



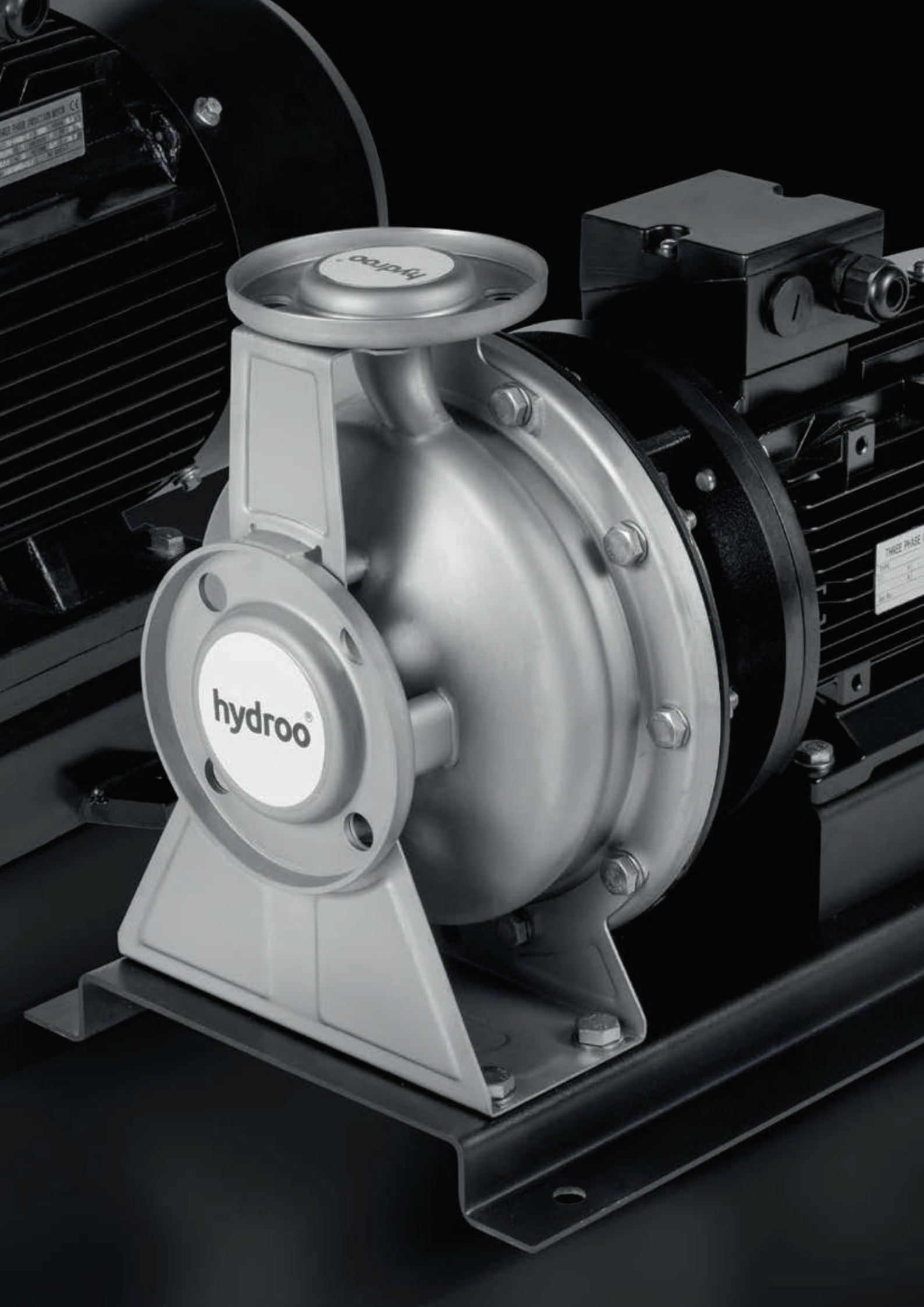
We Make The Difference

NDROO SERIES NSX/NSN

Horizontal single-stage
centrifugal pump 50Hz

hydroo[®]





hydroo®

hydroo

THREE PHASE
TYPE
HP
KW
V
A
F

PRESENTATION

Hydroo Pump Industries SL is an enterprise specialised in the research, development and large-scale production of Stainless Steel centrifugal pumps. We have a vertical integration of the production processes, standing out stamping, welding and motor wiring in 6 value centers and production units. All of them with a high performance management on pump engineering and production quality.

HYDROO has set up a wide range of pumping solutions for many applications as building services, industry, irrigation and industrial process. Customers enjoy of the highest performance in booster sets and pressurization, fire-fighting sets, pumping of underground water, HVAC, drainage and sewage, utilities, desalination and OEM integrations. Versions in 50 Hz and 60 Hz are available, as well as any modification on materials, on request.

Global water challenges require excellence in pumping technologies

and close cooperation between pump designers, manufacturers and pump engineers. In order to better meet the customers' needs and requirements our company is facing an expansion of its operations worldwide, providing timely and effective services in more than 30 countries. With tight relationships in many regions, we're proud to introduce a new regional value center for Europe. We are based near Barcelona at the Girona industrial area. Hydroo is a trademark to forge excellent and successful business relationships with our value customers by means of an operative assembling unit and an application engineering unit. HYDROO trademark wants to symbolize the firm commitment for a high level service to our value partners.

At Hydroo we bet on a high level service to our value pump partners.

NSX/NSN

Stainless steel
horizontal single
stage centrifugal
pump

Applications

Cooling water
Water supply/distribution
Drainage
General industrial services

Description

Horizontal single-stage centrifugal pumps made in Stainless Steel. Standard totally enclosed, fan cooled, insulation class F, IP 55 motors. Single phase motors up to 2,2 kW.

Standard versions are suitable for smart pumping of clean water with a temperature range between -20 °C and 100 °C.

