

hydroo®

VDR00 SERIES

Vertical multi-stage
centrifugal pumps
立式多级离心泵
50 Hz





CONTENTS 目录

English Catalogue (GB)

Presentation	4
Introduction	5
Performance scope	7
Pump and Motor	8
Application and Operation conditions	8
Product range	8
Definition of model	9
Max. Ambient temperature	9
Max. working pressure	9
Performance curve	10
Minimum inlet pressure NPSH	10
Sectional drawing and material	11
VXE and VNE introduction	24

中文样本 (CN)

公司简介	14
产品介绍	15
性能范围	17
泵和电机	18
应用和运行条件	18
产品范围	18
型号说明	19
最大环境温度	19
最大工作压力	19
性能曲线解读	20
最小进口压力 NPSH	20
剖面图和材料	21
VXE and VNE 介绍	24

Appendix

Performance curve and technical data	26
Motor data	61

附录

性能曲线和技术数据	26
电机数据	61

PRESENTATION

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

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

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

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

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

INTRODUCTION

PUMP Range presentation and main features

VDROO is a new series of vertical multistage centrifugal pumps made by Hydroo. It includes different versions: VF, VX, VN and VD and their corresponding pumps sets with motor and with variable frequency drivers, VXE and VNE.

VDROO range has been designed to meet the highest demanding in pumping installations. It has been designed, engineered, industrialized and finally, is being produced in the main factory of Hydroo in Palol de Revardit, Catalonia-Spain.



Main technical benefits

VDROO range is ready to meet the most demanding applications and it is able to suit to any pumping installation with the best technical results.

- Cartridge mechanical seal for an easy seal maintenance without need to remove the motor
- Wide range of connections to match the installation requirements: oval, DIN flange, threaded, Cutting ferrule joint
- Wide variety of materials. All parts in contact with the pumped liquid can be made of AISI304 SS (VX), AISI316 SS (VN), Mixed with cast iron and AISI304 SS (VF) or even in Duplex SS (VD) for specific sizes
- Readiness to a wide variety of liquids by means of using the right pump materials, as well as o-rings or mechanical seals
- All pumps are individually tested and results are always available for customers
- Provides the biggest pumping range in the market starting at 1 m³/h up to 210 m³/h in the BEP. All in just 13 sizes to optimise pump's selection
- All the range is energy-optimised and in compliance with the ErP Regulation of the EU Commission No. 547/2012, providing higher MEI grade than the minimum of the mentioned regulation

Background and context of VXE and VNE

In all areas of application, such as domestic water supply, industry, agriculture and water treatment, the demand for intelligent pumping systems is constantly growing.

There are many advantages: reduced cost for pump life cycle, lower environmental impact, longer lifetime of pipes and unions.

Here HYDROO has developed the VXE/VNE: an intelligent pumping system which assures high level performance with energy consumption tailored to demand.

Minimum efficiency index(MEI)

Model	MEI
VDROO1-3	≥0.70
VDROO3-3	≥0.70
VDROO5-3	≥0.70
VDROO10-3	≥0.70
VDROO15-3	≥0.70
VDROO20-3	≥0.70
VDROO32-3	≥0.70
VDROO45-3	≥0.70
VDROO65-3	≥0.60
VDROO95-3	≥0.70
VDROO130-3	≥0.70
VDROO155-3	≥0.70



Highest pump performance is related to the motor and the hydraulics detailed design. We use the high-end technical resources to reach the best in the market results. Maximised hydraulic efficiency and IE3 standard motors turn out to a unique leading pump concept: robust, reliable, flexible, user-adjustable, smart and multi-purpose.



Added value relies on material selection, the industrial process of the components production and the usable design of all the single details. Pump flexibility, high line-up of options and personalized service is our added value.



Quality assurance is a key factor for added value products. We at Hydroo watch the pump quality, the crafted manufacturing process and expedition quality are integrated in our core service offer. Moreover, variable frequency drivers are available to get the best pump service in any kind of installation. World is in motion and we contribute to it with warmth and commitment.



Our commitment with the environment is in the base of our company thinking. All processes consider the minimum impact in our own home. Within the designing process we had in mind any individual requirement to get the best result for our customers.



We take care of our customer's pumps. We are our customer's factory and they deserve our full commitment in excellence and exemplary corporate culture. We consider no boundaries within the value chain, starting from industrial installation engineering to pump managing. This vision results in a close cooperation with all players to get the best pumping solution.

VF VX
VN VD
VXE VNE

**Vertical multistage
 stainless steel
 centrifugal pump**

Applications

Cooling water system
**Municipal water supply
 and boosting**
Domestic water supply
Irrigation
General industrial services
Washing plants
**Boiler feed and condensate
 system**
Water treatment

Description

Vertical multistage in-line 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.

WRAS / ACS certified.

VF version: hydraulic part in AISI304 SS, pump inlet/outlet made in cast iron.

VX/VN version: whole pumps available in AISI304 or AISI316.

VD version: hydraulic part in AISI904 / SS2205.

VXE/VNE version: whole pumps available in AISI304 or AISI316 with variable frequency motor

Performance range

Capacity: Q up to 240 m³/h

Head: H up to 323 m

Temperature: T up to 120 °C

Speed: n 2900 rpm or 2950 rpm

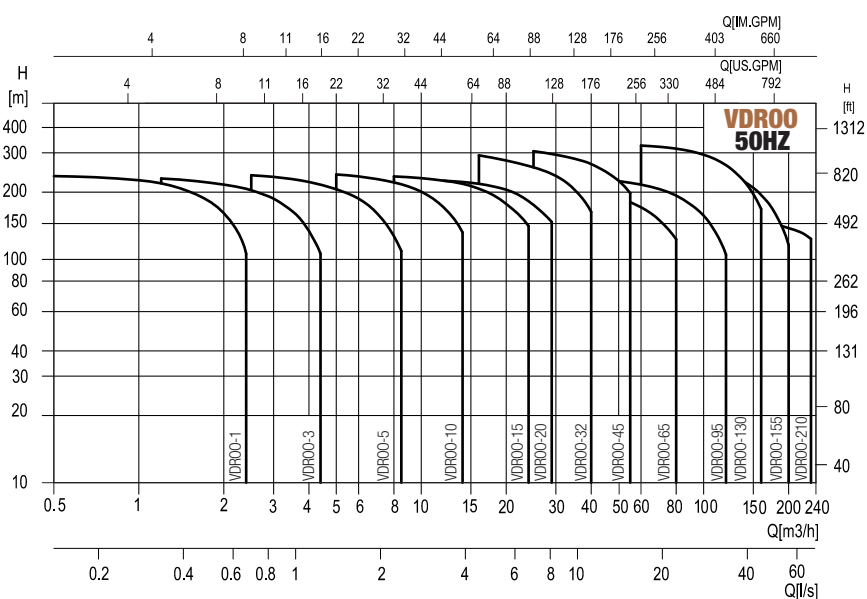
Power: P up to 110 kW

Standard material

All the parts in contact with liquid made of 304 stainless steel, 316 stainless steel on request. The flange can be made of stainless steel on request too.



Performance scope



Pump

VDROO is a kind of vertical non-self priming multistage centrifugal pump, which is driven by a standard electric motor. The motor output shaft directly connects with the pump shaft through a coupling. The pressure-resistant cylinder and flow passage components are fixed between pump head and inlet&outlet section with stay bolts. The inlet and outlet are located at the pump bottom at the same plane. This kind of pump can be equipped with an intelligent protector to effectively prevent it from dry-running, out-of-phase and overload.

Motor (VF/VX/VN/VD)

Full-enclosed air-blast two-pole IE3 efficiency standard motor
Protection class: IP55
Insulation class: F
Frequency: 50Hz
Standard voltage: 1x220-230/240V
3x200-220/346-380V
3x220,240/380-415V
3x380-415V

PMSM (VXE/VNE)

Permanent magnet synchronous motor
Protection class: IP55
Insulation class: F
Frequency: 0~50Hz
Standard voltage: 3x380-440V

Application

VDROO is a kind of multifunctional products.

It can be used to convey various medium from tap water to industrial liquid at different temperature and with different flow rate and pressure. VDROO type is applicable to conveying non-corrosive liquid, while VDROO is suitable for slightly corrosive liquid.

–Water supply: Water filter and transport in waterworks boosting of main pipeline, boosting in high-rise buildings.

–Industrial boosting: process flow water system, cleaning system, high-pressure washing system, fire fighting system.

– Industrial liquid conveying: Cooling and air-conditioning system, boiler water supply and condensing system, machine-associated purpose, acids and alkali.

–Water treatment: Ultra filtration system, reverse osmosis system distillation system, separator, swimming pool.

–Irrigation : Farmland irrigation, spray irrigation, dripping irrigation.

Operation conditions

–Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.

–Liquid temperature: -15°C to +120°C

–Ambient temperature:
up to +40°C (VF/VX/VN/VD)
up to +50°C (VXE/VNE)

–Altitude: up to 1000m

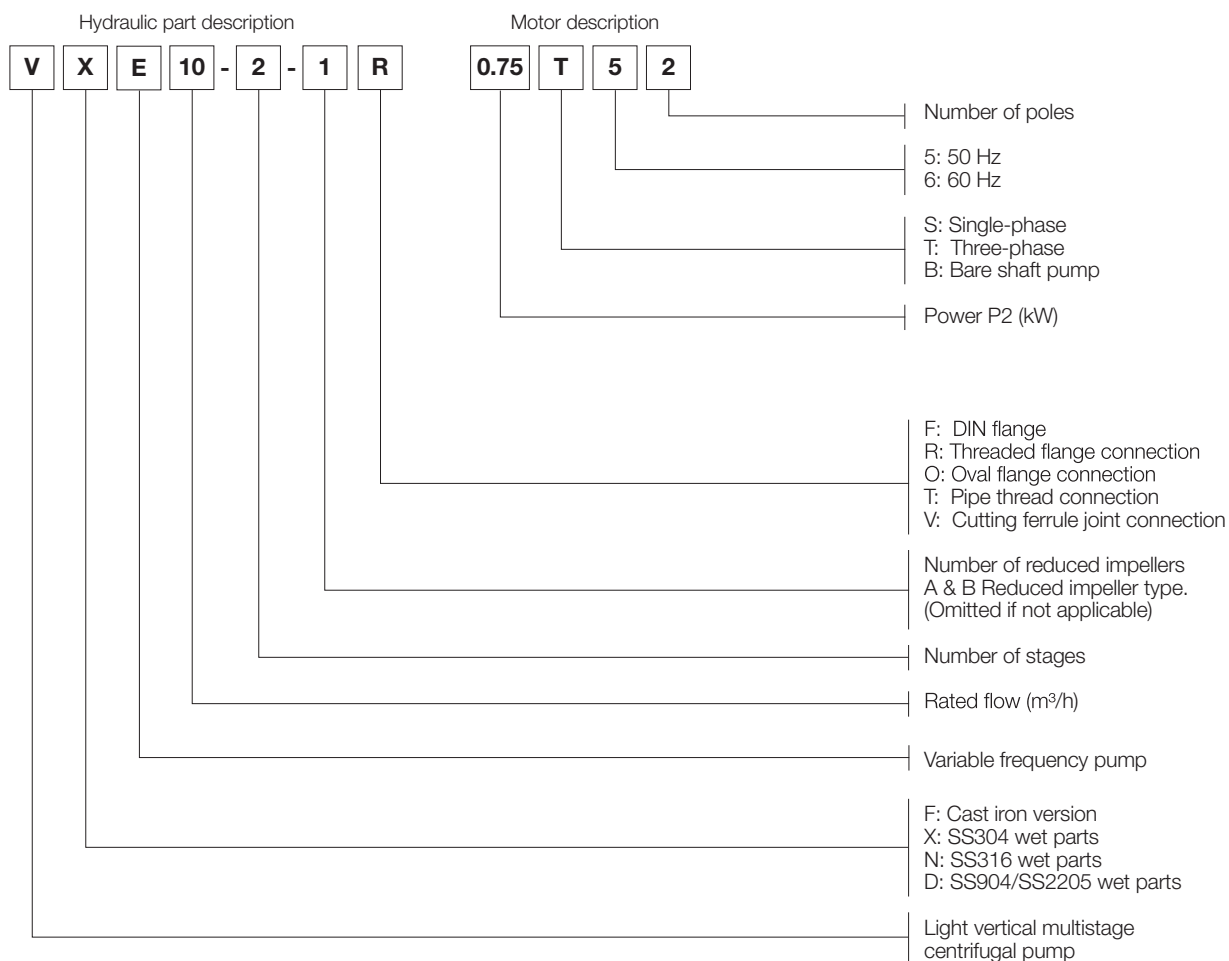
Product range

Description	VDROO 1	3	5	10	15	20	32	45	65	95	130	155	210
Rated flow [m³/h]	1	3	5	10	15	20	32	45	65	95	130	155	210
Rated flow [l/s]	0.28	0.83	1.39	2.78	4.17	5.56	8.9	12.5	18.1	26.39	36.11	43.06	58.3
Flow range [m³/h]	0.5~2.4	1.2~4.4	2.5~8.5	5~14	8~24	10~29	16~40	25~55	30~80	45~120	60~160	75~200	100~240
Max. pressure. [bar]	24	23	24	24	24	23	29	30	22	24	33	28	16
Motor power [kW]	0.37~2.2	0.37~3	0.37~5.5	0.75~11	1.1~15	1.1~18.5	1.5~30	3~45	4~45	5.5~55	11~110	11~110	18.5~110
Temp. [°C]	-15 ~ +120												
Max. efficiency [%]	48	58	70	72	73	73	73	75	76	81.5	83	82	79
MEI rates	≥ 0.70								≥ 0.60	≥ 0.70			
VF	•	•	•	•	•	•	•	•	•	•	•	•	•
VX, VN	•	•	•	•	•	•	•	•	•	•	•	•	•
VD							•	•	•	•	•	•	•
VXE, VNE		•	•	•	•	•	•	•	•	•			
VF, VX, VN, VD DIN Flange	DN25	DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN150	DN150	DN150
VX, VN Cutting ferrule joint	DN32	DN32	DN32	DN50	DN50	DN50							
VX, VN Pipe thread	R1¼	R1¼	R1¼	R2	R2	R2							
VF, VX, VN Oval Flange	G1	G1	G1¼	G1½									
VXE, VNE DIN Flange		DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100				

Definition of model

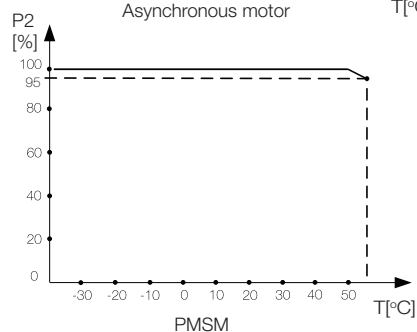
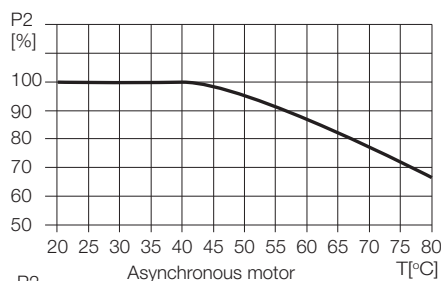
VF, VX, VN, VXE, VNE 1, 3, 5, 10, 15, 20

VF, VX, VN, VD, VXE, VNE 32, 45, 65, 95, 130, 155, 210



Max. Ambient temperature

When the pump operates under ambient temperature higher than 40°C, because of low air density and poor cooling effects, the motor output power P2 will be decreased to certain extent. If the pump is operated under the above-said conditions, it should be equipped with motor of higher power.



