

NISO  
NIS  
NISF

50Hz

End Suction Centrifugal Pump

Nanfang Zhongjin Environment Co.,Ltd.

CNP Headquarter

Address: Renhe Town, Hangzhou, China

Post code: 311107

Tel: +86 571 88637351, +86 571 86397827

Fax: +86 571 86397809

E-mail: [info@nanfang-pump.com](mailto:info@nanfang-pump.com)

<http://www.cnppump.com>



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Pumping Water Pumping Honor





## Company profile

Founded in 1991, Nanfang Zhongjin Environment Co.,Ltd. (hereinafter referred to as CNP) has been listed on the Shenzhen Stock Exchange on 9th December 2010; Stock name: CNP; Stock code: 300145.

As the first enterprise specializing in the research and large-scale production of stainless steel stamping welded centrifugal pump in China, CNP is currently the professional manufacturer with the highest volume of production and marketing in that industry. It ranks first in the country in terms of product scope, sales volume, and production quality. The company has set up a complete network of marketing services to meet the requirements of overseas markets as well as domestic needs. The products have seen a wide range of application in the area of pressurization, industry, living water, cycling of air-conditioning water, heat supply, fire extinguishing system, pumping of underground water, treatment of sewage and waste water, chemical industry and desalination of sea water etc.

CNP has now entered into the fast track of development and has taken a major step forward in forging China Strong Pump Enterprise and World's famous brand in the Pump Industry. In order to better meet the client's needs and requirements for expansion, it has set up a wide network of selling and service, as well as offices and service centers in major cities in China, which are aimed at providing timely and effective services for our clients. Meanwhile, our company has successfully penetrated into the world market by forging a good business relationship with more than 50 countries and regions in the Europe, Northern American, and Southeast Asia etc.

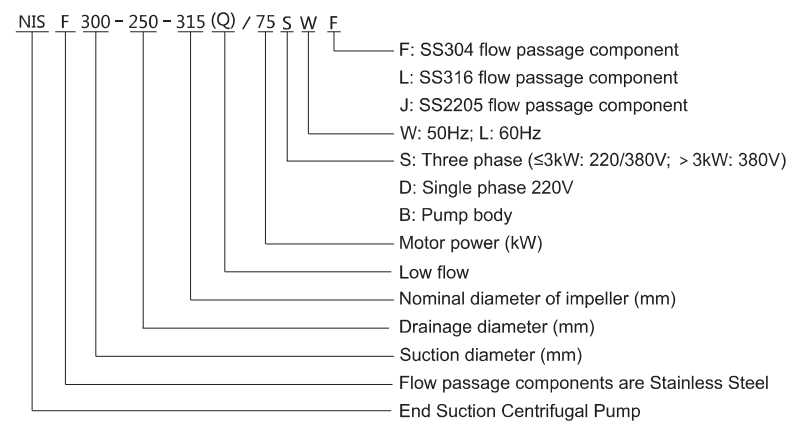
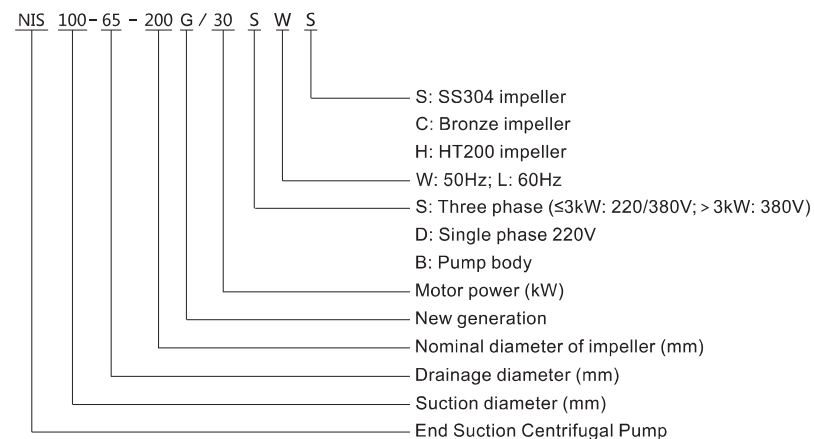
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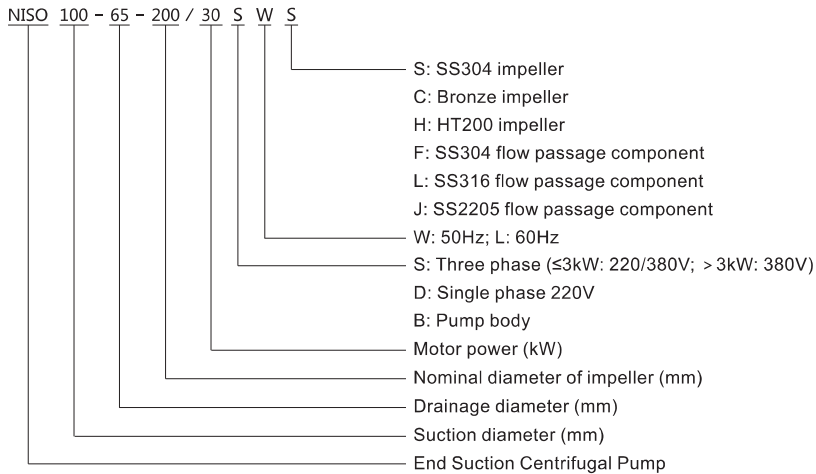
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## Model definition



## Model definition



## Minimum inlet pressure NPSH

In case that the pressure in pump is lower than the steam pressure used to convey liquid, the cavitations will occur. To avoid cavitations, a minimum pressure at the inlet side of the pump shall be guaranteed. The maximum suction can be calculated with the following formula:

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

H—Maximum suction head(m)

$P_b$ —Atmosphere pressure(bar)

In a closed system,  $P_b$  means system pressure(bar)

NPSH—Net positive suction head(m)

It can be read from the point of Max. flow rate shown on NPSH curve.

$H_f$ —Pipeline loss at the inlet(m)

It is in accordance with the pipeline possible Max. flow.

$H_v$ —Steam pressure(m)

It depends on liquid temperature and steam pressure value.

$H_s$ —Safety margin(m)

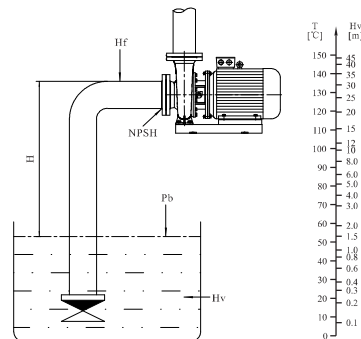
Minimum 0.5m delivery head.

If the calculated result H is negative, the pump may run under the Max. suction head H. In case the calculated result H is negative, a delivery head of Min. inlet pressure is necessary.

NOTE: Normally, the above calculation will not be done.

H is calculated in the following conditions:

1. The liquid temperature is comparatively higher;
2. Liquid flow exceeds rated value;
3. Suction head is comparatively large or inlet pipeline long;
4. System pressure is too low;
5. Bad inlet condition.



## Applications

- Clean, thin, non-corrosive, non-flammable or non-explosive liquid without grain or fiber.
- Water supply system
- HVAC system
- Booster and constant water supply system
- Fire-fighting and splitting system
- Irrigation and farming
- Industrial cooling and heat circulation system
- Industrial transferring and drainage system

## Product structure

- Non-self-priming, single stage, single suction, horizontal axial suction and radical discharge, pump body is fixed by base.
- Standard wear-resistant mechanical seal.
- TEFC motor, size complies to IEC standard.
- NISO pump use bearing cradle, which can orientate bearing, prevent from radical vibration, improve the rigidity of rotary part.
- NISO pump integral pump shaft, use deep groove grease lubricated bearing.
- NISO pump use semi-flexible coupling to connect pump and motor.
- NISO pump dimension conforms to ISO2858 standard.
- NIS, NISF series pump are coupled with extension shaft structure.
- Inlet and outlet flange and pump body of cast iron pump conform to standard of PN16 in GB/T17241.6 (ISO7005-2); Inlet and outlet flange and pump body of Stainless Steel pump conform to standard of PN16 in GB/T9113 (ISO7005-1).

## Performance parameters

- Max. Flow: 1200 m<sup>3</sup>/h
- Max. Head: 160 m
- Max. Working pressure: 16 bar
- Max. Inlet pressure: 6 bar
- Max. Power: 200kW
- Liquid temperature: -15°C~ 110°C
- Inlet and outlet diameter:
  - Inlet diameter: DN50~DN300
  - Outlet diameter: DN32~DN250

## Features

- Adopt Pull-back structure, avoid dismantling pump body and pipeline when repairing.
- All NISO pump only use 4 types of pump shafts and bearing cover, making many parts exchangeable.
- Designs of NIS, NISO, NISF series impellers are optimized, inlet is enlarged, no whirlpool, deduct water pump NPSH efficiently, which makes pump work stable with little noise. Performance curve is flat, flow range is wide, performance is similar with international pump industry peers.
- NIS\*G, NIS\*(Q) series pump are designed according to newest standard in GB/T5662, whose performance curve are steeper than NIS, NISO, NISF series. Flow range conforms to requirements, use excellent hydraulic model and CFD optimization, high efficiency, reasonable head spread, compact structure, easy maintenance.
- NIS, NISF pumps are small, compact and easy to install.
- Main spare parts like impeller, pump body, pump head of NIS\*G, NIS\*(Q) series pump are cast iron. But can be customized according to customers' requirement.

## Curve conditions

- Following conditions are suitable for the performance curves shown above.
- All curves are based on the measured values of motor 3×380V, 50Hz: under the constant speed of 2900 rpm, 1450rpm or 1480rpm; 60Hz: under the constant speed of 3500rpm, 1750rpm.
- Curve tolerance in conformity with ISO9906:2012, Grade 3B.
- Measurement is done with 20°C air-free water, without impurities.
- The operation of pump shall refer to the performance region indicated by the thickened curve to prevent overheating due to too small flow rate or overload of motor due to too large flow rate.
- If the thickness and density of the pumped liquid is different from water, the motor power should be adjusted.

## Working conditions

### Relative humidity of pump

● The pump is specifically designed for installation in non-corrosive and non-explosive environments with a relative humidity of no more than 95%.

### Ambient humidity and altitude

● Ambient humidity and installation altitude are important factors influencing motor service life as they also affect the life of bearings and insulation systems.

● The installation altitude is the height at which the installation location is above sea level. If the ambient temperature exceeds the recommended maximum value, or if the installation height exceeds the recommended maximum altitude, air cooling effect may be poor due to low density and the motor shall not be operated at full capacity. In this case, choose a motor with a higher output power.

## Motor parameter

Standard motor

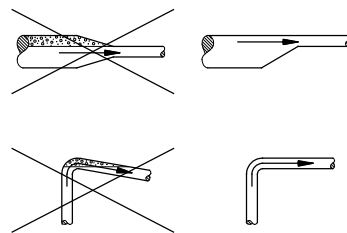
- TEFC motor, size complies to GB/28575 standard.
- Standard configuration: 2-pole motor and 4-pole motor.

## Pipeline Installation requirements

● Pump casing must not be subjected to pipe pressure when installing the pipe.

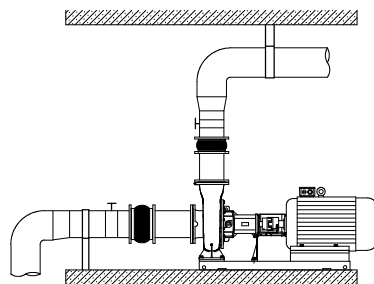
● The suction and drain pipes must be sized appropriately and the inlet pressure of the pump needs to be considered.

● Install the pipe to avoid air blockage, especially on the inlet side of the pump. See picture below.

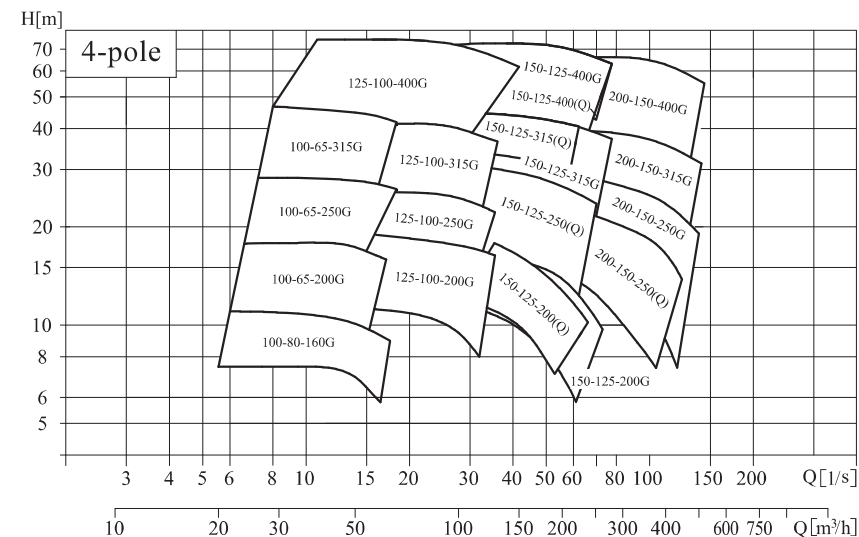
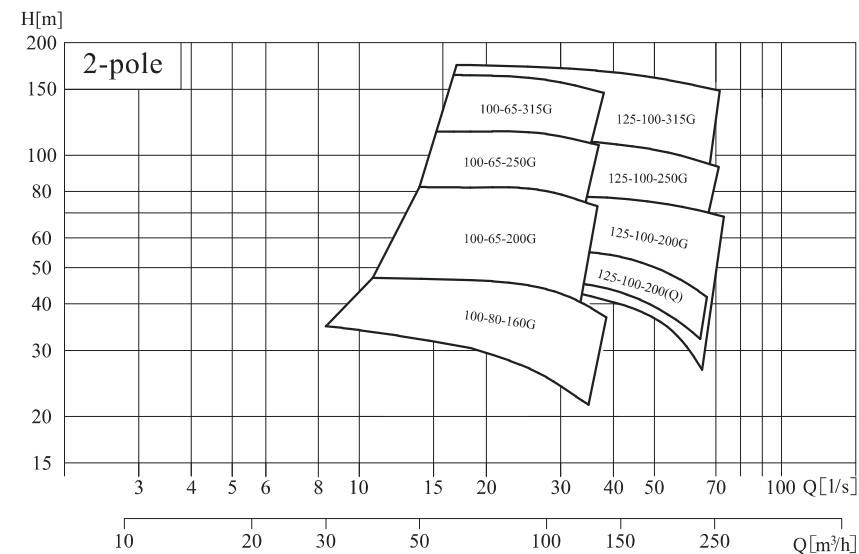


● Install an isolation valve on each end of the pump so that the system does not have to be drained when cleaning or repairing the pump.

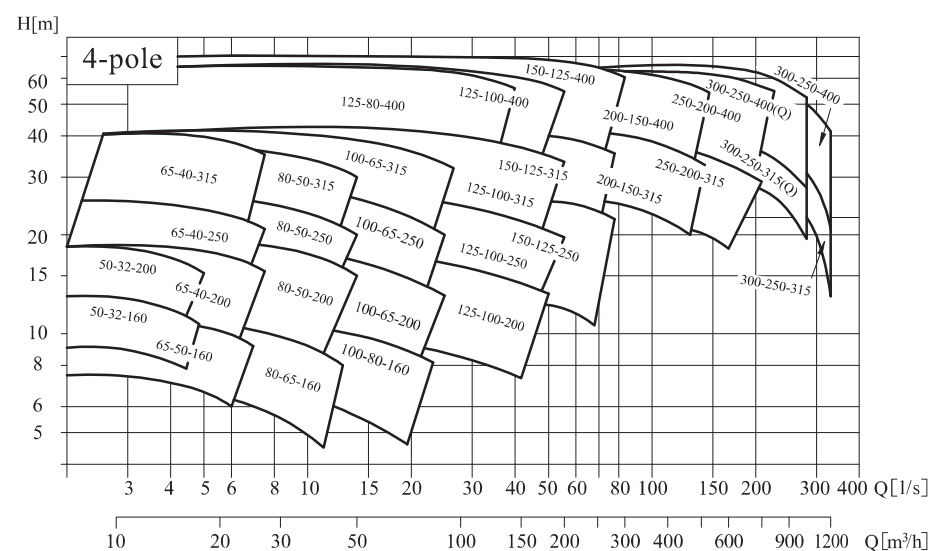
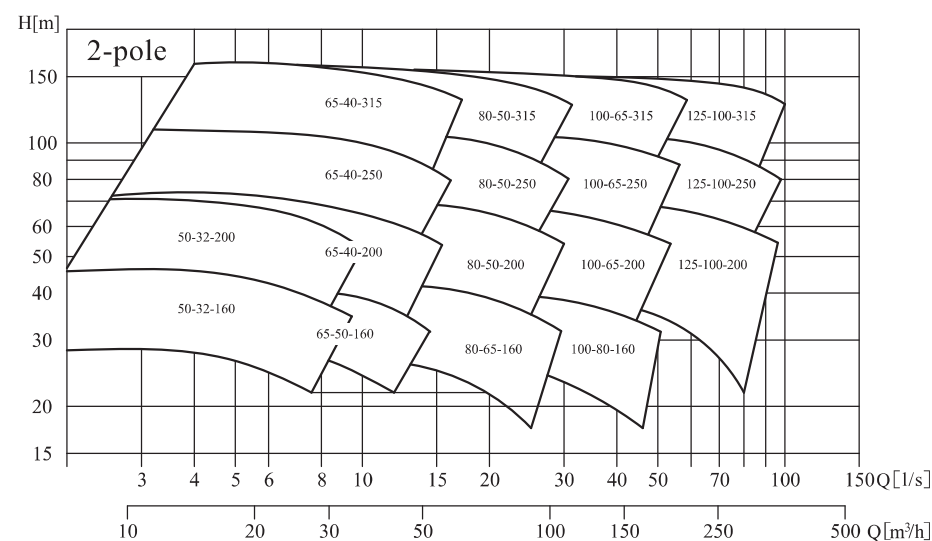
● Ensure that the pipe is sufficiently supported (inlet and outlet side) as close as possible to the pump. The butt flange should be attached to pump flange without being subjected to tensile stresses, as the presence of tensile stress can damage the pump.



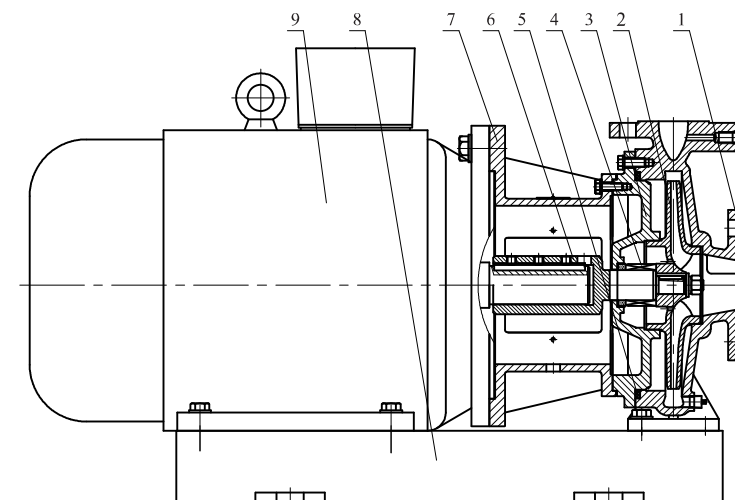
## NIS\*G,NIS\*(Q) Spectral spectrum



## NISO,NIS,NISF Spectral spectrum



## NIS,NISF Sectional drawing

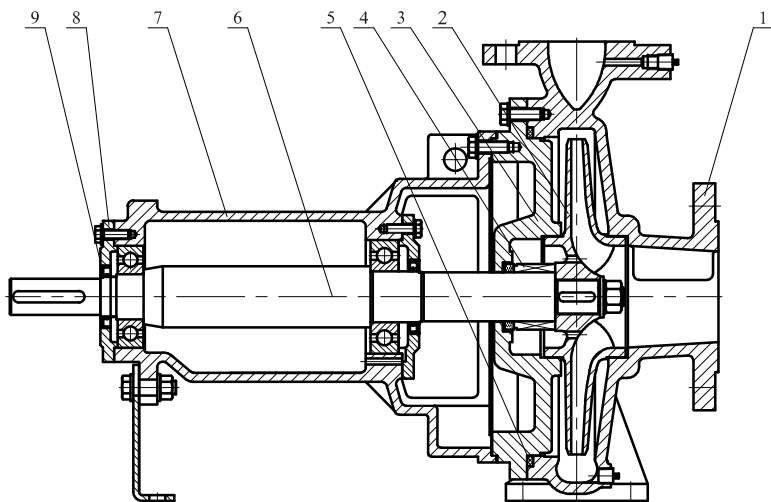


## Material list of NIS,NISF

| No. | Parts           | Material               | Code/AISI/ASTM    |
|-----|-----------------|------------------------|-------------------|
| 1   | Pump body       | QT500-7/ZG07Cr19Ni9    | ASTM80-55/AISI304 |
| 2   | Impeller        | HT200/ZG07Cr19Ni9      | ASTM25B/AISI304   |
| 3   | Pump cover      | HT200/ZG07Cr19Ni9      | ASTM25B/AISI304   |
| 4   | Mechanical seal | Carbon/Silicon Carbide |                   |
| 5   | O-ring          | NBR                    |                   |
| 6   | Shaft           | 20Cr13/06Cr19Ni10      | AISI420/AISI304   |
| 7   | Pump head       | HT200                  | ASTM25B           |
| 8   | Base            | Q235-A                 | AISIA570          |
| 9   | Motor           |                        |                   |

Note: Standard material of flow passage components of NIS\*G,NIS\*(Q) are cast iron, Stainless Steel need to be specially ordered.

## NISO Sectional drawing



## Material list of NISO

| No. | Parts           | Material               | Code/AISI/ASTM    |
|-----|-----------------|------------------------|-------------------|
| 1   | Pump body       | QT500-7/ZG07Cr19Ni9    | ASTM80-55/AISI304 |
| 2   | Impeller        | HT200/ZG07Cr19Ni9      | ASTM25B/AISI304   |
| 3   | Pump cover      | HT200/ZG07Cr19Ni9      | ASTM25B/AISI304   |
| 4   | Mechanical seal | Carbon/Silicon Carbide |                   |
| 5   | O-ring          | NBR                    |                   |
| 6   | Shaft           | 20Cr13/06Cr19Ni10      | AISI420/AISI304   |
| 7   | Bearing housing | HT200                  | ASTM25B           |
| 8   | Bearing cover   | HT200                  | ASTM25B           |
| 9   | Oil seal        | NBR                    |                   |

## NIS\*G,NIS\*(Q) Product range

| 2-pole |                      |             |          |                       |               |              |
|--------|----------------------|-------------|----------|-----------------------|---------------|--------------|
| No.    | Model                | Q<br>[m³/h] | H<br>[m] | Flow range<br>[r/min] | Motor<br>[kW] | n<br>[r/min] |
| 1      | NIS100-65-200G/18.5  | 100         | 42       | 40~120                | 18.5          | 2950         |
| 2      | NIS100-65-200G/22    |             | 51       |                       | 22            |              |
| 3      | NIS100-65-200G/30    |             | 67       |                       | 30            |              |
| 4      | NIS100-65-200G/37    |             | 80       |                       | 37            |              |
| 5      | NIS100-65-250G/45    |             | 103      |                       | 45            |              |
| 6      | NIS100-65-250G/55    |             | 116      |                       | 55            |              |
| 7      | NIS100-65-315G/75    |             | 140      |                       | 75            |              |
| 8      | NIS100-65-315G/90    |             | 160      |                       | 90            |              |
| 9      | NIS100-80-160G/11    |             | 26       |                       | 11            |              |
| 10     | NIS100-80-160G/15    |             | 36       |                       | 15            |              |
| 11     | NIS100-80-160G/18.5  | 160         | 44       | 60~200                | 18.5          |              |
| 12     | NIS125-100-200(Q)/30 |             | 43       |                       | 30            |              |
| 13     | NIS125-100-200(Q)/37 |             | 52       |                       | 37            |              |
| 14     | NIS125-100-200G/30   |             | 35       | 80~240                | 30            |              |
| 15     | NIS125-100-200G/37   |             | 45       |                       | 37            |              |
| 16     | NIS125-100-200G/45   |             | 54       |                       | 45            |              |
| 17     | NIS125-100-200G/55   |             | 68       |                       | 55            |              |
| 18     | NIS125-100-200G/75   | 200         | 74       |                       | 75            |              |
| 19     | NIS125-100-250G/75   |             | 86       |                       | 75            |              |
| 20     | NIS125-100-250G/90   |             | 102      |                       | 90            |              |
| 21     | NIS125-100-315G/110  |             | 128      |                       | 110           |              |
| 22     | NIS125-100-315G/132  |             | 150      |                       | 132           |              |
| 23     | NIS125-100-315G/160  |             | 160      |                       | 160           |              |

## NIS\*G,NIS\*(Q) Product range

4-pole

| No. | Model                 | Q<br>[m³/h] | H<br>[m] | Flow range<br>[r/min] | Motor<br>[kW] | n<br>[r/min] |
|-----|-----------------------|-------------|----------|-----------------------|---------------|--------------|
| 1   | NIS100-65-200G/3      | 50          | 13       | 20~60                 | 3             | 1450         |
| 2   | NIS100-65-200G/4      |             | 17.5     |                       | 4             |              |
| 3   | NIS100-65-250G/5.5    |             | 24       |                       | 5.5           |              |
| 4   | NIS100-65-250G/7.5    |             | 28       |                       | 7.5           |              |
| 5   | NIS100-65-315G/11     |             | 40       |                       | 11            | 1480         |
| 6   | NIS100-65-315G/15     |             | 45       |                       | 15            |              |
| 7   | NIS100-80-160G/1.5    |             | 7        |                       | 1.5           |              |
| 8   | NIS100-80-160G/2.2    |             | 10       |                       | 2.2           |              |
| 9   | NIS125-100-200G/4     | 100         | 9.5      | 40~120                | 4             | 1450         |
| 10  | NIS125-100-200G/5.5   |             | 13       |                       | 5.5           |              |
| 11  | NIS125-100-200G/7.5   |             | 18       |                       | 7.5           |              |
| 12  | NIS125-100-250G/11    |             | 25       |                       | 11            |              |
| 13  | NIS125-100-315G/15    |             | 33       |                       | 15            | 1480         |
| 14  | NIS125-100-315G/18.5  |             | 40       |                       | 18.5          |              |
| 15  | NIS125-100-400G/30    |             | 55       |                       | 30            |              |
| 16  | NIS125-100-400G/37    |             | 68       |                       | 37            |              |
| 17  | NIS125-100-400G/45    |             | 72       |                       | 45            |              |
| 18  | NIS150-125-200(Q)/5.5 | 160         | 8.5      | 60~200                | 5.5           | 1450         |
| 19  | NIS150-125-200(Q)/7.5 |             | 12       |                       | 7.5           |              |
| 20  | NIS150-125-200(Q)/11  |             | 16       |                       | 11            | 1480         |
| 21  | NIS(F)50-125-200G/5.5 | 200         | 7        | 80~240                | 5.5           | 1450         |
| 22  | NIS(F)50-125-200G/7.5 |             | 10       |                       | 7.5           |              |
| 23  | NIS(F)50-125-200G/11  |             | 14       |                       | 11            |              |
| 24  | NIS150-125-250G/15    |             | 18       |                       | 15            | 1480         |
| 25  | NIS150-125-250G/18.5  |             | 23       |                       | 18.5          |              |
| 26  | NIS150-125-250G/22    |             | 27       |                       | 22            |              |

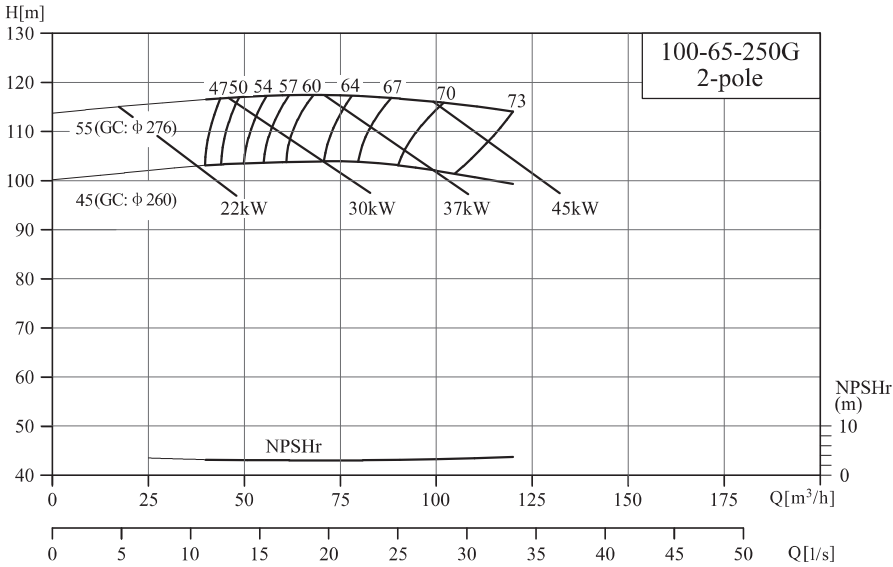
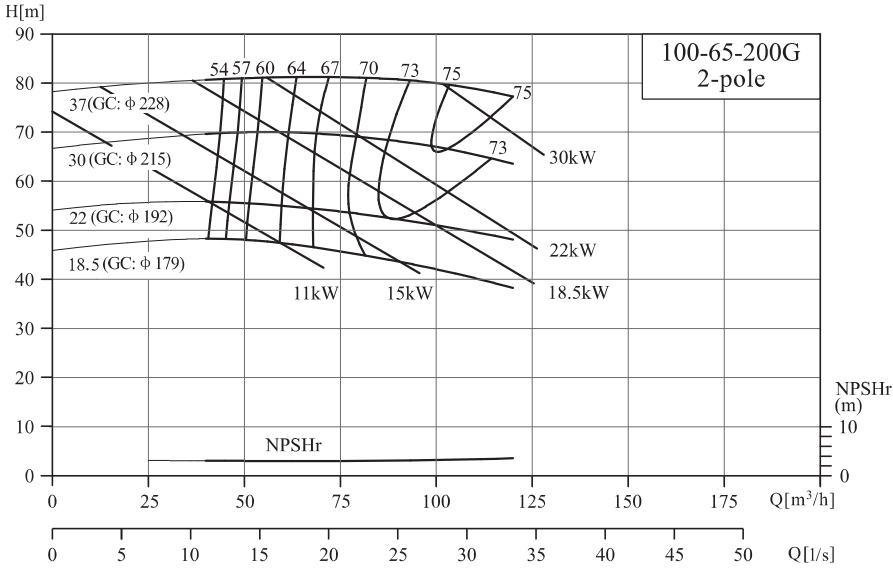
## NIS\*G,NIS\*(Q) Product range

