

**hydroo®**

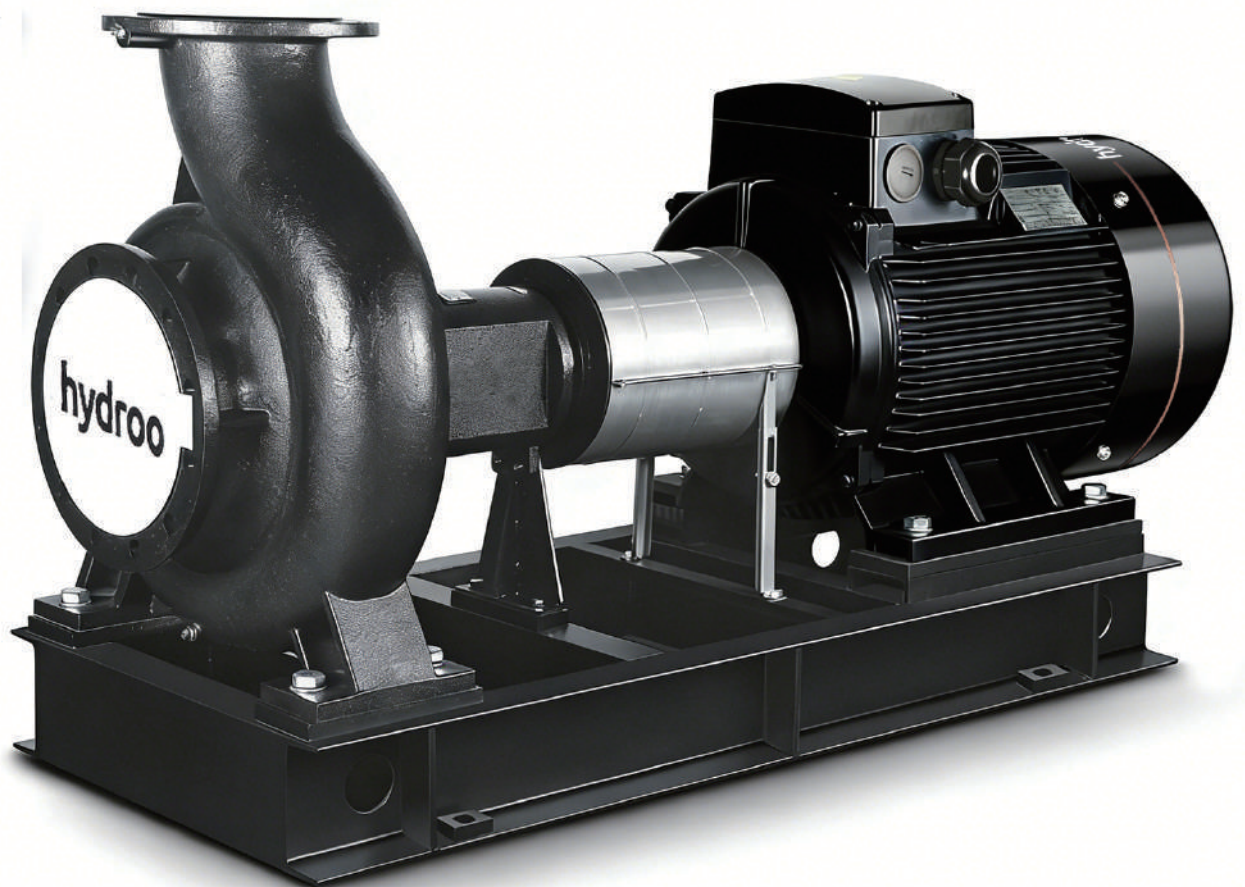
**NDROO SERIES**

NLF, NLX, NLN

Single stage end suction pump

单级端吸泵

50Hz





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# PRESENTATION

**HYDROO has set up a worldwide distribution network together with key partners, providing value to our pump engineers and end users. Ours is a wide range product portfolio with high-end solutions for the pumping business in many applications including water supply, booster sets, fire-fighting sets, borehole wells, HVAC, drainage and sewage, utilities, irrigation, desalination and RO sets, OEM Integration among many others. We provide solutions for all the markets of 50 Hz and 60 Hz, including customized versions.**

**HYDROO has a factory in Palol de Revardit (Catalonia-Spain) seized to guarantee our reliable, long-term based, personalized treatment and best service to all our customers. We can provide a wide range of products in an extremely short delivery time from our factory, thanks to our Lean manufacturing processes and our qualified enthusiastic team.**

**We have compiled our commitment with ethics and legislation in relation to third parties in a public document of principles. The document has been worked with the entire Hydroo team and its deployment has been started with a committee that will ensure compliance and strengthening in the business culture of the company.**

**The expansion of HYDROO by means of excellence in operations and successful business relationship with our partners is symbolized in the growth pace in the target markets and the valuable timely and effective service.**

**At HYDROO we bet on a high level service to our valued pump partners.**



# NLF, NLX, NLN

Single stage end suction  
centrifugal pump

## Applications

Cooling water

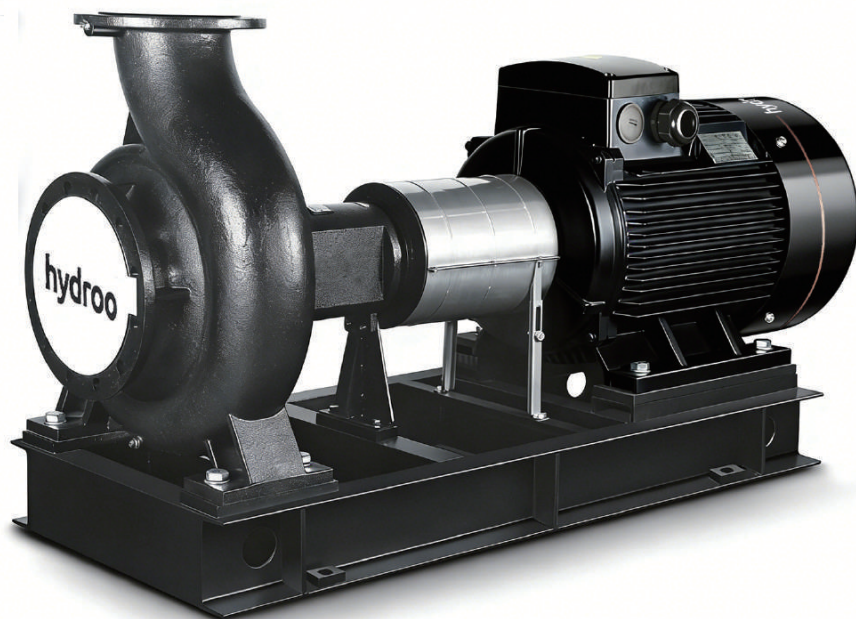
Water supply/distribution

Heating and air conditioning  
system

Fire sprinkler system

Drainage/Irrigation

General industrial services



## Description

NL series is a new generation, high-efficiency non-self-priming horizontal single-stage single-suction centrifugal pump independently developed with reference to the European standard EN733.

## Standard material

Casing: Cast iron or stainless steel

Impeller: Cast iron or stainless steel

Shaft: Stainless steel

## Performance range

Capacity: Q up to 620 m<sup>3</sup>/h

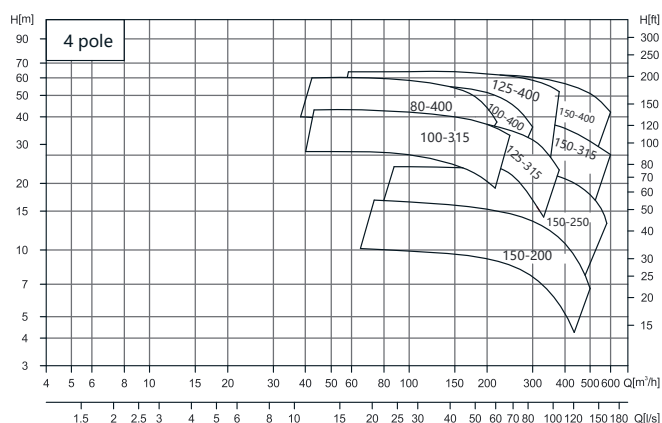
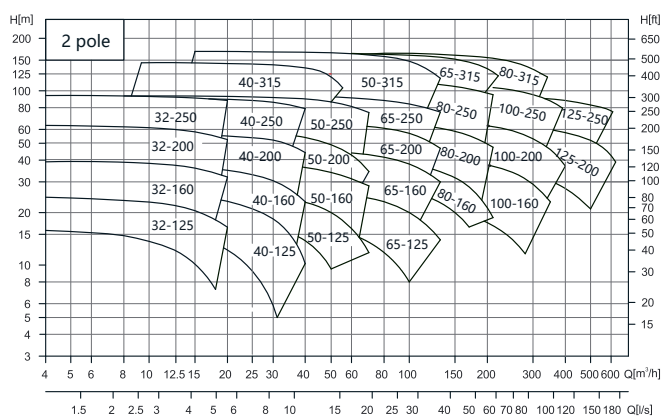
Head: H up to 160 m

Temperature: T up to 110 °C

Speed: n 2950/2900/1480 rpm

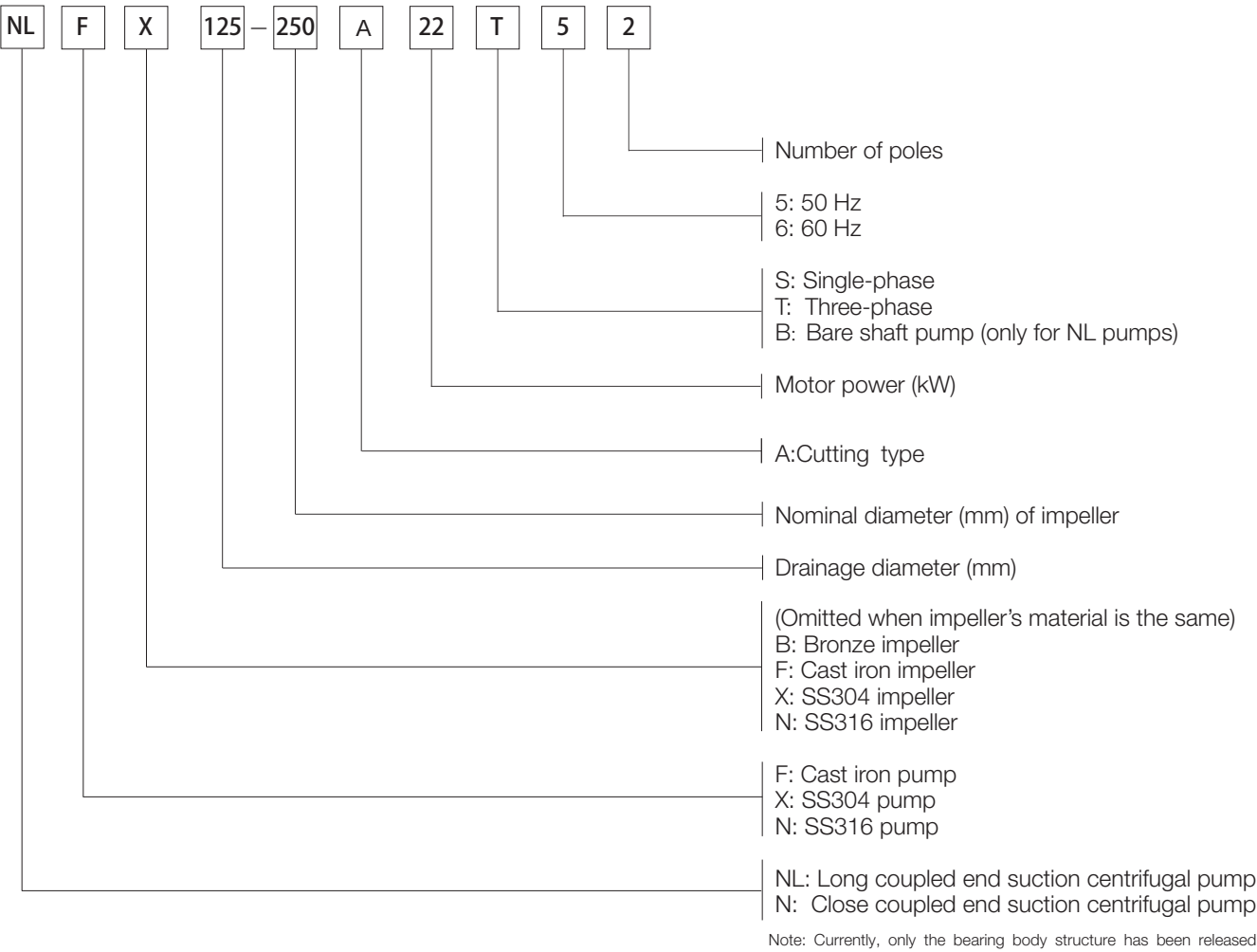
Power: P up to 160 kW

## Performance scope



Definition of model

NLFX 125-250 22



Product Overview

–The NL series is independently based on the European standard EN733A new generation of high-efficiency non self suction horizontal single-stage research and development Single suction centrifugal pump. This product adopts a brand new hydraulic andStructural design with energy-saving, low-noise, and compact structureCompact, aesthetically pleasing, easy to use and maintain, reliableHigher characteristics. Compared with similar international products,All technical indicators are at the international advanced level and have a wide range of capabilitiesA broad application market.

Features

–The pump is a non self suction, single-stage single suction horizontal pump Axial inlet and radial outlet structure.  
–The external installation dimensions of the pump comply with EN733 standard. Adopting a rear pull structure, there is no need to remove the pump body during maintenance.And pipelines. Adopting excellent hydraulic models and undergoing CFD optimization, high hydraulic efficiency,lowest pump energy efficiency index Standard MEI≥0.4. The water pump runs smoothly and has low noise.  
–Wide flow range and performance comparable to international peersProduct level, pump inlet and outlet flanges comply with

GB/T pump inlet and outlet flanges comply with GB/T 17241.6(ISO 7005-2) standard,presure rating PN16. Pump and ElectricThe machine adopts a standard claw type coupling connection and is equipped with a full Close the protective cover.  
–Adopting maintenance free deep groove ball bearings.  
–Adopting a floating mouth ring structure greatly improves Pump volumetric efficiency.

Applications

–NL pump is a multi-purpose product that can transportDelivering various media from tap water to industrial liquids,Mainly used asequipment for transporting, pressurizing, and circulating liquids use. For example: water supply system, heating, air conditioning system Boosting water supply, constant pressure water supply, fire sprinkler system Irrigation, livestock use, industrial cooling, heating cycle Systems, industrial transportation, and emission systems.

Operating conditions

The product is suitable for conveying clean, thin, noncorrosive Non flammable and non explosive, and does not contain solid particles, fibers, or A liquid with physical and chemical properties similar to water.  
–Maximum working pressure: 16 bar  
–Liquid temperature: -15 ℃~110 ℃  
–Environmental temperature: maximum+40 ℃  
–Altitude: up to 1000m  
–Rotation direction: clockwise (viewed from the motor fan blade end)

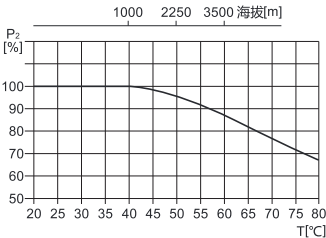
Curve conditions

–The following instructions apply to the curve shown

later:The curve tolerance complies with GB/T3216-2016 (ISO 9906:20)12) 2B level.  
–All curves are based on a constant speed of 2950rpm/2900rpm or 1480rpm. The experimental medium is at a temperature of 20 ℃ and does not contain anySolid impurities and air in clear water have a kinematic viscosity of 1mm<sup>2</sup>/s.The use of the pump should refer to the performance range of the bold curve to prevent Insufficient flow can cause overheating or excessive flow can lead to motor overload.

Maximum ambient temperature, altitude

–When the pump operates at an ambient temperature greater than 40 or at a high altitude.When operating at 1000m, due to low air density, it is cold.But the effect is poor, the motor output power P will have a certain Reduce. Motor power when the pump operates under the above conditions Need to increase.



## Minimum import pressure

–If the pressure in the pump is lower than the vaporization of the conveyed liquid Pressure may cause cavitation, to avoid cavitation, ensure There is a minimum pressure and maximum suction H [m] on the inlet side of the pump It can be calculated according to the following formula:

– $H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$

– $P_b$ =atmospheric pressure [bar]

–(Atmospheric pressure can be set to 1 bar)

–In a closed system,  $P_b$  is the system pressure [bar]

–NPSH=Net Positive Suction Head [m]

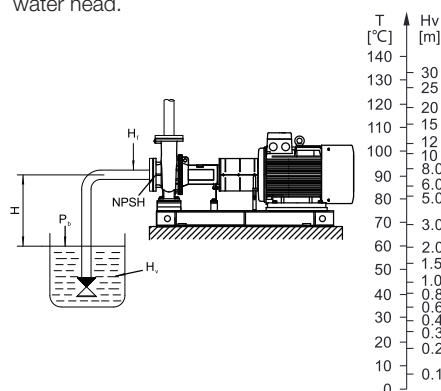
–(can be read from the possible maximum flow rate of the pump on the NPSH curve)

– $H_f$ =inlet pipeline loss [m]

– $H_v$ =vaporization pressure [m]

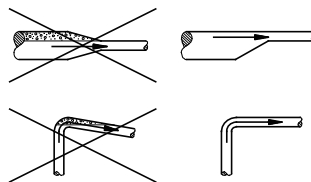
– $H_s$ =safety margin=minimum 0.5m water head

–If the calculated H is positive, the pump can operate at maximum suction Run under the condition of Cheng H. If the calculated H is negative, There must be a minimum inlet pressure H for the water head.

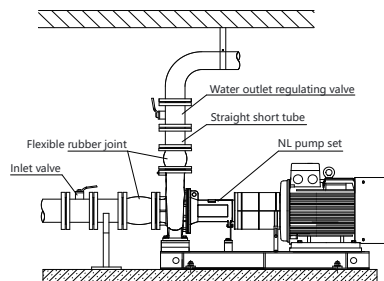


## Pipeline installation conditions

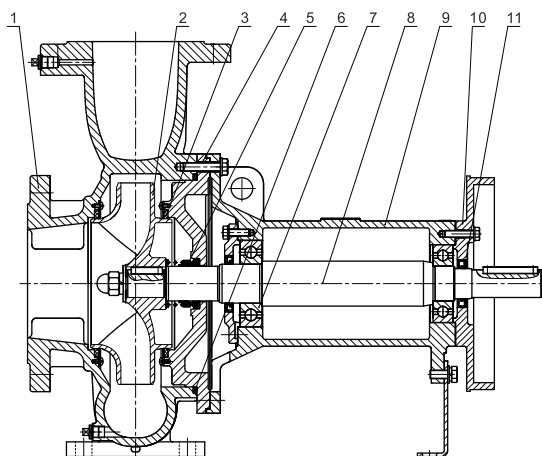
–When installing pipelines, it is necessary to ensure that the pump body does not bear Pipeline stress. The size of the suction and drainage pipes must be appropriate, while also taking into account the inlet pressure of the pump.



–Install one on each inlet and outlet pipeline of the pump isolation valve for cleaning or maintenance of the pump when necessary There is no need to drain the system during maintenance.  
–Ensure that the pipeline is located as close as possible to the pump Provide sufficient support (inlet and outlet sides) for docking The flange should be tightly attached to the flange of the pump without being pulled Tensile stress, as the presence of tensile stress can damage the pump.



## NLF, NLX, NLN Sectional drawing



## NLF, NLX, NLN Part list

| N° | Parts                    | Material                 | AISI/ASTM       |
|----|--------------------------|--------------------------|-----------------|
| 1  | Casing                   | Cast Iron QT500-7        | ASTM80-55-06    |
| 2  | Impeller                 | Cast Iron*/SS304         | AISI304/ASTM25B |
| 3  | Oral Ring                | PPS                      |                 |
| 4  | Cover                    | Cast Iron HT200          | ASTM25B         |
| 5  | Mechanical seal          | Carbon / Silicon Carbide |                 |
| 6  | O ring                   | EPDM / FPM               |                 |
| 7  | Deep groove ball bearing | Composite components     |                 |
| 8  | Shaft                    | 20Cr13                   | AISI420         |
| 9  | Suspension               | Cast Iron HT200          | ASTM25B         |
| 10 | Bearing cover            | Cast Iron HT200          | ASTM25B         |
| 11 | Seal                     | NBR                      |                 |

“\*” Explanation: The impeller material for pumps with outlet diameters of DN32~DN80 is AISI304, and for pumps with outlet diameters of DN100~DN150, the impeller material is HT200.

# 公司简介

HYDROO建立了一个全球性的销售服务网络，为各类泵工程和水泵终端用户提供专业可靠的产品和服务。HYDROO拥有完善的产品系列，在包括供水、增压、消防、地下水抽取、暖通、排水、污水、市政、灌溉、海水淡化和反渗透等诸多领域，为客户提供各类高端泵产品和泵解决方案。HYDROO的产品满足市场上50Hz/60Hz不同需求，并为客户提供个性化定制服务。

HYDROO位于西班牙巴塞罗那的生产、研发总部和位于中国杭州的工厂，是我们为客户提供长期可靠、专业的个性化定制服务的有力保障。得益于我们精益化的生产流程和专业高效的运营团队，HYDROO保证在极短的时间内将产品交付到客户手上。

在一份由全体员工参与的公开文件中，我们列明了对第三方道德与立法的承诺，并有相应的监督委员会监督并确保其执行。

营之有道，良好的客户关系，高效专业的服务，为客户创造最大价值的同时，推动着HYDROO在全球市场的快速发展。

HYDROO的宗旨是始终致力于为全球范围内的合作伙伴提供高端泵产品和泵解决方案，为客户创造更大的价值。

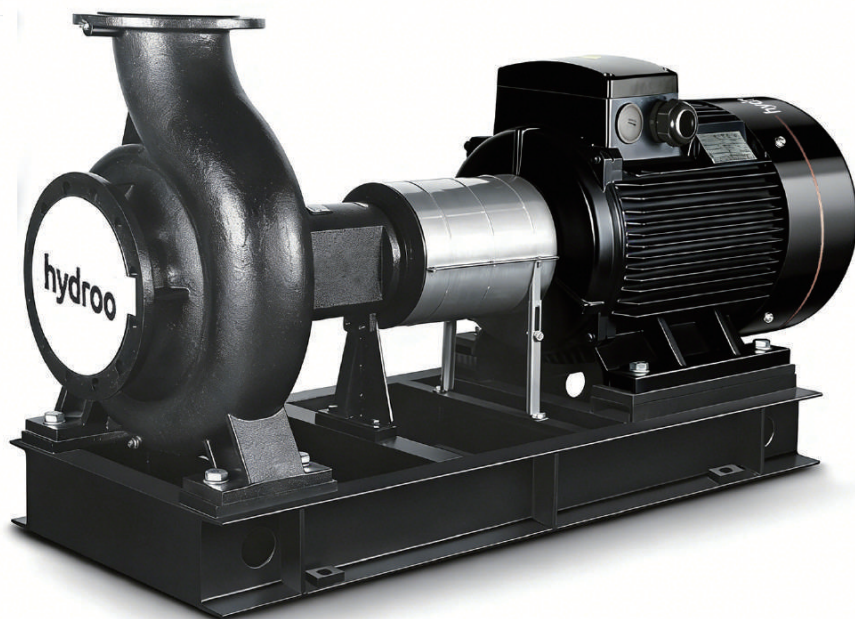


# NLF, NLX, NLN

## 单级端吸泵

### 应用

冷却水系统  
供水系统  
供热、空调系统  
消防喷淋系统  
排水、灌溉  
一般工业服务



### 描述

NL系列为参照欧洲标准EN733自主研发的新一代、高效率非自吸卧式单级单吸离心泵。该产品采用全新的水力和结构设计，具有节能、低噪声、结构紧凑、外观美观、使用维护方便、可靠性高等特点。

该泵与国际同类产品相比，各项技术指标居国际先进水平，具有广阔的应用市场。

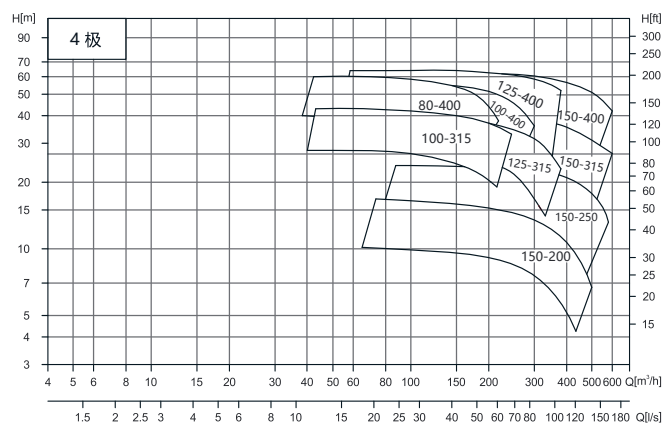
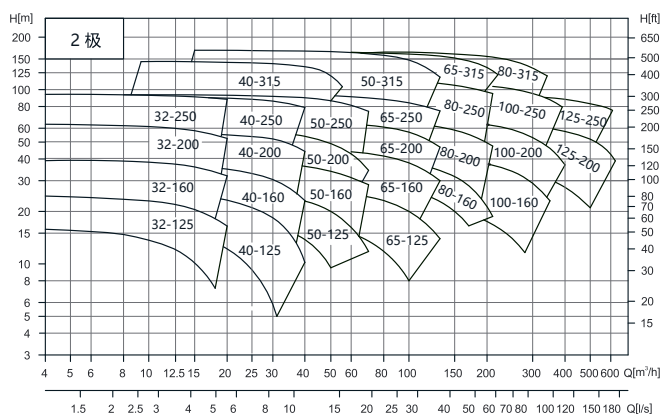
### 标准材质

泵壳：铸铁或不锈钢  
叶轮：铸铁或不锈钢  
泵轴：不锈钢

### 性能范围

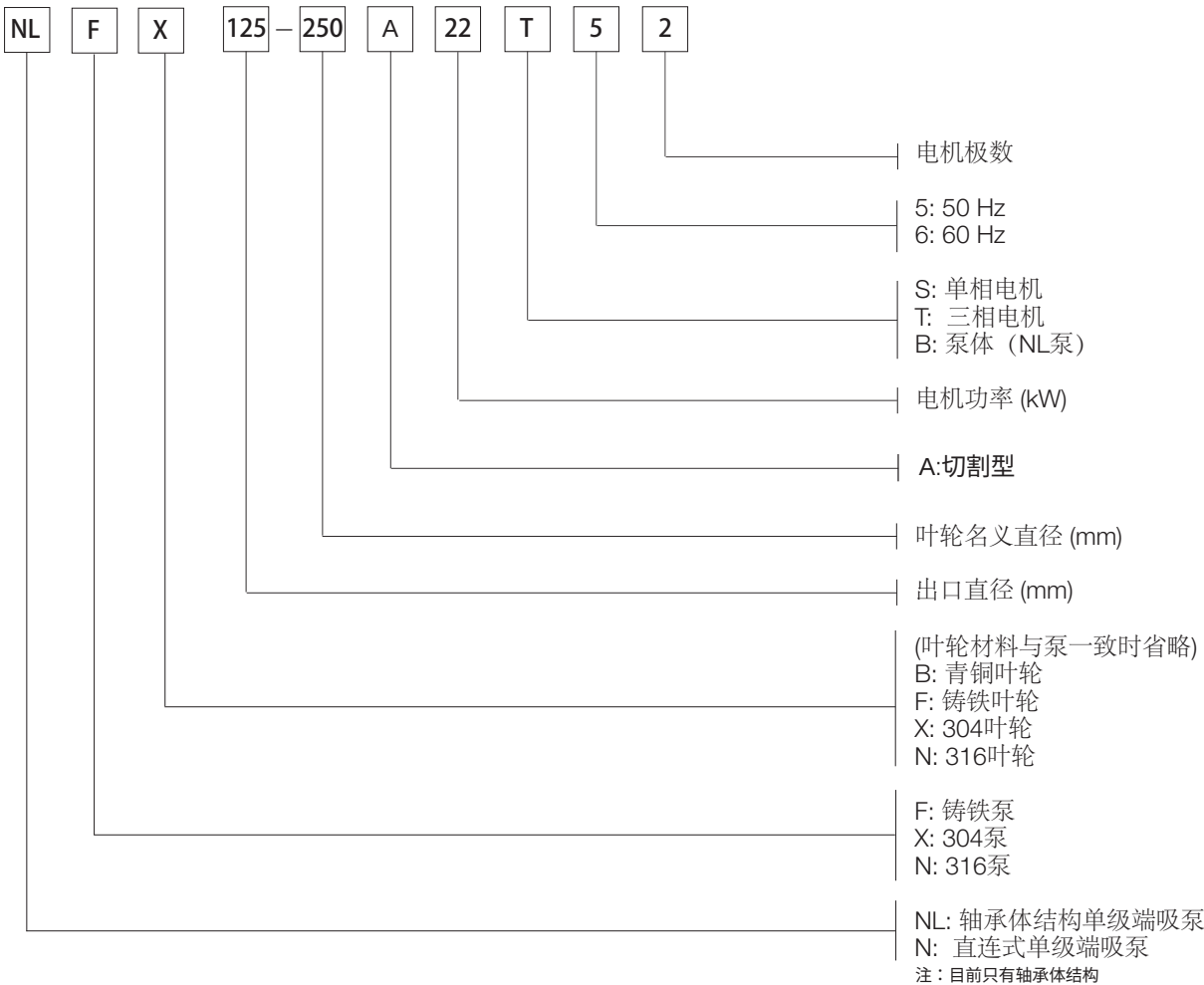
流量：最大620 m³/h  
扬程：最高160 m  
温度：最高110 °C  
转速：2950/2900/1480 rpm  
功率：最大160 kW

### 性能范围



型号说明

NLFX 125-250 22



产品概述

NL系列为参照欧洲标准EN733自主研发的新一代、高效率非自吸卧式单级单吸离心泵。该产品采用全新的水力和结构设计，具有节能、低噪声、结构紧凑、外观美观、使用维护方便、可靠性高等特点。该泵与国际同类产品相比，各项技术指标居国际先进水平，具有广阔的应用市场。

产品特点

- 泵为非自吸、单级单吸卧式、轴向进水、径向出水结构。
- 泵外形安装尺寸符合EN733标准。
- 采用后拉式结构，维修时无须拆除泵体及管路。
- 采用优秀的水力模型，并经过CFD优化，水力效率高，泵最低能效指标MEI≥0.4。
- 水泵运行平稳、噪音低。
- 流量范围宽，性能达到国际同类产品水平。
- 泵进出口法兰符合GB/T 17241.6 (ISO 7005-2)标准，压力等级PN16。
- 泵和电机采用标准爪型联轴器连接，并配有全封闭防护罩。
- 采用免维护深沟球轴承。
- 采用浮动式口环结构，大大提高了泵容积效率。

典型应用

NL泵是一种多用途产品，可以输送从自来水到工业液体的各种不同介质，主要作为液体的输送、增压和循环设备使用。例如:供水系统、供热、空调系统、增压供水、恒压供水、消防喷淋系统、灌溉、畜牧使用、工业冷却、加热循环系统、工业输送、排放系统。

运行条件

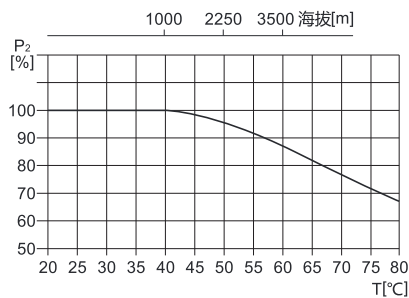
- 产品适用于输送清洁、稀薄、非侵蚀、非易燃易爆，且不含固体颗粒、纤维或者物理化学性质类似于水的液体。
- 最大工作压力:16bar
- 液体温度:-15℃~110℃
- 环境温度:最高+40℃
- 海拔:最高1000m
- 旋转方向:顺时针(从电机风叶端看)

曲线条件

- 下列说明适用于后面所示的曲线:
  - 曲线容差符合GB/T3216-2016(ISO 9906:2012)2B等级。
  - 所有曲线都基于转速在恒2950rpm/2900rpm/1480rpm。试验用介质为温度20℃，不含任何固体杂质和空气的清水，运动粘度为1mm²/s。
  - 泵的使用参照加粗曲线的性能范围，以防流量过小产生过热或流量过大导致电机过载。

最大环境温度、海拔

当泵在环境温度大于40℃或海拔大于1000m下运行时，由于空气密度低冷却效果差，电机输出功率P<sub>2</sub>，会有一定降低。泵在上述情况下运行时电机功率需加大。



电机参数

- 电机为全封闭，风扇冷却，IEC标准电机。
- 防护等级:IP55
- 绝缘等级:F
- 电机为50Hz，三相，2极和4极。

## 最小进口压力

如果泵中的压力低于输送液体的汽化压力，可能发生汽蚀，为避免汽蚀，确保泵进口侧有一最小压力，最大吸程H[m]可按下式计算：

$$H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$$

$P_b$  = 大气压力 [bar]

(大气压力可设定为1bar)

在闭式系统中， $P_b$  为系统压力 [bar]

NPSH = 净正吸头 [m]

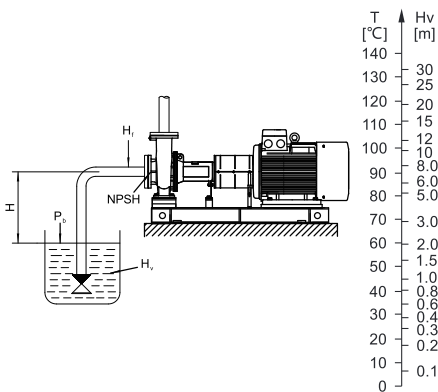
(可从NPSH曲线上泵可能的最大流量处读取)

$H_f$  = 入口的管路损失 [m]

$H_v$  = 汽化压力 [m]

$H_s$  = 安全余量 = 最小0.5m水头

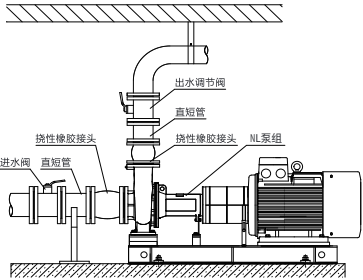
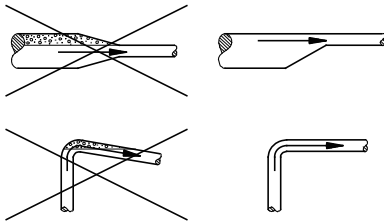
如计算所得H为正值，泵可在最大吸程H情况下运行。如计算所得H为负值，必须有一最小进口压力H的水头。



## 管道安装条件

安装管道时，必须确保泵体不承受管道应力。吸水管和排水管尺寸必须恰当，同时需要考虑到泵的入口压力。

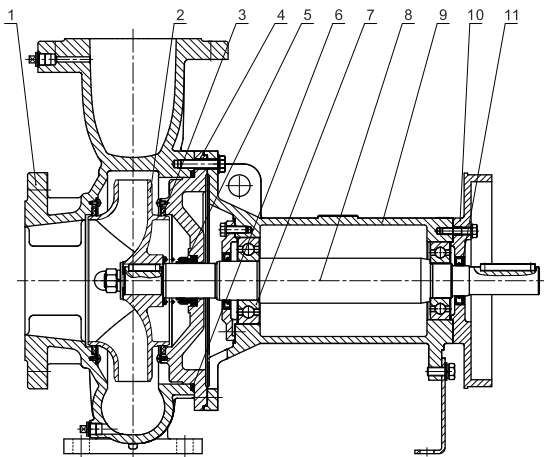
安装管道，避免产生气阻，特别是在泵的入口侧。见下图：



在泵的进出口管道上分别安装一个隔离阀，以便在需要对泵进行清洁或维修时无须将系统排干。

确保在尽可能接近泵的地方为管道提供足够的支撑(入口侧和出口侧)对接法兰应该与泵的法兰紧贴而又不受到牵拉应力，因为牵拉应力的存在会损坏泵。

## NLF, NLX, NLN 截面图



## NLF, NLX, NLN 材质

| 序号 | 零件名称  | 材料        | 对照代号/AISI/ASTM  |
|----|-------|-----------|-----------------|
| 1  | 泵体    | 铸铁QT500-7 | ASTM80-55-06    |
| 2  | 叶轮    | 不锈钢或铸铁*   | AISI304或ASTM25B |
| 3  | 口环    | PPS       |                 |
| 4  | 泵盖    | 铸铁HT200   | ASTM25B         |
| 5  | 机械密封  | 石墨/碳化硅    |                 |
| 6  | O形橡胶圈 | EPDM/FPM  |                 |
| 7  | 深沟球轴承 | 组合件       |                 |
| 8  | 泵轴    | 不锈钢20Cr13 | AISI420         |
| 9  | 悬架体   | 铸铁HT200   | ASTM25B         |
| 10 | 轴承外压盖 | 铸铁HT200   | ASTM25B         |
| 11 | 油封    | 丁腈橡胶NBR   |                 |