Max. working pressure

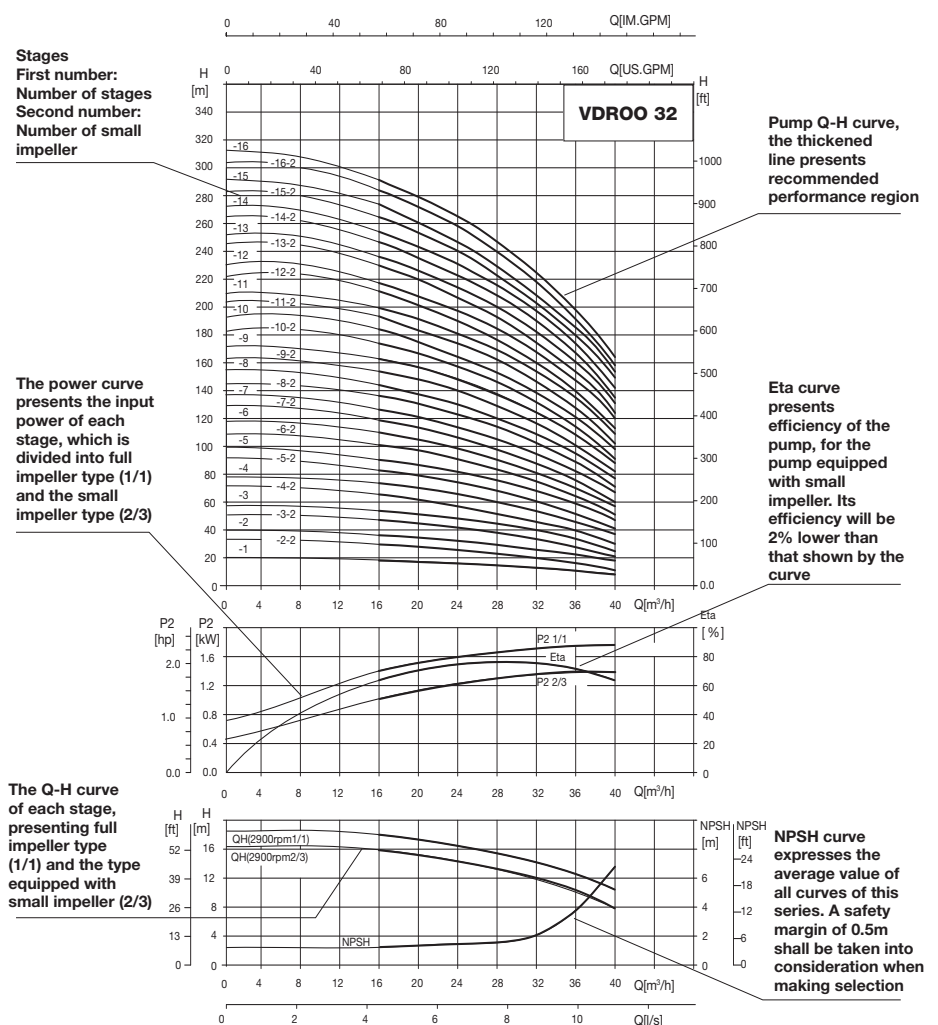
Model	Max. pressure (bar)
VF, VX, VN, VXE, VNE 1,3,5,10,15,20 Flange, cutting ferrule joint, pipe thread	25
VF, VX, VN 1,3,5,10 Oval Flange	16
VF 32-1-1 ~ 32-8	16
VF 32-9-2 ~ 32-16	30
VX, VN, VD, VXE, VNE 32	30
VF 45-1-1 ~ 45-6-2	16
VF 45-6 ~ 45-9	25
VF 45-10-2 ~ 45-13-2	30
VX, VN, VD, VXE, VNE 45-1-1 ~ 45-9	25
VX, VN, VD, VXE, VNE 45-10-2 ~ 45-13-2	30
VF 65-1-1 ~ 65-5-2	16
VF 65-5-1 ~ 65-8-1	25
VX, VN, VD, VXE, VNE 65	25
VF, VX, VN, VXE, VNE 95	25
VF, VX, VN 125-1 ~ 125-5	25
VX, VN 125-6 ~ 125-10	40
VF, VX, VN 155-1-1 ~ 155-4-1	25
VX, VN 155-5-2 ~ 155-8-2	40
VF, VX, VN, VD 210	20

Performance curve

Following conditions are suitable for the performance curves shown below:

1. All curves are based on the measured values of 50Hz: constant motor speed 2900rpm or 2950rpm.
2. Curve tolerance in conformity with ISO9906 Annex A.
3. Measurement is done with 20°C air-free water, kinematic viscosity of 1mm²/sec.
4. The operation of pump shall refer to the performance region indicated by the thickened curve to prevent over-heating due to too small flow rate or overload of motor due to too large flow rate.

Curve illustration



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 stroke can be calculated with following formula: $H = P_b \times 10.2 - NPSH - H_f - H_v - H_s$
 P_b = atmosphere pressure [bar] (can be set as 1bar)

In a closed system, P_b means system pressure [bar]

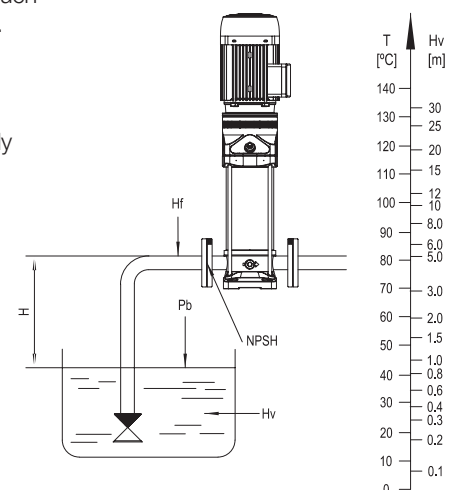
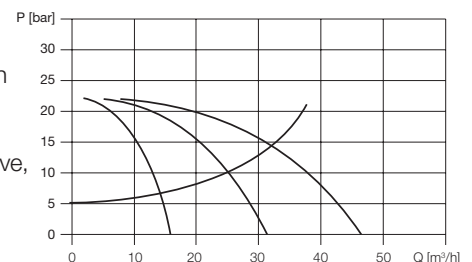
$NPSH$ = Net positive suction head [m]
 (It can be read out from the point of possible max. Flow rate shown on NPSH curve)
 H_f = Pipeline loss at the inlet [m]
 H_v = Steam pressure [m]
 H_s = Safety margin = Minimum 0.5m delivery head

If the calculated result H is positive, the pump may Run under the max. Suction stroke H .

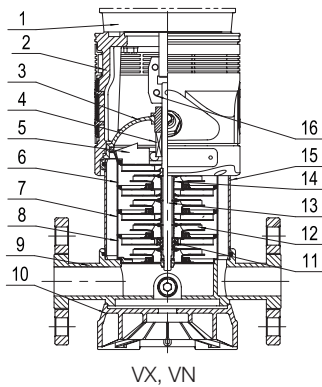
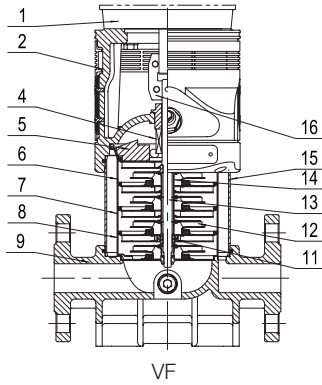
In case the calculated result H is negative, a delivery head of min. Inlet pressure is necessary.

Operation in parallel connecting several pumps in parallel running will benefit much more than running a single large pump.

Applicable to different working states necessary in a variable flow system. Increasing the possibility of water supply when the pump is in failure, because in case of pump failure, only part of the system flow is effected.



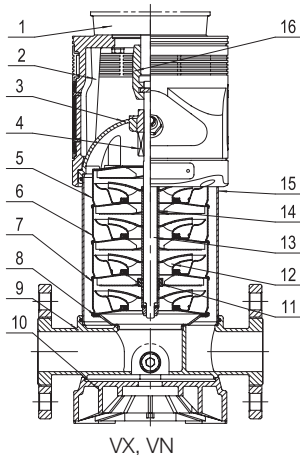
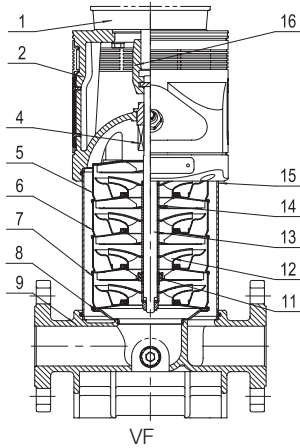
Sectional drawing VF, VX, VN, VXE, VNE 1, 3, 5



Material VF, VX, VN, VXE, VNE 1, 3, 5

N°	Name	Material	AISI / ASTM
1	Motor		
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal	SiC/SiC/EPDM	
5	Top diffuser	Stainless steel	AISI304 / AISI316
6	Diffuser	Stainless steel	AISI304 / AISI316
7	Support diffuser	Stainless steel	AISI304 / AISI316
8	Inducer	Stainless steel	AISI304 / AISI316
11	Bearing	Turgsten carbide	
12	Impeller	Stainless steel	AISI304 / AISI316
13	Shaft	Stainless steel	AISI304 / AISI316
14	Impeller sleeve	Stainless steel	AISI304 / AISI316
15	Cylinder	Stainless steel	AISI304 / AISI316
16	Coupling	Carbon steel	
	Rubber parts	EPDM/FPM	
VX, VN			
3	Seal base	Stainless steel	AISI304 / AISI316
9	Inlet and outlet chamber	Stainless steel	AISI304 / AISI316
10	Base plate	Aluminium	
VF			
9	Inlet and outlet chamber	Cast iron	ASTM25B

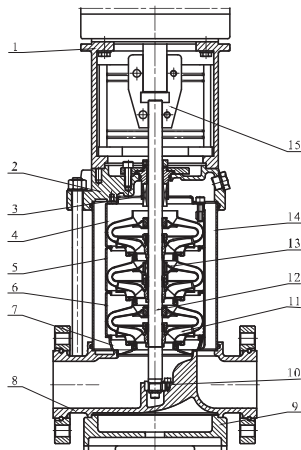
Sectional drawing VF, VX, VN, VXE, VNE 10, 15, 20



Material VF, VX, VN, VXE, VNE 10,15, 20

N°	Name	Material	AISI / ASTM
1	Motor		
2	Pump head	Cast iron	ASTM25B
4	Mechanical seal	SiC/SiC/EPDM	
5	Top diffuser	Stainless steel	AISI304 / AISI316
6	Diffuser	Stainless steel	AISI304 / AISI316
7	Support diffuser	Stainless steel	AISI304 / AISI316
8	Inducer	Stainless steel	AISI304 / AISI316
11	Bearing	Turgsten carbide	
12	Impeller	Stainless steel	AISI304 / AISI316
13	Shaft	Stainless steel	AISI304 / AISI316
14	Impeller sleeve	Stainless steel	AISI304 / AISI316
15	Cylinder	Stainless steel	AISI304 / AISI316
16	Coupling	Carbon steel	
	Rubber parts	EPDM/FPM	
VX , VN			
3	Seal base	Stainless steel	AISI304 / AISI316
9	Inlet and outlet chamber	Stainless steel	AISI304 / AISI316
10	Base plate	Aluminium	
VF			
9	Inlet and outlet chamber	Cast iron	ASTM25B

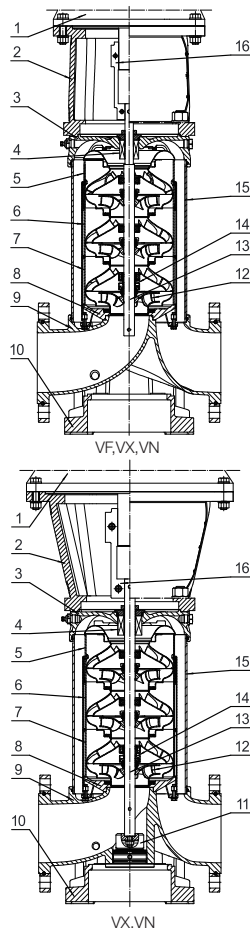
Sectional drawing VF, VX, VN, VD, VXE, VNE 32,45,65



Material VF, VX, VN, VD, VXE, VNE 32, 45, 65

N°	Name	Material	AISI / ASTM
1	Bracket	Cast iron	ASTM25B
3	Mechanical seal	SiC/SiC/EPDM	
4	Top diffuser	Stainless steel	AISI304 / AISI316 / SS904
5	Support diffuser	Stainless steel	AISI304 / AISI316 / SS904
6	Diffuser	Stainless steel	AISI304 / AISI316 / SS904
7	Inducer	Stainless steel	AISI304 / AISI316 / SS904
9	Base plate	Cast iron	ASTM25B
10	Bottom bearing	Turgsten carbide	
11	Impeller	Stainless steel	AISI304 / AISI316 / SS904
12	Shaft	Stainless steel	AISI304 / AISI316L / AISI431
13	Intermediate bearing	Turgsten carbide	
14	Cylinder	Stainless steel	AISI304 / AISI316 / SS904
15	Coupling	Carbon steel	
	Rubber parts	EPDM/FPM	
VF			
2	Pump head	Cast iron	ASTM25B
8	Inlet and outlet chamber	Cast iron	ASTM25B
VX, VN, VD			
2	Pump head	Stainless steel	AISI304 / AISI316 / SS2205
8	Inlet and outlet chamber	Stainless steel	AISI304 / AISI316 / SS2205

Sectional drawing VF, VX, VN 95,130,155

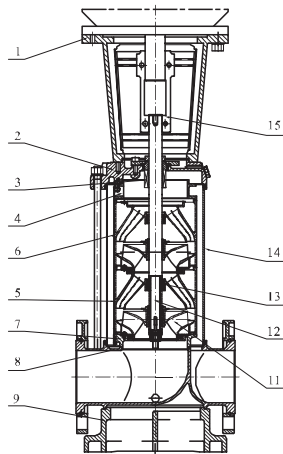


Material VF, VX, VN 95,130,155

N°	Name	Material	AISI / ASTM
1	Motor		
2	Bracket	Cast iron	ASTM25B
4	Mechanical seal	WC/Graphite/EPDM	
5	Top diffuser	Stainless steel	AISI304 / AISI316
6	Diffuser	Stainless steel	AISI304 / AISI316
7	Support diffuser	Stainless steel	AISI304 / AISI316
8	Inducer	Stainless steel	AISI304 / AISI316
10	Base plate	Cast iron	ASTM 65-45-12
12	Impeller	Stainless steel	AISI304 / AISI316
13	Shaft	Stainless steel	ASTM S32205
14	Bearing	Turgsten carbide	
15	Cylinder	Stainless steel	AISI304 / AISI316
16	Coupling	Carbon steel	
	Rubber parts	EPDM/FPM	
VF			
3	Pump head	Cast iron	ASTM 65-45-12
9	Inlet and outlet chamber	Cast iron	ASTM 65-45-12
VX, VN			
3	Pump head	Stainless steel	AISI304 / AISI316
9	Inlet and outlet chamber	Stainless steel	AISI304 / AISI316
11*	Thrust balancing device	WC/SiC	

*The thrust balancing device is only used for models with motor power of 75kW and above.