4-pole

| No. | Model                   | Q<br>[m³/h] | H<br>[m] | Flow range<br>[r/min] | Motor<br>[kW] | n<br>[r/min] |
|-----|-------------------------|-------------|----------|-----------------------|---------------|--------------|
| 27  | NIS150-125-315(Q)/22    | 160         | 32       | 60~200                | 22            | 1480         |
| 28  | NIS150-125-315(Q)/30    |             | 43       |                       | 30            |              |
| 29  | NIS150-125-315G/30      | 200         | 36       | 80~240                | 30            |              |
| 30  | NIS150-125-315G/37      |             | 42       |                       | 37            |              |
| 31  | NIS150-125-400(Q)/37    | 160         | 50       | 60~200                | 37            |              |
| 32  | NIS150-125-400G/45      | 200         | 54       | 80~240                | 45            |              |
| 33  | NIS150-125-400G/55      |             | 64       |                       | 55            |              |
| 34  | NIS150-125-400G/75      |             | 71       |                       | 75            |              |
| 35  | NIS200-150-250(Q)/11    | 300         | 9.5      | 120~360               | 11            | 1480         |
| 36  | NIS200-150-250(Q)/15    |             | 12.5     |                       | 15            |              |
| 37  | NIS200-150-250(Q)/18.5  |             | 16       |                       | 18.5          |              |
| 38  | NIS200-150-250(Q)/22    |             | 20       |                       | 22            |              |
| 39  | NIS(F)200-150-250G/15   | 400         | 9        | 160~480               | 15            |              |
| 40  | NIS(F)200-150-250G/18.5 |             | 12       |                       | 18.5          |              |
| 41  | NIS(F)200-150-250G/22   |             | 15.5     |                       | 22            |              |
| 42  | NIS(F)200-150-250G/30   |             | 20       |                       | 30            |              |
| 43  | NIS200-150-315G/37      |             | 24       |                       | 37            |              |
| 44  | NIS200-150-315G/45      |             | 29       |                       | 45            |              |
| 45  | NIS200-150-315G/55      |             | 36       |                       | 55            |              |
| 46  | NIS200-150-400G/75      |             | 47       |                       | 75            |              |
| 47  | NIS200-150-400G/90      |             | 56       |                       | 90            |              |
| 48  | NIS200-150-400G/110     |             | 63       |                       | 110           |              |

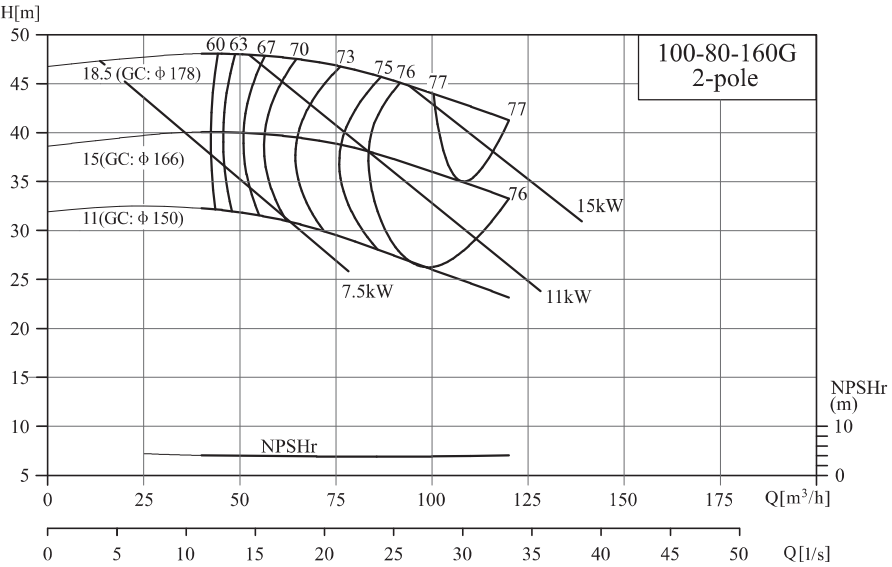
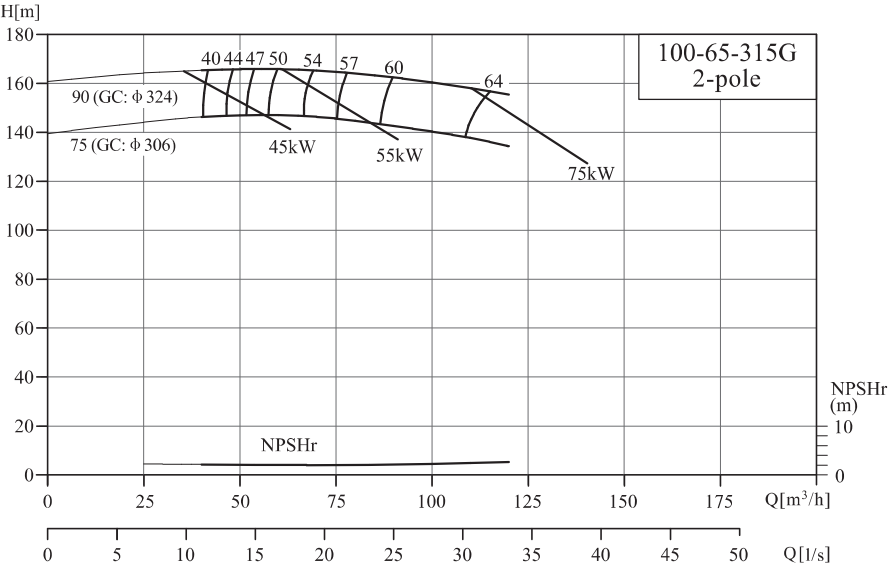
Performance curve

NIS100-65-200G/100-65-250G



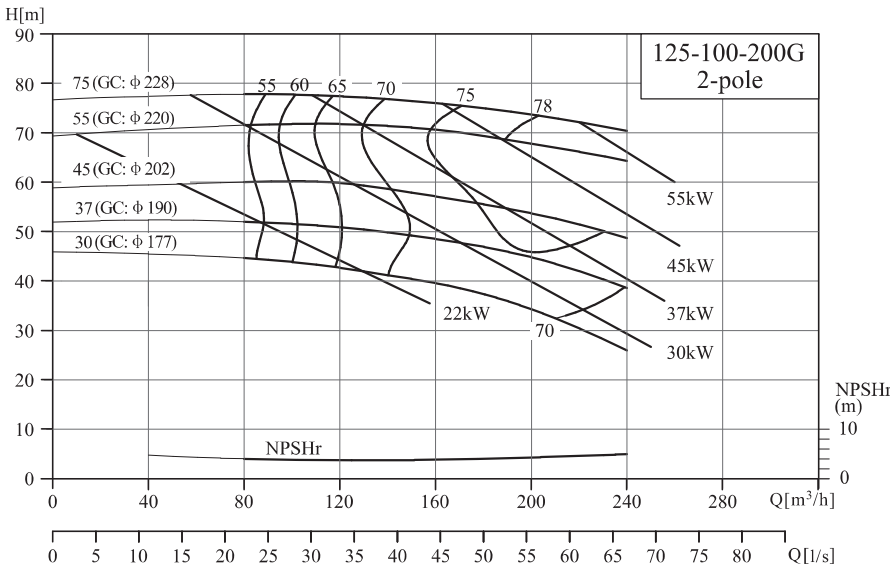
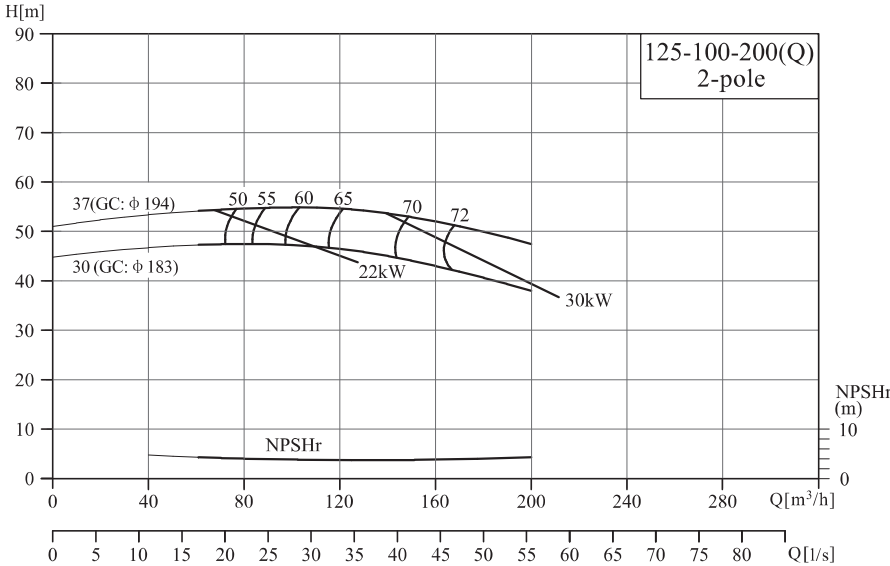
Performance curve

NIS100-65-315G/100-80-160G



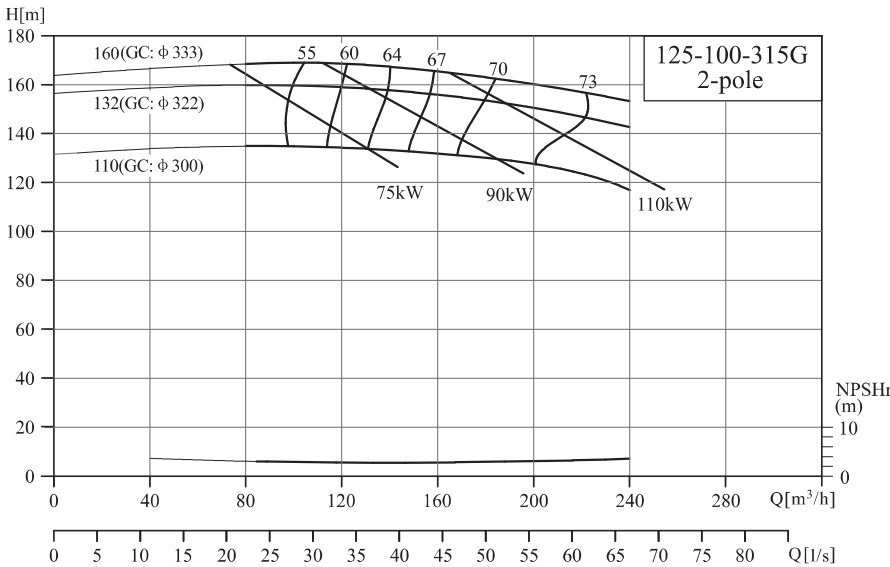
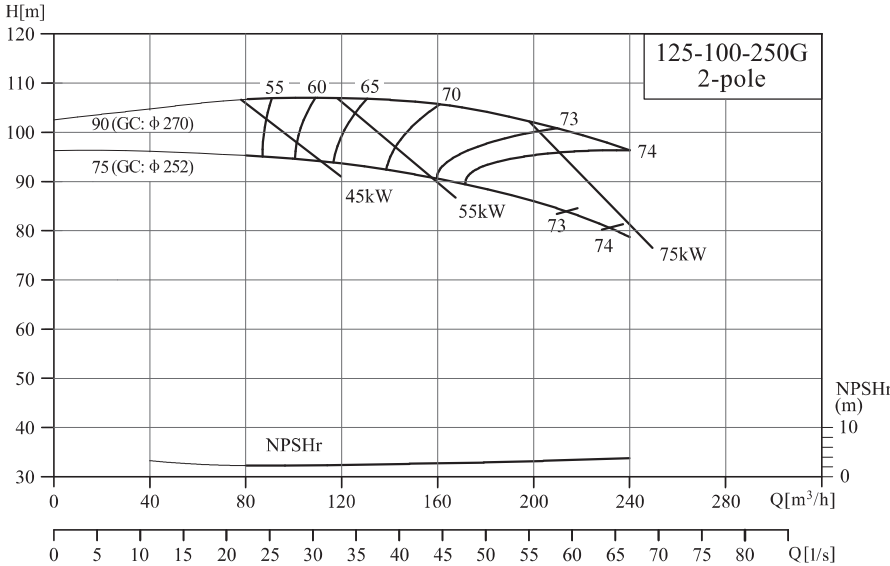
Performance curve

NIS125-100-200(Q)/125-100-200G



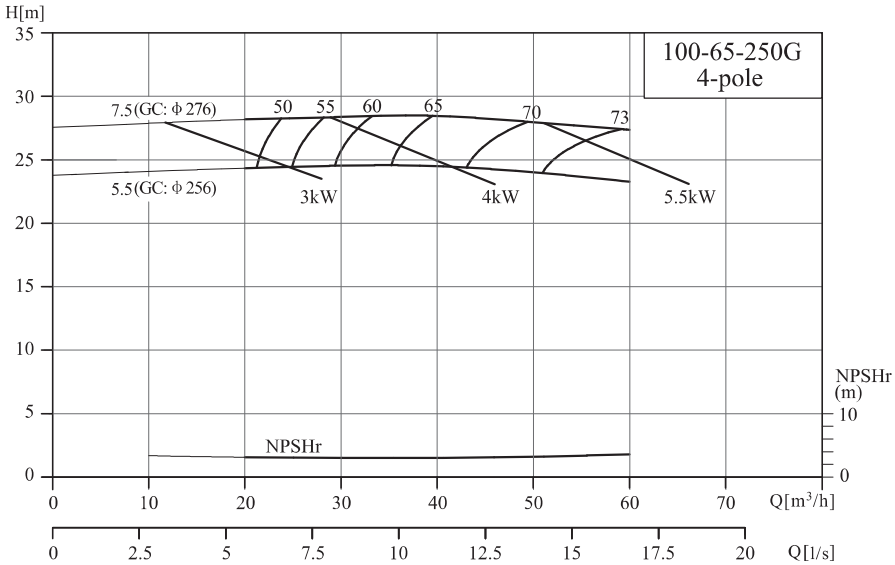
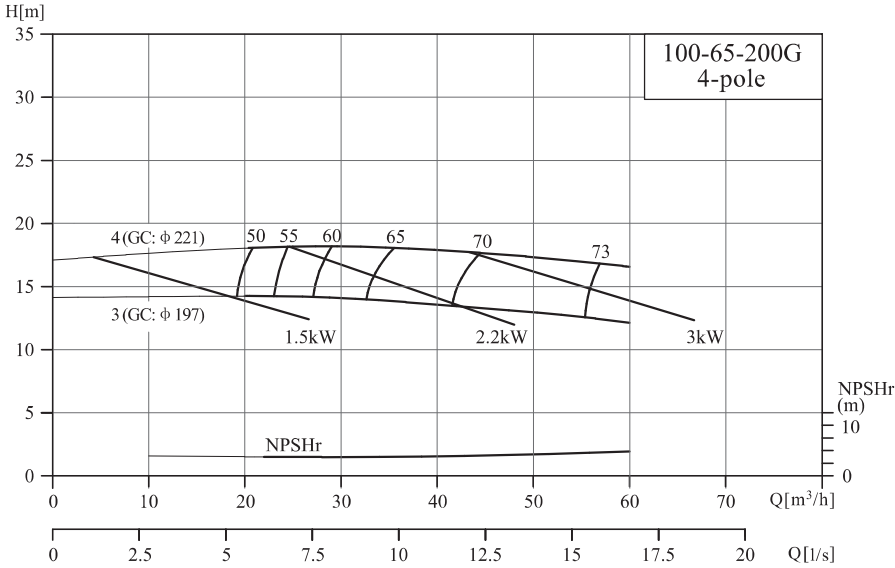
Performance curve

NIS125-100-250G/125-100-315G



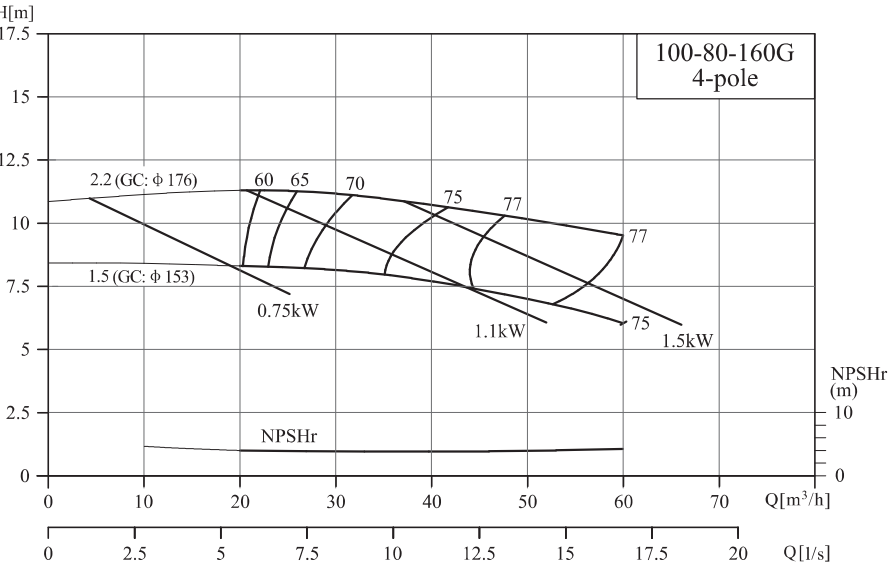
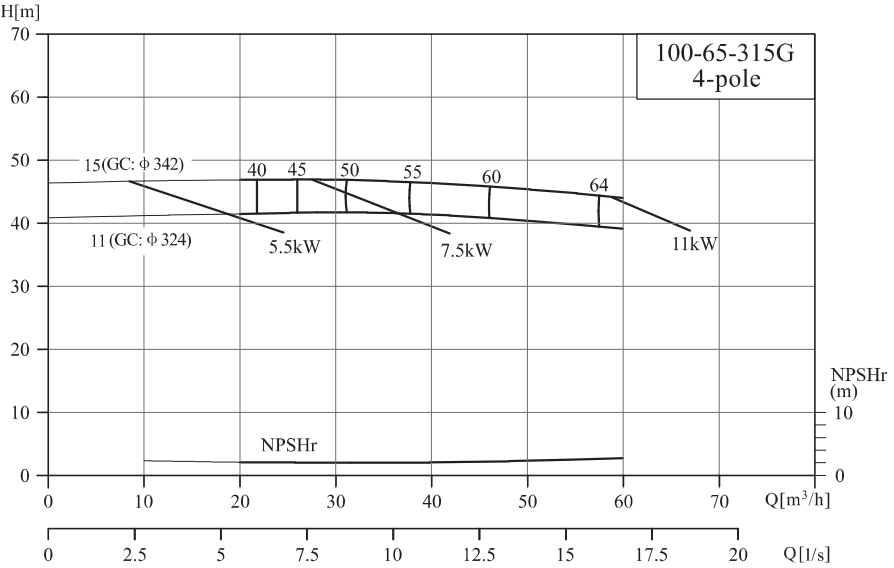
Performance curve

NIS100-65-200G/100-65-250G



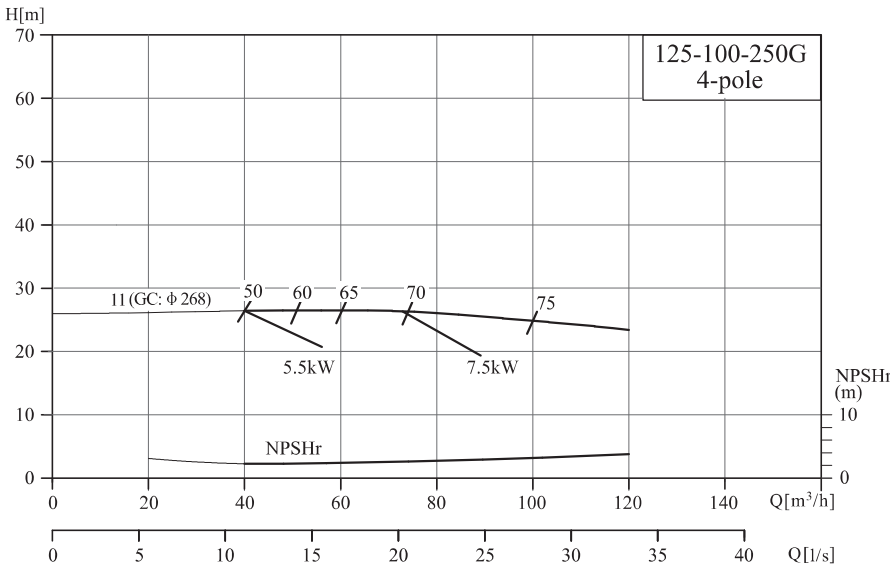
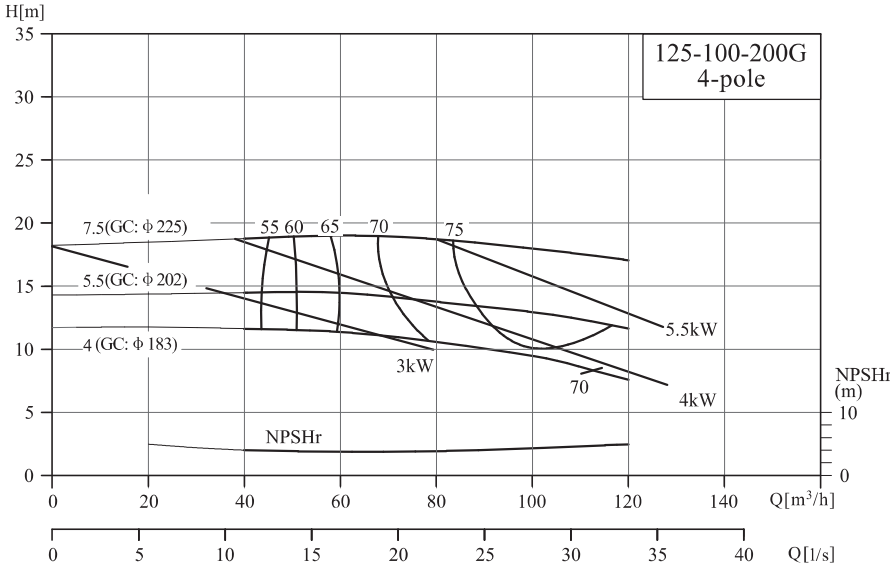
Performance curve

NIS100-65-315G/100-80-160G



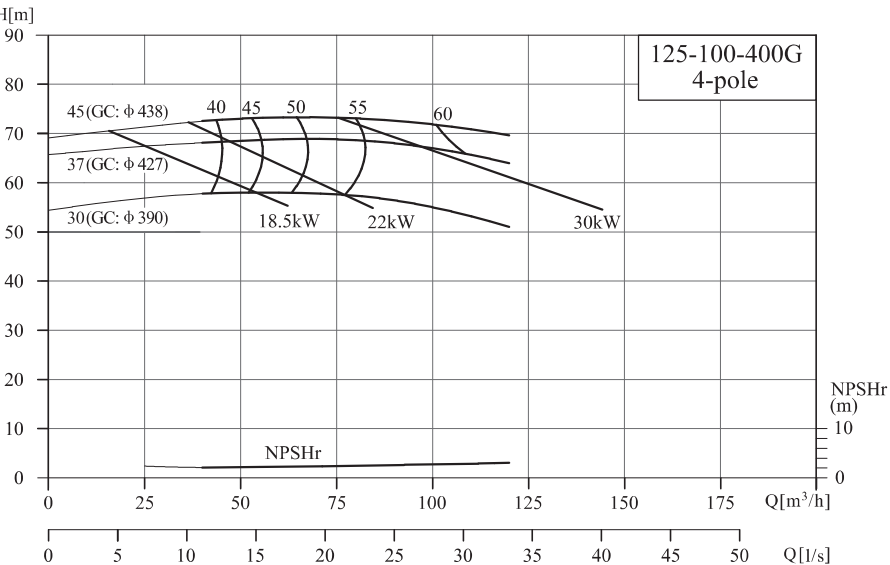
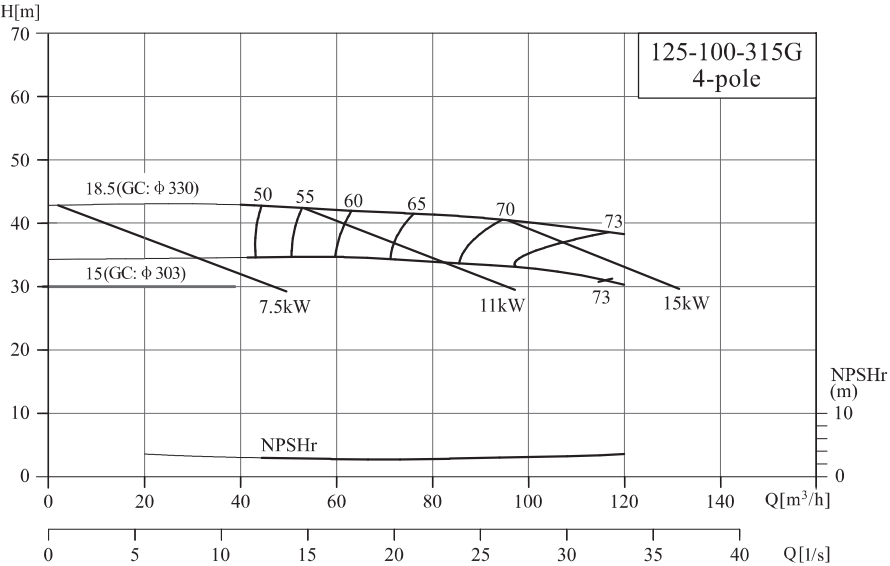
Performance curve