\*说明：出口口径DN32~DN80泵叶轮材质为AISI304，出口口径DN100~DN150泵叶轮材质为HT200。

## Models 产品型号

| N°<br>序号 | Model<br>型号   | Q<br>(m³/h) | H(m)  | $\eta$ [%] | NPSH[m] | motor<br>电机(kW) | n[r/min] | Flow<br>流量范围[m³/h] | Inlet<br>入口 | outlet<br>出口 |
|----------|---------------|-------------|-------|------------|---------|-----------------|----------|--------------------|-------------|--------------|
| 1        | NL32-125 0.75 | 12.5        | 12    | 58         | 2.1     | 0.75            | 2900     | 3.5~18             | DN50        | DN32         |
| 2        | NL32-125 1.1  | 12.5        | 17.5  | 59.5       | 2       | 1.1             | 2900     | 4~20               | DN50        | DN32         |
| 3        | NL32-125 1.5  | 12.5        | 22    | 62         | 2       | 1.5             | 2900     | 4~20               | DN50        | DN32         |
| 4        | NL32-160 2.2  | 12.5        | 29.5  | 54         | 1.8     | 2.2             | 2900     | 4~18               | DN50        | DN32         |
| 5        | NL32-160 3    | 12.5        | 37    | 54.5       | 2.4     | 3               | 2900     | 4~20               | DN50        | DN32         |
| 6        | NL32-200 4    | 12.5        | 45    | 48         | 2.2     | 4               | 2900     | 4~20               | DN50        | DN32         |
| 7        | NL32-200 5.5  | 12.5        | 60    | 48         | 2.9     | 5.5             | 2900     | 4.5~20             | DN50        | DN32         |
| 8        | NL32-250 7.5  | 12.5        | 75.5  | 41         | 2.3     | 7.5             | 2900     | 4.5~18             | DN50        | DN32         |
| 9        | NL32-250 11   | 12.5        | 92    | 39         | 2.3     | 11              | 2950     | 5~20               | DN50        | DN32         |
| 10       | NL40-125 1.1  | 20          | 12    | 62.5       | 2.5     | 1.1             | 2900     | 5~30               | DN65        | DN40         |
| 11       | NL40-125 1.5  | 22.5        | 15    | 65         | 2.7     | 1.5             | 2900     | 5.5~35             | DN65        | DN40         |
| 12       | NL40-125 2.2  | 25          | 21    | 73         | 3       | 2.2             | 2900     | 6~40               | DN65        | DN40         |
| 13       | NL40-160 3    | 25          | 26.5  | 66         | 2.5     | 3               | 2900     | 7~35               | DN65        | DN40         |
| 14       | NL40-160 4    | 25          | 33    | 68         | 2.3     | 4               | 2900     | 8~40               | DN65        | DN40         |
| 15       | NL40-200 5.5  | 25          | 39    | 63         | 2.4     | 5.5             | 2900     | 8~40               | DN65        | DN40         |
| 16       | NL40-200 7.5  | 25          | 53.5  | 62         | 2.1     | 7.5             | 2900     | 9~40               | DN65        | DN40         |
| 17       | NL40-250 11   | 25          | 75    | 57         | 2.6     | 11              | 2950     | 8~35               | DN65        | DN40         |
| 18       | NL40-250 15   | 25          | 88    | 57         | 2.8     | 15              | 2950     | 9~40               | DN65        | DN40         |
| 19       | NL40-315 18.5 | 32          | 86    | 48         | 2.8     | 18.5            | 2950     | 9.5~42             | DN65        | DN40         |
| 20       | NL40-315 22   | 36          | 90    | 48.5       | 3.2     | 22              | 2950     | 10~45              | DN65        | DN40         |
| 21       | NL40-315 30   | 42.5        | 109   | 50         | 3.7     | 30              | 2950     | 11~52              | DN65        | DN40         |
| 22       | NL40-315 37   | 45          | 130   | 52         | 4       | 37              | 2950     | 12~55              | DN65        | DN40         |
| 23       | NL50-125 2.2  | 35          | 15    | 69.5       | 3.1     | 2.2             | 2900     | 10~50              | DN65        | DN50         |
| 24       | NL50-125 3    | 40          | 17    | 72.5       | 3       | 3               | 2900     | 11~55              | DN65        | DN50         |
| 25       | NL50-125 4    | 50          | 20    | 75         | 3       | 4               | 2900     | 12~70              | DN65        | DN50         |
| 26       | NL50-160 5.5  | 50          | 26    | 73         | 3.2     | 5.5             | 2900     | 12~70              | DN65        | DN50         |
| 27       | NL50-160 7.5  | 50          | 34    | 74         | 3.5     | 7.5             | 2900     | 12~70              | DN65        | DN50         |
| 28       | NL50-200 11   | 50          | 49    | 68         | 4       | 11              | 2950     | 15~70              | DN65        | DN50         |
| 29       | NL50-250 15   | 50          | 63    | 64         | 3.3     | 15              | 2950     | 14~65              | DN65        | DN50         |
| 30       | NL50-250 18.5 | 50          | 76    | 64.5       | 3.2     | 18.5            | 2950     | 15~65              | DN65        | DN50         |
| 31       | NL50-250 22   | 50          | 86    | 65         | 3.2     | 22              | 2950     | 16~70              | DN65        | DN50         |
| 32       | NL50-315 30   | 70          | 82    | 62         | 4       | 30              | 2950     | 20~95              | DN65        | DN50         |
| 33       | NL50-315 37   | 75          | 95    | 63         | 4.5     | 37              | 2950     | 22~100             | DN65        | DN50         |
| 34       | NL50-315 45   | 80          | 105   | 63.5       | 5       | 45              | 2950     | 22~110             | DN65        | DN50         |
| 35       | NL50-315 55   | 86          | 116.5 | 64         | 5.5     | 55              | 2950     | 23~120             | DN65        | DN50         |
| 36       | NL50-315 75   | 100         | 148   | 65         | 6.5     | 75              | 2950     | 24~130             | DN65        | DN50         |
| 37       | NL65-125 4    | 70          | 13.5  | 73.5       | 4.8     | 4               | 2950     | 18~100             | DN80        | DN65         |

## Models 产品型号

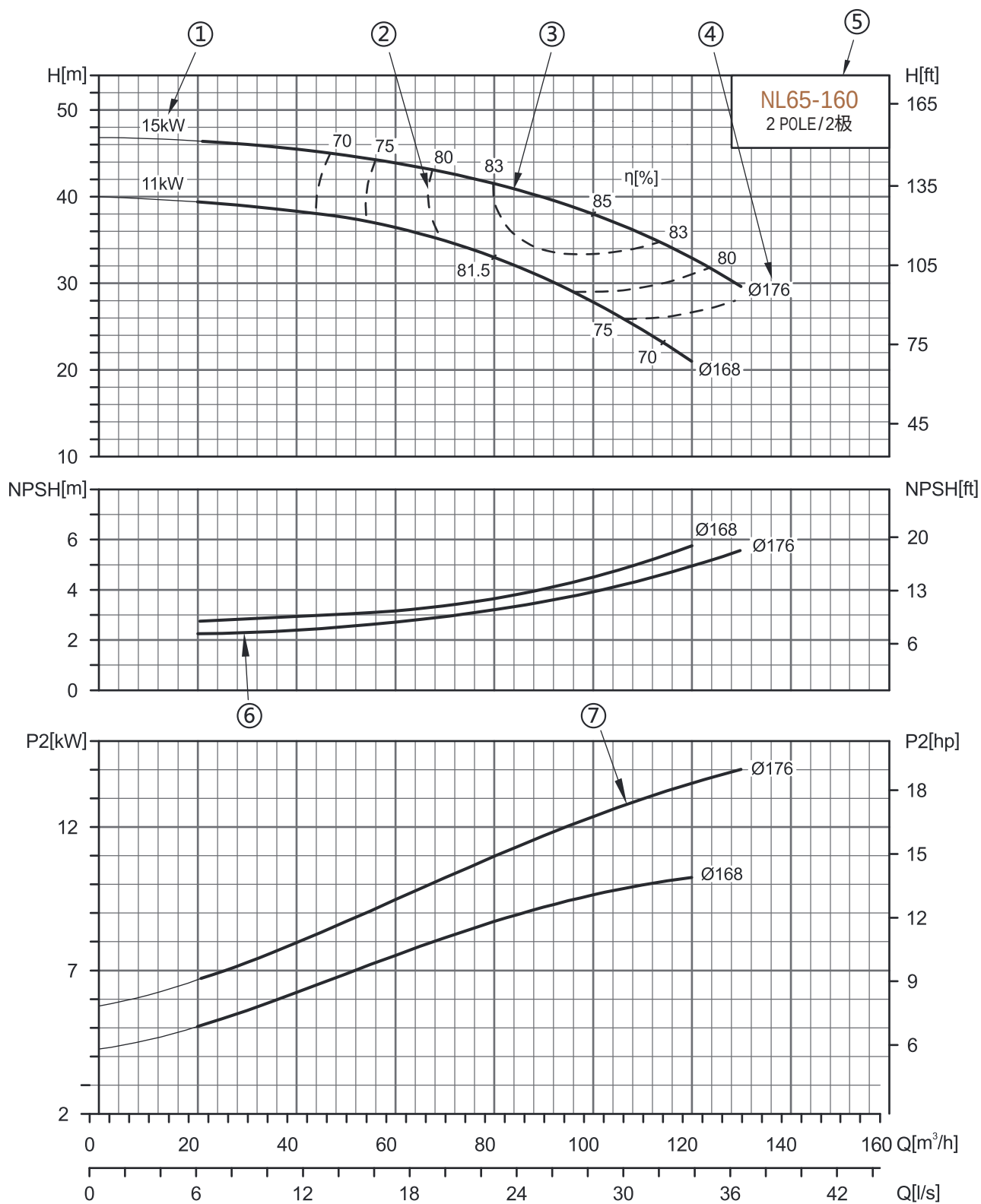
| N°<br>序号 | Model<br>型号    | Q<br>(m³/h) | H(m) | $\eta$ [%] | NPSH[m] | motor<br>电机 (kW) | n[r/min] | Flow<br>流量范围[m³/h] | Inlet<br>入口 | outlet<br>出口 |
|----------|----------------|-------------|------|------------|---------|------------------|----------|--------------------|-------------|--------------|
| 38       | NL65-125 5.5   | 80          | 17.5 | 78         | 4.5     | 5.5              | 2900     | 19~120             | DN80        | DN65         |
| 39       | NL65-125 7.5   | 100         | 20   | 81         | 4.2     | 7.5              | 2900     | 20~130             | DN80        | DN65         |
| 40       | NL65-160 11    | 80          | 33   | 81.5       | 3.5     | 11               | 2950     | 20~120             | DN80        | DN65         |
| 41       | NL65-160 15    | 100         | 38   | 85         | 4       | 15               | 2950     | 21~130             | DN80        | DN65         |
| 42       | NL65-200 18.5  | 100         | 48   | 79.5       | 4.5     | 18.5             | 2950     | 24~125             | DN80        | DN65         |
| 43       | NL65-200 22    | 100         | 57   | 81         | 4.2     | 22               | 2950     | 25~130             | DN80        | DN65         |
| 44       | NL65-250 30    | 100         | 73   | 76.5       | 5       | 30               | 2950     | 27~125             | DN80        | DN65         |
| 45       | NL65-250 37    | 100         | 84   | 76         | 5       | 37               | 2950     | 28~130             | DN80        | DN65         |
| 46       | NL65-315 45    | 125         | 86   | 71         | 4.5     | 45               | 2950     | 28~145             | DN80        | DN65         |
| 47       | NL65-315 55    | 135         | 95   | 72         | 5       | 55               | 2950     | 29~160             | DN80        | DN65         |
| 48       | NL65-315 75    | 150         | 113  | 72.5       | 5.4     | 75               | 2950     | 30~190             | DN80        | DN65         |
| 49       | NL65-315 90    | 165         | 120  | 73         | 5.8     | 90               | 2950     | 31~210             | DN80        | DN65         |
| 50       | NL65-315 110   | 170         | 146  | 74         | 6.2     | 110              | 2950     | 33~220             | DN80        | DN65         |
| 51       | NL80-160 11    | 120         | 24.5 | 79.5       | 4.2     | 11               | 2950     | 24~165             | DN100       | DN80         |
| 52       | NL80-160 15    | 140         | 29   | 81.5       | 4.5     | 15               | 2950     | 27~190             | DN100       | DN80         |
| 53       | NL80-160 18.5  | 160         | 30   | 80         | 4.7     | 18.5             | 2950     | 28~210             | DN100       | DN80         |
| 54       | NL80-200 22    | 160         | 36   | 76         | 4.2     | 22               | 2950     | 36~210             | DN100       | DN80         |
| 55       | NL80-200 30    | 160         | 47.5 | 81         | 4       | 30               | 2950     | 38~210             | DN100       | DN80         |
| 56       | NL80-200 37    | 160         | 57   | 82         | 4       | 37               | 2950     | 38~210             | DN100       | DN80         |
| 57       | NL80-250 45    | 160         | 70   | 79.5       | 4.7     | 45               | 2950     | 37~200             | DN100       | DN80         |
| 58       | NL80-250 55    | 160         | 85   | 80         | 4.2     | 55               | 2950     | 39~205             | DN100       | DN80         |
| 59       | NL80-250 75    | 160         | 104  | 80         | 3.8     | 75               | 2950     | 40~210             | DN100       | DN80         |
| 60       | NL80-315 90    | 225         | 94   | 73         | 6.3     | 90               | 2950     | 45~290             | DN100       | DN80         |
| 61       | NL80-315 110   | 240         | 108  | 73.5       | 7.5     | 110              | 2950     | 46~310             | DN100       | DN80         |
| 62       | NL80-315 132   | 250         | 122  | 74         | 8.2     | 132              | 2950     | 48~325             | DN100       | DN80         |
| 63       | NL80-315 160   | 268         | 142  | 77         | 9.5     | 160              | 2950     | 50~340             | DN100       | DN80         |
| 64       | NL100-160 15   | 215         | 16.5 | 73         | 7.3     | 15               | 2950     | 42~280             | DN125       | DN100        |
| 65       | NL100-160 18.5 | 220         | 20.5 | 76         | 7.2     | 18.5             | 2950     | 44~300             | DN125       | DN100        |
| 66       | NL100-160 22   | 240         | 25   | 80.5       | 7       | 22               | 2950     | 46~320             | DN125       | DN100        |
| 67       | NL100-160 30   | 265         | 33   | 84.5       | 7       | 30               | 2950     | 51~350             | DN125       | DN100        |
| 68       | NL100-200 37   | 268         | 37   | 80.5       | 5.4     | 37               | 2950     | 54~350             | DN125       | DN100        |
| 69       | NL100-200 45   | 275         | 45   | 83.5       | 5.5     | 45               | 2950     | 56~375             | DN125       | DN100        |
| 70       | NL100-200 55   | 292         | 54   | 84.6       | 5.5     | 55               | 2950     | 59~400             | DN125       | DN100        |
| 71       | NL100-250 75   | 282         | 70   | 83         | 6       | 75               | 2950     | 56~355             | DN125       | DN100        |
| 72       | NL100-250 90   | 300         | 80   | 84.9       | 6.2     | 90               | 2950     | 59~375             | DN125       | DN100        |
| 73       | NL100-250 110  | 315         | 93   | 86.3       | 6.5     | 110              | 2950     | 62~390             | DN125       | DN100        |
| 74       | NL125-200 45   | 385         | 29   | 76.3       | 8.7     | 45               | 2950     | 78~505             | DN150       | DN125        |



## Models 产品型号

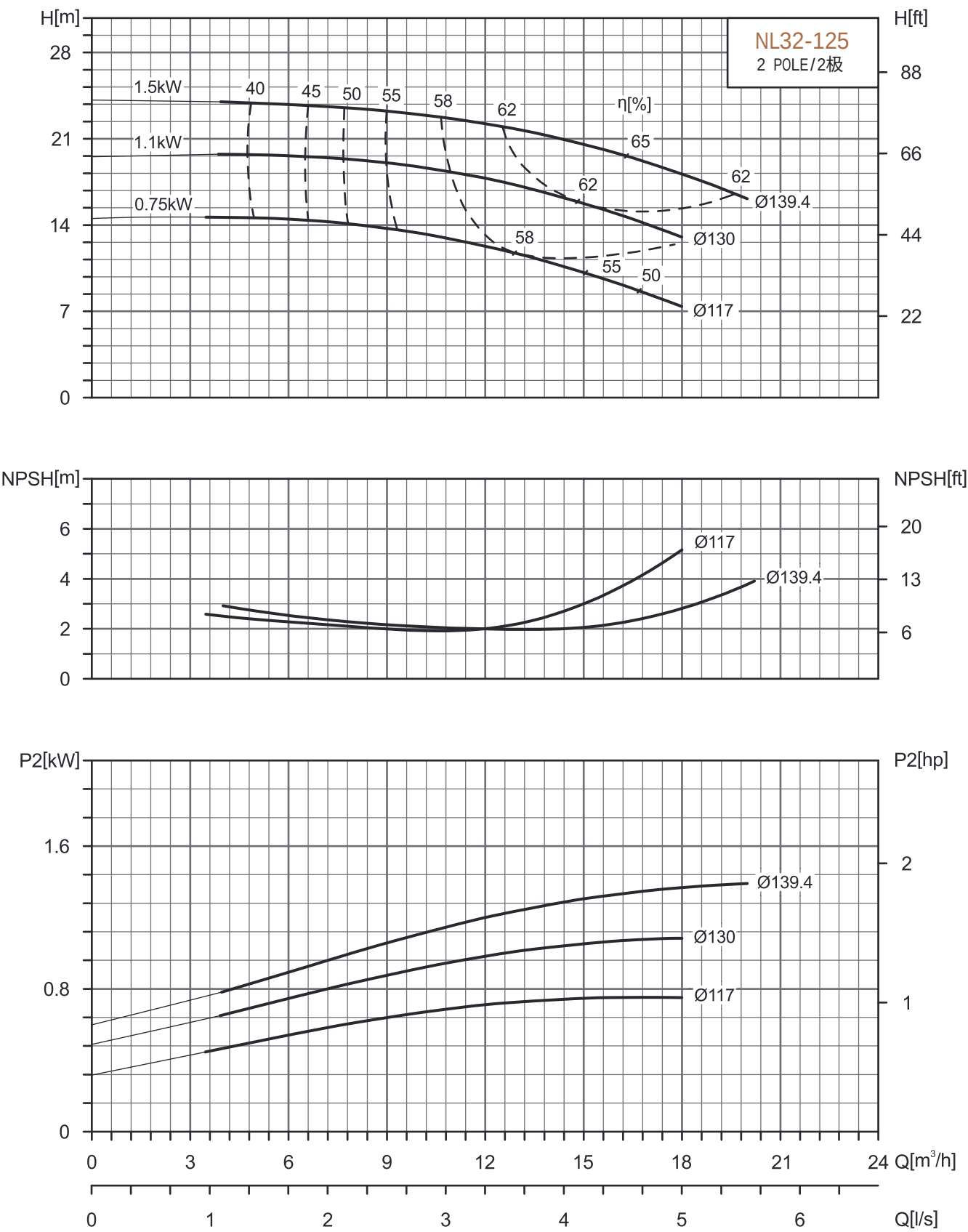
| N°<br>序号 | Model<br>型号    | Q<br>(m³/h) | H(m) | $\eta$ [%] | NPSH[m] | motor<br>电机(kW) | n[r/min] | Flow<br>流量范围[m³/h] | Inlet<br>入口 | outlet<br>出口 |
|----------|----------------|-------------|------|------------|---------|-----------------|----------|--------------------|-------------|--------------|
| 75       | NL125-200 55   | 425         | 34   | 79         | 9       | 55              | 2950     | 82~540             | DN150       | DN125        |
| 76       | NL125-200 75   | 468         | 43.5 | 83.2       | 9.3     | 75              | 2950     | 93~590             | DN150       | DN125        |
| 77       | NL125-200 90   | 500         | 52   | 86         | 9.5     | 90              | 2950     | 100~625            | DN150       | DN125        |
| 78       | NL125-250 110  | 500         | 62.5 | 82.5       | 9.8     | 110             | 2950     | 100~530            | DN150       | DN125        |
| 79       | NL125-250 132  | 550         | 68   | 83.2       | 10      | 132             | 2950     | 108~580            | DN150       | DN125        |
| 80       | NL125-250 160  | 580         | 78   | 85.5       | 10      | 160             | 2950     | 113~610            | DN150       | DN125        |
| 81       | NL80-400 18.5  | 125         | 33   | 70.5       | 3.4     | 18.5            | 1480     | 28~170             | DN100       | DN80         |
| 82       | NL80-400 22    | 135         | 37   | 73         | 3.2     | 22              | 1480     | 28~180             | DN100       | DN80         |
| 83       | NL80-400 30    | 150         | 46   | 75.5       | 3       | 30              | 1480     | 29~200             | DN100       | DN80         |
| 84       | NL80-400 37    | 154         | 53   | 76         | 3       | 37              | 1480     | 30~220             | DN100       | DN80         |
| 85       | NL100-315 18.5 | 180         | 26   | 80         | 3.2     | 18.5            | 1480     | 37~220             | DN125       | DN100        |
| 86       | NL100-315 22   | 190         | 29   | 80.5       | 3.5     | 22              | 1480     | 38~235             | DN125       | DN100        |
| 87       | NL100-315 30   | 205         | 37   | 81.7       | 3.8     | 30              | 1480     | 41~245             | DN125       | DN100        |
| 88       | NL100-400 37   | 205         | 43   | 77.8       | 2.7     | 37              | 1480     | 41~280             | DN125       | DN100        |
| 89       | NL100-400 45   | 218         | 50   | 78.5       | 3       | 45              | 1480     | 44~300             | DN125       | DN100        |
| 90       | NL125-315 30   | 250         | 30   | 84.5       | 3.1     | 30              | 1480     | 50~360             | DN150       | DN125        |
| 91       | NL125-315 37   | 260         | 34   | 86.4       | 2.8     | 37              | 1480     | 52~380             | DN150       | DN125        |
| 92       | NL125-400 45   | 282         | 40   | 81         | 3.4     | 45              | 1480     | 56~360             | DN150       | DN125        |
| 93       | NL125-400 55   | 300         | 48   | 81.8       | 3.5     | 55              | 1480     | 59~370             | DN150       | DN125        |
| 94       | NL125-400 75   | 310         | 58   | 82.1       | 3.5     | 75              | 1480     | 63~390             | DN150       | DN125        |
| 95       | NL150-200A 11  | 310         | 8    | 79         | 5.5     | 11              | 1480     | 62~450             | DN200       | DN150        |
| 96       | NL150-200 11   | 330         | 9    | 80         | 5.2     | 11              | 1480     | 63~460             | DN200       | DN150        |
| 97       | NL150-200A 15  | 350         | 10.5 | 80.5       | 4.8     | 15              | 1480     | 69~480             | DN200       | DN150        |
| 98       | NL150-200 15   | 360         | 12   | 82         | 4.5     | 15              | 1480     | 73~500             | DN200       | DN150        |
| 99       | NL150-250 18.5 | 400         | 12   | 79.5       | 5       | 18.5            | 1480     | 80~500             | DN200       | DN150        |
| 100      | NL150-250 22   | 420         | 14.5 | 83.5       | 4.6     | 22              | 1480     | 83~545             | DN200       | DN150        |
| 101      | NL150-250 30   | 440         | 20   | 87         | 4.2     | 30              | 1480     | 90~580             | DN200       | DN150        |
| 102      | NL150-315 37   | 400         | 25   | 84.5       | 3.2     | 37              | 1480     | 80~535             | DN200       | DN150        |
| 103      | NL150-315 45   | 416         | 30   | 85.2       | 3.4     | 45              | 1480     | 84~560             | DN200       | DN150        |
| 104      | NL150-315 55   | 440         | 34   | 85.5       | 3.5     | 55              | 1480     | 90~580             | DN200       | DN150        |
| 105      | NL150-400 75   | 430         | 47.5 | 85.9       | 3.5     | 75              | 1480     | 85~575             | DN200       | DN150        |
| 106      | NL150-400 90   | 448         | 54   | 86.6       | 5       | 90              | 1480     | 91~600             | DN200       | DN150        |

Performance Curve Diagram Explanation 性能曲线图说明

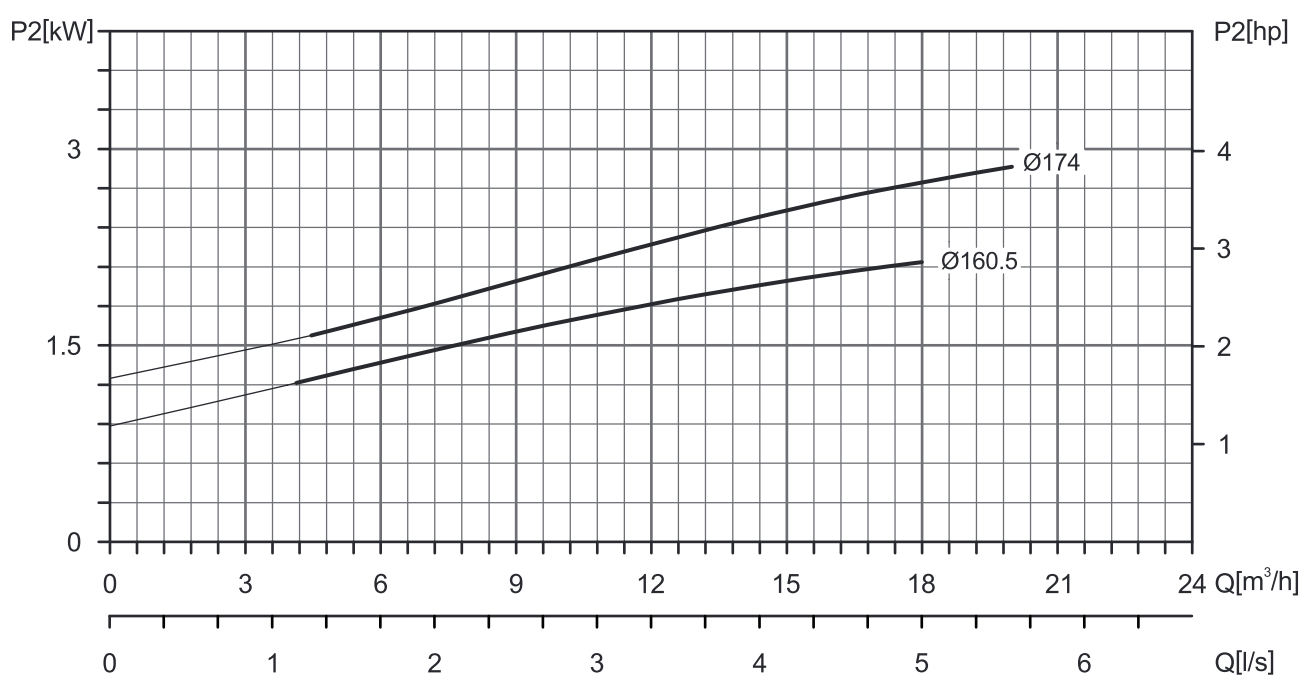
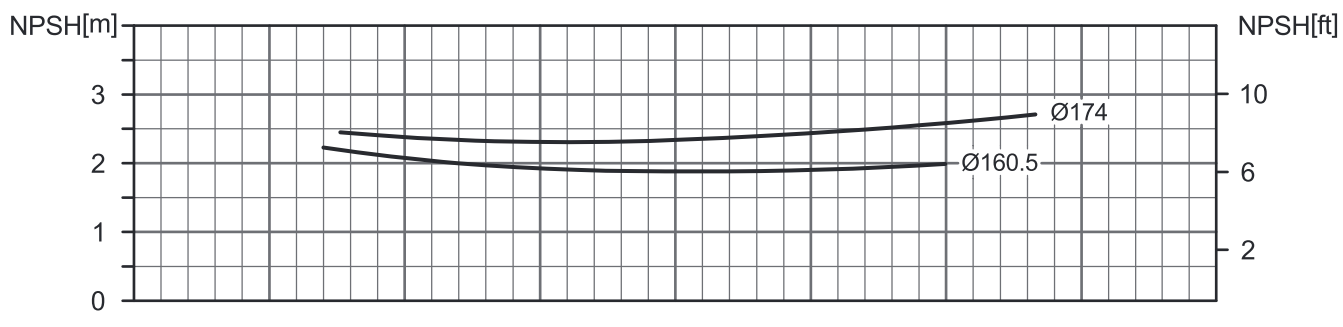
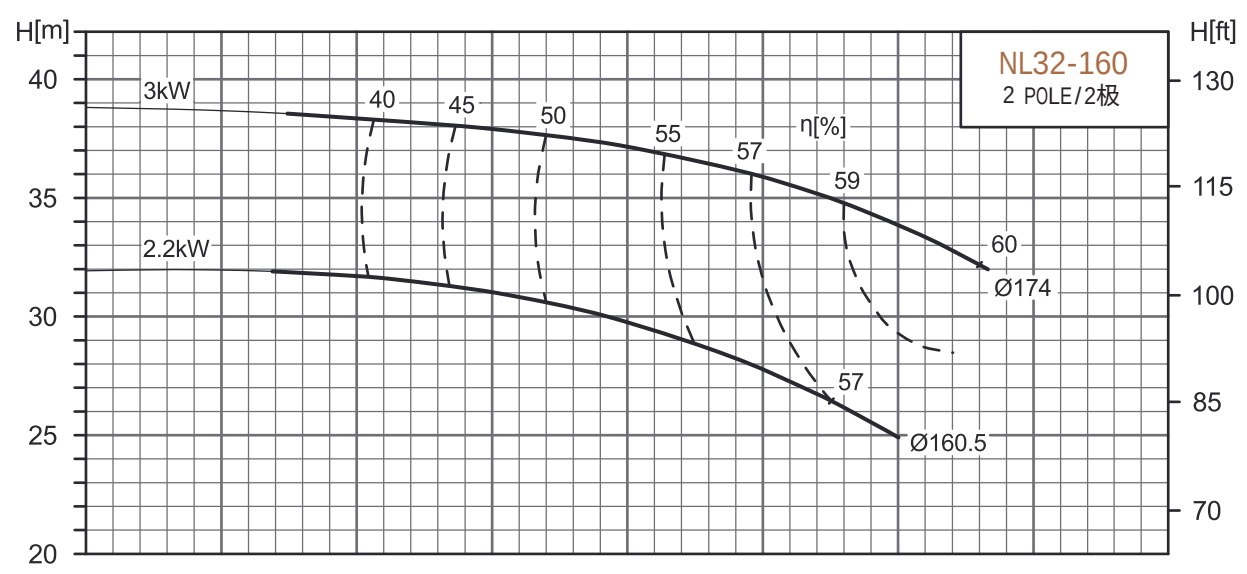


| N°<br>序号 | description<br>说明                                                                                  | N°<br>序号 | description<br>说明                        | N°<br>序号 | description<br>说明                               |
|----------|----------------------------------------------------------------------------------------------------|----------|------------------------------------------|----------|-------------------------------------------------|
| ①        | Supporting motor power [kW]<br>配套电机功率 [kW]                                                         | ④        | impeller diameter(mm)<br>叶轮直径(mm)        | ⑥        | Pump NPSH curve<br>泵汽蚀余量曲线                      |
| ②        | Pump efficiency curve,η[%]<br>泵效率曲线, η[%]                                                          | ⑤        | Model - Number of motor poles<br>型号-电机极数 | ⑦        | Pump shaft power curve,P2[kW]<br>泵轴功率曲线, P2[kW] |
| ③        | Pump head curve; Bold curves represent the recommended scope of application<br>泵扬程曲线；粗体曲线表示推荐的应用范围 |          |                                          |          |                                                 |

