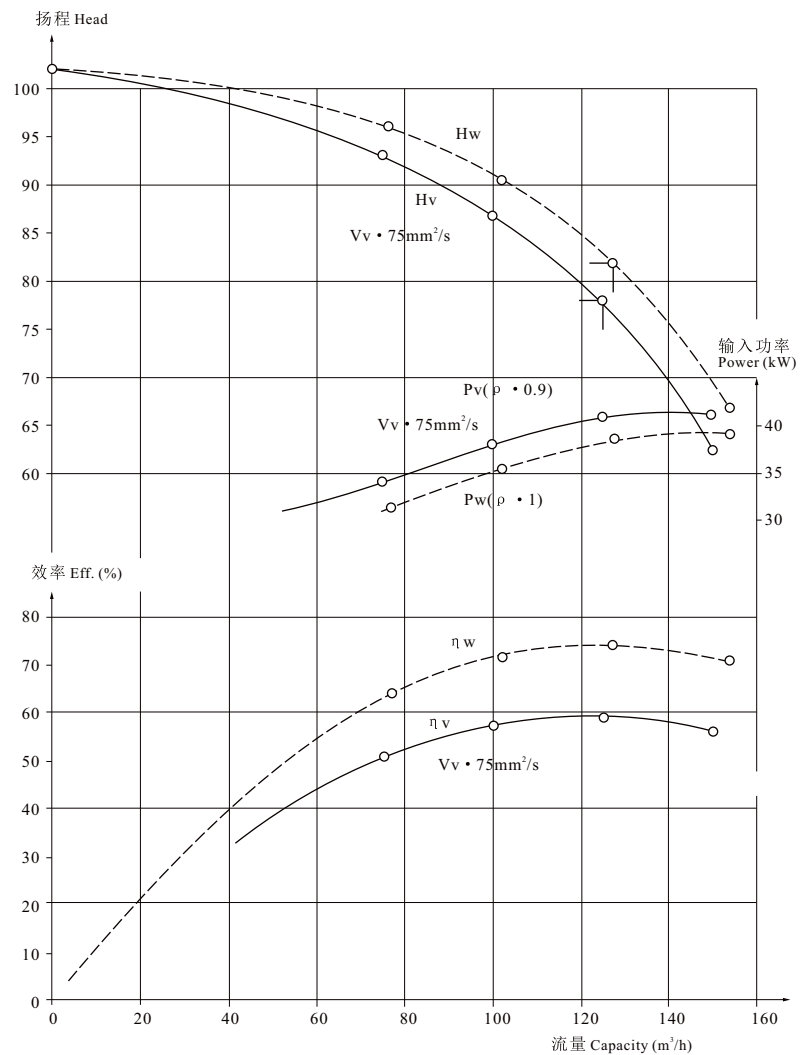
$$1.0Q_{00}: C_H=0.95 \quad C_Q=0.98 \quad C_\eta=0.79$$

$$1.2Q_{00}: C_H=0.93 \quad C_Q=0.98 \quad C_\eta=0.79$$

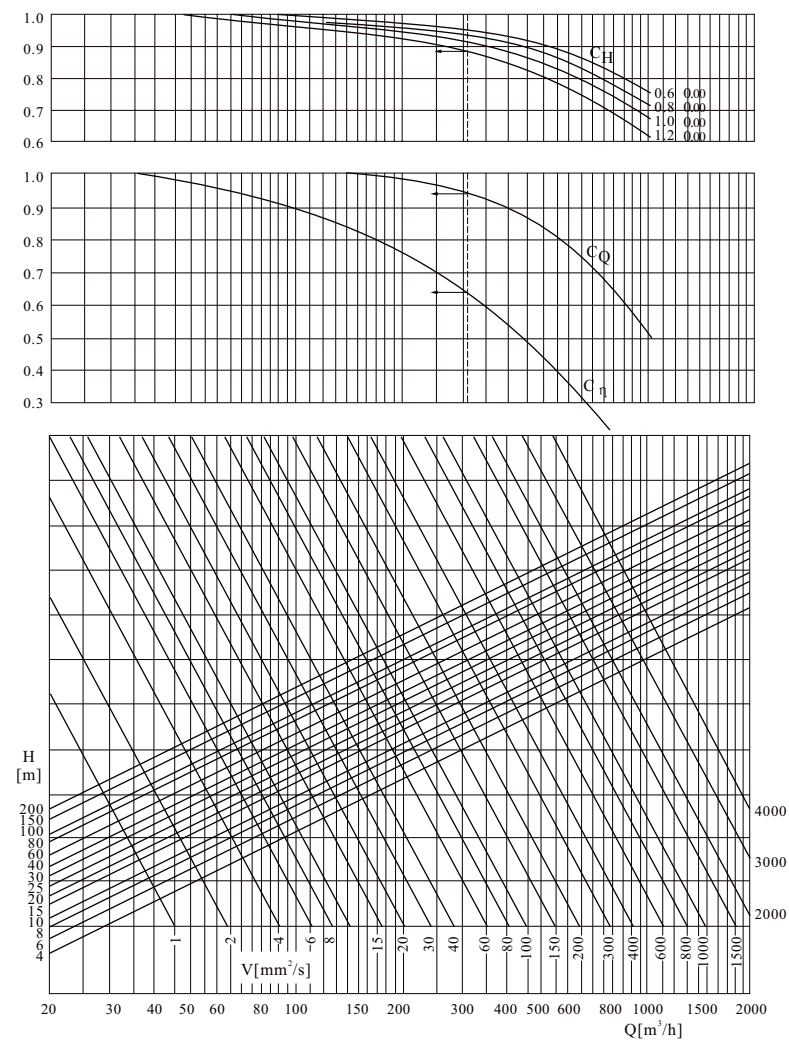
转换泵曲线计算表 Conversion pump curve calculating table:

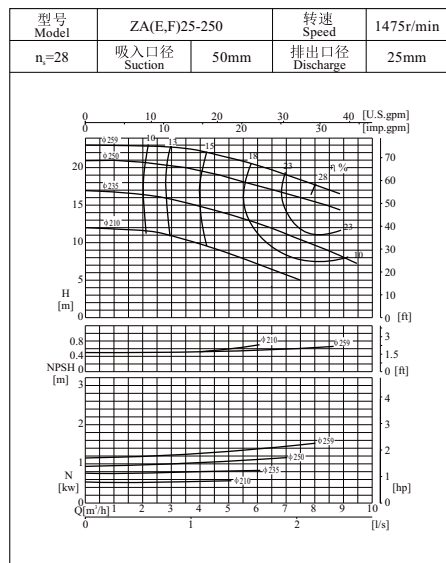
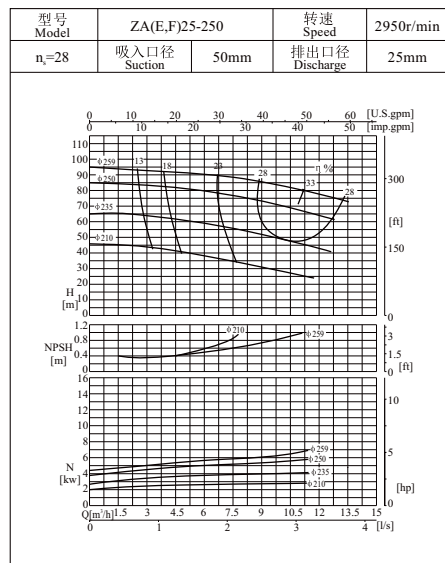
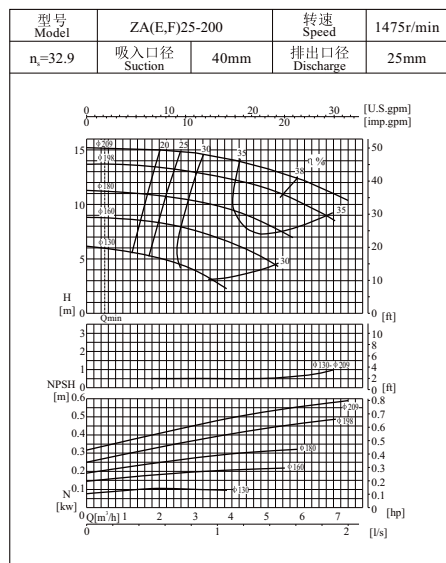
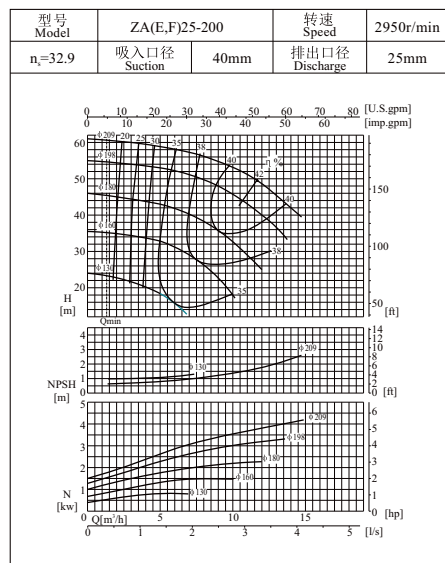
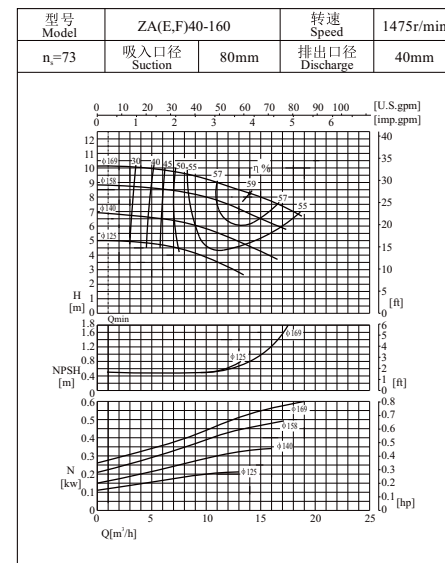
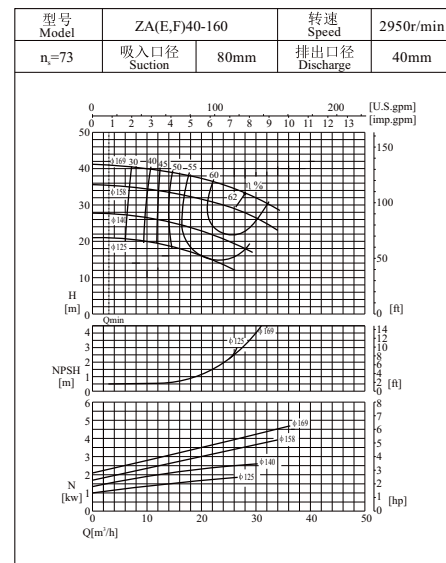
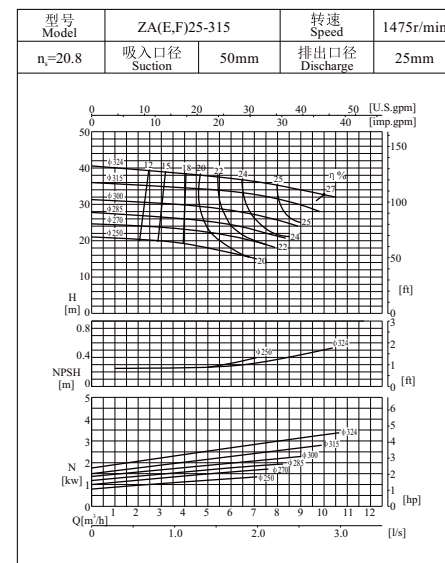
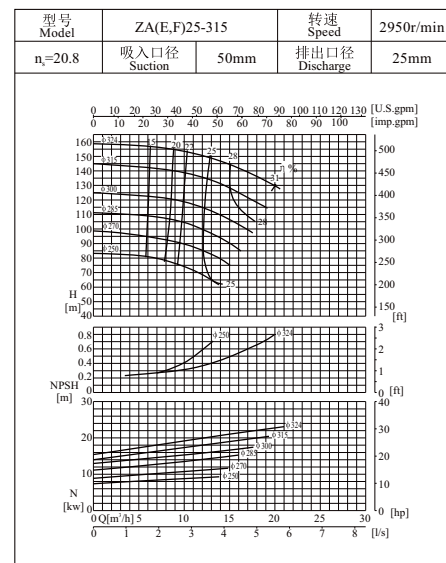
	Q=	0.6Q ₀₀	0.8Q ₀₀	1.0Q ₀₀	1.2Q ₀₀	
水 Water	Q _w (m³/h)	76.53	102	127.5	153	
	H _w (m)	96	90.5	82	67	
	η (%)	64	71.5	74	71	
	P _w (kw)	31.3	35.2	38.5	39.3	
粘性介质 Viscous liquid	粘度 viscosity V _v (mm²/s)		75			
	修正系数 Correction coefficient	C _Q	0.98			
		C _η	0.79			
		C _H	0.97	0.96	0.95	0.93
	Q _v =Q _w ×C _Q		75	100	125	150
	H _v =H _w ×C _H		93.1	86.9	78	62.3
	η _v =η _w ×C _η		50.5	56.5	58.5	56.1
	ρ _v = (kg/m³)		0.9			
	P _V (KW)		33.9	37.7	40.9	40.8