Sectional drawing
VF, VX, VN, VD 210



Material
VF, VX, VN, VD 210

N°	Name	Material	AISI /ASTM
1	Bracket	Cast iron	ASTM25B
3	Mechanical seal	SiC/SiC/EPDM	
4	Discharge	Stainless steel	AISI304 / AISI316 / SS904
5	Support diffuser	Stainless steel	AISI304 / AISI316 / SS904
6	Diffuser	Stainless steel	AISI304 / AISI316 / SS904
7	Inducer	Stainless steel	AISI304 / AISI316 / SS904
9	Base plate	Cast iron	ASTM 80-55-06
11	Impeller	Stainless steel	AISI304 / AISI316 / SS904
12	Shaft	Stainless steel	AISI304 / AISI316 / SS904
13	Bearing	Turgsten carbide	
14	Cylinder	Stainless steel	AISI304 / AISI316 / SS904
15	Coupling	Carbon steel	
	Rubber parts	EPDM/FPM	
VF			
2	Pump head	Cast iron	ASTM 80-55-06
8	Inlet and outlet chamber	Cast iron	ASTM 80-55-06
VX, VN, VD			
2	Pump head	Stainless steel	AISI304 / AISI316 / SS2205
8	Inlet and outlet chamber	Stainless steel	AISI304 / AISI316 / SS2205

公司简介

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

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

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

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

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

产品介绍

泵类别和主要特点介绍

VDROO 是由 HYDROO 全新设计开发的一款立式多级离心泵。它包括 VF, VX, VN 和 VD 泵以及对应的配装变频电机的系列泵型。

VDROO 系列的设计能够最大化满足各种安装要求，由 HYDROO 设计开发、经过原型测试、产业化，最终在 HYDROO 西班牙工厂完成生产。



主要技术优势

VDROO 系列泵适用于多种领域，同时提供多种连接安装方式，提供最优的服务。

– 集装式机械密封

电机功率5.5kW及以上的水泵无需拆卸电机即可更换机械密封。

– 多种连接方式

提供腰形法兰、圆法兰、管螺纹、卡套接口等连接方式。

– 多种材质形式的泵

泵所有跟介质接触部分的材料可以选择304不锈钢(VX)，316不锈钢(VN)，混合铸铁和304不锈钢(VF)，也提供定制版双相不锈钢(VD)。

– 多种输送介质

通过使用恰当的零件材料，包括O形圈，机械密封等，可以输送多种介质。

– 多种泵规格

VDROO系列有13种泵规格以满足客户所需的流量和压力要求，额定流量点从1m³/h到210m³/h。

– 产品质量

所有的泵都必须经过测试，合格后才能交付给客户。

– 高效的性能

VDROO系列泵的性能都经过优化，符合欧盟委员会条例第547/2012号，产品最小效率指数（MEI）高于欧盟委员会规定的指标要求。

VXE, VNE研发背景

在例如市政供水、工业、灌溉、水处理等所有的应用领域，对智能泵系统的需求不断增长。

智能化泵有很多优点：更低的泵生命周期成本、节能环保、更长的泵和系统使用寿命。

因此HYDROO研发了新一代的智能化变频泵VXE/VNE，一个可以智能控制的高效智能泵。

最小效率指数(MEI)

型号	MEI
VDROO1-3	≥0.70
VDROO3-3	≥0.70
VDROO5-3	≥0.70
VDROO10-3	≥0.70
VDROO15-3	≥0.70
VDROO20-3	≥0.70
VDROO32-3	≥0.70
VDROO45-3	≥0.70
VDROO65-3	≥0.60
VDROO95-3	≥0.70
VDROO130-3	≥0.70
VDROO155-3	≥0.70



高效

水泵性能与电机和水力部件的精细设计息息相关，HYDROO用顶级的技术资源做到了目前市场上领先，极佳的水力效率结合IE3超高效电机，打造了我们独一无二的领先的泵理念：强劲、可靠、灵活、智能、多用途并可根据用户需求进行各种调整。



创新

材质的选择、零部件的生产工艺和过程，以及各种细节上的实用设计给我们的产品创造了更多的附加值。产品的灵活性，丰富的配置可选项以及定制化的服务将为我们的客户创造更多的价值。



品质

质量保障是我们增值服务的核心要素。HYDROO把水泵质量保障，精细的制造工艺过程和高标准的产品质量检验植入到我们的核心服务中。此外，HYDROO也提供各种安装条件下的变频器使用方案，以使水泵运行达到最佳效能。世界在持续发展，我们希望用我们的热情和信念为社会的可持续发展做出贡献。



环保

HYDROO对环境的承诺存之于心，见之于行，所有过程都尽量把对环境的影响降到最低。同时，在产品设计的各个环节中我们也考虑到客户的各种需求，从而达到产品最佳的使用效果。



合作

HYDROO始终对客户负责。我们的工厂就是客户的工厂，我们承诺让客户体验到HYDROO最好的企业文化，从工业工程设计到泵产品管理维护，HYDROO认为为客户服务没有边界。这个愿景将会使我们跟所有的水泵合作伙伴紧密相连，为客户提供最佳的泵产品解决方案。

VF **VX**
VN **VD**
VXE **VNE**

立式多级离心泵

应用范围

冷却水系统
市政供水及增压
建筑楼宇供水
灌溉
通用工业服务
清洗系统
锅炉给水及冷凝系统
水处理

产品描述

立式多级离心泵，泵的进出口在同一轴线上。全封闭，风冷，绝缘等级F，IP 55标准电机。单相电机功率最大到2.2 kW。

WRAS / ACS 认证。

VF 系列：水力部件为304不锈钢，水泵进出水段和泵头为铸铁。

VX/VN 系列：所有过流部件均为304不锈钢或316不锈钢。

VD 系列：过流部件均为超级奥氏体不锈钢904和双相不锈钢2205。

VXE/VNE 系列：配备一体式永磁同步电机，所有过流部件均为304不锈钢或316不锈钢

性能范围

流量：最大240 m³/h

扬程：最高323 m

温度：最高120 °C

转速：2900 rpm 或 2950 rpm

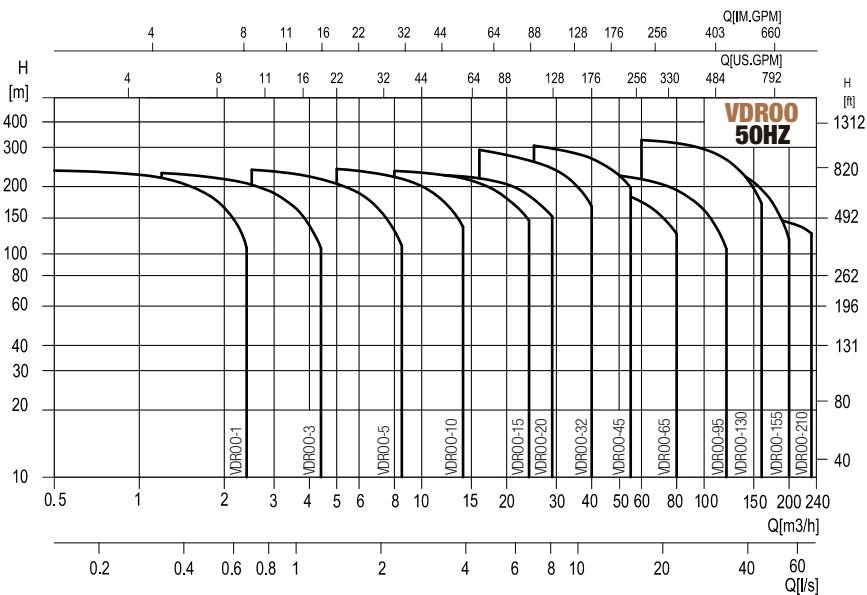
功率：最大110 kW

标准材质

所有与输送介质接触的零件标准材质为304不锈钢，316不锈钢根据客户需求可选。此外，法兰材质也可根据客户需求定制不锈钢。



性能范围



泵

VDROO 是一款非自吸，立式多级离心泵，泵配有标准电机，电机轴与泵轴通过联轴器直接连接。水泵流道腔组件和耐压筒位于进出水段和泵头之间，通过拉杆紧固。泵的进出口位于基座上并处于同一轴线，水泵可以配置智能保护器以有效防止水泵干转和电机过载。

电机 (VF/VX/VN/VD)

全封闭，风冷，2极，IE3能效，标准电机。
防护等级： IP55
绝缘等级： F
工作频率： 50Hz
工作电压： 1x220-230/240V
3x200-220/346-380V
3x220-240/380-415V
3x380-415V

永磁同步电机 (VXE/VNE)

永磁同步一体机，风冷
防护等级： IP55
绝缘等级： F
工作频率： 0~50Hz
工作电压： 3x380-440V

应用

VDROO 是一款多功能多用途泵。

可以用来输送从自来水到工业流体等在不同流量、温度和压力条件下的各种介质，VF适用于非腐蚀性介质，VX，VN适用于轻度腐蚀性介质。

-供水：水厂过滤与输送、水厂分区送水、主管增压、高层建筑供水等。

-工业增压：流程水系统、清洗系统、高压冲洗系统、消防系统等。

-工业液体输送：冷却、锅炉给水和冷凝系统、机床配置、酸和碱等。

- 暖通：空调系统等。

- 水处理：超滤系统、反渗透系统、蒸馏系统、分离器、游泳池等。

- 灌溉：农场灌溉、喷灌系统、滴灌系统等。

运行条件

稀薄、清洁、不含固体颗粒和纤维的非易燃易爆或物理化学性质类似于水的液体。

-介质温度： -15°C 到 +120°C

-环境温度：最高 +40°C (VF/VX/VN/VD)
最高 +50°C (VXE/VNE)