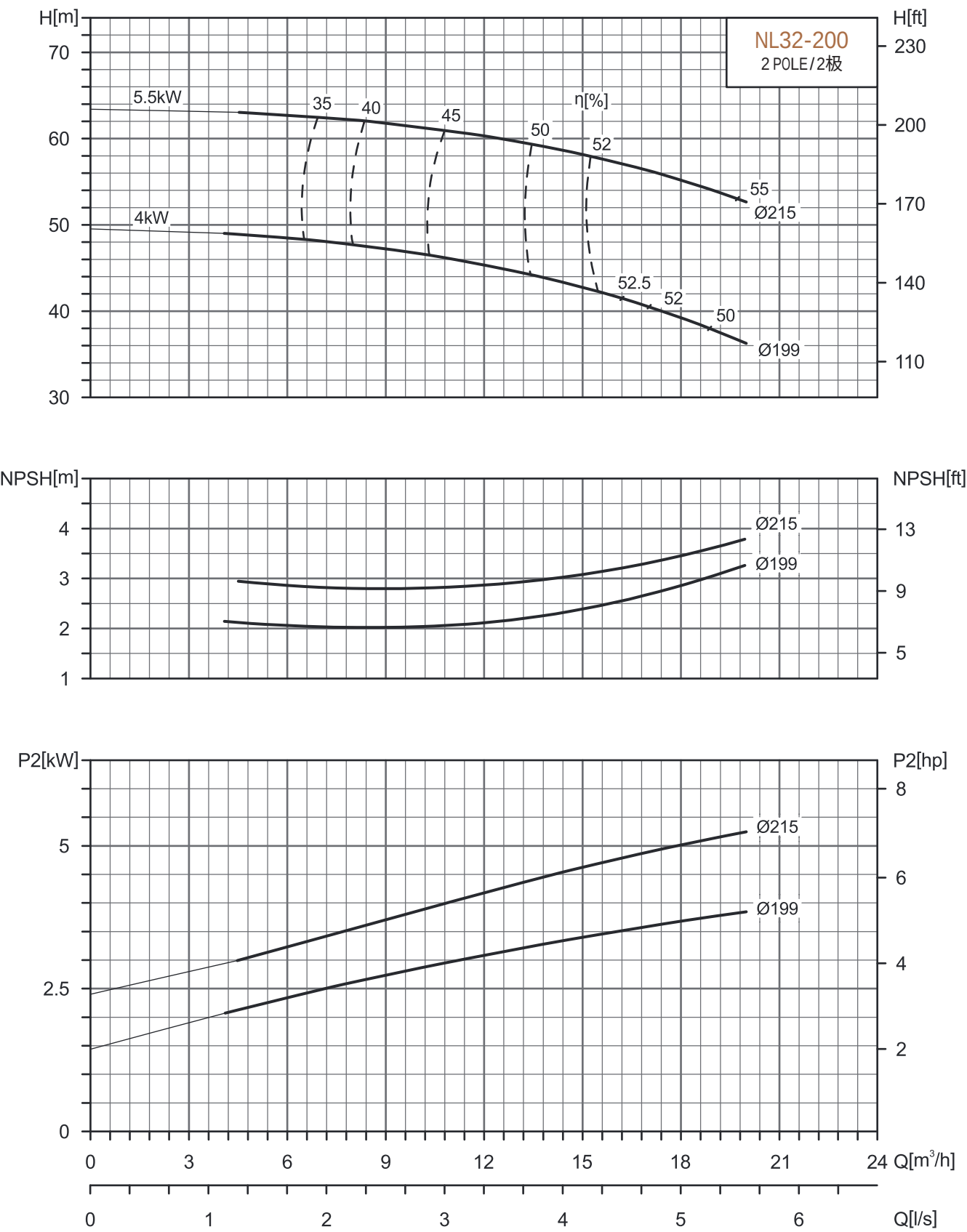
# NL32-125



# NL32-160

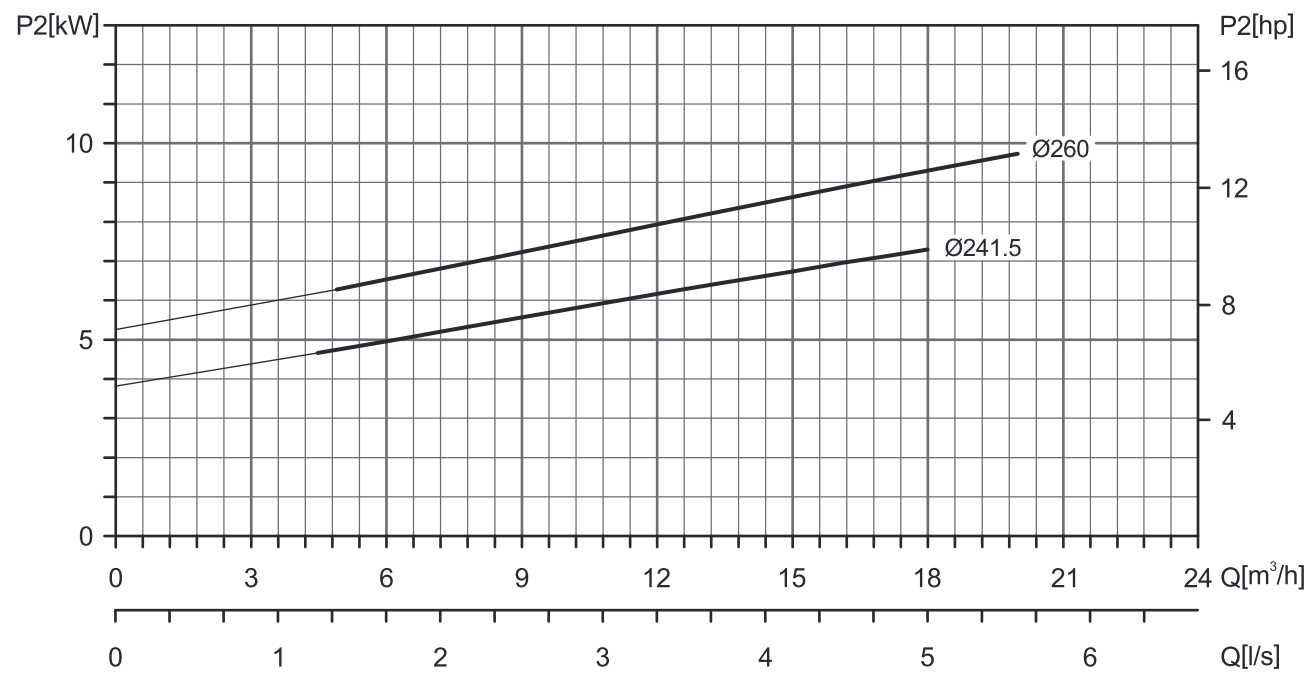
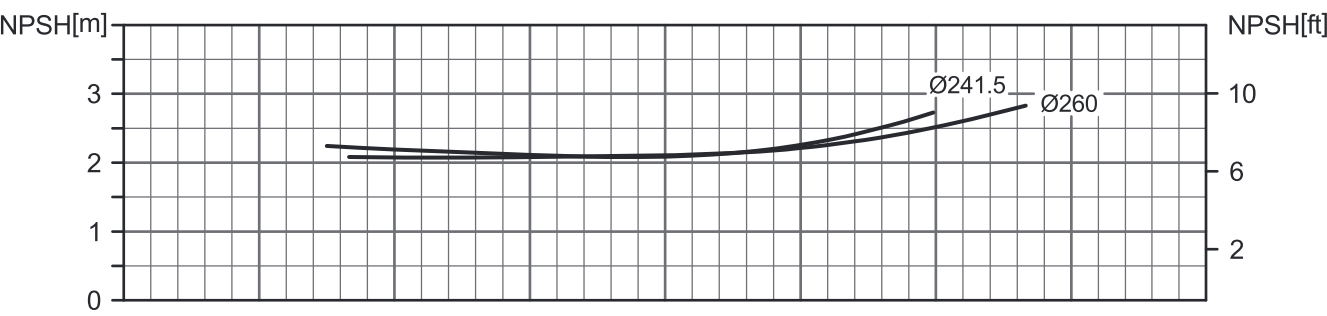
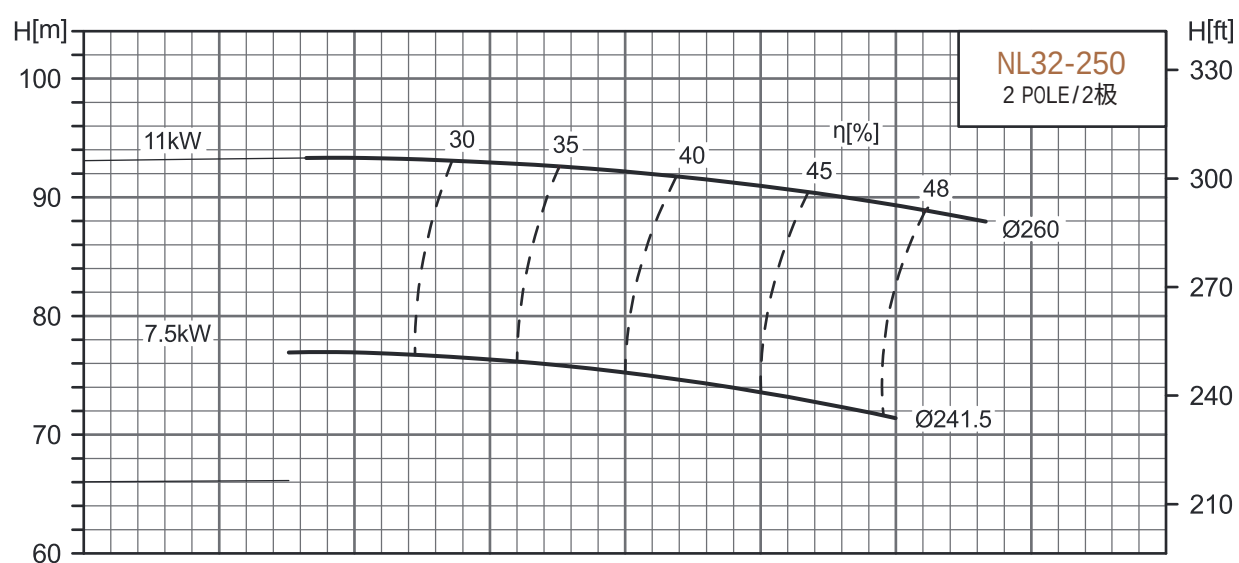


NL32-200

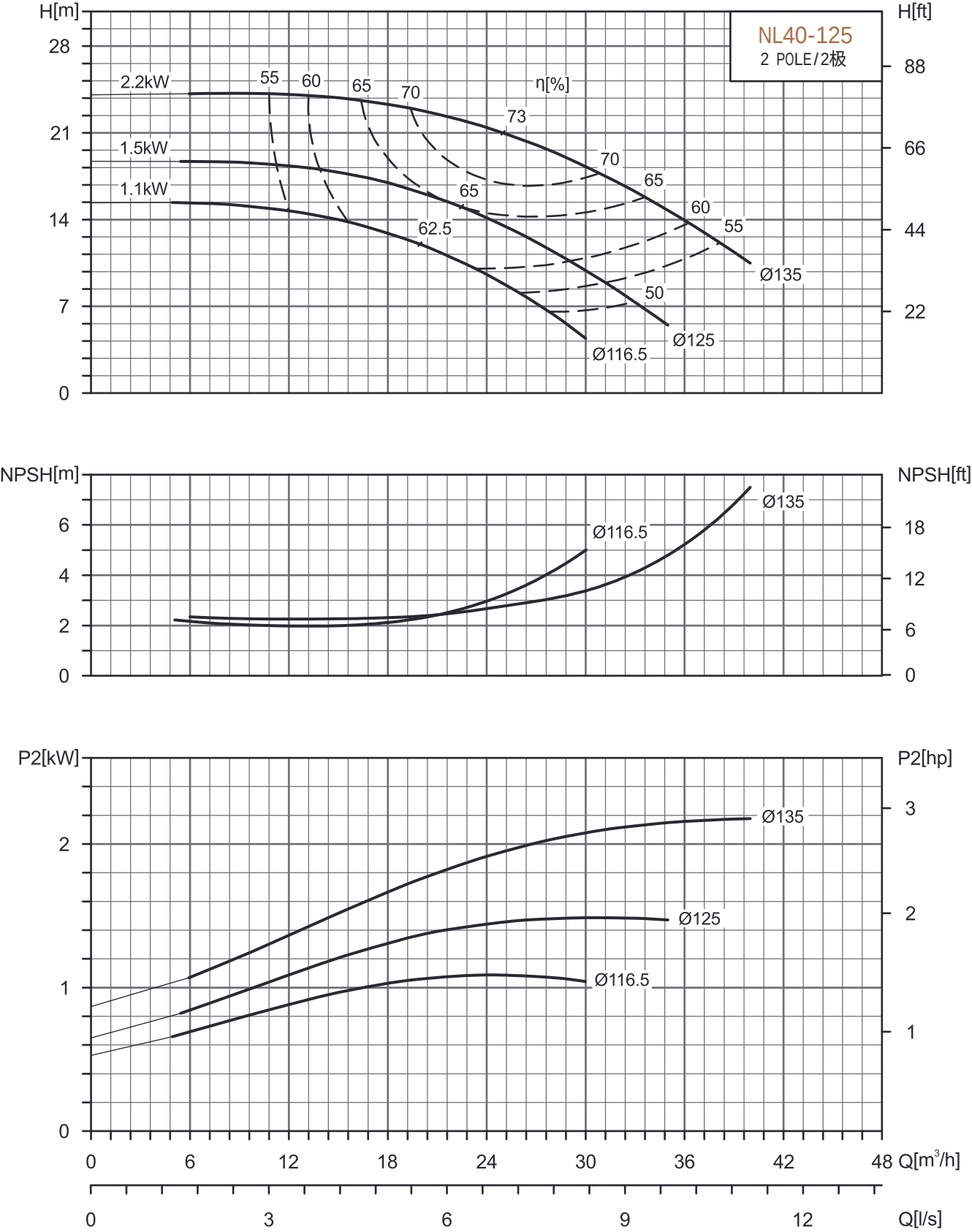




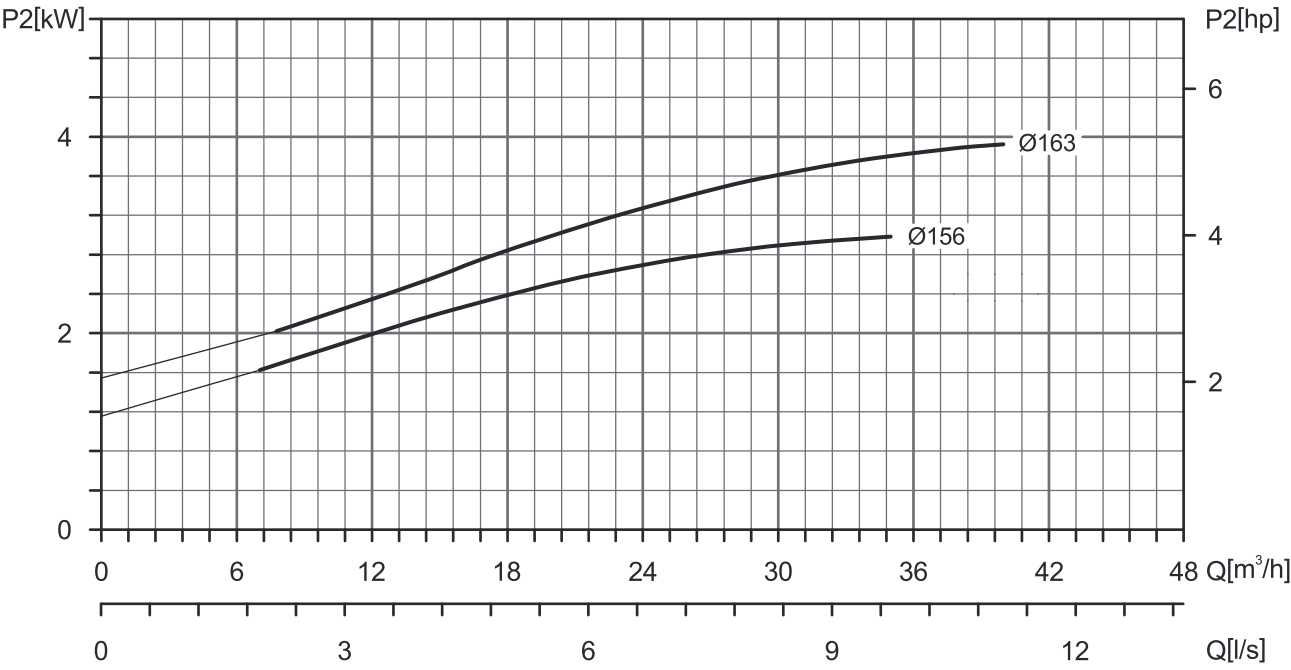
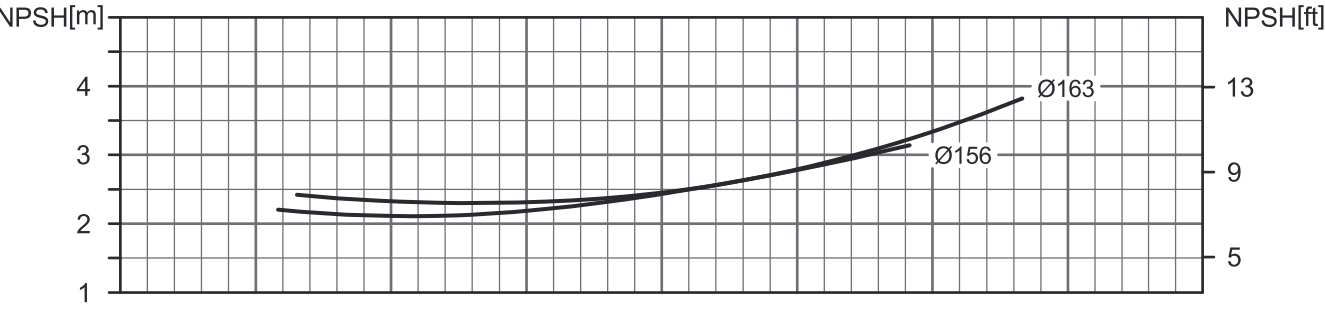
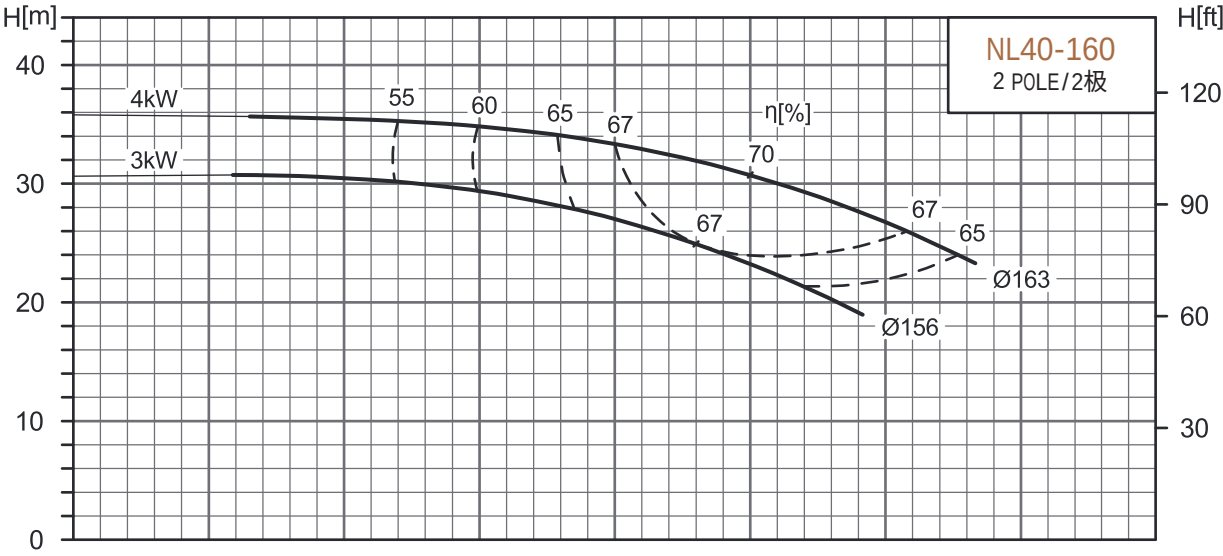
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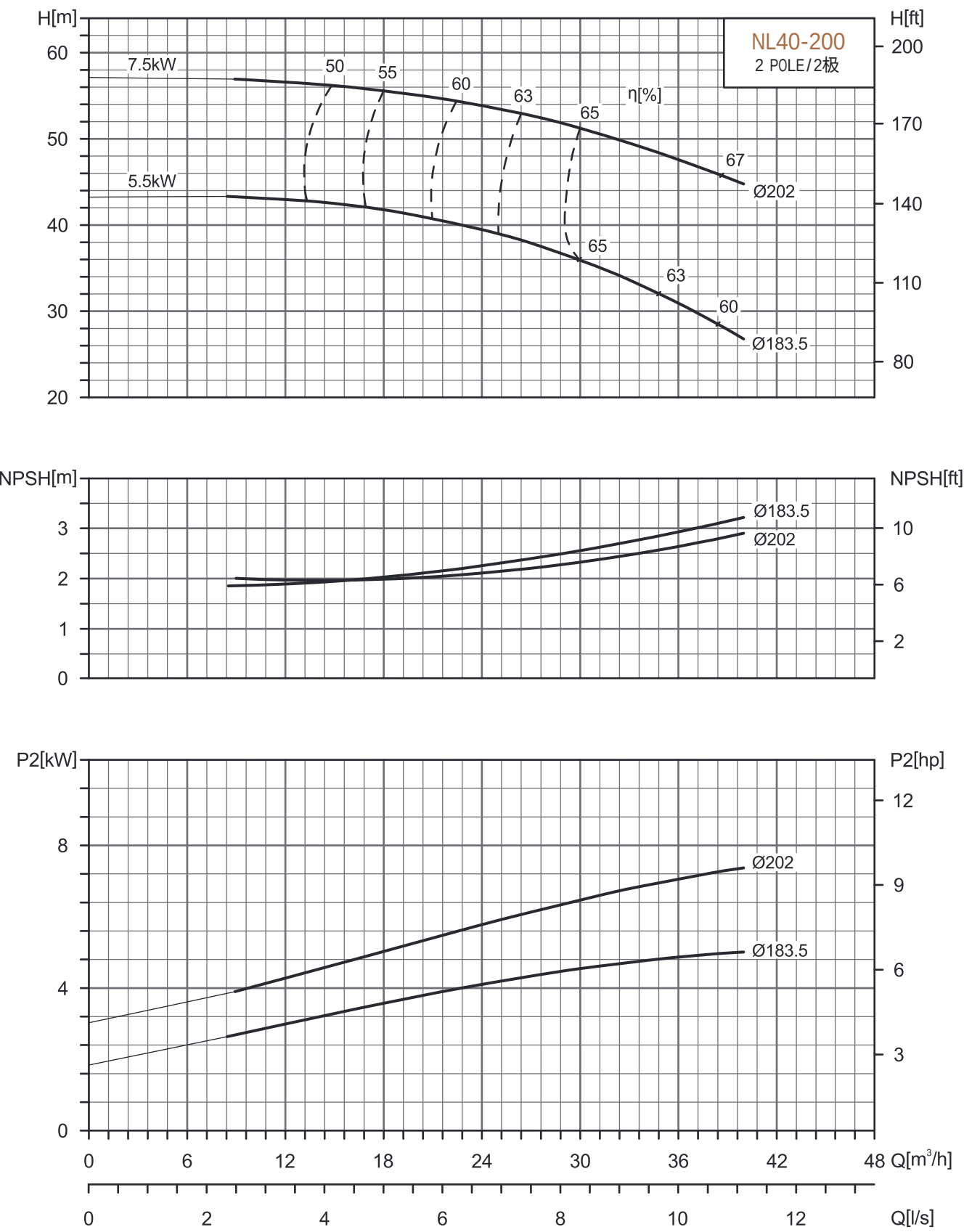
# NL40-125



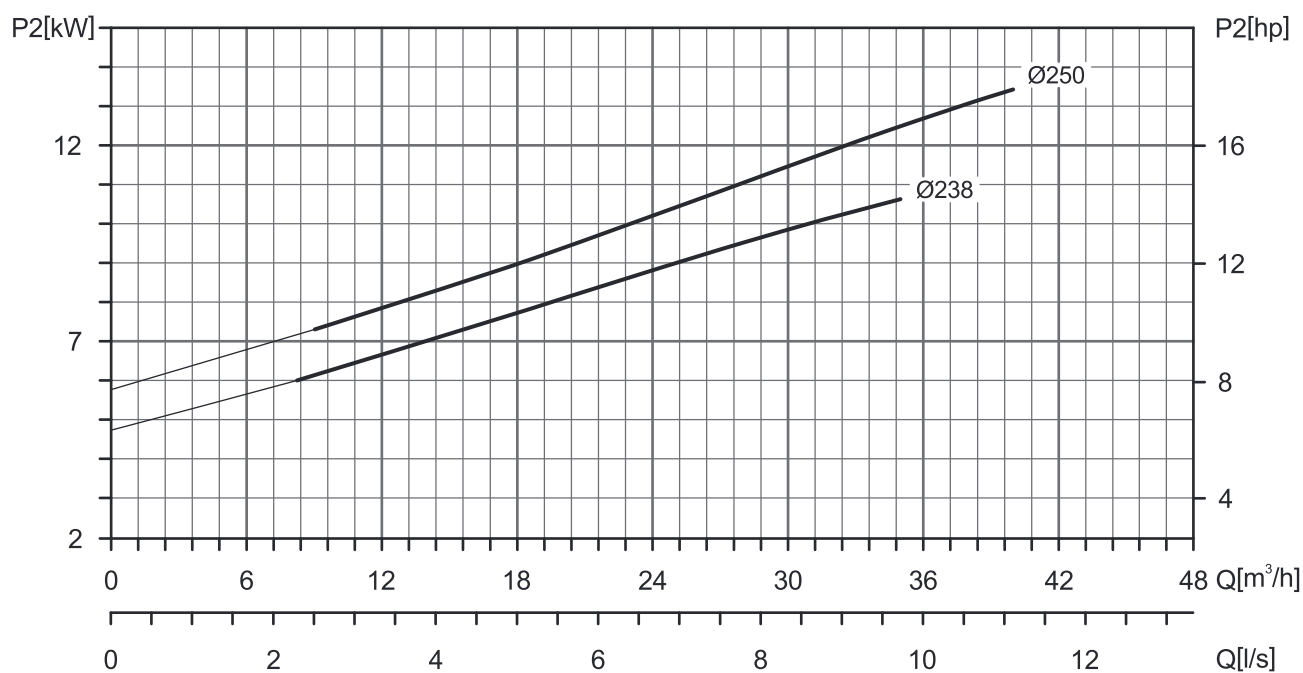
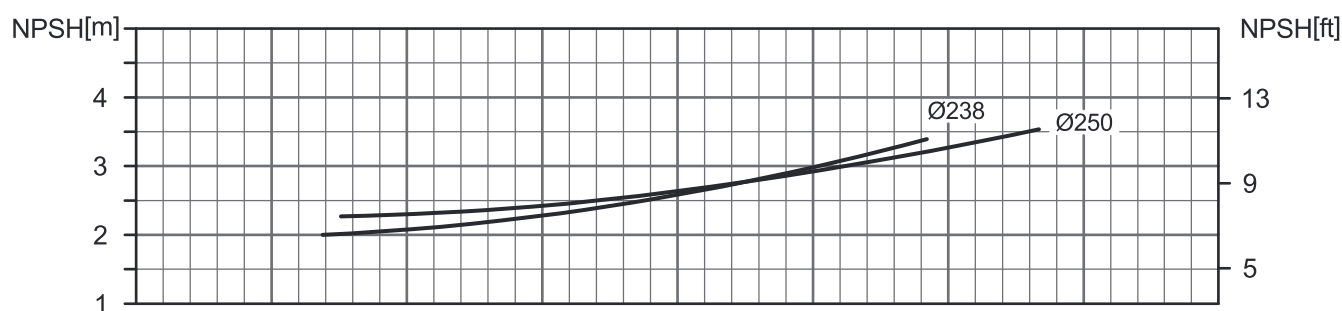
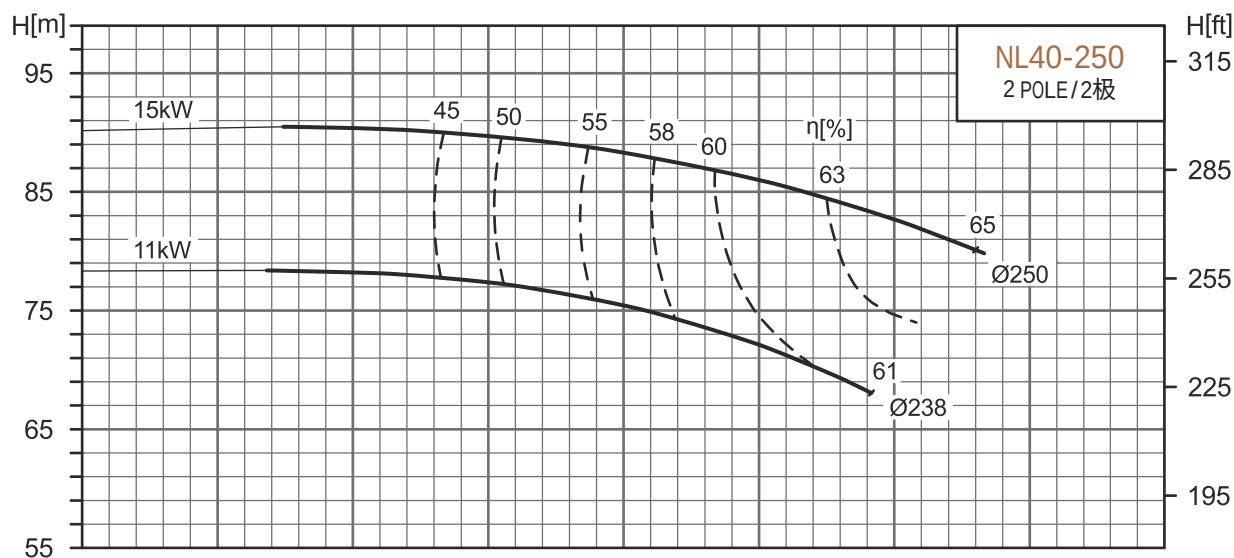
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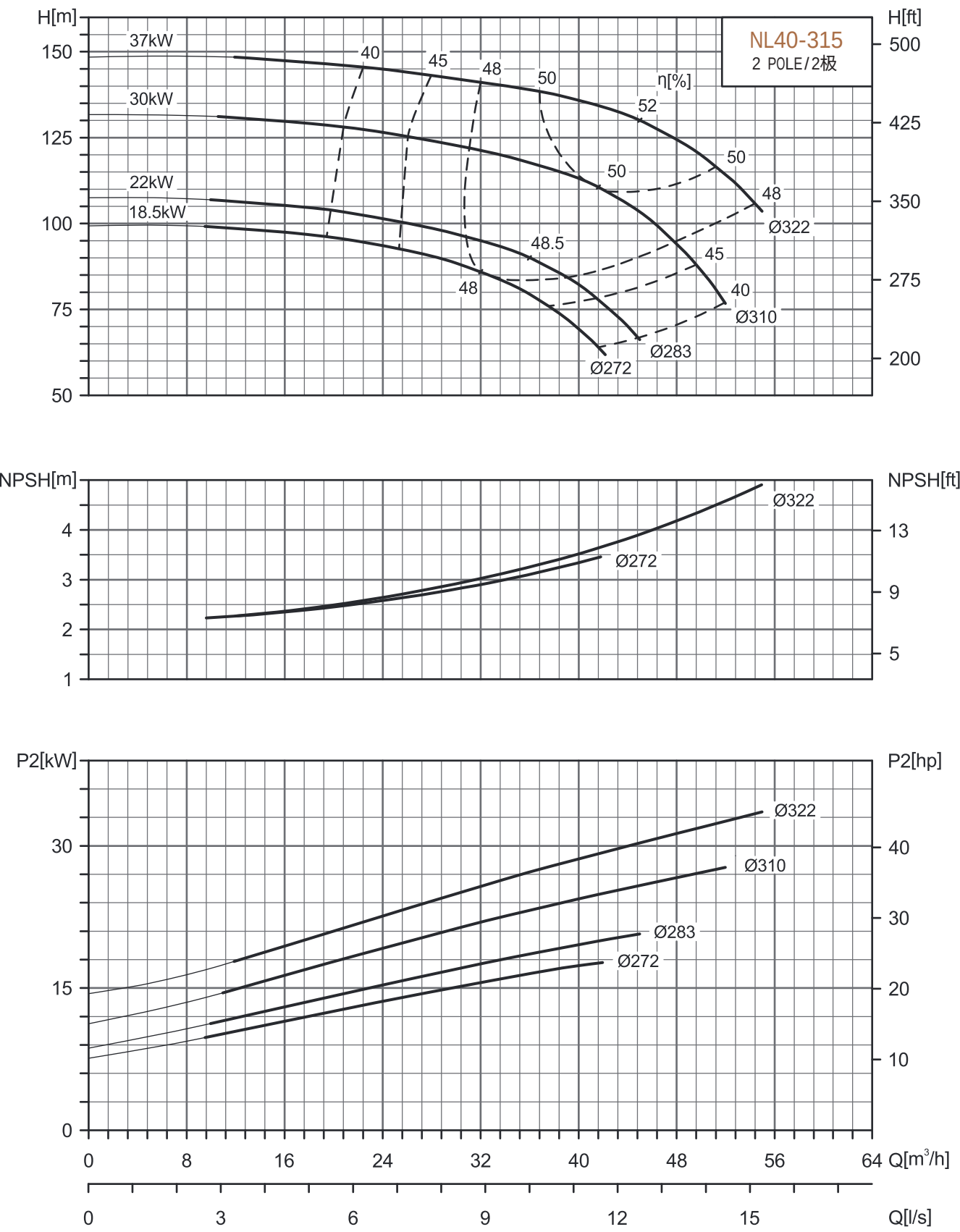
NL40-200



# NL40-250

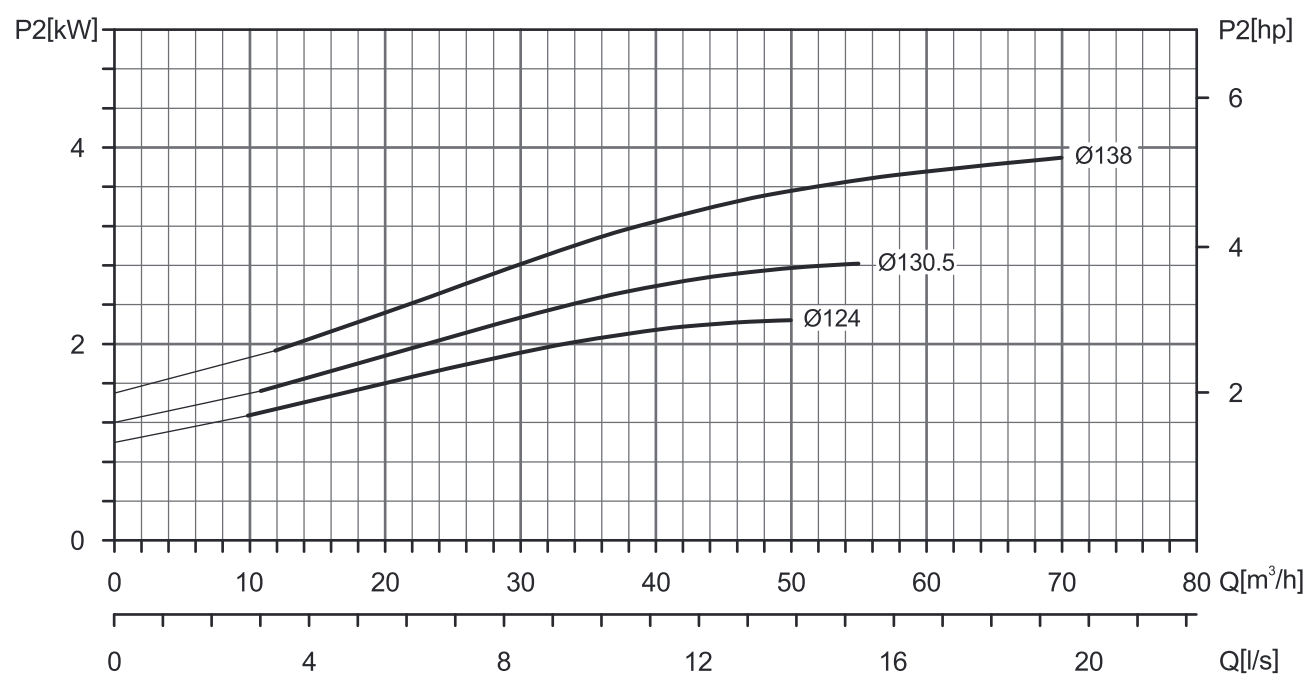
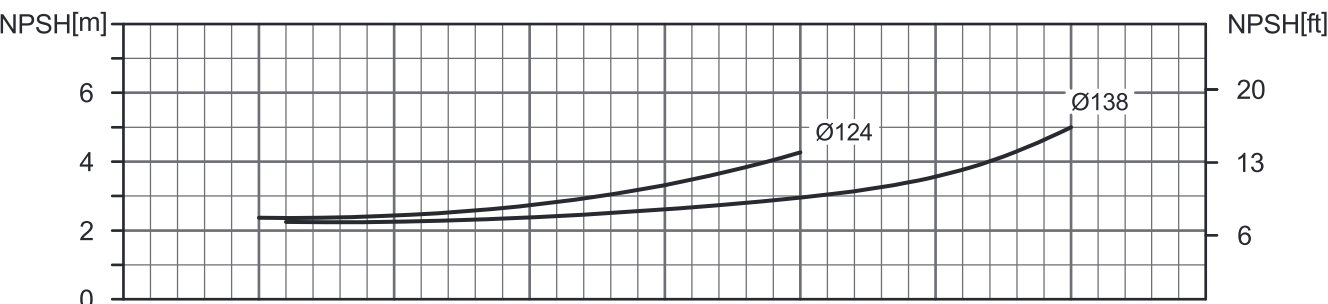
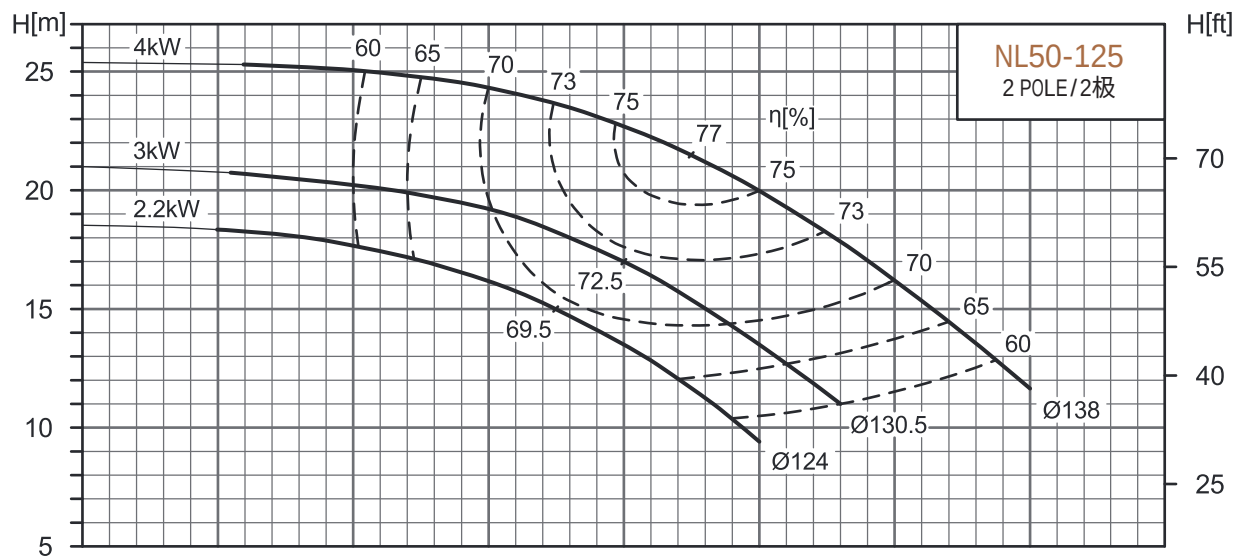