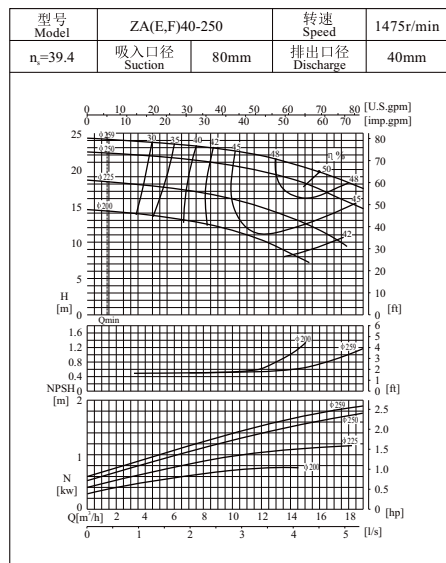
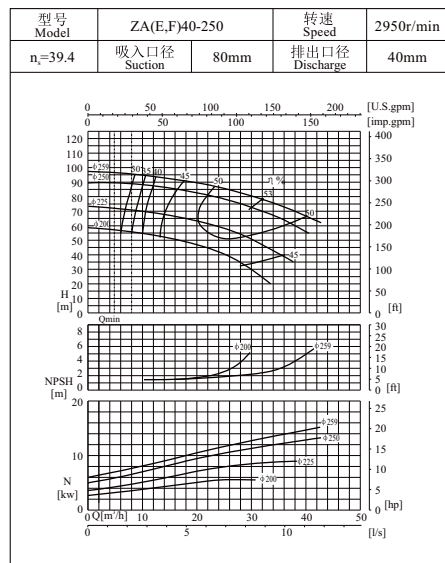
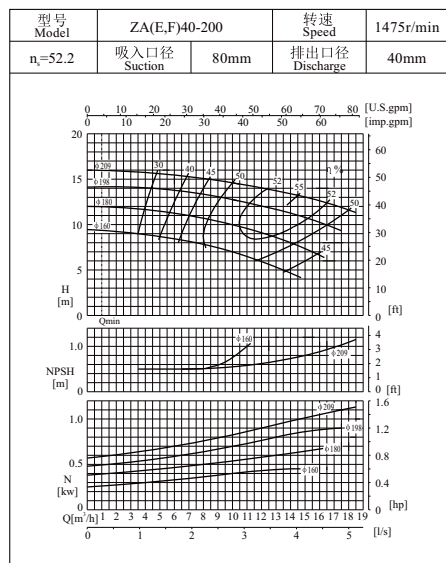
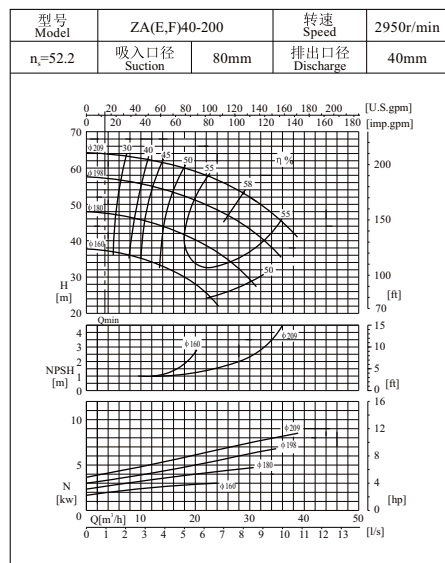
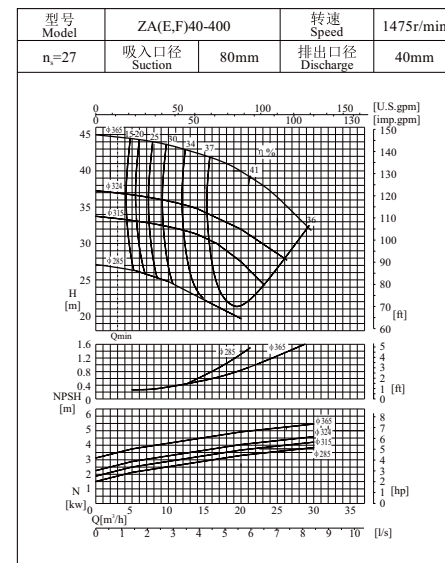
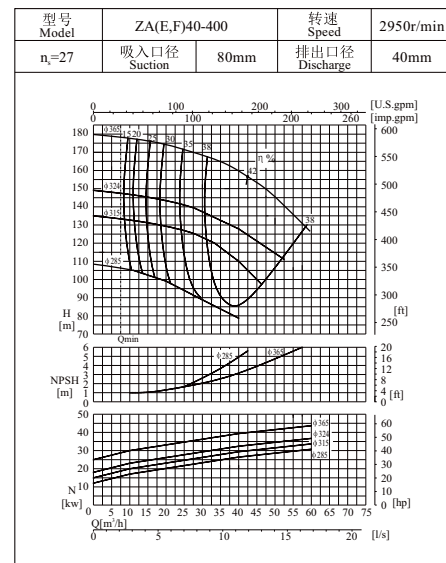
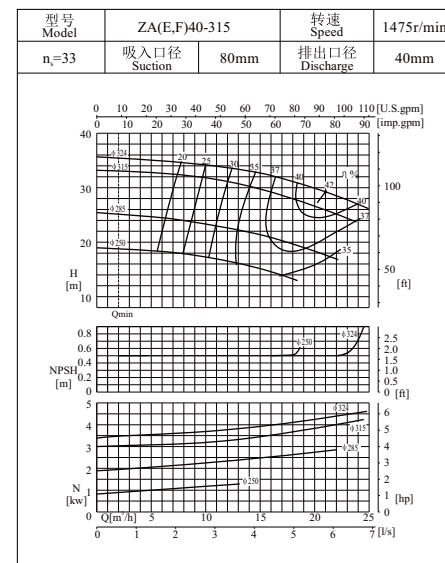
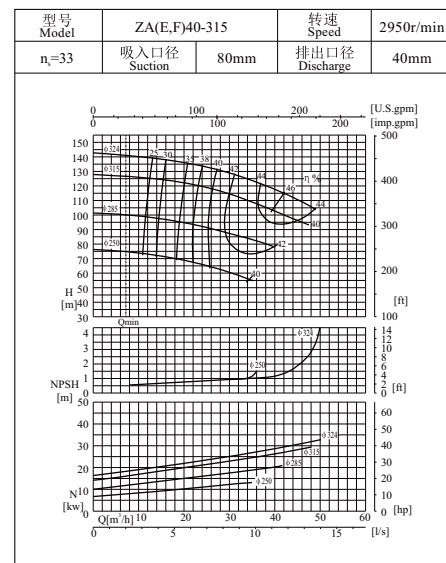
输送水和粘性介质的曲线
Curve of transfer water and viscous liquid

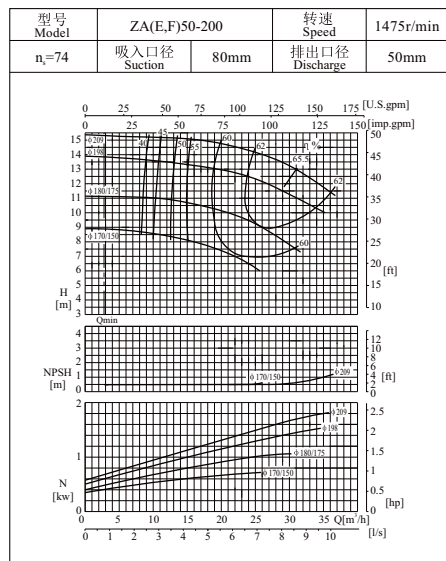
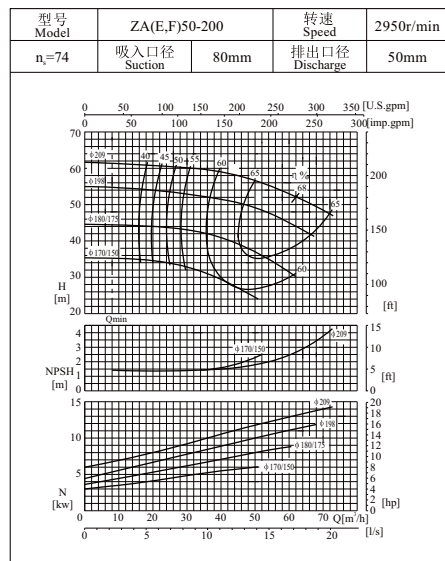
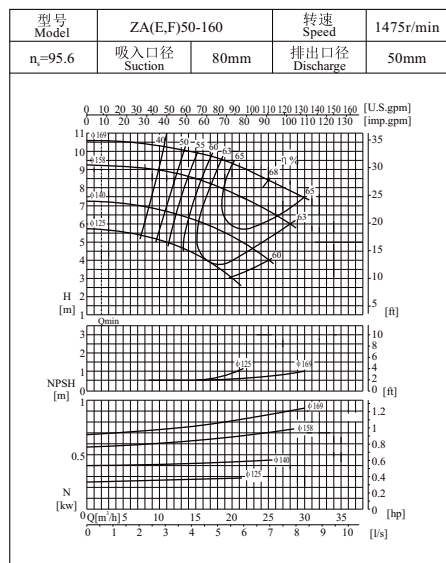
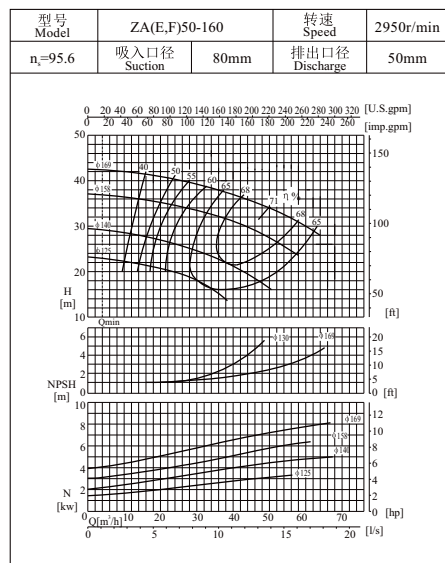
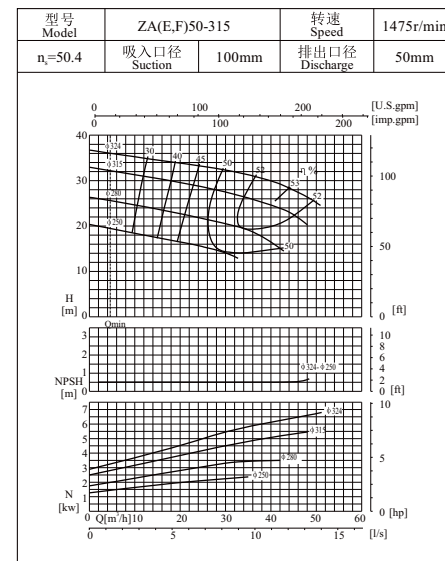
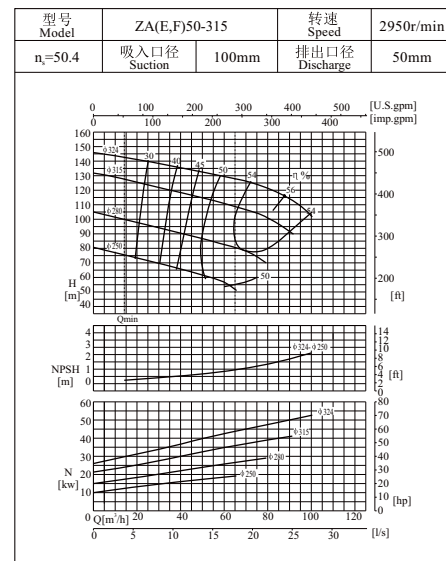
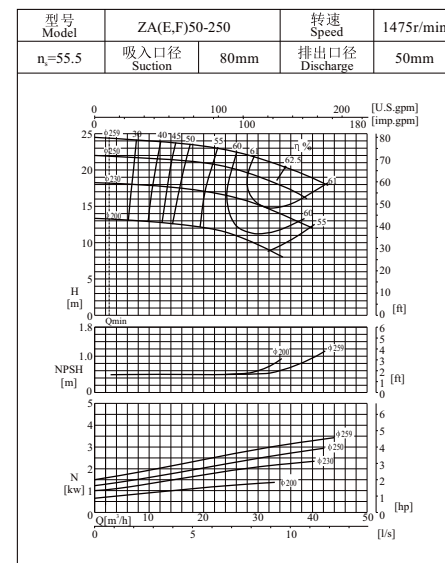
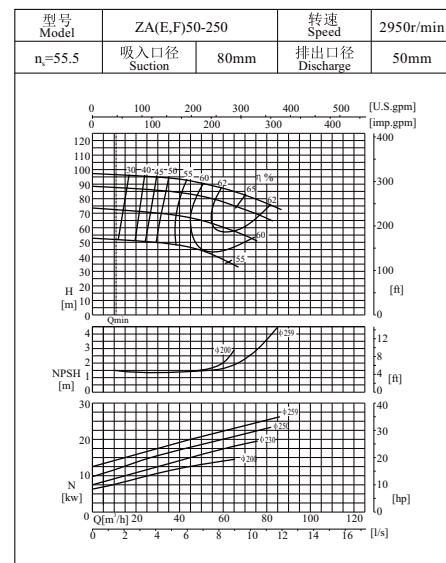


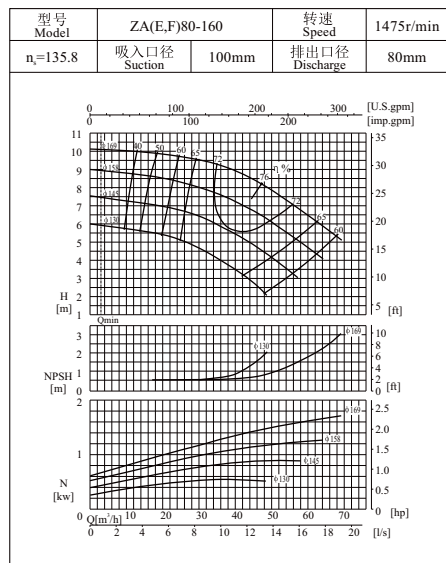
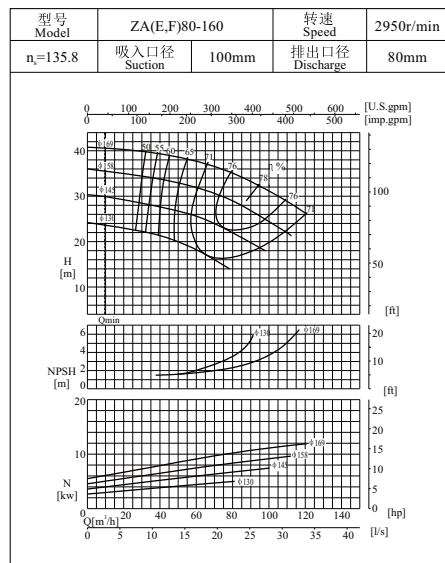
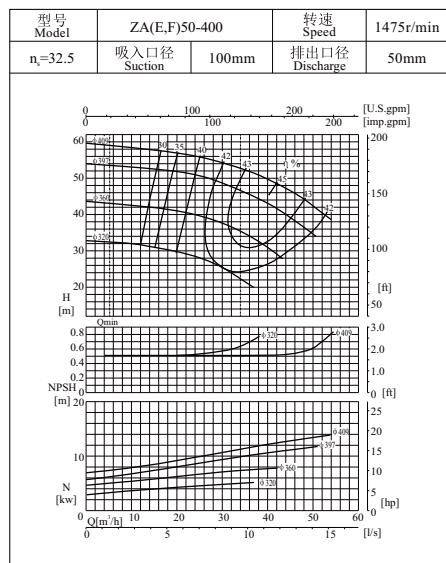
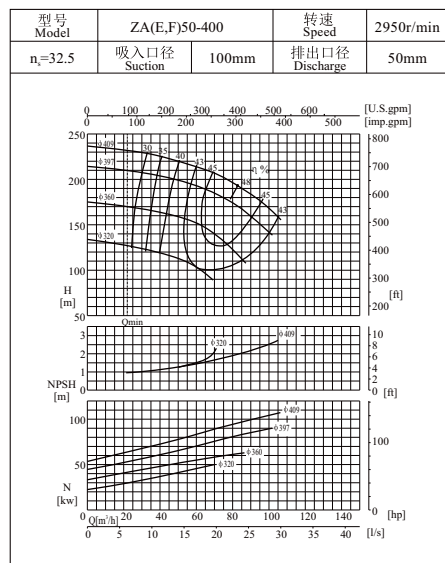
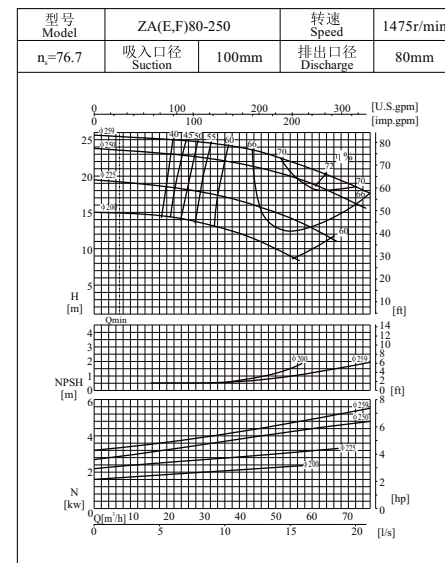
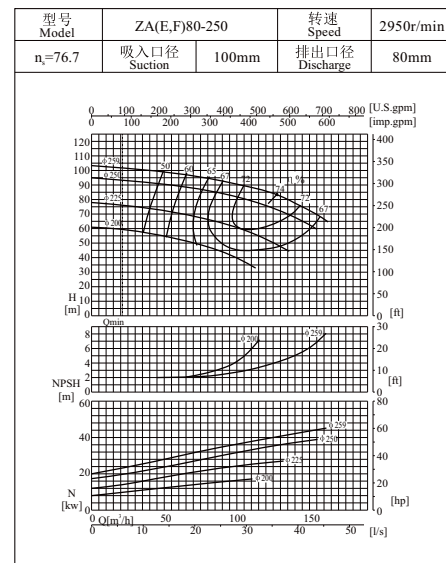
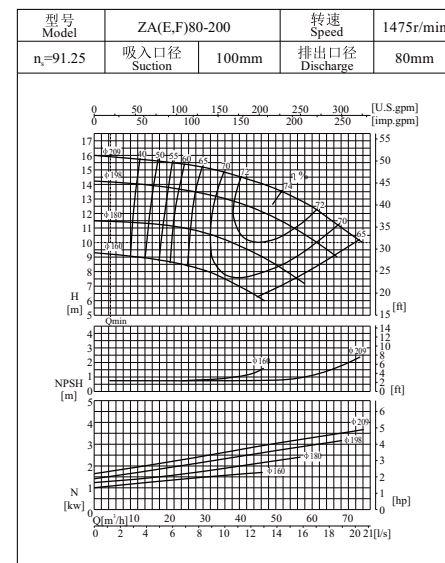
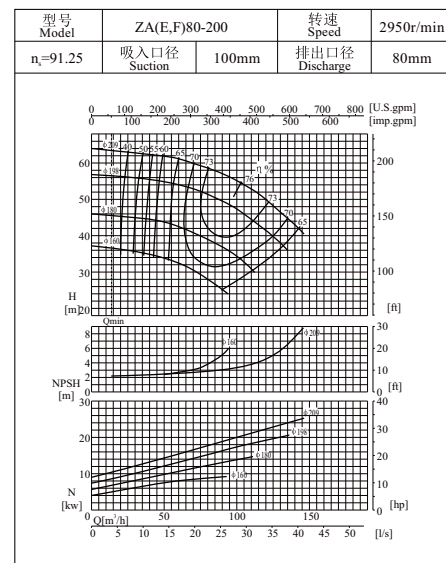
粘性介质修正表
Correction list of viscous liquid