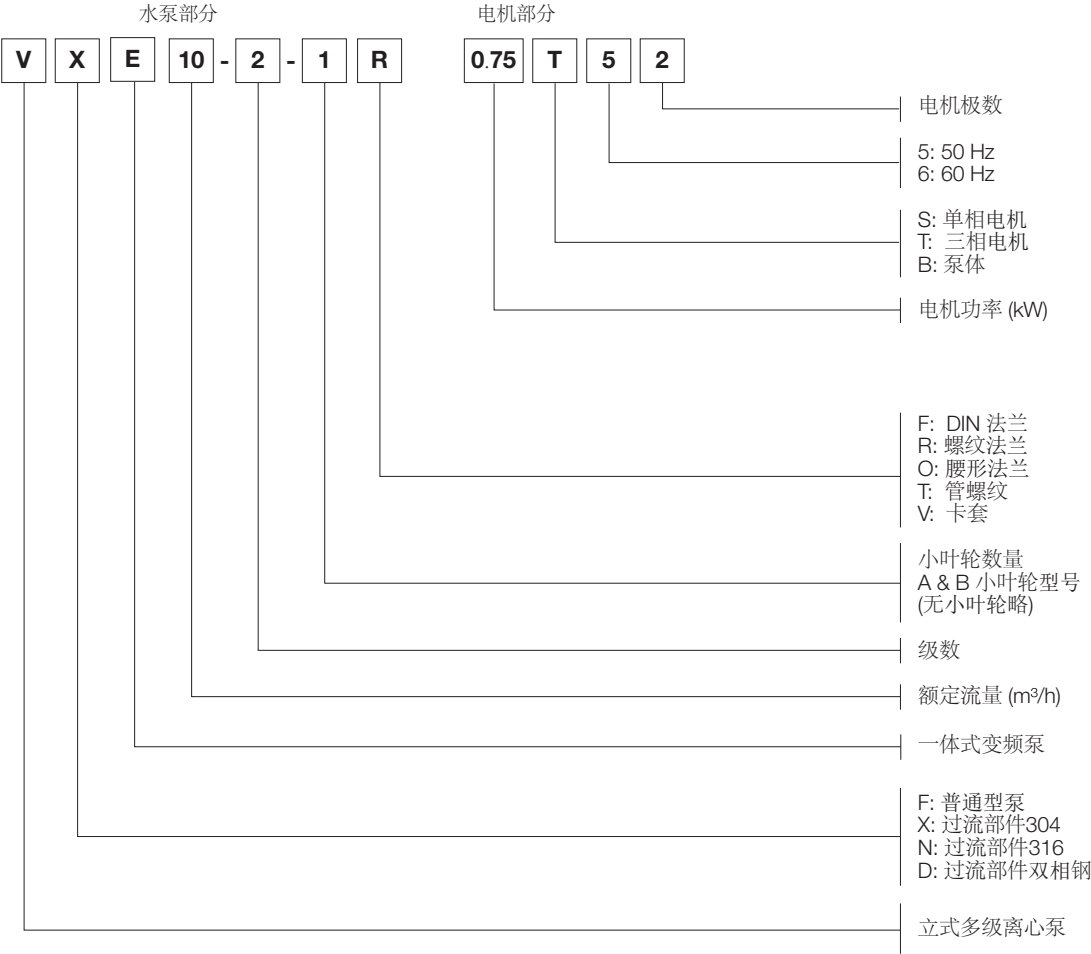
-海拔： 最高 1000m

产品范围

范围	VDROO 1	3	5	10	15	20	32	45	65	95	130	155	210
额定流量 [m³/h]	1	3	5	10	15	20	32	45	65	95	130	155	210
额定流量 [l/s]	0.28	0.83	1.39	2.78	4.17	5.56	8.9	12.5	18.1	26.39	36.11	43.06	58.3
流量范围 [m³/h]	0.5~2.4	1.2~4.4	2.5~8.5	5~14	8~24	10~29	16~40	25~55	30~80	45~120	60~160	75~200	100~240
最大压力 [bar]	24	23	24	24	24	23	29	30	22	24	33	28	16
电机功率 [kW]	0.37~2.2	0.37~3	0.37~5.5	0.75~11	1.1~15	1.1~18.5	1.5~30	3~45	4~45	5.5~55	11~110	11~110	18.5~110
温度范围 [°C]	-15 ~ +120												
最高效率 [%]	48	58	70	72	73	73	73	75	76	81.5	83	82	79
MEI	≥ 0.70								≥ 0.60	≥ 0.70			
VF	•	•	•	•	•	•	•	•	•	•	•	•	•
VX, VN	•	•	•	•	•	•	•	•	•	•	•	•	•
VD							•	•	•	•	•	•	•
VXE, VNE		•	•	•	•	•	•	•	•	•			
VF, VX, VN, VD DIN 法兰	DN25	DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN150	DN150	DN150
VX, VN 卡套接口	DN32	DN32	DN32	DN50	DN50	DN50							
VX, VN 管螺纹	R1¼	R1¼	R1¼	R2	R2	R2							
VF, VX, VN 腰形法兰	G1	G1	G1¼	G1½									
VXE, VNE DIN 法兰		DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100				

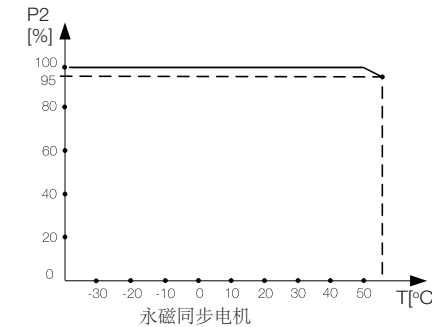
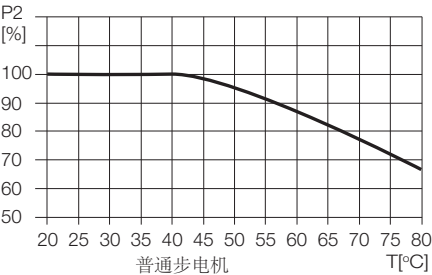
型号说明

VF, VX, VN, VXE, VNE 1, 3, 5, 10, 15, 20
VF, VX, VN, VD, VXE, VNE 32, 45, 65, 95, 130, 155, 210



最大环境温度

当水泵运行的环境温度超过40°C，由于环境温度过高或空气密度低导致电机制冷效果差，电机输出功率也会相应的降低，电机存在过热或过载风险。在这种情况下，需要适当加大电机功率。



最大工作压力

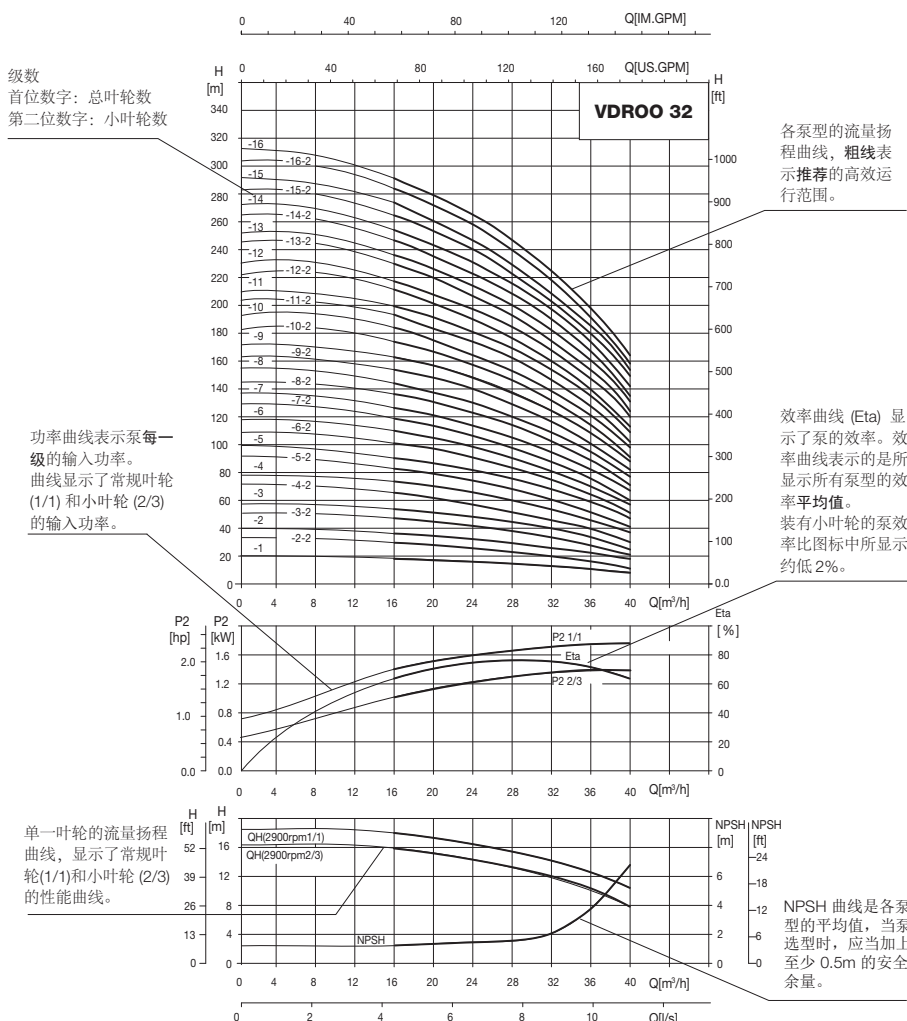
型号	最大允许运行压力 (bar)
VF, VX, VN, VXE, VNE 1, 3, 5, 10, 15, 20 DIN法兰、螺纹法兰、卡套、管螺纹	25
VF, VX, VN 1,3,5,10 腰形法兰	16
VF 32-1-1 ~ 32-8	16
VF 32-9-2 ~ 32-16	30
VX, VN, VD, VXE, VNE 32	30
VF 45-1-1 ~ 45-6-2	16
VF 45-6 ~ 45-9	25
VF 45-10-2 ~ 45-13-2	30
VX, VN, VD, VXE, VNE 45-1-1 ~ 45-9	25
VX, VN, VD, VXE, VNE 45-10-2 ~ 45-13-2	30
VF 65-1-1 ~ 65-5-2	16
VF 65-5-1 ~ 65-8-1	25
VX, VN, VD, VXE, VNE 65	25
VF, VX, VN, VXE, VNE 95	25
VF, VX, VN 125-1 ~ 125-5	25
VX, VN 125-6 ~ 125-10	40
VF, VX, VN 155-1-1 ~ 155-4-1	25
VX, VN 155-5-2 ~ 155-8-2	40
VF, VX, VN, VD 210	20

性能曲线

下述原则适用于后页所示的所有性能曲线：

1. 所有曲线适用于50Hz，额定转速为2900rpm或2950rpm。
2. 曲线容差符合ISO9906 Annex A.
3. 测试用水为 20°C，无空气清水，运动粘度1mm²/s.
4. 为防止因流量过小引起过热或流量过大引起过载，推荐在曲线粗线范围内使用水泵。

性能曲线读取



最小进口压力 NPSH

如果水泵内压力低于输送介质的汽化压力，就可能发生汽蚀，为避免汽蚀，必须保证泵进口侧有一最小压力，最大吸程可按下式计算：

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

P_b = 大气压力 [bar]
(大气压力可设定为 1 bar)

在闭式系统中， P_b 为系统压力 [bar]

$NPSH$ = 净正吸头 [m]
(可从 $NPSH$ 曲线上泵可能的最大流量处读取)

H_f = 入口的管路损失 [m]
(在泵将输送的最大流量下)

H_v = 汽化压力 [m]
(汽化压力由液体温度决定，可从右侧附图中汽化压力尺中读取)

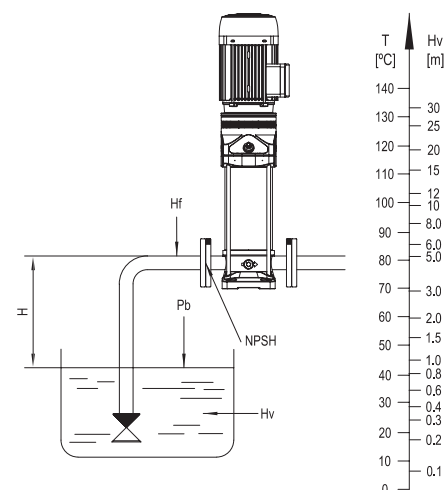
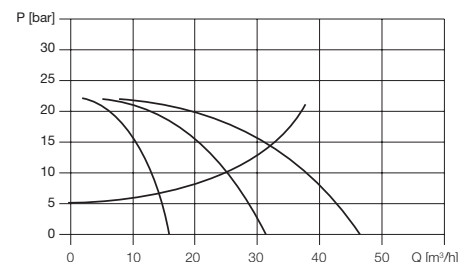
H_s = 安全余量 = 最小 0.5m 水头

如计算所得 H 为正值，泵可在最大吸程为 H 的情况下运行。

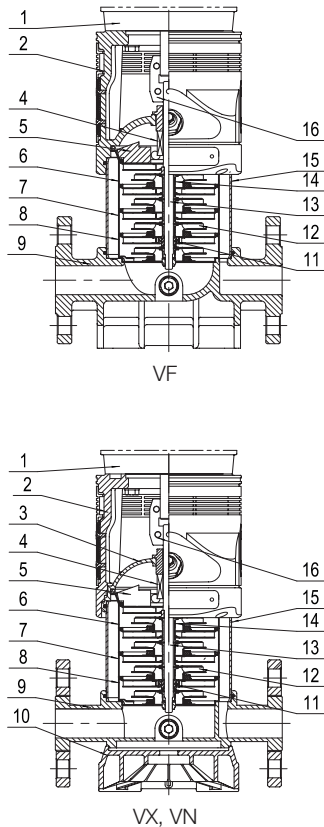
如计算所得 H 为负值，必须有一最小进口压力为 H 的水头。

多台泵并联运行要比只有一台大流量泵更经济，同时也提高了泵站运行调度的灵活性和供水的可靠性。

并联尤其适用于需要工作在不同流量点下的变流量系统，可以通过开关水泵的台数来调节泵站的流量和扬程，以适应用户的用水变化，同时降低了当泵出现故障时对整体供水的影响。



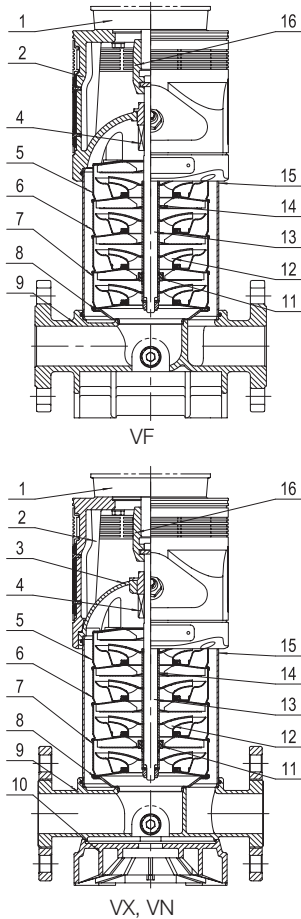
结构图
VF, VX, VN, VXE, VNE 1, 3, 5



材质
VF, VX, VN, VXE, VNE 1, 3, 5

序号	零件名称	零件材质	AISI /ASTM
1	电机		
2	泵头	铸铁	ASTM25B
4	机械密封	SiC/SiC/EPDM	
5	出水导叶	不锈钢	AISI304 / AISI316
6	导叶	不锈钢	AISI304 / AISI316
7	支撑导叶	不锈钢	AISI304 / AISI316
8	进水导叶	不锈钢	AISI304 / AISI316
11	滑动轴承	碳化钨	
12	叶轮	不锈钢	AISI304 / AISI316
13	泵轴	不锈钢	AISI304 / AISI316
14	叶轮隔套	不锈钢	AISI304 / AISI316
15	耐压筒	不锈钢	AISI304 / AISI316
16	联轴器	碳钢	
	橡胶件	EPDM/FPM	
VX, VN, VXE, VNE			
3	泵头衬里	不锈钢	AISI304 / AISI316
9	进出水段	不锈钢	AISI304 / AISI316
10	底座	铸合金	ADC12
VF			
9	进出水段	铸铁	ASTM25B

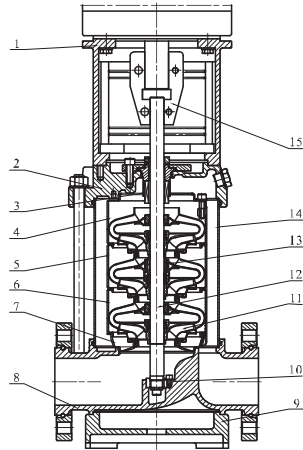
结构图
VF, VX, VN, VXE, VNE 10, 15, 20



材质
VF, VX, VN, VXE, VNE 10, 15, 20

序号	零件名称	零件材质	AISI /ASTM
1	电机		
2	泵头	铸铁	ASTM25B
4	机械密封	SiC/SiC/EPDM	
5	出水导叶	不锈钢	AISI304 / AISI316
6	导叶	不锈钢	AISI304 / AISI316
7	支撑导叶	不锈钢	AISI304 / AISI316
8	进水导叶	不锈钢	AISI304 / AISI316
11	滑动轴承	碳化钨	
12	叶轮	不锈钢	AISI304 / AISI316
13	泵轴	不锈钢	AISI304 / AISI316
14	叶轮隔套	不锈钢	AISI304 / AISI316
15	耐压筒	不锈钢	AISI304 / AISI316
16	联轴器	碳钢	
	橡胶件	EPDM/FPM	
VX , VN, VXE, VNE			
3	泵头衬里	不锈钢	AISI304 / AISI316
9	进出水段	不锈钢	AISI304 / AISI316
10	底座	铸合金	ADC12
VF			
9	进出水段	铸铁	ASTM25B