Performance range

Capacity: Q up to 200 m³/h

Head: H up to 70 m

Temperature: T up to 100 °C

Speed: n 2900 rpm or 3500 rpm

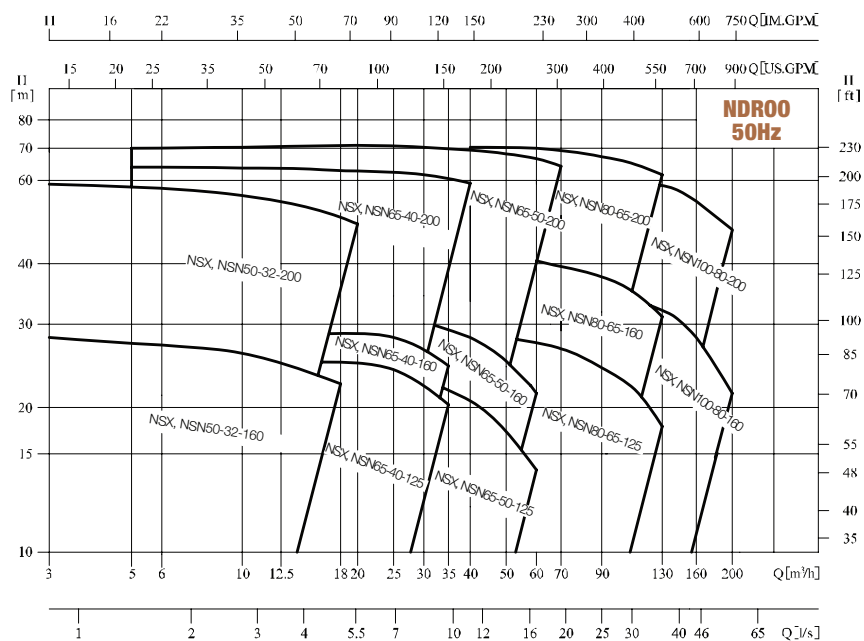
Power: P up to 37 kW

Standard material

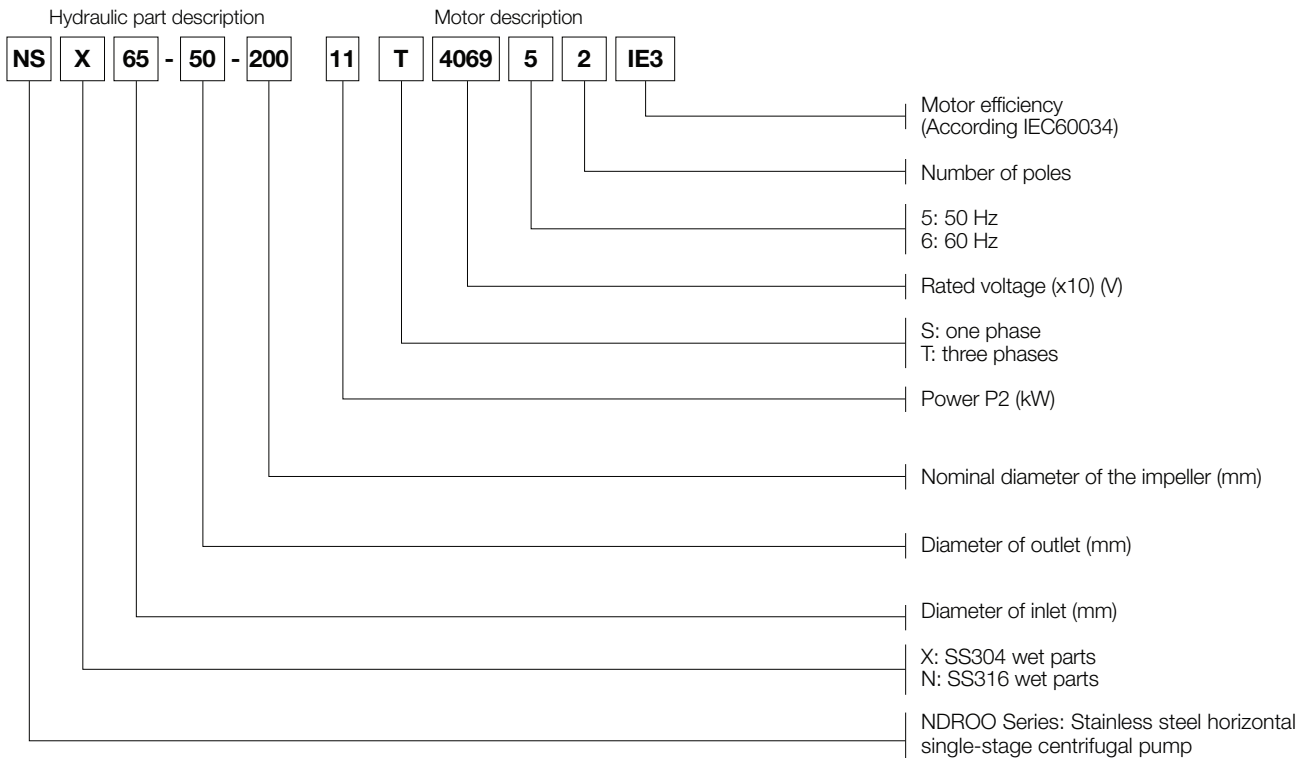
All the parts in contact with the liquid are made in AISI304 Stainless Steel. Standard mechanical seals made in Carbon / Silicon Carbide. Other specifications are available upon request.



Performance scope



Definition of model



Introduction

NDROO stainless steel horizontal single stage pumps are made to provide a high-end solution for the most demanding pump installations. This range of pumps are made by pressing and laser welding technologies to bring a corrosion resistant pump casing. These pumps are designed to provide a light solution according to EN733, with a high efficiency, energy saving, low noise, corrosion proof, durable and reliable operation.

Application

NDROO range are suitable for a wide range of applications. NDROO is suitable to handle water and any low chemical aggressive liquids for irrigation, HVAC and industrial applications. A wide range of fluid temperature allows NDROO be a satisfactory solution for the most demanding pumping conditions. Main applications are:

- Water supply, filtration, boosting and water transfer.
- Industrial pressurization in cleaning systems and spraying systems.
- Industrial liquids transferring in boiler feed, condensed water, cooling and heating, air conditioned, machine tools, light acid and alkali pumping.
- Water treatment systems, distilled water, separator and swimming-pools
- Irrigation, fertilisers pumping systems, sanitation and medicine installations.

Curves

Following conditions are suitable for the performance curves shown below:

1. Curve tolerance is in conformity with ISO9906 Annex A.
2. All curves are based on the measured value of motor 3x380V, 50Hz: under the constant speed of 2900rpm or 2950rpm.
3. The test medium is clear 20°C water without any solid impurity.
4. Pumps should not work if the flow is beyond the minimum or the maximum flow in the curves.
5. The motor power shall be adjusted if the viscosity or density of medium is different from water.

Motor

- TEFC motor, 2-pole.
- Protection class: Ip55.
- Insulation class: F.
- Standard voltage: 50HZ
1x 220V
3 x 380 V.

Minimum inlet pressure NPSH

Cavitation might happen when pressure in the inlet pump side is lower than the steam pressure for a given liquid and suction conditions. In order to avoid this phenomenon a minimum pressure shall be guaranteed at the pump inlet side. Use the following calculation to assure the optimal suction operation conditions:

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

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 pipeline possible Max. Flow.

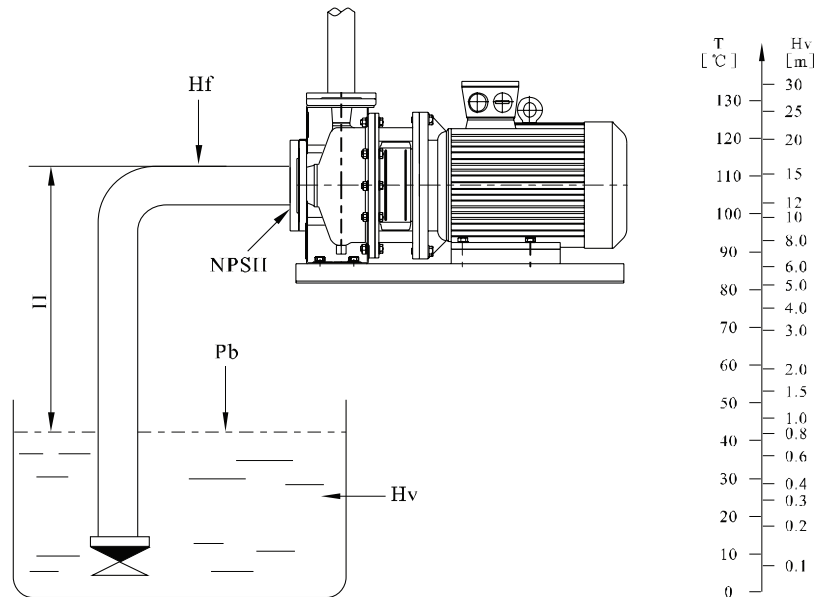
H_v -Steam pressure (m)
It depends on liquid temperature and steam pressure value.

H_s -Safety margin (m)
Minimum 0.5 delivery head
If the calculated result H is positive, the pump may run under the Max.

Suction head H . In case the calculated 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.



Installation requirements

The shaft connection type of NDROO pump is direct connection. The pump is composed of pump, shaft and standard motor.

– The pump shall be installed on the ventilating and anti-freezing place.

– The installation of the pump shall ensure that the pump will not be forced by the tension of the pipeline.

– If the pump is installed outdoor, suitable outer cover must be used to prevent electric elements from water inflow or coagulating dew.

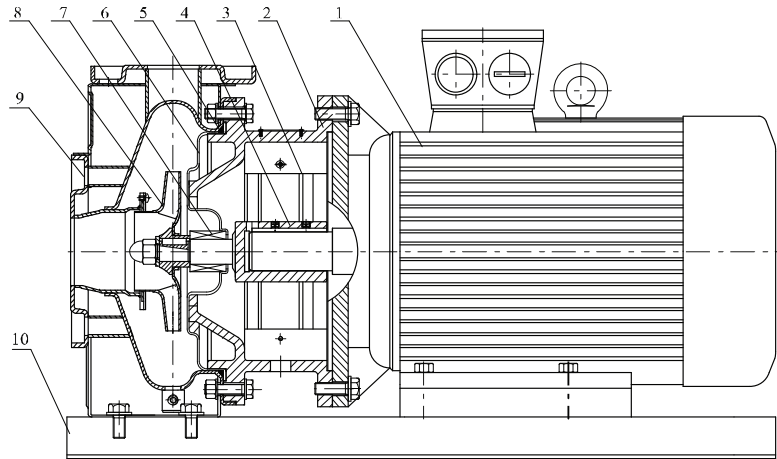
– To facilitate inspection and maintenance, enough space must be left around the machine group.