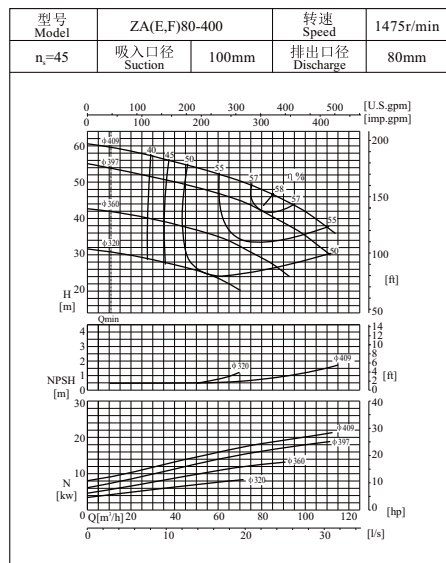
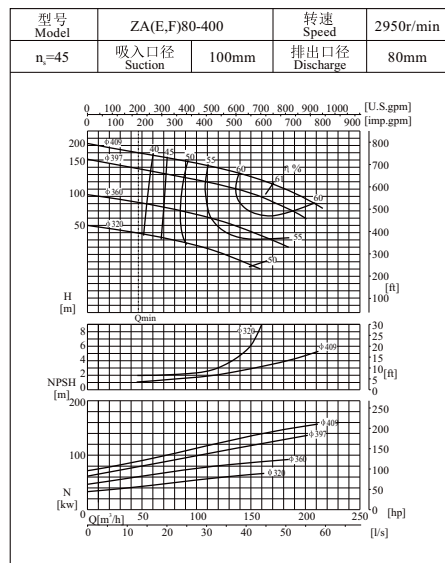
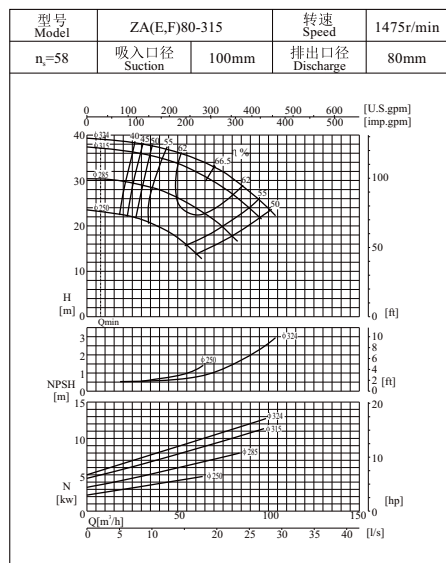
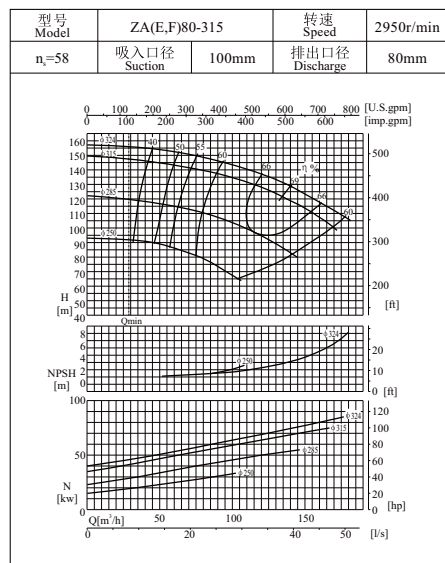
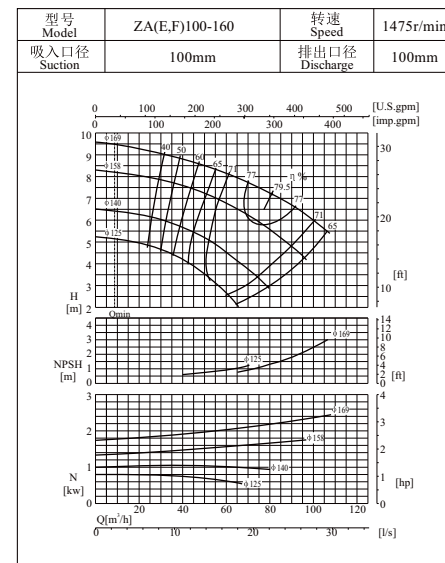
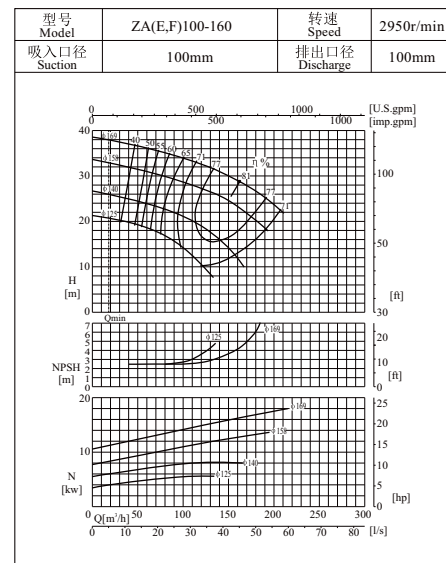
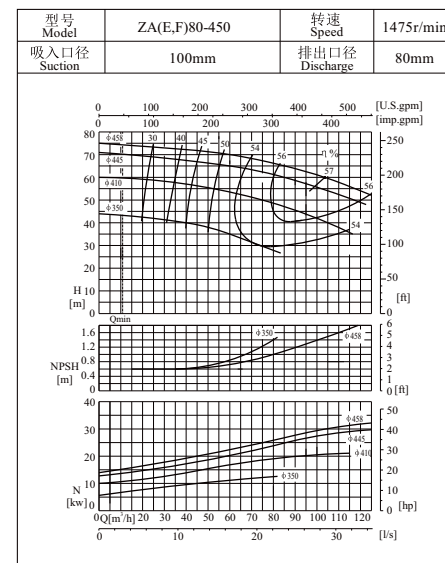
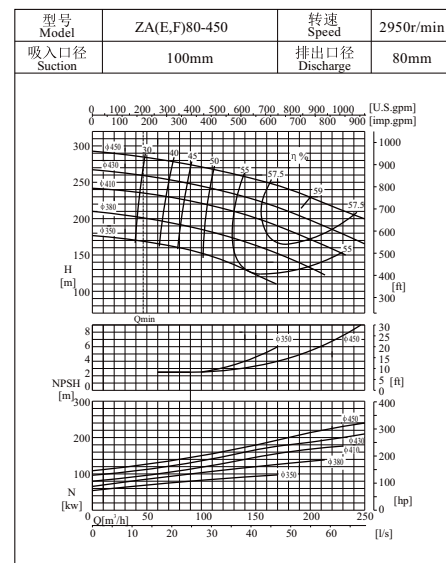


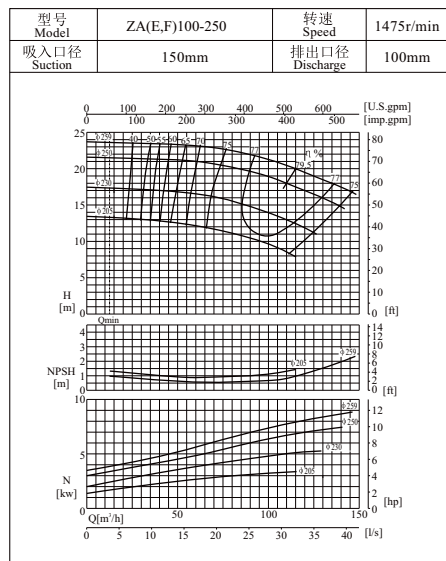
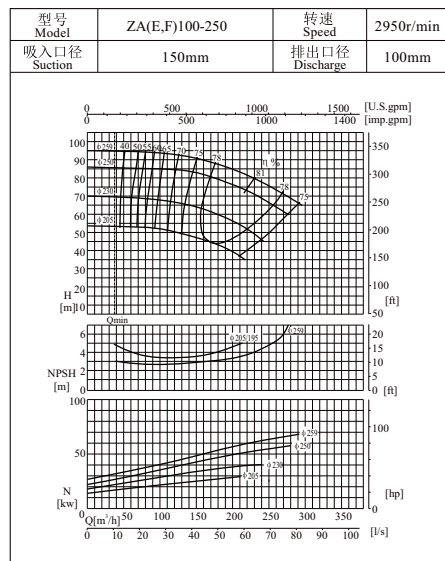
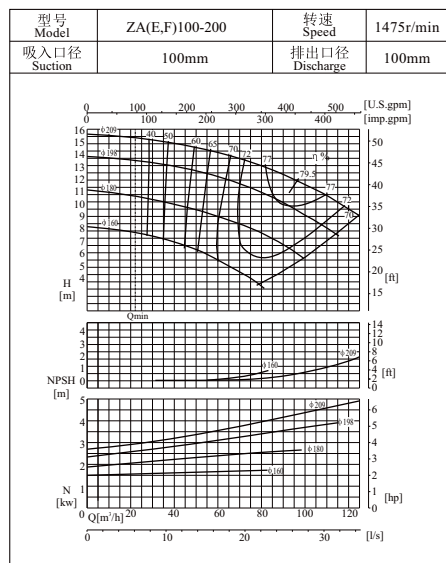
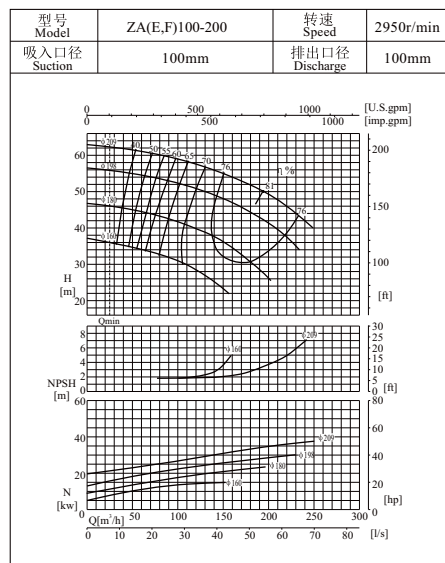
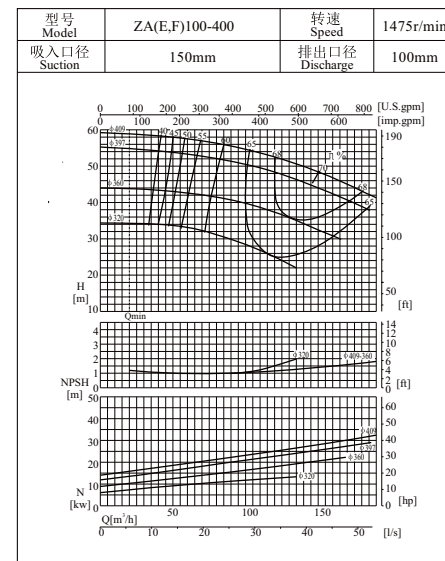
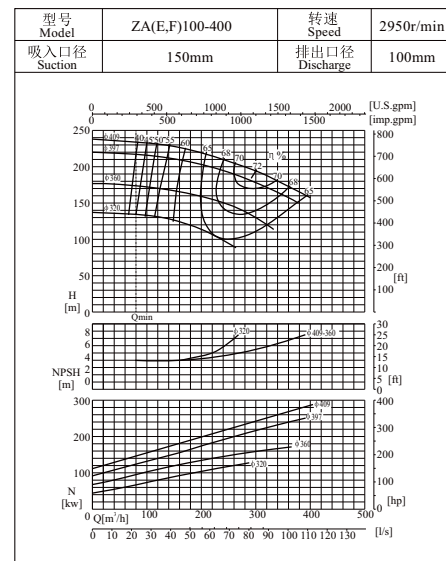
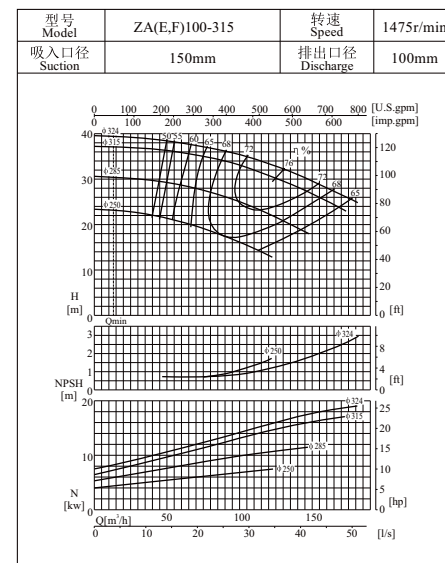
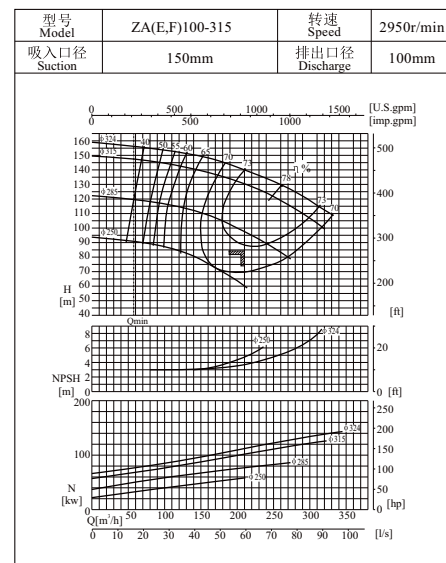
性能曲线图 Performance curve