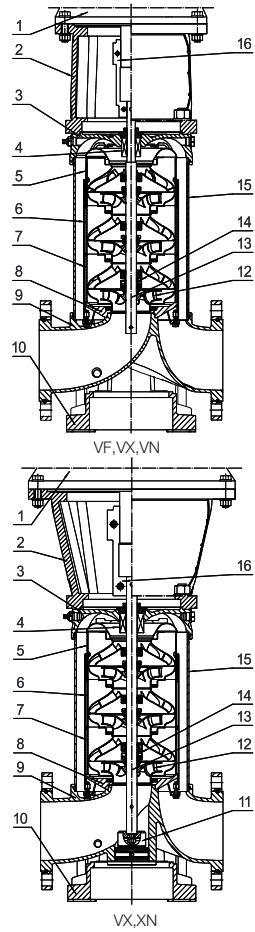
结构图
VF,VX,VN,VD,VXE,VNE 32,45,65



材质
VF, VX, VN, VD, VXE, VNE 32, 45, 65

序号	零件名称	零件材质	AISI /ASTM
1	电机支架	铸铁	ASTM25B
3	机械密封	SiC/SiC/EPDM	
4	出水导叶	不锈钢	AISI304 / AISI316 / SS904
5	支撑导叶	不锈钢	AISI304 / AISI316 / SS904
6	导叶	不锈钢	AISI304 / AISI316 / SS904
7	进水导叶	不锈钢	AISI304 / AISI316 / SS904
9	底座	铸铁	ASTM25B
10	下轴承	碳化钨	
11	叶轮	不锈钢	AISI304 / AISI316 / SS904
12	泵轴	不锈钢	AISI304 / AISI316 / AISI431
13	滑动轴承	碳化钨	
14	耐压筒	不锈钢	AISI304 / AISI316 / SS904
15	联轴器	碳钢	
	橡胶件	EPDM/FPM	
VF			
2	泵头	铸铁	ASTM25B
8	进出水段	铸铁	ASTM25B
VX, VN, VD, VXE, VNE			
2	泵头	不锈钢	AISI304 / AISI316 / SS2205
8	进出水段	不锈钢	AISI304 / AISI316 / SS2205

结构图
VF, VX, VN 95, 130, 155

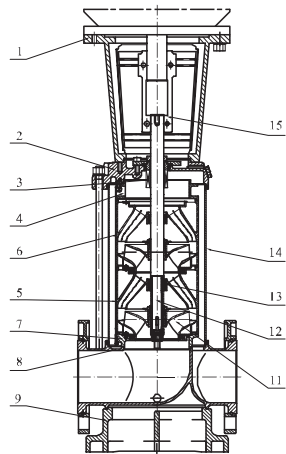


材质
VF, VX, VN 95, 130, 155

序号	零件名称	零件材质	AISI /ASTM
1	电机		
2	支架	铸铁	ASTM 25B
4	机械密封	WC/石墨/EPDM	
5	出水导叶	不锈钢	AISI304 / AISI316
6	导叶	不锈钢	AISI304 / AISI316
7	支撑导叶	不锈钢	AISI304 / AISI316
8	进水导叶	不锈钢	AISI304 / AISI316
10	底座	铸铁	ASTM 65-45-12
12	叶轮	不锈钢	AISI304 / AISI316
13	泵轴	不锈钢	ASTM S32205
14	滑动轴承	碳化钨	
15	耐压筒	不锈钢	AISI304 / AISI316
16	联轴器	碳钢	
	橡胶件	EPDM/FPM	
VF			
3	泵头	铸铁	ASTM 65-45-12
9	进出水段	铸铁	ASTM 65-45-12
VX, VN			
3	泵头	不锈钢	AISI304 / AISI316
9	进出水段	不锈钢	AISI304 / AISI316
11*	推力平衡装置	碳化钨/碳化硅	

*推力平衡装置仅用于电机功率在75kW及以上的型号。

结构图
VF, VX, VN, VD 210



材质
VF, VX, VN, VD 210

序号	零件名称	零件材质	AISI /ASTM
1	电机支架	铸铁	ASTM25B
3	机械密封	SiC/SiC/EPDM	
4	出水体	不锈钢	AISI304 / AISI316 / SS904
5	支撑导叶	不锈钢	AISI304 / AISI316 / SS904
6	导叶	不锈钢	AISI304 / AISI316 / SS904
7	进水导叶	不锈钢	AISI304 / AISI316 / SS904
9	底座	铸铁	ASTM 80-55-06
11	叶轮	不锈钢	AISI304 / AISI316 / SS904
12	泵轴	不锈钢	AISI304 / AISI316 / AISI431
13	滑动轴承	碳化钨	
14	耐压筒	不锈钢	AISI304 / AISI316 / SS904
15	联轴器	碳钢	
	橡胶件	EPDM/FPM	
VF			
2	泵头	铸铁	ASTM 80-55-06
8	进出水段	铸铁	ASTM 80-55-06
VX, VN, VD			
2	泵头	不锈钢	AISI304 / AISI316 / SS2205
8	进出水段	不锈钢	AISI304 / AISI316 / SS2205

VXE/VNE

Introduction of features and functions

特点和功能介绍

Features

VXE and VNE is the new generation production designed by HYDROO, an intelligent pump with PMSM, it inherit all the technical benefits, and also more new advantages:

1. Function integration

Frequency converter and PLC integrated with the motor, significantly reduced the volume and cost of the control cabinet.

2. Compactness

Redesigned motor, smaller and lighter, the space and weight are about 40% lower than the asynchronous motor.

3. Reliable

Aluminium housing, IP55, shared motor fan, 380-440V wide voltage design, -25°C ~50°C ambient temperature.

4. Saving

Under the intelligent control, the speed of every VXE/VNE pump varies so as to maintain a constant flow or constant pressure, or a differential pressure. By doing so, at any time, the pump will always work at the high efficiency zone, the pump only receives the energy required. This results in considerable savings, especially for systems that have varying loads throughout the day.

Functions:

With the sensors installed on the pump or pipes, the pumping system can offer 5 control modes:

1. Constant pressure
2. Constant temperature
3. Constant pressure difference
4. Constant temperature difference
5. Manual mode



产品特点

VXE 和 VNE 是 HYDROO 设计的新一代产品，配有一体式永磁同步变频电机的智能泵，他完全继承了 VDROO 系列的全部优点，同时又拥有以下特点：

1. 功能集成

电机内部已经集成了变频器和 PLC 模块，相比普通水泵，能有效的缩小控制柜的尺寸空间，降低控制柜成本。

2. 轻小化

重新设计的电机，更小的尺寸，更轻的重量，相比普通异步电机，永磁同步电机的尺寸空间和重量能有效减小 40% 以上。

3. 可靠

机壳全铸铝结构，屏蔽好，IP55，共用电机同轴风扇，380-440V 宽电压设计，-25°C ~50°C 更宽工作温度范围。

4. 节能

在智能控制下，每一台 VXE/VNE 泵的转速都会根据实际的要求调节：恒流、恒压或恒压差等。通过这种方式，水泵在任何时候都工作在高效区，同时泵也只会消耗要求工况的电能。这样能有效的节能，尤其是对于每天负载都在不断变化的供水系统。

功能：

通过安装在水泵或管路系统上的传感器，可以实现水泵系统的 5 种控制模式：

1. 恒压模式
2. 恒温模式
3. 恒压差模式
4. 恒温差模式
5. 手动模式

VXE/VNE

Variable frequency pump

变频泵

Construction:

The main difference between VX, VN and VXE, VNE is the motor.

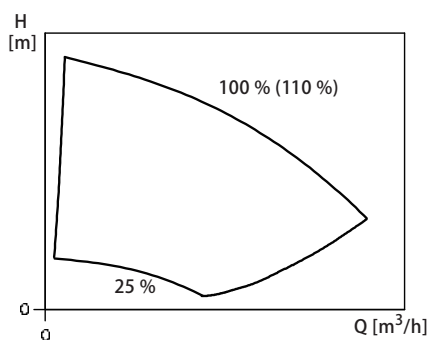
VXE and VNE uses permanent magnet synchronous motor.

Application:

VXE and VNE pumps have integrated speed control for automatic adaptation of performance to current conditions.

The energy consumption of the pump is thus kept at a minimum.

The pumps can operate at any duty point within the range between 25 and 100 % speed. In a part of the duty range, the pumps with MGE motor can operate at speeds up to 110 %.



The 100 % curve corresponds to the curve of a pump with a mains-operated motor.

Depending on the application, the pumps offer energy savings, increased comfort or improved processing .



结构

VX, VN 和 VXE, VNE 泵的主要区别在于电机。

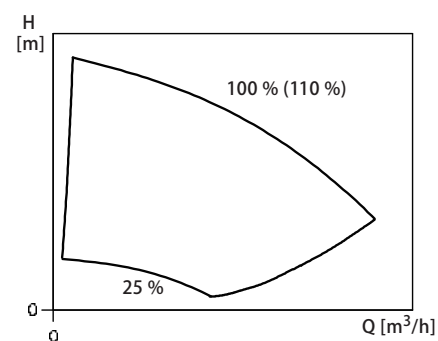
VXE, VNE 泵配备的是永磁同步电机。

应用

VXE, VNE 系列泵配备速度控制功能，可根据流量条件对性能进行自动调节。

这样泵的能耗就被降到最低。

泵可以在 25 到 100 % 速度之间的任意工况点下运行。在部分工作范围内，泵的运行速度最高可达到 110 % 。

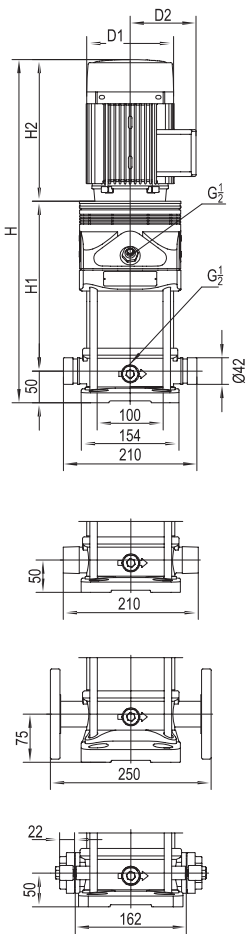


100 % 曲线对应的是带普通异步交流电机的泵的曲线。

根据具体应用，泵可以实现节能、更好的使用体验或更佳的使用工况等效果。

VDR001

Installation sketch 安装尺寸图

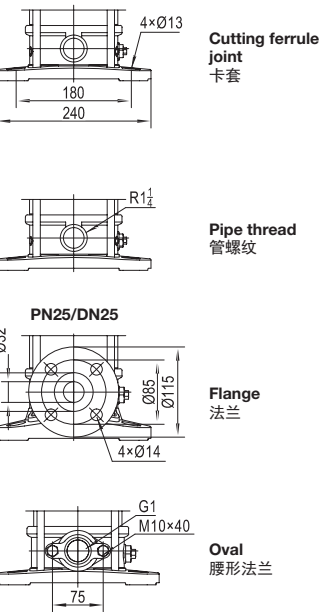


Models from 27 to 40 stages are not available in oval flange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