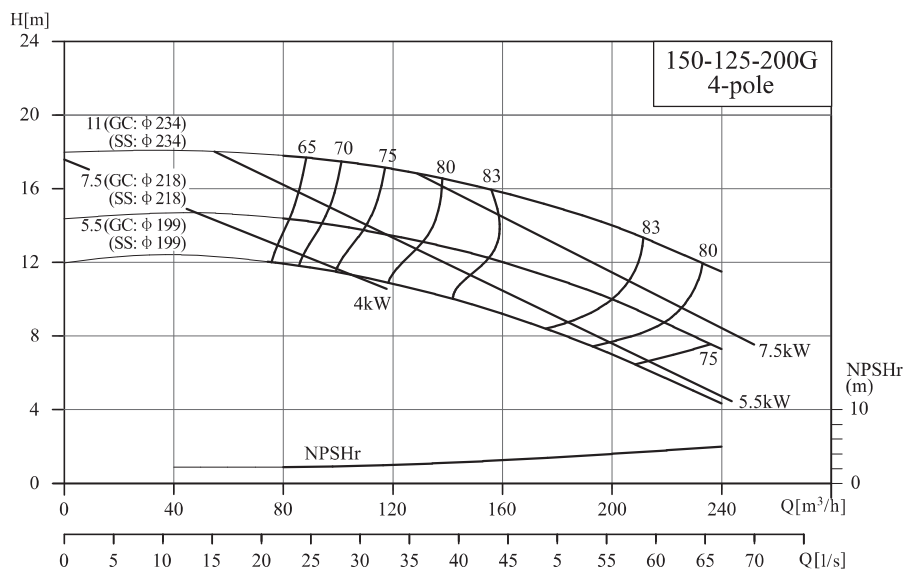
NIS125-100-200G/125-100-250G



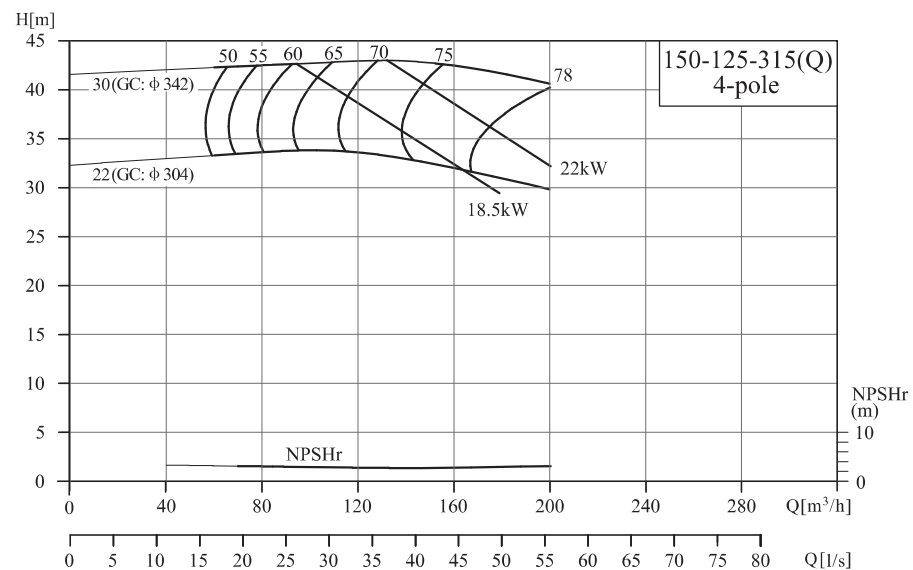
Performance curve

NIS125-100-315G/125-100-400G



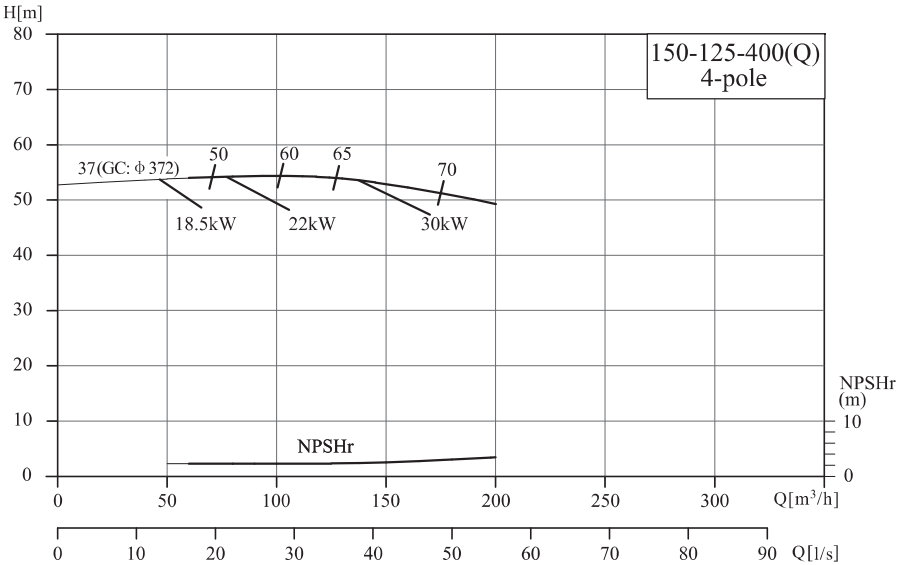
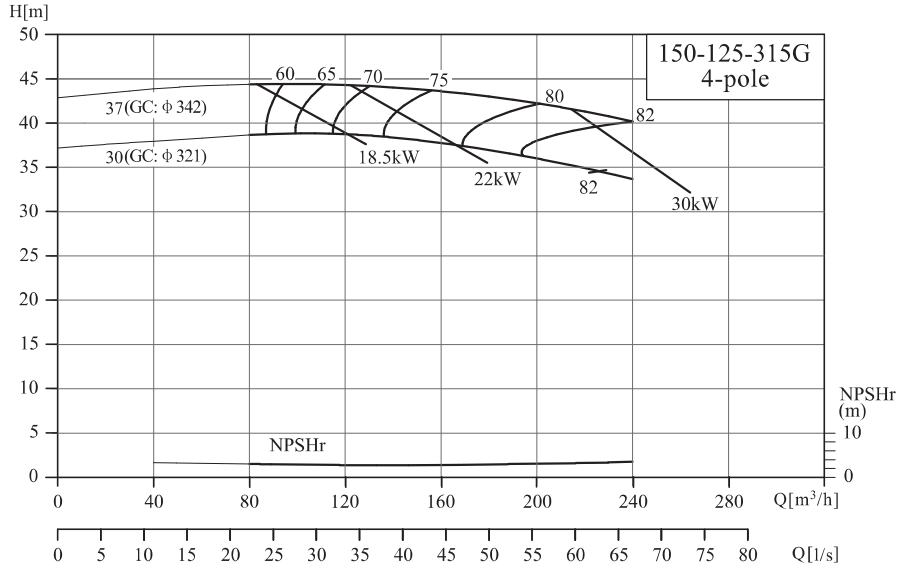
20 |  CNP NISO, NIS, NISF Series

## CNP NISO, NIS, NISF Series | 21



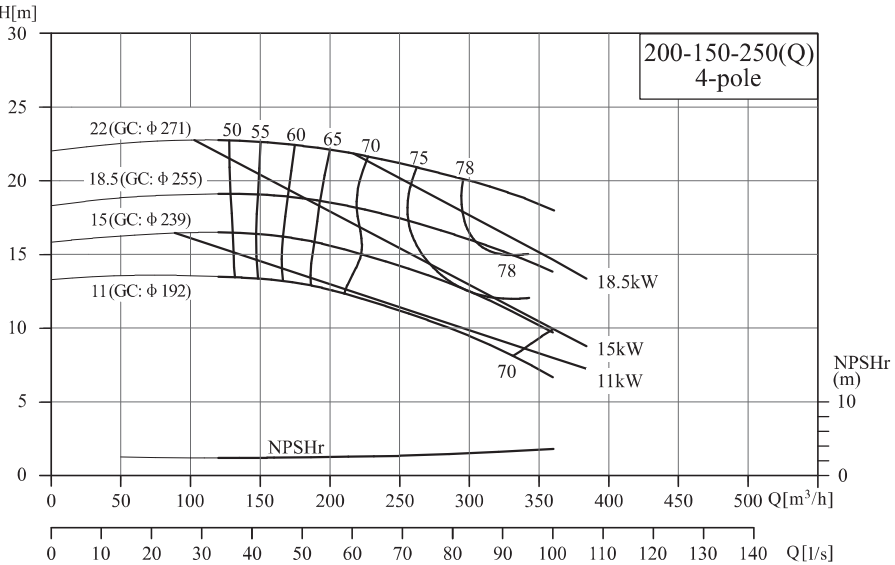
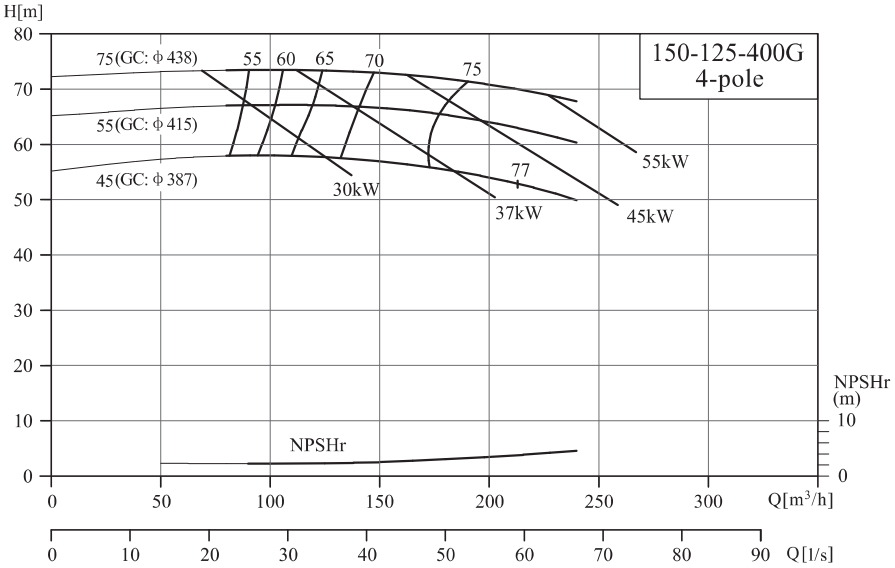
Performance curve

NIS150-125-315G/150-125-400(Q)



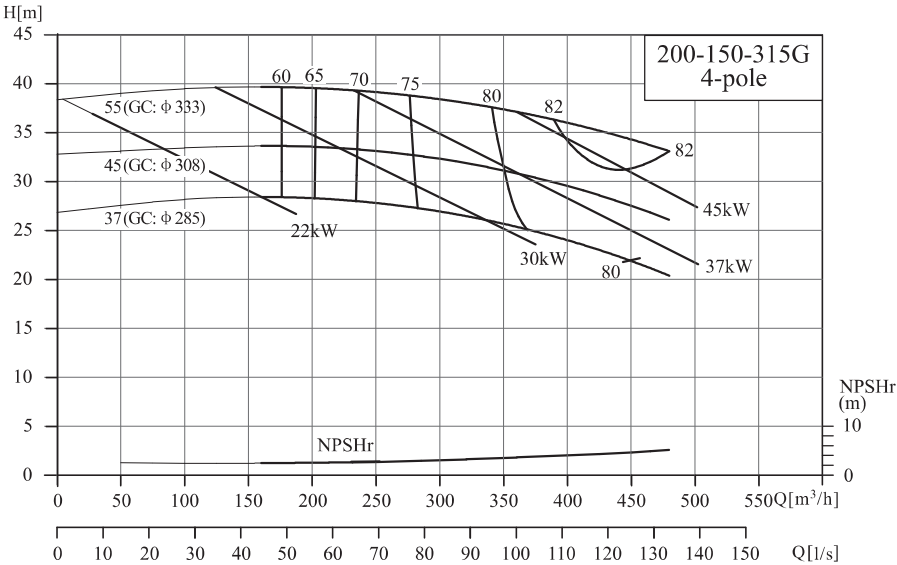
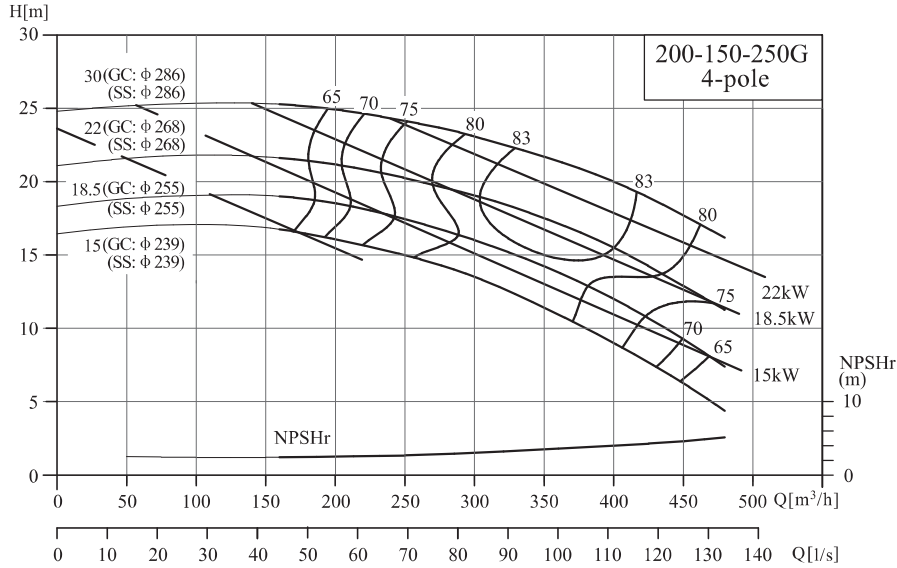
Performance curve

NIS150-125-400G/200-150-250(Q)



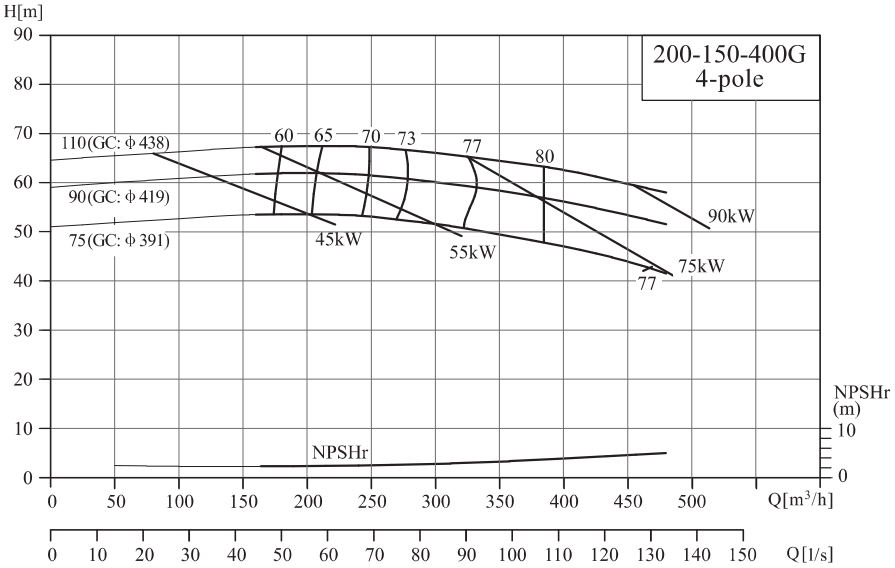
Performance curve

NIS200-150-250G/200-150-315G

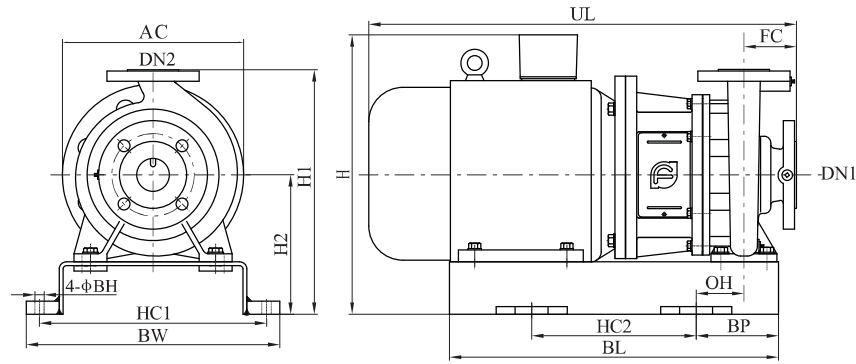


Performance curve

NIS200-150-400G



## NIS\*G,NIS\*(Q) Dimension drawing



## NIS\*G,NIS\*(Q) Dimension table

| 2-pole         |            |     |     |     |     |     |     |      |     |    |       |      |     |     |     |                   |
|----------------|------------|-----|-----|-----|-----|-----|-----|------|-----|----|-------|------|-----|-----|-----|-------------------|
| Model          | Power (kW) | H   | H1  | H2  | HC1 | HC2 | BW  | BL   | BP  | BH | OH    | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 100-65-200G    | 18.5       | 520 | 485 | 260 | 390 | 400 | 420 | 660  | 130 | 18 | 63.5  | 865  | 100 | 100 | 65  | 222               |
|                | 22         | 535 | 485 | 260 | 430 | 400 | 460 | 700  | 150 | 18 | 81.5  | 895  | 100 | 100 | 65  | 257               |
|                | 30         | 585 | 505 | 280 | 470 | 450 | 500 | 750  | 150 | 18 | 81.5  | 967  | 100 | 100 | 65  | 318               |
|                | 37         | 585 | 505 | 280 | 470 | 450 | 500 | 750  | 150 | 18 | 81.5  | 967  | 100 | 100 | 65  | 337               |
| 100-65-250G    | 45         | 640 | 555 | 305 | 520 | 500 | 560 | 820  | 160 | 22 | 76.5  | 1042 | 125 | 100 | 65  | 426               |
|                | 55         | 715 | 600 | 350 | 585 | 550 | 625 | 950  | 200 | 22 | 116.5 | 1156 | 125 | 100 | 65  | 529               |
| 100-65-315G    | 75         | 780 | 660 | 380 | 630 | 600 | 670 | 1000 | 200 | 22 | 114   | 1245 | 125 | 100 | 65  | 693               |
|                | 90         | 780 | 660 | 380 | 630 | 600 | 670 | 1100 | 250 | 22 | 164   | 1295 | 125 | 100 | 65  | 730               |
| 100-80-160G    | 11         | 515 | 440 | 240 | 390 | 400 | 420 | 660  | 130 | 18 | 61.5  | 810  | 100 | 100 | 80  | 177               |
|                | 15         | 515 | 440 | 240 | 390 | 400 | 420 | 660  | 130 | 18 | 61.5  | 810  | 100 | 100 | 80  | 187               |
|                | 18.5       | 515 | 440 | 240 | 390 | 400 | 420 | 660  | 130 | 18 | 61.5  | 865  | 100 | 100 | 80  | 207               |
| 125-100-200(Q) | 30         | 585 | 560 | 280 | 465 | 500 | 495 | 800  | 150 | 18 | 69    | 992  | 125 | 125 | 100 | 349               |
|                | 37         | 585 | 560 | 280 | 465 | 500 | 495 | 800  | 150 | 18 | 69    | 992  | 125 | 125 | 100 | 368               |
| 125-100-200G   | 30         | 585 | 560 | 280 | 465 | 500 | 495 | 800  | 150 | 18 | 69    | 992  | 125 | 125 | 100 | 349               |
|                | 37         | 585 | 560 | 280 | 465 | 500 | 495 | 800  | 150 | 18 | 69    | 992  | 125 | 125 | 100 | 368               |
|                | 45         | 640 | 585 | 305 | 520 | 500 | 560 | 820  | 160 | 22 | 76.5  | 1042 | 125 | 125 | 100 | 431               |
|                | 55         | 715 | 630 | 350 | 585 | 550 | 625 | 950  | 200 | 22 | 116.5 | 1156 | 125 | 125 | 100 | 534               |
|                | 75         | 780 | 660 | 380 | 630 | 600 | 670 | 1000 | 200 | 22 | 114   | 1231 | 125 | 125 | 100 | 678               |

## NIS\*G,NIS\*(Q) Dimension table

| 2-pole       |            |     |     |     |     |     |     |      |     |    |     |      |     |     |     |                   |
|--------------|------------|-----|-----|-----|-----|-----|-----|------|-----|----|-----|------|-----|-----|-----|-------------------|
| Model        | Power (kW) | H   | H1  | H2  | HC1 | HC2 | BW  | BL   | BP  | BH | OH  | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 125-100-250G | 75         | 780 | 660 | 380 | 630 | 600 | 670 | 1000 | 200 | 22 | 114 | 1265 | 140 | 125 | 100 | 701               |
|              | 90         | 780 | 660 | 380 | 630 | 600 | 670 | 1100 | 250 | 22 | 164 | 1315 | 140 | 125 | 100 | 738               |
| 125-100-315G | 110        | 945 | 730 | 415 | 720 | 600 | 760 | 1100 | 250 | 22 | 164 | 1545 | 140 | 125 | 100 | 1170              |
|              | 132        | 945 | 730 | 415 | 720 | 700 | 760 | 1220 | 260 | 22 | 174 | 1655 | 140 | 125 | 100 | 1230              |
|              | 160        | 945 | 730 | 415 | 720 | 700 | 760 | 1220 | 260 | 22 | 174 | 1655 | 140 | 125 | 100 | 1350              |

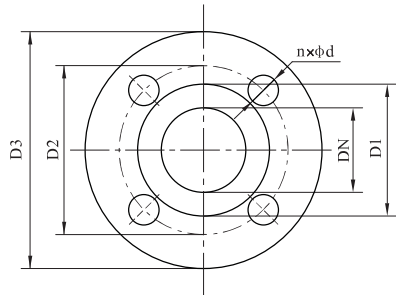
| 4-pole         |            |     |     |     |     |     |     |     |     |    |     |      |     |     |     |                   |
|----------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|------|-----|-----|-----|-------------------|
| Model          | Power (kW) | H   | H1  | H2  | HC1 | HC2 | BW  | BL  | BP  | BH | OH  | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 100-65-200G    | 3          | 430 | 485 | 260 | 386 | 300 | 416 | 500 | 100 | 14 | 35  | 591  | 100 | 100 | 65  | 109               |
|                | 4          | 448 | 485 | 260 | 386 | 300 | 416 | 500 | 100 | 14 | 35  | 606  | 100 | 100 | 65  | 114               |
| 100-65-250G    | 5.5        | 493 | 530 | 280 | 430 | 350 | 460 | 550 | 100 | 14 | 20  | 687  | 125 | 100 | 65  | 147               |
|                | 7.5        | 493 | 530 | 280 | 430 | 350 | 460 | 550 | 100 | 18 | 20  | 727  | 125 | 100 | 65  | 166               |
| 100-65-315G    | 11         | 565 | 585 | 305 | 470 | 400 | 500 | 700 | 150 | 18 | 70  | 854  | 125 | 100 | 65  | 249               |
|                | 15         | 565 | 585 | 305 | 470 | 400 | 500 | 700 | 150 | 18 | 70  | 909  | 125 | 100 | 65  | 270               |
| 100-80-160G    | 1.5        | 400 | 440 | 240 | 350 | 250 | 380 | 410 | 105 | 14 | 40  | 536  | 100 | 100 | 80  | 76                |
|                | 2.2        | 410 | 440 | 240 | 350 | 300 | 380 | 500 | 100 | 14 | 35  | 591  | 100 | 100 | 80  | 87                |
| 125-100-200G   | 4          | 468 | 560 | 280 | 430 | 300 | 460 | 500 | 100 | 14 | 20  | 631  | 125 | 125 | 100 | 136               |
|                | 5.5        | 493 | 560 | 280 | 430 | 350 | 460 | 550 | 100 | 18 | 20  | 687  | 125 | 125 | 100 | 152               |
| 125-100-250G   | 7.5        | 493 | 560 | 280 | 430 | 350 | 460 | 550 | 100 | 18 | 20  | 727  | 125 | 125 | 100 | 171               |
|                | 11         | 565 | 585 | 305 | 470 | 400 | 500 | 700 | 150 | 18 | 70  | 924  | 140 | 125 | 100 | 258               |
| 125-100-315G   | 15         | 590 | 645 | 330 | 470 | 400 | 500 | 700 | 150 | 18 | 69  | 869  | 140 | 125 | 100 | 281               |
|                | 18.5       | 605 | 645 | 330 | 470 | 450 | 500 | 750 | 150 | 18 | 69  | 954  | 140 | 125 | 100 | 317               |
| 125-100-400G   | 30         | 665 | 715 | 360 | 580 | 500 | 620 | 800 | 150 | 22 | 50  | 1028 | 140 | 125 | 100 | 444               |
|                | 37         | 715 | 735 | 380 | 585 | 550 | 625 | 950 | 200 | 22 | 100 | 1071 | 140 | 125 | 100 | 523               |
|                | 45         | 715 | 735 | 380 | 585 | 550 | 625 | 950 | 200 | 22 | 100 | 1101 | 140 | 125 | 100 | 552               |
| 150-125-200(Q) | 5.5        | 543 | 630 | 330 | 470 | 350 | 500 | 570 | 100 | 18 | 20  | 721  | 140 | 150 | 125 | 168               |
|                | 7.5        | 543 | 630 | 330 | 470 | 350 | 500 | 570 | 100 | 18 | 20  | 761  | 140 | 150 | 125 | 180               |
|                | 11         | 590 | 630 | 330 | 470 | 400 | 500 | 700 | 150 | 18 | 69  | 869  | 140 | 150 | 125 | 235               |
| 150-125-200G   | 5.5        | 543 | 630 | 330 | 470 | 350 | 500 | 570 | 100 | 18 | 20  | 721  | 140 | 150 | 125 | 168               |
|                | 7.5        | 543 | 630 | 330 | 470 | 350 | 500 | 570 | 100 | 18 | 20  | 761  | 140 | 150 | 125 | 180               |
|                | 11         | 590 | 630 | 330 | 470 | 400 | 500 | 700 | 150 | 18 | 69  | 869  | 140 | 150 | 125 | 235               |
| 150-125-250G   | 15         | 590 | 685 | 330 | 470 | 400 | 500 | 700 | 150 | 18 | 69  | 924  | 140 | 150 | 125 | 284               |
|                | 18.5       | 605 | 685 | 330 | 470 | 450 | 500 | 750 | 150 | 18 | 69  | 954  | 140 | 150 | 125 | 315               |
|                | 22         | 605 | 685 | 330 | 470 | 450 | 500 | 750 | 150 | 18 | 69  | 994  | 140 | 150 | 125 | 333               |

## NIS\*G,NIS\*(Q) Dimension table

4-pole

| Model          | Power (kW) | H   | H1  | H2  | HC1 | HC2 | BW  | BL   | BP  | BH | OH  | UL   | FC  | DN1 | DN2 | Total weight (kg) |
|----------------|------------|-----|-----|-----|-----|-----|-----|------|-----|----|-----|------|-----|-----|-----|-------------------|
| 150-125-315(Q) | 22         | 635 | 715 | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 994  | 140 | 150 | 125 | 400               |
|                | 30         | 665 | 715 | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 1028 | 140 | 150 | 125 | 430               |
| 150-125-315G   | 30         | 665 | 715 | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 1028 | 140 | 150 | 125 | 430               |
|                | 37         | 715 | 735 | 380 | 585 | 550 | 625 | 950  | 200 | 22 | 100 | 1071 | 140 | 150 | 125 | 507               |
| 150-125-400(Q) | 37         | 750 | 815 | 415 | 585 | 550 | 625 | 950  | 200 | 22 | 100 | 1071 | 140 | 150 | 125 | 521               |
|                | 45         | 750 | 815 | 415 | 585 | 550 | 625 | 950  | 200 | 22 | 100 | 1103 | 140 | 150 | 125 | 561               |
| 150-125-400G   | 55         | 780 | 815 | 415 | 585 | 550 | 625 | 950  | 200 | 22 | 100 | 1187 | 140 | 150 | 125 | 620               |
|                | 75         | 815 | 815 | 415 | 630 | 600 | 670 | 1000 | 200 | 22 | 100 | 1262 | 140 | 150 | 125 | 776               |
| 200-150-250(Q) | 11         | 620 | 735 | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 901  | 160 | 200 | 150 | 273               |
|                | 15         | 620 | 735 | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 956  | 160 | 200 | 150 | 299               |
|                | 18.5       | 635 | 735 | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 988  | 160 | 200 | 150 | 337               |
|                | 22         | 635 | 735 | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 1026 | 160 | 200 | 150 | 360               |
| 200-150-250G   | 15         | 620 | 735 | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 956  | 160 | 200 | 150 | 299               |
|                | 18.5       | 635 | 735 | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 988  | 160 | 200 | 150 | 337               |
|                | 22         | 635 | 735 | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 1026 | 160 | 200 | 150 | 360               |
|                | 30         | 665 | 735 | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 1048 | 160 | 200 | 150 | 426               |
| 200-150-315G   | 37         | 750 | 815 | 415 | 605 | 500 | 670 | 900  | 200 | 22 | 100 | 1116 | 160 | 200 | 150 | 541               |
|                | 45         | 750 | 815 | 415 | 605 | 500 | 645 | 900  | 200 | 22 | 100 | 1146 | 160 | 200 | 150 | 579               |
|                | 55         | 780 | 815 | 415 | 605 | 600 | 645 | 1000 | 200 | 22 | 100 | 1254 | 160 | 200 | 150 | 650               |
| 200-150-400G   | 75         | 815 | 865 | 415 | 630 | 600 | 675 | 1100 | 250 | 22 | 150 | 1329 | 160 | 200 | 150 | 859               |
|                | 90         | 815 | 865 | 415 | 630 | 600 | 675 | 1100 | 250 | 22 | 150 | 1379 | 160 | 200 | 150 | 956               |
|                | 110        | 945 | 865 | 415 | 720 | 700 | 760 | 1220 | 260 | 22 | 160 | 1614 | 160 | 200 | 150 | 1325              |

## NIS\*G,NIS\*(Q) Flange



NIS\*G,NIS\*(Q) Flange dimension

| DN  | D1  | D2  | D3  | n  | d  |
|-----|-----|-----|-----|----|----|
| 65  | 122 | 145 | 185 | 4  | 18 |
| 80  | 133 | 160 | 200 | 8  | 18 |
| 100 | 158 | 180 | 220 | 8  | 18 |
| 125 | 184 | 210 | 250 | 8  | 18 |
| 150 | 212 | 240 | 285 | 8  | 22 |
| 200 | 268 | 295 | 340 | 12 | 22 |

## NISO, NIS, NISF Product range

2-pole

| No. | Model          | Q [m³/h] | H [m] | Motor [kW] | n [r/min] |
|-----|----------------|----------|-------|------------|-----------|
| 1   | 50-32-160/3    | 12.5     | 28    | 3          | 2900      |
| 2   | 50-32-160/4    |          | 36    | 4          |           |
| 3   | 50-32-160/5.5  |          | 44    | 5.5        |           |
| 4   | 50-32-200/7.5  |          | 55    | 7.5        |           |
| 5   | 50-32-200/11   |          | 74    | 11         | 2950      |
| 6   | 65-40-200/7.5  | 25       | 48    | 7.5        | 2900      |
| 7   | 65-40-200/11   |          | 62    | 11         | 2950      |
| 8   | 65-40-200/15   |          | 72    | 15         |           |
| 9   | 65-40-250/18.5 |          | 84    | 18.5       |           |
| 10  | 65-40-250/22   |          | 95    | 22         |           |
| 11  | 65-40-250/30   |          | 105   | 30         |           |
| 12  | 65-40-315/22   |          | 105   | 22         | 2900      |
| 13  | 65-40-315/30   |          | 120   | 30         |           |
| 14  | 65-40-315/37   |          | 145   | 37         |           |
| 15  | 65-40-315/45   |          | 165   | 45         |           |
| 16  | 65-50-160/4    | 50       | 28    | 4          | 2900      |
| 17  | 65-50-160/5.5  |          | 36    | 5.5        |           |
| 18  | 65-50-160/7.5  |          | 42    | 7.5        |           |
| 19  | 80-50-200/11   |          | 44    | 11         | 2950      |
| 20  | 80-50-200/15   |          | 57    | 15         |           |
| 21  | 80-50-200/18.5 |          | 64    | 18.5       |           |
| 22  | 80-50-200/22   |          | 71    | 22         |           |
| 23  | 80-50-250/30   |          | 84    | 30         |           |
| 24  | 80-50-250/37   |          | 100   | 37         |           |
| 25  | 80-50-315/37   |          | 105   | 37         |           |
| 26  | 80-50-315/45   |          | 125   | 45         |           |
| 27  | 80-50-315/55   |          | 140   | 55         |           |
| 28  | 80-50-315/75   |          | 152   | 75         |           |