性能曲线图 Performance curve


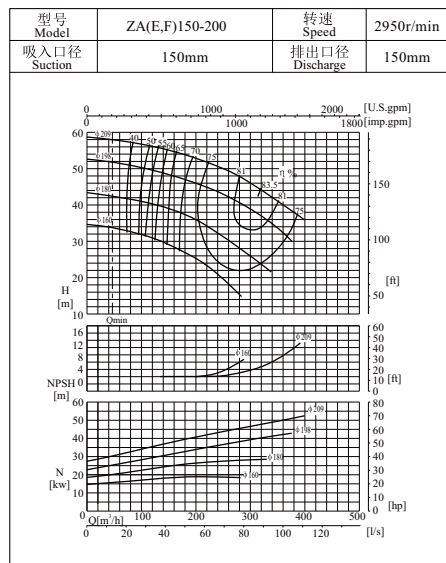
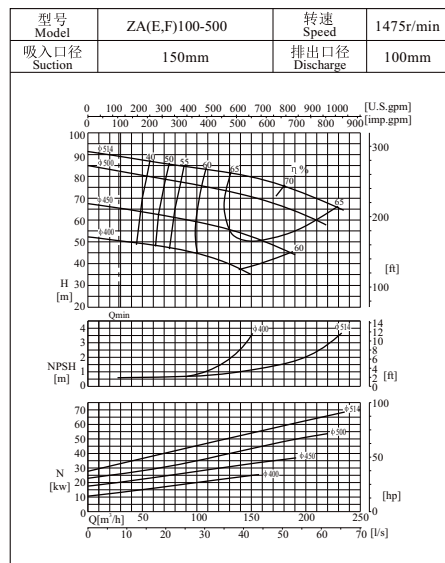
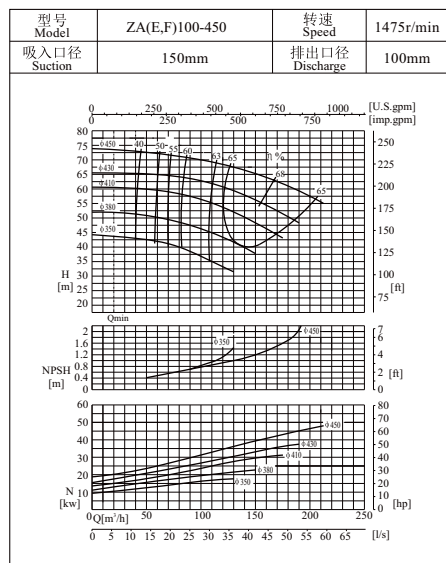
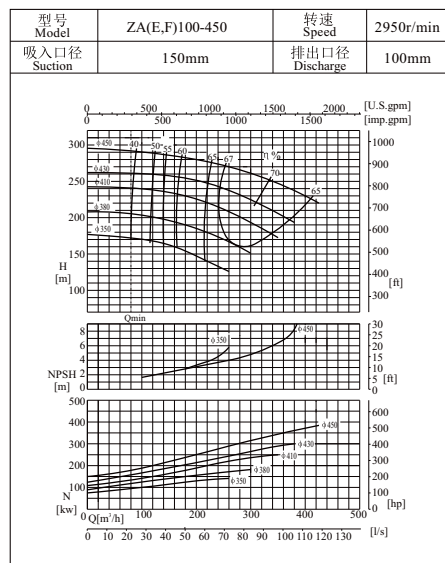
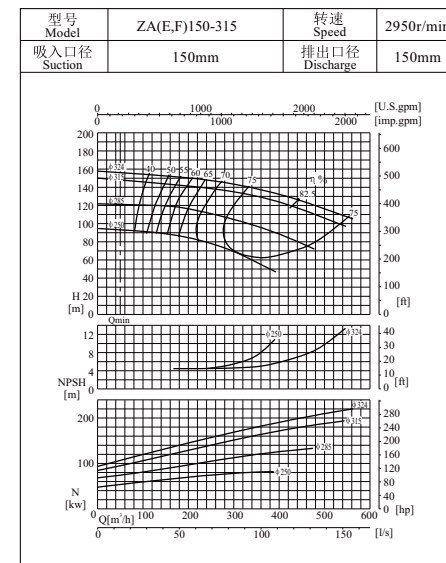
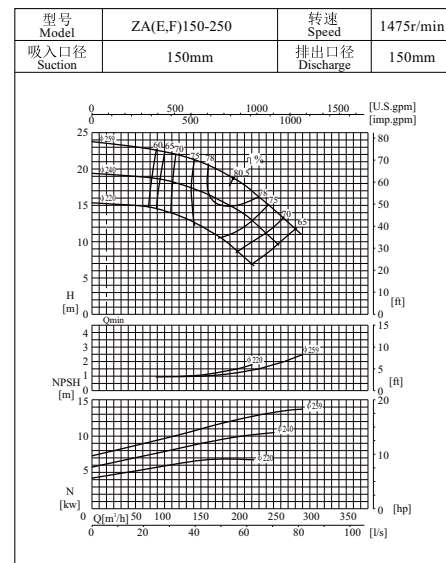
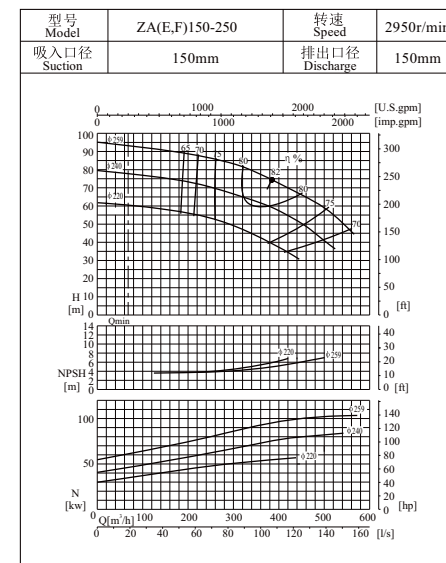
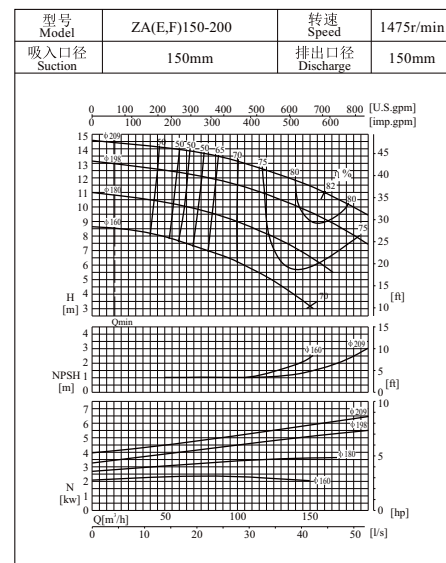
性能曲线图 Performance curve

性能曲线图 Performance curve


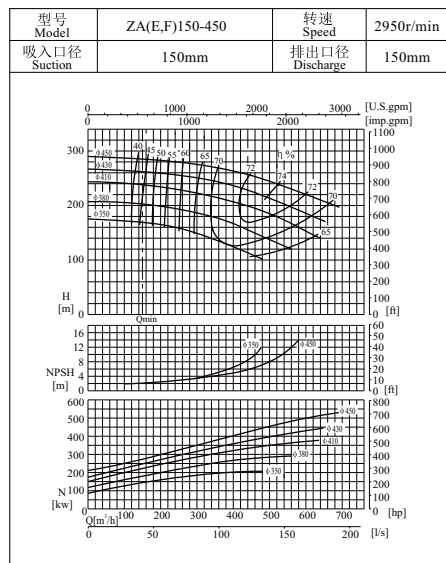
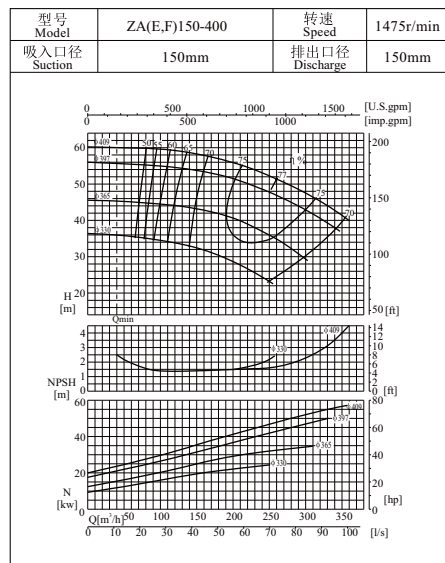
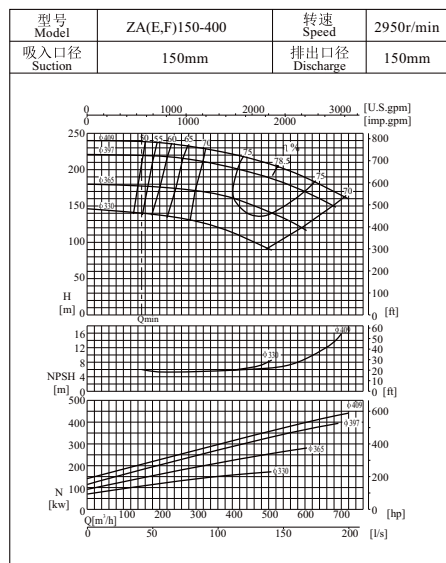
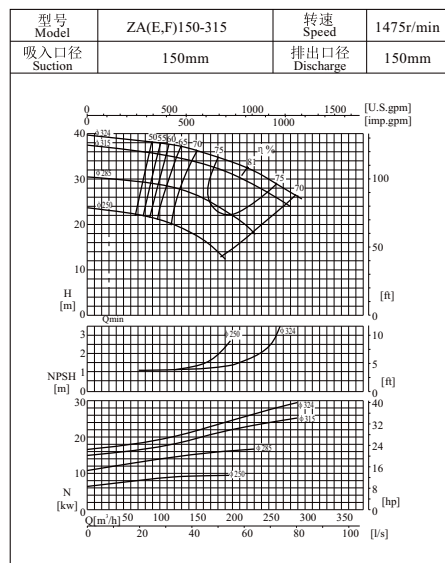
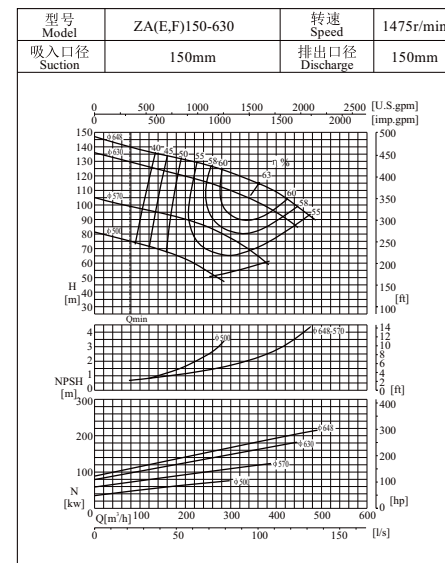
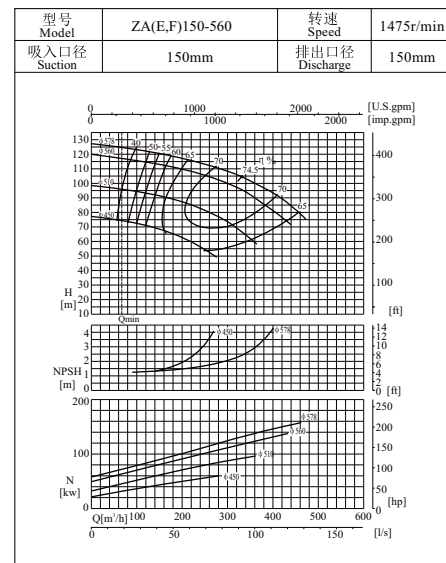
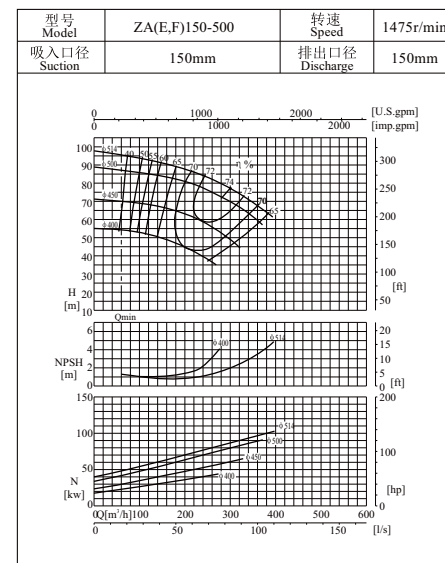
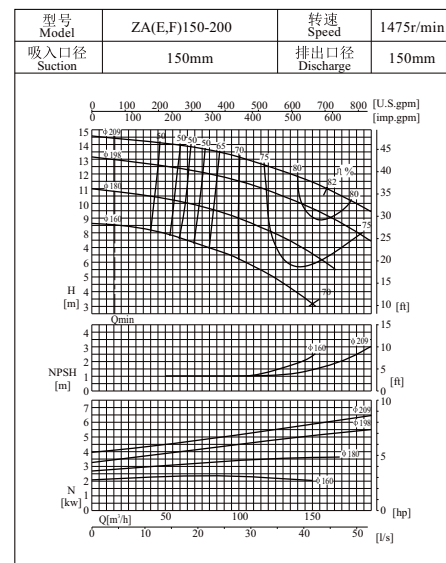
性能曲线图 Performance curve

性能曲线图 Performance curve


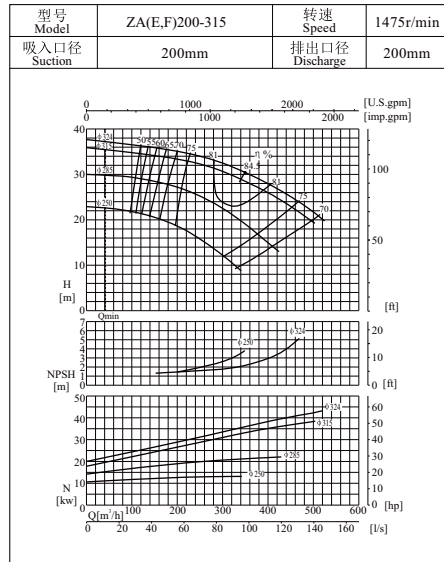
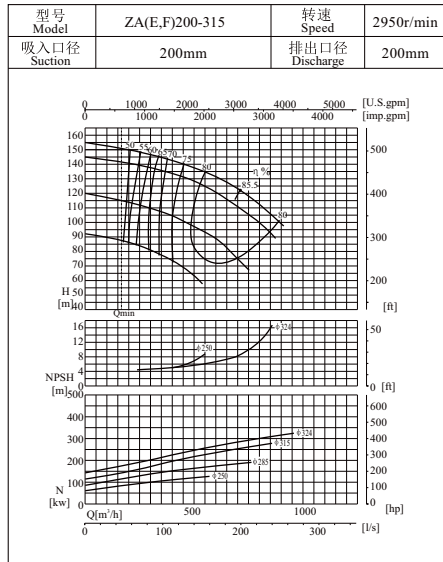
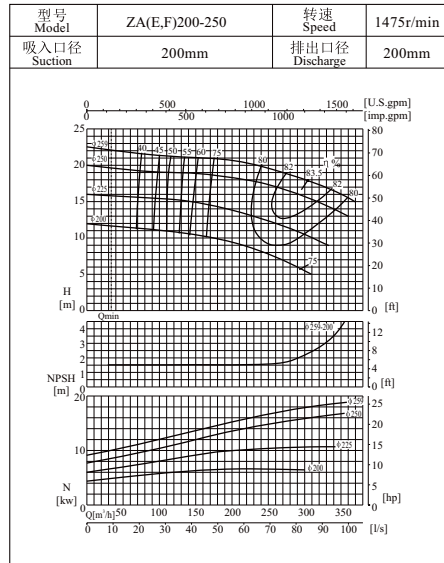
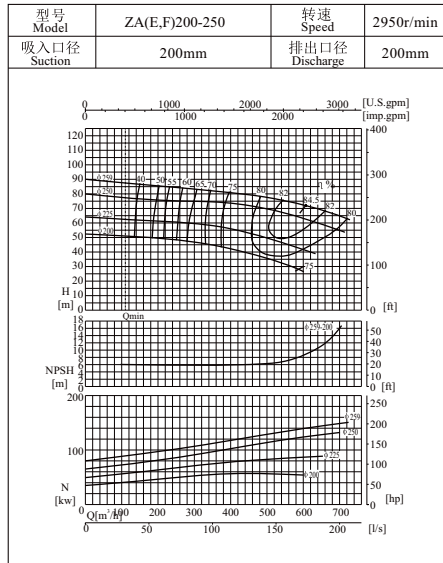
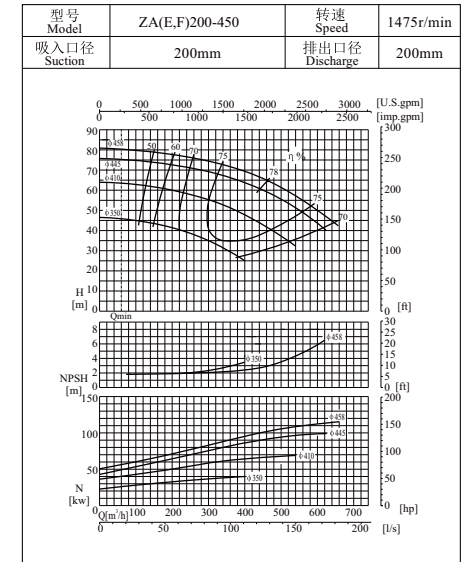
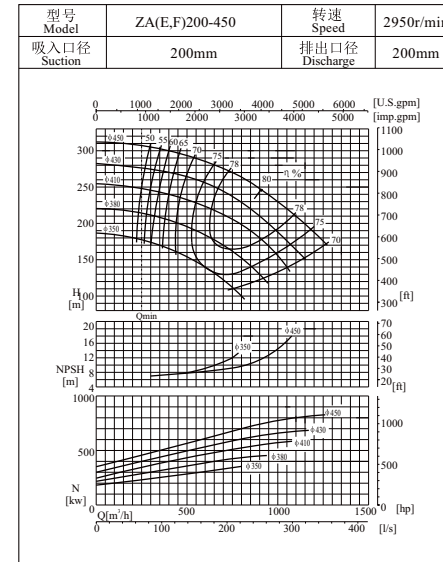
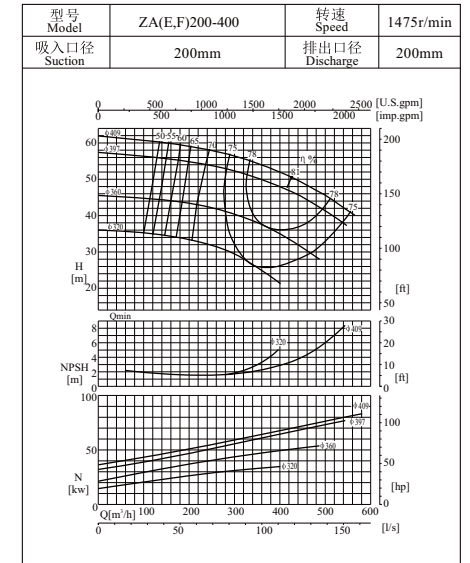
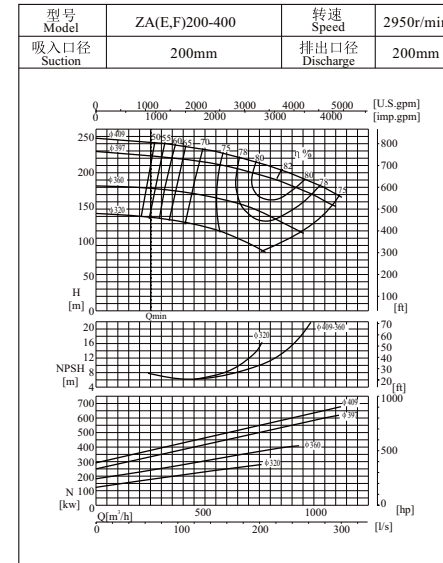
性能曲线图 Performance curve