NL40-315

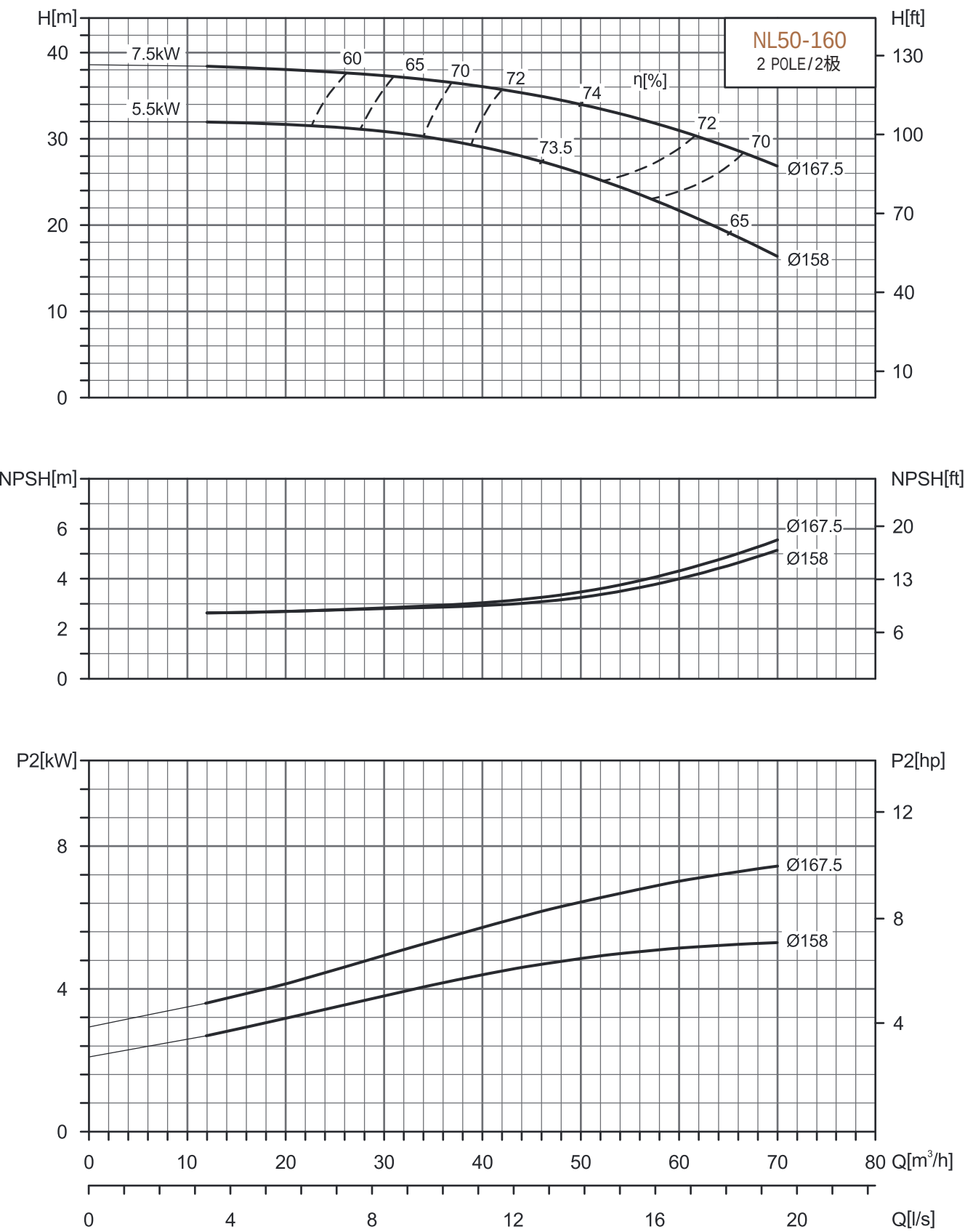




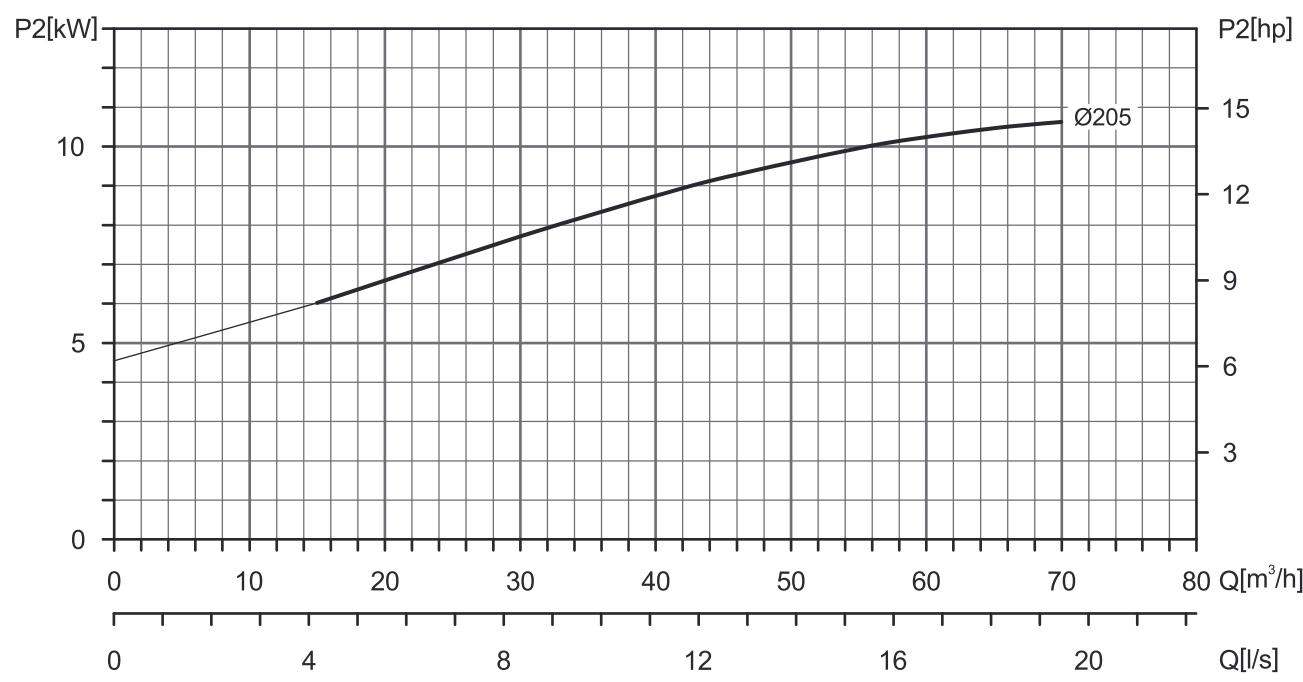
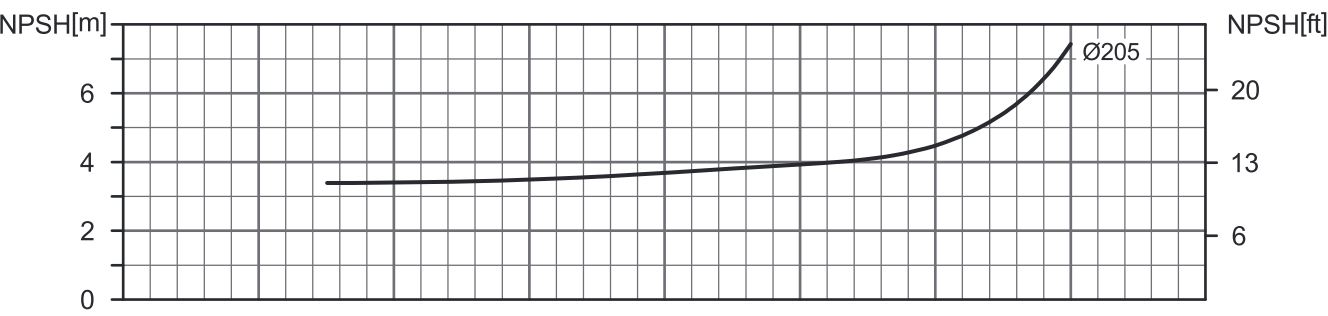
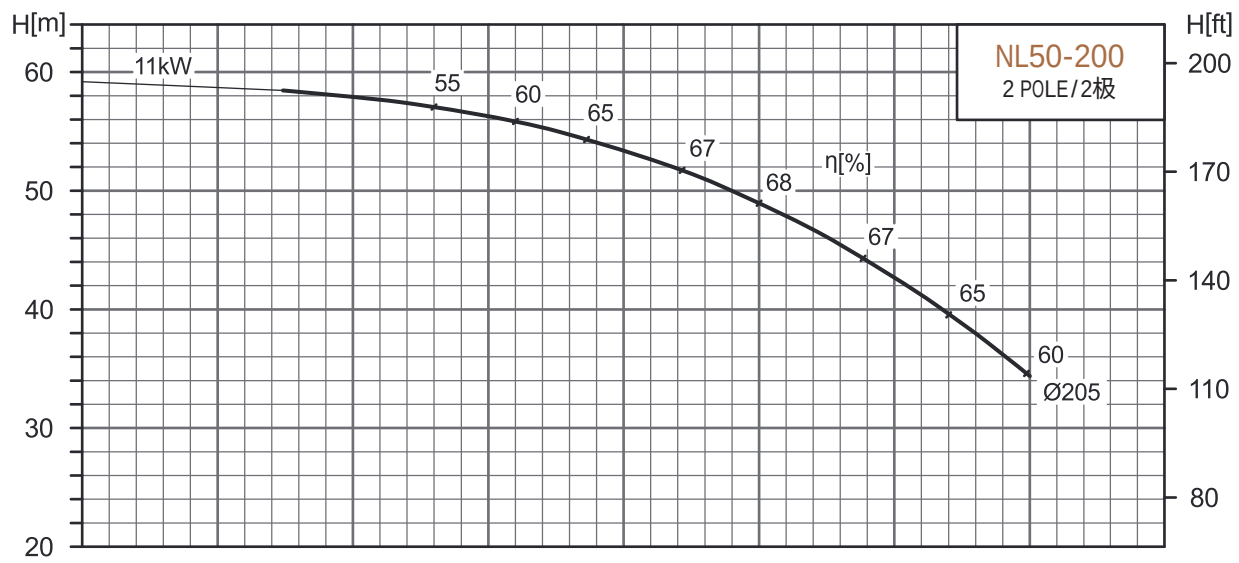
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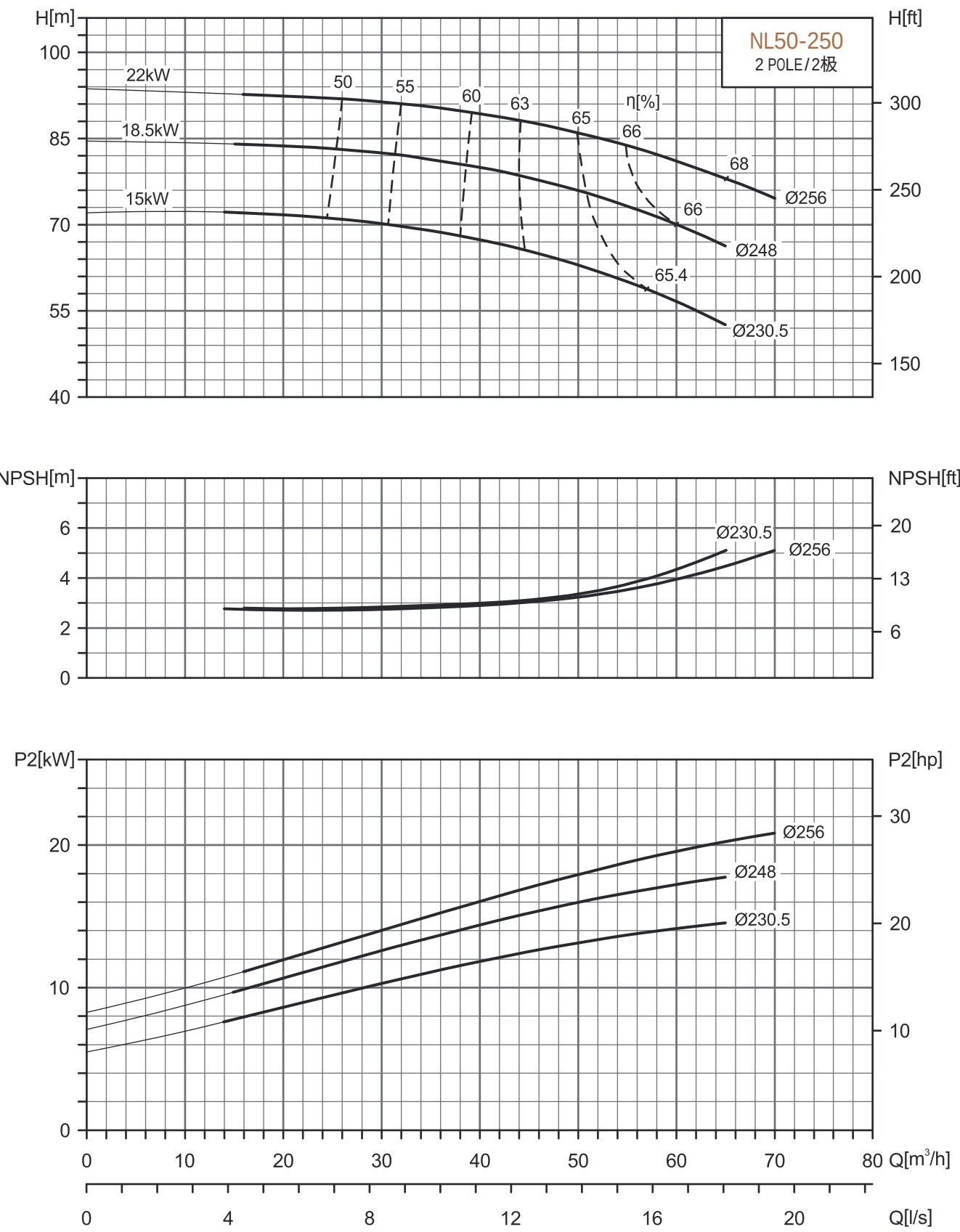
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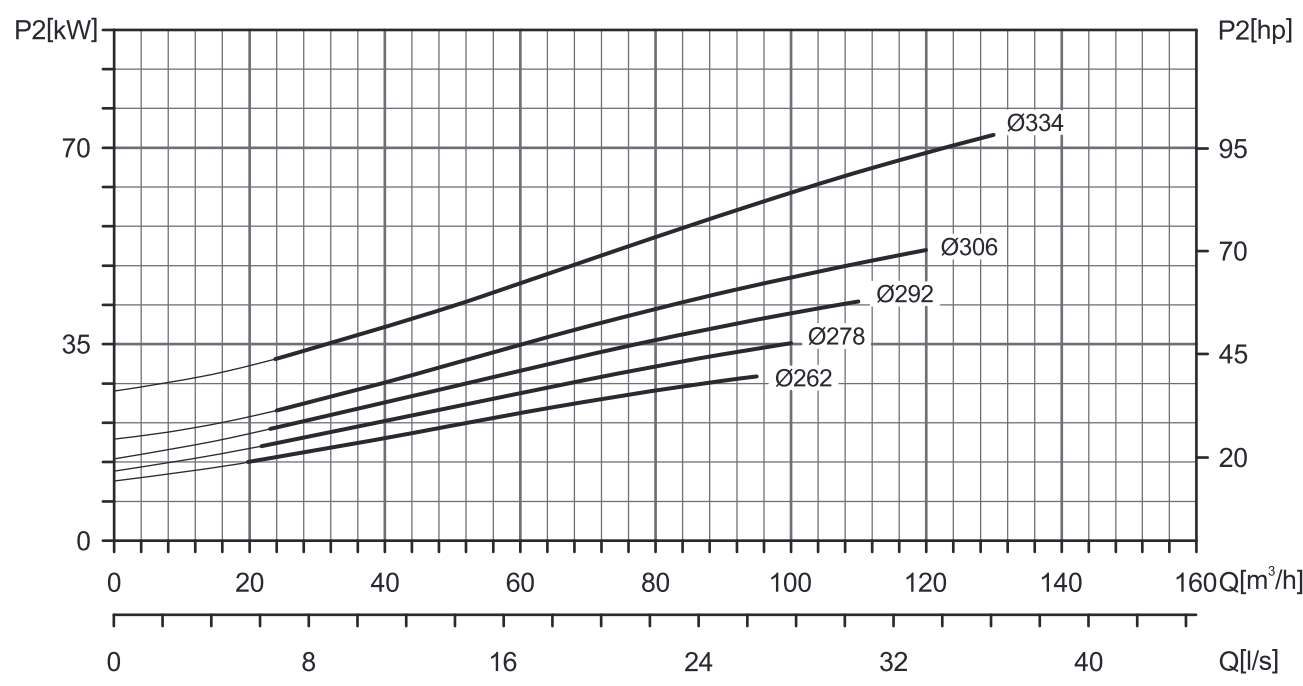
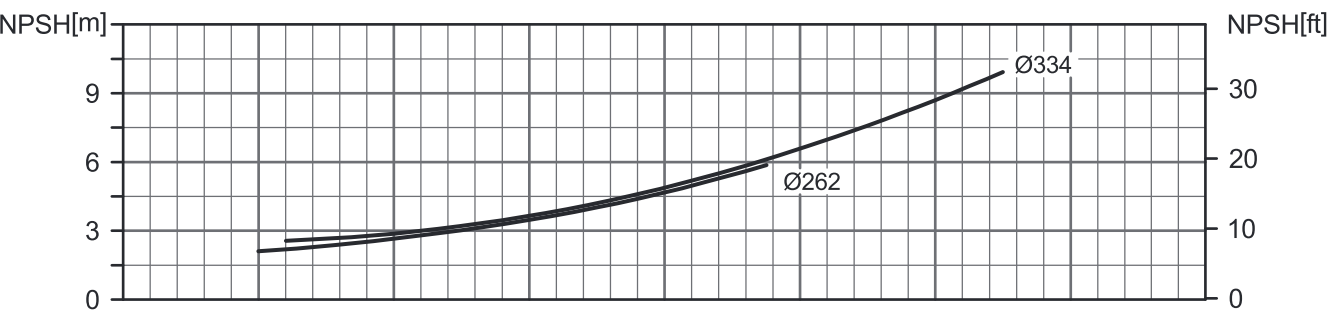
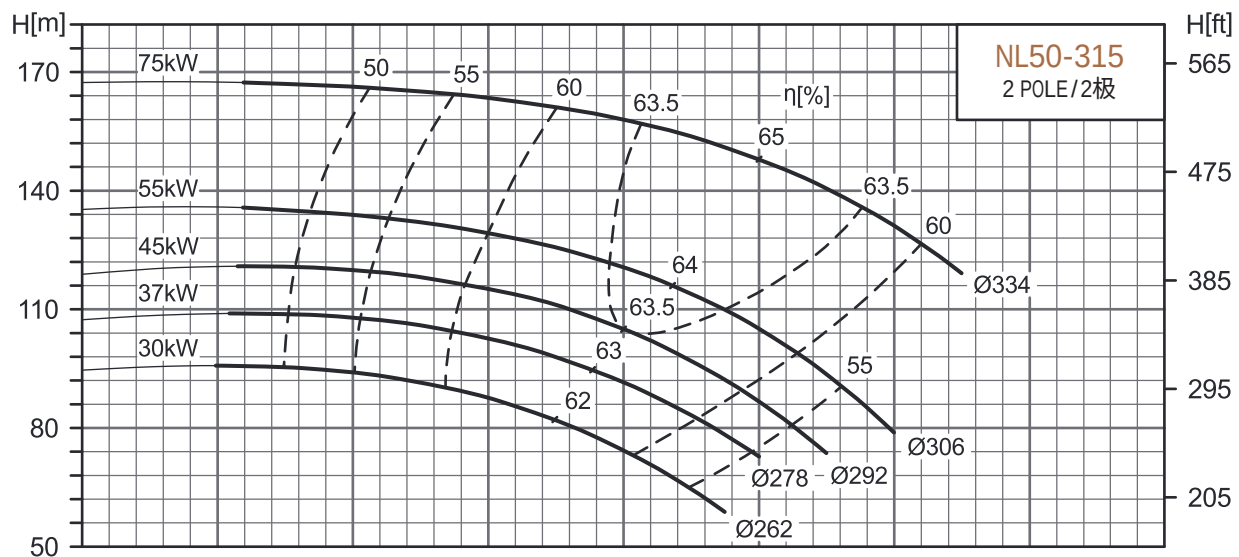
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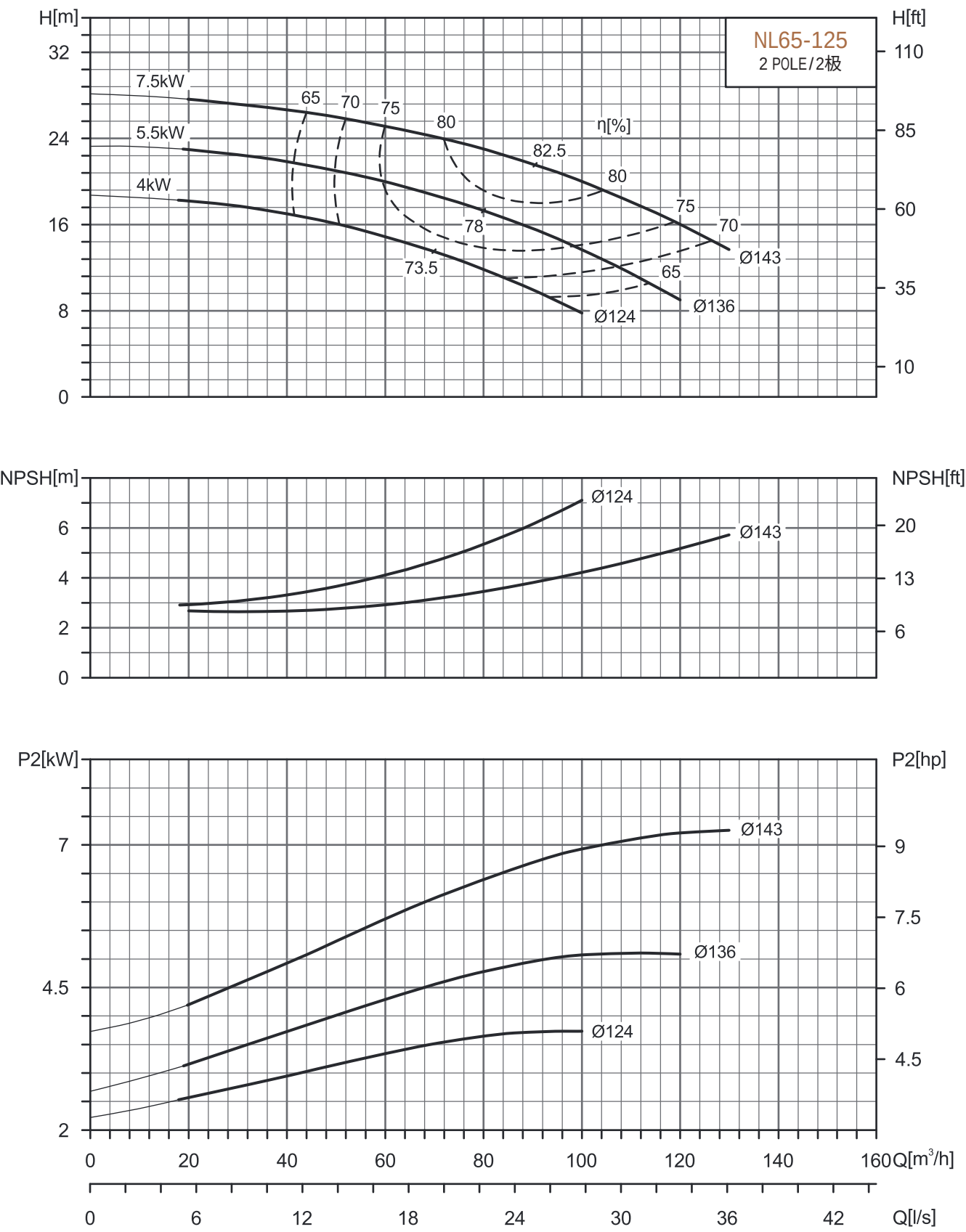
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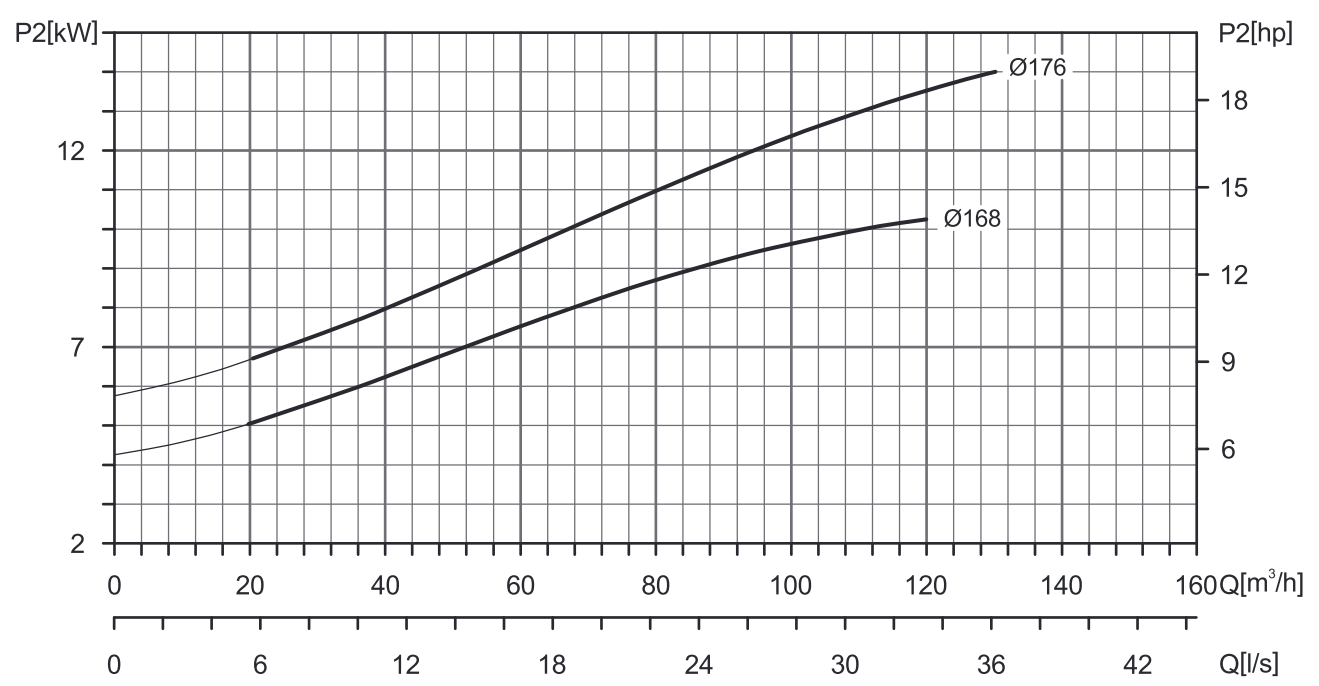
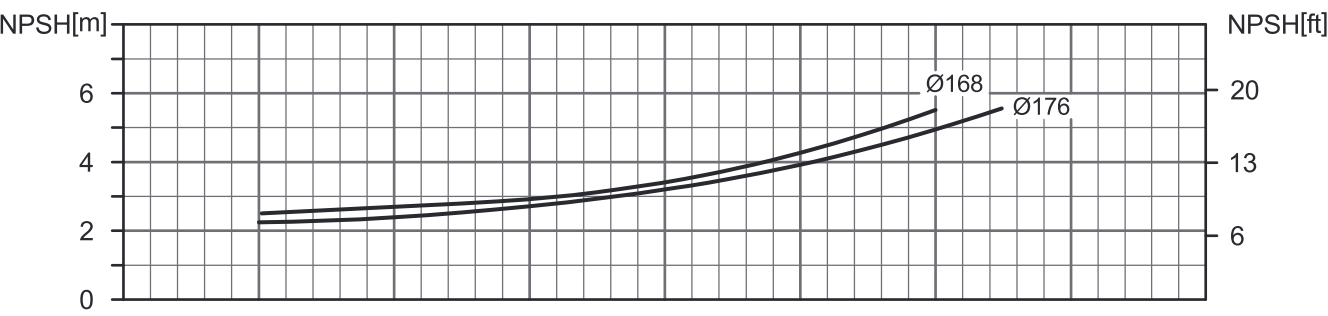
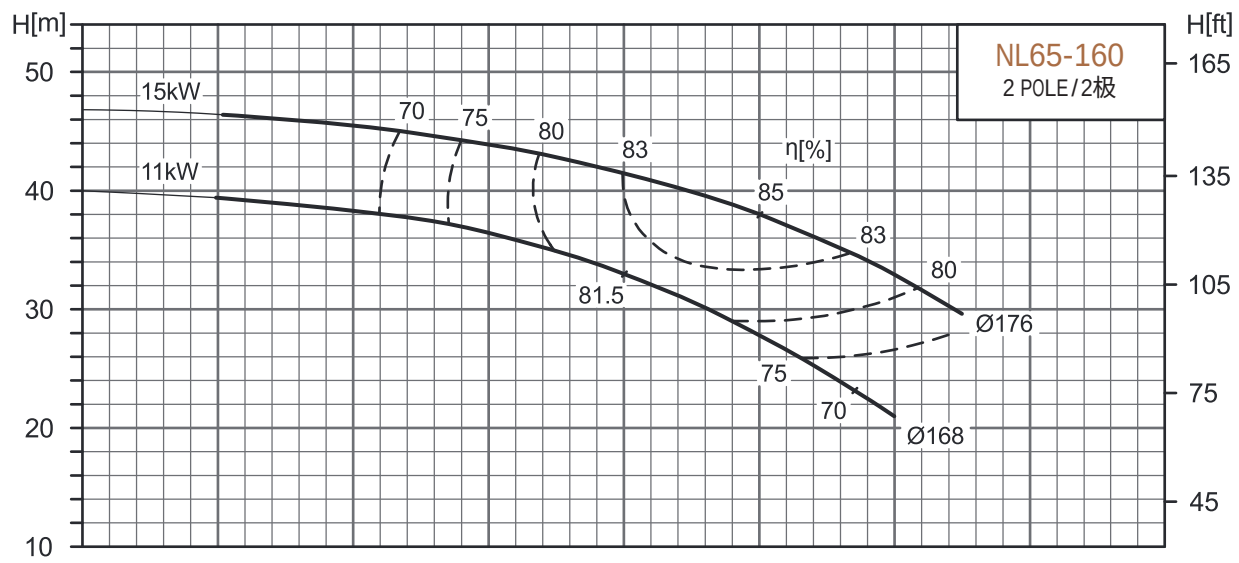
# NL50-315