## NISO, NIS, NISF Product range

2-pole

| No. | Model           | Q<br>[m³/h] | H<br>[m] | Motor<br>[kW] | n<br>[r/min] |
|-----|-----------------|-------------|----------|---------------|--------------|
| 29  | 80-65-160/5.5   | 50          | 22       | 5.5           | 2900         |
| 30  | 80-65-160/7.5   |             | 29       | 7.5           |              |
| 31  | 80-65-160/11    |             | 38       | 11            |              |
| 32  | 80-65-160/15    |             | 44       | 15            |              |
| 33  | 100-65-200/18.5 | 100         | 36       | 18.5          | 2950         |
| 34  | 100-65-200/22   |             | 43       | 22            |              |
| 35  | 100-65-200/30   |             | 56       | 30            |              |
| 36  | 100-65-200/37   |             | 67       | 37            |              |
| 37  | 100-65-250/45   |             | 80       | 45            |              |
| 38  | 100-65-250/55   |             | 88       | 55            |              |
| 39  | 100-65-250/75   |             | 108      | 75            |              |
| 40  | 100-65-315/90   |             | 128      | 90            |              |
| 41  | 100-65-315/110  |             | 148      | 110           |              |
| 42  | 100-80-160/11   |             | 23       | 11            |              |
| 43  | 100-80-160/15   |             | 30       | 15            |              |
| 44  | 100-80-160/18.5 | 200         | 35       | 18.5          | 2950         |
| 45  | 100-80-160/22   |             | 40       | 22            |              |
| 46  | 125-100-200/30  |             | 34       | 30            |              |
| 47  | 125-100-200/37  |             | 41       | 37            |              |
| 48  | 125-100-200/45  |             | 48       | 45            |              |
| 49  | 125-100-200/55  |             | 55       | 55            |              |
| 50  | 125-100-200/75  |             | 66       | 75            |              |
| 51  | 125-100-250/75  |             | 75       | 75            |              |
| 52  | 125-100-250/90  |             | 86       | 90            |              |
| 53  | 125-100-250/110 |             | 100      | 110           |              |
| 54  | 125-100-315/90  |             | 93       | 90            |              |
| 55  | 125-100-315/110 |             | 108      | 110           |              |
| 56  | 125-100-315/132 |             | 124      | 132           |              |
| 57  | 125-100-315/160 |             | 144      | 160           |              |

## NISO, NIS, NISF Product range

4-pole

| No. | Model          | Q<br>[m³/h] | H<br>[m] | Motor<br>[kW] | n<br>[r/min] |
|-----|----------------|-------------|----------|---------------|--------------|
| 1   | 50-32-160/0.55 | 6.3         | 8.5      | 0.55          |              |
| 2   | 50-32-160/0.75 |             | 11       | 0.75          |              |
| 3   | 50-32-200/1.1  |             | 14       | 1.1           |              |
| 4   | 50-32-200/1.5  |             | 18       | 1.5           |              |
| 5   | 65-40-200/1.1  | 12.5        | 12       | 1.1           |              |
| 6   | 65-40-200/1.5  |             | 15       | 1.5           |              |
| 7   | 65-40-200/2.2  |             | 17.5     | 2.2           |              |
| 8   | 65-40-250/3    |             | 25       | 3             |              |
| 9   | 65-40-315/4    |             | 34       | 4             |              |
| 10  | 65-40-315/5.5  |             | 40       | 5.5           |              |
| 11  | 65-50-160/0.55 | 25          | 7        | 0.55          | 1450         |
| 12  | 65-50-160/0.75 |             | 9        | 0.75          |              |
| 13  | 65-50-160/1.1  |             | 10.5     | 1.1           |              |
| 14  | 80-50-200/1.5  |             | 11       | 1.5           |              |
| 15  | 80-50-200/2.2  |             | 15       | 2.2           |              |
| 16  | 80-50-200/3    |             | 17.5     | 3             |              |
| 17  | 80-50-250/4    |             | 21       | 4             |              |
| 18  | 80-50-250/5.5  |             | 25       | 5.5           |              |
| 19  | 80-50-315/5.5  |             | 30       | 5.5           |              |
| 20  | 80-50-315/7.5  |             | 37       | 7.5           |              |
| 21  | 80-65-160/0.75 | 50          | 6        | 0.75          |              |
| 22  | 80-65-160/1.1  |             | 8        | 1.1           |              |
| 23  | 80-65-160/1.5  |             | 10.5     | 1.5           |              |
| 24  | 100-65-200/3   |             | 11.5     | 3             |              |
| 25  | 100-65-200/4   |             | 14       | 4             |              |
| 26  | 100-65-200/5.5 |             | 16       | 5.5           |              |
| 27  | 100-65-250/5.5 |             | 20       | 5.5           |              |
| 28  | 100-65-250/7.5 |             | 25       | 7.5           |              |
| 29  | 100-65-315/11  |             | 32       | 11            | 1480         |

## NISO, NIS, NISF Product range

4-pole

| No. | Model            | Q<br>[m³/h] | H<br>[m] | Motor<br>[kW] | n<br>[r/min] |
|-----|------------------|-------------|----------|---------------|--------------|
| 30  | 100-65-315/15    | 50          | 40       | 15            | 1480         |
| 31  | 100-80-160/1.5   |             | 6.5      | 1.5           | 1450         |
| 32  | 100-80-160/2.2   |             | 9        | 2.2           |              |
| 33  | 100-80-160/3     |             | 10.5     | 3             |              |
| 34  | 125-80-400/15    |             | 39       | 15            | 1480         |
| 35  | 125-80-400/18.5  |             | 45       | 18.5          |              |
| 36  | 125-80-400/22    |             | 50       | 22            |              |
| 37  | 125-80-400/30    |             | 60       | 30            |              |
| 38  | 125-80-400/37    |             | 67       | 37            |              |
| 39  | 125-100-200/4    | 100         | 9        | 4             | 1450         |
| 40  | 125-100-200/5.5  |             | 11.5     | 5.5           |              |
| 41  | 125-100-200/7.5  |             | 14       | 7.5           |              |
| 42  | 125-100-200/11   |             | 16.5     | 11            | 1480         |
| 43  | 125-100-250/15   |             | 25       | 15            |              |
| 44  | 125-100-315/11   |             | 23       | 11            |              |
| 45  | 125-100-315/18.5 |             | 32       | 18.5          |              |
| 46  | 125-100-315/22   |             | 36       | 22            |              |
| 47  | 125-100-315/30   |             | 40       | 30            |              |
| 48  | 125-100-400/30   |             | 50       | 30            |              |
| 49  | 125-100-400/37   |             | 58       | 37            |              |
| 50  | 125-100-400/45   |             | 65       | 45            |              |
| 51  | 150-125-250/11   | 200         | 12.5     | 11            | 1480         |
| 52  | 150-125-250/15   |             | 16       | 15            |              |
| 53  | 150-125-250/18.5 |             | 20       | 18.5          |              |
| 54  | 150-125-250/22   |             | 24       | 22            |              |
| 55  | 150-125-315/30   |             | 32       | 30            |              |
| 56  | 150-125-315/37   |             | 39       | 37            |              |
| 57  | 150-125-400/45   |             | 50       | 45            |              |
| 58  | 150-125-400/55   |             | 57       | 55            |              |

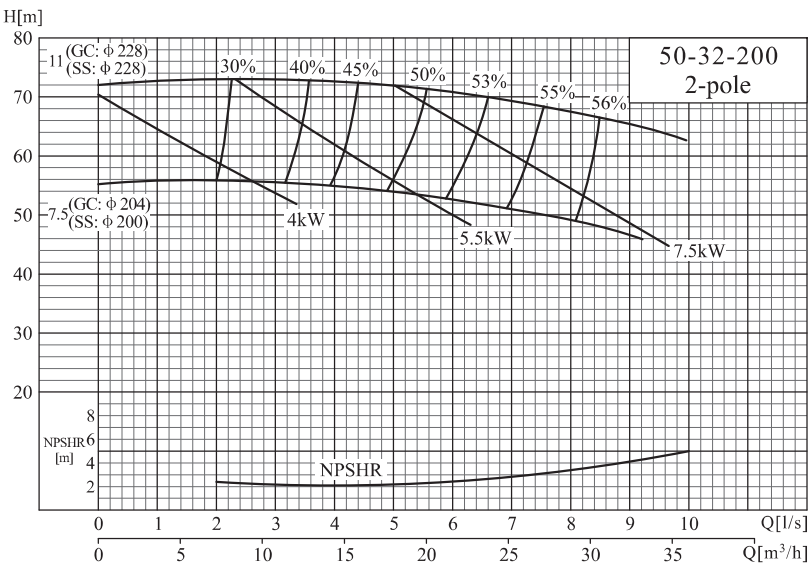
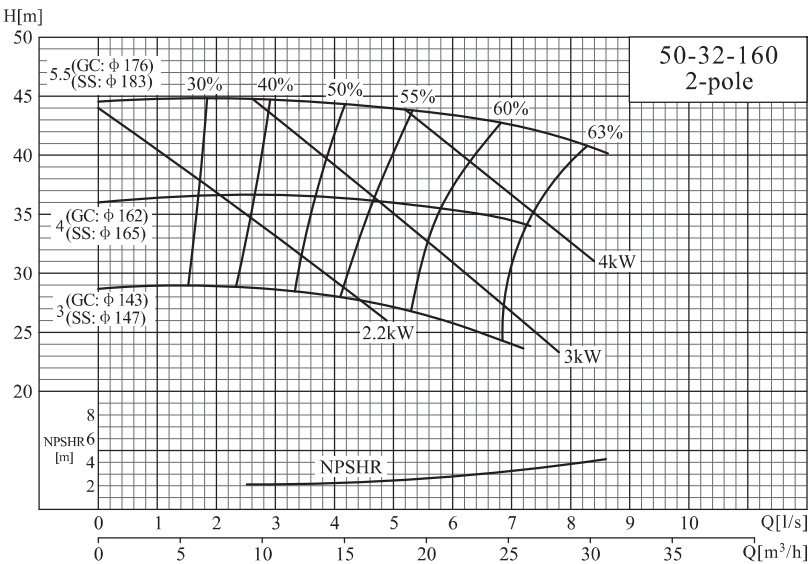
## NISO, NIS, NISF Product range

4-pole

| No. | Model              | Q<br>[m³/h] | H<br>[m] | Motor<br>[kW] | n<br>[r/min] |
|-----|--------------------|-------------|----------|---------------|--------------|
| 59  | 150-125-400/75     | 200         | 68       | 75            | 1480         |
| 60  | 200-150-315/37     | 400         | 23       | 37            |              |
| 61  | 200-150-315/45     |             | 27       | 45            |              |
| 62  | 200-150-315/55     |             | 32       | 55            |              |
| 63  | 200-150-315/75     |             | 38       | 75            |              |
| 64  | 200-150-400/75     |             | 43       | 75            |              |
| 65  | 200-150-400/90     |             | 50       | 90            |              |
| 66  | 200-150-400/110    |             | 62       | 110           |              |
| 67  | 250-200-315/37     | 500         | 20       | 37            |              |
| 68  | 250-200-315/45     |             | 23       | 45            |              |
| 69  | 250-200-315/55     | 630         | 24       | 55            |              |
| 70  | 250-200-315/75     |             | 32       | 75            |              |
| 71  | 250-200-400/90     |             | 37       | 90            |              |
| 72  | 250-200-400/110    |             | 44       | 110           |              |
| 73  | 250-200-400/132    |             | 53       | 132           |              |
| 74  | 250-200-400/160    |             | 60       | 160           |              |
| 75  | 300-250-315(Q)/75  | 800         | 26       | 75            |              |
| 76  | 300-250-315(Q)/90  |             | 32       | 90            |              |
| 77  | 300-250-315(Q)/110 |             | 35       | 110           |              |
| 78  | 300-250-400(Q)/110 |             | 38       | 110           |              |
| 79  | 300-250-400(Q)/132 |             | 45       | 132           |              |
| 80  | 300-250-400(Q)/160 |             | 53       | 160           |              |
| 81  | 300-250-400(Q)/200 |             | 63       | 200           |              |
| 82  | 300-250-315/75     | 1000        | 20       | 75            |              |
| 83  | 300-250-315/90     |             | 25       | 90            |              |
| 84  | 300-250-315/110    |             | 31       | 110           |              |
| 85  | 300-250-400/132    |             | 37       | 132           |              |
| 86  | 300-250-400/160    |             | 45       | 160           |              |
| 87  | 300-250-400/200    |             | 50       | 200           |              |

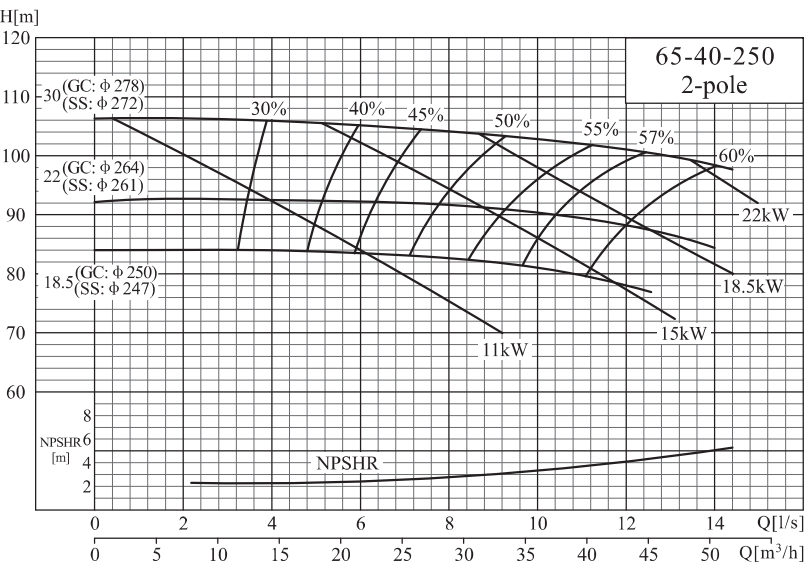
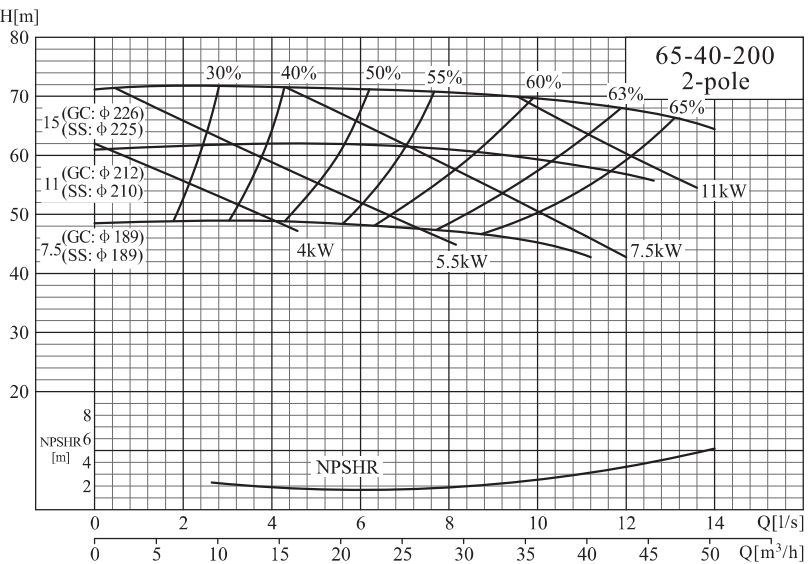
# Performance curve

NISO,NIS,NISF 50-32-160/50-32-200



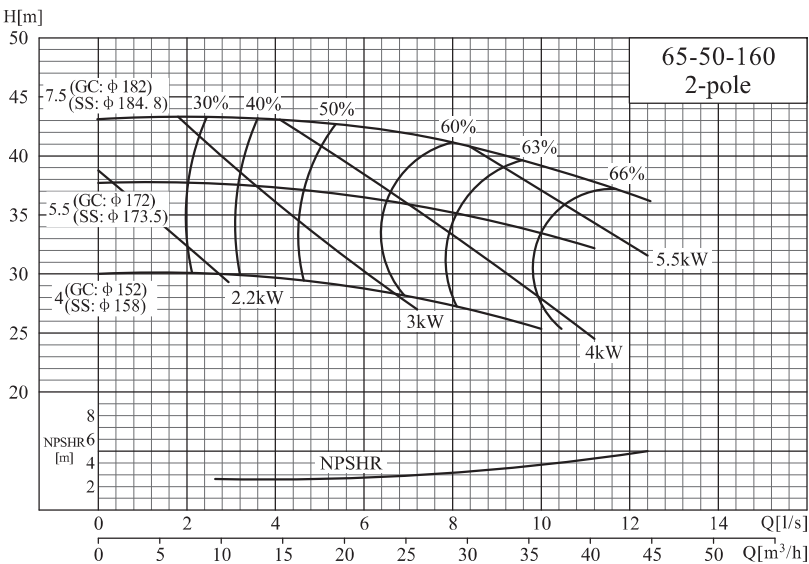
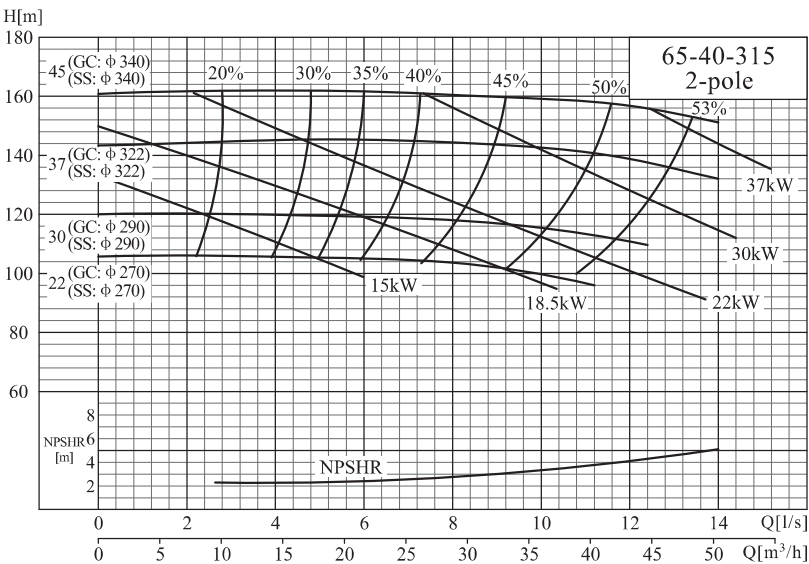
# Performance curve

NISO,NIS,NISF 65-40-200/65-40-250



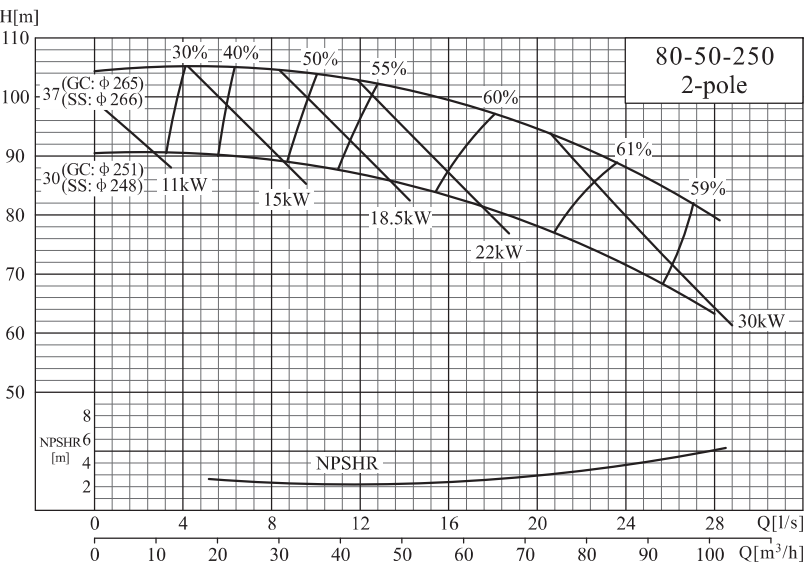
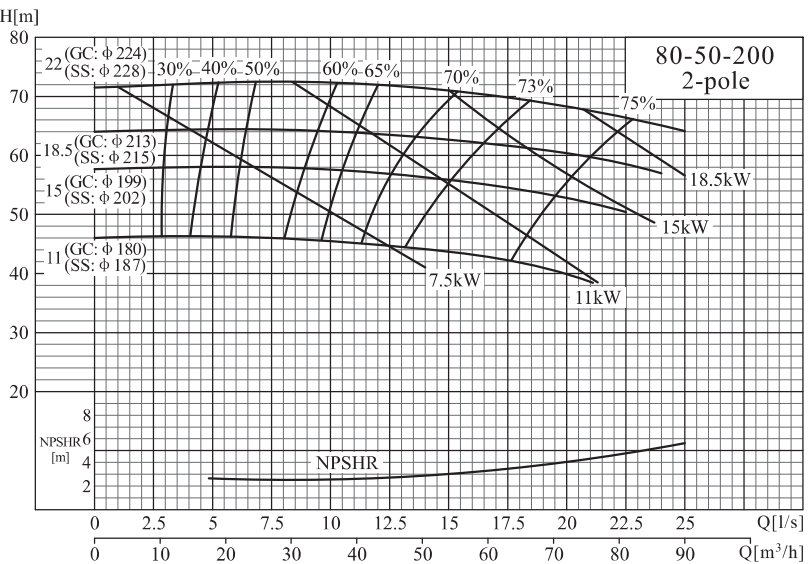
# Performance curve

NISO,NIS,NISF 65-40-315/65-50-160



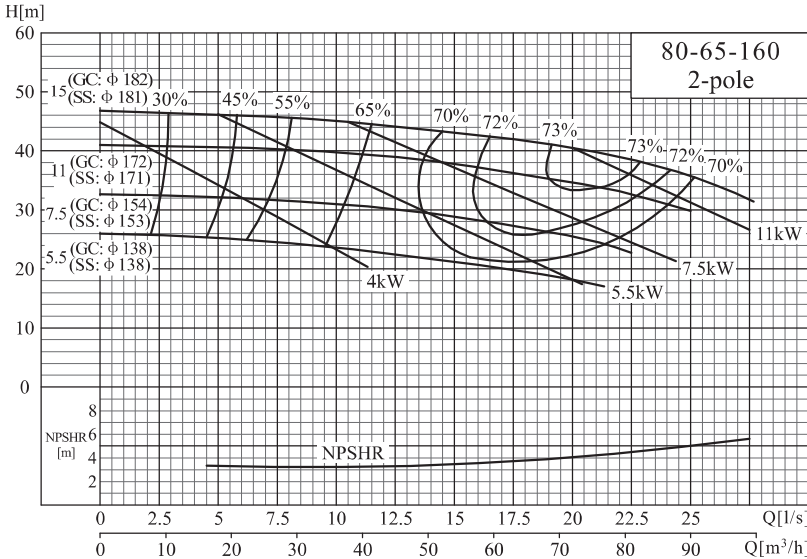
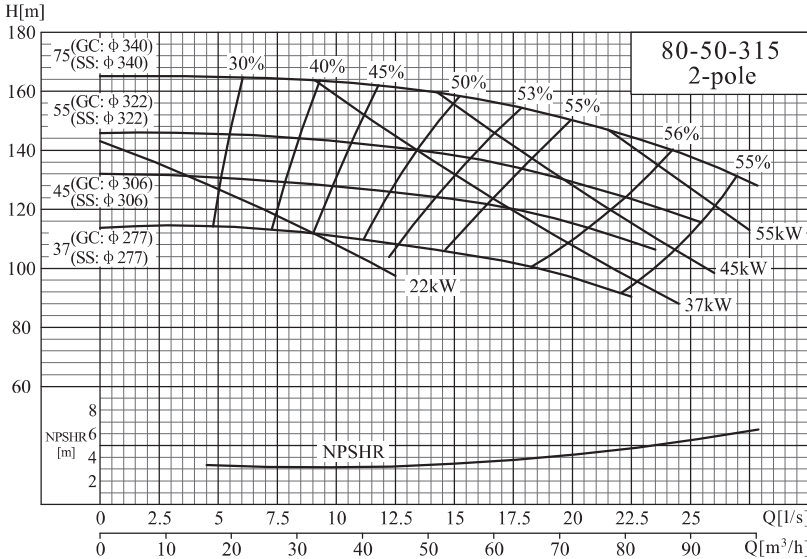
# Performance curve

NISO,NIS,NISF 80-50-200/80-50-250



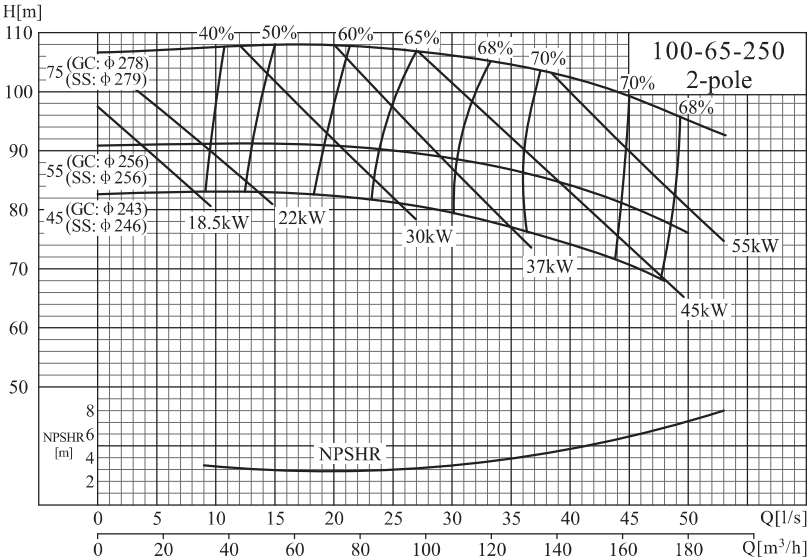
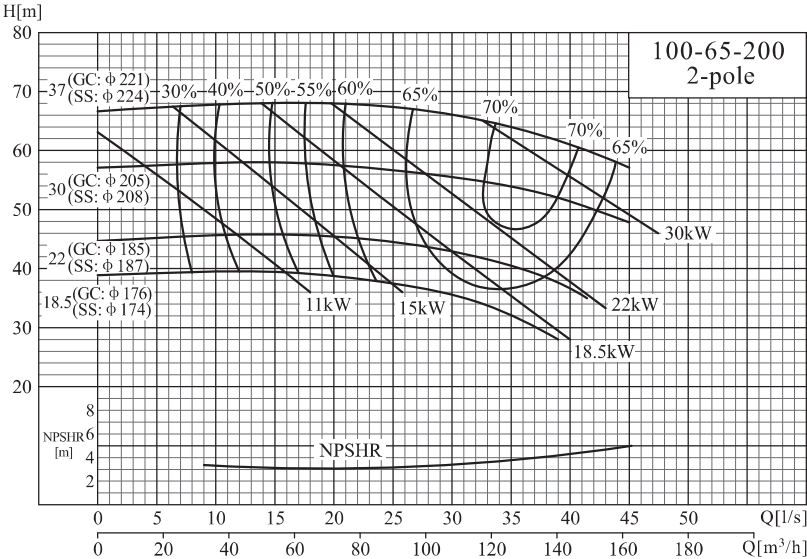
# Performance curve

NISO,NIS,NISF 80-50-315/80-65-160



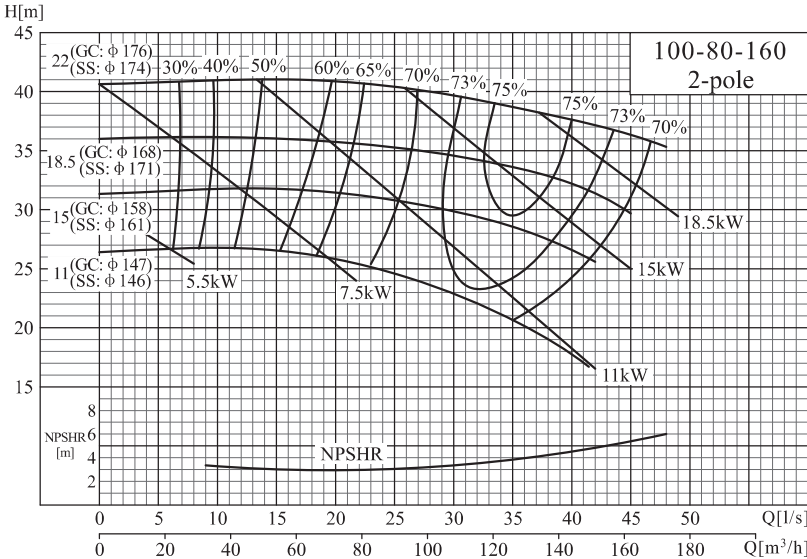
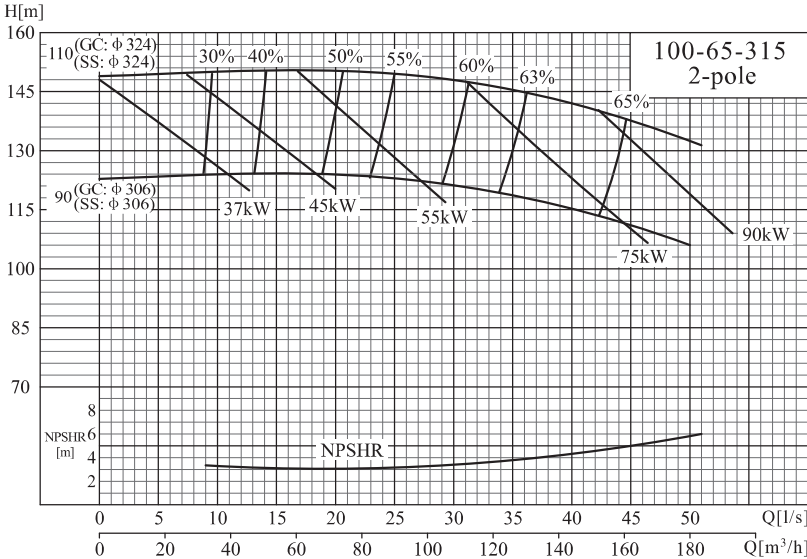
# Performance curve