性能曲线图 Performance curve


性能曲线图 Performance curve

性能曲线图 Performance curve


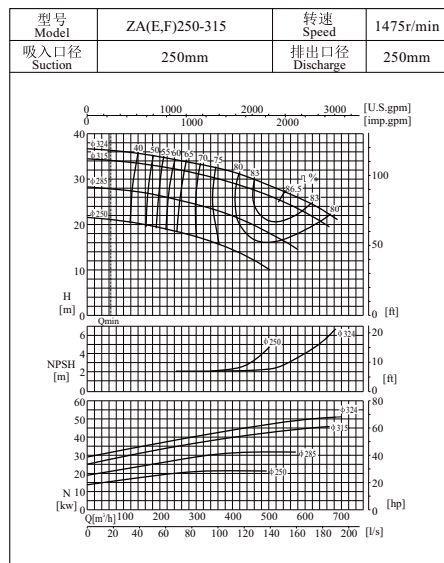
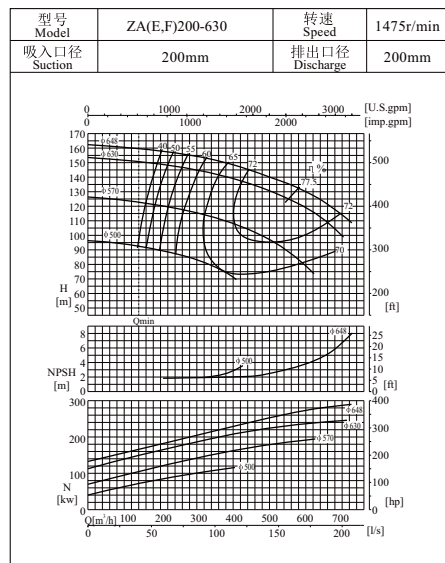
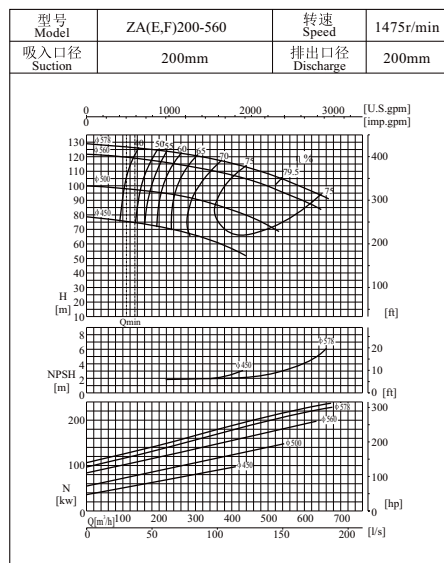
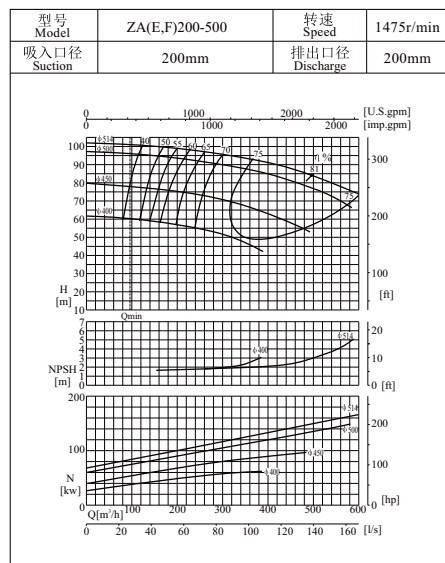
性能曲线图 Performance curve

性能曲线图 Performance curve


性能曲线图 Performance curve

性能曲线图 Performance curve


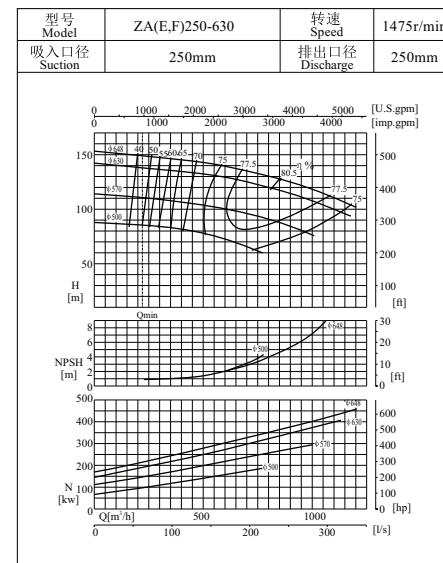
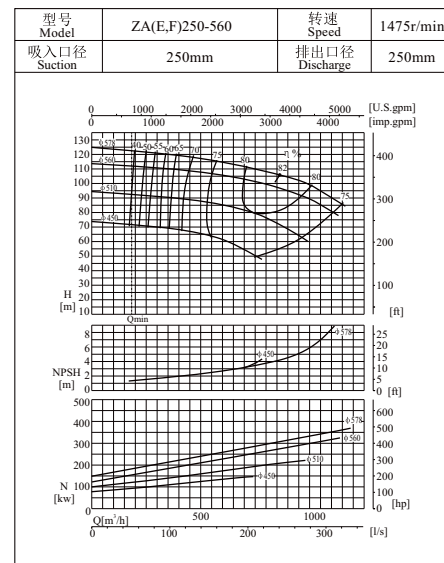
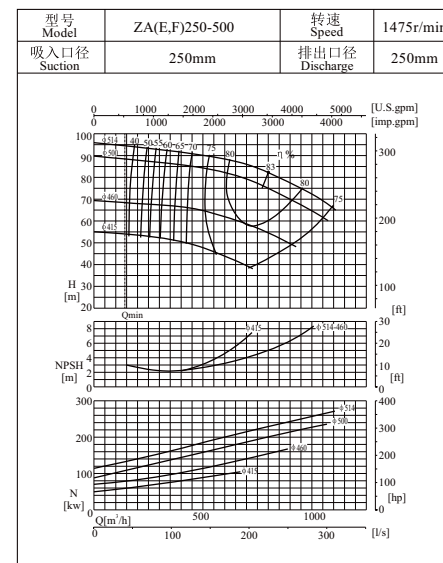
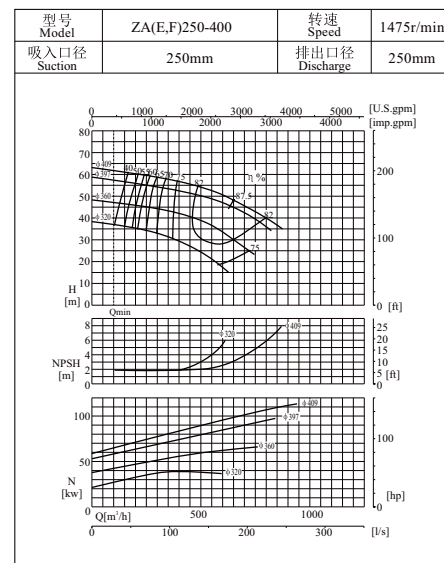
性能曲线图 Performance curve

性能曲线图 Performance curve


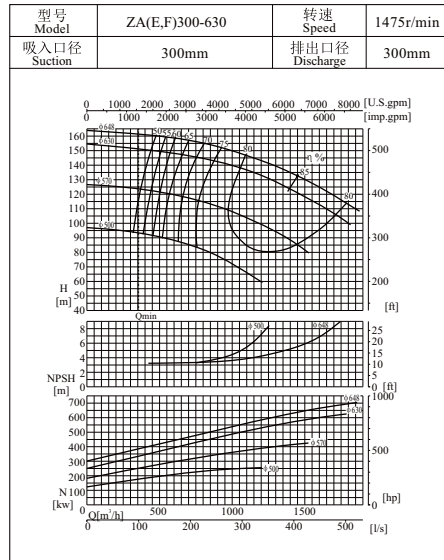
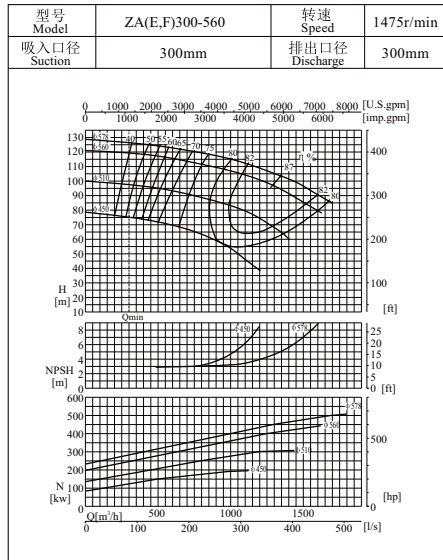
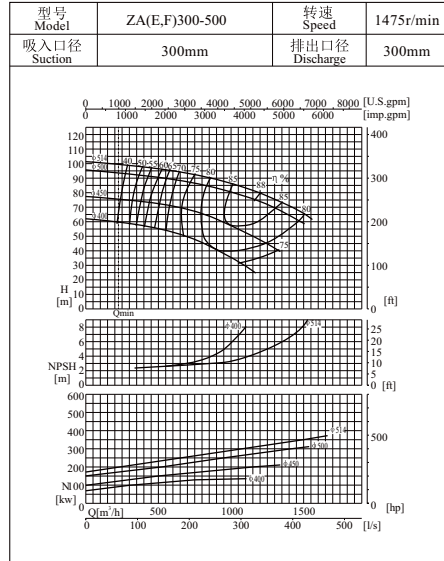
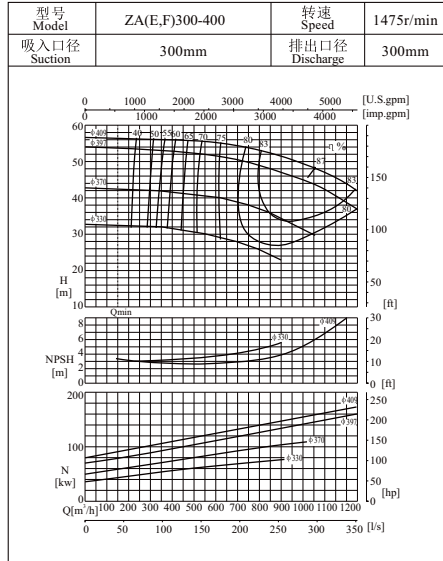
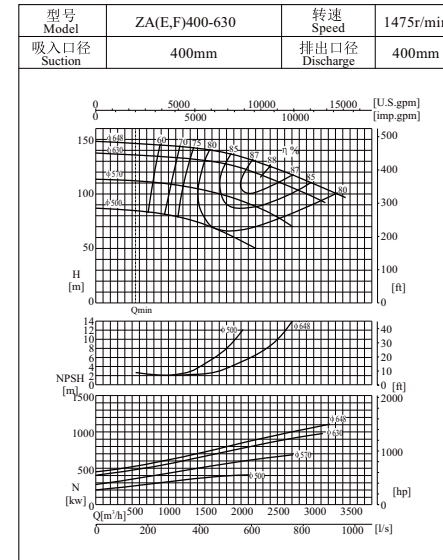
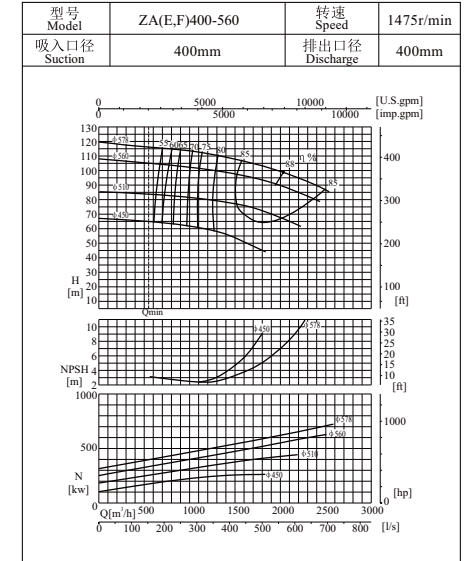
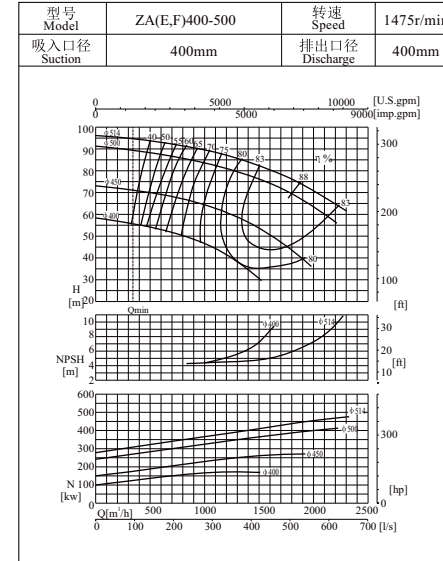
性能曲线图 Performance curve