NL65-125

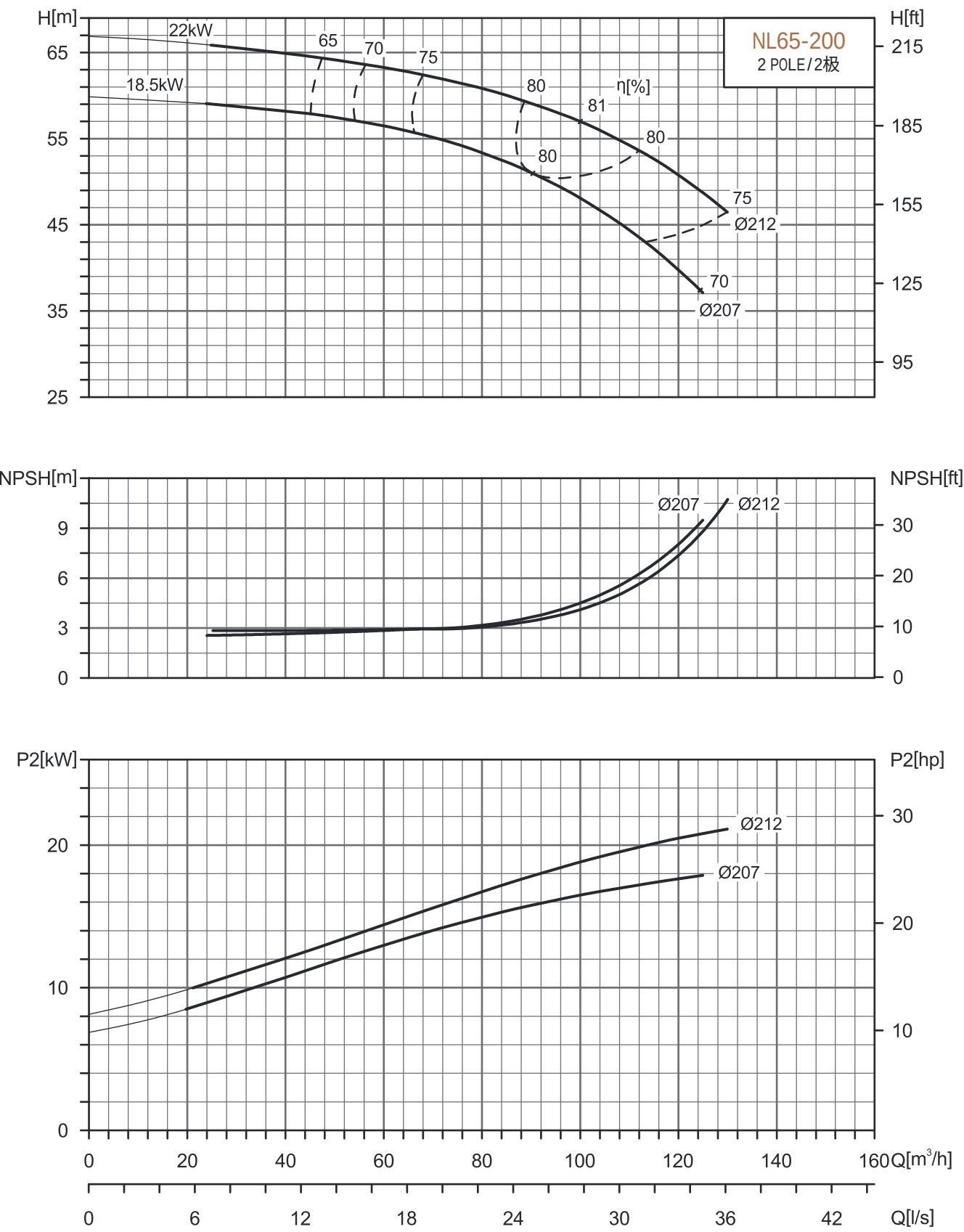


# NL65-160

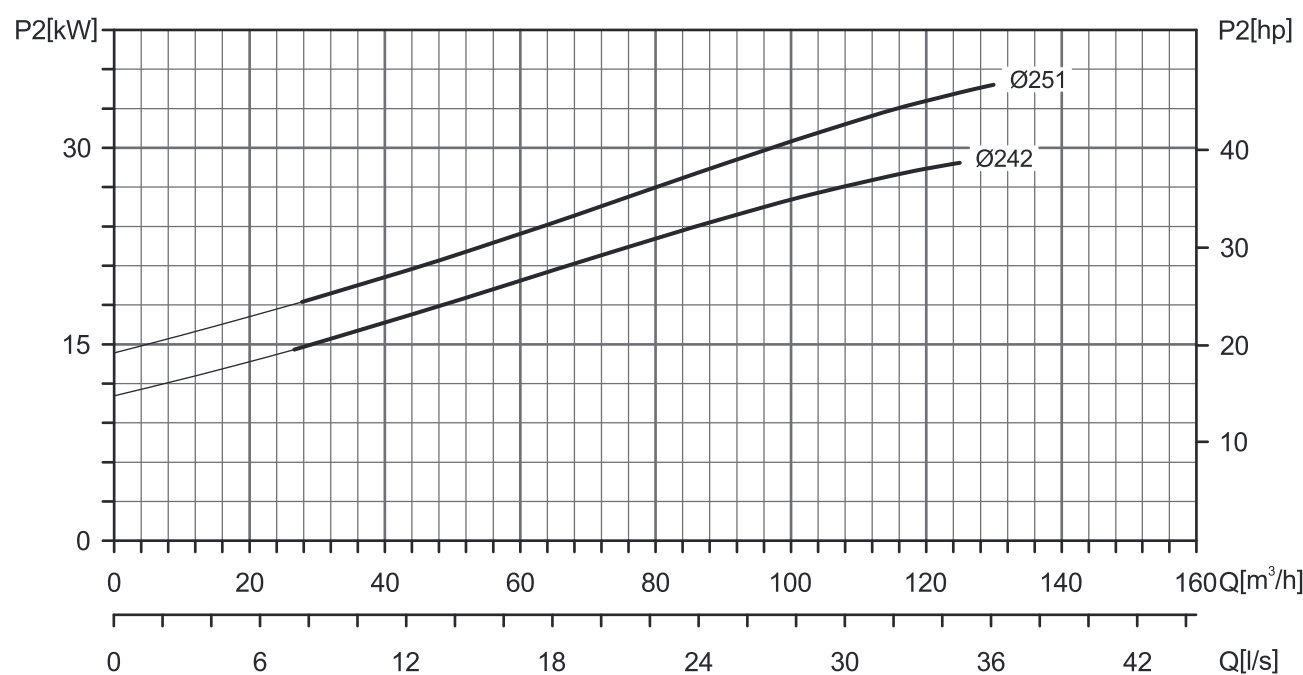
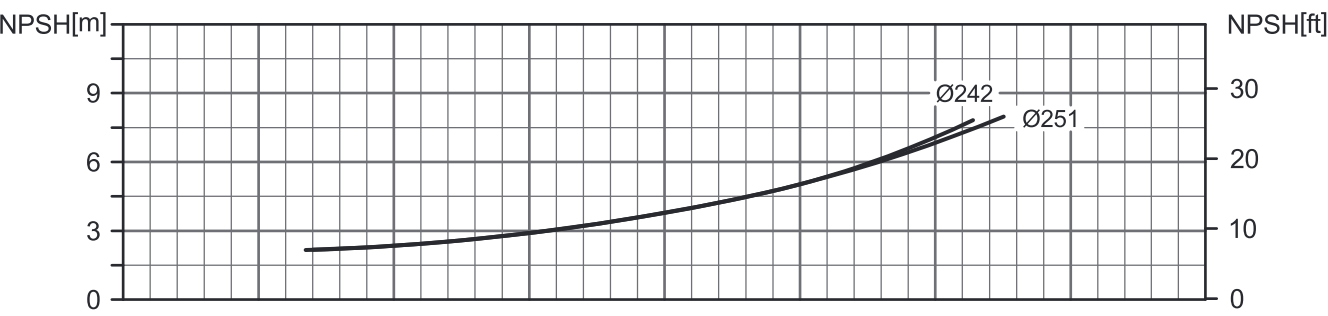
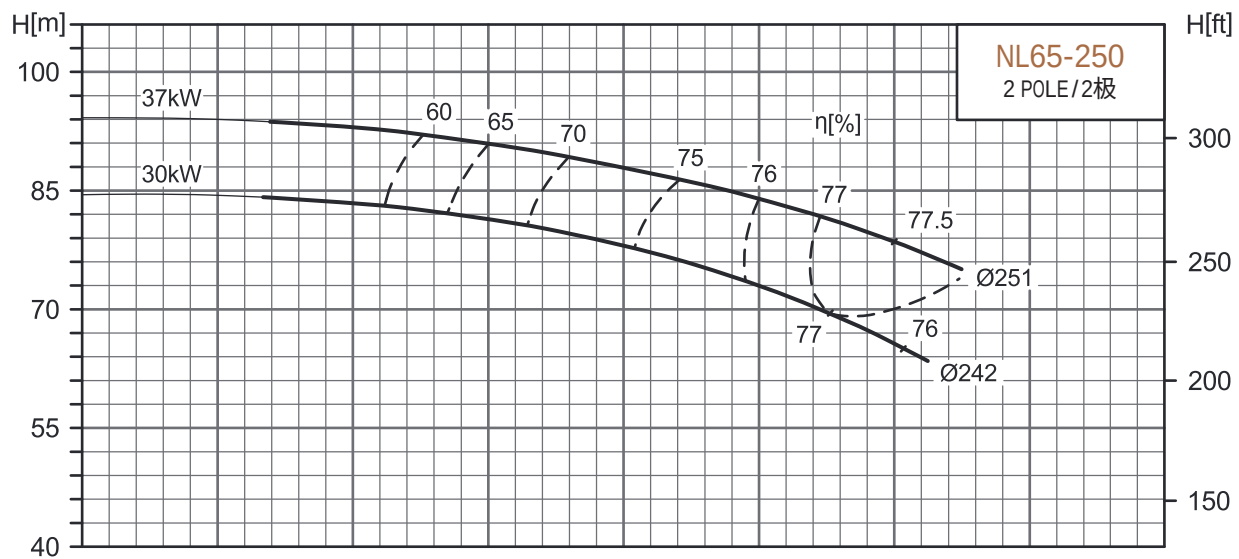




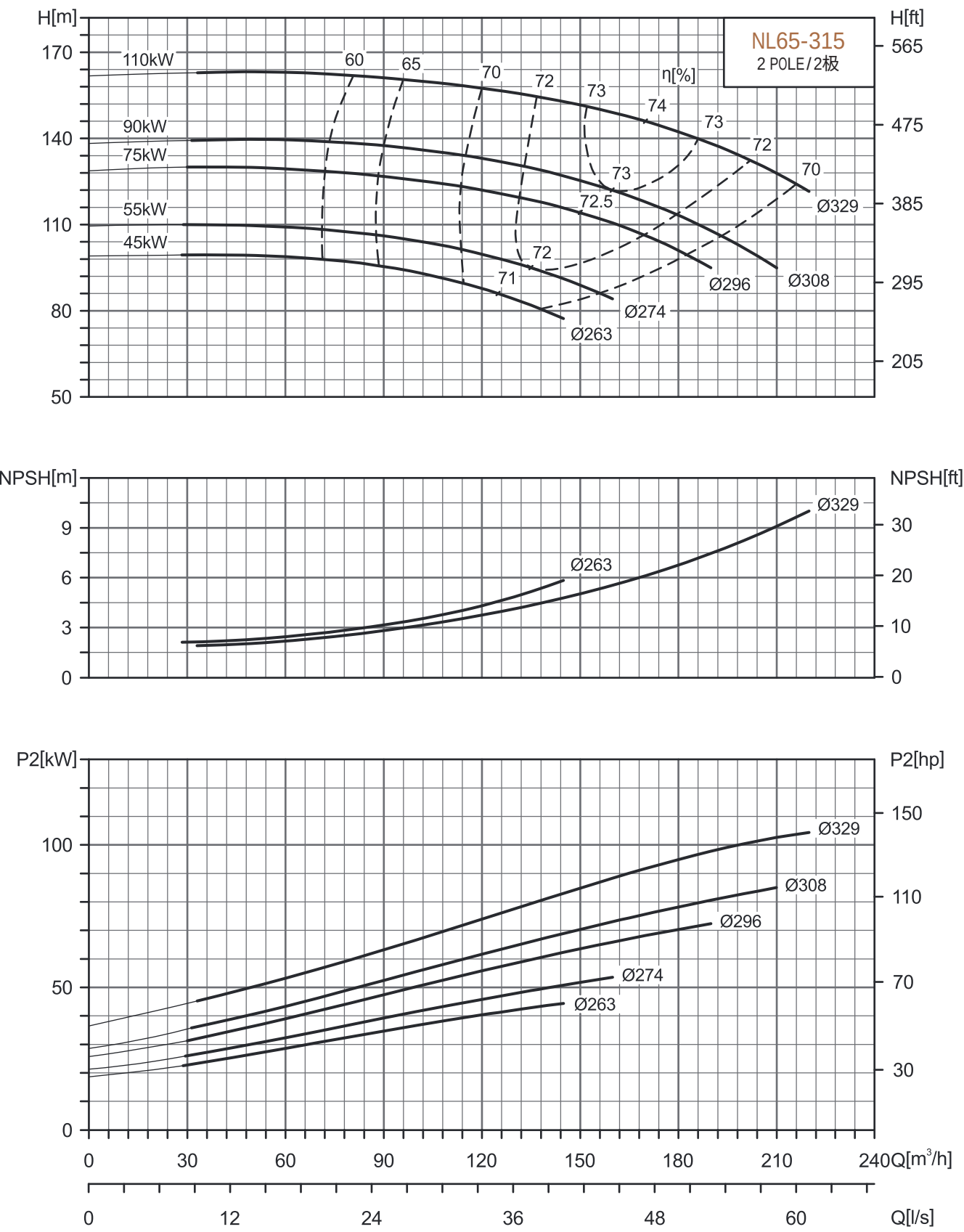
NL65-200



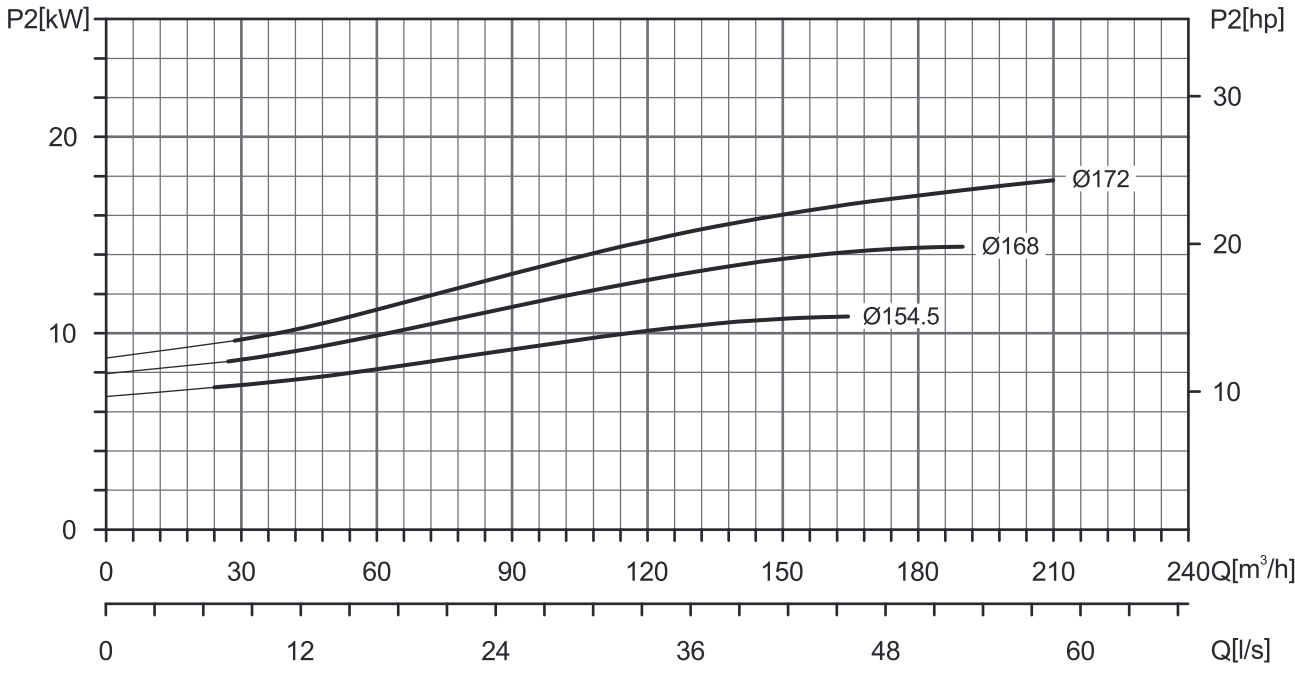
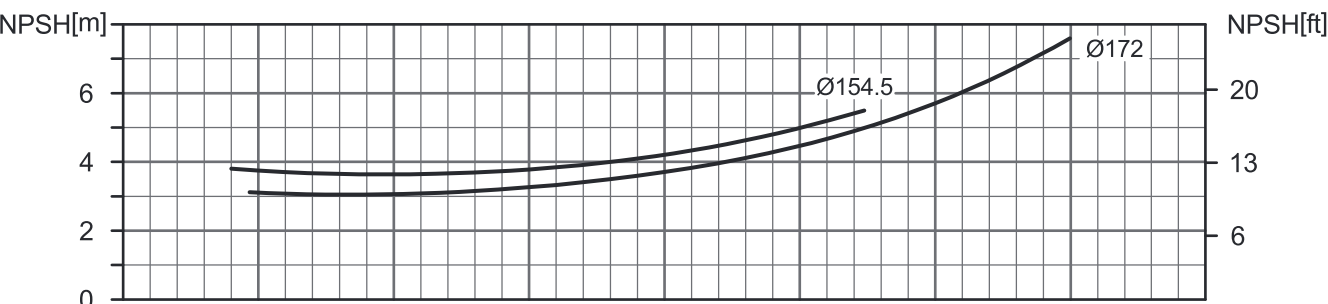
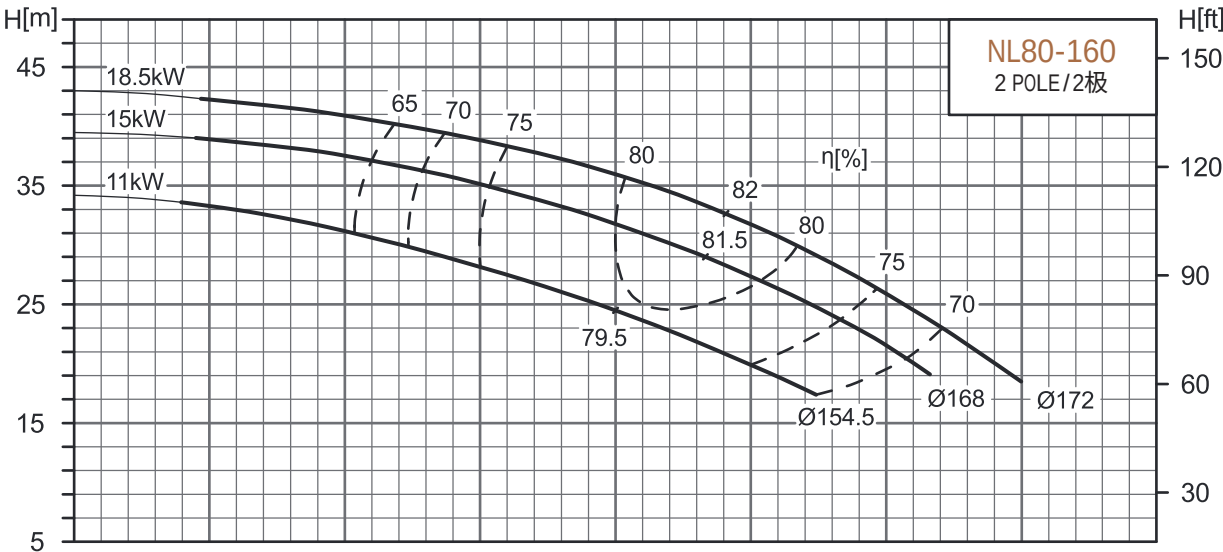
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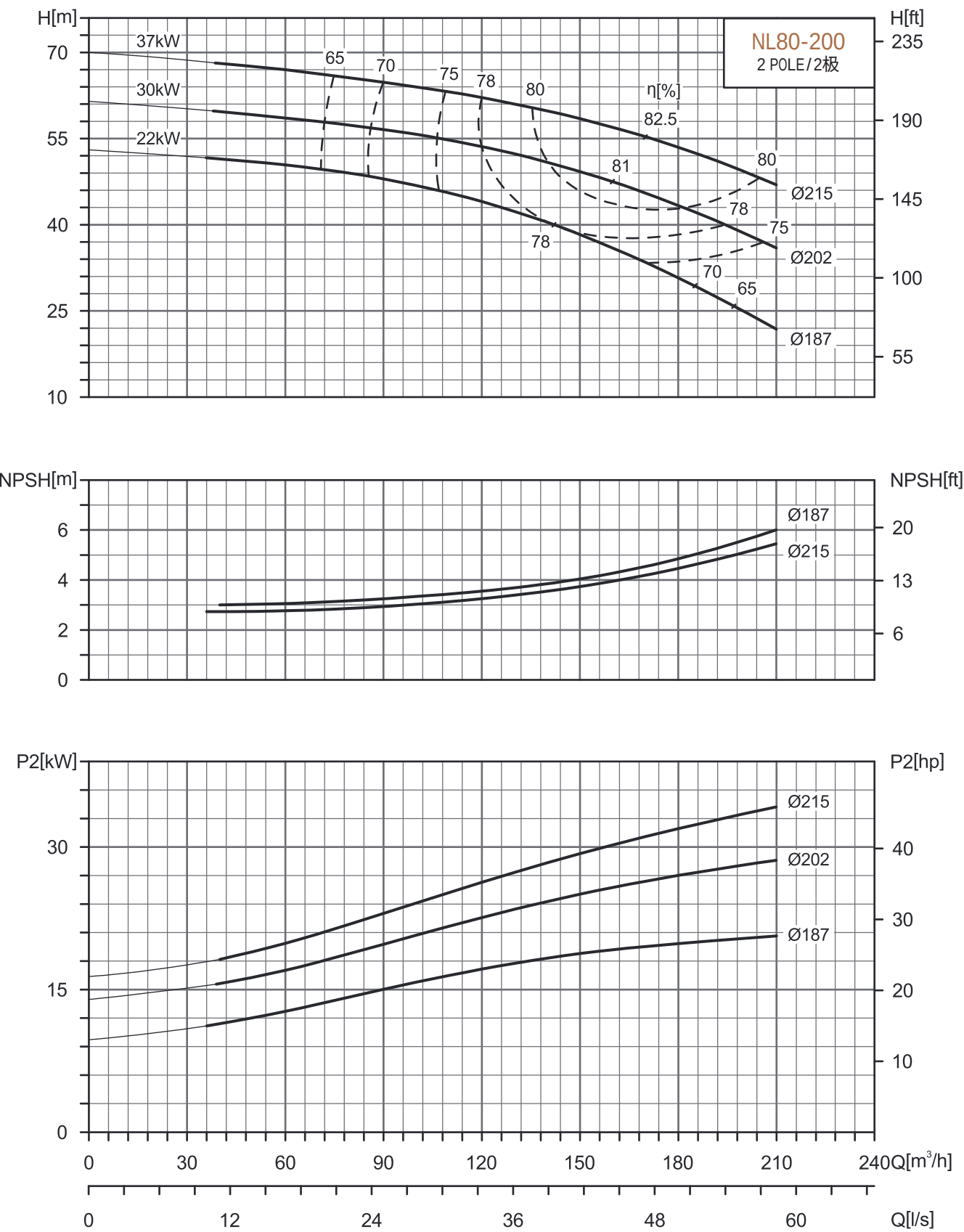
NL65-315



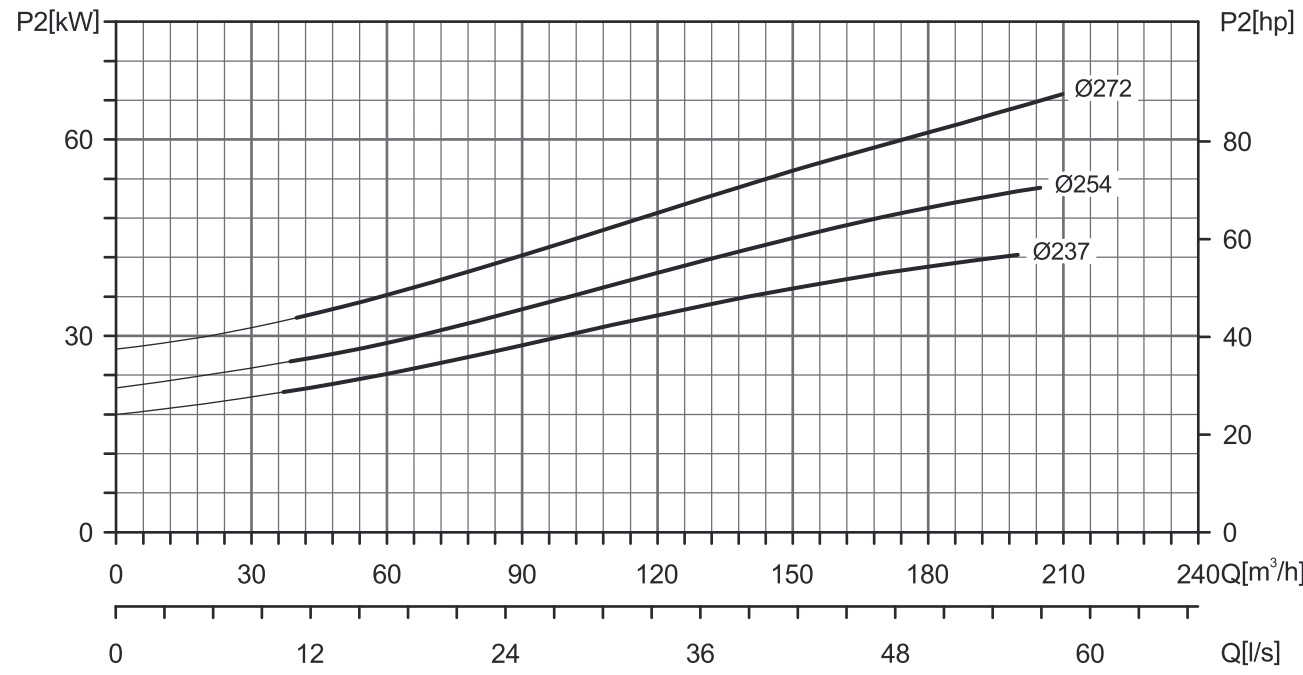
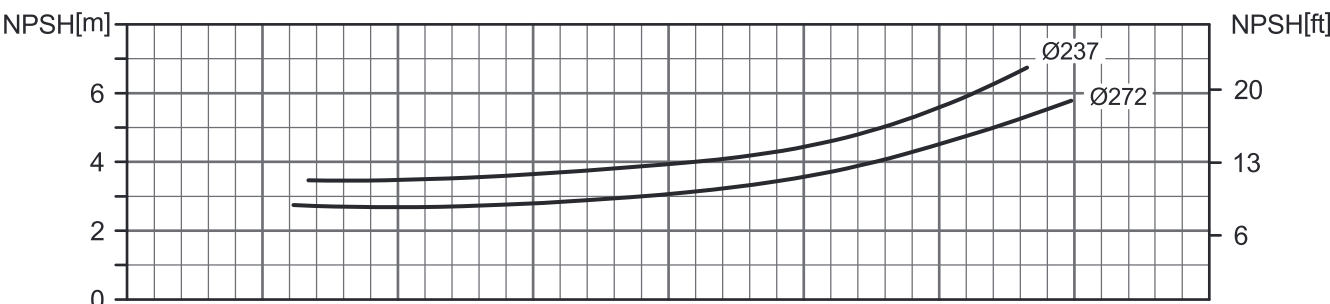
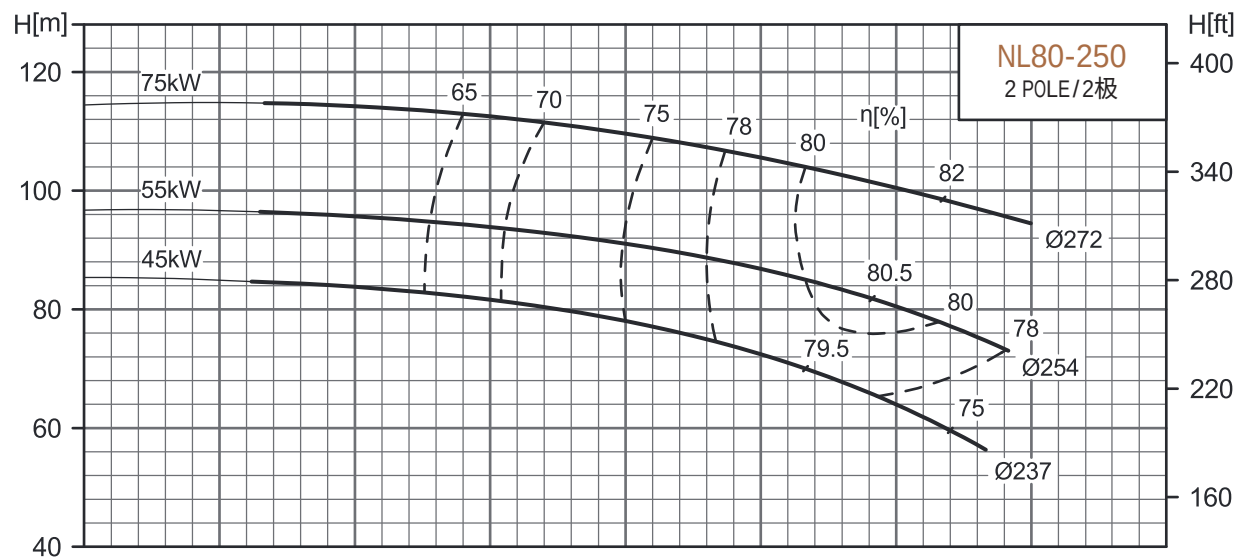
NL80-160



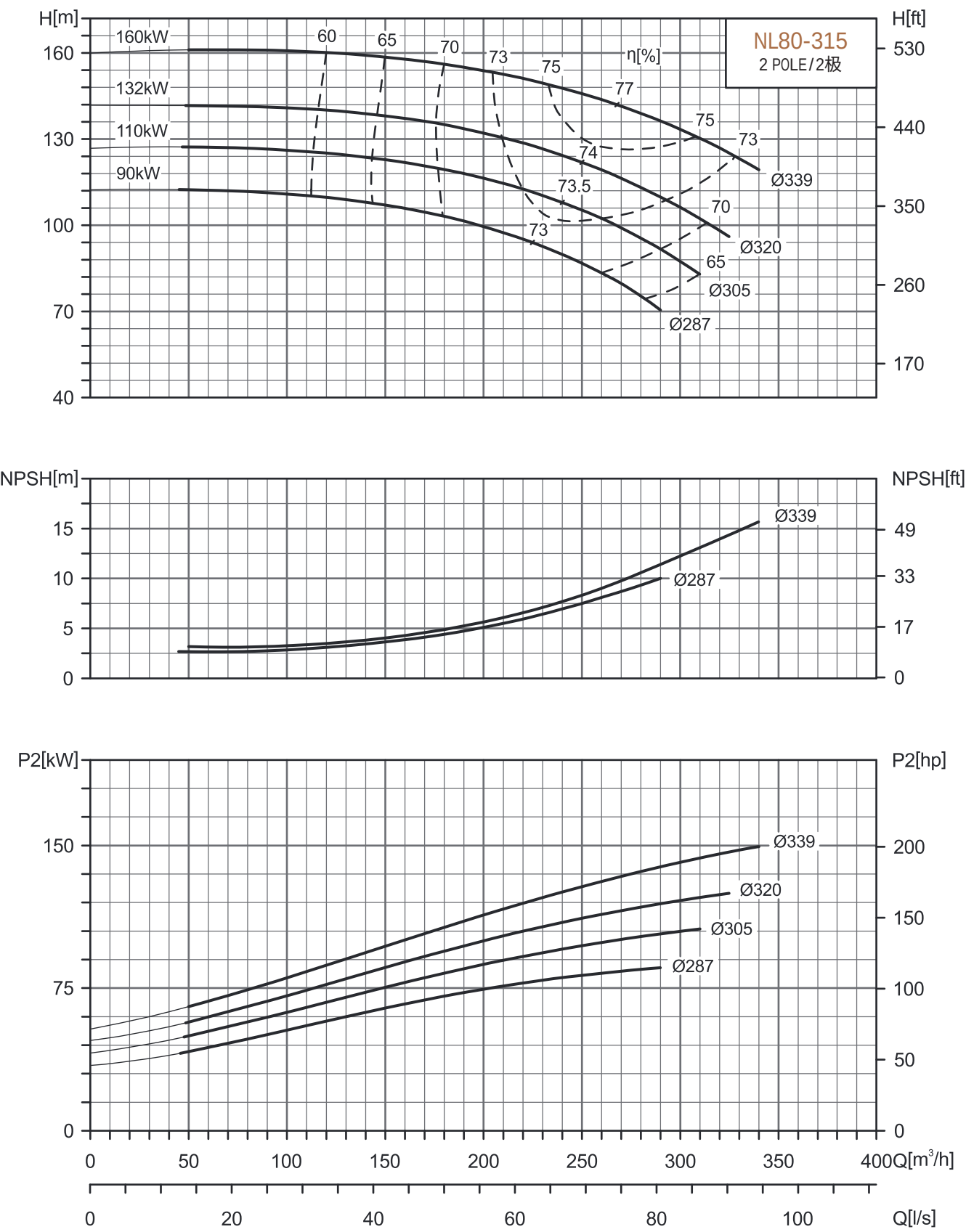
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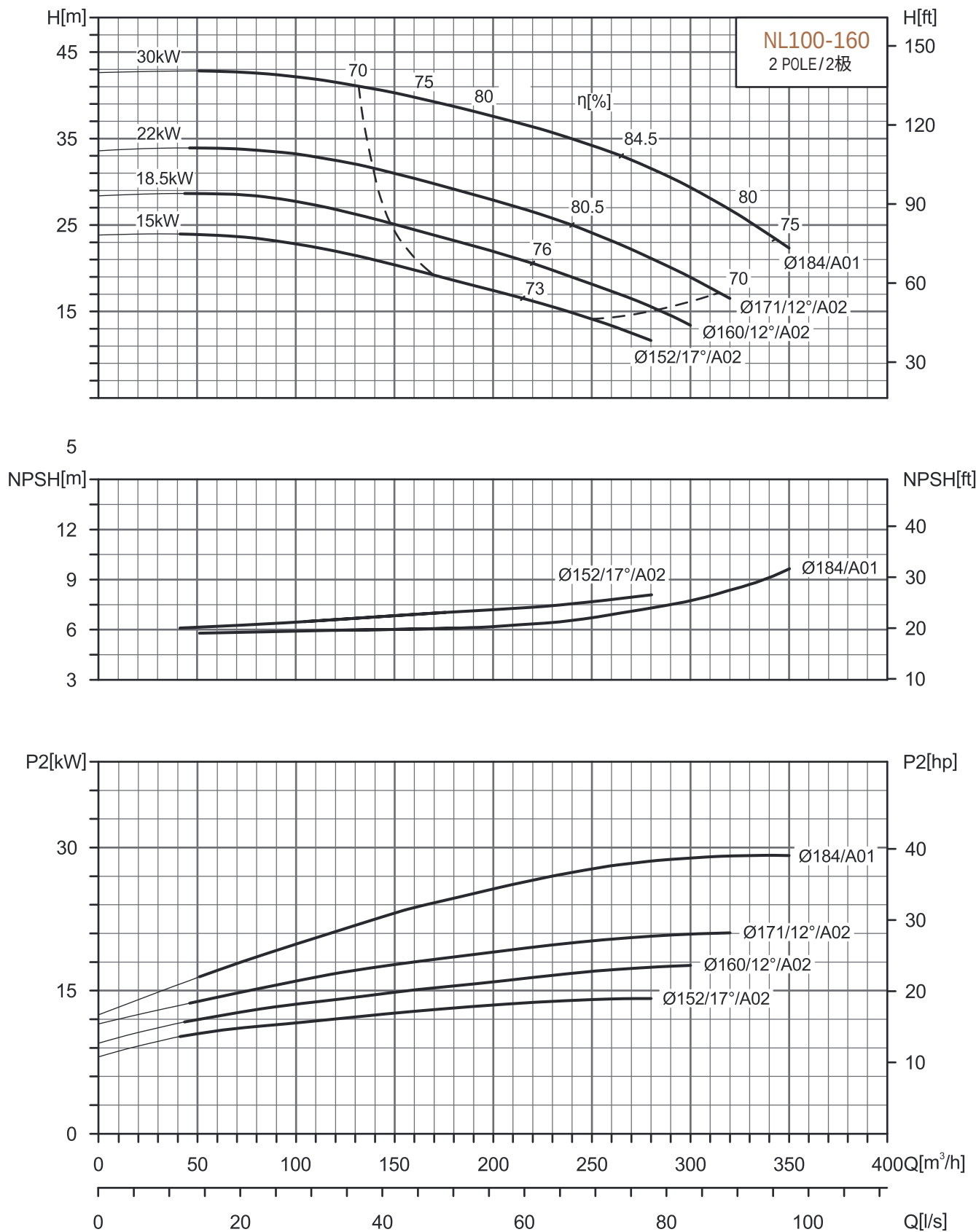
# NL80-250