NISO,NIS,NISF 100-65-200/100-65-250



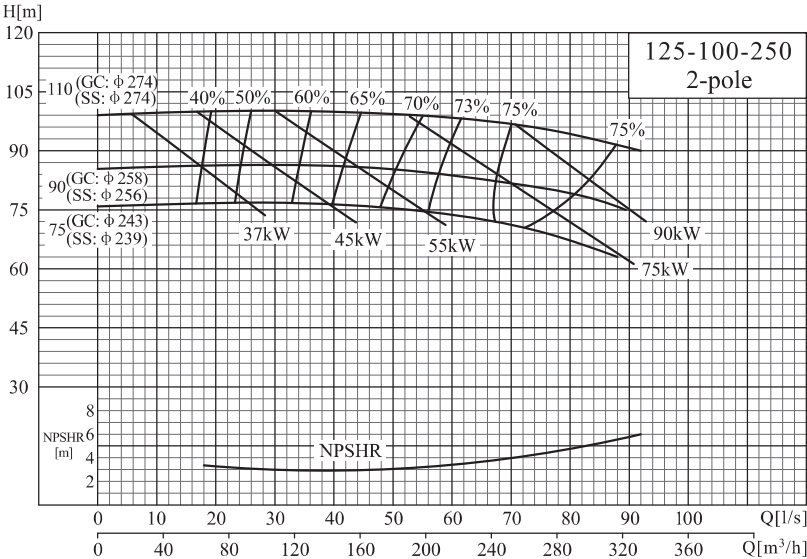
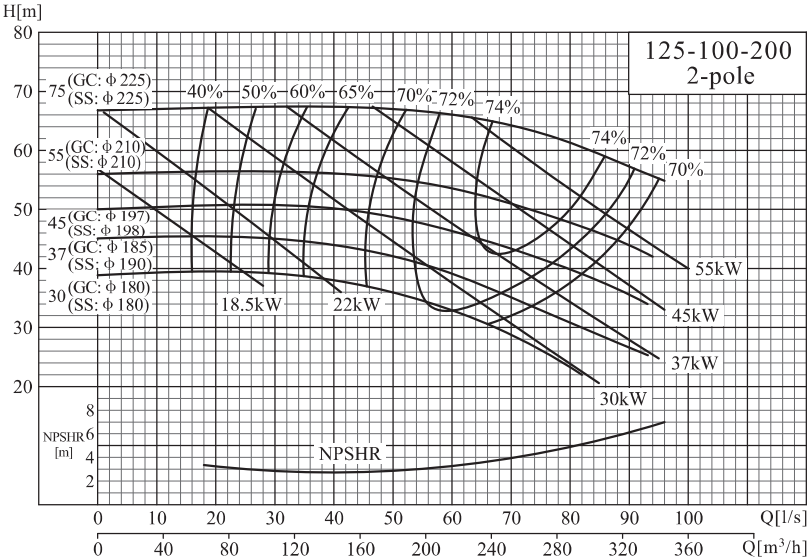
# Performance curve

NISO,NIS,NISF100-65-315/100-80-160



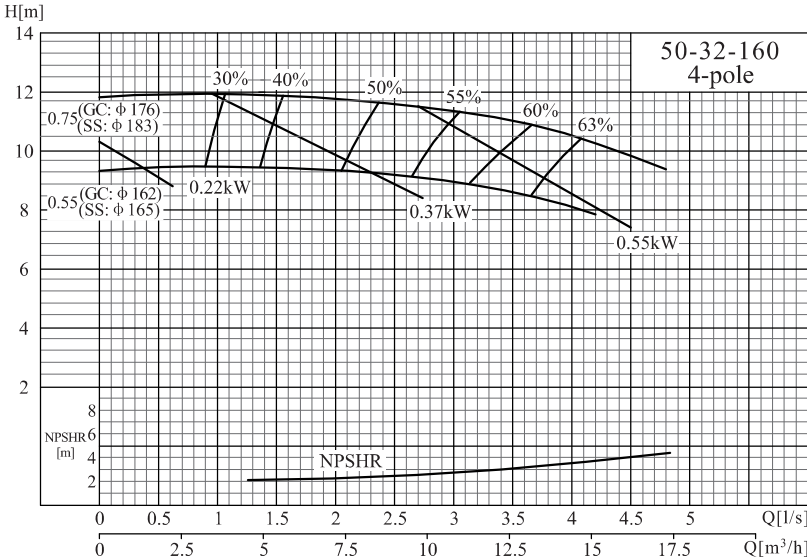
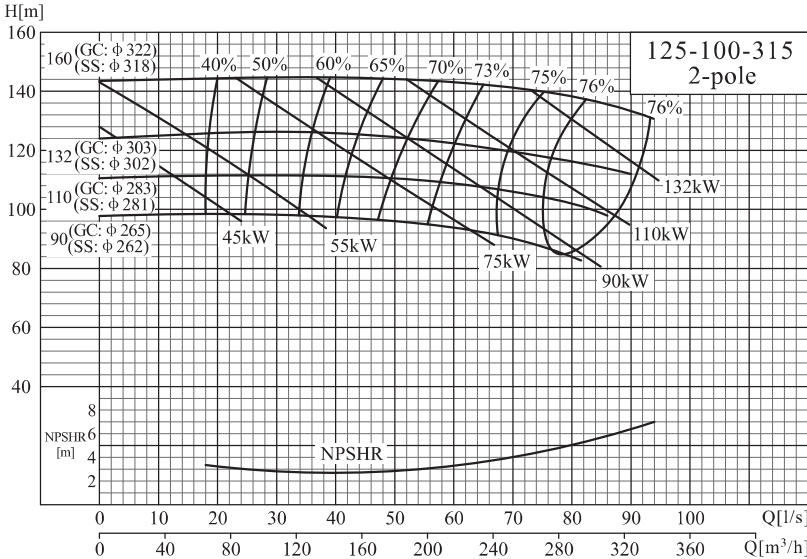
# Performance curve

NISO,NIS,NISF125-100-200/125-100-250



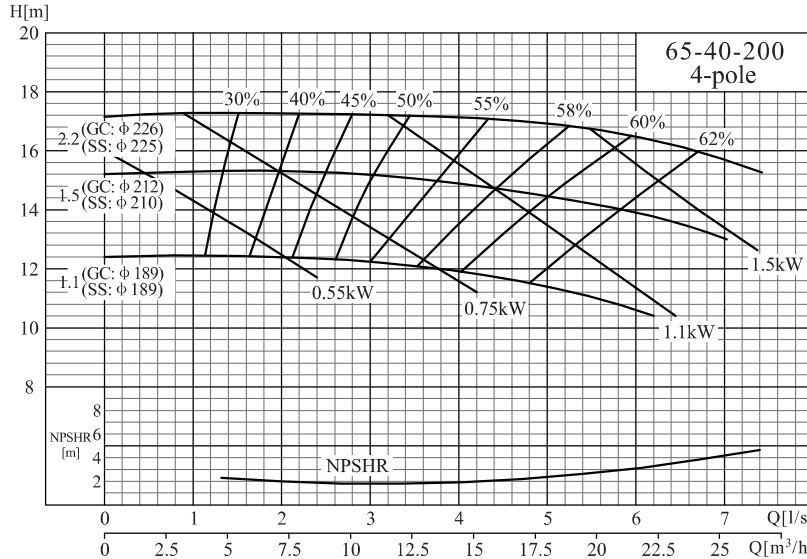
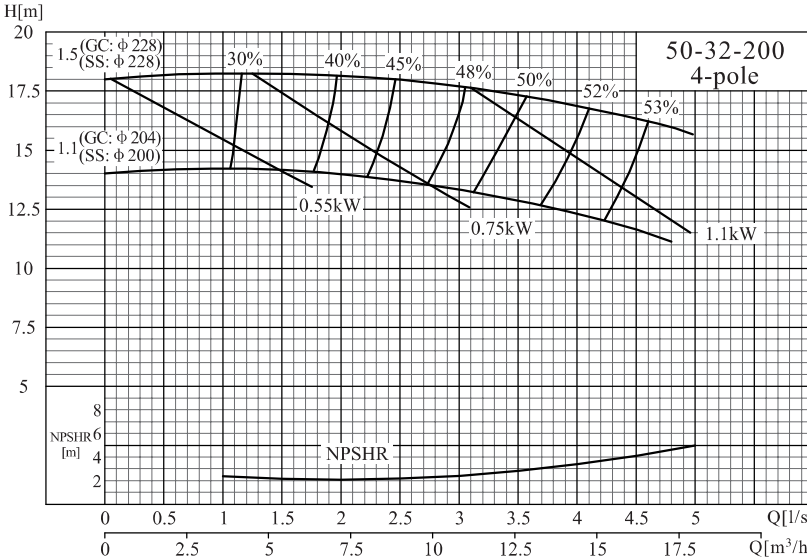
Performance curve

NISO,NIS,NISF 125-100-315/50-32-160



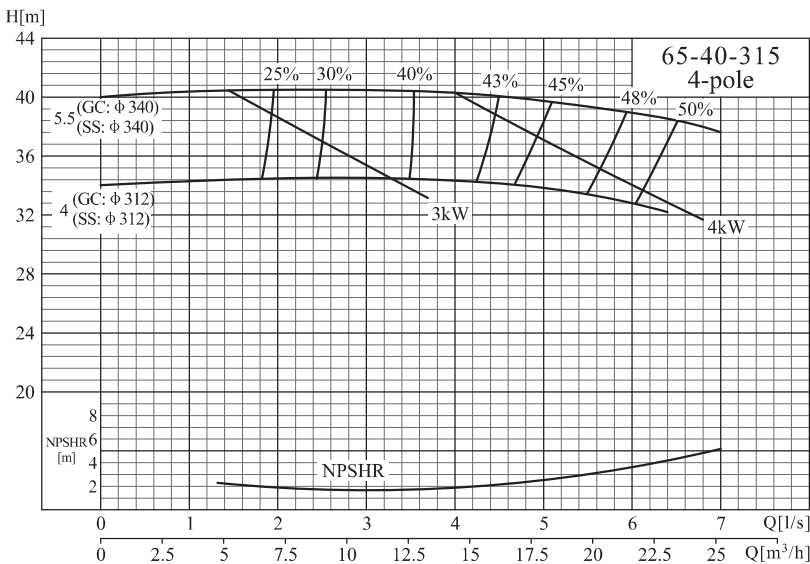
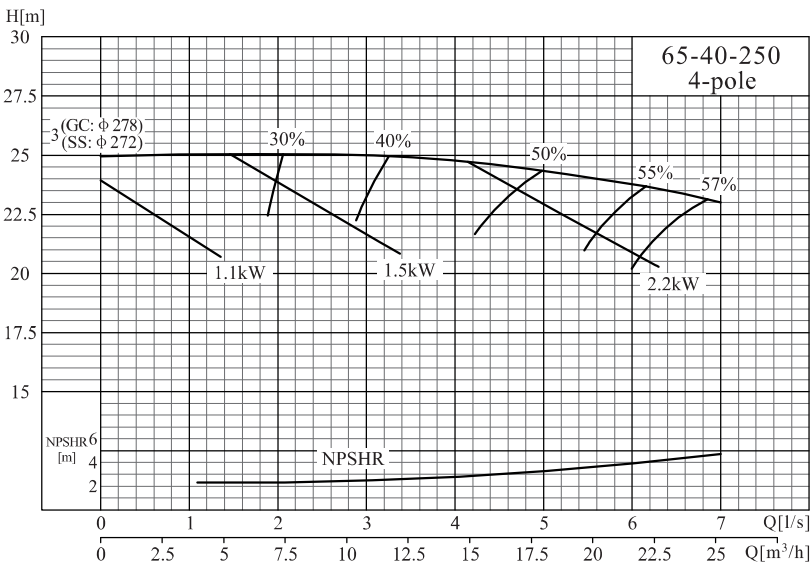
Performance curve

NISO,NIS,NISF 50-32-200/65-40-200



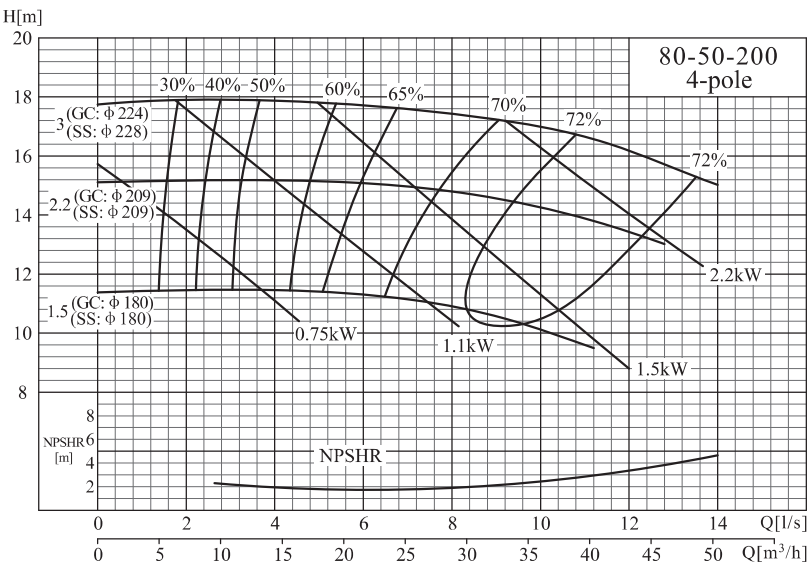
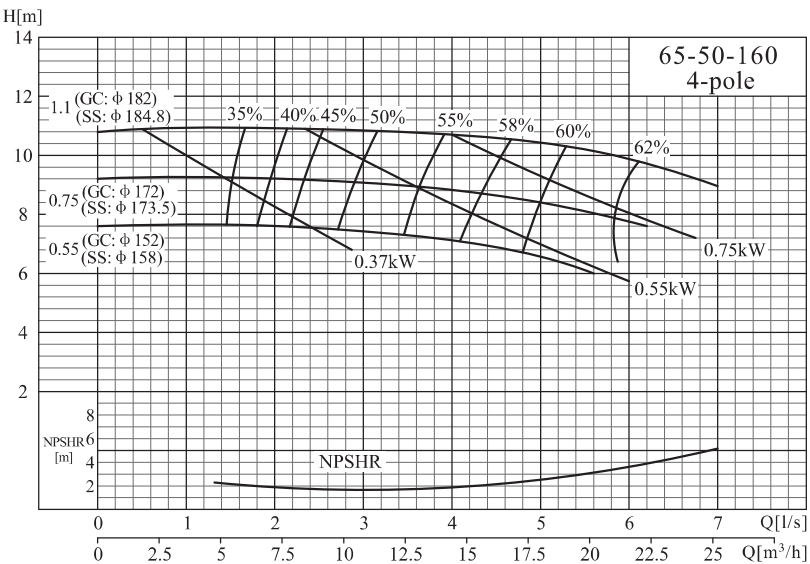
# Performance curve

NISO,NIS,NISF 65-40-250/65-40-315



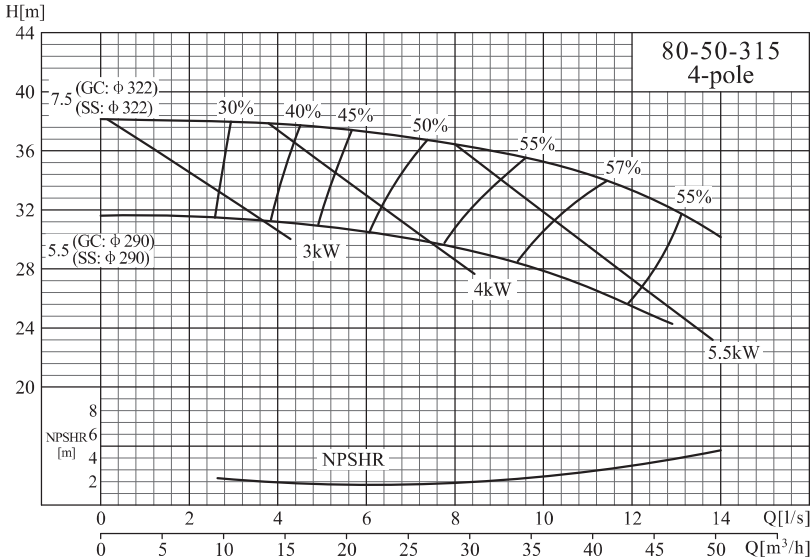
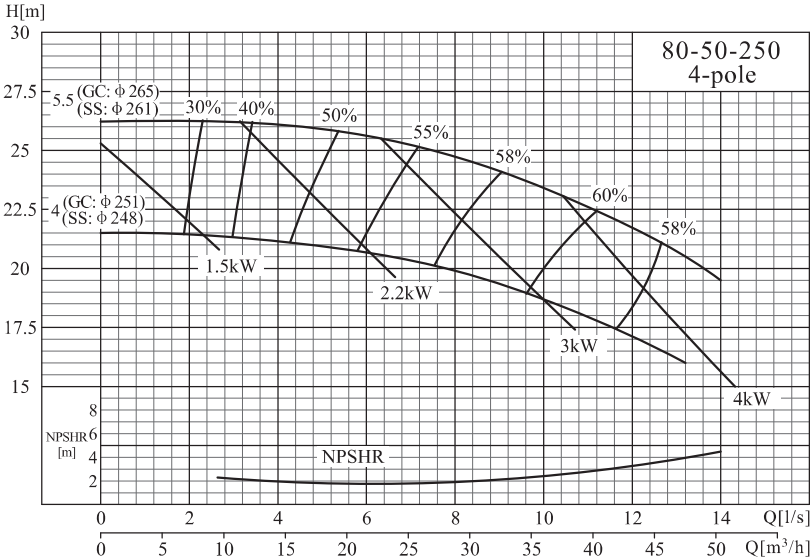
# Performance curve

NISO,NIS,NISF 65-50-160/80-50-200



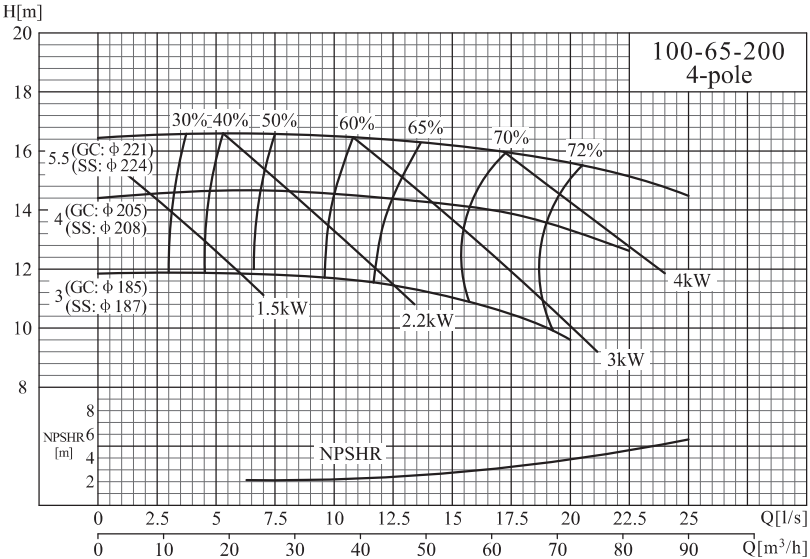
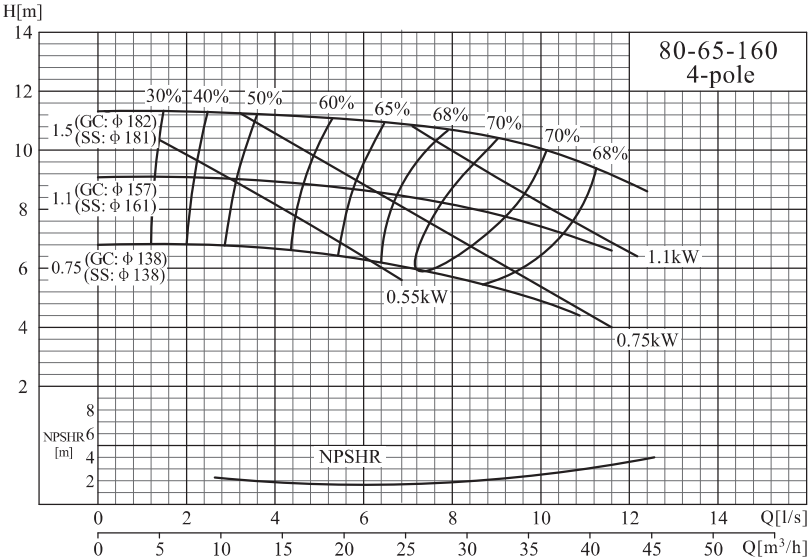
# Performance curve

NISO,NIS,NISF 80-50-250/80-50-315



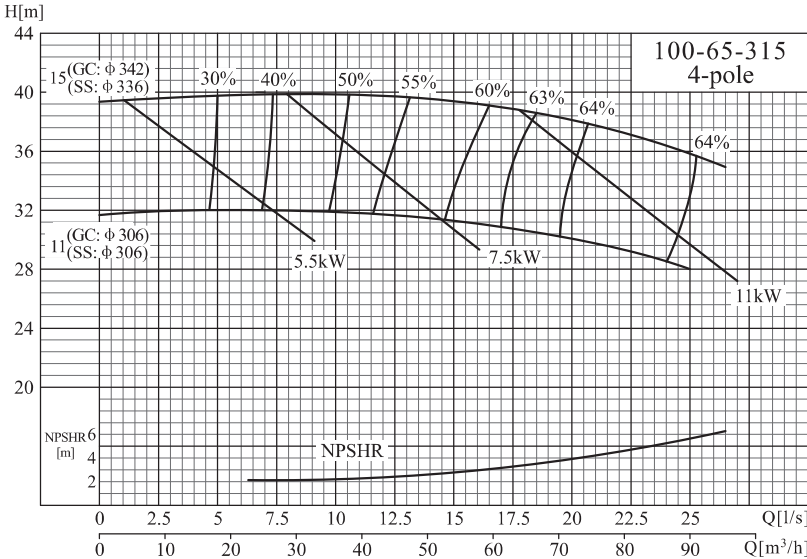
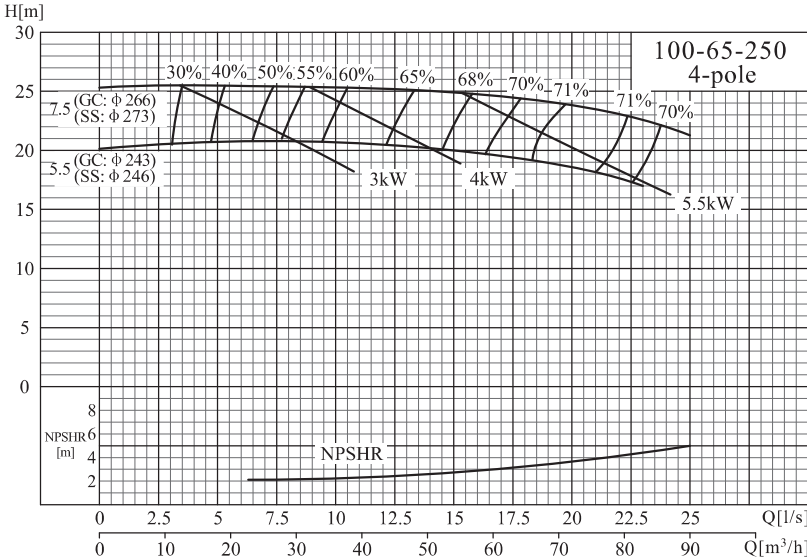
# Performance curve

NISO,NIS,NISF 80-65-160/100-65-200



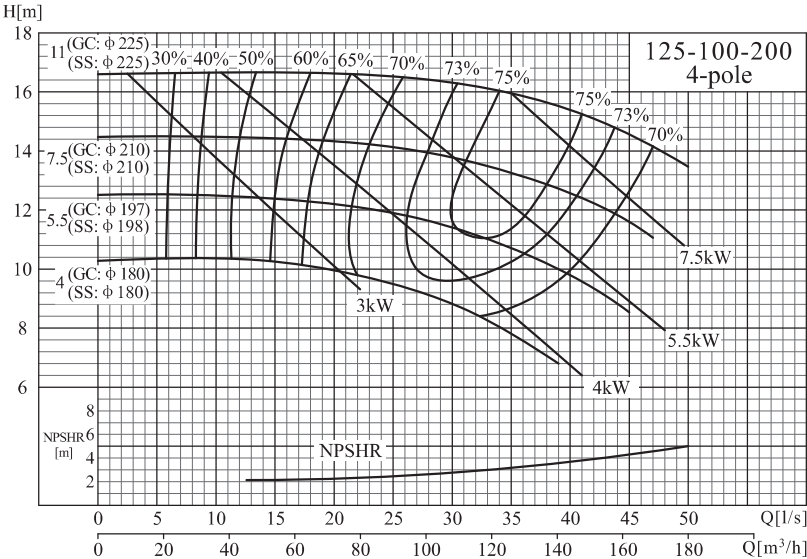
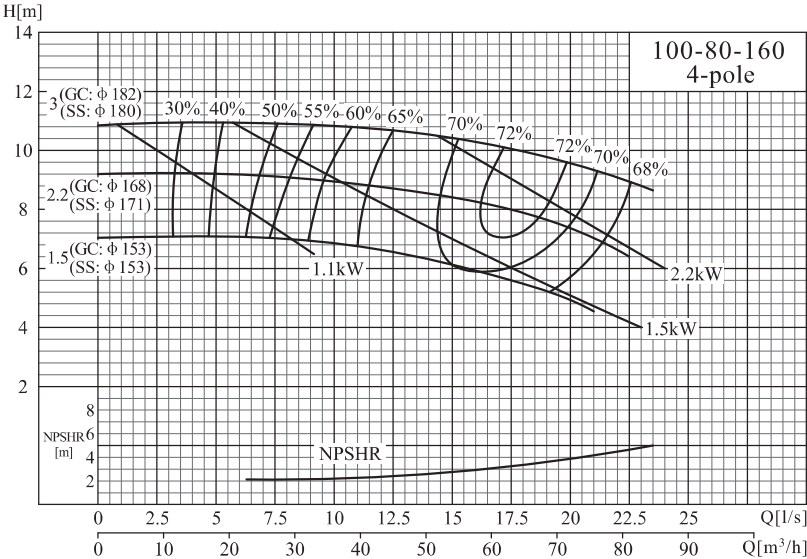
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NISO,NIS,NISF 100-65-250/100-65-315



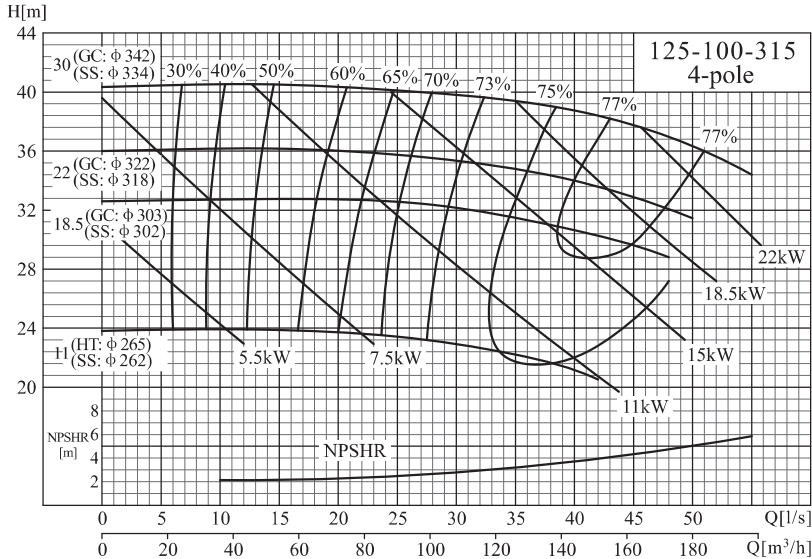
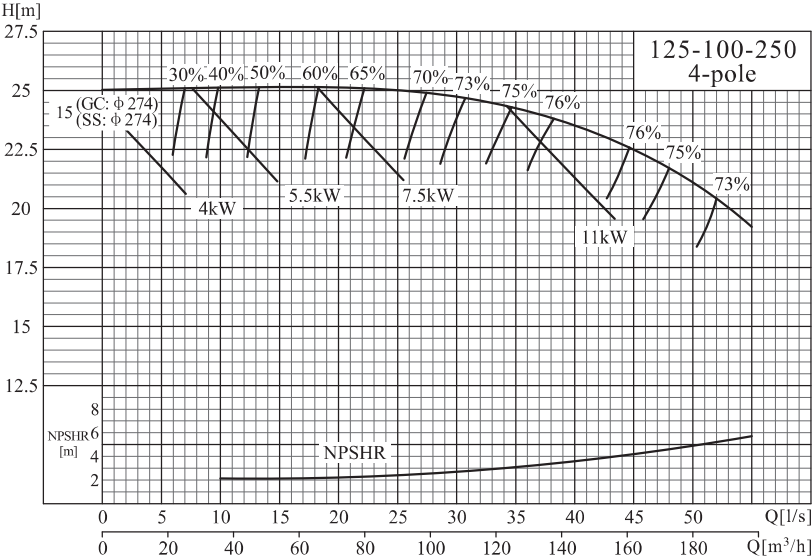
# Performance curve