27级~40级无腰形法兰连接。

单相电机/隔爆电机的外形尺寸请咨询本公司。



Size and weight 尺寸和重量

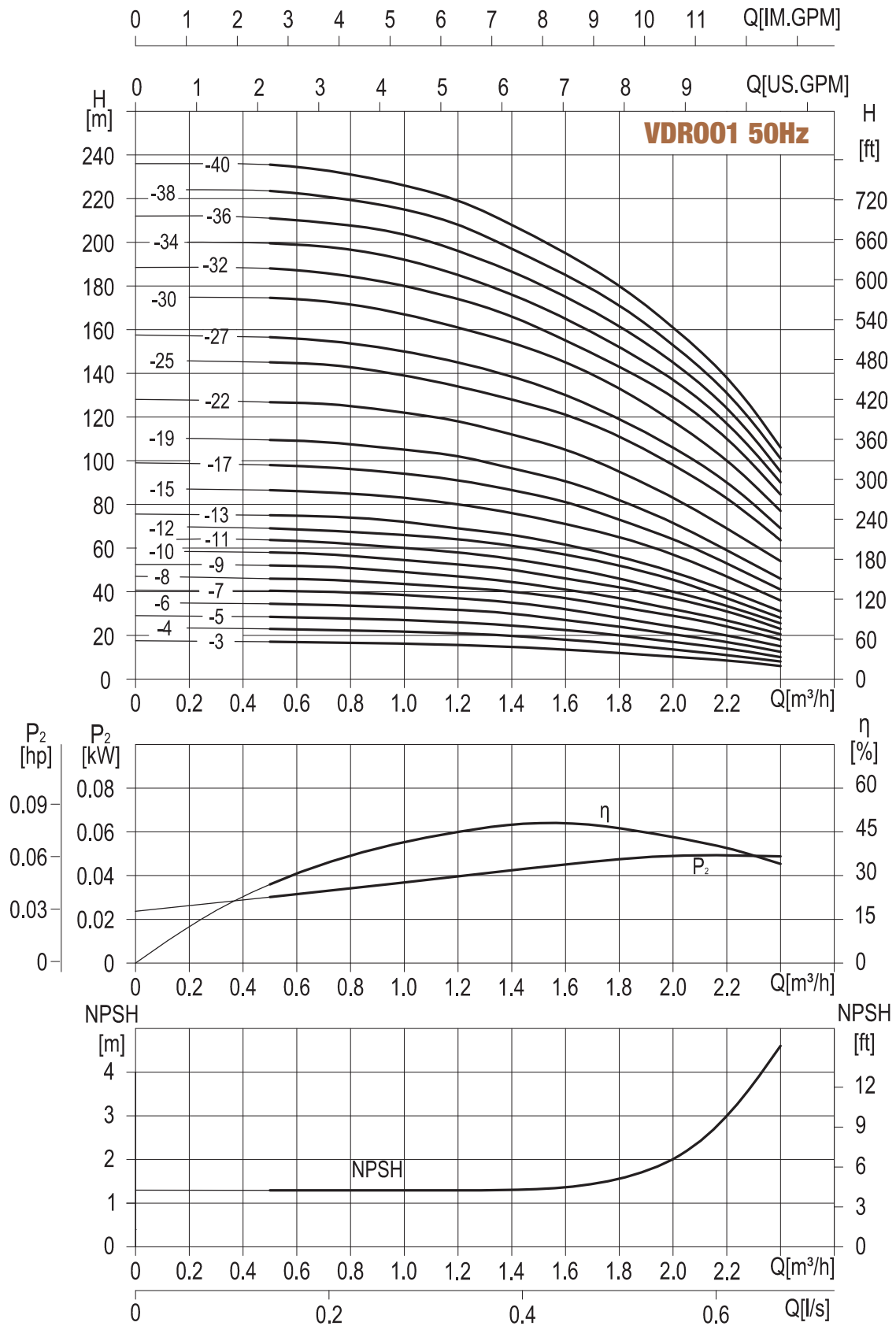
Model 型号	Dimension [mm] 尺寸 [mm]					Weight (kg) 净重(kg)	
	H1	H2	H	D1	D2	VF	VX, VN
VF/VX/VN1-3	207	220	502/477	138	103	23	19
VF/VX/VN1-4	227	220	522/497	138	103	24	20
VF/VX/VN1-5	247	220	542/517	138	103	24	20
VF/VX/VN1-6	267	220	562/537	138	103	25	21
VF/VX/VN1-7	287	220	582/557	138	103	25	21
VF/VX/VN1-8	307	220	602/577	138	103	27	23
VF/VX/VN1-9	327	220	622/597	138	103	27	23
VF/VX/VN1-10	347	220	642/617	138	103	28	24
VF/VX/VN1-11	367	220	662/637	138	103	28	24
VF/VX/VN1-12	397	248	720/695	148	108	31	27
VF/VX/VN1-13	417	248	740/715	148	108	31	27
VF/VX/VN1-15	457	248	780/755	148	108	32	28
VF/VX/VN1-17	497	248	820/795	148	108	35	31
VF/VX/VN1-19	537	248	860/835	148	108	36	32
VF/VX/VN1-22	597	248	920/895	148	108	37	33
VF/VX/VN1-25	667	292	1034/1009	171	118.5	44	40
VF/VX/VN1-27	707	292	1074/1049	171	118.5	45	41
VF/VX/VN1-30	767	292	1134/1109	171	118.5	46	42
VF/VX/VN1-32	807	292	1174/1149	171	118.5	49	45
VF/VX/VN1-34	847	292	1214/1189	171	118.5	50	46
VF/VX/VN1-36	887	292	1254/1229	171	118.5	51	47
VF/VX/VN1-38	927	292	1294/1269	171	118.5	51	47
VF/VX/VN1-40	967	292	1334/1309	171	118.5	52	48

配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	0	0.5	0.7	1	1.2	1.4	1.6	1.8	2	2.2	2.4
	(kW)	(hp)												
VF/VX/VN1-3	0.37	0.5	H (m)	17.5	17	16.8	16	15.6	14.8	13.5	12	10	8.5	6
VF/VX/VN1-4	0.37	0.5		23.5	23	22.5	21.5	21	19.8	18	16	13.5	11	8
VF/VX/VN1-5	0.37	0.5		29	28.5	28	27	26	24.5	22.5	20	17	14	10
VF/VX/VN1-6	0.37	0.5		35	34.5	34	32.5	31.5	30	27	24	20.5	17	12.5
VF/VX/VN1-7	0.37	0.5		41	40.5	40	39	37	35	32	28	24	20	15
VF/VX/VN1-8	0.55	0.75		47	46	45.5	43.5	42	40	37	33	29	24.5	18
VF/VX/VN1-9	0.55	0.75		52.5	52	51.5	49	47	44.5	41	37	32	27	20.5
VF/VX/VN1-10	0.55	0.75		58.5	58	57	55	52.5	50	46	42	37	31	23
VF/VX/VN1-11	0.55	0.75		64	63.5	63	61	58.5	55	51	46	40	33.5	25.5
VF/VX/VN1-12	0.75	1		70	69	68.5	67	64.5	61	57	52	45.5	37	28
VF/VX/VN1-13	0.75	1		75.5	75	74.5	73	70	66.5	61.5	56	49	40.5	31
VF/VX/VN1-15	0.75	1		87.5	86.5	85.5	84	81	76.5	71	65	57	47	36
VF/VX/VN1-17	1.1	1.5		99	98	97	95	91.5	86.5	81	73	64	53	41
VF/VX/VN1-19	1.1	1.5		110	109	108	106	103	98	91	82	72	59	46
VF/VX/VN1-22	1.1	1.5		128	127	126	122	118	112	105	95	83	69	54
VF/VX/VN1-25	1.5	2		146	145	144	139	134	128	121	111	98	83	63
VF/VX/VN1-27	1.5	2		158	157	155	150	145	138	130	119	106	90	69
VF/VX/VN1-30	1.5	2		175	174	172	167	161	154	145	133	118	100	77
VF/VX/VN1-32	2.2	3		189	188	186	180	174	166	155	143	129	110	85
VF/VX/VN1-34	2.2	3		200	199	198	192	185	176	165	152	137	117	90
VF/VX/VN1-36	2.2	3		212	211	209	203	196	186	175	161	145	124	95
VF/VX/VN1-38	2.2	3		225	224	221	215	208	197	185	171	153	131	101
VF/VX/VN1-40	2.2	3		237	236	233	226	219	208	195	180	161	138	106

Performance curve ISO9906 Annex A.
性能曲线 ISO9906 Annex A.



VDR003

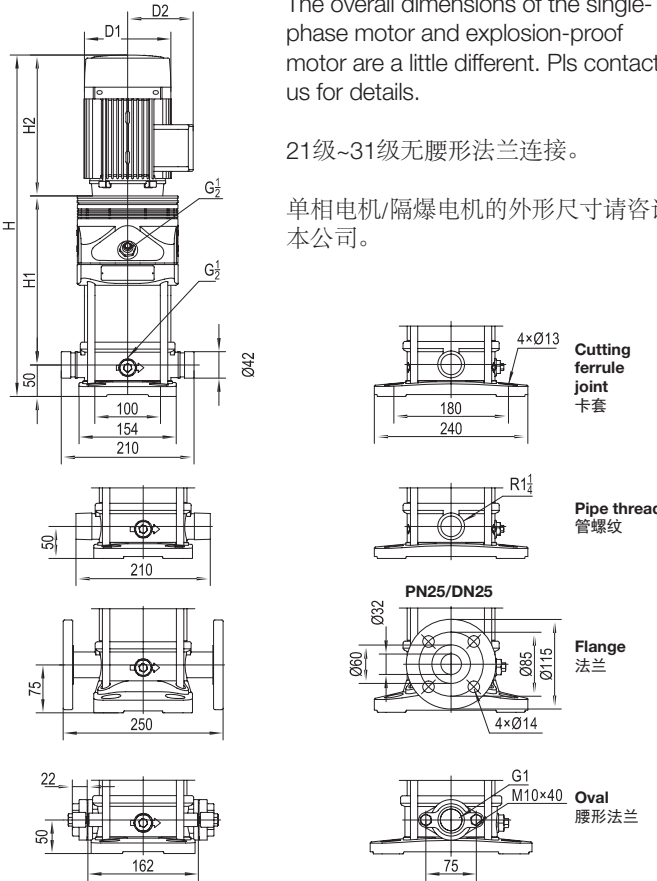
Installation sketch 安装尺寸图

Models from 21 to 31 stages are not available in oval flange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

21级~31级无腰形法兰连接。

单相电机/隔爆电机的外形尺寸请咨询本公司。



Size and weight 尺寸和重量

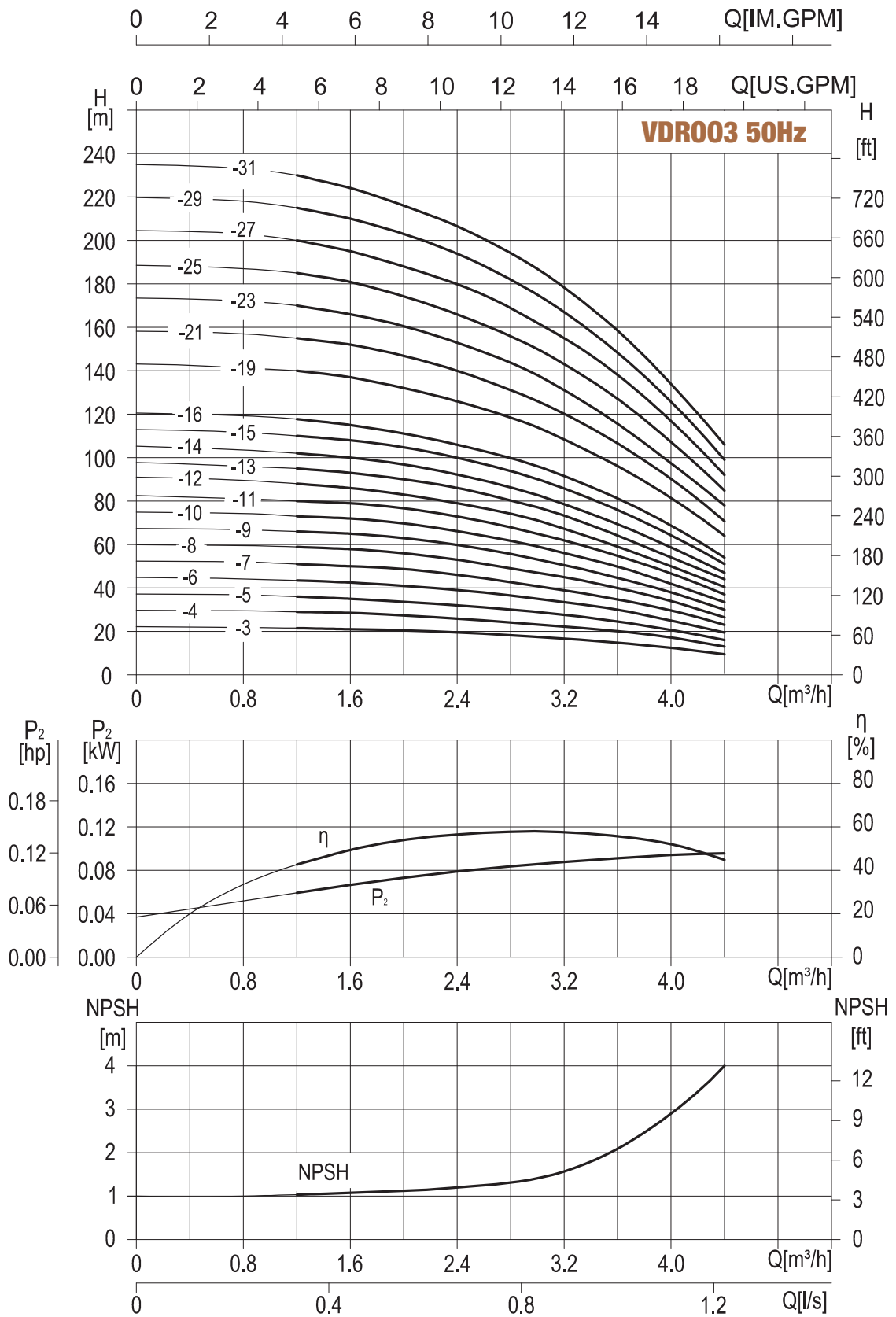
Model 型号	Dimension [mm] 尺寸 [mm]					Weight (kg) 净重(kg)	
	H1	H2	H	D1	D2	VF	VX, VN
VF/VX/VN3-3	207	220	502/477	138	103	24	20
VF/VX/VN3-4	227	220	522/497	138	103	25	21
VF/VX/VN3-5	247	220	542/517	138	103	26	22
VF/VX/VN3-6	267	220	562/537	138	103	27	23
VF/VX/VN3-7	297	248	620/595	148	108	30	26
VF/VX/VN3-8	317	248	640/615	148	108	30	26
VF/VX/VN3-9	337	248	660/635	148	108	32	28
VF/VX/VN3-10	357	248	680/655	148	108	33	29
VF/VX/VN3-11	377	248	700/675	148	108	33	29
VF/VX/VN3-12	397	248	720/695	148	108	34	30
VF/VX/VN3-13	427	292	794/769	171	118.5	39	35
VF/VX/VN3-14	447	292	814/789	171	118.5	40	36
VF/VX/VN3-15	467	292	834/809	171	118.5	40	36
VF/VX/VN3-16	487	292	854/829	171	118.5	41	37
VF/VX/VN3-19	547	292	914/889	171	118.5	44	40
VF/VX/VN3-21	587	292	954/929	171	118.5	45	41
VF/VX/VN3-23	627	292	994/969	171	118.5	46	42
VF/VX/VN3-24	647	292	1014/989	171	118.5	46	42
VF/VX/VN3-25	677	343	1095/1070	196	131	57	53
VF/VX/VN3-27	717	343	1135/1110	196	131	58	54
VF/VX/VN3-29	757	343	1175/1150	196	131	58	54
VF/VX/VN3-31	797	343	1215/1190	196	131	59	55