NL80-315

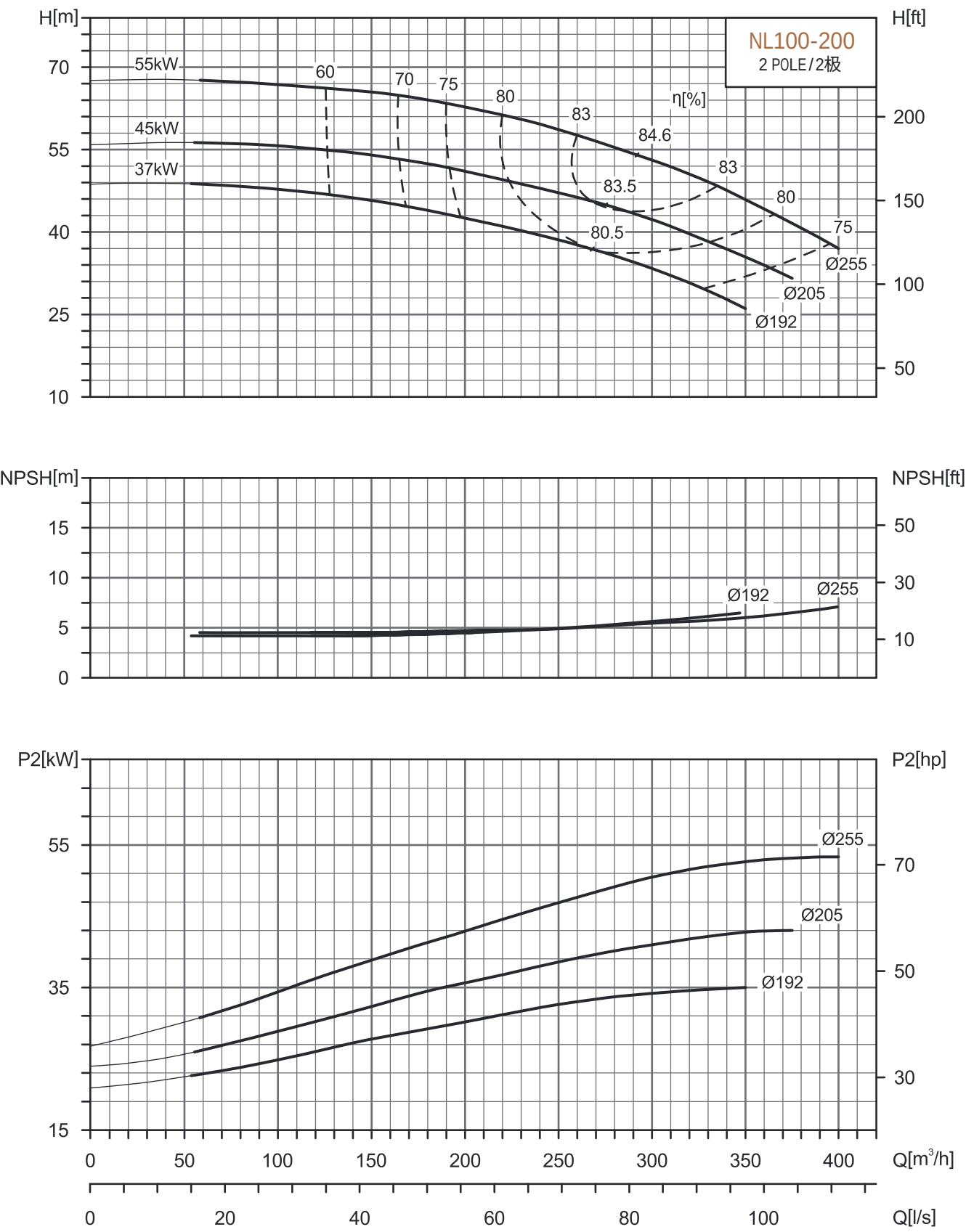


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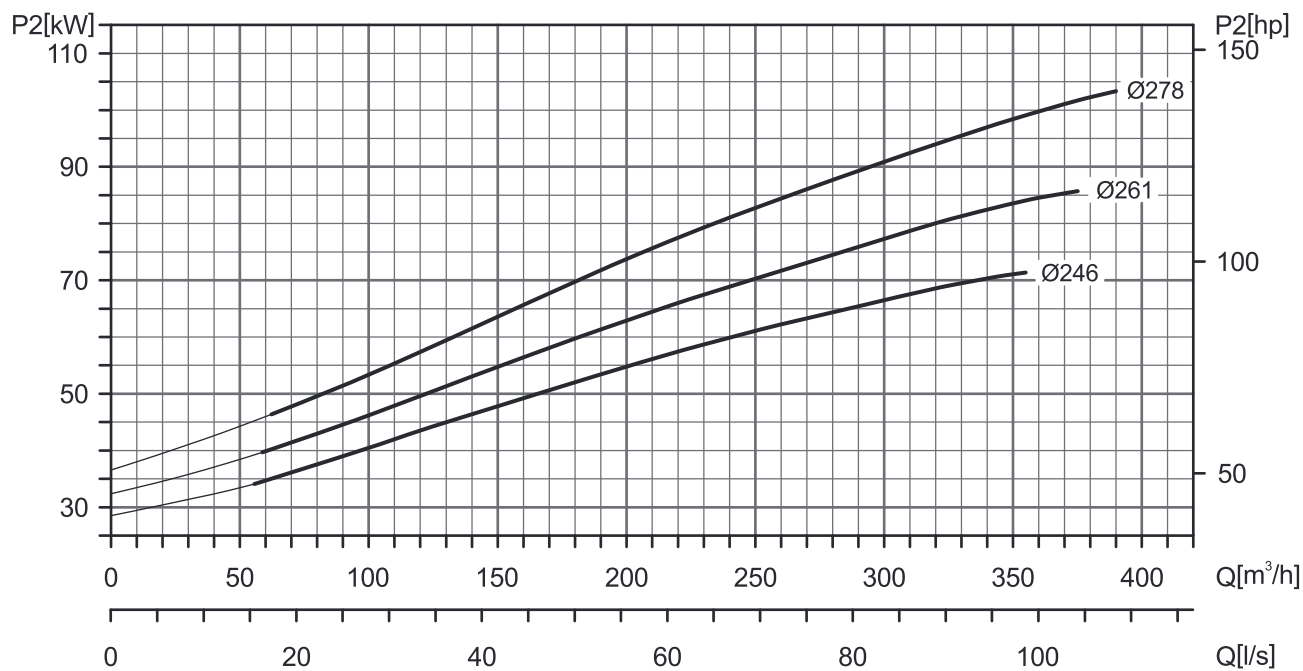
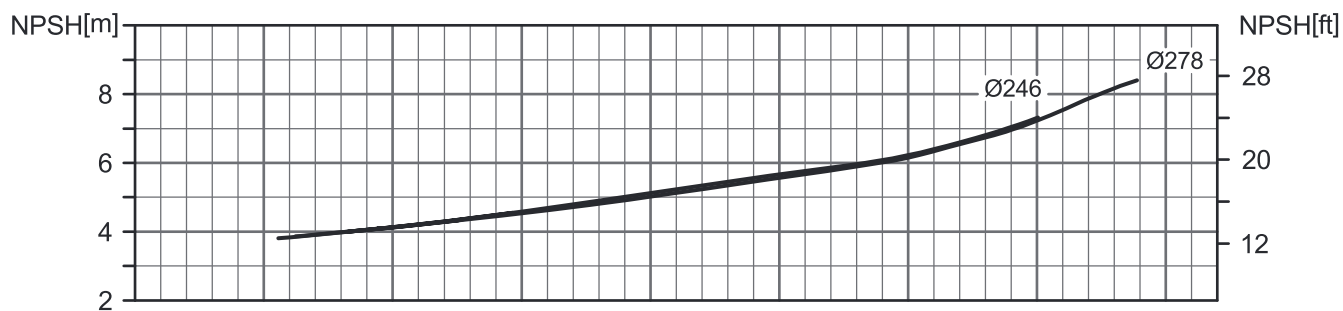
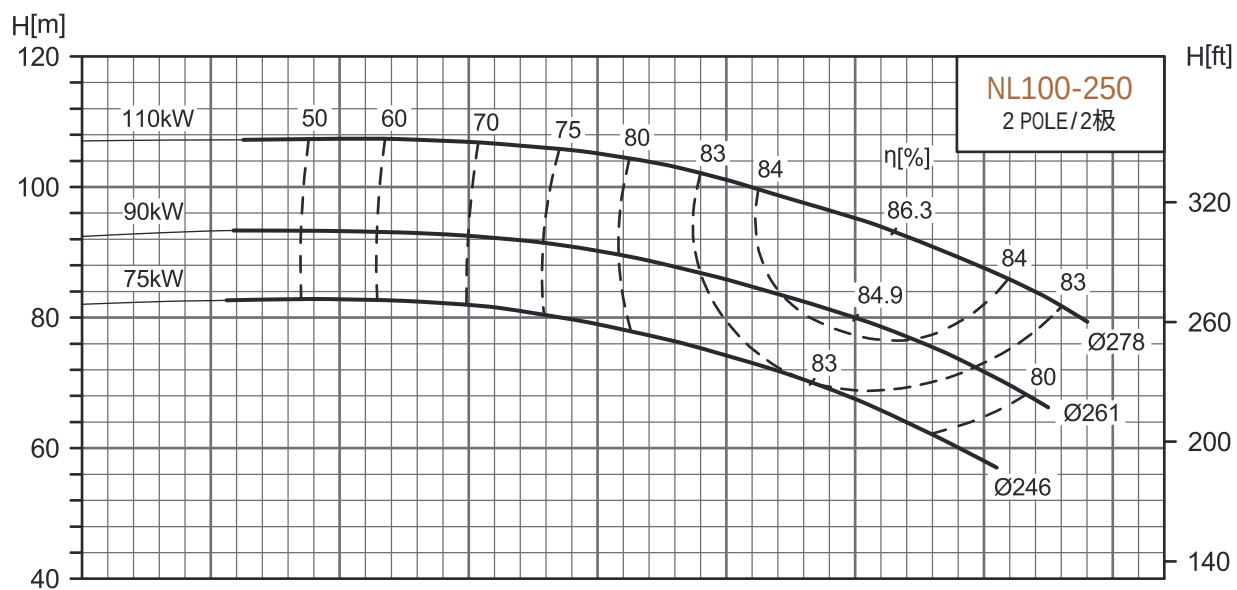




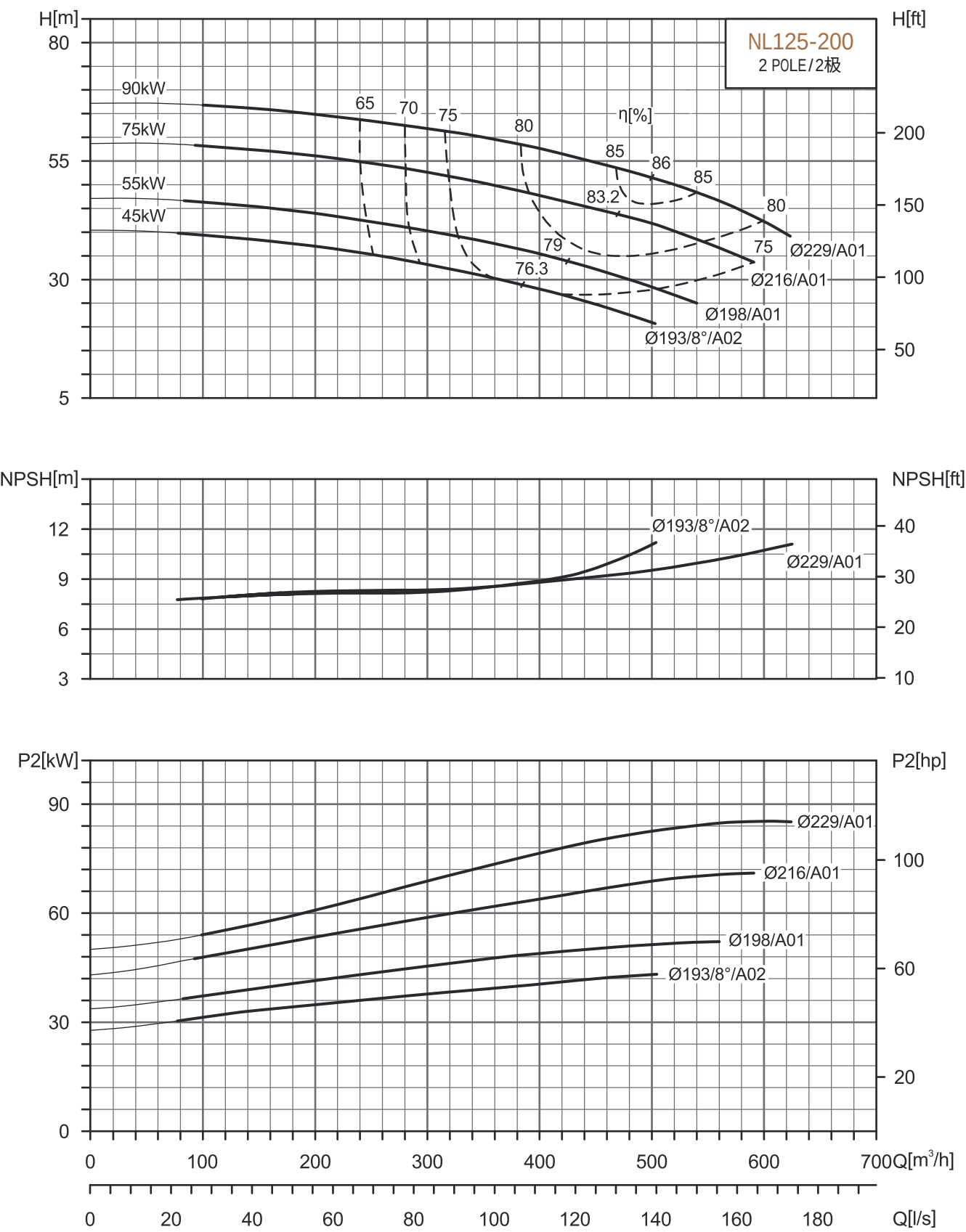
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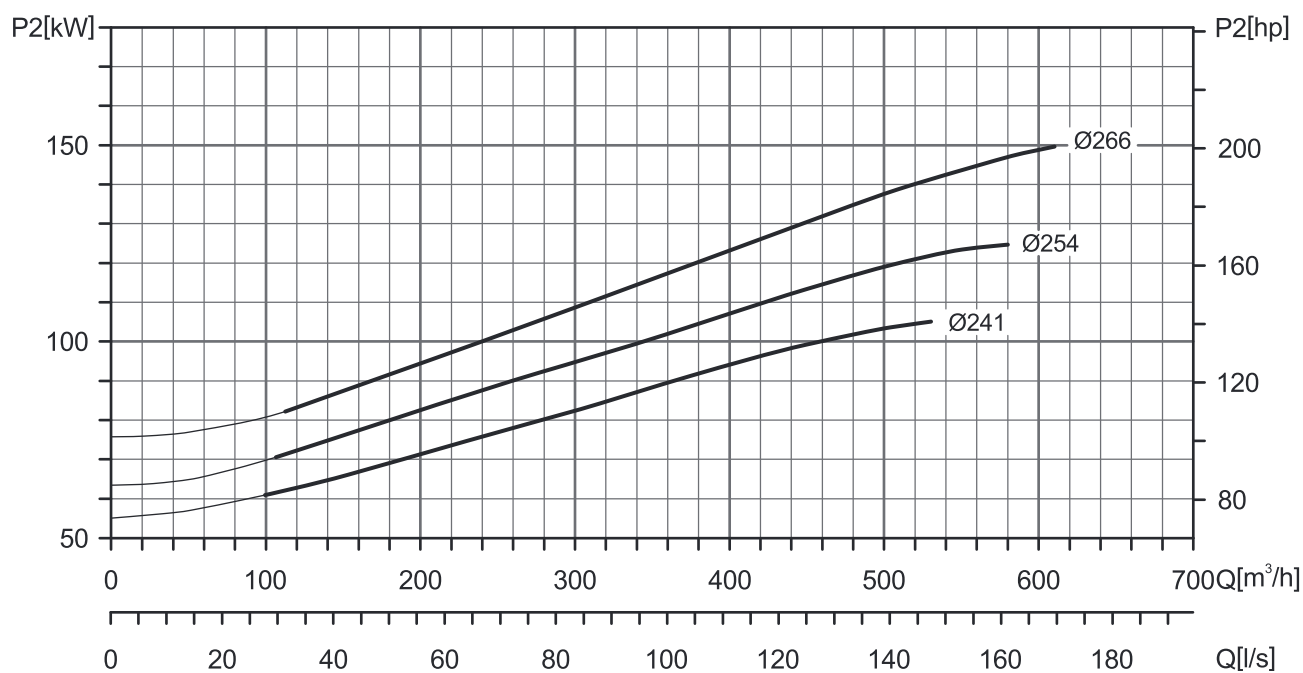
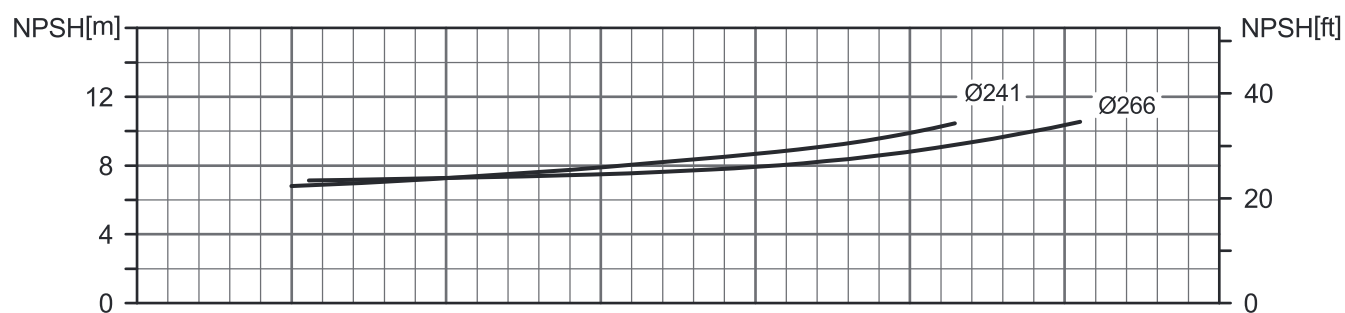
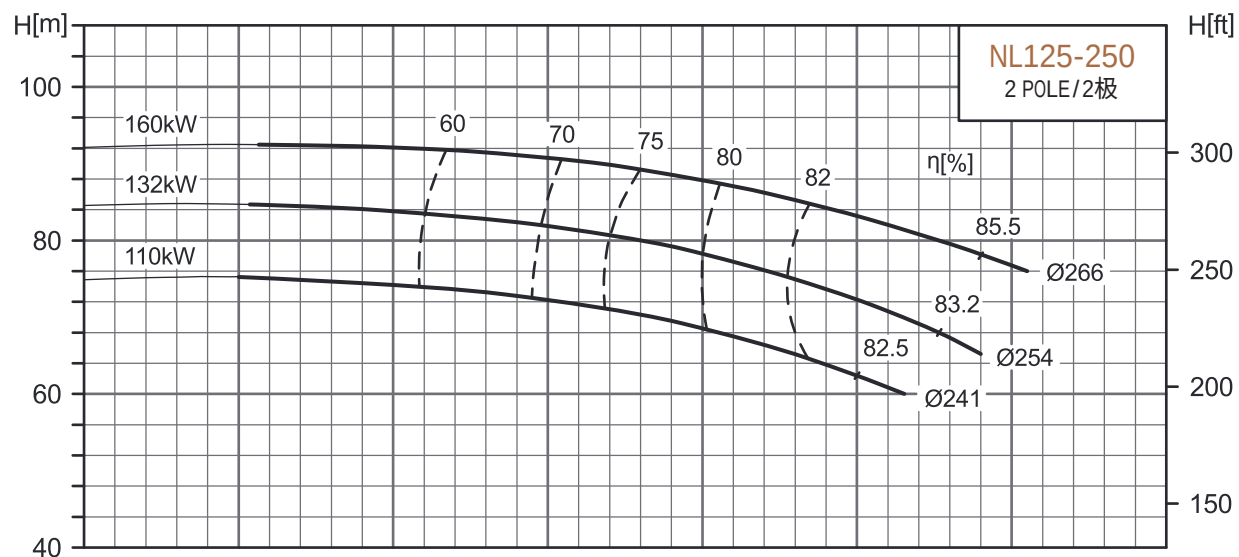
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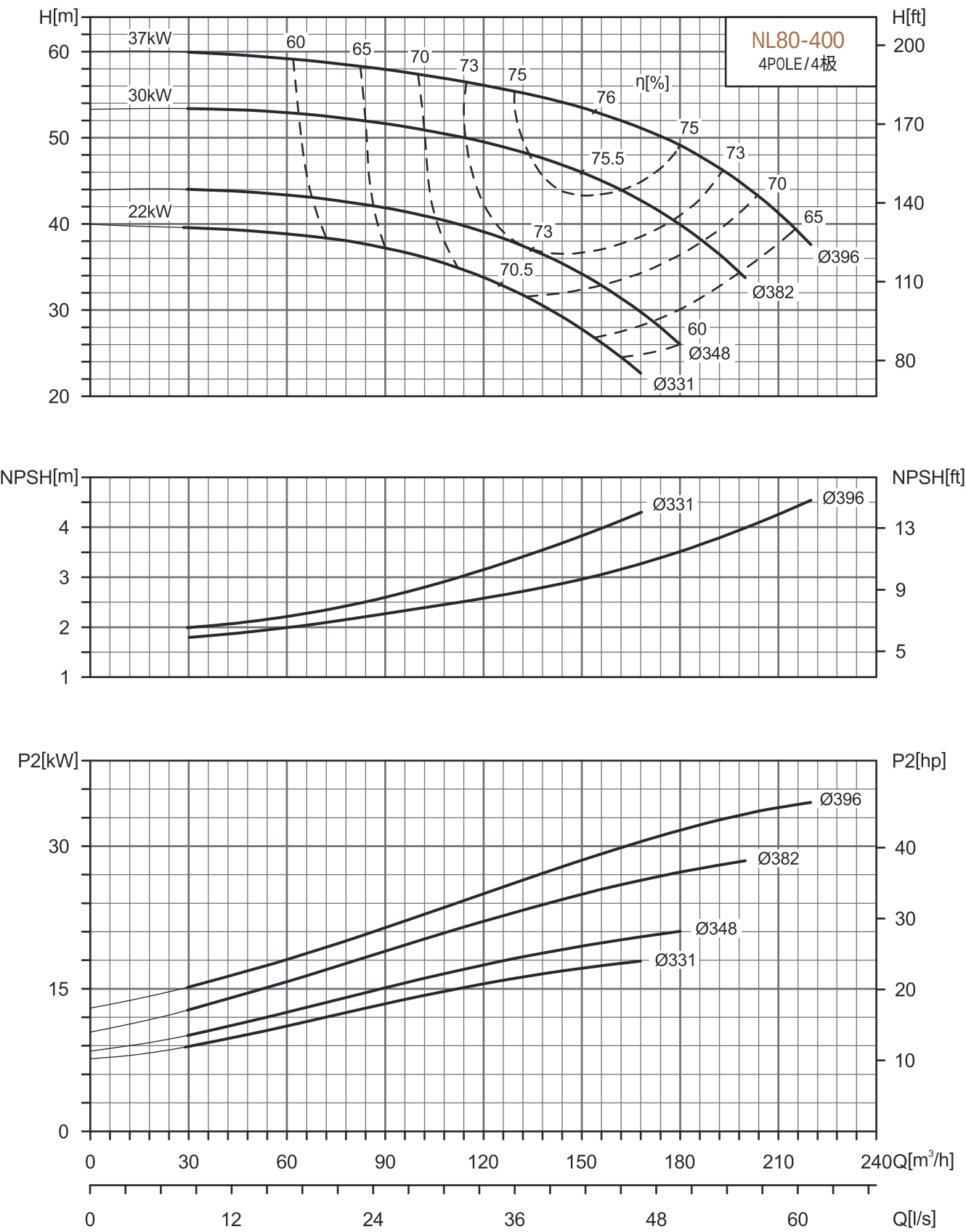
NL125-200



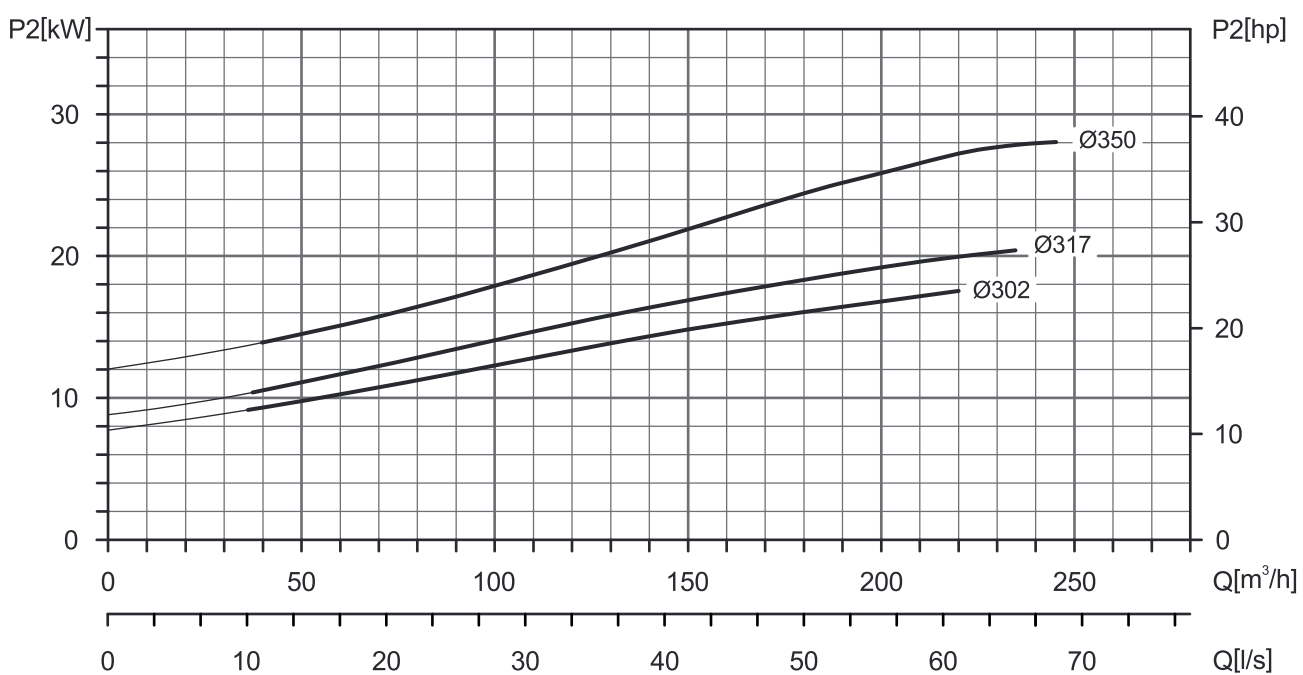
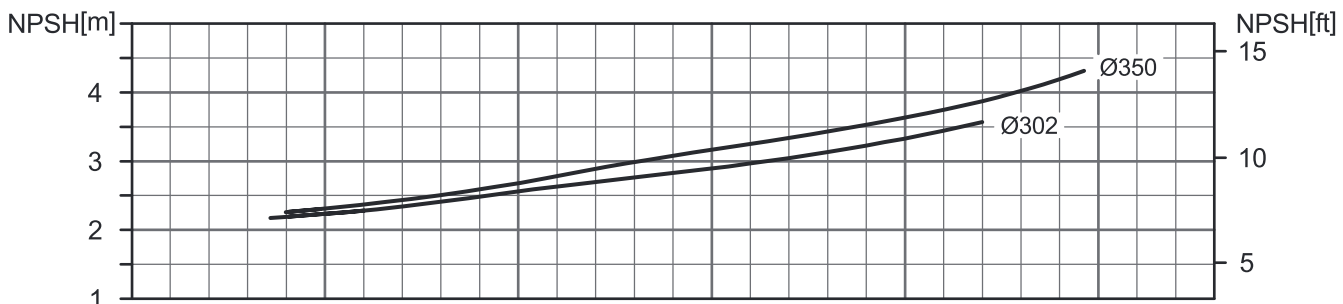
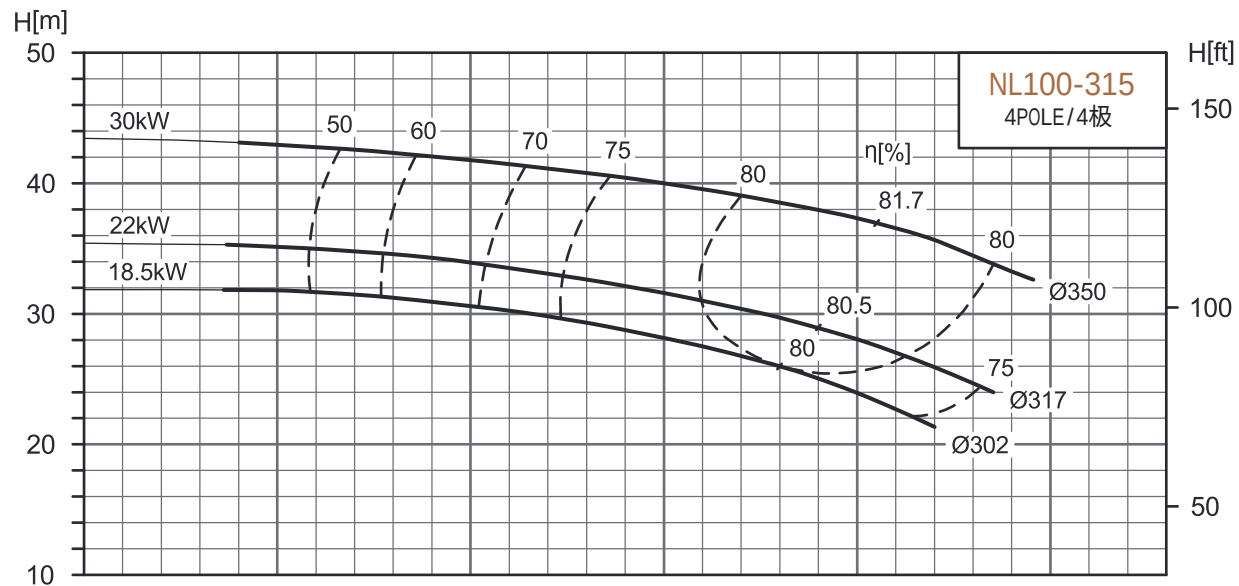
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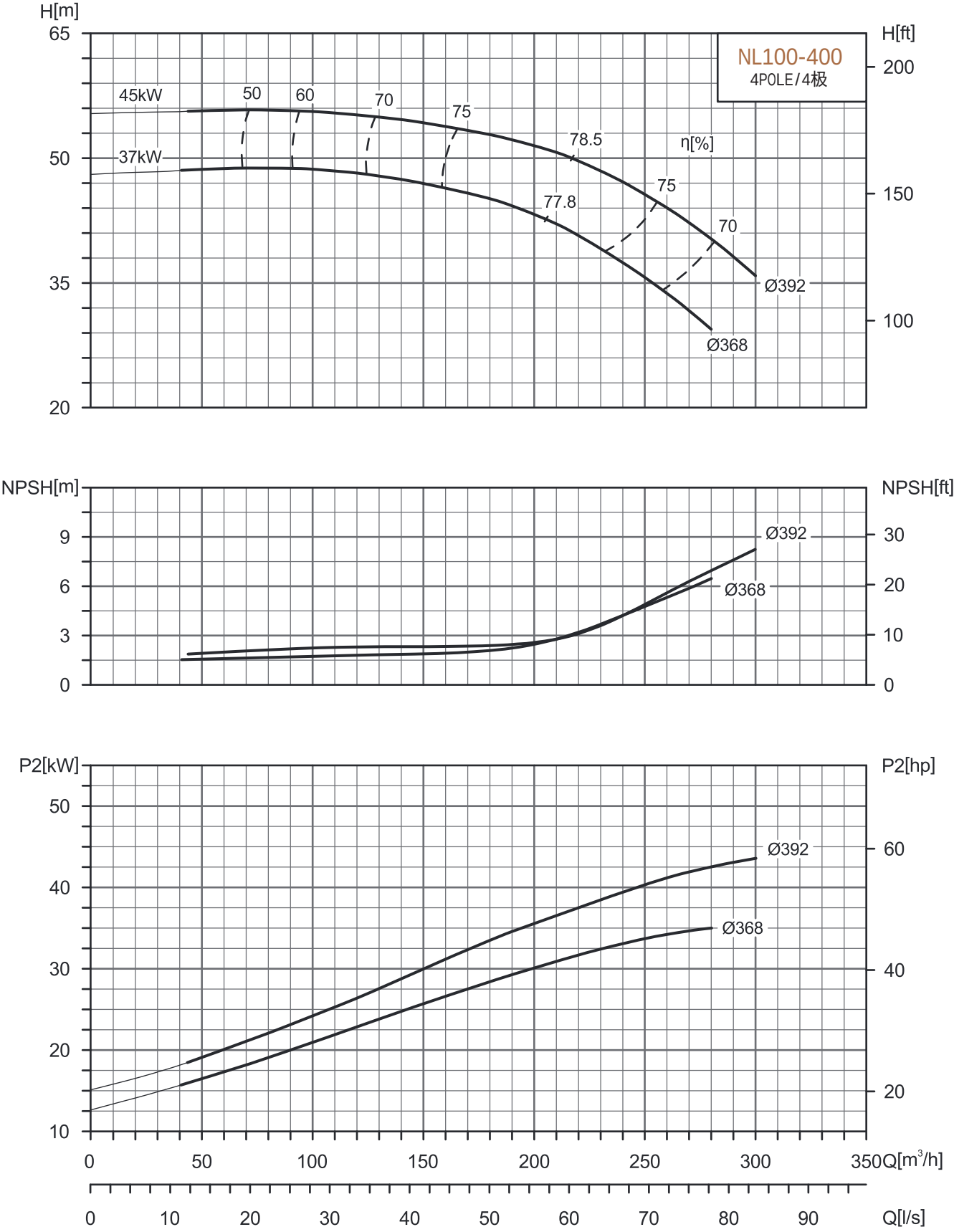
NL80-400



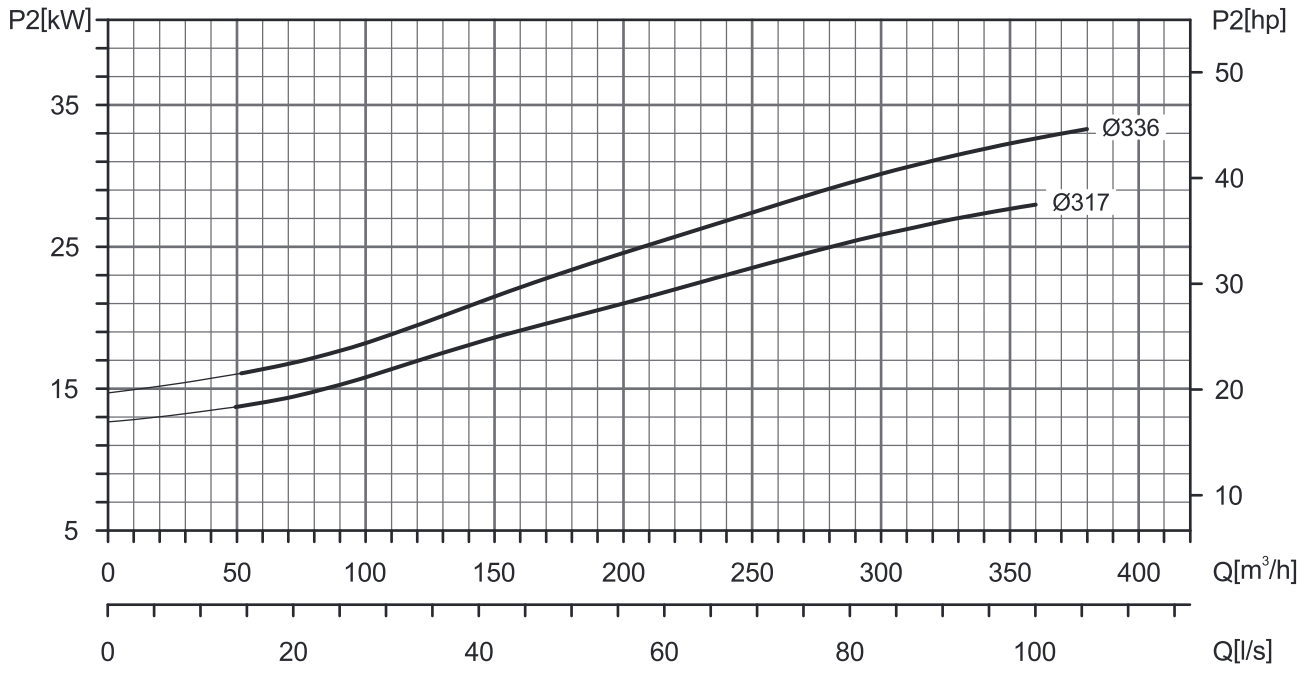
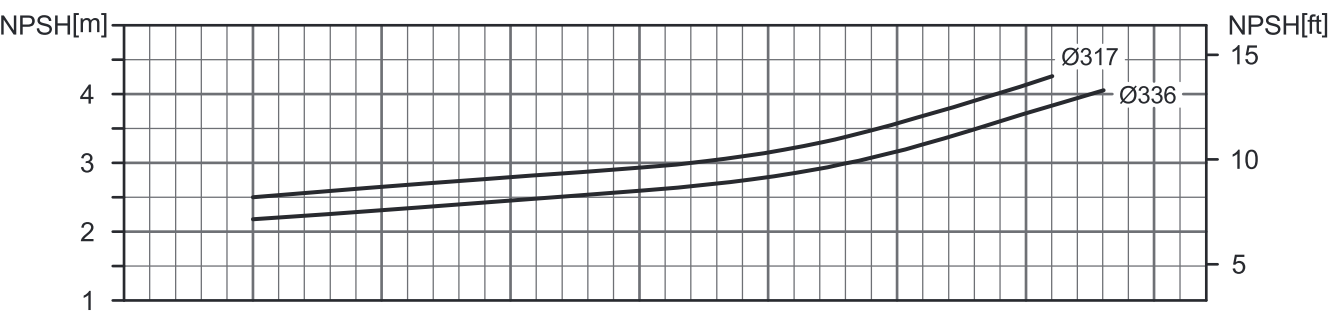
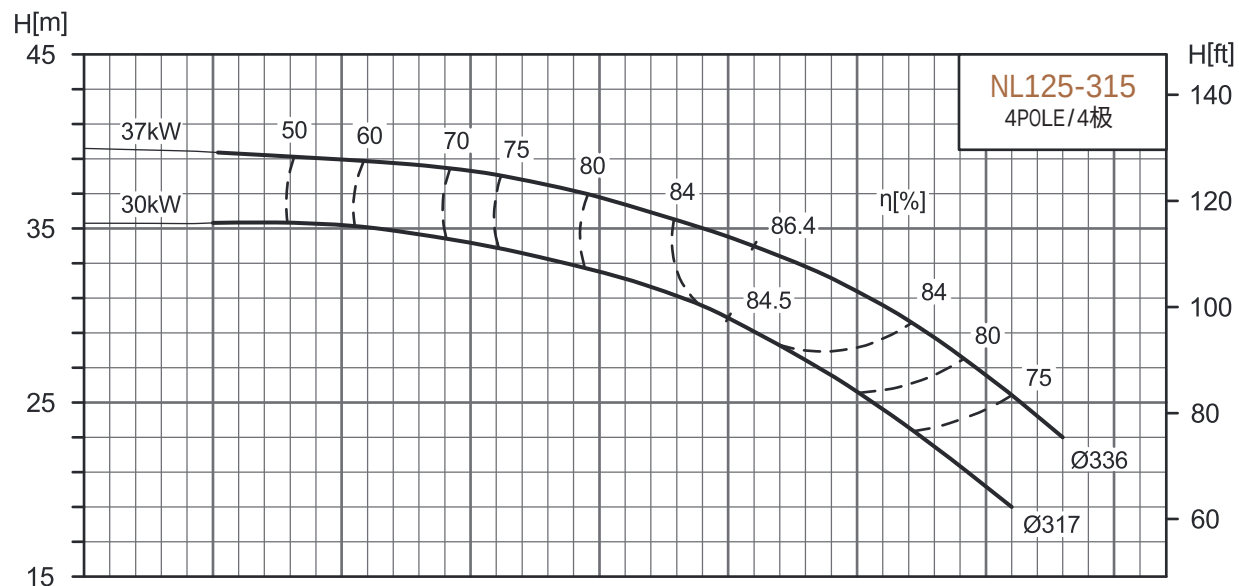
# NL100-315