– Electric wiring device shall guarantee that the pump will not be damaged by lack of phase, unstable voltage, current leakage and overload.

– The pump shall be installed on the base horizontally. Horizontal direction is the inlet for the pump, and vertical direction is the outlet for the pump.

– The flange connection dimension are in conformity with the related provisions PN 16 in GB/T 17241.6 or ISO7005-2/DIN 2501.

Section drawing



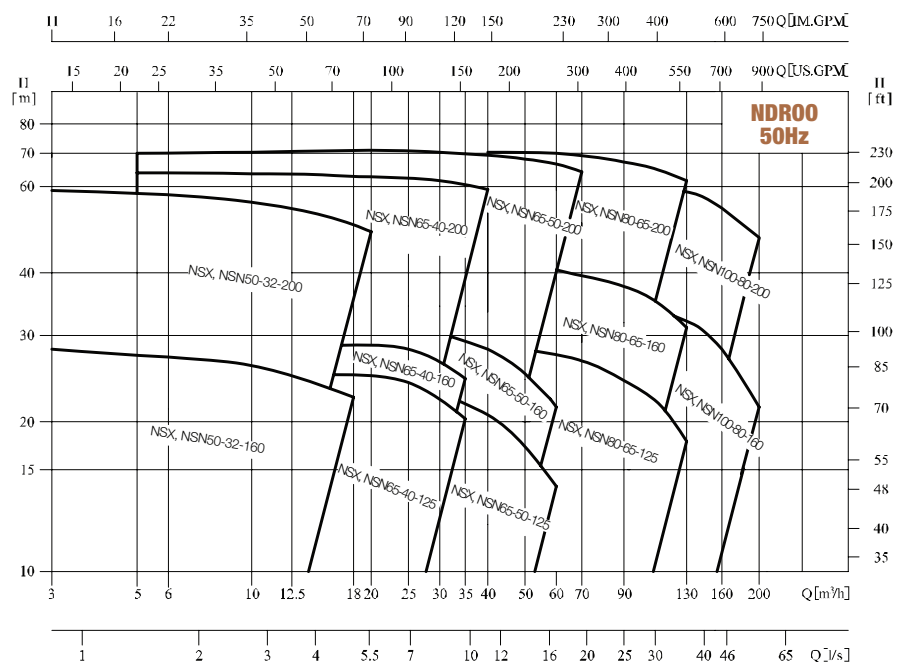
Material

| N° | Parts | Material | AISI/ASTM |
|----|---------------------|------------------------|-----------------|
| 1 | Motor | | |
| 2 | Pump head | HT200 | ASTM25B |
| 3 | Guard plate | 0Cr18Ni9 | AISI304 |
| 4 | Shaft | 2Cr13/0Cr18Ni9 | AISI420/AISI304 |
| 5 | O ring | NBR | |
| 6 | Lining of pump head | 0Cr18Ni9 | AISI304 |
| 7 | Mechanical sea | Carbon/Silicon Carbide | |
| 8 | Impeller | 0Cr18Ni9 | AISI304 |
| 9 | Casing | 0Cr18Ni9 | AISI304 |
| 10 | Base plate | Q235 | ASTMA570 |

Operating condition

- Clean, thin, non-flammable and explosive, not containing the liquid with solid particle and fibre.
- Liquid temperature: -20 °C ~+100 °C.
- Ambient temperature: up to +40 °C.
- Altitude: up to 1000m.
- Max. pressure of the system is 10 bar.

Scope of performance



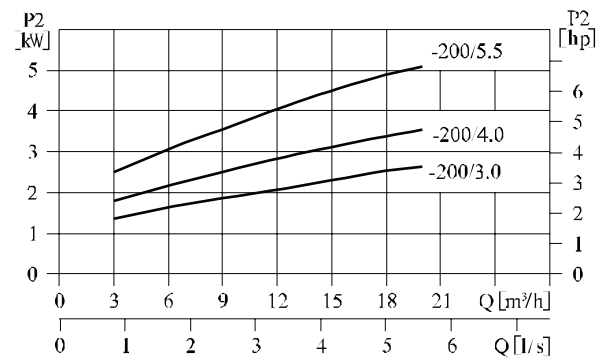
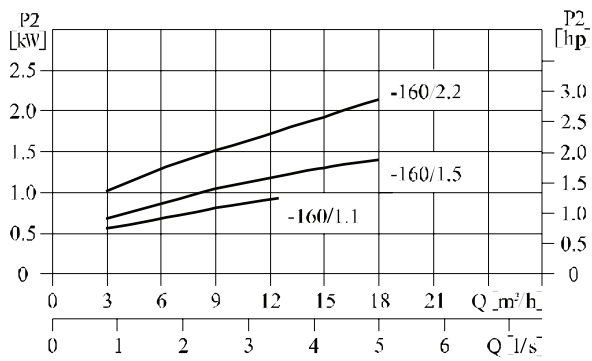
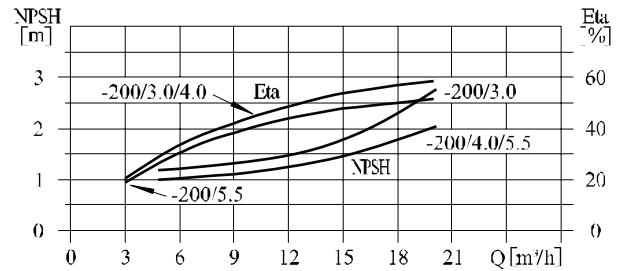
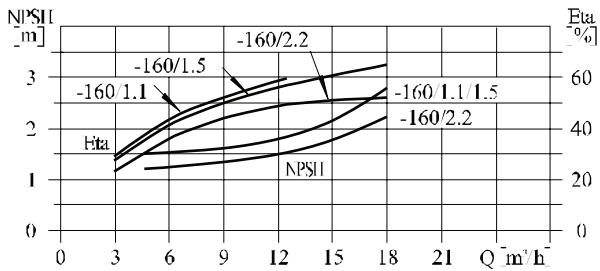
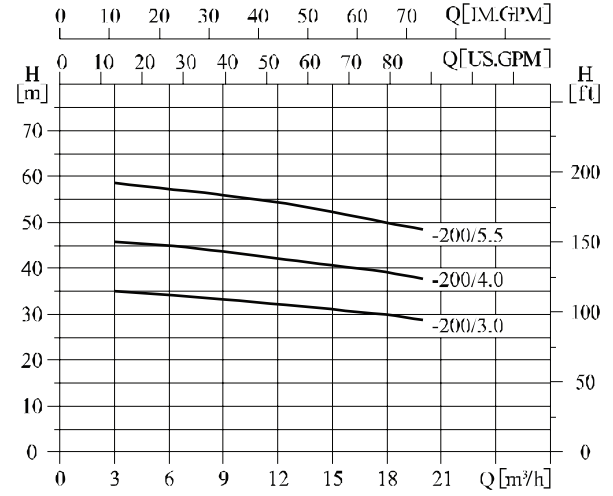
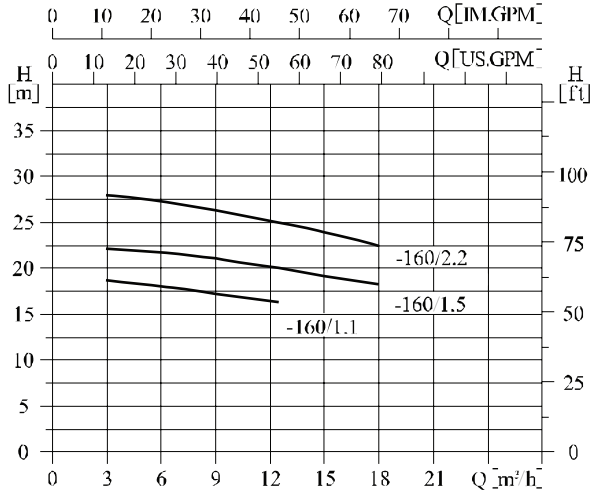
Product range