性能曲线图 Performance curve


性能曲线图 Performance curve



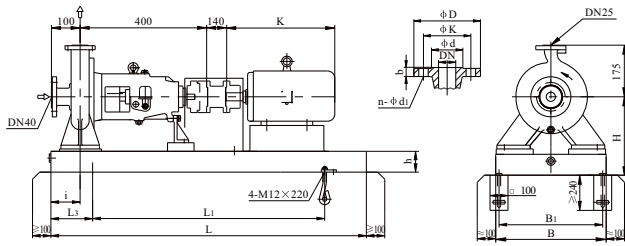
性能曲线图 Performance curve



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

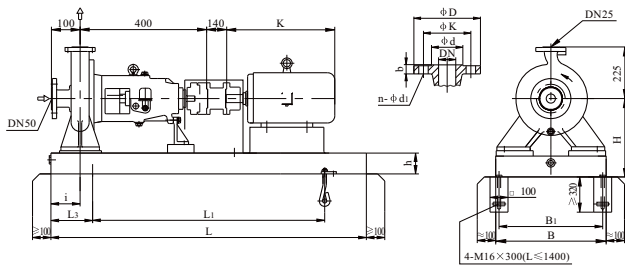
ZA25-0200 型泵 Type pump



法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	40	150	18	110	84	8-φ18	
出口法兰 Outlet flange	25	115	16	85	65	4-φ14	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	40	127	17.5	98.5	73.1	4-φ16	
出口法兰 Outlet flange	25	107.9	14.3	79.2	50.8	4-φ16	

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
90L	1000	660		170	440	400	300	145	63		43	31	52	20	
160M	1000	660		170								37	53	20	
132S	1000	660		170								45	53	20	
132M	1000	660		170								53	53	20	
112M	1120	740		190								84	60	20	
100L	1120	740		190								101	61	20	
90S	1250	840		205								150	63	20	
90L	1250	840		205								170	64	20	

ZA25-1250 型泵 Type pump

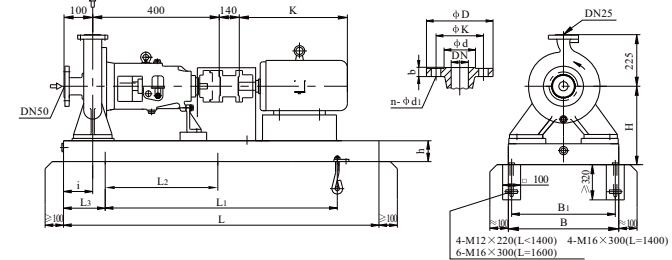


法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	50	165	20	125	99	4-φ18	
出口法兰 Outlet flange	25	115	16	85	65	4-φ14	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	50	152.4	19	120.6	91.9	4-φ19	
出口法兰 Outlet flange	25	107.9	14.3	79.2	50.8	4-φ16	

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)									
	L	L ₁	L ₂	L ₃	B	B ₁	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight					
90S	1000	660		170	440	400	365	90	63		87	31	53	20						
90L	1000	660		170								37	54	20						
100L	1120	740		190								45	58	20						
112M	1120	740		190								53	59	20						
132S	1120	740		190			300					84	60	20						
132M	1120	740		190								101	63	20						
160M	1250	840		205								150	72	20						
160L	1250	840		205								170	73	20						
180M	1400	940		230			440		400			300	90	80			225	83	20	
180L	1400	940		230													270	85	20	

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

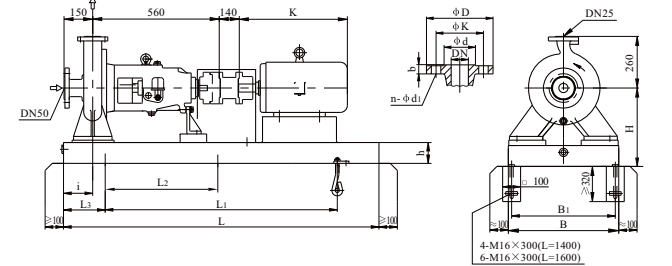
ZA25-2250 型泵 Type pump



法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	50	165	20	125	99	4-φ18	
出口法兰 Outlet flange	25	115	16	85	65	4-φ14	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	50	152.4	19	120.6	91.9	4-φ19	
出口法兰 Outlet flange	25	107.9	14.3	79.2	50.8	4-φ16	

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)							
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight			
100L	1120	740		190	440	400	300	63			103	45	58	20				
112M												53	60	20				
132S												84	65	20				
132M												101	67	20				
160M	1400	940		230			365	90				150	85	20				
160L												170	87	20				
180M												225	85	20				
180L												270	86	20				
200L	1600	1060	530	270	530	490							300	99	20			

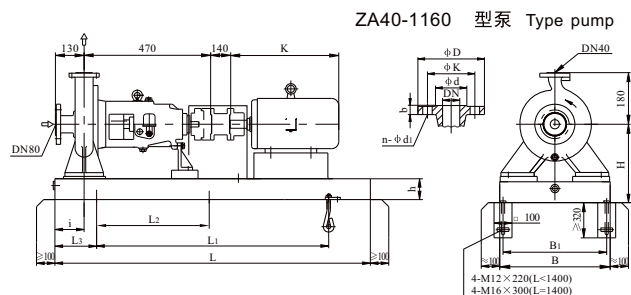
ZA25-2315 型泵 Type pump



法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	50	165	20	125	99	4-φ18	
出口法兰 Outlet flange	25	115	16	85	65	4-φ14	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	50	152.4	19	120.6	91.9	4-φ19	
出口法兰 Outlet flange	25	107.9	14.3	79.2	50.8	4-φ16	

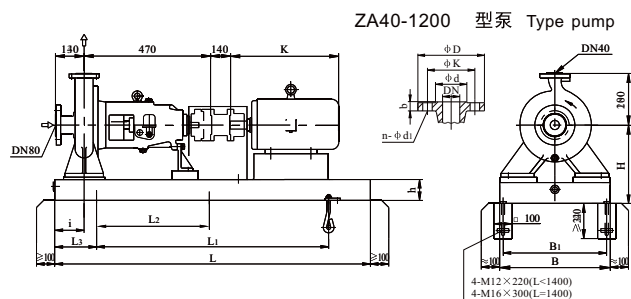
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
100L	1400	940		230	530	490	365	90	80		131	45	88	20	
112M												53	86	20	
132S												84	92	20	
132M												101	93	20	
160M												150	92	20	
160L												170	93	20	
180M												225	91	20	
180L												270	93	20	
200L	1600	1060	530	270								300	98	30	
225S												390	96	30	
225M												440	96	30	
250M												510	120	30	

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



法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN2.5MPa						
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd
进口法兰 Inlet flange	80	200	24	160	132	8-Φ18
出口法兰 Outlet flange	40	150	18	110	84	4-Φ14
执行标准 Adopted standard ANSI B16.5 CLASS 150LB RF						
进口法兰 Inlet flange	80	190.5	23.8	152.4	127	4-Φ19
出口法兰 Outlet flange	40	127	17.5	98.5	73.1	4-Φ16

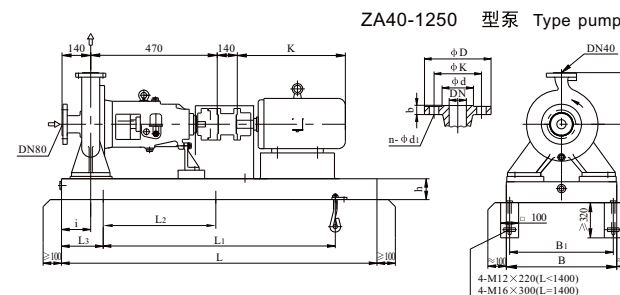
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)													
	L	L ₁	L ₂	L ₃	B	B ₁	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight									
90S	1000	660	170	440	400	300	75	63			68	31	54	20										
90L												37	55	20										
100L												45	55	20										
112M												53	55	20										
132S	1120	740	190															84	62	20				
132M																		101	63	20				
160M																		1250	840	205	150	65	20	
160L																					170	66	20	
180M	1400	940	230								225							83	20					
180L											270							84	20					



法兰尺寸 Flange dimension						
执行标准 GB9113.1-2000 PN2.5MPa						
名称 Name	DN	Φ D	b	Φ K	Φ d	n-Φ d
进口法兰 Inlet flange	80	200	24	160	132	8-Φ 18
出口法兰 Outlet flange	40	150	18	110	84	4-Φ 14
执行标准 Adopted standard						
ANSI B16.5 CLASS 150LB RF						
名称 Name	DN	Φ D	b	Φ K	Φ d	n-Φ d
进口法兰 Inlet flange	80	190.5	23.8	152.4	127	4-Φ 19
出口法兰 Outlet flange	40	127	17.5	98.5	73.1	4-Φ 16

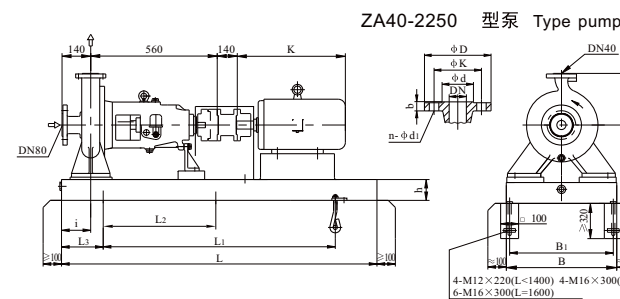
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
90S	1000	660	170	440	400	300	75	63			76	31	55	20	
90L												37	56	20	
100L												45	57	20	
112M												53	57	20	
132S	1120	740	190	440	400	300	75	63		84		57	20		
132M										101		59	20		
160M	1250	840	205	440	400	300	75	63		150		59	20		
160L										170		65	20		
180M										1400		940	230	530	490
180L	270	83	20												
200L							300	87	20						

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



法兰尺寸		Flange dimension				
执行标准		Adopted standard				
GB9113.1-2000		PN2.5MPa				
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd
进口法兰 Inlet flange	80	200	24	160	132	8-Φ18
出口法兰 Outlet flange	40	150	18	110	84	4-Φ14
法兰尺寸		Adopted standard				
ANSI B16.5		CLASS 150Lb RF				
进口法兰 Inlet flange	80	190.5	23.8	152.4	127	4-Φ19
出口法兰 Outlet flange	40	127	17.5	98.5	73.1	4-Φ16

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)					
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight	
90S	1000	660		170	440	400	300	90	63		87	31	53	20		
90L												37	54	20		
100L												45	58	20		
112M	1120	740	190							53		59	20			
132S										84		60	20			
132M										101		63	20			
160M				1250					840	205			150	72	20	
160L		170	73									20				
180M	1400	940	230										225	83	20	
180L													270	85	20	

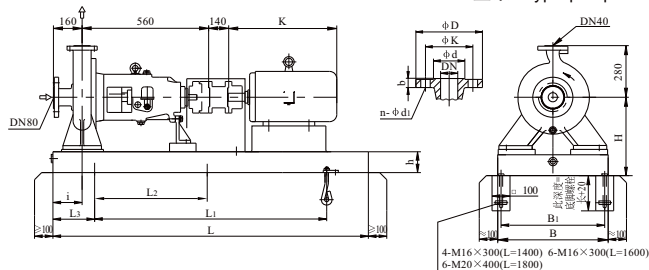


法兰尺寸		Flange dimension				
执行标准		Adopted standard				
GB9113.1-2000		PN2.5MPa				
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd
进口法兰 Inlet flange	80	200	24	160	132	8-Φ18
出口法兰 Outlet flange	40	150	18	110	84	4-Φ14
法兰尺寸		Adopted standard				
ANSI B16.5		CLASS 150Lb RF				
进口法兰 Inlet flange	80	190.5	23.8	152.4	127	4-Φ19
出口法兰 Outlet flange	40	127	17.5	98.5	73.1	4-Φ16

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
100L	1120	740		190	440	400	300	90	63		103	45	58	20	
112M												53	60	20	
132S	1250	840	205							84		65	20		
132M										101		67	20		
160M	1400	940	230				150		85	20					
160L							170		87	20					
180M							225		85	20					
180L							270		86	20					
200L	1600	1060	530	270	530	490					300	99	30		

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

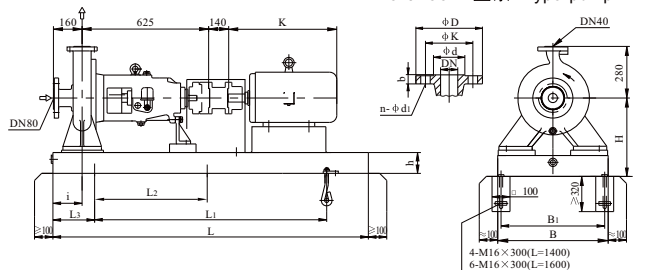
ZA40-2315 型泵 Type pump



法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN2.5MPa						
名称 Name	DN	φD	b	φK	φd	n-φd1
进口法兰 Inlet flange	80	200	24	160	132	8-φ18
出口法兰 Outlet flange	40	150	18	110	84	4-φ14
执行标准 Adopted standard ANSI B16.5 CLASS 150LB RF						
进口法兰 Inlet flange	80	190.5	23.8	152.4	127	4-φ19
出口法兰 Outlet flange	40	127	17.5	98.5	73.1	4-φ16

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
90S	1400	940	230	530	490	365	90	80			135	31	87	20	
90L												37	88	20	
100L												45	90	20	
112M												53	90	20	
132S												84	95	20	
132M												101	95	20	
160M												150	95	20	
160L												170	95	20	
180M	1600	1060	530	270	600	560	465					225	95	20	
200L												270	95	20	
225M												300	100	30	
250M												440	100	30	
280S												510	120	30	
												650	163	30	

ZA40-3400 型泵 Type pump

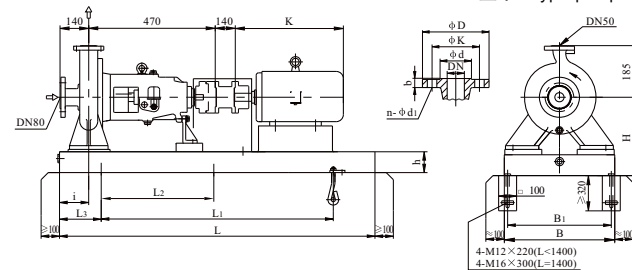


法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN2.5MPa						
名称 Name	DN	φD	b	φK	φd	n-φdi
进口法兰 Inlet flange	80	200	24	160	132	8-φ18
出口法兰 Outlet flange	40	150	18	110	84	4-φ14
执行标准 Adopted standard ANSI B16.5 CLASS 150LB RF						
进口法兰 Inlet flange	80	190.5	23.8	152.4	127	4-φ19
出口法兰 Outlet flange	40	127	17.5	98.5	73.1	4-φ16

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
132S	1400	940	230	530	490	365	90	80			180	84	80	20	
132M												101	80	20	
160M												150	90	20	
160L												170	120	20	
180M												225	120	20	
180L												270	120	20	
200L												300	120	20	
225M												440	120	20	
250M	1600	1060	530	270	600	550	475					510	150	20	

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

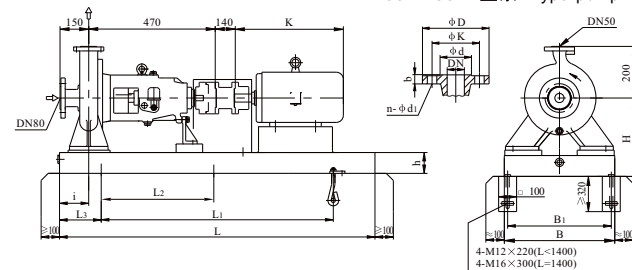
ZA50-1160 型泵 Type pump



法兰尺寸		Flange dimension				
执行标准		Adopted standard				
GB9113.1-2000		PN2.5MPa				
名称 Name	DN	φD	b	φK	φd	n-φ
进口法兰 Inlet flange	80	200	24	160	132	8-φ18
出口法兰 Outlet flange	50	165	20	125	99	4-φ18
执行标准		Adopted standard				
ANSI B16.5		CLASS 150Lb RF				
进口法兰 Inlet flange	80	190.5	23.8	152.4	127	4-φ19
出口法兰 Outlet flange	50	152.4	19	120.6	91.9	4-φ19

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
90S	1000	660	170				300	75	63		71	31	55	20	
90L												37	56	20	
100L												45	57	20	
112M												53	57	20	
132S												84	57	20	
132M												101	59	20	
160M												150	59	20	
160L												170	65	20	
180M	1400	940	230				365		80			225	82	20	
180L												270	83	20	