NL100-400

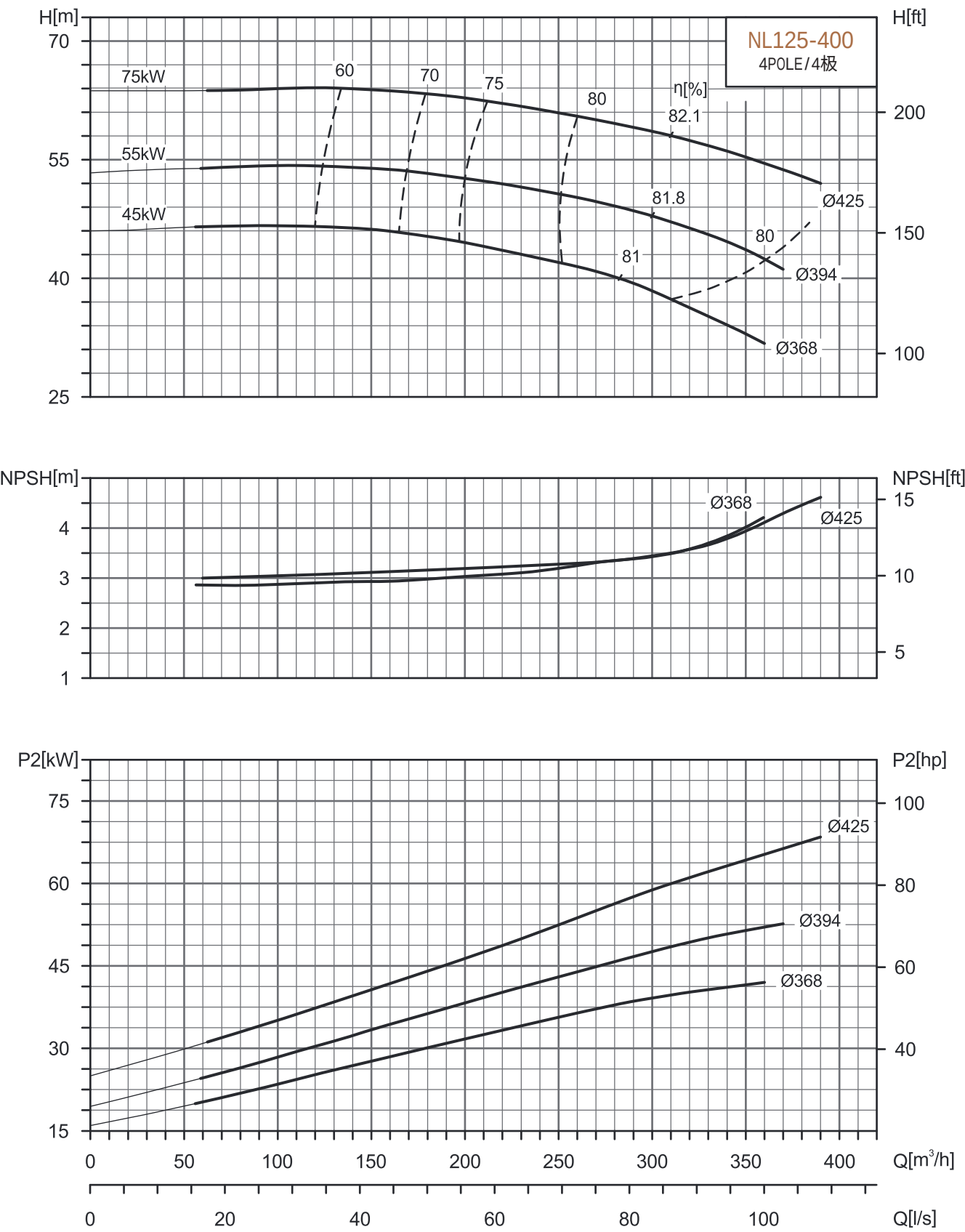


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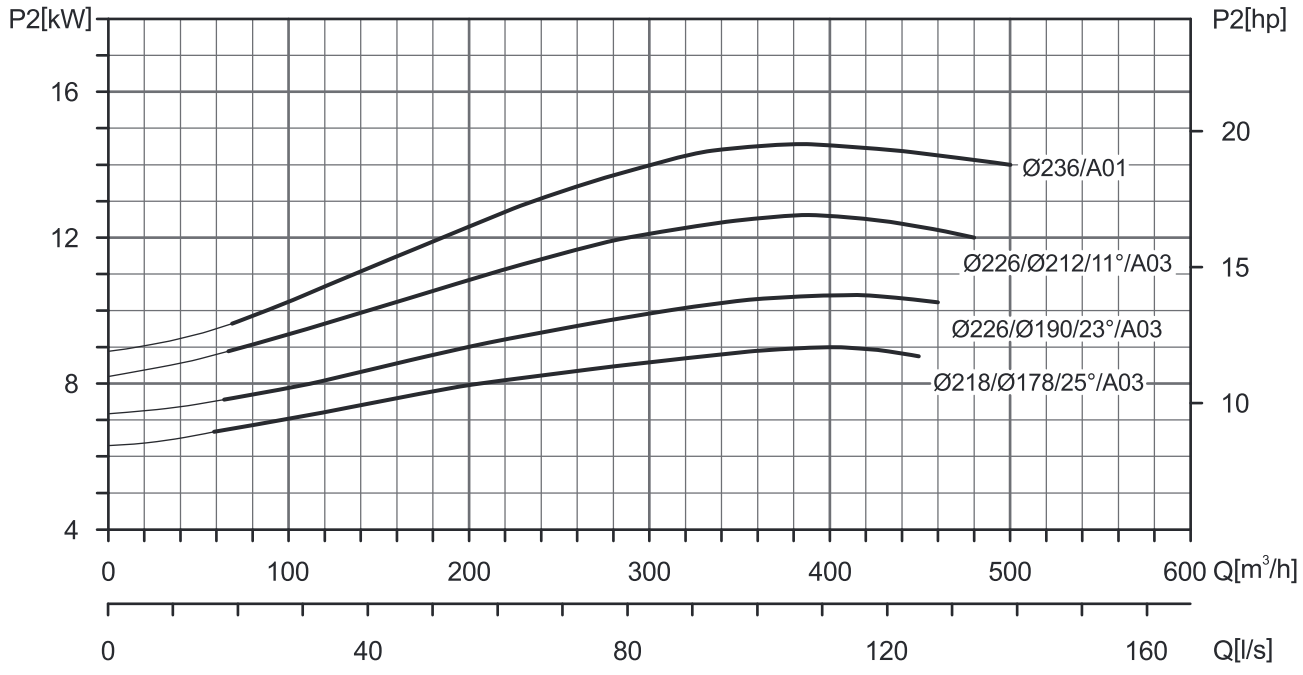
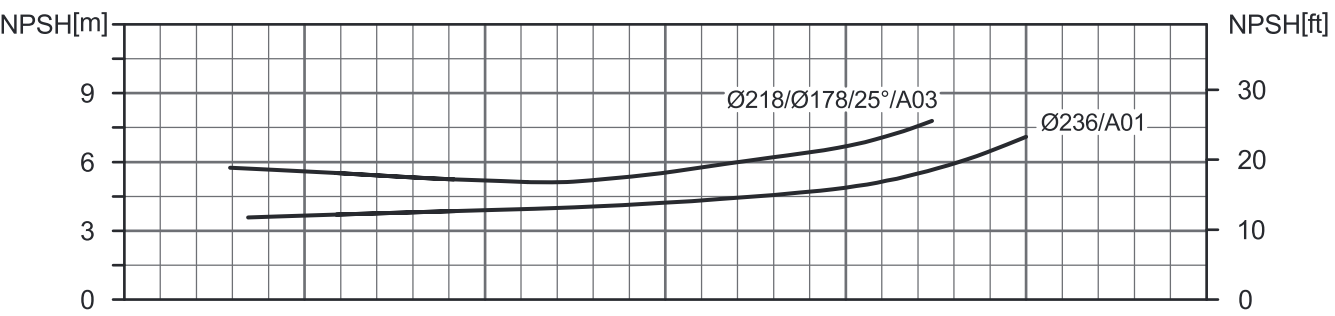
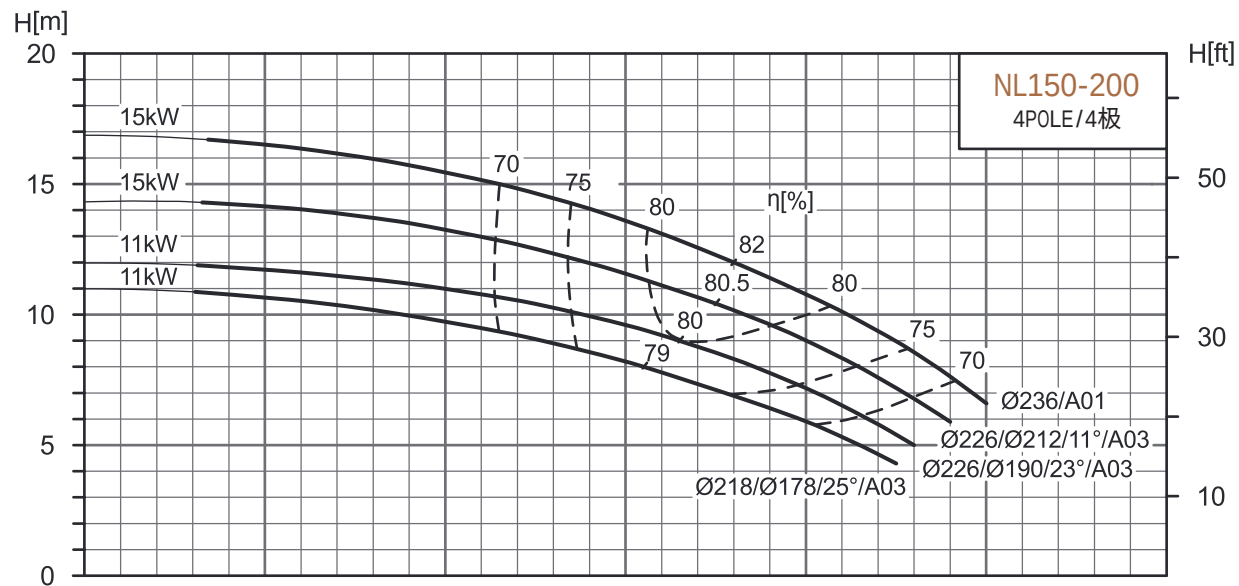




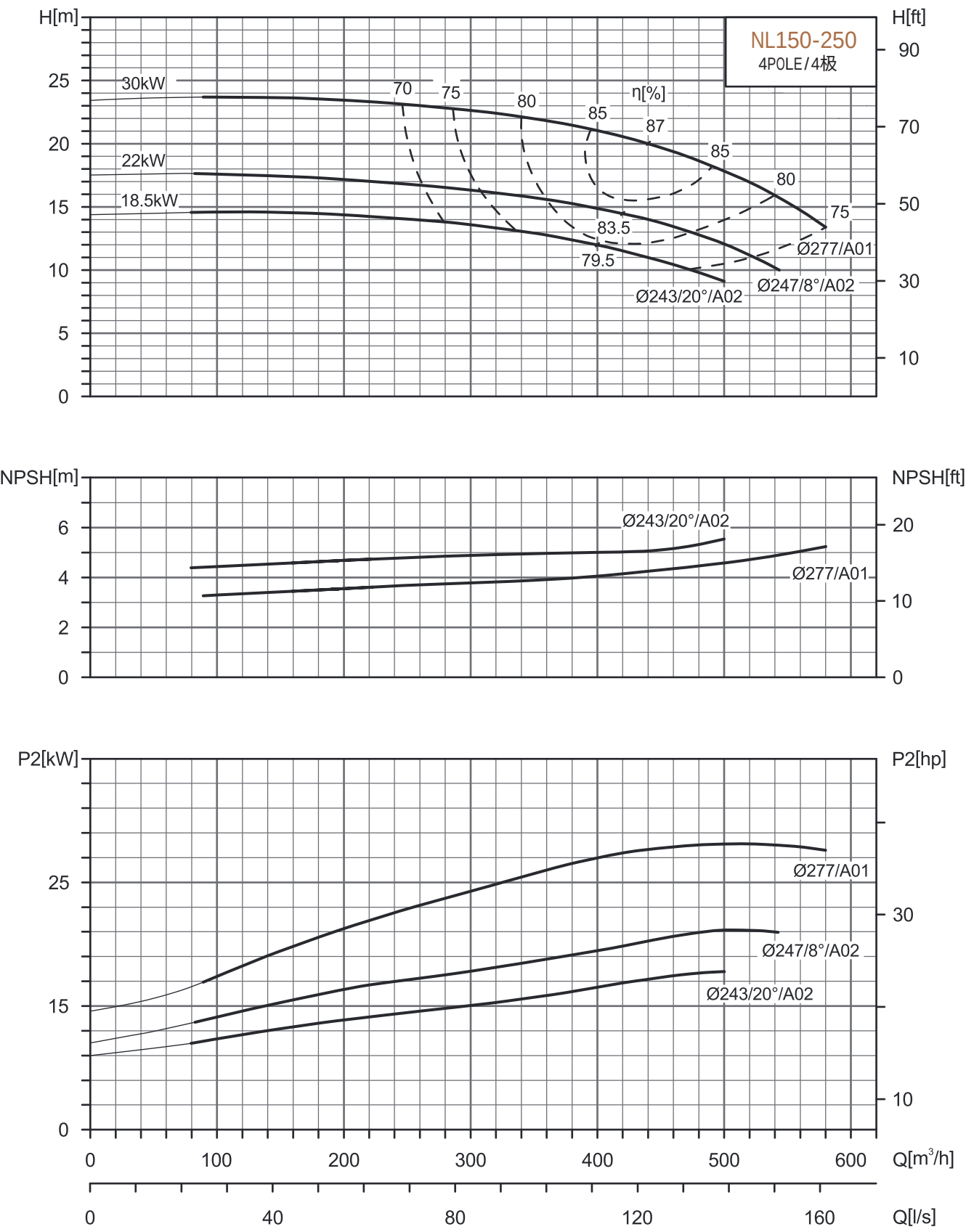
# NL125-400



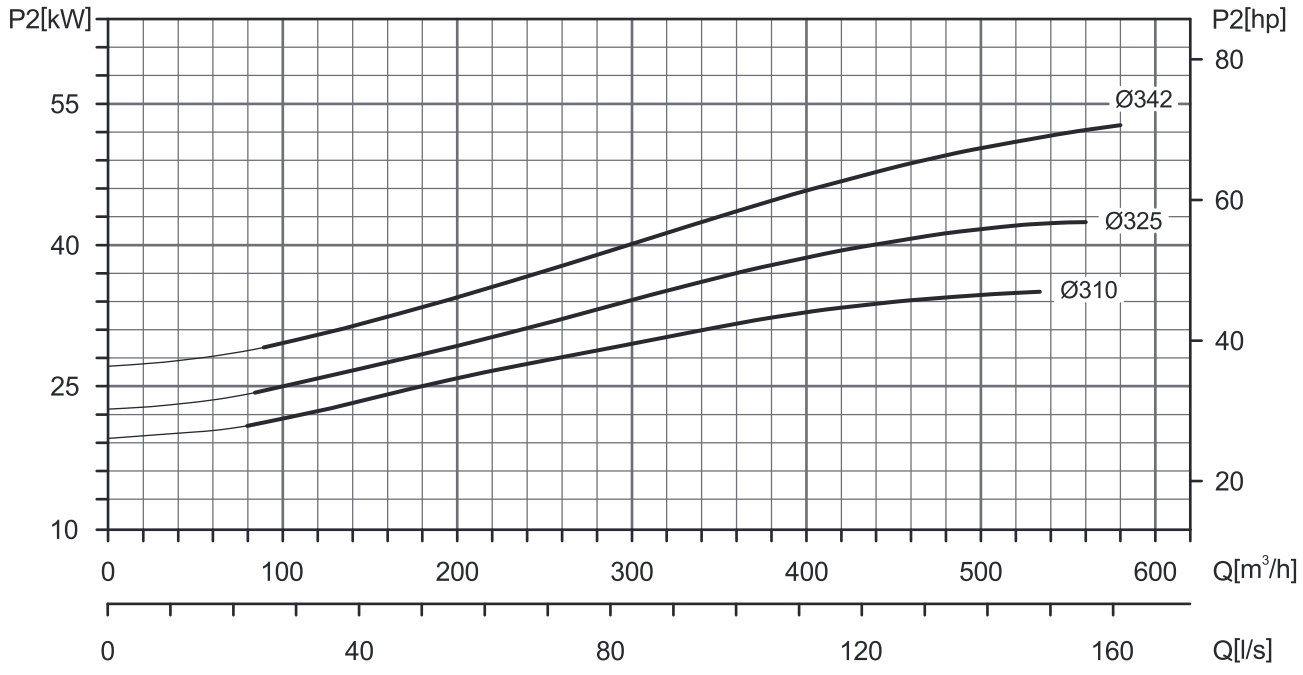
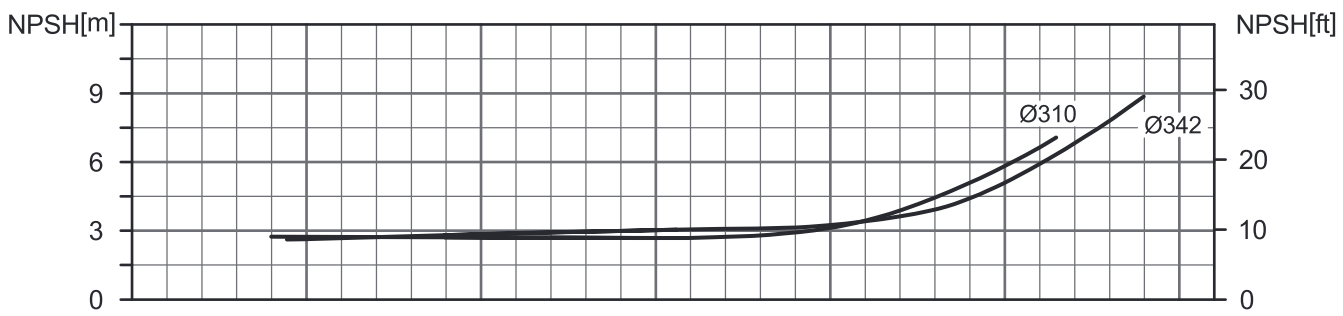
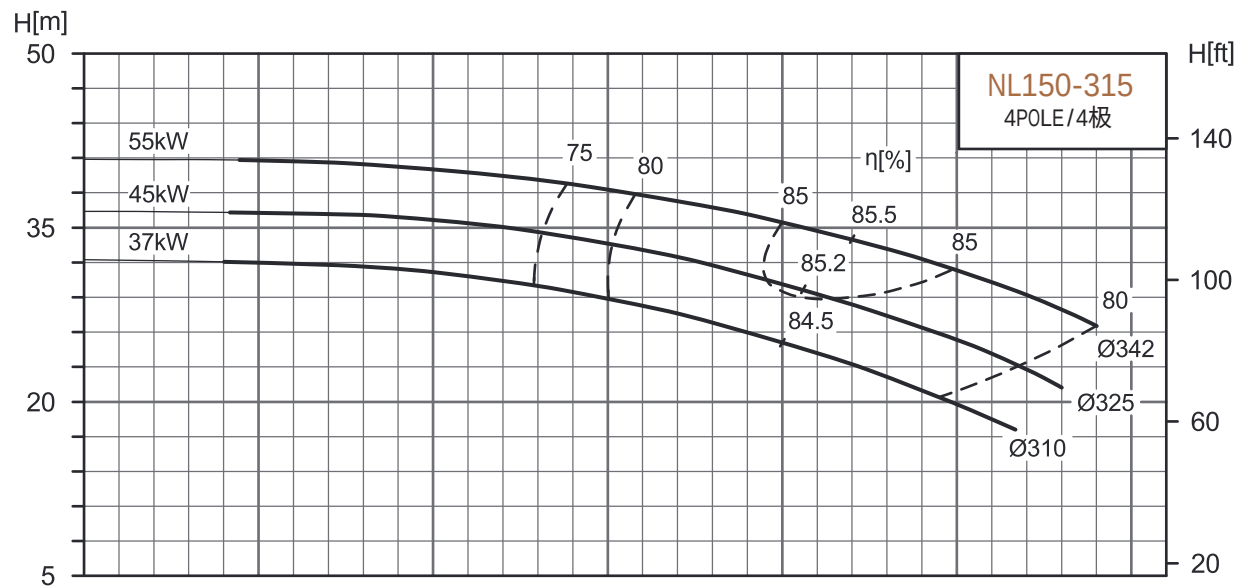
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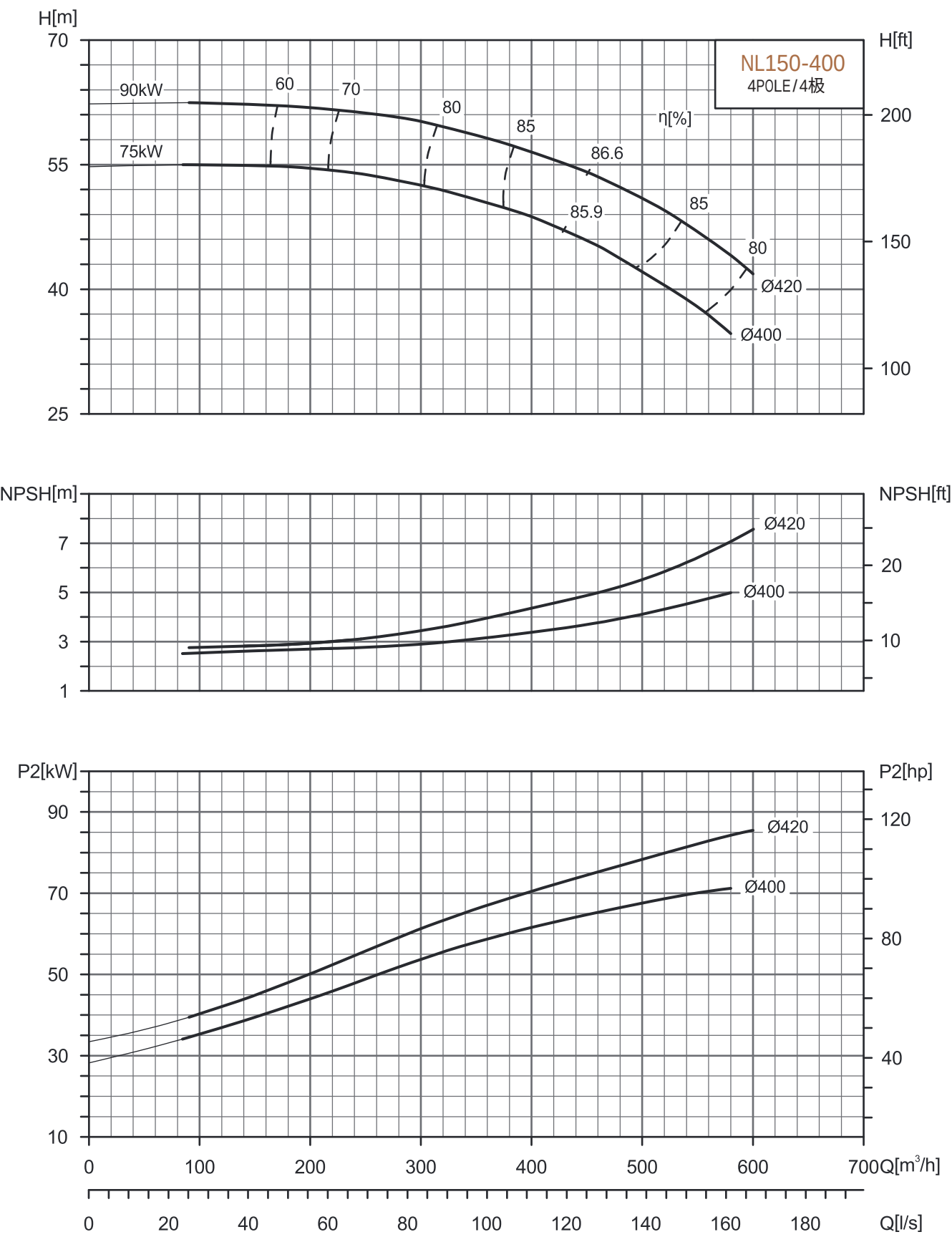
NL150-250



# NL150-315

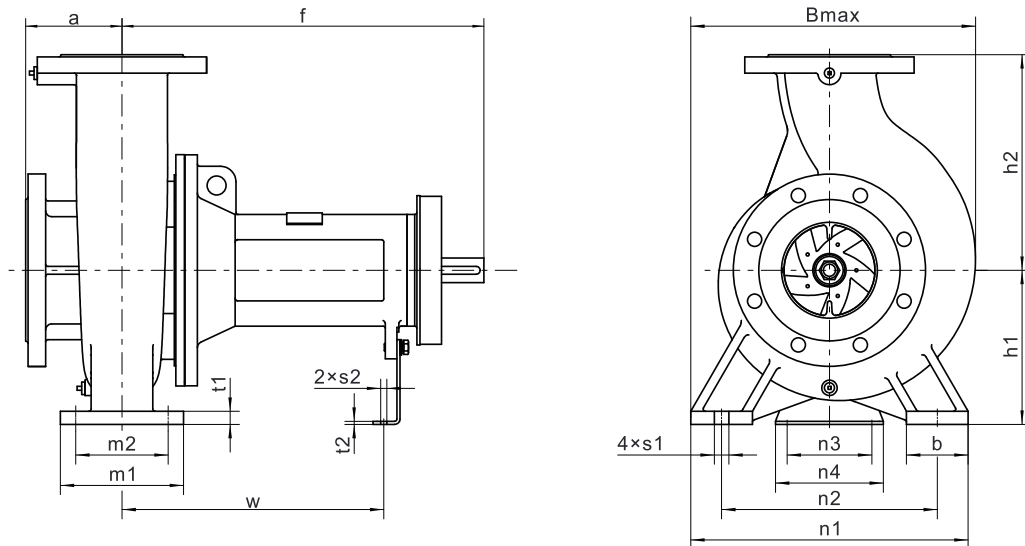


NL150-400



## NLF, NLX, NLN Pump dimensions

## NLF, NLX, NLN 泵外形尺寸图



## NLF, NLX, NLN Pump dimension table

## NLF, NLX, NLN 泵外形尺寸表

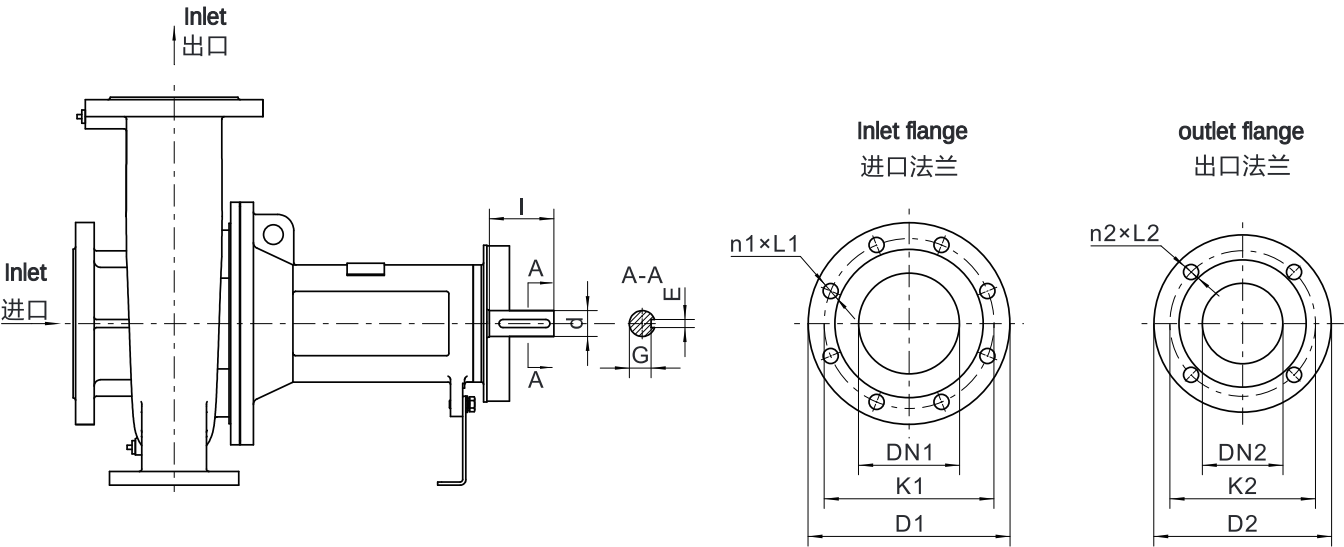
| N°<br>序号 | Model<br>型号 | External dimensions(mm)<br>外形尺寸 (mm) |     |     |     |     |      | Installation size(mm)<br>安装尺寸 (mm) |     |     |     |     |     |    |    |     |     |     |
|----------|-------------|--------------------------------------|-----|-----|-----|-----|------|------------------------------------|-----|-----|-----|-----|-----|----|----|-----|-----|-----|
|          |             | a                                    | f   | h1  | h2  | b   | Bmax | m1                                 | m2  | n1  | n2  | n3  | n4  | t1 | t2 | w   | s1  | s2  |
| 1        | 32-125      | 80                                   | 360 | 112 | 140 | 50  | 210  | 100                                | 70  | 190 | 140 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 2        | 32-160      | 80                                   | 360 | 132 | 160 | 50  | 240  | 100                                | 70  | 240 | 190 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 3        | 32-200      | 80                                   | 360 | 160 | 180 | 50  | 275  | 100                                | 70  | 240 | 190 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 4        | 32-250      | 100                                  | 360 | 180 | 225 | 65  | 329  | 125                                | 95  | 320 | 250 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 5        | 40-125      | 80                                   | 360 | 112 | 140 | 50  | 207  | 100                                | 70  | 210 | 160 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 6        | 40-160      | 80                                   | 360 | 132 | 160 | 50  | 243  | 100                                | 70  | 240 | 190 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 7        | 40-200      | 100                                  | 360 | 160 | 180 | 50  | 270  | 100                                | 70  | 265 | 212 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 8        | 40-250      | 100                                  | 360 | 180 | 225 | 65  | 330  | 125                                | 95  | 320 | 250 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 9        | 40-315      | 125                                  | 470 | 225 | 250 | 65  | 389  | 125                                | 95  | 345 | 280 | 110 | 160 | 16 | 4  | 340 | Ø14 | Ø14 |
| 10       | 50-125      | 100                                  | 360 | 132 | 160 | 50  | 239  | 100                                | 70  | 240 | 190 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 11       | 50-160      | 100                                  | 360 | 160 | 180 | 50  | 271  | 100                                | 70  | 265 | 212 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 12       | 50-200      | 100                                  | 360 | 160 | 200 | 50  | 284  | 100                                | 70  | 265 | 212 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 13       | 50-250      | 100                                  | 360 | 180 | 225 | 65  | 343  | 125                                | 95  | 320 | 250 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 14       | 50-315      | 125                                  | 470 | 225 | 280 | 65  | 489  | 125                                | 95  | 345 | 280 | 110 | 160 | 18 | 4  | 340 | Ø14 | Ø14 |
| 15       | 65-125      | 100                                  | 360 | 160 | 180 | 65  | 283  | 125                                | 95  | 280 | 212 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 16       | 65-160      | 100                                  | 360 | 160 | 200 | 65  | 282  | 125                                | 95  | 280 | 212 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 17       | 65-200      | 100                                  | 360 | 180 | 225 | 65  | 326  | 125                                | 95  | 320 | 250 | 110 | 160 | 16 | 4  | 260 | Ø14 | Ø14 |
| 18       | 65-250      | 100                                  | 470 | 200 | 250 | 80  | 366  | 160                                | 120 | 360 | 280 | 110 | 160 | 16 | 4  | 340 | Ø19 | Ø14 |
| 19       | 65-315      | 125                                  | 470 | 225 | 280 | 80  | 425  | 160                                | 120 | 400 | 315 | 110 | 160 | 18 | 4  | 340 | Ø19 | Ø14 |
| 20       | 80-160      | 125                                  | 360 | 180 | 225 | 65  | 317  | 125                                | 95  | 320 | 250 | 110 | 160 | 14 | 4  | 260 | Ø14 | Ø14 |
| 21       | 80-200      | 125                                  | 470 | 180 | 250 | 65  | 353  | 125                                | 95  | 345 | 280 | 110 | 160 | 16 | 4  | 340 | Ø14 | Ø14 |
| 22       | 80-250      | 125                                  | 470 | 200 | 280 | 80  | 398  | 160                                | 120 | 400 | 315 | 110 | 160 | 16 | 4  | 340 | Ø19 | Ø14 |
| 23       | 80-315*     | 125                                  | 530 | 250 | 315 | 80  | 482  | 160                                | 120 | 400 | 315 | 110 | 160 | 20 | 5  | 370 | Ø19 | Ø14 |
| 24       | 80-400      | 125                                  | 530 | 280 | 355 | 80  | 517  | 160                                | 120 | 435 | 355 | 110 | 160 | 20 | 5  | 370 | Ø19 | Ø14 |
| 25       | 100-160     | 125                                  | 470 | 200 | 280 | 80  | 370  | 160                                | 120 | 360 | 280 | 110 | 160 | 17 | 4  | 340 | Ø19 | Ø14 |
| 26       | 100-200     | 125                                  | 470 | 200 | 280 | 80  | 390  | 160                                | 120 | 360 | 280 | 110 | 160 | 17 | 4  | 340 | Ø19 | Ø14 |
| 27       | 100-250     | 140                                  | 470 | 225 | 280 | 80  | 423  | 160                                | 120 | 400 | 315 | 110 | 160 | 17 | 4  | 340 | Ø19 | Ø14 |
| 28       | 100-315     | 140                                  | 470 | 250 | 315 | 80  | 489  | 160                                | 120 | 400 | 315 | 110 | 160 | 18 | 4  | 340 | Ø19 | Ø14 |
| 29       | 100-400     | 140                                  | 530 | 280 | 355 | 100 | 551  | 200                                | 150 | 500 | 400 | 110 | 160 | 20 | 4  | 370 | Ø23 | Ø14 |
| 30       | 125-200     | 140                                  | 470 | 250 | 315 | 80  | 439  | 160                                | 120 | 400 | 315 | 110 | 160 | 20 | 4  | 340 | Ø19 | Ø14 |

| N°<br>序号 | Model<br>型号 | External dimensions(mm)<br>外形尺寸 (mm) |     |     |     |     |      | Installation size(mm)<br>安装尺寸 (mm) |     |     |     |     |     |    |    |     |     |     |
|----------|-------------|--------------------------------------|-----|-----|-----|-----|------|------------------------------------|-----|-----|-----|-----|-----|----|----|-----|-----|-----|
|          |             | a                                    | f   | h1  | h2  | b   | Bmax | m1                                 | m2  | n1  | n2  | n3  | n4  | t1 | t2 | w   | s1  | s2  |
| 31       | 125-250*    | 140                                  | 530 | 250 | 355 | 80  | 459  | 160                                | 120 | 400 | 315 | 110 | 160 | 20 | 5  | 370 | Ø19 | Ø14 |
| 32       | 125-315     | 140                                  | 530 | 280 | 355 | 100 | 520  | 200                                | 150 | 500 | 400 | 110 | 160 | 20 | 5  | 370 | Ø23 | Ø14 |
| 33       | 125-400     | 140                                  | 530 | 315 | 400 | 100 | 612  | 200                                | 150 | 500 | 400 | 110 | 160 | 20 | 5  | 370 | Ø23 | Ø14 |
| 34       | 150-200     | 160                                  | 470 | 280 | 400 | 100 | 580  | 200                                | 150 | 550 | 450 | 110 | 160 | 20 | 4  | 340 | Ø23 | Ø14 |
| 35       | 150-250     | 160                                  | 530 | 280 | 400 | 100 | 543  | 200                                | 150 | 500 | 400 | 110 | 160 | 20 | 4  | 370 | Ø23 | Ø14 |
| 36       | 150-315     | 160                                  | 530 | 280 | 400 | 100 | 579  | 200                                | 150 | 550 | 450 | 110 | 160 | 20 | 4  | 370 | Ø23 | Ø14 |
| 37       | 150-400     | 160                                  | 530 | 315 | 450 | 100 | 623  | 200                                | 150 | 550 | 450 | 110 | 160 | 20 | 5  | 370 | Ø23 | Ø14 |