| N° | Model | Q (m³/h) | H (m) | n (r/min) | Standard voltage (V) | |
|----|--------------------------|----------|-------|-----------|----------------------|---------|
| | | | | | 1x220V | 3x380V |
| | | | | | P2 (kW) | P3 (kW) |
| 1 | NSX, NSN 50-32-160/1.1 | 6.3 | 18 | 2900 | 1.1 | 1.1 |
| 2 | NSX, NSN 50-32-160/1.5 | 12.5 | 20 | | 1.5 | 1.5 |
| 3 | NSX, NSN 50-32-160/2.2 | 12.5 | 25 | | 2.2 | 2.2 |
| 4 | NSX, NSN 50-32-200/3.0 | 12.5 | 32 | | | 3 |
| 5 | NSX, NSN 50-32-200/4.0 | 12.5 | 42 | | | 4 |
| 6 | NSX, NSN 50-32-200/5.5 | 12.5 | 54 | | | 5.5 |
| 7 | NSX, NSN 65-40-125/1.5 | 25 | 13 | | 1.5 | 1.5 |
| 8 | NSX, NSN 65-40-125/2.2 | 25 | 18 | | 2.2 | 2.2 |
| 9 | NSX, NSN 65-40-125/3.0 | 25 | 24 | | | 3 |
| 10 | NSX, NSN 65-40-160/4.0 | 25 | 23 | | | 4 |
| 11 | NSX, NSN 65-40-200/5.5 | 25 | 36 | | | 5.5 |
| 12 | NSX, NSN 65-40-200/7.5 | 25 | 46 | | | 7.5 |
| 13 | NSX, NSN 65-40-200/11.0 | 25 | 62 | 2950 | | 11 |
| 14 | NSX, NSN 65-50-125/3.0 | 50 | 13 | 2900 | | 3 |
| 15 | NSX, NSN 65-50-125/4.0 | 50 | 18 | | | 4 |
| 16 | NSX, NSN 65-50-160/5.5 | 50 | 25 | | | 5.5 |
| 17 | NSX, NSN 65-50-200/7.5 | 50 | 32 | | | 7.5 |
| 18 | NSX, NSN 65-50-200/9.2 | 50 | 40 | | | 9.2 |
| 19 | NSX, NSN 65-50-200/11.0 | 50 | 48 | 2950 | | 11 |
| 20 | NSX, NSN 65-50-200/15.0 | 50 | 58 | | | 15 |
| 21 | NSX, NSN 65-50-200/18.5 | 50 | 68 | | | 18.5 |
| 22 | NSX, NSN 80-65-125/5.5 | 100 | 13 | 2900 | | 5.5 |
| 23 | NSX, NSN 80-65-125/7.5 | 100 | 18 | | | 7.5 |
| 24 | NSX, NSN 80-65-125/9.2 | 100 | 23 | | | 9.2 |
| 25 | NSX, NSN 80-65-160/11.0 | 100 | 27 | 2950 | | 11 |
| 26 | NSX, NSN 80-65-160/15.0 | 100 | 36 | | | 15 |
| 27 | NSX, NSN 80-65-200/18.5 | 100 | 45 | | | 13,5 |
| 28 | NSX, NSN 80-65-200/22.0 | 100 | 53 | | | 22 |
| 29 | NSX, NSN 80-65-200/30.0 | 100 | 66 | | | 30 |
| 30 | NSX, NSN 100-80-160/11.0 | 160 | 15 | | | 11 |
| 31 | NSX, NSN 100-80-160/15.0 | 160 | 22 | | | 15 |
| 32 | NSX, NSN 100-80-160/18.5 | 160 | 28 | | | 18.5 |
| 33 | NSX, NSN 100-80-200/22.0 | 160 | 33 | | | 22 |
| 34 | NSX, NSN 100-80-200/30.0 | 160 | 45 | | | 30 |
| 35 | NSX, NSN 100-80-200/37.0 | 160 | 54 | | 37 | |

NSX, NSN 50-32

NSX, NSN 50-32-***

ISO9906 Annex A



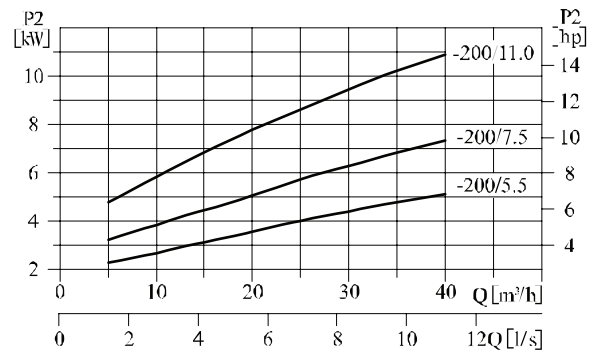
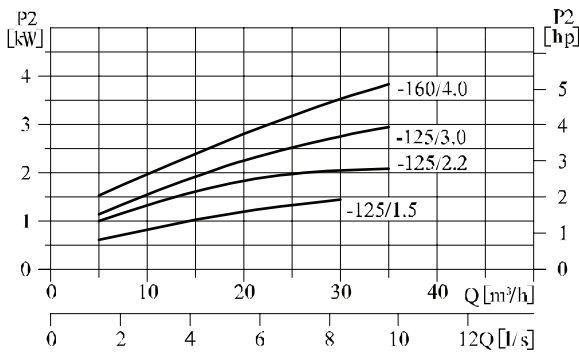
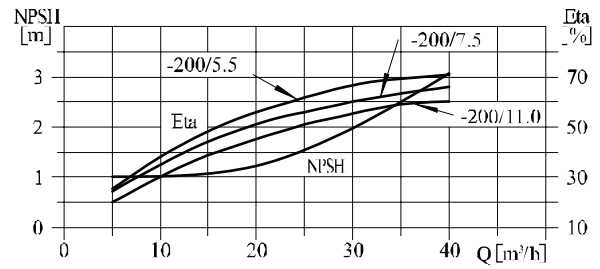
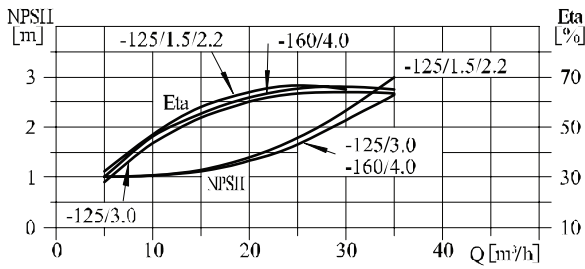
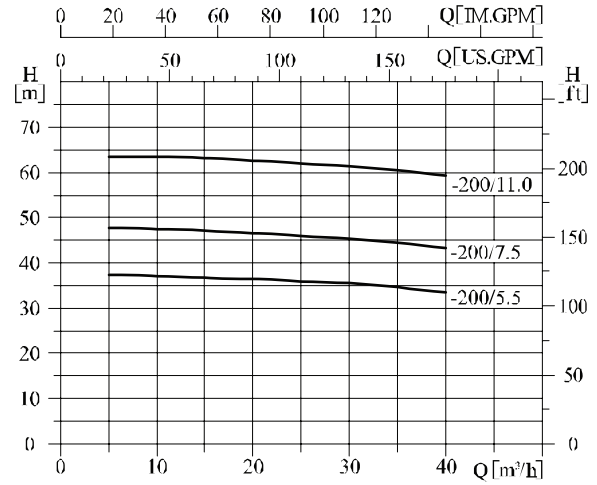
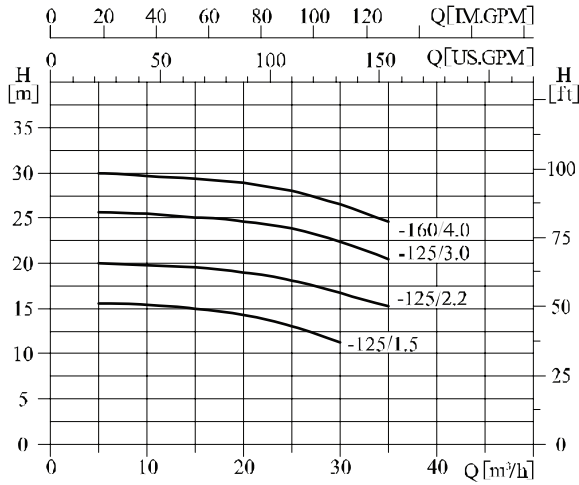
Performance table