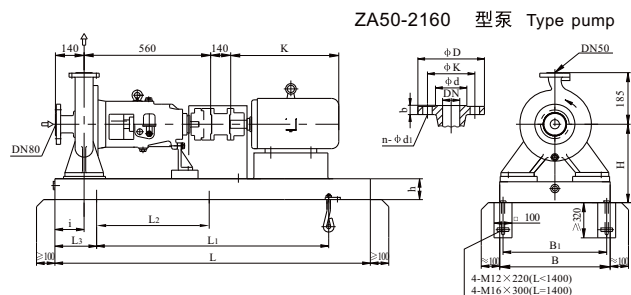
ZA50-1200 型泵 Type pump



法兰尺寸		Flange dimension				
执行标准		Adopted standard				
GB9113.1-2000		PN2 5MPa				
名称 Name	DN	φD	b	φK	φd	n-φi
进口法兰 Inlet flange	80	200	24	160	132	8-φ18
出口法兰 Outlet flange	50	165	20	125	99	4-φ18
执行标准		Adopted standard				
ANSI B16.5		CLASS 150Lb RF				
名称 Name	DN	φD	b	φK	φd	n-φi
进口法兰 Inlet flange	80	190.5	23.8	152.4	127	4-φ19
出口法兰 Outlet flange	50	152.4	19	120.6	91.9	4-φ19

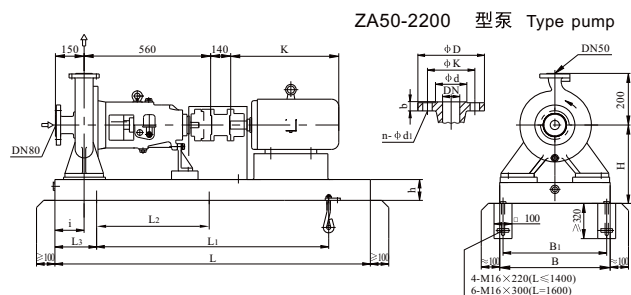
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
90S	1000	660	170				300	75	63		77	31	55	20	
90L												37	56	20	
100L												45	57	20	
112M												53	57	20	
132S												84	57	20	
132M												101	59	20	
160M												150	59	20	
160L												170	65	20	
180M	1400	940	230				365		80			225	82	20	
180L												270	83	20	

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



法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN2.5MPa						
名称 Name	DN	Φ D	b	Φ K	Φ d	Φ n-Φ l
进口法兰 Inlet flange	80	200	24	160	132	8-Φ 18
出口法兰 Outlet flange	50	165	20	125	99	4-Φ 18
执行标准 Adopted standard ANSI B16.5 CLASS 150LB RF						
进口法兰 Inlet flange	80	190.5	23.8	152.4	127	4-Φ 19
出口法兰 Outlet flange	50	152.4	19	120.6	91.9	4-Φ 19

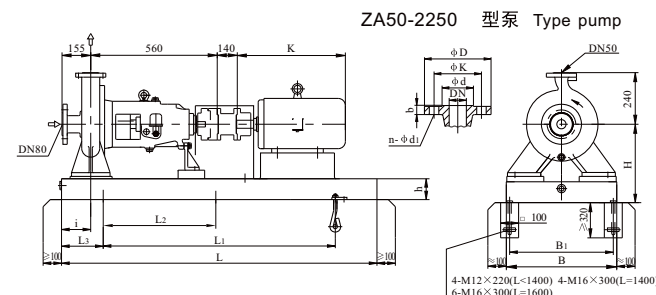
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L ₁	L ₂	L ₃	B	B ₁	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
90S	1120	740		190	440	400	300	75	63		84	31	60	20	
90L										37		60	20		
100L										45		60	20		
112M										53		60	20		
132S	1250	840	205	84						65		20			
132M				101						65		20			
160M				150			75	20							
160L				170			77	20							
180M	1400	940	230			315	80		225	82	20				
180L						365			270	85	20				



法兰尺寸 Flange dimension						
执行标准 GB9113.1-2000 PN2.5MPa						
名称 Name	DN	Φ D	b	Φ K	Φ d	n-Φ d
进口法兰 Inlet flange	80	200	24	160	132	8-Φ 18
出口法兰 Outlet flange	50	165	20	125	99	4-Φ 18
执行标准 GB9113.1-2000 PN2.5MPa						
ANSI B16.5 CLASS 150LB RF						
进口法兰 Inlet flange	80	190.5	23.8	152.4	127	4-Φ 19
出口法兰 Outlet flange	50	152.4	19	120.6	91.9	4-Φ 19

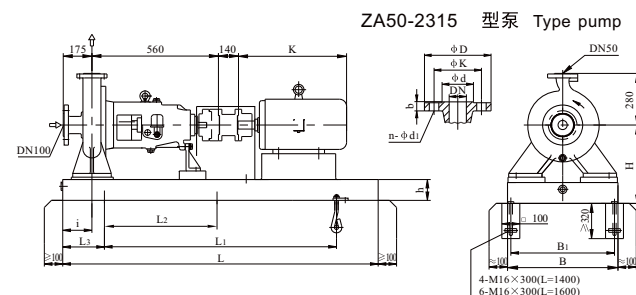
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)								
	L	L ₁	L ₂	L ₃	B	B ₁	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight				
100L	1120	740		190	440	400	300	75	63		95	45	80	20					
112M												53	80	20					
132S												84	80	20					
132M	101	80	20																
160M	1400	940	230	440			400		315			75	80		95	150	80	20	
160L																170	80	20	
180M																225	80	20	
180L																270	80	20	
200L																300	80	20	
225S	1600	1060	530						270				530			490			
225M					440	100		20											

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



法兰尺寸		Flange dimension				
执行标准		Adopted standard				
GB9113.1-2000 PN2.5MPa						
名称 Name	DN	ΦD	b	ΦK	φd	n-φr
进口法兰 Inlet flange	80	200	24	160	132	8-φ16
出口法兰 Outlet flange	50	165	20	125	99	4-φ16
执行标准		Adopted standard				
ANSI B16.5 CLASS 150Lb RF						
进口法兰 Inlet flange	80	190.5	23.8	152.4	127	4-φ16
出口法兰 Outlet flange	50	152.4	19	120.6	91.9	4-φ16

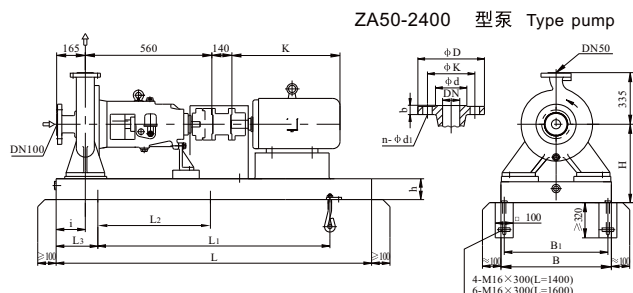
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
90S	1120	740	190		440	400	300		63		108	31	60	20	
90L												37	60	20	
100L												45	80	20	
112M												53	80	20	
132S	1250	840	205							84		80	20		
132M										101		80	20		
160M	1400	940	230							150		80	20		
160L										170		80	20		
180M										225		80	20		
180L										270		80	20		
200L	1600	1060	530	270	530	490					300	80	20		
225S											390	100	20		
225M											440	100	20		
250M											510	150	20		
250S											600	560	465	100	



法兰尺寸		Flange dimension				
执行标准		Adopted standard				
GB9113.1-2000		PN2 50MPa				
名称 Name	DN	Φ D	b	Φ K	Φ d	n-Φ f
进口法兰 Inlet flange	100	235	24	190	156	8-Φ 12
出口法兰 Outlet flange	50	165	20	125	99	4-Φ 12
执行标准		Adopted standard				
ANSI B16.5		CLASS 150LB RF				
进口法兰 Inlet flange	100	228.6	23.8	190.5	157.2	8-Φ 12
出口法兰 Outlet flange	50	152.4	19	120.6	91.9	4-Φ 12

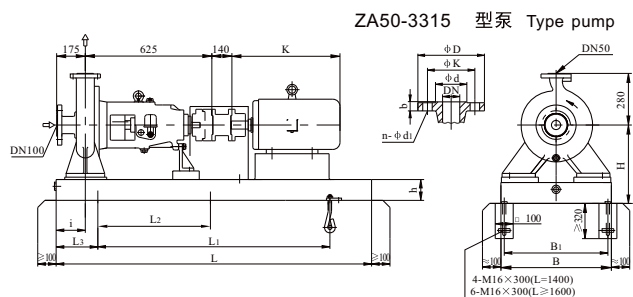
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
100L	1400	940		230	530	490	365	90	80		142	45	95	20	
112M												53	95	20	
132S												84	95	20	
132M												101	95	20	
160M												150	95	20	
160L												170	95	20	
180M												225	95	20	
180L												270	95	20	
200L	1600	1060	530	270								300	100	20	

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



法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	100	235	24	190	156	8-φ22	
出口法兰 Outlet flange	50	165	20	125	99	4-φ18	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
进口法兰 Inlet flange	100	228.6	23.8	190.5	157.2	8-φ19	
出口法兰 Outlet flange	50	152.4	19	120.6	91.9	4-φ19	

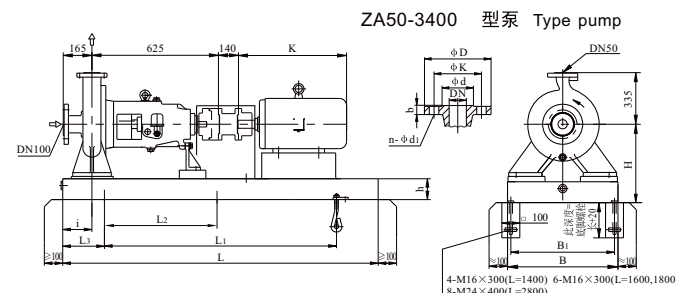
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
112M	1400	940	230	530	490	430	105	80			191	53	100	20	
132S												84	100	20	
132M												101	100	20	
160M												150	100	20	
160L												170	100	20	
180M	1600	1060	530	270								225	100	20	
180L												270	100	20	
200L												300	100	20	
200L															



法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	100	235	24	190	156	8-φ22	
出口法兰 Outlet flange	50	165	20	125	99	4-φ18	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
进口法兰 Inlet flange	100	228.6	23.8	190.5	157.2	8-φ19	
出口法兰 Outlet flange	50	152.4	19	120.6	91.9	4-φ19	

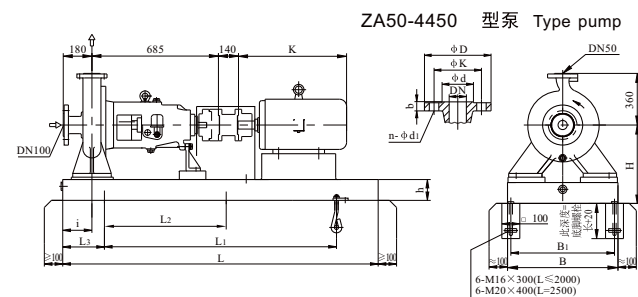
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
132S	1400	940	230	530	490	365	90		80		167	84	90	20	
132M												101	90	20	
160M												150	90	20	
160L												170	90	20	
180M												225	112	20	
180L	1600	1060	530	270			90					270	115	20	
200L												300	110	20	
225S												390	111	20	
225M												440	112	20	
250M												510	140	20	
280S	1800	1200	600	300	720	670	450					650	165	20	
280M												800	152	20	
280M															

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



法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	100	235	24	190	156	8-φ22	
出口法兰 Outlet flange	50	165	20	125	99	4-φ18	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
进口法兰 Inlet flange	100	228.6	23.8	190.5	157.2	8-φ19	
出口法兰 Outlet flange	50	152.4	19	120.6	91.9	4-φ19	

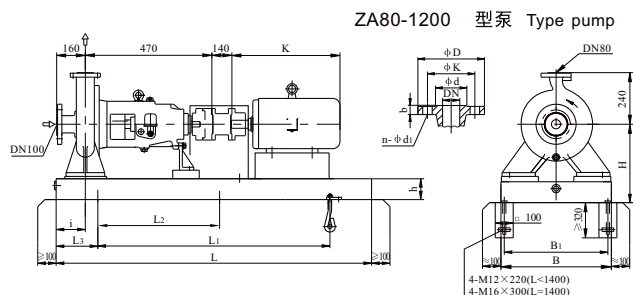
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
160M	1400	940	230	530	490	430	80				216	150	100	20	
160L												170	100	20	
180M												225	120	20	
180L												270	120	20	
200L												300	120	20	
225S	1600	1060	530	270			90					390	120	20	
225M												440	120	20	
250M												510	180	20	
280S		1800	1200	600	720	670	450					650	160	20	
280M												800	166	20	
315S												950	250	20	
315M												1000	250	20	
315L	2800	2100	700	350	970	920	630					1300	250	20	
355S												1690	300	20	
355M												1840	300	20	
355L												2100	300	20	
355L															



法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	φD	b	φK	φd	n-φd1	
进口法兰 Inlet flange	100	235	24	190	156	8-φ22	
出口法兰 Outlet flange	50	165	20	125	99	4-φ18	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
进口法兰 Inlet flange	100	228.6	23.8	190.5	157.2	8-φ19	
出口法兰 Outlet flange	50	152.4	19	120.6	91.9	4-φ19	

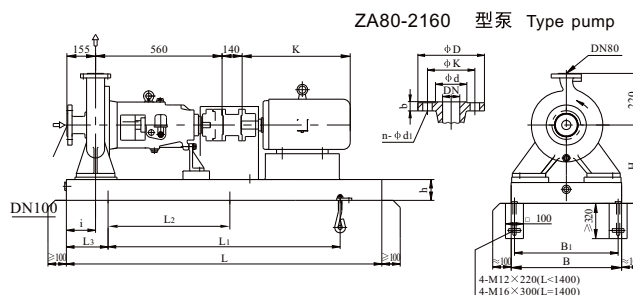
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
160M	1800	1200	600	300	720	670	570	125	100		223	150	210	20	
160L												170	210	20	
180M												225	210	20	
180L												270	210	20	
200L												300	210	20	
225S	2000	1400	700									390	210	20	
225M												440	240	20	
250M												510	240	20	
280S												650	240	20	
280M												800	240	20	
315S	2500	1800	900	350	780	730						950	360	20	
315M												1000	360	20	
315L												1300	360	20	

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



法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN2.5MPa						
名称 Name	DN	φD	b	φK	φd	n-φr
进口法兰 Inlet flange	100	235	24	190	156	8-φ22
出口法兰 Outlet flange	80	200	24	160	132	8-φ18
执行标准 Adopted standard ANSI B16.5 CLASS 150LB RF						
进口法兰 Inlet flange	100	228.6	23.8	190.5	157.2	8-φ19
出口法兰 Outlet flange	80	190.5	23.8	152.4	127	4-φ19

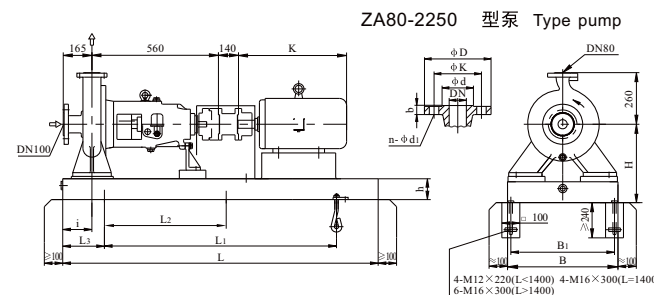
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L ₁	L ₂	L ₃	B	B ₁	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
90S/L	1000	660		170	440	400	300	90	63		89	31	60	20	
100L	1120	740	190							37		60	20		
112M										45		80	20		
132S										53		80	20		
132M										84		80	20		
160M/L	1250	840	205						101	80		20			
180M/L	1400	940	230						150	80		20			
200L									170	90		20			