配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

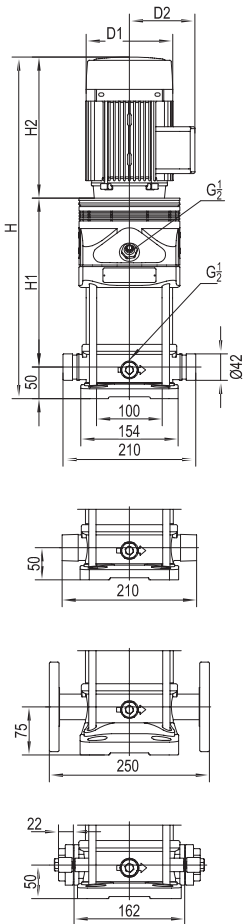
Model 型号	Motor 电机		Q (m³/h)	0	1.2	1.6	2	2.4	2.8	3	3.2	3.6	4	4.4
	(kW)	(hp)												
VF/VX/VN3-3	0.37	0.5	H(m)	22.2	21.5	21	20.5	19.5	18	17	16.5	15	12.5	9.5
VF/VX/VN3-4	0.37	0.5		29.7	29	28.5	27.5	26	24	23	22	20	17	13
VF/VX/VN3-5	0.55	0.75		37.2	36	35	33.5	32	30	29	28	25	21	16
VF/VX/VN3-6	0.55	0.75		45	43.5	42.5	41	39	36.5	35	33.5	30	25	19.5
VF/VX/VN3-7	0.75	1		52.5	51	50	49	46	43	41	39.5	35	30	23
VF/VX/VN3-8	0.75	1		60	58.5	58	56	53	49	47	45	40	34	26.5
VF/VX/VN3-9	1.1	1.5		67.5	66	65	63	60	56	53	51	45	38	30
VF/VX/VN3-10	1.1	1.5		75	73	72	70	66	61	59	56	50	42	33.5
VF/VX/VN3-11	1.1	1.5		82.5	80	79	77	73	68	65	62	55	47	37
VF/VX/VN3-12	1.1	1.5		90	88	86	83	79	74	71	67	59	50	40.5
VF/VX/VN3-13	1.5	2		98	95	93	90	86	80	77	73	64	54	44
VF/VX/VN3-14	1.5	2		105	102	101	98	92.5	86	83	78	69	58	47
VF/VX/VN3-15	1.5	2		113	110	108	105	100	94	90	86	76	64	51
VF/VX/VN3-16	1.5	2		120	118	116	112	107	100	96	92	81	69	54
VF/VX/VN3-19	2.2	3		143	140	137	132	126	119	114	108	96	82	64
VF/VX/VN3-21	2.2	3		158	155	152	147	140	131	126	120	106	90	71
VF/VX/VN3-23	2.2	3		173	170	166	161	153	144	138	131	115	97	78
VF/VX/VN3-24	2.2	3		181	177	173	168	160	150	144	137	120	101	81
VF/VX/VN3-25	3	4		188	185	181	175	166	156	150	142	125	105	85
VF/VX/VN3-27	3	4		204	200	195	188	180	169	162	155	138	117	92
VF/VX/VN3-29	3	4		220	215	210	203	194	182	175	167	148	126	99
VF/VX/VN3-31	3	4		235	230	224	216	207	194	187	178	159	134	106

Performance curve ISO9906 Annex A.
性能曲线 ISO9906 Annex A.



VDR005

Installation sketch 安装尺寸图

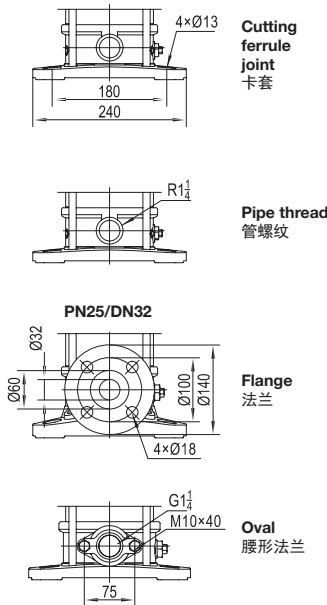


Models from 21 to 33 stages are not available in oval flange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

21级~33级无腰形法兰连接。

单相电机/隔爆电机的外形尺寸请咨询本公司。



Size and weight 尺寸和重量

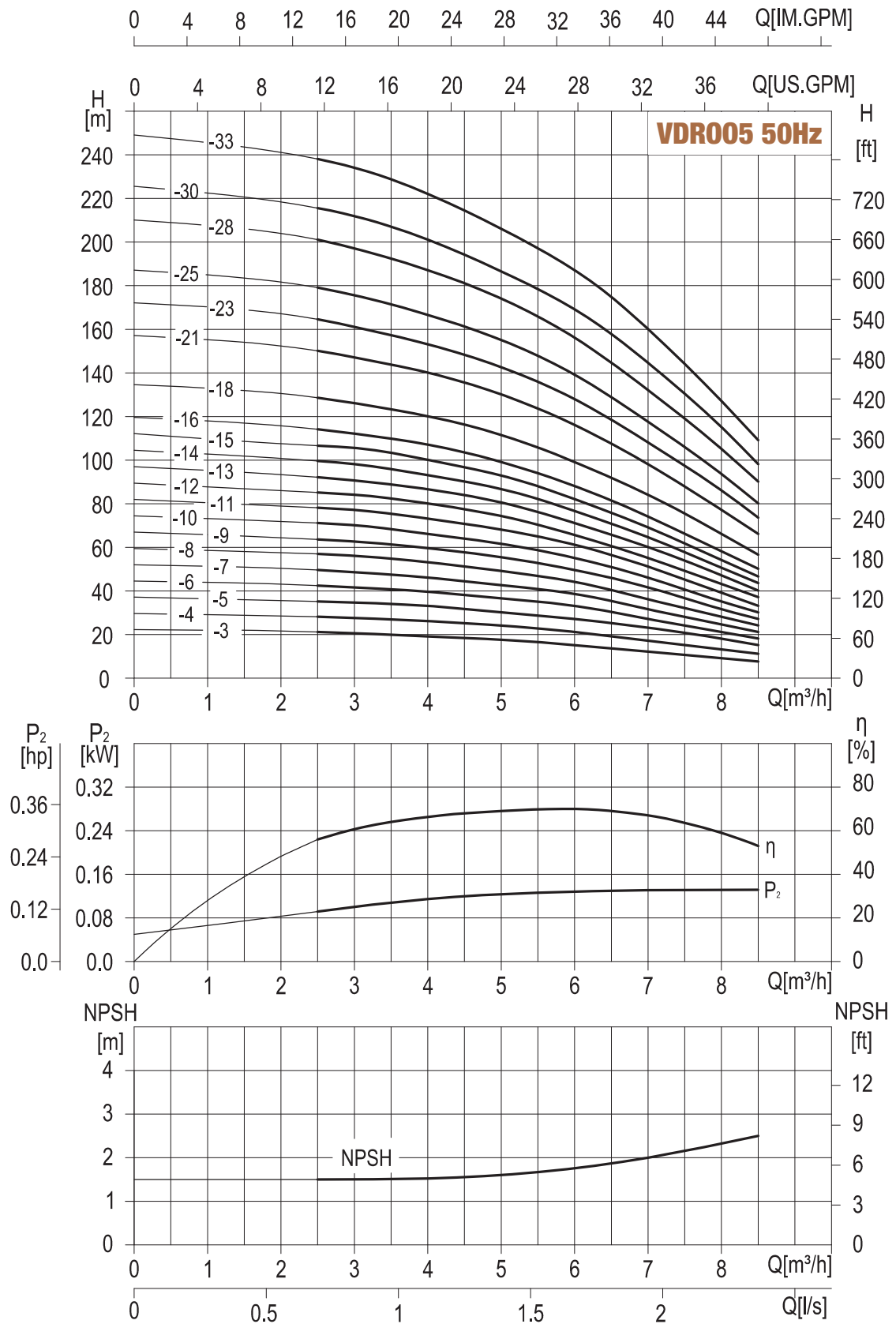
Model 型号	Dimension [mm] 尺寸 [mm]					Weight (kg) 净重(kg)	
	H1	H2	H	D1	D2	VF	VX, VN
VF/VX/VN5-3	228	220	523/498	138	103	26	21
VF/VX/VN5-4	255	220	550/525	138	103	27	22
VF/VX/VN5-5	292	248	615/590	148	108	30	25
VF/VX/VN5-6	319	248	642/617	148	108	32	27
VF/VX/VN5-7	346	248	669/644	148	108	32	27
VF/VX/VN5-8	373	248	696/671	148	108	33	28
VF/VX/VN5-9	410	292	777/752	171	118.5	38	33
VF/VX/VN5-10	437	292	804/779	171	118.5	39	34
VF/VX/VN5-11	464	292	831/806	171	118.5	39	34
VF/VX/VN5-12	491	292	858/833	171	118.5	42	37
VF/VX/VN5-13	518	292	885/860	171	118.5	42	37
VF/VX/VN5-14	545	292	912/887	171	118.5	43	38
VF/VX/VN5-15	572	292	939/914	171	118.5	43	38
VF/VX/VN5-16	599	292	966/941	171	118.5	44	39
VF/VX/VN5-18	663	343	1081/1056	196	131	55	50
VF/VX/VN5-21	744	343	1162/1137	196	131	57	52
VF/VX/VN5-23	798	348	1221/1196	215	150	65	60
VF/VX/VN5-25	852	348	1275/1250	215	150	66	61
VF/VX/VN5-28	933	348	1356/1331	215	150	67	62
VF/VX/VN5-30	1062	391	1528/1503	257	167	88	83
VF/VX/VN5-33	1143	391	1609/1584	257	167	89	84

配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

Model 型号	Motor 电机 (kW)		Q (m³/h)	0	2.5	3	4	5	6	7	8	8.5
	(kW)	(hp)										
VF/VX/VN5-3	0.55	0.75	H(m)	22.1	21	20.5	19	17.5	15	12	9	7.5
VF/VX/VN5-4	0.55	0.75		29.5	28	27.5	26	24	21	17	13	11
VF/VX/VN5-5	0.75	1		37	35	34.5	33	30	27	23	18	15
VF/VX/VN5-6	1.1	1.5		44.5	42	41.5	40	37	33	27	21	18
VF/VX/VN5-7	1.1	1.5		52	49.5	48.5	46	42.5	38.5	31.5	24.5	21
VF/VX/VN5-8	1.1	1.5		59	57	56	53	49	44	36	28	24
VF/VX/VN5-9	1.5	2		67	64	63	60	55	49.5	41.5	31.5	27
VF/VX/VN5-10	1.5	2		74.5	71	70	66	62	55	46	35	30
VF/VX/VN5-11	1.5	2		82	78	77	73	68	61	51	39	33
VF/VX/VN5-12	2.2	3		89.5	85	84	81	74.5	66	55	43	37
VF/VX/VN5-13	2.2	3		97	92	91	87	80	71	60	47	40
VF/VX/VN5-14	2.2	3		104	100	98	93	87	77	65	51	43.5
VF/VX/VN5-15	2.2	3		112	107	106	100	93	82	69	54	46.5
VF/VX/VN5-16	2.2	3		119	114	112	107	99	88	74	58	50
VF/VX/VN5-18	3	4		134	128	126	120	111	99	84	66	56
VF/VX/VN5-21	3	4		157	150	147	140	130	116	98	77	66
VF/VX/VN5-23	4	5.5		172	165	161	153	142	128	108	86	74
VF/VX/VN5-25	4	5.5		187	179	175	167	155	139	117	93	80
VF/VX/VN5-28	4	5.5		210	201	197	187	174	156	132	105	90
VF/VX/VN5-30	5.5	7.5		225	216	212	201	186	169	144	115	98
VF/VX/VN5-33	5.5	7.5		249	238	234	222	206	187	160	127	109

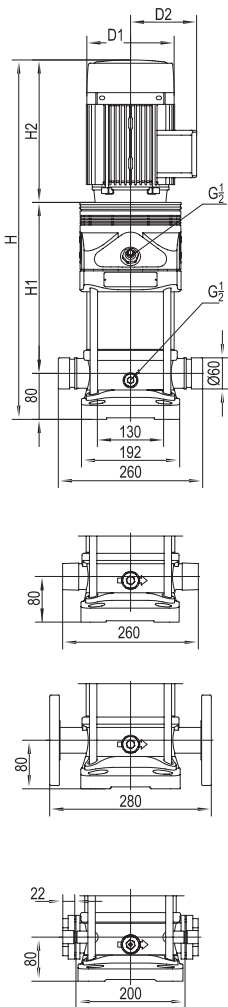
Performance curve ISO9906 Annex A.
性能曲线 ISO9906 Annex A.



VDR0010

Installation sketch

安装尺寸图

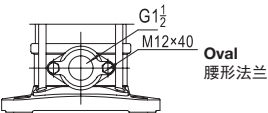
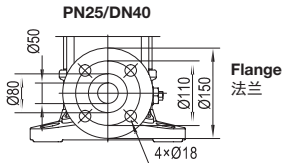
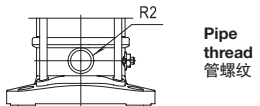
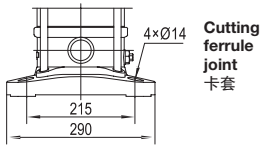


Models from 15 to 22 stages are not available in oval flange connection.