Note: The dimensions of pump f and w with \* are inconsistent with EN733 standard  
注：带\*型号泵f和w尺寸与EN733标准不一致

NLF, NLX, NLN Pump dimensions

NLF, NLX, NLN 泵外形尺寸图



NLF, NLX, NLN Pump dimension table

NLF, NLX, NLN 泵外形尺寸表

| N°<br>序号 | Model<br>型号 | Imported flange size(mm)<br>进口法兰尺寸 (mm) |     |     |    |     | Export flange size(mm)<br>出口法兰尺寸 (mm) |     |     |    |     | Axis extension size(mm)<br>轴伸尺寸 (mm) |    |    |    | Weight<br>(kg)<br>重量 (kg) |
|----------|-------------|-----------------------------------------|-----|-----|----|-----|---------------------------------------|-----|-----|----|-----|--------------------------------------|----|----|----|---------------------------|
|          |             | DN1                                     | K1  | D1  | n1 | L1  | DN2                                   | K2  | D2  | n2 | L2  | d                                    | I  | E  | G  |                           |
| 1        | 32-125      | 50                                      | 125 | 165 | 4  | Ø19 | 32                                    | 100 | 140 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 32                        |
| 2        | 32-160      | 50                                      | 125 | 165 | 4  | Ø19 | 32                                    | 100 | 140 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 35                        |
| 3        | 32-200      | 50                                      | 125 | 165 | 4  | Ø19 | 32                                    | 100 | 140 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 38                        |
| 4        | 32-250      | 50                                      | 125 | 160 | 4  | Ø19 | 32                                    | 100 | 140 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 48                        |
| 5        | 40-125      | 65                                      | 145 | 185 | 4  | Ø19 | 40                                    | 110 | 150 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 33                        |
| 6        | 40-160      | 65                                      | 145 | 185 | 4  | Ø19 | 40                                    | 110 | 150 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 36                        |
| 7        | 40-200      | 65                                      | 145 | 185 | 4  | Ø19 | 40                                    | 110 | 150 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 40                        |
| 8        | 40-250      | 65                                      | 145 | 185 | 4  | Ø19 | 40                                    | 110 | 150 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 51                        |
| 9        | 40-315      | 65                                      | 145 | 185 | 4  | Ø19 | 40                                    | 110 | 150 | 4  | Ø19 | Ø32                                  | 80 | 10 | 27 | 80                        |
| 10       | 50-125      | 65                                      | 145 | 185 | 4  | Ø19 | 50                                    | 125 | 165 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 35                        |
| 11       | 50-160      | 65                                      | 145 | 185 | 4  | Ø19 | 50                                    | 125 | 165 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 39                        |
| 12       | 50-200      | 65                                      | 145 | 185 | 4  | Ø19 | 50                                    | 125 | 165 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 48                        |
| 13       | 50-250      | 65                                      | 145 | 185 | 4  | Ø19 | 50                                    | 125 | 165 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 58                        |
| 14       | 50-315      | 65                                      | 145 | 185 | 4  | Ø19 | 50                                    | 125 | 165 | 4  | Ø19 | Ø32                                  | 80 | 10 | 27 | 91                        |
| 15       | 65-125      | 80                                      | 160 | 200 | 8  | Ø19 | 65                                    | 145 | 185 | 4  | Ø19 | Ø24                                  | 50 | 8  | 20 | 37                        |

| N°<br>序号 | Model<br>型号 | Imported flange size(mm)<br>进口法兰尺寸 (mm) |     |     |    |     | Export flange size(mm)<br>出口法兰尺寸 (mm) |     |     |    |     | Axis extension size(mm)<br>轴伸尺寸 (mm) |     |    |    | Weight<br>(kg)<br>重量 (kg) |
|----------|-------------|-----------------------------------------|-----|-----|----|-----|---------------------------------------|-----|-----|----|-----|--------------------------------------|-----|----|----|---------------------------|
|          |             | DN1                                     | K1  | D1  | n1 | L1  | DN2                                   | K2  | D2  | n2 | L2  | d                                    | I   | E  | G  |                           |
| 16       | 65-160      | 80                                      | 160 | 200 | 8  | Ø19 | 65                                    | 145 | 185 | 4  | Ø19 | Ø24                                  | 50  | 8  | 20 | 41                        |
| 17       | 65-200      | 80                                      | 160 | 200 | 8  | Ø19 | 65                                    | 145 | 185 | 4  | Ø19 | Ø24                                  | 50  | 8  | 20 | 53                        |
| 18       | 65-250      | 80                                      | 160 | 200 | 8  | Ø19 | 65                                    | 145 | 185 | 4  | Ø19 | Ø32                                  | 80  | 10 | 27 | 73                        |
| 19       | 65-315      | 80                                      | 160 | 200 | 8  | Ø19 | 65                                    | 145 | 185 | 4  | Ø19 | Ø32                                  | 80  | 10 | 27 | 95                        |
| 20       | 80-160      | 100                                     | 180 | 220 | 8  | Ø19 | 80                                    | 160 | 200 | 8  | Ø19 | Ø24                                  | 50  | 8  | 20 | 47                        |
| 21       | 80-200      | 100                                     | 180 | 220 | 8  | Ø19 | 80                                    | 160 | 200 | 8  | Ø19 | Ø32                                  | 80  | 10 | 27 | 67                        |
| 22       | 80-250      | 100                                     | 180 | 220 | 8  | Ø19 | 80                                    | 160 | 200 | 8  | Ø19 | Ø32                                  | 80  | 10 | 27 | 81                        |
| 23       | 80-315*     | 100                                     | 180 | 220 | 8  | Ø19 | 80                                    | 160 | 200 | 8  | Ø19 | Ø42                                  | 110 | 12 | 37 | 133                       |
| 24       | 80-400      | 100                                     | 180 | 220 | 8  | Ø19 | 80                                    | 160 | 200 | 8  | Ø19 | Ø42                                  | 110 | 12 | 37 | 147                       |
| 25       | 100-160     | 125                                     | 210 | 250 | 8  | Ø19 | 100                                   | 180 | 220 | 8  | Ø19 | Ø32                                  | 80  | 10 | 27 | 71                        |
| 26       | 100-200     | 125                                     | 210 | 250 | 8  | Ø19 | 100                                   | 180 | 220 | 8  | Ø19 | Ø32                                  | 80  | 10 | 27 | 81                        |
| 27       | 100-250     | 125                                     | 210 | 250 | 8  | Ø19 | 100                                   | 180 | 220 | 8  | Ø19 | Ø32                                  | 80  | 10 | 27 | 110                       |
| 28       | 100-315     | 125                                     | 210 | 250 | 8  | Ø19 | 100                                   | 180 | 220 | 8  | Ø19 | Ø32                                  | 80  | 10 | 27 | 129                       |
| 29       | 100-400     | 125                                     | 210 | 250 | 8  | Ø19 | 100                                   | 180 | 220 | 8  | Ø19 | Ø42                                  | 110 | 12 | 37 | 175                       |
| 30       | 125-200     | 150                                     | 240 | 285 | 8  | Ø23 | 125                                   | 210 | 250 | 8  | Ø19 | Ø32                                  | 80  | 10 | 27 | 91                        |
| 31       | 125-250*    | 150                                     | 240 | 285 | 8  | Ø23 | 125                                   | 210 | 250 | 8  | Ø19 | Ø42                                  | 110 | 12 | 37 | 131                       |
| 32       | 125-315     | 150                                     | 240 | 285 | 8  | Ø23 | 125                                   | 210 | 250 | 8  | Ø19 | Ø42                                  | 110 | 12 | 37 | 151                       |
| 33       | 125-400     | 150                                     | 240 | 285 | 8  | Ø23 | 125                                   | 210 | 250 | 8  | Ø19 | Ø42                                  | 110 | 12 | 37 | 193                       |
| 34       | 150-200     | 200                                     | 295 | 340 | 12 | Ø23 | 150                                   | 240 | 285 | 8  | Ø23 | Ø32                                  | 80  | 10 | 27 | 121                       |
| 35       | 150-250     | 200                                     | 295 | 340 | 12 | Ø23 | 150                                   | 240 | 285 | 8  | Ø23 | Ø42                                  | 110 | 12 | 37 | 159                       |
| 36       | 150-315     | 200                                     | 295 | 340 | 12 | Ø23 | 150                                   | 240 | 285 | 8  | Ø23 | Ø42                                  | 110 | 12 | 37 | 167                       |
| 37       | 150-400     | 200                                     | 295 | 340 | 12 | Ø23 | 150                                   | 240 | 285 | 8  | Ø23 | Ø42                                  | 110 | 12 | 37 | 203                       |

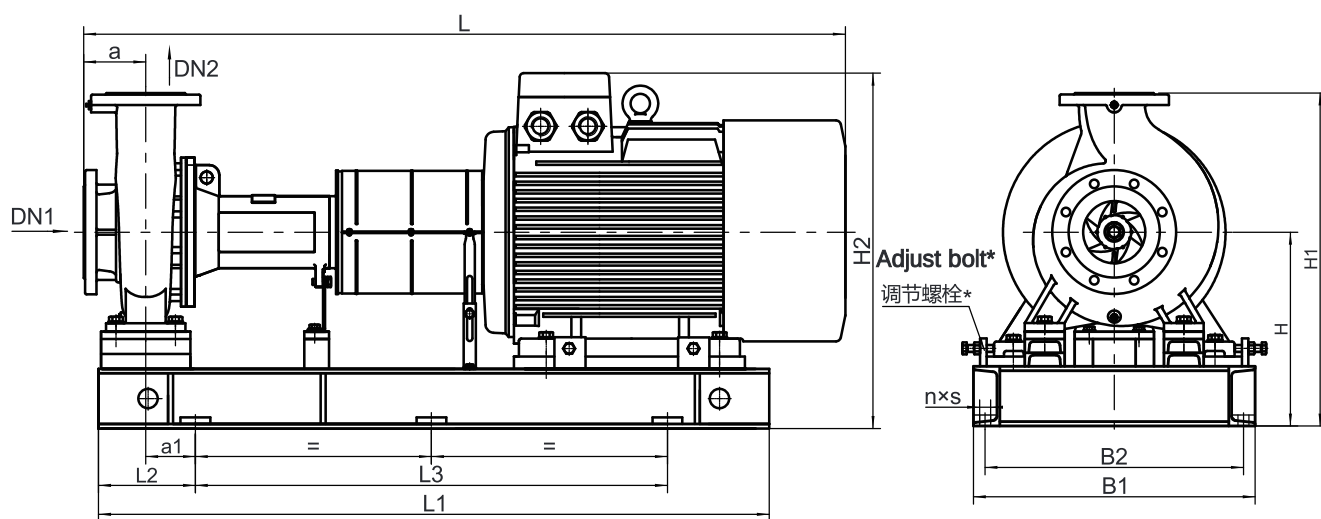
Note: The pump shaft extension size with \* model is inconsistent with the EM733 standard

注：带\*型号泵轴伸尺寸与EM733标准不一致

## NLF, NLX, NLN Pump set dimensions

## NLF, NLX, NLN

## 泵组外形尺寸图



Description: The pump is equipped with a motor with a power of 55kW or above and an adjusting bolt, which is used to adjust the concentricity of the coupling.

说明：泵配套电机功率55kW及以上带调节螺栓，用于调节联轴器同心度。



NLF, NLX, NLN Pump set dimension table 2 pole

NLF, NLX, NN 泵组L外形尺寸表 2极

单位：mm

| Model<br>型号 | Power<br>功率 | a   | a1    | B1  | B2  | H   | H1  | H2  | L1   | L2  | L3  | L    | n | s   | DN1 | DN2 | Weight<br>(kg)<br>重量<br>(kg) |
|-------------|-------------|-----|-------|-----|-----|-----|-----|-----|------|-----|-----|------|---|-----|-----|-----|------------------------------|
| 32-125      | 0.75        | 80  | 45    | 275 | 245 | 185 | 325 | 313 | 650  | 100 | 450 | 746  | 4 | Ø14 | 50  | 32  | 64                           |
|             | 1.1         | 80  | 45    | 275 | 245 | 185 | 325 | 313 | 650  | 100 | 450 | 746  | 4 | Ø14 |     |     | 65                           |
|             | 1.5         | 80  | 45    | 275 | 245 | 185 | 325 | 305 | 690  | 100 | 480 | 800  | 4 | Ø14 |     |     | 72                           |
| 32-160      | 2.2         | 80  | 45    | 320 | 290 | 205 | 365 | 325 | 690  | 100 | 480 | 800  | 4 | Ø14 | 50  | 32  | 80                           |
|             | 3           | 80  | 45    | 320 | 290 | 205 | 365 | 337 | 735  | 100 | 520 | 861  | 4 | Ø14 |     |     | 90                           |
| 32-200      | 4           | 80  | 45    | 320 | 290 | 235 | 415 | 388 | 735  | 100 | 520 | 873  | 4 | Ø14 | 50  | 32  | 101                          |
|             | 5.5         | 80  | 45    | 320 | 290 | 235 | 415 | 403 | 785  | 100 | 570 | 930  | 4 | Ø14 |     |     | 118                          |
| 32-250      | 7.5         | 100 | 35    | 366 | 330 | 270 | 495 | 438 | 785  | 100 | 570 | 950  | 4 | Ø14 | 50  | 32  | 143                          |
|             | 11          | 100 | 82.5  | 386 | 350 | 270 | 495 | 495 | 910  | 150 | 600 | 1094 | 4 | Ø19 |     |     | 203                          |
| 40-125      | 1.1         | 80  | 45    | 275 | 245 | 185 | 325 | 313 | 650  | 100 | 450 | 746  | 4 | Ø14 | 65  | 40  | 67                           |
|             | 1.5         | 80  | 45    | 275 | 245 | 185 | 325 | 305 | 690  | 100 | 480 | 800  | 4 | Ø14 |     |     | 73                           |
|             | 2.2         | 80  | 45    | 275 | 245 | 185 | 325 | 305 | 690  | 100 | 480 | 800  | 4 | Ø14 |     |     | 76                           |
| 40-160      | 3           | 80  | 45    | 320 | 290 | 205 | 365 | 337 | 735  | 100 | 520 | 861  | 4 | Ø14 | 65  | 40  | 91                           |
|             | 4           | 80  | 45    | 320 | 290 | 205 | 365 | 358 | 735  | 100 | 520 | 873  | 4 | Ø14 |     |     | 98                           |
| 40-200      | 5.5         | 100 | 45    | 366 | 330 | 250 | 430 | 418 | 785  | 100 | 570 | 950  | 4 | Ø14 | 65  | 40  | 124                          |
|             | 7.5         | 100 | 45    | 366 | 330 | 250 | 430 | 418 | 785  | 100 | 570 | 950  | 4 | Ø14 |     |     | 132                          |
| 40-250      | 11          | 100 | 82.5  | 386 | 350 | 270 | 495 | 495 | 910  | 150 | 600 | 1094 | 4 | Ø19 | 65  | 40  | 206                          |
|             | 15          | 100 | 82.5  | 386 | 350 | 270 | 495 | 495 | 910  | 150 | 600 | 1094 | 4 | Ø19 |     |     | 221                          |
| 40-315      | 18.5        | 125 | 82.5  | 410 | 370 | 340 | 590 | 565 | 1080 | 150 | 750 | 1273 | 4 | Ø19 | 65  | 40  | 275                          |
|             | 22          | 125 | 82.5  | 410 | 370 | 360 | 610 | 580 | 1080 | 150 | 750 | 1310 | 4 | Ø19 |     |     | 331                          |
|             | 30          | 125 | 112.5 | 456 | 415 | 360 | 610 | 625 | 1150 | 180 | 760 | 1393 | 4 | Ø19 |     |     | 399                          |
|             | 37          | 125 | 112.5 | 456 | 415 | 360 | 610 | 625 | 1150 | 180 | 760 | 1393 | 4 | Ø19 |     |     | 419                          |
| 50-125      | 2.2         | 100 | 45    | 320 | 290 | 205 | 365 | 325 | 690  | 100 | 480 | 820  | 4 | Ø14 | 65  | 50  | 80                           |
|             | 3           | 100 | 45    | 320 | 290 | 205 | 365 | 338 | 735  | 100 | 520 | 881  | 4 | Ø14 |     |     | 90                           |
|             | 4           | 100 | 45    | 320 | 290 | 205 | 365 | 358 | 735  | 100 | 520 | 893  | 4 | Ø14 |     |     | 97                           |
| 50-160      | 5.5         | 100 | 45    | 366 | 330 | 250 | 430 | 418 | 785  | 100 | 570 | 950  | 4 | Ø14 | 65  | 50  | 123                          |
|             | 7.5         | 100 | 45    | 366 | 330 | 250 | 430 | 418 | 785  | 100 | 570 | 950  | 4 | Ø14 |     |     | 131                          |
| 50-200      | 11          | 100 | 95    | 386 | 350 | 250 | 450 | 475 | 910  | 150 | 600 | 1094 | 4 | Ø19 | 65  | 50  | 202                          |
| 50-250      | 15          | 100 | 82.5  | 410 | 370 | 295 | 520 | 520 | 970  | 150 | 650 | 1094 | 4 | Ø19 | 65  | 50  | 237                          |
|             | 18.5        | 100 | 82.5  | 410 | 370 | 295 | 520 | 520 | 970  | 150 | 650 | 1138 | 4 | Ø19 |     |     | 245                          |
|             | 22          | 100 | 82.5  | 410 | 370 | 295 | 520 | 535 | 970  | 150 | 650 | 1175 | 4 | Ø19 |     |     | 299                          |
| 50-315      | 30          | 125 | 112.5 | 456 | 415 | 360 | 640 | 620 | 1150 | 180 | 760 | 1393 | 4 | Ø19 | 65  | 50  | 413                          |
|             | 37          | 125 | 112.5 | 456 | 415 | 360 | 640 | 620 | 1150 | 180 | 760 | 1393 | 4 | Ø19 |     |     | 433                          |
|             | 45          | 125 | 127.5 | 496 | 450 | 365 | 645 | 655 | 1200 | 200 | 800 | 1428 | 4 | Ø22 |     |     | 532                          |
|             | 55          | 125 | 127.5 | 546 | 500 | 395 | 675 | 715 | 1300 | 200 | 900 | 1533 | 6 | Ø22 |     |     | 594                          |
|             | 75          | 125 | 127.5 | 600 | 550 | 445 | 725 | 810 | 1350 | 200 | 900 | 1600 | 6 | Ø22 |     |     | 758                          |
| 65-125      | 4           | 100 | 37.5  | 320 | 290 | 235 | 415 | 388 | 735  | 100 | 520 | 893  | 4 | Ø14 | 80  | 65  | 102                          |
|             | 5.5         | 100 | 32.5  | 366 | 330 | 250 | 430 | 420 | 785  | 100 | 570 | 950  | 4 | Ø14 |     |     | 121                          |
|             | 7.5         | 100 | 32.5  | 366 | 330 | 250 | 430 | 420 | 785  | 100 | 570 | 950  | 4 | Ø14 |     |     | 129                          |
| 65-160      | 11          | 100 | 82.5  | 386 | 350 | 250 | 450 | 475 | 910  | 150 | 600 | 1094 | 4 | Ø19 | 80  | 65  | 196                          |
|             | 15          | 100 | 82.5  | 386 | 350 | 250 | 450 | 475 | 910  | 150 | 600 | 1094 | 4 | Ø19 |     |     | 211                          |

**NLF, NLX, NLN Pump set dimension table 2 pole**

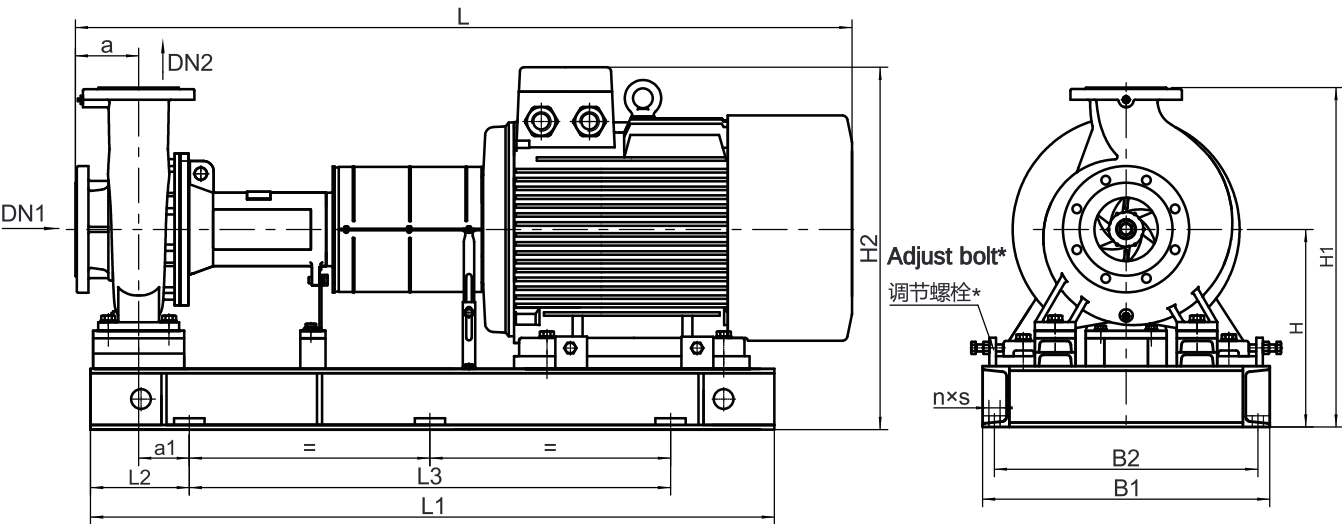
**NLF, NLX, NN 泵组L外形尺寸表 2极**

单位: mm

| Model<br>型号 | Power<br>功率 | a   | a1    | B1  | B2  | H   | H1  | H2  | L1   | L2  | L3   | L    | n | s   | DN1 | DN2 | Weight<br>(kg)<br>重量<br>(kg) |
|-------------|-------------|-----|-------|-----|-----|-----|-----|-----|------|-----|------|------|---|-----|-----|-----|------------------------------|
| 65-200      | 18.5        | 100 | 82.5  | 410 | 370 | 295 | 520 | 520 | 970  | 150 | 650  | 1138 | 4 | Ø19 | 80  | 65  | 240                          |
|             | 22          | 100 | 82.5  | 410 | 370 | 295 | 520 | 535 | 970  | 150 | 650  | 1175 | 4 | Ø19 |     |     | 294                          |
| 65-250      | 30          | 100 | 85    | 456 | 415 | 320 | 570 | 585 | 1200 | 180 | 800  | 1368 | 4 | Ø19 | 80  | 65  | 391                          |
|             | 37          | 100 | 85    | 456 | 415 | 320 | 570 | 585 | 1200 | 180 | 800  | 1368 | 4 | Ø19 |     |     | 411                          |
| 65-315      | 45          | 125 | 110   | 496 | 450 | 365 | 645 | 655 | 1200 | 200 | 800  | 1428 | 4 | Ø22 | 80  | 65  | 539                          |
|             | 55          | 125 | 110   | 546 | 500 | 395 | 675 | 715 | 1300 | 200 | 900  | 1533 | 6 | Ø22 |     |     | 588                          |
|             | 75          | 125 | 125   | 600 | 550 | 445 | 725 | 810 | 1400 | 220 | 950  | 1600 | 6 | Ø22 |     |     | 763                          |
|             | 90          | 125 | 125   | 600 | 550 | 445 | 725 | 810 | 1400 | 220 | 950  | 1650 | 6 | Ø22 |     |     | 783                          |
|             | 110         | 125 | 125   | 690 | 640 | 480 | 760 | 915 | 1500 | 220 | 1050 | 1825 | 6 | Ø22 |     |     | 1213                         |
| 80-160      | 11          | 125 | 82.5  | 410 | 370 | 295 | 520 | 520 | 970  | 150 | 650  | 1119 | 4 | Ø19 | 100 | 80  | 210                          |
|             | 15          | 125 | 82.5  | 410 | 370 | 295 | 520 | 520 | 970  | 150 | 650  | 1119 | 4 | Ø19 |     |     | 225                          |
|             | 18.5        | 125 | 82.5  | 410 | 370 | 295 | 520 | 520 | 970  | 150 | 650  | 1163 | 4 | Ø19 |     |     | 233                          |
| 80-200      | 22          | 125 | 112.5 | 410 | 370 | 315 | 565 | 555 | 1080 | 180 | 700  | 1310 | 4 | Ø19 | 100 | 80  | 316                          |
|             | 30          | 125 | 112.5 | 456 | 415 | 335 | 585 | 600 | 1150 | 180 | 760  | 1393 | 4 | Ø19 |     |     | 383                          |
|             | 37          | 125 | 112.5 | 456 | 415 | 335 | 585 | 600 | 1150 | 180 | 760  | 1393 | 4 | Ø19 |     |     | 403                          |
| 80-250      | 45          | 125 | 110   | 496 | 450 | 365 | 645 | 655 | 1200 | 200 | 800  | 1428 | 4 | Ø22 | 100 | 80  | 526                          |
|             | 55          | 125 | 110   | 546 | 500 | 395 | 675 | 715 | 1300 | 200 | 900  | 1533 | 6 | Ø22 |     |     | 580                          |
|             | 75          | 125 | 110   | 600 | 550 | 445 | 725 | 810 | 1350 | 200 | 900  | 1600 | 6 | Ø22 |     |     | 752                          |
| 80-315      | 90          | 125 | 125   | 600 | 550 | 445 | 760 | 810 | 1500 | 220 | 1050 | 1709 | 6 | Ø22 | 100 | 80  | 832                          |
|             | 110         | 125 | 125   | 690 | 640 | 480 | 795 | 915 | 1650 | 220 | 1200 | 1885 | 6 | Ø22 |     |     | 1293                         |
|             | 132         | 125 | 125   | 690 | 640 | 480 | 795 | 915 | 1650 | 220 | 1200 | 1995 | 6 | Ø22 |     |     | 1353                         |
|             | 160         | 125 | 125   | 690 | 640 | 480 | 795 | 915 | 1650 | 220 | 1200 | 1994 | 6 | Ø22 |     |     | 1468                         |
| 100-160     | 15          | 125 | 85    | 416 | 380 | 320 | 600 | 545 | 1100 | 180 | 750  | 1229 | 4 | Ø19 | 125 | 100 | 254                          |
|             | 18.5        | 125 | 85    | 416 | 380 | 320 | 600 | 545 | 1150 | 180 | 750  | 1273 | 4 | Ø19 |     |     | 262                          |
|             | 22          | 125 | 85    | 416 | 380 | 320 | 600 | 560 | 1150 | 180 | 750  | 1311 | 4 | Ø19 |     |     | 318                          |
|             | 30          | 125 | 85    | 456 | 415 | 320 | 600 | 585 | 1200 | 180 | 800  | 1393 | 4 | Ø19 |     |     | 386                          |
| 100-200     | 37          | 125 | 85    | 456 | 415 | 320 | 600 | 585 | 1200 | 180 | 800  | 1393 | 4 | Ø19 | 125 | 100 | 418                          |
|             | 45          | 125 | 105   | 486 | 440 | 365 | 645 | 655 | 1250 | 200 | 850  | 1428 | 4 | Ø22 |     |     | 527                          |
|             | 55          | 125 | 105   | 546 | 500 | 390 | 670 | 710 | 1350 | 200 | 900  | 1533 | 6 | Ø22 |     |     | 581                          |
| 100-250     | 75          | 140 | 125   | 600 | 550 | 445 | 725 | 810 | 1400 | 220 | 950  | 1610 | 6 | Ø22 | 125 | 100 | 772                          |
|             | 90          | 140 | 125   | 600 | 550 | 445 | 725 | 810 | 1400 | 220 | 950  | 1665 | 6 | Ø22 |     |     | 792                          |
|             | 110         | 140 | 125   | 690 | 640 | 480 | 760 | 915 | 1500 | 220 | 1050 | 1840 | 6 | Ø22 |     |     | 1222                         |
| 125-200     | 45          | 140 | 105   | 546 | 500 | 390 | 705 | 680 | 1250 | 200 | 850  | 1443 | 4 | Ø22 | 150 | 125 | 546                          |
|             | 55          | 140 | 105   | 546 | 500 | 390 | 705 | 710 | 1350 | 200 | 900  | 1550 | 6 | Ø22 |     |     | 589                          |
|             | 75          | 140 | 125   | 600 | 550 | 445 | 760 | 810 | 1400 | 220 | 950  | 1615 | 6 | Ø22 |     |     | 778                          |
|             | 90          | 140 | 125   | 600 | 550 | 445 | 760 | 810 | 1400 | 220 | 950  | 1665 | 6 | Ø22 |     |     | 798                          |
| 125-250     | 110         | 140 | 125   | 690 | 640 | 480 | 835 | 915 | 1650 | 220 | 1200 | 1899 | 6 | Ø22 | 150 | 125 | 1289                         |
|             | 132         | 140 | 125   | 690 | 640 | 480 | 835 | 915 | 1650 | 220 | 1200 | 2009 | 6 | Ø22 |     |     | 1349                         |
|             | 160         | 140 | 125   | 690 | 640 | 480 | 835 | 915 | 1650 | 220 | 1200 | 2009 | 6 | Ø22 |     |     | 1464                         |

NLF, NLX, NLN Pump set dimensions

NLF, NLX, NLN 泵组外形尺寸图



\*Description: The pump is equipped with a motor with a power of 55kW or above and an adjusting bolt, which is used to adjust the concentricity of the coupling

\*说明：泵配套电机功率55kW及以上带调节螺栓,用于调节联轴器的同心度

NLF, NLX, NLN Pump set dimension table 2 pole

NLF, NLX, NN 泵组L外形尺寸表 4极

单位：mm

| Model<br>型号 | Power<br>功率 | a   | a1  | B1  | B2  | H   | H1  | H2  | L1   | L2  | L3   | L    | n | s   | DN1 | DN2 | Weight<br>(kg)<br>重量<br>(kg) |
|-------------|-------------|-----|-----|-----|-----|-----|-----|-----|------|-----|------|------|---|-----|-----|-----|------------------------------|
| 80-400      | 18.5        | 125 | 95  | 496 | 450 | 420 | 775 | 660 | 1200 | 180 | 800  | 1370 | 4 | Ø22 | 100 | 80  | 406                          |
|             | 22          | 125 | 95  | 496 | 450 | 420 | 775 | 660 | 1200 | 180 | 800  | 1408 | 4 | Ø22 |     |     | 427                          |
|             | 30          | 125 | 105 | 546 | 500 | 420 | 775 | 685 | 1250 | 200 | 850  | 1453 | 4 | Ø22 |     |     | 516                          |
|             | 37          | 125 | 120 | 546 | 500 | 420 | 775 | 710 | 1300 | 200 | 850  | 1495 | 4 | Ø22 |     |     | 546                          |
| 100-315     | 18.5        | 140 | 85  | 446 | 400 | 390 | 705 | 630 | 1200 | 180 | 800  | 1326 | 4 | Ø22 | 125 | 100 | 378                          |
|             | 22          | 140 | 85  | 446 | 400 | 390 | 705 | 630 | 1200 | 180 | 800  | 1363 | 4 | Ø22 |     |     | 398                          |
|             | 30          | 140 | 85  | 446 | 400 | 390 | 705 | 655 | 1200 | 180 | 800  | 1408 | 4 | Ø22 |     |     | 485                          |
| 100-400     | 37          | 140 | 85  | 546 | 500 | 440 | 795 | 730 | 1350 | 200 | 900  | 1507 | 4 | Ø22 | 125 | 100 | 609                          |
|             | 45          | 140 | 85  | 546 | 500 | 440 | 795 | 730 | 1350 | 200 | 900  | 1532 | 4 | Ø22 |     |     | 659                          |
| 125-315     | 30          | 140 | 65  | 546 | 500 | 420 | 775 | 685 | 1300 | 180 | 900  | 1467 | 4 | Ø22 | 150 | 125 | 525                          |
|             | 37          | 140 | 85  | 546 | 500 | 440 | 795 | 730 | 1350 | 200 | 900  | 1507 | 4 | Ø22 |     |     | 560                          |
| 125-400     | 45          | 140 | 85  | 546 | 500 | 475 | 875 | 765 | 1350 | 200 | 900  | 1535 | 4 | Ø22 | 150 | 125 | 694                          |
|             | 55          | 140 | 105 | 600 | 550 | 475 | 875 | 795 | 1400 | 220 | 950  | 1610 | 6 | Ø22 |     |     | 764                          |
|             | 75          | 140 | 105 | 600 | 550 | 475 | 875 | 840 | 1500 | 220 | 1050 | 1680 | 6 | Ø22 |     |     | 917                          |
| 150-200     | 11          | 160 | 85  | 596 | 550 | 420 | 820 | 645 | 1150 | 200 | 750  | 1264 | 4 | Ø19 | 200 | 150 | 344                          |
|             | 15          | 160 | 85  | 596 | 550 | 420 | 820 | 645 | 1150 | 200 | 750  | 1308 | 4 | Ø19 |     |     | 364                          |
| 150-250     | 18.5        | 160 | 65  | 546 | 500 | 420 | 820 | 660 | 1250 | 180 | 850  | 1406 | 4 | Ø22 | 200 | 150 | 435                          |
|             | 22          | 160 | 65  | 546 | 500 | 420 | 820 | 660 | 1250 | 180 | 850  | 1444 | 4 | Ø22 |     |     | 455                          |
|             | 30          | 160 | 65  | 546 | 500 | 420 | 820 | 685 | 1300 | 180 | 900  | 1488 | 4 | Ø22 |     |     | 532                          |
| 150-315     | 37          | 160 | 85  | 600 | 550 | 440 | 840 | 730 | 1350 | 200 | 900  | 1530 | 4 | Ø22 | 200 | 150 | 607                          |
|             | 45          | 160 | 85  | 600 | 550 | 440 | 840 | 730 | 1350 | 200 | 900  | 1555 | 4 | Ø22 |     |     | 657                          |
|             | 55          | 160 | 105 | 600 | 550 | 440 | 840 | 760 | 1400 | 220 | 950  | 1630 | 6 | Ø22 |     |     | 736                          |
| 150-400     | 75          | 160 | 105 | 600 | 550 | 475 | 925 | 840 | 1500 | 220 | 1050 | 1700 | 6 | Ø22 | 200 | 150 | 918                          |
|             | 90          | 160 | 105 | 600 | 550 | 475 | 925 | 840 | 1500 | 220 | 1050 | 1750 | 6 | Ø22 |     |     | 996                          |

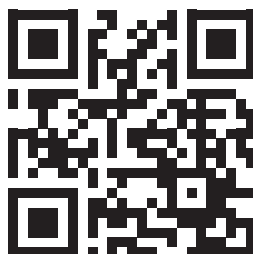
# Notes

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