NISO,NIS,NISF 100-80-160/125-100-200



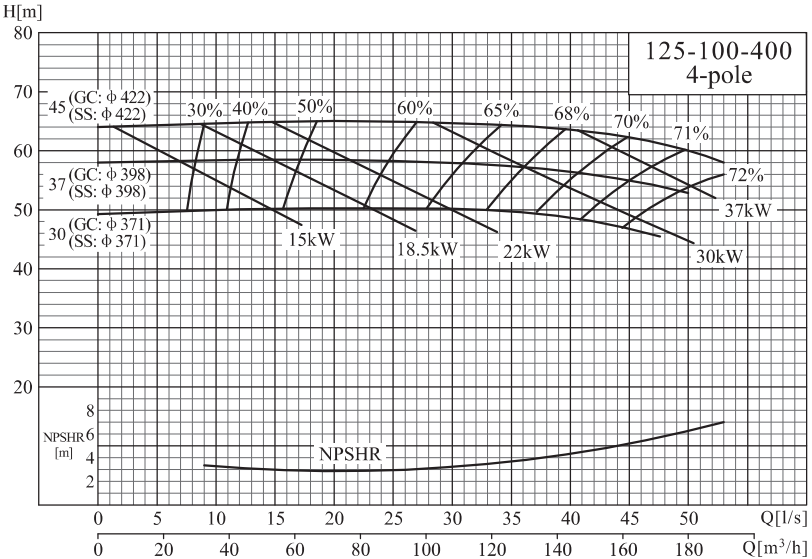
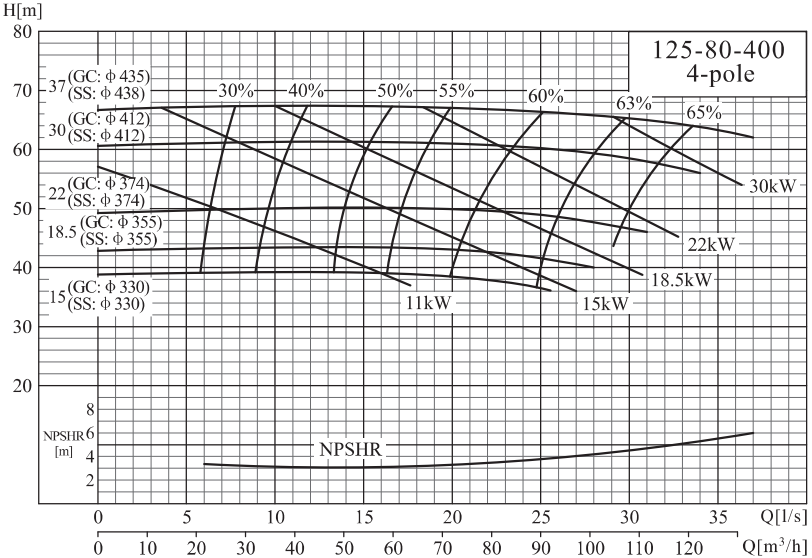
Performance curve

NISO,NIS,NISF 125-100-250/125-100-315



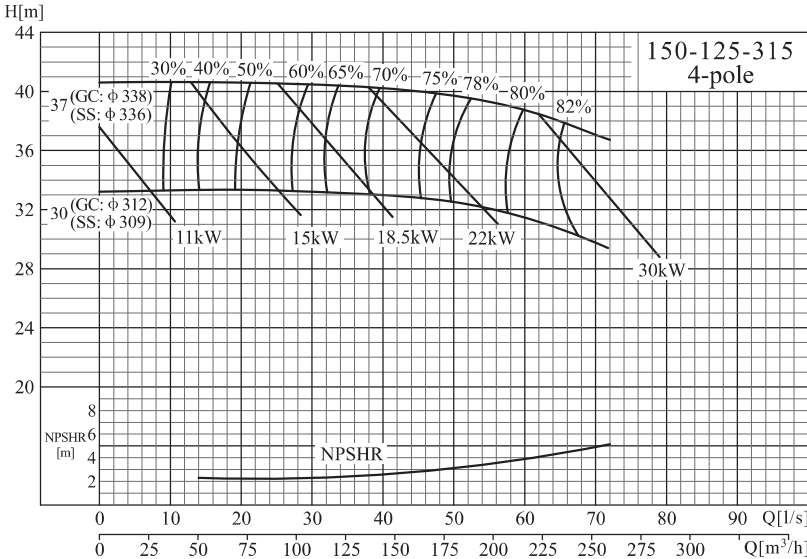
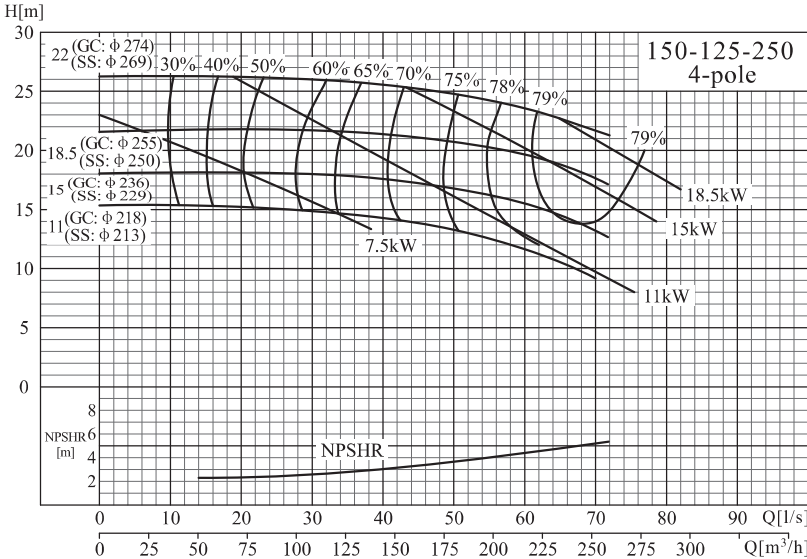
Performance curve

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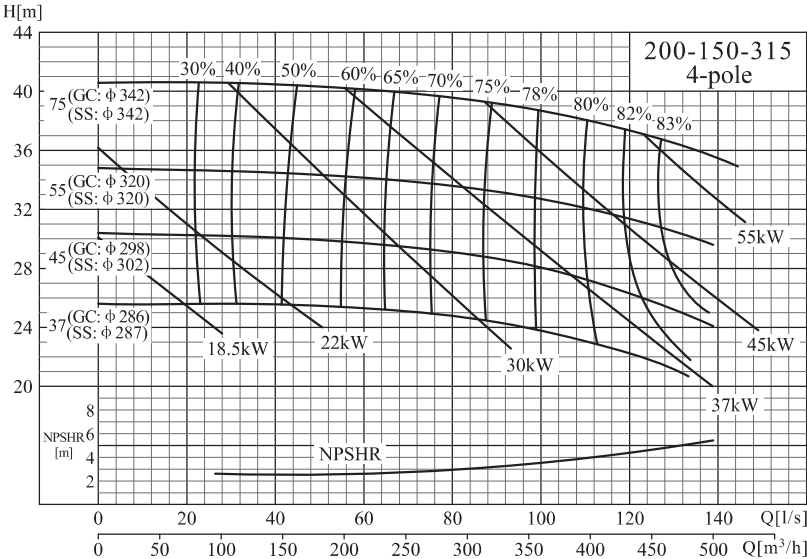
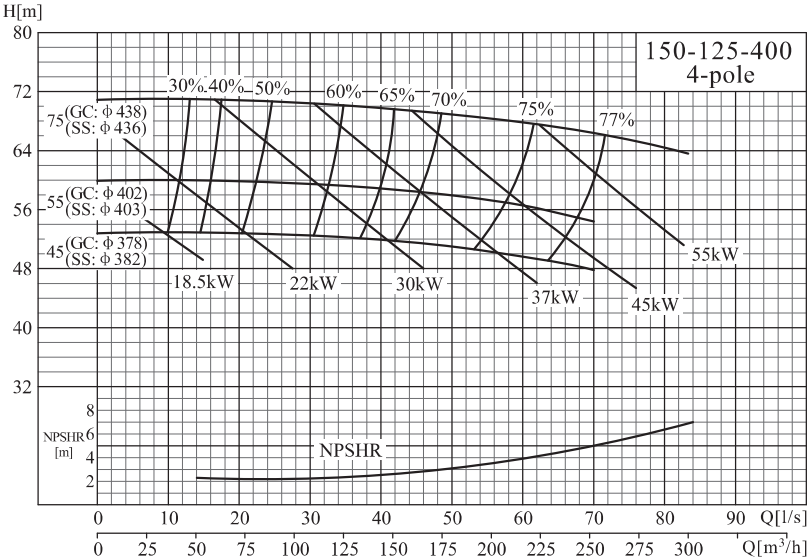
Performance curve

NISO,NIS,NISF 150-125-250/150-125-315



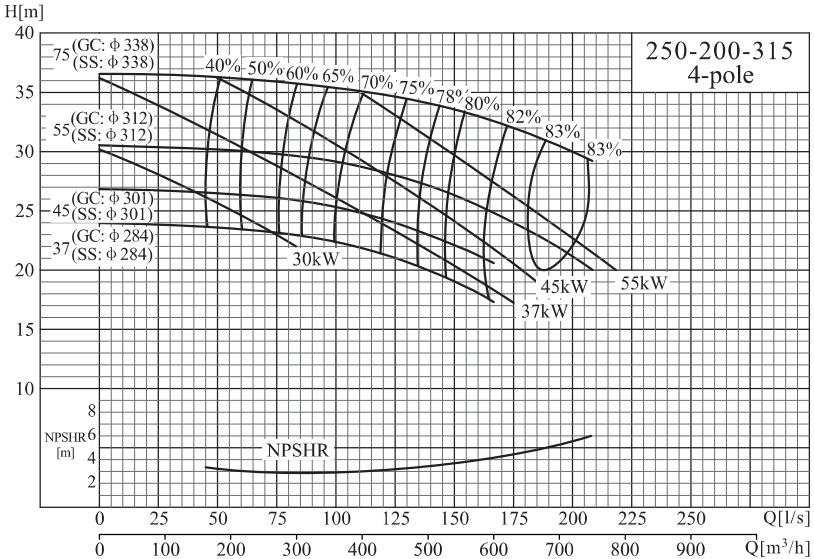
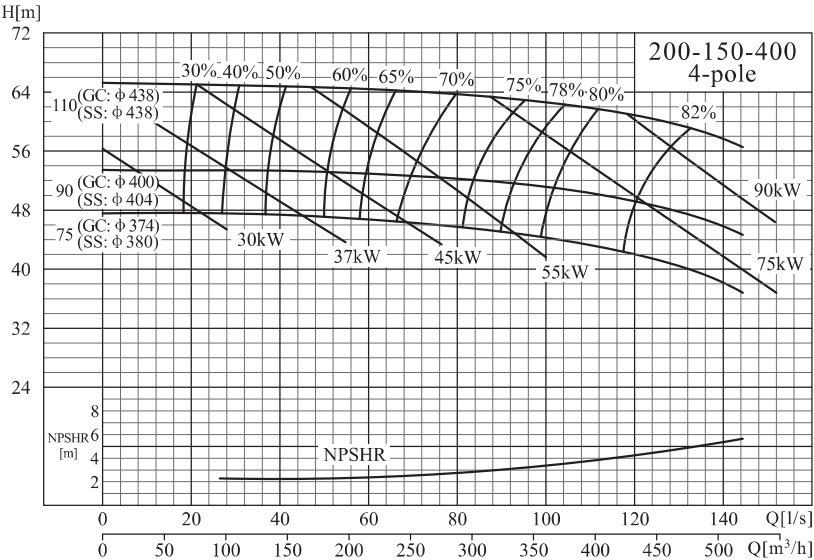
Performance curve

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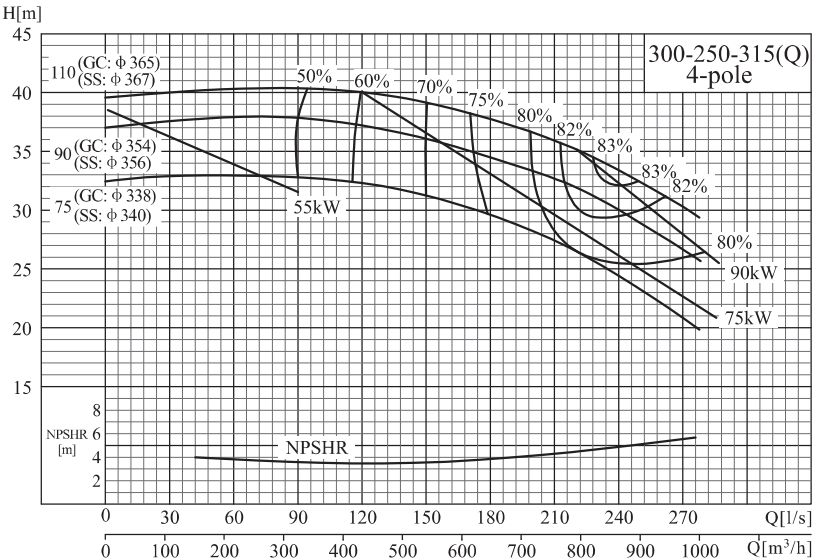
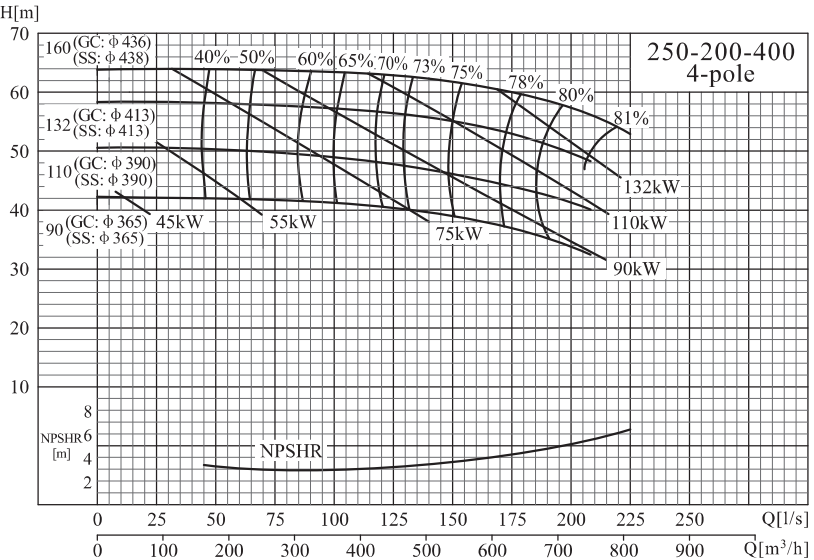
# Performance curve

NISO,NIS,NISF 200-150-400/250-200-315



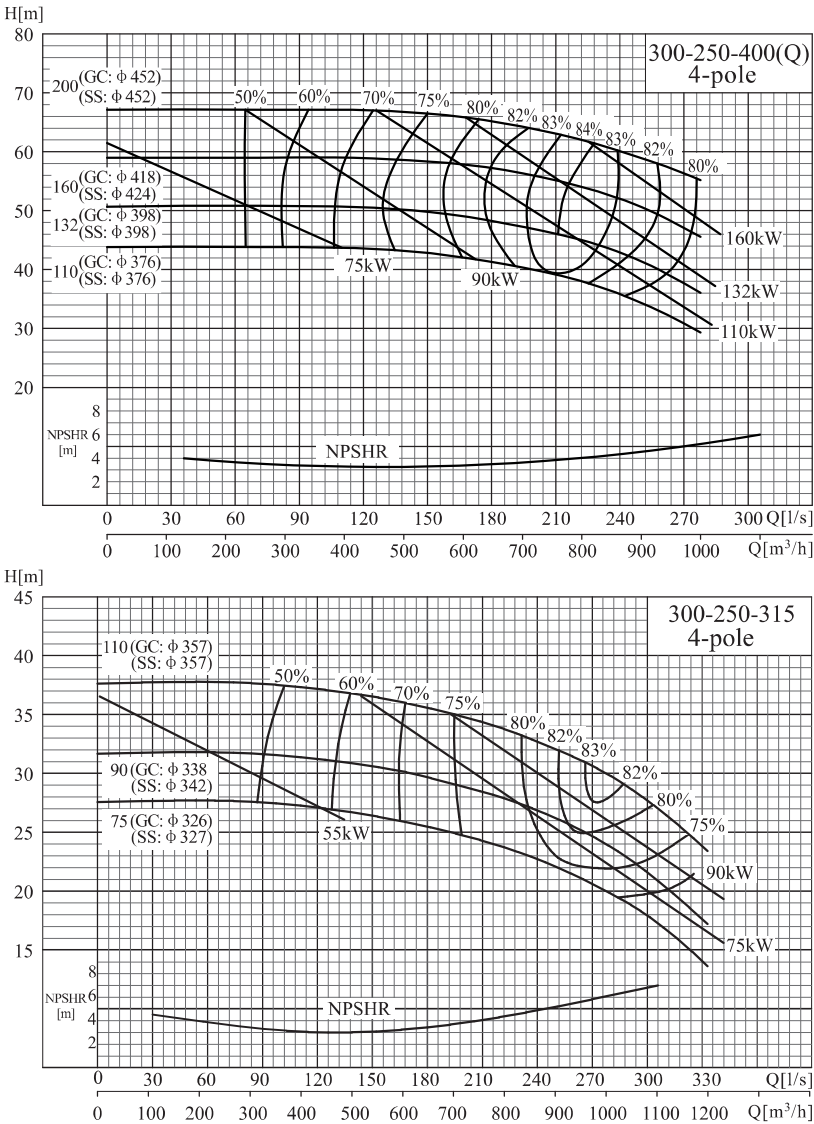
# Performance curve

NISO,NIS,NISF 250-200-400/300-250-315(Q)



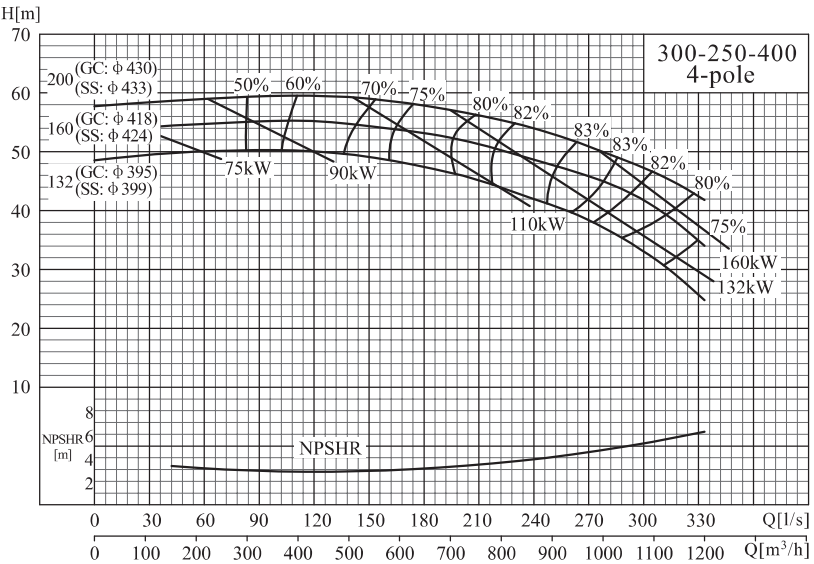
Performance curve

NISO,NIS,NISF 300-250-400(Q)/300-250-315

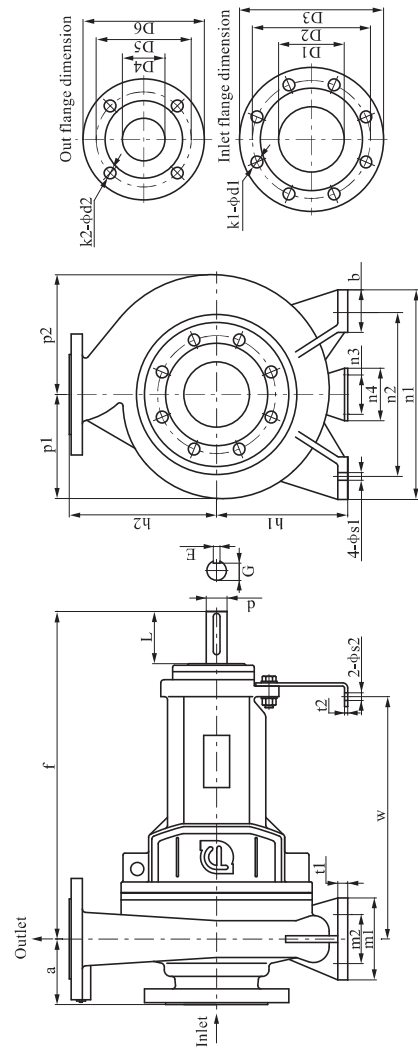


Performance curve

NISO,NIS,NISF 300-250-400



## NISO dimension drawing



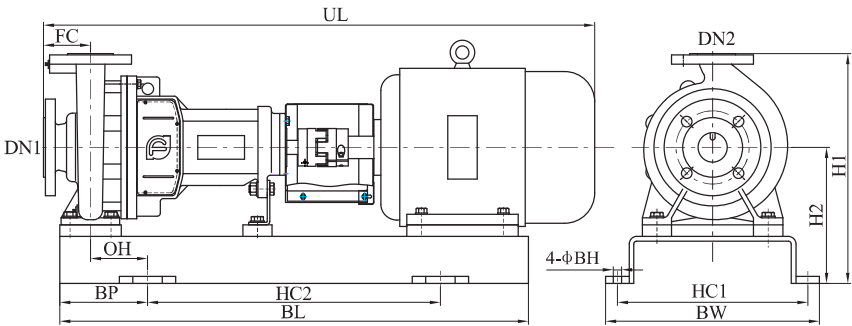
## NISO dimension table

| No. | Model          | Dimension |     |     |     |     |     | Pump base plate and installation dimension |     |     |     |     |     |     |    |    |     |    |    |
|-----|----------------|-----------|-----|-----|-----|-----|-----|--------------------------------------------|-----|-----|-----|-----|-----|-----|----|----|-----|----|----|
|     |                | a         | f   | h1  | h2  | b   | p1  | p2                                         | m1  | m2  | n1  | n2  | n3  | n4  | t1 | t2 | w   | s1 | s2 |
| 1   | 50-32-160      | 80        | 385 | 132 | 160 | 50  | 118 | 128                                        | 100 | 70  | 240 | 190 | 110 | 160 | 12 | 6  | 285 | 14 | 14 |
| 2   | 50-32-200      | 80        | 385 | 160 | 180 | 50  | 139 | 147                                        | 100 | 70  | 240 | 190 | 110 | 160 | 12 | 6  | 285 | 14 | 14 |
| 3   | 65-50-160      | 80        | 385 | 132 | 160 | 50  | 121 | 136                                        | 100 | 70  | 240 | 190 | 110 | 160 | 12 | 6  | 285 | 14 | 14 |
| 4   | 65-40-200      | 100       | 385 | 160 | 180 | 50  | 140 | 151                                        | 100 | 70  | 265 | 212 | 110 | 160 | 13 | 6  | 285 | 14 | 14 |
| 5   | 65-40-250      | 100       | 500 | 180 | 225 | 65  | 166 | 176                                        | 125 | 95  | 320 | 250 | 110 | 160 | 14 | 6  | 370 | 14 | 14 |
| 6   | 65-40-315      | 125       | 500 | 200 | 250 | 65  | 194 | 200                                        | 125 | 95  | 345 | 280 | 110 | 160 | 16 | 6  | 370 | 14 | 14 |
| 7   | 80-65-160      | 100       | 385 | 160 | 180 | 50  | 124 | 143                                        | 100 | 70  | 265 | 212 | 110 | 160 | 13 | 6  | 285 | 14 | 14 |
| 8   | 80-50-200      | 100       | 385 | 160 | 200 | 52  | 147 | 161                                        | 100 | 70  | 265 | 212 | 110 | 160 | 13 | 6  | 285 | 14 | 14 |
| 9   | 80-50-250      | 125       | 500 | 180 | 225 | 65  | 167 | 179                                        | 125 | 95  | 320 | 250 | 110 | 160 | 15 | 6  | 370 | 14 | 14 |
| 10  | 80-50-315      | 125       | 500 | 225 | 280 | 65  | 204 | 215                                        | 125 | 95  | 345 | 280 | 110 | 160 | 18 | 6  | 370 | 14 | 14 |
| 11  | 100-65-200     | 100       | 500 | 180 | 225 | 65  | 159 | 183                                        | 125 | 95  | 320 | 250 | 110 | 160 | 14 | 6  | 370 | 14 | 14 |
| 12  | 100-65-250     | 125       | 500 | 200 | 250 | 80  | 180 | 201                                        | 160 | 120 | 360 | 280 | 110 | 160 | 16 | 6  | 370 | 18 | 14 |
| 13  | 100-65-315     | 125       | 530 | 225 | 280 | 80  | 210 | 228                                        | 160 | 120 | 400 | 315 | 110 | 160 | 18 | 6  | 370 | 18 | 14 |
| 14  | 100-80-160     | 100       | 500 | 160 | 200 | 65  | 132 | 160                                        | 125 | 95  | 280 | 212 | 110 | 160 | 14 | 6  | 370 | 14 | 14 |
| 15  | 125-80-400     | 125       | 530 | 280 | 355 | 80  | 261 | 279                                        | 160 | 120 | 435 | 355 | 110 | 160 | 20 | 6  | 370 | 18 | 14 |
| 16  | 125-100-200    | 125       | 500 | 200 | 280 | 80  | 175 | 210                                        | 160 | 120 | 360 | 280 | 110 | 160 | 17 | 6  | 370 | 18 | 14 |
| 17  | 125-100-250    | 140       | 530 | 225 | 280 | 80  | 193 | 225                                        | 160 | 120 | 400 | 315 | 110 | 160 | 18 | 6  | 370 | 18 | 14 |
| 18  | 125-100-315    | 140       | 530 | 250 | 315 | 80  | 224 | 250                                        | 160 | 120 | 400 | 315 | 110 | 160 | 19 | 6  | 370 | 18 | 14 |
| 19  | 125-100-400    | 140       | 530 | 280 | 355 | 100 | 265 | 287                                        | 200 | 150 | 500 | 400 | 110 | 160 | 20 | 6  | 370 | 18 | 14 |
| 20  | 150-125-250    | 140       | 530 | 250 | 355 | 80  | 204 | 244                                        | 160 | 120 | 400 | 315 | 110 | 160 | 19 | 6  | 370 | 18 | 14 |
| 21  | 150-125-315    | 140       | 530 | 280 | 355 | 100 | 236 | 271                                        | 200 | 150 | 500 | 400 | 110 | 160 | 20 | 6  | 370 | 22 | 14 |
| 22  | 150-125-400    | 140       | 530 | 315 | 400 | 100 | 273 | 301                                        | 200 | 150 | 500 | 400 | 110 | 160 | 21 | 6  | 370 | 22 | 14 |
| 23  | 200-150-315    | 160       | 670 | 315 | 400 | 82  | 255 | 304                                        | 200 | 150 | 515 | 450 | 140 | 180 | 25 | 10 | 500 | 22 | 18 |
| 24  | 200-150-400    | 160       | 670 | 315 | 450 | 82  | 291 | 330                                        | 200 | 150 | 515 | 450 | 140 | 180 | 25 | 10 | 500 | 22 | 18 |
| 25  | 250-200-315    | 180       | 670 | 315 | 450 | 82  | 278 | 344                                        | 200 | 150 | 515 | 450 | 140 | 180 | 25 | 10 | 500 | 22 | 18 |
| 26  | 250-200-400    | 180       | 670 | 380 | 450 | 82  | 314 | 367                                        | 200 | 150 | 515 | 450 | 140 | 180 | 25 | 10 | 500 | 22 | 18 |
| 27  | 300-250-315(Q) | 225       | 698 | 375 | 455 | 120 | 303 | 381                                        | 300 | 250 | 710 | 600 | 140 | 180 | 25 | 10 | 528 | 28 | 18 |
| 28  | 300-250-400(Q) | 225       | 676 | 425 | 500 | 120 | 328 | 395                                        | 300 | 250 | 710 | 600 | 140 | 180 | 25 | 12 | 506 | 28 | 18 |
| 29  | 300-250-315    | 225       | 698 | 375 | 455 | 120 | 303 | 381                                        | 300 | 250 | 710 | 600 | 140 | 180 | 25 | 10 | 528 | 28 | 18 |
| 30  | 300-250-400    | 225       | 676 | 425 | 500 | 120 | 328 | 395                                        | 300 | 250 | 710 | 600 | 140 | 180 | 25 | 12 | 506 | 28 | 18 |