| Model | Driving motor (kW) | | Q (m³/h) | 3 | 6.3 | 9 | 12.5 | 15 | 18 | 20 |
|------------------------|--------------------|------|----------|------|------|------|------|------|------|------|
| | (kW) | (hp) | | | | | | | | |
| NSX, NSN 50-32-160/1.1 | 1.1 | 1.5 | H (m) | 18.7 | 18 | 17.2 | 16.4 | | | |
| NSX, NSN 50-32-160/1.5 | 1.5 | 2 | | 22.5 | 22 | 21 | 20 | 19 | 18 | |
| NSX, NSN 50-32-160/2.2 | 2.2 | 3 | | 28 | 27 | 26.3 | 25 | 24 | 22.5 | |
| NSX, NSN 50-32-200/3.0 | 3 | 4 | | 34.9 | 34.1 | 33.3 | 32 | 31 | 29.8 | 28.9 |
| NSX, NSN 50-32-200/4.0 | 4 | 5.5 | | 45.7 | 44.8 | 43.7 | 42 | 40.7 | 39 | 37.7 |
| NSX, NSN 50-32-200/5.5 | 5.5 | 7.5 | | 58.5 | 57.2 | 56 | 54 | 52.5 | 50 | 48.5 |

NSX, NSN 65-40

NSX, NSN 65-40-***

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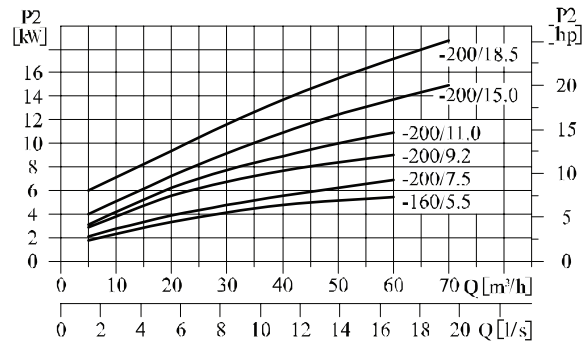
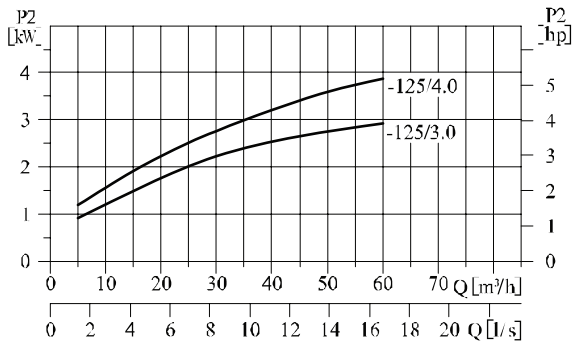
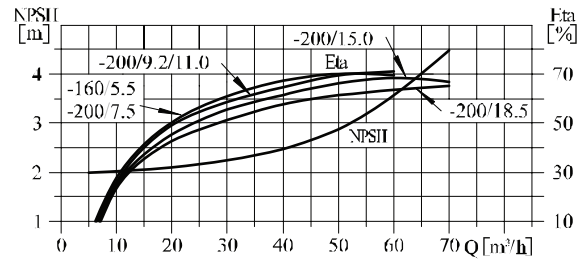
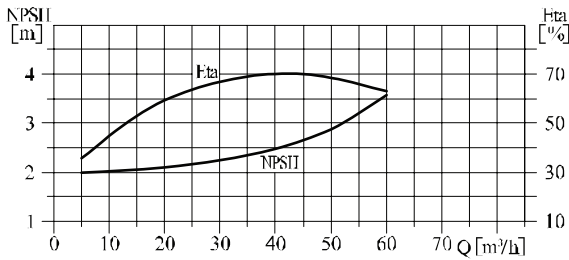
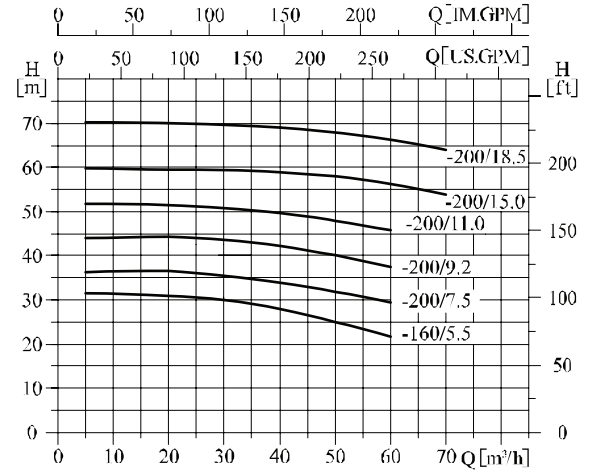
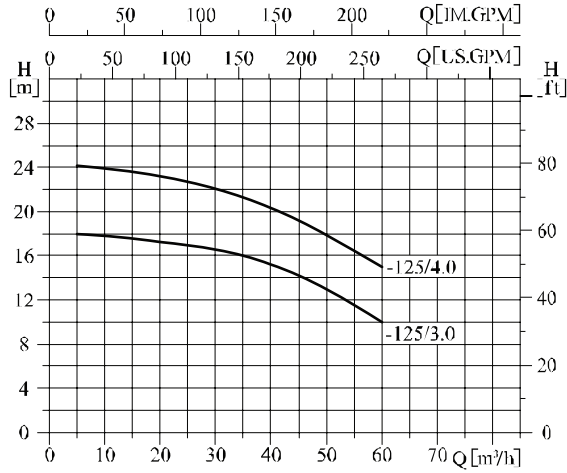
Performance table

| Model | Driving motor (kW) | | Q (m³/h) | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | |
|-------------------------|--------------------|------|----------|------|------|------|------|----|------|------|------|--|
| | (kW) | (hp) | | | | | | | | | | |
| NSX, NSN 65-40-125/1.5 | 1.5 | 2 | H (m) | 15.5 | 15.4 | 15 | 14.4 | 13 | 11.3 | | | |
| NSX, NSN 65-40-125/2.2 | 2.2 | 3 | | 20 | 19.7 | 19.5 | 19 | 18 | 16.7 | 15.2 | | |
| NSX, NSN 65-40-125/3.0 | 3 | 4 | | 25.7 | 25.3 | 25.1 | 24.8 | 24 | 22.3 | 20.3 | | |
| NSX, NSN 65-40-160/4.0 | 4 | 5.5 | | 30 | 29.7 | 29.3 | 28.9 | 28 | 26.5 | 24.5 | | |
| NSX, NSN 65-40-200/5.5 | 5.5 | 7.5 | | 37.4 | 37.2 | 36.7 | 36.4 | 36 | 35.5 | 34.6 | 33.3 | |
| NSX, NSN 65-40-200/7.5 | 7.5 | 10 | | 48 | 47.5 | 47 | 46.6 | 46 | 45.2 | 44.5 | 43.3 | |
| NSX, NSN 65-40-200/11.0 | 11 | 15 | | 64 | 63.5 | 63 | 62.5 | 62 | 61.5 | 60.5 | 59 | |