法兰尺寸		Flange dimension				
执行标准 GB9113.1-2000 PN2.5MPa						
名称 Name	DN	Φ D	b	Φ K	Φ d	n-Φ d
进口法兰 Inlet flange	100	235	24	190	156	8-Φ 22
出口法兰 Outlet flange	80	200	24	160	132	8-Φ 18
执行标准 GB9113.1-2000 PN2.5MPa						
ANSI B16.5		Adopted standard CLASS 150LB RF				
进口法兰 Inlet flange	100	228.6	23.8	190.5	157.2	8-Φ 19
出口法兰 Outlet flange	80	190.5	23.8	152.4	127	4-Φ 19

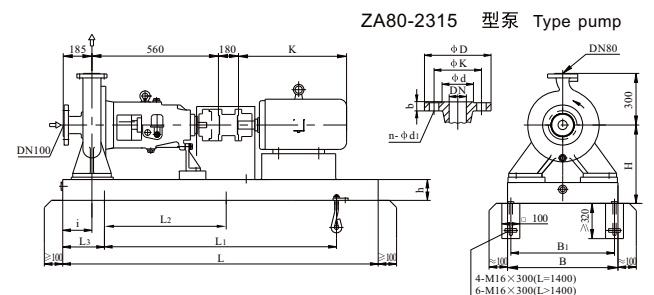
机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)					
	L	L ₁	L ₂	L ₃	B	B ₁	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight	
90S/L	1120	740		190	440	400	300	90	63		96	37	65	20		
100L												45	65	20		
112M												53	65	20		
132S	1250	840	205							101		70	20			
160M/L	1400	940	230					315	80				170	80	20	
180M/L												270	100	20		
200L												300	100	20		

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



法兰尺寸		Flange dimension				
执行标准		Adopted standard				
GB9113.1-2000		PN2.5MPa				
名称 Name	DN	Φ D	b	Φ K	Φ d	n-Φ e
进口法兰 Inlet flange	100	235	24	190	156	8-Φ 24
出口法兰 Outlet flange	80	200	24	160	132	8-Φ 18

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
100L	1250	840	205	440	400	350	105	63			117	45	75	20	
112M												53	75	20	
132S/M												101	75	20	
160M/L	1400	940	230	365	80			170	90	20					
180M/L								270	90	20					
200L								300	105	30					
225M	1600	1060	530	270	530	490	100			440		105	30		
250M										510		150	30		
280S/M										800		175	30		

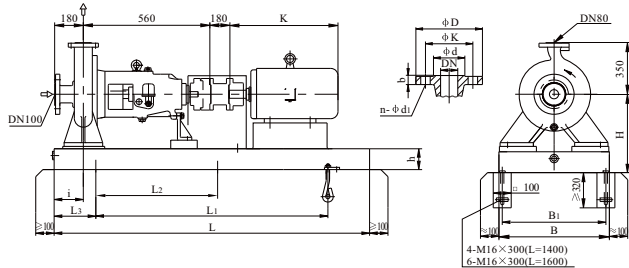


法兰尺寸		Flange dimension				
执行标准 Adopted standard GB9113.1-2000 PN2.5MPa						
名称 Name	DN	Φ D	b	Φ K	Φ d	n-Φ f
进口法兰 Inlet flange	100	235	24	190	156	8-Φ 22
出口法兰 Outlet flange	80	200	24	160	132	8-Φ 18
执行标准 Adopted standard ANSI B16.5 CLASS 150LB RF						
进口法兰 Inlet flange	100	228.6	23.8	190.5	157.2	8-Φ 18
出口法兰 Outlet flange	80	190.5	23.8	152.4	127	4-Φ 18

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
112M	1400	940		230	530	490	365	105	80		155	53	95	20	
132S/M												101	95	20	
160M/L												170	95	20	
180M/L		270	110	30											
200L	1600	1060	530	270								300	110	30	
225S/M												440	110	30	
250M						510	150	30							
280S/M						800	165	30							
315S/M/L					1800	1200	600	300	720	670		530	1000	175	30

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

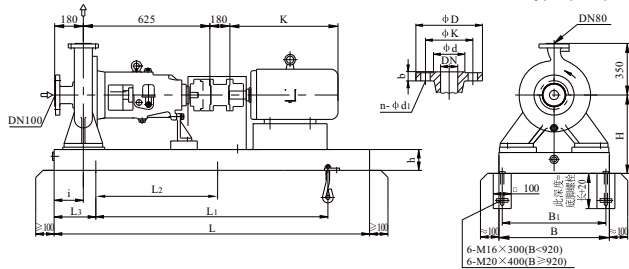
ZA80-2400 型泵 Type pump



法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN2.5MPa						
名称 Name	DN	φD	b	φK	φd	n-φd
进口法兰 Inlet flange	100	235	24	190	156	8-φ22
出口法兰 Outlet flange	80	200	24	160	132	8-φ18
执行标准 Adopted standard ANSI B16.5 CLASS 150LB RF						
进口法兰 Inlet flange	100	228.6	23.8	190.5	157.2	8-φ19
出口法兰 Outlet flange	80	190.5	23.8	152.4	127	4-φ19

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
132S/M	1400	940		230	530	490	430	105	80		214	101	110	20	
160M/L												170	110	20	
180M/L	1600	1060	530	270								270	125	20	
200L						300	125	20							
225S/M						440	125	20							
250M						510	150	20							

ZA80-3400 型泵 Type pump

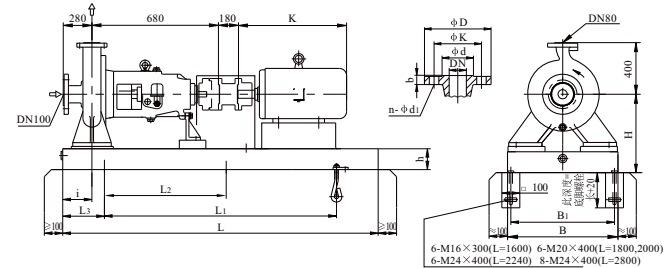


法兰尺寸 Flange dimension						
执行标准 Adopted standard GB9113.1-2000 PN2.5MPa						
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd
进口法兰 Inlet flange	100	235	24	190	156	8-Φ22
出口法兰 Outlet flange	80	200	24	160	132	8-Φ18
执行标准 Adopted standard ANSI B16.5 CLASS 150LB RF						
进口法兰 Inlet flange	100	228.6	23.8	190.5	157.2	8-Φ19
出口法兰 Outlet flange	80	190.5	23.8	152.4	127	4-Φ19

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Foundation	其它 Other	总重 Total weight
180M/L	1600	1060	530	270	530	490	430	105	80		240	270	120	20	
200L												300	120	20	
225S/M												440	120	20	
250M	1800	1200	600	300	720	670	450		100			510	120	20	
280S/M												800	170	20	
315S/M												1000	350	20	
315L	2240	1600	800	320	780	730	600	165				1300	350	20	
355S/M/L															1840
400S	2500	1800	900	350	970	920	700	105	200				2450	450	20

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

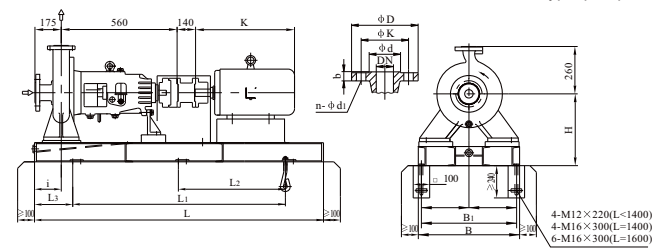
ZA80-4450 型泵 Type pump



法兰尺寸		Flange dimension				
执行标准		Adopted standard				
GB9113.1-2000		PN2.5MPa				
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd1
进口法兰 Inlet flange	100	235	24	190	156	8-Φ22
出口法兰 Outlet flange	80	200	24	160	132	8-Φ18
执行标准		Adopted standard				
ANSI B16.5		CLASS 150LB RF				
进口法兰 Inlet flange	100	228.6	23.8	190.5	157.2	8-Φ19
出口法兰 Outlet flange	80	190.5	23.8	152.4	127	4-Φ19

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)					
	L	L1	L2	L3	B	B1	H	i	h	K	泵 Pump	电机 Motor	底座 Foundation	其它 Other	总重 Total weight	
160M/L	1600	1140	570	230	720	670	570	105	180		257	170	230	20		
180M/L	1800	1200	600	300	720	670		125	100				270	200	20	
200L													300	200	20	
225S/M													440	200	20	
250M	2000	1400	700							510		200	20			
280S/M													800	230	20	
315S/M/L	2240	1600	800	320	780	730	640	240	200			1000	700	20		
355S/M/L	2800	2100	700	350	970	920		125				1840	750	20		
400S/M							1090		1020	700		2600	800	20		

ZA100-2160 型泵 Type pump

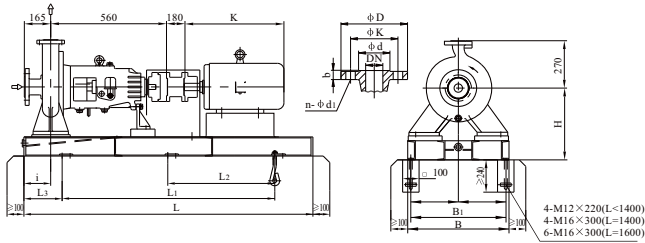


法兰尺寸		Flange dimension				
执行标准		Adopted standard				
GB9113.1-2000		PN2.5MPa				
名称 Name	DN	Φ D	b	Φ K	Φ d	n-Φ d1
进口法兰 Inlet flange	100	235	24	190	156	8-Φ 22
出口法兰 Outlet flange	100	235	24	190	156	8-Φ 22
执行标准		Adopted standard				
ANSI B16.5		CLASS 150LB RF				
进口法兰 Inlet flange	100	228.6	23.9	190.5	157.2	8-Φ 19.1
出口法兰 Outlet flange	100	228.6	23.9	190.5	157.2	8-Φ 19.1

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)					
	L	L1	L2	L3	B	B1	H	h	i	K	泵 Pump	电机 Motor	底座 Foundation	其它 Other	总重 Total weight	
90S/L	1120	740		190	440	400	300	65		90	103		31/37	70	20	
100L													45	70	20	
112M													53	70	20	
132S/M	1250	840		205						84/101		70	20			
160M/L	1400	940		230			365	80		150/170		90	20			
180M/L										225/270		90	20			
200L												300	110	20		
225S/M	1600	1060	530	270	530	490						390/110	110	20		

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

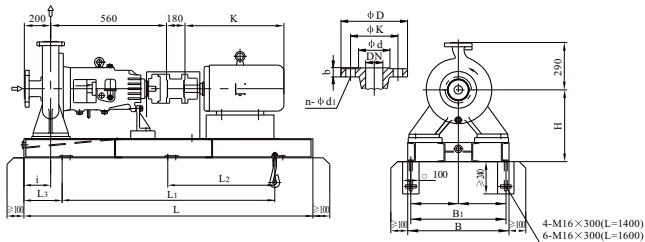
ZA100-2200 型泵 Type pump



法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd1	
进口法兰 Inlet flange	100	235	24	190	156	8-Φ22	
出口法兰 Outlet flange	100	235	24	190	156	8-Φ22	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd1	
进口法兰 Inlet flange	100	228.6	23.9	190.5	157.2	8-Φ19.1	
出口法兰 Outlet flange	100	228.6	23.9	190.5	157.2	8-Φ19.1	

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L ₁	L ₂	L ₃	B	B ₁	H	h	i	K	泵 Pump	电机 Motor	底座 Foundation	其它 Other	总重 Total weight
100L	1250	840	205	230	440	400	350	65	90		113	45	80	20	
112M												53	80	20	
132S/M												84/101	80	20	
160M/L	1400	940	230	270	530	490	365	80				150/170	90/100	20	
180M								40				225	120	20	
200L								80				300	120	20	
225M												440	100	20	
250M												510	150	20	
280S/M	1800	1200	600	300	720	670	450	100					650/800	170	20

ZA100-2250 型泵 Type pump

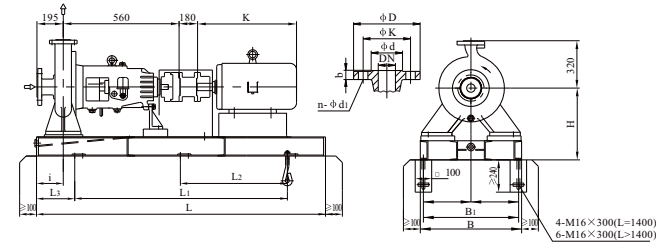


法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd1	
进口法兰 Inlet flange	150	300	28	250	211	8-Φ26	
出口法兰 Outlet flange	100	235	24	190	156	8-Φ22	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd1	
进口法兰 Inlet flange	150	279.4	25.4	241.3	215.9	8-Φ22.4	
出口法兰 Outlet flange	100	228.6	23.9	190.5	157.2	8-Φ19.1	

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)					
	L	L ₁	L ₂	L ₃	B	B ₁	H	h	i	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight	
112M	1400	940	230		530	490	365	80	105		132		53	95	20	
132S/M													84/101	95	20	
160M/L													150/170	95	20	
180M/L	1600	1060	270							225/270		110	20			
200L										300		110	20			
225S/M										390/440		110	20			
250M										510		150	20			
280S/M	1800	1200	600	300	720	670	450	100					650/800	165	20	

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

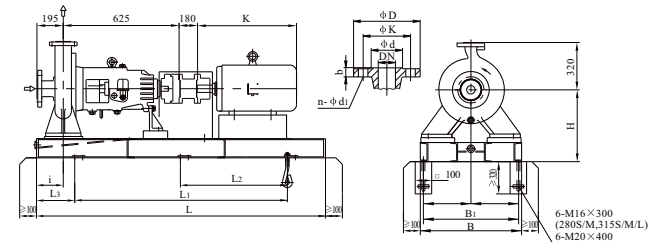
ZA100-2315 型泵 Type pump



法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd1	
进口法兰 Inlet flange	150	300	28	250	211	8-Φ26	
出口法兰 Outlet flange	100	235	24	190	156	8-Φ22	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd1	
进口法兰 Inlet flange	150	279.4	25.4	241.3	215.9	8-Φ22.4	
出口法兰 Outlet flange	100	228.6	23.9	190.5	157.2	8-Φ19.1	

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)					
	L	L1	L2	L3	B	B1	H	h	i	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight	
132S/M	1400	940	230	270	530	490	365	80	105		173		84/101	90	20	
160M/L													150/170	90	20	
180M/L	1600	1060											225/270	90	20	
200L													300	95	20	
225S/M													390/440	95	20	
250M						510	170	20								
280S/M	1800	1200	600		300	720	670	450				100			650/800	170

ZA100-3315 型泵 Type pump



法兰尺寸 Flange dimension		执行标准 Adopted standard GB9113.1-2000 PN2.5MPa					
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd1	
进口法兰 Inlet flange	150	300	28	250	211	8-Φ26	
出口法兰 Outlet flange	100	235	24	190	156	8-Φ22	
法兰尺寸 Flange dimension		执行标准 Adopted standard ANSI B16.5 CLASS 150Lb RF					
名称 Name	DN	ΦD	b	ΦK	Φd	n-Φd1	
进口法兰 Inlet flange	150	279.4	25.4	241.3	215.9	8-Φ22.4	
出口法兰 Outlet flange	100	228.6	23.9	190.5	157.2	8-Φ19.1	

机座号 Foundation No.	尺寸 Dimension (mm)										近似重量 Approximate weight (kg)				
	L	L1	L2	L3	B	B1	H	h	i	K	泵 Pump	电机 Motor	底座 Founda- tion	其它 Other	总重 Total weight
180M/L	1600	1060	530	270	530	490	430	80	105		193	225/270	130	20	
200L												300	130	20	
225S/M												390/440	130	20	
250M	1800	1200	600	300	720	670	450	140	175			510	200	20	
280S/M												650/800	180	20	
315S/M/L							2000	1400	700			530	100	105	
355S/M/L	2350	1750	875		850	810	597	200	230			1690/1840 /2100	400	20	