### NISO dimension table

| No. | Model          | Inlet flange dimension |     |     |    |    | Outlet flange dimension |     |     |    |    | Shaft extension dimension |     |    |    | Weight (kg) |
|-----|----------------|------------------------|-----|-----|----|----|-------------------------|-----|-----|----|----|---------------------------|-----|----|----|-------------|
|     |                | D1                     | D2  | D3  | k1 | d1 | D4                      | D5  | D6  | k2 | d2 | D                         | L   | E  | G  |             |
| 1   | 50-32-160      | 50                     | 125 | 165 | 4  | 18 | 32                      | 100 | 140 | 4  | 18 | 24                        | 50  | 8  | 20 | 38          |
| 2   | 50-32-200      | 50                     | 125 | 165 | 4  | 18 | 32                      | 100 | 140 | 4  | 18 | 24                        | 50  | 8  | 20 | 43          |
| 3   | 65-50-160      | 65                     | 145 | 185 | 4  | 18 | 50                      | 125 | 165 | 4  | 18 | 24                        | 50  | 8  | 20 | 41          |
| 4   | 65-40-200      | 65                     | 145 | 185 | 4  | 18 | 40                      | 110 | 150 | 4  | 18 | 24                        | 50  | 8  | 20 | 45          |
| 5   | 65-40-250      | 65                     | 145 | 185 | 4  | 18 | 40                      | 110 | 150 | 4  | 18 | 32                        | 80  | 10 | 27 | 68          |
| 6   | 65-40-315      | 65                     | 145 | 185 | 4  | 18 | 40                      | 110 | 150 | 4  | 18 | 32                        | 80  | 10 | 27 | 84          |
| 7   | 80-65-160      | 80                     | 160 | 200 | 8  | 18 | 65                      | 145 | 185 | 4  | 18 | 24                        | 50  | 8  | 20 | 44          |
| 8   | 80-50-200      | 80                     | 160 | 200 | 8  | 18 | 50                      | 125 | 165 | 4  | 18 | 24                        | 50  | 8  | 20 | 48          |
| 9   | 80-50-250      | 80                     | 160 | 200 | 8  | 18 | 50                      | 125 | 165 | 4  | 18 | 32                        | 80  | 10 | 27 | 71          |
| 10  | 80-50-315      | 80                     | 160 | 200 | 8  | 18 | 50                      | 125 | 165 | 4  | 18 | 32                        | 80  | 10 | 27 | 90          |
| 11  | 100-65-200     | 100                    | 180 | 220 | 8  | 18 | 65                      | 145 | 185 | 4  | 18 | 32                        | 80  | 10 | 27 | 67          |
| 12  | 100-65-250     | 100                    | 180 | 220 | 8  | 18 | 65                      | 145 | 185 | 4  | 18 | 32                        | 80  | 10 | 27 | 82          |
| 13  | 100-65-315     | 100                    | 180 | 220 | 8  | 18 | 65                      | 145 | 185 | 4  | 18 | 42                        | 110 | 12 | 37 | 120         |
| 14  | 100-80-160     | 100                    | 180 | 220 | 8  | 18 | 80                      | 160 | 200 | 8  | 18 | 32                        | 80  | 10 | 27 | 70          |
| 15  | 125-80-400     | 125                    | 210 | 250 | 8  | 18 | 80                      | 160 | 200 | 8  | 18 | 42                        | 110 | 12 | 37 | 158         |
| 16  | 125-100-200    | 125                    | 210 | 250 | 8  | 18 | 100                     | 180 | 220 | 8  | 18 | 32                        | 80  | 10 | 27 | 88          |
| 17  | 125-100-250    | 125                    | 210 | 250 | 8  | 18 | 100                     | 180 | 220 | 8  | 18 | 42                        | 110 | 12 | 37 | 122         |
| 18  | 125-100-315    | 125                    | 210 | 250 | 8  | 18 | 100                     | 180 | 220 | 8  | 18 | 42                        | 110 | 12 | 37 | 137         |
| 19  | 125-100-400    | 125                    | 210 | 250 | 8  | 18 | 100                     | 180 | 220 | 8  | 18 | 42                        | 110 | 12 | 37 | 163         |
| 20  | 150-125-250    | 150                    | 240 | 285 | 8  | 22 | 125                     | 210 | 250 | 8  | 18 | 42                        | 106 | 12 | 37 | 129         |
| 21  | 150-125-315    | 150                    | 240 | 285 | 8  | 22 | 125                     | 210 | 250 | 8  | 18 | 42                        | 106 | 12 | 37 | 157         |
| 22  | 150-125-400    | 150                    | 240 | 285 | 8  | 22 | 125                     | 210 | 250 | 8  | 18 | 42                        | 106 | 12 | 37 | 181         |
| 23  | 200-150-315    | 200                    | 295 | 340 | 12 | 22 | 150                     | 240 | 285 | 8  | 22 | 60                        | 110 | 18 | 53 | 222         |
| 24  | 200-150-400    | 200                    | 295 | 340 | 12 | 22 | 150                     | 240 | 285 | 8  | 22 | 60                        | 110 | 18 | 53 | 293         |
| 25  | 250-200-315    | 250                    | 355 | 405 | 12 | 26 | 200                     | 295 | 340 | 12 | 22 | 60                        | 110 | 18 | 53 | 258         |
| 26  | 250-200-400    | 250                    | 355 | 405 | 12 | 26 | 200                     | 295 | 340 | 12 | 22 | 60                        | 110 | 18 | 53 | 328         |
| 27  | 300-250-315(Q) | 300                    | 410 | 460 | 12 | 27 | 250                     | 355 | 405 | 12 | 27 | 60                        | 108 | 18 | 53 | 528         |
| 28  | 300-250-400(Q) | 300                    | 410 | 460 | 12 | 27 | 250                     | 355 | 405 | 12 | 27 | 60                        | 108 | 18 | 53 | 632         |
| 29  | 300-250-315    | 300                    | 410 | 460 | 12 | 27 | 250                     | 355 | 405 | 12 | 27 | 60                        | 108 | 18 | 53 | 528         |
| 30  | 300-250-400    | 300                    | 410 | 460 | 12 | 27 | 250                     | 355 | 405 | 12 | 27 | 60                        | 108 | 18 | 53 | 632         |

### NISO pump set dimension drawing



### NISO pump set dimension table

| Model     | Power (kW) | H1  | H2  | HC1 | HC2 | BW  | BL   | BP  | BH | OH    | UL   | FC  | DN1 | DN2 | 2-pole            |
|-----------|------------|-----|-----|-----|-----|-----|------|-----|----|-------|------|-----|-----|-----|-------------------|
|           |            |     |     |     |     |     |      |     |    |       |      |     |     |     | Total weight (kg) |
| 50-32-160 | 3          | 392 | 232 | 296 | 500 | 336 | 750  | 125 | 14 | 72.5  | 857  | 80  | 50  | 32  | 95                |
|           | 4          | 392 | 232 | 296 | 500 | 336 | 750  | 125 | 14 | 72.5  | 875  | 80  | 50  | 32  | 109               |
|           | 5.5        | 392 | 232 | 325 | 500 | 365 | 800  | 150 | 14 | 97.5  | 941  | 80  | 50  | 32  | 133               |
| 50-32-200 | 7.5        | 440 | 243 | 340 | 600 | 380 | 860  | 130 | 14 | 77.5  | 941  | 80  | 50  | 32  | 146               |
|           | 11         | 440 | 260 | 380 | 600 | 420 | 950  | 175 | 18 | 121   | 1077 | 80  | 50  | 32  | 190               |
| 65-40-200 | 7.5        | 440 | 260 | 325 | 500 | 365 | 800  | 150 | 14 | 97.5  | 961  | 100 | 65  | 40  | 145               |
|           | 11         | 440 | 260 | 380 | 600 | 420 | 950  | 175 | 18 | 121   | 1097 | 100 | 65  | 40  | 192               |
|           | 15         | 440 | 260 | 380 | 600 | 420 | 950  | 175 | 18 | 121   | 1097 | 100 | 65  | 40  | 208               |
| 65-40-250 | 18.5       | 505 | 280 | 380 | 800 | 420 | 1080 | 140 | 18 | 73.5  | 1282 | 100 | 65  | 40  | 255               |
|           | 22         | 505 | 280 | 420 | 800 | 480 | 1100 | 150 | 18 | 81.5  | 1319 | 100 | 65  | 40  | 291               |
|           | 30         | 525 | 300 | 460 | 800 | 500 | 1180 | 190 | 18 | 121.5 | 1379 | 100 | 65  | 40  | 363               |
| 65-40-315 | 22         | 550 | 300 | 420 | 800 | 460 | 1100 | 150 | 18 | 81.5  | 1344 | 125 | 65  | 40  | 307               |
|           | 30         | 570 | 320 | 455 | 800 | 495 | 1200 | 200 | 18 | 131.5 | 1412 | 125 | 65  | 40  | 392               |
|           | 37         | 570 | 320 | 455 | 800 | 495 | 1200 | 200 | 18 | 131.5 | 1412 | 125 | 65  | 40  | 403               |
|           | 45         | 590 | 340 | 510 | 800 | 560 | 1250 | 225 | 22 | 155   | 1466 | 125 | 65  | 40  | 453               |
| 65-50-160 | 4          | 392 | 232 | 296 | 500 | 336 | 750  | 125 | 14 | 72.5  | 875  | 80  | 65  | 50  | 112               |
|           | 5.5        | 392 | 232 | 325 | 500 | 365 | 800  | 150 | 14 | 97.5  | 941  | 80  | 65  | 50  | 135               |
|           | 7.5        | 392 | 232 | 325 | 500 | 365 | 800  | 150 | 14 | 97.5  | 941  | 80  | 65  | 50  | 141               |

NISO pump set dimension table

| 2-pole      |            |     |     |     |      |     |      |     |    |       |      |     |     |     |                   |
|-------------|------------|-----|-----|-----|------|-----|------|-----|----|-------|------|-----|-----|-----|-------------------|
| Model       | Power (kW) | H1  | H2  | HC1 | HC2  | BW  | BL   | BP  | BH | OH    | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 80-50-200   | 11         | 460 | 260 | 380 | 600  | 420 | 950  | 175 | 18 | 121   | 1097 | 100 | 80  | 50  | 194               |
|             | 15         | 460 | 260 | 380 | 600  | 420 | 950  | 175 | 18 | 121   | 1097 | 100 | 80  | 50  | 210               |
|             | 18.5       | 460 | 260 | 380 | 600  | 420 | 950  | 175 | 18 | 121   | 1137 | 100 | 80  | 50  | 222               |
|             | 22         | 480 | 280 | 420 | 700  | 460 | 1000 | 150 | 18 | 96    | 1194 | 100 | 80  | 50  | 268               |
| 80-50-250   | 30         | 525 | 300 | 460 | 800  | 500 | 1180 | 190 | 18 | 121.5 | 1404 | 125 | 80  | 50  | 367               |
|             | 37         | 525 | 300 | 460 | 800  | 495 | 1180 | 190 | 18 | 121.5 | 1404 | 125 | 80  | 50  | 377               |
| 80-50-315   | 37         | 625 | 345 | 455 | 800  | 495 | 1200 | 200 | 18 | 131.5 | 1402 | 125 | 80  | 50  | 410               |
|             | 45         | 625 | 345 | 510 | 800  | 560 | 1250 | 225 | 22 | 155   | 1466 | 125 | 80  | 50  | 451               |
|             | 55         | 650 | 370 | 575 | 900  | 625 | 1300 | 200 | 22 | 130   | 1547 | 125 | 80  | 50  | 573               |
|             | 75         | 680 | 400 | 620 | 800  | 670 | 1400 | 300 | 22 | 230   | 1620 | 125 | 80  | 50  | 703               |
| 80-65-160   | 5.5        | 440 | 260 | 325 | 500  | 365 | 800  | 150 | 14 | 97.5  | 961  | 100 | 80  | 65  | 139               |
|             | 7.5        | 440 | 260 | 325 | 500  | 365 | 800  | 150 | 14 | 97.5  | 961  | 100 | 80  | 65  | 144               |
|             | 11         | 440 | 260 | 380 | 600  | 420 | 950  | 175 | 18 | 121   | 1097 | 100 | 80  | 65  | 191               |
|             | 15         | 440 | 260 | 380 | 600  | 420 | 950  | 175 | 18 | 121   | 1097 | 100 | 80  | 65  | 206               |
| 100-65-200  | 18.5       | 505 | 280 | 380 | 800  | 420 | 1080 | 140 | 18 | 73.5  | 1282 | 100 | 100 | 65  | 254               |
|             | 22         | 505 | 280 | 420 | 800  | 460 | 1100 | 150 | 18 | 81.5  | 1319 | 100 | 100 | 65  | 290               |
|             | 30         | 525 | 300 | 460 | 800  | 500 | 1180 | 190 | 18 | 121.5 | 1379 | 100 | 100 | 65  | 362               |
|             | 37         | 525 | 300 | 460 | 800  | 500 | 1180 | 190 | 18 | 121.5 | 1379 | 100 | 100 | 65  | 372               |
| 100-65-250  | 45         | 590 | 340 | 510 | 800  | 550 | 1250 | 225 | 22 | 141.5 | 1466 | 125 | 100 | 65  | 444               |
|             | 55         | 620 | 370 | 575 | 900  | 625 | 1350 | 225 | 22 | 141.5 | 1547 | 125 | 100 | 65  | 576               |
|             | 75         | 650 | 400 | 620 | 800  | 670 | 1400 | 300 | 22 | 214   | 1620 | 125 | 100 | 65  | 695               |
| 100-65-315  | 90         | 680 | 400 | 620 | 900  | 670 | 1450 | 275 | 22 | 189   | 1700 | 125 | 100 | 65  | 771               |
|             | 110        | 720 | 440 | 710 | 1000 | 760 | 1500 | 250 | 22 | 164   | 1909 | 125 | 100 | 65  | 1278              |
| 100-80-160  | 11         | 460 | 260 | 380 | 800  | 420 | 1080 | 140 | 18 | 73.5  | 1212 | 100 | 100 | 80  | 221               |
|             | 15         | 460 | 260 | 380 | 800  | 420 | 1080 | 140 | 18 | 73.5  | 1212 | 100 | 100 | 80  | 237               |
|             | 18.5       | 460 | 260 | 380 | 800  | 420 | 1080 | 140 | 18 | 73.5  | 1282 | 100 | 100 | 80  | 253               |
|             | 22         | 480 | 280 | 420 | 800  | 460 | 1100 | 150 | 18 | 83.5  | 1319 | 100 | 100 | 80  | 293               |
| 125-100-200 | 30         | 600 | 320 | 455 | 800  | 495 | 1200 | 200 | 18 | 119   | 1412 | 125 | 125 | 100 | 390               |
|             | 37         | 600 | 320 | 455 | 800  | 495 | 1200 | 200 | 18 | 119   | 1412 | 125 | 125 | 100 | 400               |
|             | 45         | 620 | 340 | 510 | 800  | 560 | 1250 | 225 | 22 | 141.5 | 1466 | 125 | 125 | 100 | 449               |
|             | 55         | 650 | 370 | 575 | 900  | 625 | 1350 | 225 | 22 | 141.5 | 1547 | 125 | 125 | 100 | 580               |
|             | 75         | 680 | 400 | 620 | 800  | 670 | 1400 | 300 | 22 | 214   | 1620 | 125 | 125 | 100 | 699               |

NISO pump set dimension table

| 2-pole      |            |     |     |     |      |     |      |     |    |       |      |     |     |     |                   |
|-------------|------------|-----|-----|-----|------|-----|------|-----|----|-------|------|-----|-----|-----|-------------------|
| Model       | Power (kW) | H1  | H2  | HC1 | HC2  | BW  | BL   | BP  | BH | OH    | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 125-100-250 | 75         | 680 | 400 | 620 | 800  | 670 | 1400 | 300 | 22 | 214   | 1665 | 140 | 125 | 100 | 734               |
|             | 90         | 680 | 400 | 620 | 900  | 670 | 1450 | 275 | 22 | 189   | 1715 | 140 | 125 | 100 | 774               |
|             | 110        | 720 | 440 | 710 | 1000 | 760 | 1500 | 250 | 22 | 164   | 1924 | 140 | 125 | 100 | 1278              |
|             | 132        | 755 | 440 | 710 | 1000 | 760 | 1560 | 280 | 22 | 194   | 2034 | 140 | 125 | 100 | 1344              |
| 125-100-315 | 90         | 715 | 400 | 620 | 900  | 670 | 1450 | 275 | 22 | 189   | 1715 | 140 | 125 | 100 | 784               |
|             | 110        | 755 | 440 | 710 | 1000 | 760 | 1500 | 250 | 22 | 164   | 1909 | 140 | 125 | 100 | 1238              |
|             | 160        | 755 | 440 | 710 | 1000 | 760 | 1560 | 280 | 22 | 194   | 2034 | 140 | 125 | 100 | 1441              |
| 4-pole      |            |     |     |     |      |     |      |     |    |       |      |     |     |     |                   |
| Model       | Power (kW) | H1  | H2  | HC1 | HC2  | BW  | BL   | BP  | BH | OH    | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 50-32-160   | 0.55       | 392 | 232 | 296 | 500  | 336 | 700  | 100 | 14 | 47.5  | 755  | 80  | 50  | 32  | 78                |
|             | 0.75       | 392 | 232 | 296 | 500  | 336 | 700  | 100 | 14 | 47.5  | 755  | 80  | 50  | 32  | 79                |
| 50-32-200   | 1.1        | 440 | 260 | 296 | 500  | 336 | 750  | 125 | 14 | 72.5  | 794  | 80  | 50  | 32  | 89                |
|             | 1.5        | 440 | 260 | 296 | 500  | 336 | 750  | 125 | 14 | 72.5  | 819  | 80  | 50  | 32  | 91                |
| 65-40-200   | 1.1        | 440 | 260 | 325 | 500  | 365 | 750  | 125 | 14 | 72.5  | 824  | 100 | 65  | 40  | 92                |
|             | 1.5        | 440 | 260 | 325 | 500  | 365 | 750  | 125 | 14 | 72.5  | 849  | 100 | 65  | 40  | 94                |
|             | 2.2        | 440 | 260 | 325 | 500  | 365 | 750  | 125 | 14 | 72.5  | 887  | 100 | 65  | 40  | 107               |
| 65-40-250   | 3          | 505 | 280 | 376 | 600  | 416 | 920  | 160 | 14 | 95    | 992  | 100 | 65  | 40  | 141               |
| 65-40-315   | 4          | 550 | 300 | 405 | 600  | 445 | 900  | 150 | 14 | 85    | 1045 | 125 | 65  | 40  | 171               |
|             | 5.5        | 550 | 300 | 405 | 600  | 445 | 950  | 175 | 14 | 110   | 1101 | 125 | 65  | 40  | 192               |
| 65-50-160   | 0.55       | 392 | 232 | 296 | 500  | 336 | 700  | 100 | 14 | 47.5  | 755  | 80  | 65  | 50  | 81                |
|             | 0.75       | 392 | 232 | 296 | 500  | 336 | 700  | 100 | 14 | 47.5  | 755  | 80  | 65  | 50  | 81                |
|             | 1.1        | 392 | 232 | 296 | 500  | 336 | 700  | 100 | 14 | 47.5  | 794  | 80  | 65  | 50  | 85                |
| 80-50-200   | 1.5        | 460 | 260 | 325 | 500  | 365 | 750  | 125 | 14 | 72.5  | 849  | 100 | 80  | 50  | 96                |
|             | 2.2        | 460 | 260 | 325 | 500  | 365 | 750  | 125 | 14 | 72.5  | 877  | 100 | 80  | 50  | 109               |
|             | 3          | 460 | 260 | 325 | 500  | 365 | 750  | 125 | 14 | 72.5  | 877  | 100 | 80  | 50  | 113               |
| 80-50-250   | 4          | 505 | 280 | 376 | 600  | 416 | 920  | 160 | 14 | 95    | 1042 | 125 | 80  | 50  | 155               |
|             | 5.5        | 505 | 280 | 376 | 600  | 416 | 920  | 160 | 14 | 95    | 1107 | 125 | 80  | 50  | 173               |
| 80-50-315   | 5.5        | 605 | 325 | 405 | 600  | 445 | 950  | 175 | 18 | 108.5 | 1101 | 125 | 80  | 50  | 199               |
|             | 7.5        | 605 | 325 | 405 | 600  | 445 | 950  | 175 | 18 | 108.5 | 1141 | 125 | 80  | 50  | 211               |
| 80-65-160   | 0.75       | 440 | 260 | 325 | 500  | 365 | 700  | 100 | 14 | 47.5  | 775  | 100 | 80  | 65  | 84                |
|             | 1.1        | 440 | 260 | 325 | 500  | 365 | 750  | 125 | 14 | 72.5  | 824  | 100 | 80  | 65  | 91                |
|             | 1.5        | 440 | 260 | 325 | 500  | 365 | 750  | 125 | 14 | 72.5  | 849  | 100 | 80  | 65  | 93                |

NISO pump set dimension table

| 4-pole      |            |     |     |     |     |     |      |     |    |       |      |     |     |     |                   |
|-------------|------------|-----|-----|-----|-----|-----|------|-----|----|-------|------|-----|-----|-----|-------------------|
| Model       | Power (kW) | H1  | H2  | HC1 | HC2 | BW  | BL   | BP  | BH | OH    | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 100-65-200  | 3          | 505 | 280 | 376 | 600 | 416 | 920  | 160 | 14 | 95    | 992  | 100 | 100 | 65  | 140               |
|             | 4          | 505 | 280 | 376 | 600 | 416 | 920  | 160 | 14 | 95    | 1017 | 100 | 100 | 65  | 150               |
|             | 5.5        | 505 | 280 | 376 | 600 | 416 | 920  | 160 | 14 | 95    | 1082 | 100 | 100 | 65  | 169               |
| 100-65-250  | 5.5        | 550 | 300 | 420 | 600 | 460 | 980  | 190 | 14 | 110   | 1111 | 125 | 100 | 65  | 190               |
|             | 7.5        | 550 | 300 | 420 | 600 | 460 | 980  | 190 | 18 | 110   | 1151 | 125 | 100 | 65  | 203               |
| 100-65-315  | 11         | 605 | 325 | 460 | 800 | 500 | 1120 | 160 | 18 | 80    | 1267 | 125 | 100 | 65  | 298               |
|             | 15         | 605 | 325 | 460 | 800 | 500 | 1120 | 160 | 18 | 80    | 1307 | 125 | 100 | 65  | 312               |
| 100-80-160  | 1.5        | 460 | 260 | 340 | 600 | 380 | 860  | 130 | 14 | 65    | 954  | 100 | 100 | 80  | 124               |
|             | 2.2        | 460 | 260 | 340 | 600 | 380 | 860  | 130 | 14 | 65    | 982  | 100 | 100 | 80  | 135               |
|             | 3          | 460 | 260 | 340 | 600 | 380 | 860  | 130 | 14 | 65    | 982  | 100 | 100 | 80  | 139               |
| 125-80-400  | 15         | 735 | 380 | 500 | 800 | 540 | 1150 | 175 | 18 | 94    | 1317 | 125 | 125 | 80  | 362               |
|             | 18.5       | 735 | 380 | 500 | 800 | 540 | 1150 | 175 | 18 | 94    | 1374 | 125 | 125 | 80  | 381               |
|             | 22         | 735 | 380 | 510 | 800 | 560 | 1220 | 210 | 22 | 126.5 | 1404 | 125 | 125 | 80  | 418               |
|             | 30         | 735 | 380 | 510 | 800 | 560 | 1220 | 210 | 22 | 126.5 | 1442 | 125 | 125 | 80  | 474               |
|             | 37         | 755 | 400 | 510 | 800 | 560 | 1250 | 225 | 22 | 141.5 | 1481 | 125 | 125 | 80  | 548               |
| 125-100-200 | 4          | 580 | 300 | 420 | 600 | 460 | 900  | 150 | 14 | 70    | 1045 | 125 | 125 | 100 | 171               |
|             | 5.5        | 580 | 300 | 420 | 600 | 460 | 980  | 190 | 18 | 110   | 1111 | 125 | 125 | 100 | 195               |
|             | 7.5        | 580 | 300 | 420 | 600 | 460 | 980  | 190 | 18 | 110   | 1151 | 125 | 125 | 100 | 207               |
|             | 11         | 580 | 300 | 420 | 800 | 460 | 1100 | 150 | 18 | 70    | 1237 | 125 | 125 | 100 | 263               |
| 125-100-250 | 15         | 605 | 325 | 460 | 800 | 500 | 1120 | 160 | 18 | 80    | 1322 | 140 | 125 | 100 | 312               |
| 125-100-315 | 11         | 665 | 350 | 460 | 800 | 500 | 1120 | 160 | 18 | 79    | 1282 | 140 | 125 | 100 | 314               |
|             | 18.5       | 665 | 350 | 460 | 800 | 500 | 1180 | 190 | 18 | 109   | 1379 | 140 | 125 | 100 | 354               |
|             | 22         | 665 | 350 | 460 | 800 | 500 | 1180 | 190 | 18 | 109   | 1409 | 140 | 125 | 100 | 380               |
|             | 30         | 665 | 350 | 510 | 800 | 560 | 1220 | 210 | 22 | 126.5 | 1457 | 140 | 125 | 100 | 452               |
| 125-100-400 | 30         | 735 | 380 | 570 | 800 | 620 | 1220 | 210 | 22 | 110   | 1447 | 140 | 125 | 100 | 478               |
|             | 37         | 755 | 400 | 575 | 900 | 625 | 1300 | 200 | 22 | 100   | 1496 | 140 | 125 | 100 | 552               |
|             | 45         | 755 | 400 | 575 | 900 | 625 | 1300 | 200 | 22 | 100   | 1531 | 140 | 125 | 100 | 581               |
| 150-125-250 | 11         | 705 | 350 | 460 | 800 | 500 | 1120 | 160 | 18 | 79    | 1282 | 140 | 150 | 125 | 309               |
|             | 15         | 705 | 350 | 460 | 800 | 500 | 1120 | 160 | 18 | 79    | 1322 | 140 | 150 | 125 | 324               |
|             | 18.5       | 705 | 350 | 460 | 800 | 500 | 1180 | 190 | 18 | 109   | 1379 | 140 | 150 | 125 | 349               |
|             | 22         | 705 | 350 | 460 | 800 | 500 | 1180 | 190 | 18 | 109   | 1409 | 140 | 150 | 125 | 375               |

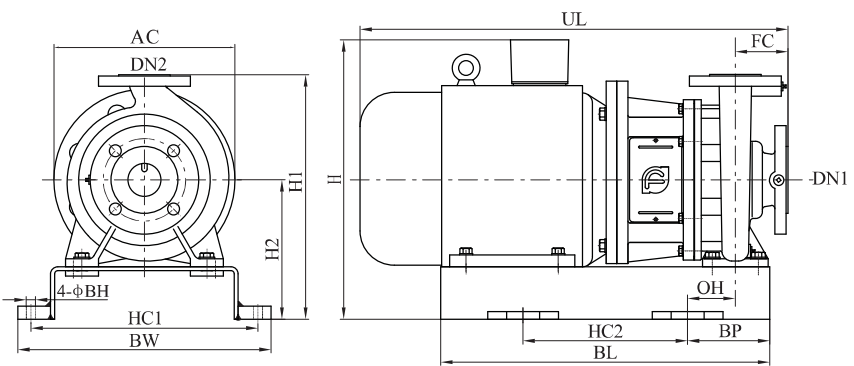
NISO pump set dimension table

| 4-pole         |            |      |     |     |      |     |      |     |    |     |      |     |     |     |                   |
|----------------|------------|------|-----|-----|------|-----|------|-----|----|-----|------|-----|-----|-----|-------------------|
| Model          | Power (kW) | H1   | H2  | HC1 | HC2  | BW  | BL   | BP  | BH | OH  | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 150-125-315    | 30         | 735  | 380 | 570 | 800  | 620 | 1220 | 210 | 22 | 110 | 1447 | 140 | 150 | 125 | 483               |
|                | 37         | 755  | 400 | 575 | 900  | 625 | 1300 | 200 | 22 | 100 | 1496 | 140 | 150 | 125 | 559               |
| 150-125-400    | 45         | 835  | 435 | 575 | 900  | 625 | 1300 | 200 | 22 | 100 | 1531 | 140 | 150 | 125 | 607               |
|                | 55         | 835  | 435 | 575 | 900  | 625 | 1350 | 225 | 22 | 125 | 1592 | 140 | 150 | 125 | 709               |
|                | 75         | 835  | 435 | 620 | 800  | 670 | 1400 | 300 | 22 | 200 | 1665 | 140 | 150 | 125 | 844               |
| 200-150-315    | 37         | 835  | 435 | 620 | 800  | 670 | 1400 | 300 | 22 | 200 | 1656 | 160 | 200 | 150 | 628               |
|                | 45         | 835  | 435 | 595 | 900  | 645 | 1500 | 300 | 22 | 200 | 1691 | 160 | 200 | 150 | 659               |
|                | 55         | 835  | 435 | 595 | 900  | 645 | 1500 | 300 | 22 | 200 | 1752 | 160 | 200 | 150 | 762               |
|                | 75         | 835  | 435 | 625 | 1000 | 675 | 1600 | 300 | 22 | 200 | 1835 | 160 | 200 | 150 | 903               |
| 200-150-400    | 75         | 885  | 435 | 625 | 1000 | 675 | 1600 | 300 | 22 | 200 | 1835 | 160 | 200 | 150 | 973               |
|                | 90         | 885  | 435 | 625 | 1000 | 675 | 1600 | 300 | 22 | 200 | 1885 | 160 | 200 | 150 | 1024              |
|                | 110        | 885  | 435 | 710 | 1200 | 760 | 1700 | 250 | 22 | 150 | 2124 | 160 | 200 | 150 | 1467              |
| 250-200-315    | 37         | 885  | 435 | 620 | 800  | 670 | 1400 | 300 | 22 | 200 | 1676 | 180 | 250 | 200 | 663               |
|                | 45         | 885  | 435 | 595 | 900  | 645 | 1500 | 300 | 22 | 200 | 1711 | 180 | 250 | 200 | 694               |
|                | 55         | 885  | 435 | 595 | 900  | 645 | 1500 | 300 | 22 | 200 | 1772 | 180 | 250 | 200 | 798               |
|                | 75         | 885  | 435 | 625 | 1000 | 675 | 1600 | 300 | 22 | 200 | 1855 | 180 | 250 | 200 | 943               |
| 250-200-400    | 90         | 950  | 500 | 625 | 1000 | 675 | 1600 | 300 | 22 | 200 | 1905 | 180 | 250 | 200 | 1075              |
|                | 110        | 950  | 500 | 710 | 1200 | 760 | 1700 | 250 | 22 | 150 | 2144 | 180 | 250 | 200 | 1524              |
|                | 132        | 950  | 500 | 710 | 1200 | 760 | 1750 | 275 | 22 | 175 | 2244 | 180 | 250 | 200 | 1606              |
|                | 160        | 950  | 500 | 710 | 1200 | 760 | 1750 | 275 | 22 | 175 | 2244 | 180 | 250 | 200 | 1710              |
| 300-250-315(Q) | 75         | 950  | 495 | 800 | 1150 | 850 | 1700 | 275 | 22 | 125 | 1933 | 225 | 300 | 250 | 1525              |
|                | 90         | 950  | 495 | 800 | 1150 | 850 | 1700 | 275 | 22 | 125 | 1983 | 225 | 300 | 250 | 1603              |
|                | 110        | 950  | 495 | 800 | 1250 | 850 | 1800 | 275 | 22 | 125 | 2228 | 225 | 300 | 250 | 1931              |
| 300-250-400(Q) | 110        | 1045 | 545 | 800 | 1250 | 850 | 1800 | 275 | 22 | 125 | 2206 | 225 | 300 | 250 | 1980              |
|                | 132        | 1045 | 545 | 800 | 1330 | 850 | 1880 | 275 | 22 | 125 | 2236 | 225 | 300 | 250 | 2085              |
|                | 160        | 1045 | 545 | 800 | 1330 | 850 | 1880 | 275 | 22 | 125 | 2236 | 225 | 300 | 250 | 2145              |
|                | 200        | 1045 | 545 | 800 | 1330 | 850 | 1880 | 275 | 22 | 125 | 2236 | 225 | 300 | 250 | 2260              |
| 300-250-315    | 75         | 950  | 495 | 800 | 1150 | 850 | 1700 | 275 | 22 | 125 | 1933 | 225 | 300 | 250 | 1525              |
|                | 90         | 950  | 495 | 800 | 1150 | 850 | 1700 | 275 | 22 | 125 | 1983 | 225 | 300 | 250 | 1603              |
|                | 110        | 950  | 495 | 800 | 1250 | 850 | 1800 | 275 | 22 | 125 | 2228 | 225 | 300 | 250 | 1931              |