NSX, NSN 65-50

NSX, NSN 65-50-***

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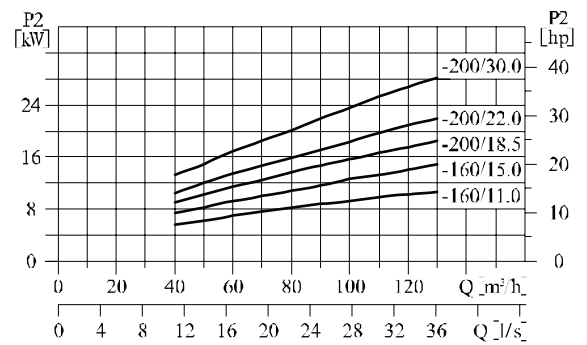
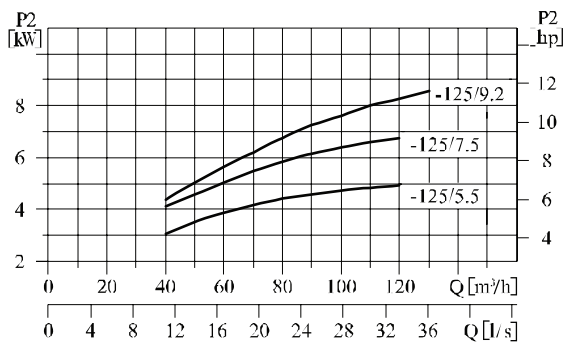
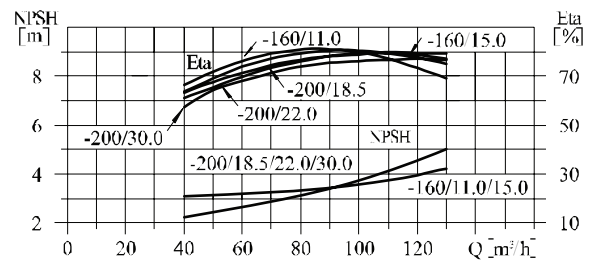
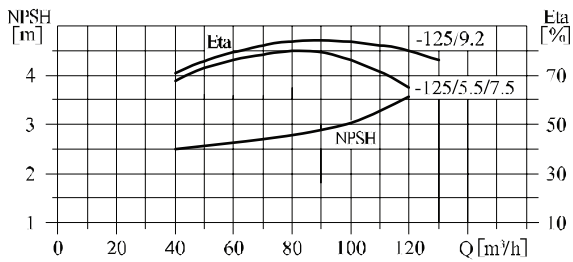
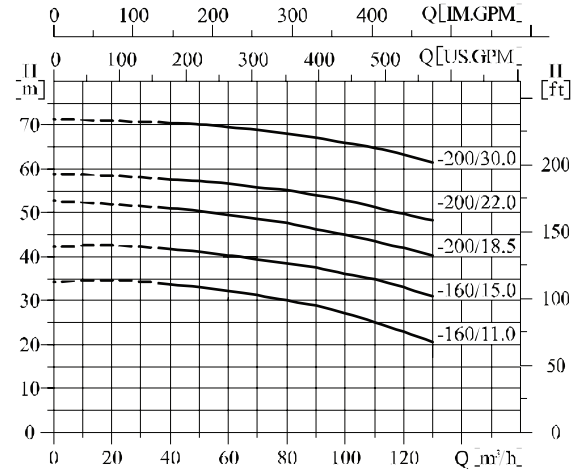
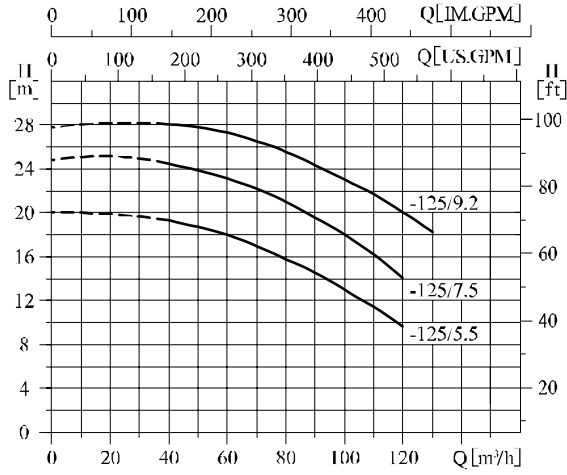
Performance table

| Model | Driving motor (kW) | | Q (m³/h) | 5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 |
|-------------------------|--------------------|------|----------|------|------|------|------|------|----|------|----|
| | (kW) | (hp) | | | | | | | | | |
| NSX, NSN 65-50-125/3.0 | 3 | 4 | H (m) | 18 | 17.8 | 17.2 | 16.4 | 15.1 | 13 | 10 | |
| NSX, NSN 65-50-125/4.0 | 4 | 5.5 | | 24.2 | 24.2 | 23.6 | 22.6 | 20.7 | 18 | 14.8 | |
| NSX, NSN 65-50-160/5.5 | 5.5 | 7.5 | | 31.6 | 31.5 | 31 | 30 | 28 | 25 | 21.5 | |
| NSX, NSN 65-50-200/7.5 | 7.5 | 10 | | 36.3 | 36.6 | 36.4 | 35.6 | 34.1 | 32 | 29.6 | |
| NSX, NSN 65-50-200/9.2 | 9.2 | 12.5 | | 43.5 | 43.5 | 43.5 | 43 | 42 | 40 | 37.5 | |
| NSX, NSN 65-50-200/11.0 | 11 | 15 | | 51.5 | 51.5 | 51 | 50 | 49.3 | 48 | 45.6 | |
| NSX, NSN 65-50-200/15.0 | 15 | 20 | | 59.7 | 59.7 | 59.6 | 59.5 | 59 | 58 | 56.2 | 53 |
| NSX, NSN 65-50-200/18.5 | 18.5 | 25 | | 70.2 | 70.2 | 70.1 | 70 | 69.1 | 68 | 66.4 | 64 |

NSX, NSN 80-65

NSX, NSN 80-65-***:

ISO9906 Annex A



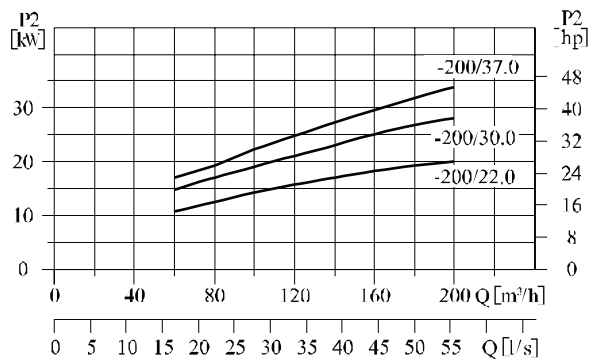
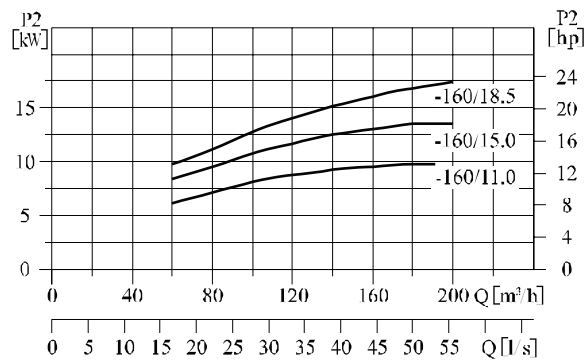
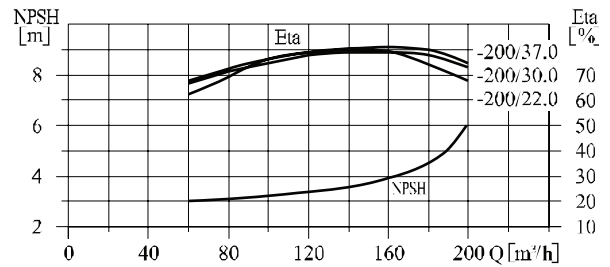
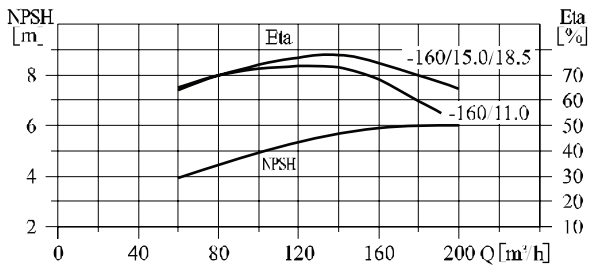
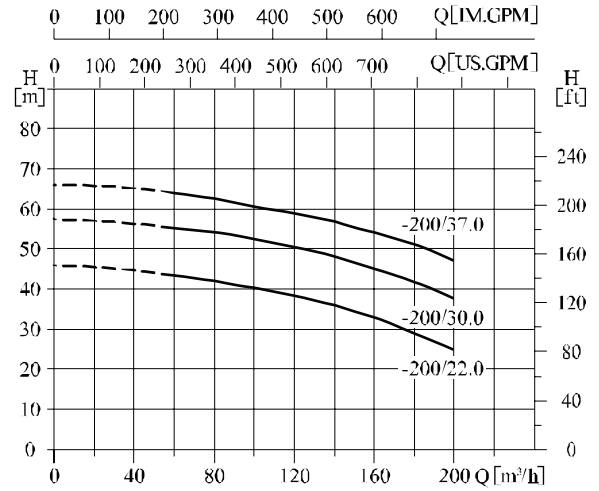
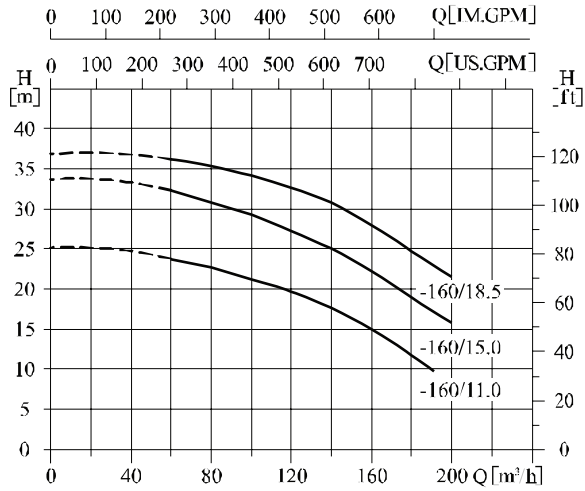
Performance table

| Model | Driving motor (kW) | | Q (m³/h) | H (m) | | | | | | | | | |
|-------------------------|--------------------|------|----------|-------|------|------|------|------|------|-----|------|------|------|
| | (kW) | (hp) | | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 |
| NSX, NSN 80-65-125/5.5 | 5.5 | 7.5 | H (m) | 19.3 | 18.7 | 18 | 17 | 15.S | 14.8 | 13 | 11.4 | 9.7 | |
| NSX, NSN 80-65-125/7.5 | 7.5 | 10 | | 24.5 | 23.8 | 23.1 | 22.2 | 21 | 19.6 | 18 | 16.2 | 14.1 | |
| NSX, NSN 80-65-125/9.2 | 9.2 | 12.5 | | 28.1 | 27.8 | 27.3 | 26.6 | 25.7 | 24.3 | 23 | 21.S | 20.1 | 18.3 |
| NSX, NSN 80-65-160/11.0 | 11 | 15 | | 33.9 | 33 | 32.2 | 31.3 | 29.9 | 28.8 | 27 | 25.1 | 22.9 | 20.7 |
| NSX, NSN 80-65-160/15.0 | 15 | 20 | | 41.8 | 41.1 | 40.4 | 39.5 | 38.6 | 37.6 | 36 | 34.8 | 33 | 31 |
| NSX, NSN 80-65-200/18.5 | 18.5 | 25 | | 51 | 50.5 | 49.6 | 48.7 | 47.6 | 46.3 | 45 | 43.5 | 42.2 | 40.2 |
| NSX, NSN 80-65-200/22.0 | 22 | 30 | | 57.7 | 57.2 | 56.8 | 55.9 | 55.1 | 54 | 53 | 51.6 | 49.7 | 48.2 |
| NSX, NSN 80-65-200/30.0 | 30 | 40 | | 70.2 | 70.2 | 69.6 | 68.9 | 68.2 | 67.1 | 66 | 64.6 | 63.3 | 61.4 |

NSX, NSN 100-80

NSX, NSN 100-80-***

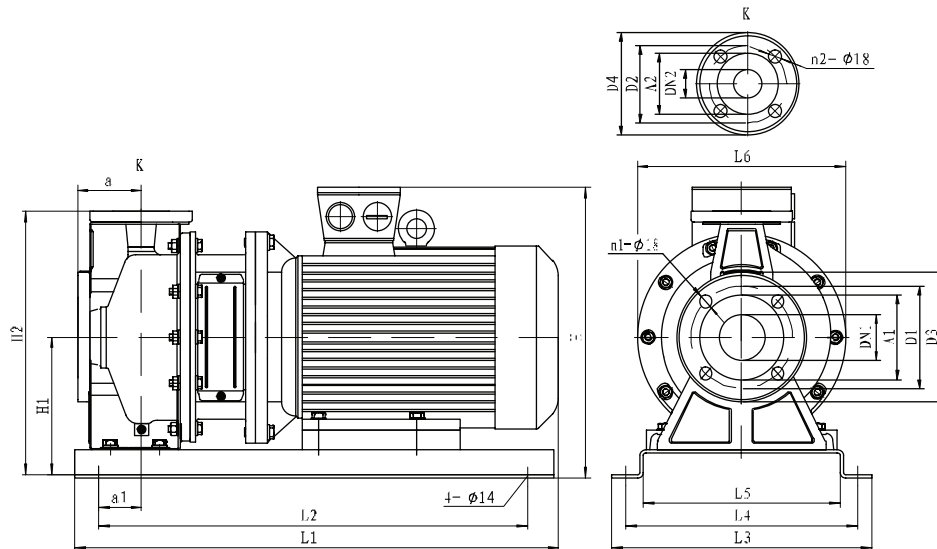
ISO9906 Annex A



Performance table

| Model | Driving motor (kW) | | Q (m³/h) | H (m) | | | | | | | | |
|--------------------------|--------------------|------|----------|-------|------|------|------|------|-----|------|------|------|
| | (kW) | (hp) | | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 192 | 200 |
| NSX, NSN 100-80-160/11.0 | 11 | 15 | H (m) | 23.8 | 22.7 | 21.1 | 19.7 | 17.6 | 15 | 11.8 | 9.7 | |
| NSX, NSN 100-80-160/15.0 | 15 | 20 | | 32.3 | 30.8 | 29.1 | 27.2 | 25.1 | 22 | 18.8 | 17.2 | 16.1 |
| NSX, NSN 100-80-160/18.5 | 18.5 | 25 | | 36.2 | 35.2 | 33.8 | 32.7 | 31 | 28 | 24.8 | 23 | 21.5 |
| NSX, NSN 100-80-200/22.0 | 22 | 30 | | 43.5 | 42 | 39.7 | 38.3 | 35.9 | 33 | 29 | 26.7 | 24.9 |
| NSX, NSN 100-80-200/30.0 | 30 | 40 | | 55.4 | 54.1 | 52.6 | 50.5 | 48.2 | 45 | 41.9 | 39.3 | 37.6 |
| NSX, NSN 100-80-200/37.0 | 37 | 50 | | 64.1 | 62.5 | 61 | 59 | 57.4 | 54 | 51.2 | 48.7 | 47.1 |