NISO pump set dimension table

| 4-pole      |            |      |     |     |      |     |      |     |    |     |      |     |     |     |                   |
|-------------|------------|------|-----|-----|------|-----|------|-----|----|-----|------|-----|-----|-----|-------------------|
| Model       | Power (kW) | H1   | H2  | HC1 | HC2  | BW  | BL   | BP  | BH | OH  | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 300-250-400 | 132        | 1045 | 545 | 800 | 1330 | 850 | 1880 | 275 | 22 | 125 | 2236 | 225 | 300 | 250 | 2085              |
|             | 160        | 1045 | 545 | 800 | 1330 | 850 | 1880 | 275 | 22 | 125 | 2236 | 225 | 300 | 250 | 2145              |
|             | 200        | 1045 | 545 | 800 | 1330 | 850 | 1880 | 275 | 22 | 125 | 2236 | 225 | 300 | 250 | 2260              |

NIS, NISF pump dimension drawing



NIS, NISF pump dimension table

| 2-pole    |            |     |     |     |     |     |     |     |     |    |      |      |     |     |     |                   |
|-----------|------------|-----|-----|-----|-----|-----|-----|-----|-----|----|------|------|-----|-----|-----|-------------------|
| Model     | Power (kW) | H   | H1  | H2  | HC1 | HC2 | BW  | BL  | BP  | BH | OH   | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 50-32-160 | 3          | 382 | 372 | 212 | 306 | 250 | 336 | 450 | 100 | 14 | 47.5 | 563  | 80  | 50  | 32  | 75                |
|           | 4          | 400 | 372 | 212 | 306 | 250 | 336 | 450 | 100 | 14 | 47.5 | 578  | 80  | 50  | 32  | 81                |
|           | 5.5        | 425 | 372 | 212 | 335 | 300 | 365 | 500 | 100 | 14 | 47.5 | 650  | 80  | 50  | 32  | 105               |
| 50-32-200 | 7.5        | 453 | 420 | 240 | 350 | 300 | 380 | 500 | 100 | 14 | 46   | 650  | 80  | 50  | 32  | 120               |
|           | 11         | 500 | 420 | 240 | 390 | 350 | 420 | 600 | 125 | 18 | 71   | 787  | 80  | 50  | 32  | 175               |
| 65-40-200 | 7.5        | 453 | 420 | 240 | 335 | 300 | 365 | 500 | 100 | 14 | 47.5 | 670  | 100 | 65  | 40  | 120               |
|           | 11         | 500 | 420 | 240 | 390 | 350 | 420 | 600 | 125 | 18 | 71   | 807  | 100 | 65  | 40  | 177               |
|           | 15         | 500 | 420 | 240 | 390 | 350 | 420 | 600 | 125 | 18 | 71   | 807  | 100 | 65  | 40  | 187               |
| 65-40-250 | 18.5       | 520 | 485 | 260 | 390 | 400 | 420 | 660 | 130 | 18 | 63.5 | 865  | 100 | 65  | 40  | 222               |
|           | 22         | 535 | 485 | 260 | 430 | 400 | 460 | 700 | 150 | 18 | 81.5 | 895  | 100 | 65  | 40  | 257               |
|           | 30         | 585 | 505 | 280 | 470 | 450 | 500 | 750 | 150 | 18 | 81.5 | 967  | 100 | 65  | 40  | 318               |
| 65-40-315 | 22         | 555 | 530 | 280 | 430 | 400 | 460 | 700 | 150 | 18 | 81.5 | 920  | 125 | 65  | 40  | 270               |
|           | 30         | 585 | 530 | 280 | 465 | 500 | 495 | 800 | 150 | 18 | 81.5 | 992  | 125 | 65  | 40  | 340               |
|           | 37         | 585 | 530 | 280 | 465 | 500 | 495 | 800 | 150 | 18 | 81.5 | 992  | 125 | 65  | 40  | 359               |
|           | 45         | 640 | 555 | 305 | 520 | 500 | 560 | 820 | 160 | 22 | 90   | 1042 | 125 | 65  | 40  | 428               |
| 65-50-160 | 4          | 400 | 372 | 212 | 306 | 250 | 336 | 450 | 100 | 14 | 47.5 | 578  | 80  | 65  | 50  | 83                |
|           | 5.5        | 425 | 372 | 212 | 335 | 300 | 365 | 500 | 100 | 14 | 47.5 | 650  | 80  | 65  | 50  | 107               |
|           | 7.5        | 425 | 372 | 212 | 335 | 300 | 365 | 500 | 100 | 14 | 47.5 | 650  | 80  | 65  | 50  | 110               |

NIS, NISF pump dimension table

| 2-pole      |            |     |     |     |     |     |     |      |     |    |       |      |     |     |     |                   |
|-------------|------------|-----|-----|-----|-----|-----|-----|------|-----|----|-------|------|-----|-----|-----|-------------------|
| Model       | Power (kW) | H   | H1  | H2  | HC1 | HC2 | BW  | BL   | BP  | BH | OH    | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 80-50-200   | 11         | 500 | 440 | 240 | 390 | 350 | 420 | 600  | 125 | 18 | 71    | 807  | 100 | 80  | 50  | 181               |
|             | 15         | 500 | 440 | 240 | 390 | 350 | 420 | 600  | 125 | 18 | 71    | 807  | 100 | 80  | 50  | 191               |
|             | 18.5       | 500 | 440 | 240 | 390 | 400 | 420 | 660  | 130 | 18 | 76    | 862  | 100 | 80  | 50  | 211               |
|             | 22         | 535 | 460 | 260 | 430 | 400 | 460 | 700  | 150 | 18 | 96    | 892  | 100 | 80  | 50  | 254               |
| 80-50-250   | 30         | 585 | 505 | 280 | 470 | 450 | 500 | 750  | 150 | 18 | 81.5  | 992  | 125 | 80  | 50  | 320               |
|             | 37         | 585 | 505 | 280 | 470 | 450 | 500 | 750  | 150 | 18 | 81.5  | 992  | 125 | 80  | 50  | 339               |
| 80-50-315   | 37         | 610 | 585 | 305 | 465 | 500 | 495 | 800  | 150 | 18 | 81.5  | 992  | 125 | 80  | 50  | 370               |
|             | 45         | 640 | 585 | 305 | 520 | 500 | 560 | 820  | 160 | 22 | 90    | 1042 | 125 | 80  | 50  | 434               |
|             | 55         | 715 | 630 | 350 | 585 | 550 | 625 | 950  | 200 | 22 | 130   | 1156 | 125 | 80  | 50  | 534               |
|             | 75         | 780 | 660 | 380 | 630 | 600 | 670 | 1000 | 200 | 22 | 130   | 1231 | 125 | 80  | 50  | 675               |
| 80-65-160   | 5.5        | 453 | 420 | 240 | 335 | 300 | 365 | 500  | 100 | 14 | 47.5  | 670  | 100 | 80  | 65  | 115               |
|             | 7.5        | 453 | 420 | 240 | 335 | 300 | 365 | 500  | 100 | 14 | 47.5  | 670  | 100 | 80  | 65  | 118               |
|             | 11         | 500 | 420 | 240 | 390 | 350 | 420 | 600  | 125 | 18 | 71    | 807  | 100 | 80  | 65  | 175               |
|             | 15         | 500 | 420 | 240 | 390 | 350 | 420 | 600  | 125 | 18 | 71    | 807  | 100 | 80  | 65  | 185               |
| 100-65-200  | 18.5       | 520 | 485 | 260 | 390 | 400 | 420 | 660  | 130 | 18 | 63.5  | 865  | 100 | 100 | 65  | 222               |
|             | 22         | 535 | 485 | 260 | 430 | 400 | 460 | 700  | 150 | 18 | 81.5  | 895  | 100 | 100 | 65  | 257               |
|             | 30         | 585 | 505 | 280 | 470 | 450 | 500 | 750  | 150 | 18 | 81.5  | 967  | 100 | 100 | 65  | 318               |
|             | 37         | 585 | 505 | 280 | 470 | 450 | 500 | 750  | 150 | 18 | 81.5  | 967  | 100 | 100 | 65  | 337               |
| 100-65-250  | 45         | 640 | 555 | 305 | 520 | 500 | 560 | 820  | 160 | 22 | 76.5  | 1042 | 125 | 100 | 65  | 426               |
|             | 55         | 715 | 600 | 350 | 585 | 550 | 625 | 950  | 200 | 22 | 116.5 | 1156 | 125 | 100 | 65  | 529               |
|             | 75         | 780 | 630 | 380 | 630 | 600 | 670 | 1000 | 200 | 22 | 114   | 1231 | 125 | 100 | 65  | 673               |
| 100-65-315  | 90         | 780 | 660 | 380 | 630 | 600 | 670 | 1100 | 250 | 22 | 164   | 1295 | 125 | 100 | 65  | 730               |
|             | 110        | 945 | 695 | 415 | 720 | 600 | 760 | 1100 | 250 | 22 | 164   | 1530 | 125 | 100 | 65  | 1161              |
| 100-80-160  | 11         | 515 | 440 | 240 | 390 | 400 | 420 | 660  | 130 | 18 | 61.5  | 810  | 100 | 100 | 80  | 177               |
|             | 15         | 515 | 440 | 240 | 390 | 400 | 420 | 660  | 130 | 18 | 61.5  | 810  | 100 | 100 | 80  | 187               |
|             | 18.5       | 515 | 440 | 240 | 390 | 400 | 420 | 660  | 130 | 18 | 61.5  | 865  | 100 | 100 | 80  | 207               |
|             | 22         | 535 | 460 | 260 | 430 | 400 | 460 | 700  | 150 | 18 | 83.5  | 895  | 100 | 100 | 80  | 248               |
| 125-100-200 | 30         | 585 | 560 | 280 | 465 | 500 | 495 | 800  | 150 | 18 | 69    | 992  | 125 | 125 | 100 | 349               |
|             | 37         | 585 | 560 | 280 | 465 | 500 | 495 | 800  | 150 | 18 | 69    | 992  | 125 | 125 | 100 | 368               |
|             | 45         | 640 | 585 | 305 | 520 | 500 | 560 | 820  | 160 | 22 | 76.5  | 1042 | 125 | 125 | 100 | 431               |
|             | 55         | 715 | 630 | 350 | 585 | 550 | 625 | 950  | 200 | 22 | 116.5 | 1156 | 125 | 125 | 100 | 534               |
|             | 75         | 780 | 660 | 380 | 630 | 600 | 670 | 1000 | 200 | 22 | 114   | 1231 | 125 | 125 | 100 | 678               |
|             |            |     |     |     |     |     |     |      |     |    |       |      |     |     |     |                   |

NIS, NISF pump dimension table

| 2-pole      |            |     |     |     |     |     |     |      |     |    |      |      |     |     |     |                   |
|-------------|------------|-----|-----|-----|-----|-----|-----|------|-----|----|------|------|-----|-----|-----|-------------------|
| Model       | Power (kW) | H   | H1  | H2  | HC1 | HC2 | BW  | BL   | BP  | BH | OH   | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 125-100-250 | 75         | 780 | 660 | 380 | 630 | 600 | 670 | 1000 | 200 | 22 | 114  | 1265 | 140 | 125 | 100 | 701               |
|             | 90         | 780 | 660 | 380 | 630 | 600 | 670 | 1100 | 250 | 22 | 164  | 1315 | 140 | 125 | 100 | 738               |
|             | 110        | 945 | 695 | 415 | 720 | 600 | 760 | 1100 | 250 | 22 | 164  | 1523 | 140 | 125 | 100 | 1169              |
| 125-100-315 | 90         | 780 | 695 | 380 | 630 | 600 | 670 | 1100 | 250 | 22 | 164  | 1310 | 140 | 125 | 100 | 744               |
|             | 110        | 945 | 730 | 415 | 720 | 600 | 760 | 1100 | 250 | 22 | 164  | 1545 | 140 | 125 | 100 | 1170              |
|             | 132        | 945 | 730 | 415 | 720 | 700 | 760 | 1220 | 260 | 22 | 174  | 1655 | 140 | 125 | 100 | 1230              |
|             | 160        | 945 | 730 | 415 | 720 | 700 | 760 | 1220 | 260 | 22 | 174  | 1655 | 140 | 125 | 100 | 1350              |
| 4-pole      |            |     |     |     |     |     |     |      |     |    |      |      |     |     |     |                   |
| Model       | Power (kW) | H   | H1  | H2  | HC1 | HC2 | BW  | BL   | BP  | BH | OH   | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 50-32-160   | 0.55       | 352 | 372 | 212 | 306 | 250 | 336 | 400  | 75  | 14 | 22.5 | 483  | 80  | 50  | 32  | 44                |
|             | 0.75       | 352 | 372 | 212 | 306 | 250 | 336 | 400  | 75  | 14 | 22.5 | 483  | 80  | 50  | 32  | 45                |
| 50-32-200   | 1.1        | 400 | 420 | 240 | 306 | 250 | 336 | 400  | 75  | 14 | 22.5 | 498  | 80  | 50  | 32  | 71                |
|             | 1.5        | 400 | 420 | 240 | 306 | 250 | 336 | 400  | 75  | 14 | 22.5 | 523  | 80  | 50  | 32  | 78                |
| 65-40-200   | 1.1        | 400 | 420 | 240 | 335 | 250 | 365 | 400  | 75  | 14 | 22.5 | 518  | 100 | 65  | 40  | 73                |
|             | 1.5        | 400 | 420 | 240 | 335 | 250 | 365 | 400  | 75  | 14 | 22.5 | 543  | 100 | 65  | 40  | 80                |
|             | 2.2        | 410 | 420 | 240 | 335 | 250 | 365 | 450  | 100 | 14 | 47.5 | 583  | 100 | 65  | 40  | 91                |
| 65-40-250   | 3          | 430 | 485 | 260 | 386 | 300 | 416 | 500  | 100 | 14 | 35   | 591  | 100 | 65  | 40  | 109               |
|             | 4          | 468 | 530 | 280 | 415 | 300 | 445 | 500  | 100 | 14 | 35   | 631  | 125 | 65  | 40  | 128               |
| 65-40-315   | 5.5        | 493 | 530 | 280 | 415 | 300 | 445 | 500  | 100 | 14 | 35   | 687  | 125 | 65  | 40  | 151               |
|             | 0.55       | 352 | 372 | 212 | 306 | 250 | 336 | 400  | 75  | 14 | 22.5 | 483  | 80  | 65  | 50  | 46                |
| 65-50-160   | 0.75       | 352 | 372 | 212 | 306 | 250 | 336 | 400  | 75  | 14 | 22.5 | 483  | 80  | 65  | 50  | 47                |
|             | 1.1        | 372 | 372 | 212 | 306 | 250 | 336 | 400  | 75  | 14 | 22.5 | 498  | 80  | 65  | 50  | 63                |
|             | 1.5        | 400 | 440 | 240 | 335 | 250 | 365 | 400  | 75  | 14 | 22.5 | 543  | 100 | 80  | 50  | 84                |
| 80-50-200   | 2.2        | 410 | 440 | 240 | 335 | 250 | 365 | 450  | 100 | 14 | 47.5 | 583  | 100 | 80  | 50  | 95                |
|             | 3          | 410 | 440 | 240 | 335 | 250 | 365 | 450  | 100 | 14 | 47.5 | 583  | 100 | 80  | 50  | 100               |
| 80-50-250   | 4          | 448 | 485 | 260 | 386 | 300 | 416 | 500  | 100 | 14 | 35   | 631  | 125 | 80  | 50  | 116               |
|             | 5.5        | 473 | 485 | 260 | 386 | 300 | 416 | 500  | 100 | 14 | 35   | 687  | 125 | 80  | 50  | 137               |
| 80-50-315   | 5.5        | 518 | 585 | 305 | 415 | 350 | 445 | 550  | 100 | 18 | 33.5 | 687  | 125 | 80  | 50  | 155               |
|             | 7.5        | 518 | 585 | 305 | 415 | 350 | 445 | 550  | 100 | 18 | 33.5 | 727  | 125 | 80  | 50  | 169               |
| 80-65-160   | 0.75       | 380 | 420 | 240 | 335 | 250 | 365 | 400  | 75  | 14 | 22.5 | 503  | 100 | 80  | 65  | 67                |
|             | 1.1        | 400 | 420 | 240 | 335 | 250 | 365 | 400  | 75  | 14 | 22.5 | 518  | 100 | 80  | 65  | 71                |
|             | 1.5        | 400 | 420 | 240 | 335 | 250 | 365 | 400  | 75  | 14 | 22.5 | 543  | 100 | 80  | 65  | 78                |

NIS, NISF pump dimension table

| 4-pole      |            |     |     |     |     |     |     |     |     |    |      |      |     |     |     |                   |
|-------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|----|------|------|-----|-----|-----|-------------------|
| Model       | Power (kW) | H   | H1  | H2  | HC1 | HC2 | BW  | BL  | BP  | BH | OH   | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 100-65-200  | 3          | 430 | 485 | 260 | 386 | 300 | 416 | 500 | 100 | 14 | 35   | 591  | 100 | 100 | 65  | 109               |
|             | 4          | 448 | 485 | 260 | 386 | 300 | 416 | 500 | 100 | 14 | 35   | 606  | 100 | 100 | 65  | 114               |
|             | 5.5        | 473 | 485 | 260 | 386 | 300 | 416 | 500 | 100 | 14 | 35   | 662  | 100 | 100 | 65  | 135               |
| 100-65-250  | 5.5        | 493 | 530 | 280 | 430 | 350 | 460 | 550 | 100 | 14 | 20   | 687  | 125 | 100 | 65  | 147               |
|             | 7.5        | 493 | 530 | 280 | 430 | 350 | 460 | 550 | 100 | 18 | 20   | 727  | 125 | 100 | 65  | 166               |
| 100-65-315  | 11         | 565 | 585 | 305 | 470 | 400 | 500 | 700 | 150 | 18 | 70   | 854  | 125 | 100 | 65  | 249               |
|             | 15         | 565 | 585 | 305 | 470 | 400 | 500 | 700 | 150 | 18 | 70   | 909  | 125 | 100 | 65  | 270               |
| 100-80-160  | 1.5        | 400 | 440 | 240 | 350 | 250 | 380 | 410 | 105 | 14 | 40   | 536  | 100 | 100 | 80  | 76                |
|             | 2.2        | 410 | 440 | 240 | 350 | 300 | 380 | 500 | 100 | 14 | 35   | 591  | 100 | 100 | 80  | 87                |
|             | 3          | 410 | 440 | 240 | 350 | 300 | 380 | 500 | 100 | 14 | 35   | 591  | 100 | 100 | 80  | 92                |
| 125-80-400  | 15         | 620 | 715 | 360 | 510 | 450 | 540 | 750 | 150 | 18 | 68   | 911  | 125 | 125 | 80  | 334               |
|             | 18.5       | 635 | 715 | 360 | 510 | 450 | 540 | 750 | 150 | 18 | 66.5 | 941  | 125 | 125 | 80  | 369               |
|             | 22         | 635 | 715 | 360 | 520 | 450 | 560 | 750 | 150 | 22 | 76.5 | 981  | 125 | 125 | 80  | 391               |
|             | 30         | 665 | 715 | 360 | 520 | 500 | 560 | 820 | 160 | 22 | 68   | 1015 | 125 | 125 | 80  | 440               |
|             | 37         | 695 | 715 | 360 | 520 | 500 | 560 | 820 | 160 | 22 | 76.5 | 1058 | 125 | 125 | 80  | 498               |
| 125-100-200 | 4          | 468 | 560 | 280 | 430 | 300 | 460 | 500 | 100 | 14 | 20   | 631  | 125 | 125 | 100 | 136               |
|             | 5.5        | 493 | 560 | 280 | 430 | 350 | 460 | 550 | 100 | 18 | 20   | 687  | 125 | 125 | 100 | 152               |
|             | 7.5        | 493 | 560 | 280 | 430 | 350 | 460 | 550 | 100 | 18 | 20   | 727  | 125 | 125 | 100 | 171               |
|             | 11         | 540 | 560 | 280 | 430 | 400 | 460 | 650 | 125 | 18 | 45   | 835  | 125 | 125 | 100 | 222               |
| 125-100-250 | 15         | 565 | 585 | 305 | 470 | 400 | 500 | 700 | 150 | 18 | 70   | 924  | 140 | 125 | 100 | 278               |
| 125-100-315 | 11         | 590 | 645 | 330 | 470 | 400 | 500 | 700 | 150 | 18 | 69   | 869  | 140 | 125 | 100 | 261               |
|             | 18.5       | 605 | 645 | 330 | 470 | 450 | 500 | 750 | 150 | 18 | 69   | 954  | 140 | 125 | 100 | 317               |
|             | 22         | 605 | 645 | 330 | 470 | 450 | 500 | 750 | 150 | 18 | 69   | 994  | 140 | 125 | 100 | 335               |
|             | 30         | 635 | 645 | 330 | 520 | 500 | 560 | 820 | 160 | 22 | 76.5 | 1028 | 140 | 125 | 100 | 394               |
| 125-100-400 | 30         | 665 | 715 | 360 | 580 | 500 | 620 | 800 | 150 | 22 | 50   | 1028 | 140 | 125 | 100 | 444               |
|             | 37         | 715 | 735 | 380 | 585 | 550 | 625 | 950 | 200 | 22 | 100  | 1071 | 140 | 125 | 100 | 523               |
|             | 45         | 715 | 735 | 380 | 585 | 550 | 625 | 950 | 200 | 22 | 100  | 1101 | 140 | 125 | 100 | 552               |
| 150-125-250 | 11         | 590 | 685 | 330 | 470 | 400 | 500 | 700 | 150 | 18 | 69   | 869  | 140 | 150 | 125 | 257               |
|             | 15         | 590 | 685 | 330 | 470 | 400 | 500 | 700 | 150 | 18 | 69   | 924  | 140 | 150 | 125 | 284               |
|             | 18.5       | 605 | 685 | 330 | 470 | 450 | 500 | 750 | 150 | 18 | 69   | 954  | 140 | 150 | 125 | 315               |
|             | 22         | 605 | 685 | 330 | 470 | 450 | 500 | 750 | 150 | 18 | 69   | 994  | 140 | 150 | 125 | 333               |

NIS, NISF pump dimension table

| 4-pole         |            |      |      |     |     |     |     |      |     |    |     |      |     |     |     |                   |
|----------------|------------|------|------|-----|-----|-----|-----|------|-----|----|-----|------|-----|-----|-----|-------------------|
| Model          | Power (kW) | H    | H1   | H2  | HC1 | HC2 | BW  | BL   | BP  | BH | OH  | UL   | FC  | DN1 | DN2 | Total weight (kg) |
| 150-125-315    | 30         | 665  | 715  | 360 | 580 | 500 | 620 | 800  | 150 | 22 | 50  | 1028 | 140 | 150 | 125 | 430               |
|                | 37         | 715  | 735  | 380 | 585 | 550 | 625 | 950  | 200 | 22 | 100 | 1071 | 140 | 150 | 125 | 507               |
| 150-125-400    | 45         | 750  | 815  | 415 | 585 | 550 | 625 | 950  | 200 | 22 | 100 | 1103 | 140 | 150 | 125 | 561               |
|                | 55         | 780  | 815  | 415 | 585 | 550 | 625 | 950  | 200 | 22 | 100 | 1187 | 140 | 150 | 125 | 620               |
| 200-150-315    | 75         | 815  | 815  | 415 | 630 | 600 | 670 | 1000 | 200 | 22 | 100 | 1262 | 140 | 150 | 125 | 776               |
|                | 37         | 750  | 815  | 415 | 605 | 500 | 670 | 900  | 200 | 22 | 100 | 1116 | 160 | 200 | 150 | 541               |
|                | 45         | 750  | 815  | 415 | 605 | 500 | 645 | 900  | 200 | 22 | 100 | 1146 | 160 | 200 | 150 | 579               |
|                | 55         | 780  | 815  | 415 | 605 | 600 | 645 | 1000 | 200 | 22 | 100 | 1254 | 160 | 200 | 150 | 650               |
|                | 75         | 815  | 815  | 415 | 630 | 600 | 675 | 1100 | 250 | 22 | 150 | 1329 | 160 | 200 | 150 | 806               |
|                | 75         | 815  | 865  | 415 | 630 | 600 | 675 | 1100 | 250 | 22 | 150 | 1329 | 160 | 200 | 150 | 859               |
| 200-150-400    | 90         | 815  | 865  | 415 | 630 | 600 | 675 | 1100 | 250 | 22 | 150 | 1379 | 160 | 200 | 150 | 956               |
|                | 110        | 945  | 865  | 415 | 720 | 700 | 760 | 1220 | 260 | 22 | 160 | 1614 | 160 | 200 | 150 | 1325              |
| 250-200-315    | 37         | 750  | 865  | 415 | 605 | 500 | 670 | 900  | 200 | 22 | 100 | 1136 | 180 | 250 | 200 | 592               |
|                | 45         | 750  | 865  | 415 | 605 | 500 | 645 | 900  | 200 | 22 | 100 | 1166 | 180 | 250 | 200 | 630               |
|                | 55         | 780  | 865  | 415 | 605 | 600 | 645 | 1100 | 250 | 22 | 150 | 1274 | 180 | 250 | 200 | 695               |
|                | 75         | 815  | 865  | 415 | 630 | 600 | 675 | 1100 | 250 | 22 | 150 | 1349 | 180 | 250 | 200 | 840               |
| 250-200-400    | 90         | 845  | 930  | 480 | 630 | 600 | 675 | 1100 | 250 | 22 | 150 | 1399 | 180 | 250 | 200 | 1015              |
|                | 110        | 1010 | 930  | 480 | 720 | 750 | 760 | 1250 | 250 | 22 | 150 | 1634 | 180 | 250 | 200 | 1400              |
|                | 132        | 1010 | 930  | 480 | 720 | 700 | 760 | 1220 | 260 | 22 | 160 | 1744 | 180 | 250 | 200 | 1495              |
|                | 160        | 1010 | 930  | 480 | 720 | 700 | 760 | 1220 | 260 | 22 | 160 | 1744 | 180 | 250 | 200 | 1564              |
| 300-250-315(Q) | 75         | 930  | 930  | 475 | 810 | 750 | 850 | 1250 | 250 | 22 | 90  | 1356 | 225 | 300 | 250 | 1120              |
|                | 90         | 930  | 930  | 475 | 810 | 750 | 850 | 1250 | 250 | 22 | 90  | 1406 | 225 | 300 | 250 | 1182              |
|                | 110        | 1005 | 930  | 475 | 810 | 750 | 850 | 1250 | 250 | 22 | 90  | 1743 | 225 | 300 | 250 | 1518              |
| 300-250-400(Q) | 110        | 1055 | 1025 | 525 | 810 | 750 | 850 | 1250 | 250 | 22 | 90  | 1611 | 225 | 300 | 250 | 1582              |
|                | 132        | 1055 | 1025 | 525 | 810 | 900 | 850 | 1400 | 250 | 22 | 90  | 1721 | 225 | 300 | 250 | 1676              |
|                | 160        | 1055 | 1025 | 525 | 810 | 900 | 850 | 1400 | 250 | 22 | 90  | 1721 | 225 | 300 | 250 | 1777              |
|                | 200        | 1055 | 1025 | 525 | 810 | 900 | 850 | 1400 | 250 | 22 | 90  | 1721 | 225 | 300 | 250 | 1853              |
| 300-250-315    | 75         | 930  | 930  | 475 | 810 | 750 | 850 | 1250 | 250 | 22 | 90  | 1356 | 225 | 300 | 250 | 1120              |
|                | 90         | 930  | 930  | 475 | 810 | 750 | 850 | 1250 | 250 | 22 | 90  | 1406 | 225 | 300 | 250 | 1182              |
|                | 110        | 1005 | 930  | 475 | 810 | 750 | 850 | 1250 | 250 | 22 | 90  | 1743 | 225 | 300 | 250 | 1518              |
| 300-250-400    | 132        | 1055 | 1025 | 525 | 810 | 900 | 850 | 1400 | 250 | 22 | 90  | 1721 | 225 | 300 | 250 | 1676              |
|                | 160        | 1055 | 1025 | 525 | 810 | 900 | 850 | 1400 | 250 | 22 | 90  | 1721 | 225 | 300 | 250 | 1777              |
|                | 200        | 1055 | 1025 | 525 | 810 | 900 | 850 | 1400 | 250 | 22 | 90  | 1721 | 225 | 300 | 250 | 1853              |

Note: Flange dimension of NIS,NISF series are the same with NISO series.