Installation sketch



Size and weight

| Model | Size (mm) | | | | | | | | | | | | | | | | | | | | Weight (kg) | |
|--------------------------|-----------|-----|-----|-----|-----|-----|-----|-----|----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-------------|-----|
| | DN1 | DN2 | A1 | A2 | D1 | D2 | D3 | D4 | n1 | n2 | a | a1 | H | H1 | H2 | L1 | L2 | L3 | L4 | L5 | | L6 |
| NSX, NSN 50-32-160/1.1 | 50 | 32 | 98 | 75 | 125 | 100 | 160 | 139 | 4 | 4 | 80 | 32 | 290 | 152 | 296 | 470 | 370 | 280 | 240 | 192 | 210 | 31 |
| NSX, NSN 50-32-160/1.5 | 50 | 32 | 98 | 75 | 125 | 100 | 160 | 139 | 4 | 4 | 80 | 46 | 307 | 152 | 296 | 500 | 430 | 280 | 240 | 192 | 210 | 37 |
| NSX, NSN 50-32-160/2.2 | 50 | 32 | 98 | 75 | 125 | 100 | 160 | 139 | 4 | 4 | 80 | 46 | 307 | 152 | 296 | 500 | 430 | 280 | 240 | 192 | 210 | 39 |
| NSX, NSN 50-32-200/3.0 | 50 | 32 | 98 | 75 | 125 | 100 | 160 | 139 | 4 | 4 | 84 | 42 | 370 | 200 | 386 | 550 | 460 | 330 | 290 | 242 | 300 | 53 |
| NSX, NSN 50-32-200/4.0 | 50 | 32 | 98 | 75 | 125 | 100 | 160 | 139 | 4 | 4 | 84 | 47 | 393 | 200 | 386 | 560 | 480 | 330 | 290 | 242 | 300 | 58 |
| NSX, NSN 50-32-200/5.5 | 50 | 32 | 98 | 75 | 125 | 100 | 160 | 139 | 4 | 4 | 84 | 50 | 413 | 200 | 386 | 660 | 580 | 370 | 330 | 280 | 300 | 77 |
| NSX, NSN 65-40-125/1.5 | 65 | 40 | 118 | 84 | 145 | 110 | 185 | 145 | 4 | 4 | 80 | 45 | 307 | 152 | 294 | 502 | 430 | 280 | 240 | 192 | 210 | 33 |
| NSX, NSN 65-40-125/2.2 | 65 | 40 | 118 | 84 | 145 | 110 | 185 | 145 | 4 | 4 | 80 | 45 | 307 | 152 | 294 | 502 | 430 | 280 | 240 | 192 | 210 | 35 |
| NSX, NSN 65-40-125/3.0 | 65 | 40 | 118 | 84 | 145 | 110 | 185 | 145 | 4 | 4 | 80 | 45 | 322 | 152 | 294 | 532 | 460 | 300 | 260 | 212 | 250 | 47 |
| NSX, NSN 65-40-160/4.0 | 65 | 40 | 118 | 84 | 145 | 110 | 185 | 145 | 4 | 4 | 80 | 45 | 345 | 152 | 294 | 557 | 480 | 330 | 290 | 242 | 250 | 52 |
| NSX, NSN 65-40-200/5.5 | 65 | 40 | 118 | 84 | 145 | 110 | 185 | 145 | 4 | 4 | 100 | 50 | 413 | 200 | 380 | 680 | 580 | 370 | 330 | 280 | 300 | 78 |
| NSX, NSN 65-40-200/7.5 | 65 | 40 | 118 | S4 | 145 | 110 | 135 | 145 | 4 | 4 | 100 | 50 | 413 | 200 | 380 | 680 | 580 | 370 | 330 | 280 | 300 | 82 |
| NSX, NSN 65-40-200/11.0 | 65 | 40 | 118 | 84 | 145 | 110 | 185 | 145 | 4 | 4 | 100 | 50 | 456 | 200 | 380 | 790 | 690 | 420 | 380 | 330 | 350 | 161 |
| NSX, NSN 65-50-125/3.0 | 65 | 50 | 118 | 98 | 145 | 125 | 185 | 160 | 4 | 4 | 86 | 45 | 342 | 172 | 338 | 548 | 468 | 330 | 290 | 242 | 250 | 49 |
| NSX, NSN 65-50-125/4.0 | 65 | 50 | 118 | 98 | 145 | 125 | 185 | 160 | 4 | 4 | 86 | 45 | 365 | 172 | 338 | 570 | 490 | 330 | 290 | 242 | 250 | 54 |
| NSX, NSN 65-50-160/5.5 | 65 | 50 | 118 | 98 | 145 | 125 | 185 | 160 | 4 | 4 | 100 | 50 | 413 | 200 | 380 | 680 | 580 | 370 | 330 | 280 | 300 | 78 |
| NSX, NSN 65-50-200/7.5 | 65 | 50 | 118 | 98 | 145 | 125 | 185 | 160 | 4 | 4 | 100 | 50 | 413 | 200 | 380 | 680 | 580 | 370 | 330 | 280 | 300 | 82 |
| NSX, NSN 65-50-200/9.2 | 65 | 50 | 118 | 98 | 145 | 125 | 185 | 160 | 4 | 4 | 100 | 50 | 413 | 200 | 380 | 680 | 580 | 370 | 330 | 280 | 300 | 85 |
| NSX, NSN 65-50-200/11.0 | 65 | 50 | 118 | 98 | 145 | 125 | 185 | 160 | 4 | 4 | 100 | 50 | 456 | 200 | 380 | 790 | 690 | 420 | 380 | 330 | 350 | 161 |
| NSX, NSN 65-50-200/15.0 | 65 | 50 | 118 | 98 | 145 | 125 | 185 | 160 | 4 | 4 | 100 | 50 | 456 | 200 | 380 | 790 | 690 | 420 | 380 | 330 | 350 | 171 |
| NSX, NSN 65-50-200/18.5 | 65 | 50 | 118 | 98 | 145 | 125 | 185 | 160 | 4 | 4 | 100 | 50 | 456 | 200 | 380 | 830 | 730 | 420 | 380 | 330 | 350 | 188 |
| NSX, NSN 80-65-125/5.5 | 80 | 65 | 130 | 118 | 160 | 145 | 200 | 185 | 8 | 4 | 100 | 50 | 413 | 200 | 380 | 690 | 590 | 370 | 330 | 280 | 300 | 79 |
| NSX, NSN 80-65-125/7.5 | 80 | 65 | 130 | 118 | 160 | 145 | 200 | 185 | 8 | 4 | 100 | 50 | 413 | 200 | 380 | 690 | 590 | 370 | 330 | 280 | 300 | 83 |
| NSX, NSN 80-65-125/9.2 | 80 | 65 | 130 | 118 | 160 | 145 | 200 | 185 | 8 | 4 | 100 | 50 | 413 | 200 | 380 | 690 | 590 | 370 | 330 | 280 | 300 | 87 |
| NSX, NSN 80-65-160/11.0 | 80 | 65 | 130 | 118 | 160 | 145 | 200 | 185 | 8 | 4 | 100 | 50 | 456 | 200 | 400 | 790 | 690 | 420 | 380 | 330 | 350 | 163 |
| NSX, NSN 80-65-160/15.0 | 80 | 65 | 130 | 118 | 160 | 145 | 200 | 185 | 8 | 4 | 100 | 50 | 456 | 200 | 400 | 790 | 690 | 420 | 380 | 330 | 350 | 173 |
| NSX, NSN 80-65-200/18.5 | 80 | 65 | 130 | 118 | 160 | 145 | 200 | 185 | 8 | 4 | 100 | 50 | 476 | 220 | 445 | 830 | 730 | 420 | 380 | 330 | 350 | 190 |
| NSX, NSN 80-65-200/22.0 | 80 | 65 | 130 | 118 | 160 | 145 | 200 | 185 | 8 | 4 | 100 | 50 | 500 | 220 | 445 | 880 | 780 | 455 | 415 | 365 | 350 | 220 |
| NSX, NSN 80-65-200/30.0 | 80 | 65 | 130 | 118 | 160 | 145 | 200 | 185 | 8 | 4 | 100 | 50 | 550 | 240 | 465 | 950 | 850 | 495 | 455 | 405 | 400 | 292 |
| NSX, NSN 100-80-160/11.0 | 100 | 80 | 150 | 130 | 180 | 160 | 220 | 200 | 8 | 8 | 125 | 75 | 476 | 220 | 445 | 830 | 730 | 420 | 380 | 330 | 350 | 163 |
| NSX, NSN 100-80-150/15.0 | 100 | 80 | 150 | 130 | 180 | 160 | 220 | 200 | 8 | 8 | 125 | 75 | 476 | 220 | 445 | 830 | 730 | 420 | 380 | 330 | 350 | 173 |
| NSX, NSN 100-80-150/18.5 | 100 | 80 | 150 | 130 | 180 | 160 | 220 | 200 | 8 | 8 | 125 | 75 | 476 | 220 | 445 | 870 | 770 | 420 | 380 | 330 | 350 | 185 |
| NSX, NSN 100-80-200/22.0 | 100 | 80 | 150 | 130 | 180 | 160 | 220 | 200 | 8 | 8 | 125 | 75 | 500 | 220 | 470 | 915 | 810 | 455 | 415 | 365 | 350 | 223 |
| NSX, NSN 100-80-200/30.0 | 100 | 80 | 150 | 130 | 180 | 160 | 220 | 200 | 8 | 8 | 125 | 75 | 550 | 240 | 490 | 985 | 880 | 495 | 455 | 405 | 400 | 295 |
| NSX, NSN 100-80-200/37.0 | 100 | 80 | 150 | 130 | 180 | 160 | 220 | 200 | 8 | 8 | 125 | 75 | 550 | 240 | 490 | 985 | 880 | 495 | 455 | 405 | 400 | 315 |

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