The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

15级~22级无腰形法兰连接。

单相电机/隔爆电机的外形尺寸请咨询本公司。



Size and weight

尺寸和重量

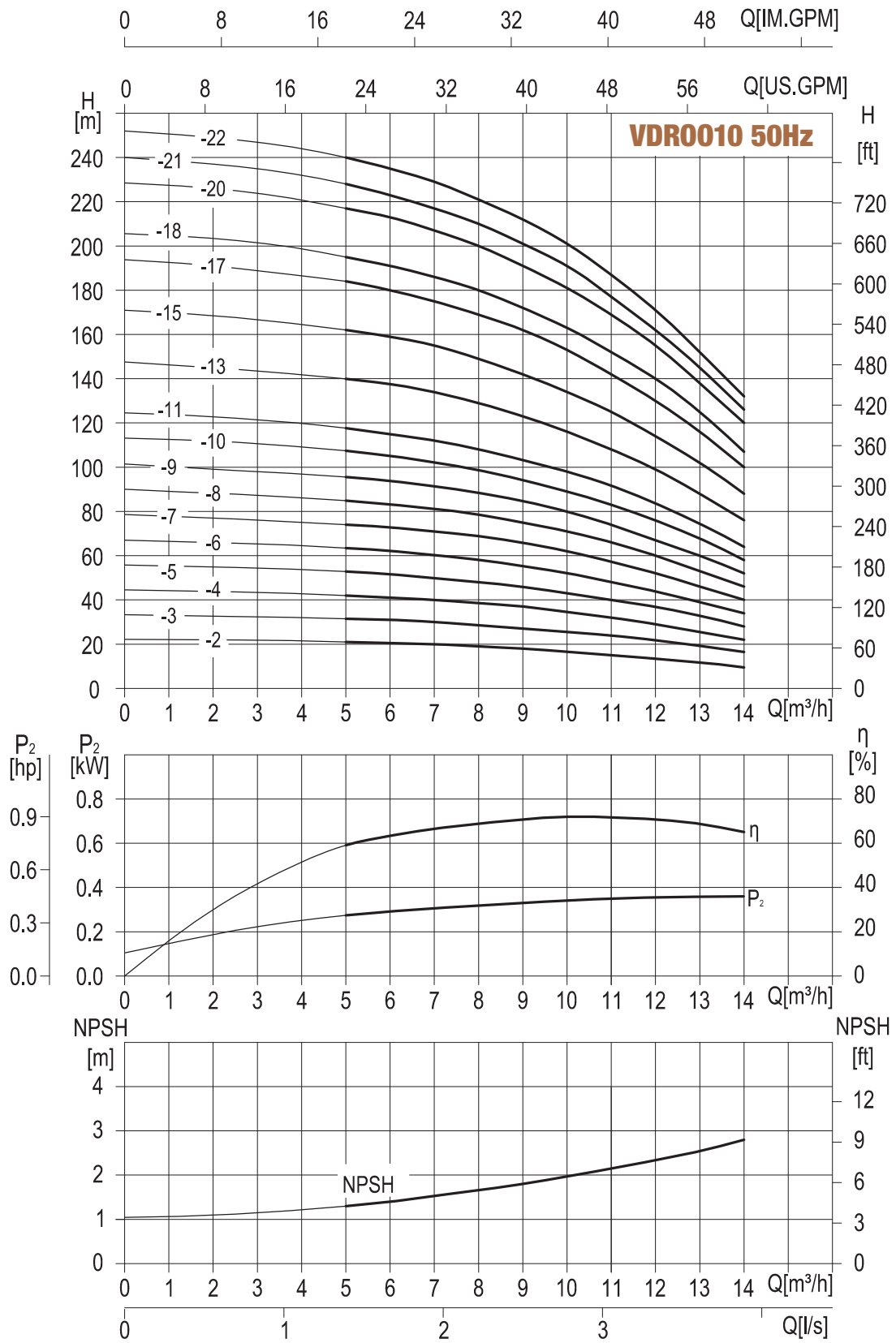
Model 型号	Dimension [mm] 尺寸 [mm]					Weight (kg) 净重(kg)	
	H1	H2	H	D1	D2	VF	VX, VN
VF/VX/VN10-2	267	248	595	148	108	32	30
VF/VX/VN10-3	297	248	625	148	108	35	33
VF/VX/VN10-4	337	292	709	171	118.5	41	39
VF/VX/VN10-5	367	292	739	171	118.5	45	43
VF/VX/VN10-6	397	292	769	171	118.5	46	44
VF/VX/VN10-7	437	343	860	196	131	57	55
VF/VX/VN10-8	467	343	890	196	131	58	56
VF/VX/VN10-9	497	348	925	215	150	65	63
VF/VX/VN10-10	527	348	955	215	150	66	64
VF/VX/VN10-11	557	348	985	215	150	67	65
VF/VX/VN10-12	665	391	1136	257	167	87	85
VF/VX/VN10-13	695	391	1166	257	167	88	86
VF/VX/VN10-15	755	391	1226	257	167	90	88
VF/VX/VN10-17	815	391	1286	257	167	100	98
VF/VX/VN10-18	845	391	1316	257	167	101	99
VF/VX/VN10-20	905	391	1376	257	167	103	101
VF/VX/VN10-22	995	500	1575	311	256	170	168

配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

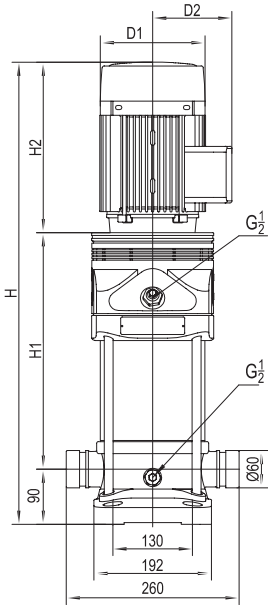
Model 型号	Motor 电机		Q (m³/h)	0	5	6	8	10	12	14
	(kW)	(hp)								
VF/VX/VN10-2	0.75	1	H(m)	22.2	21	20.5	19	16.5	13.5	9.5
VF/VX/VN10-3	1.1	1.5		33.3	31.5	31	28.5	25.5	22	16.5
VF/VX/VN10-4	1.5	2		44.5	42	41	38	34	29	22
VF/VX/VN10-5	2.2	3		56	52.5	51	48	43	37	28
VF/VX/VN10-6	2.2	3		67	63	62	58	52	44	34
VF/VX/VN10-7	3	4		78.5	74	73	69	62	52	40
VF/VX/VN10-8	3	4		90	85	84	79	71	60	46
VF/VX/VN10-9	4	5.5		101.5	96	94	89	80	67	52
VF/VX/VN10-10	4	5.5		113	107	105	98	89	76	58
VF/VX/VN10-11	4	5.5		124	118	115	108	98	84	64
VF/VX/VN10-12	5.5	7.5		137	129	126.5	119	106	91.5	70
VF/VX/VN10-13	5.5	7.5		147	140	138	130	116	99	76
VF/VX/VN10-15	5.5	7.5		171	162	159	149	134	114	88
VF/VX/VN10-17	7.5	10		194	184	180	169	153	130	100
VF/VX/VN10-18	7.5	10		205	195	191	180	163	141	108
VF/VX/VN10-20	7.5	10		228	217	213	200	181	155	120
VF/VX/VN10-22	11	15		250	240	235	221	201	171	132

Performance curve ISO9906 Annex A.
性能曲线 ISO9906 Annex A.



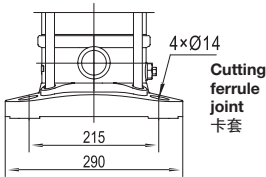
VDR0015

Installation sketch 安装尺寸图

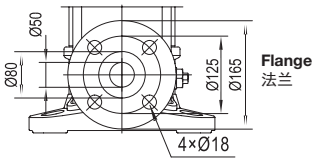
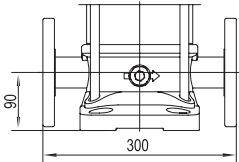
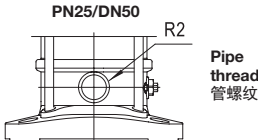
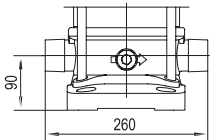


The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

单相电机/隔爆电机的外形尺寸请咨询本公司。



Cutting ferrule joint
卡套



Flange
法兰

Size and weight 尺寸和重量

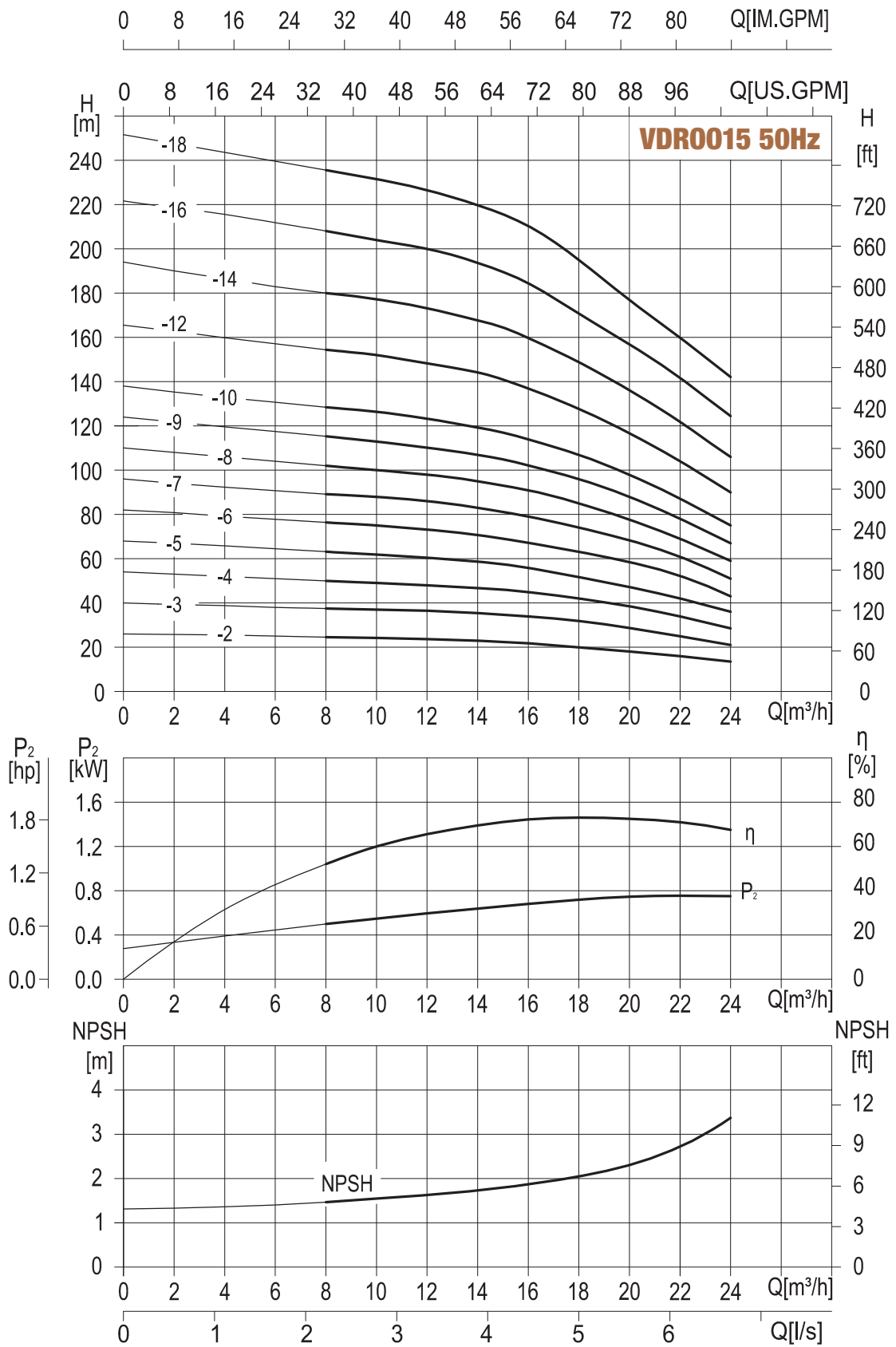
Model 型号	Dimension [mm] 尺寸 [mm]					Weight (kg) 净重(kg)	
	H1	H2	H	D1	D2	VF	VX,VN
VF/VX/VN15-2	307	292	689	171	118.5	48	41
VF/VX/VN15-3	362	343	795	196	131	59	52
VF/VX/VN15-4	407	348	845	215	150	66	59
VF/VX/VN15-5	452	348	890	215	150	68	61
VF/VX/VN15-6	575	391	1056	257	167	90	83
VF/VX/VN15-7	620	391	1101	257	167	91	84
VF/VX/VN15-8	665	391	1146	257	167	98	91
VF/VX/VN15-9	710	391	1191	257	167	99	92
VF/VX/VN15-10	785	500	1375	311	256	157	150
VF/VX/VN15-12	875	500	1465	311	256	160	153
VF/VX/VN15-14	965	500	1555	311	256	163	156
VF/VX/VN15-16	1055	500	1645	311	256	182	175
VF/VX/VN15-18	1145	500	1735	311	256	184	177

配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	0	8	10	12	14	15	16	18	20	22	24
	(kW)	(hp)												
VF/VX/VN15-2	2.2	3	H(m)	26	24.5	24	23.5	23	22.5	21.5	20	18	16	13.5
VF/VX/VN15-3	3	4		40	37.5	37	36.5	35.5	34.5	34	32	29	25	21
VF/VX/VN15-4	4	5.5		54	50.5	50	49	47.5	47	46	43	39	34	28.5
VF/VX/VN15-5	4	5.5		68	63	62	61	59	58	57	53	48	42.5	36
VF/VX/VN15-6	5.5	7.5		82	76	75	73	71	69	67	63	58	52	43
VF/VX/VN15-7	5.5	7.5		96	89	88	86	83	81	79	74	68	61	51
VF/VX/VN15-8	7.5	10		110	102	100	98	95	93	91	85	78	69	59
VF/VX/VN15-9	7.5	10		124	115	113	111	108	106	103	96	88	78	67
VF/VX/VN15-10	11	15		138	128	126	124	121	118	115	107	98	87	75
VF/VX/VN15-12	11	15		166	154	152	149	145	142	138	129	117	104	90
VF/VX/VN15-14	11	15		194	180	177	173	168	165	160	149	136	122	106
VF/VX/VN15-16	15	20		222	209	205	200	194	189	184	172	157	142	125
VF/VX/VN15-18	15	20		250	235	231	225	218	213	207	194	177	160	141

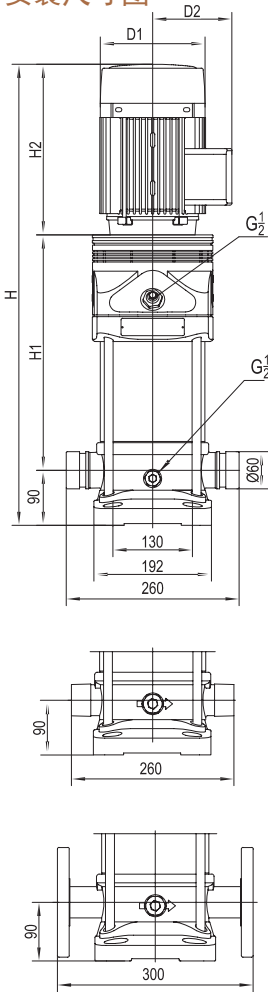
Performance curve ISO9906 Annex A.
性能曲线 ISO9906 Annex A.



VDR0020

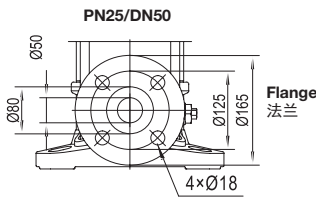
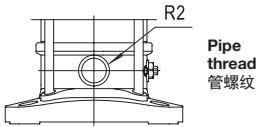
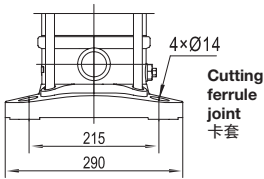
Installation sketch

安装尺寸图



The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

单相电机/隔爆电机的外形尺寸有请咨询本公司。



Size and weight 尺寸和重量

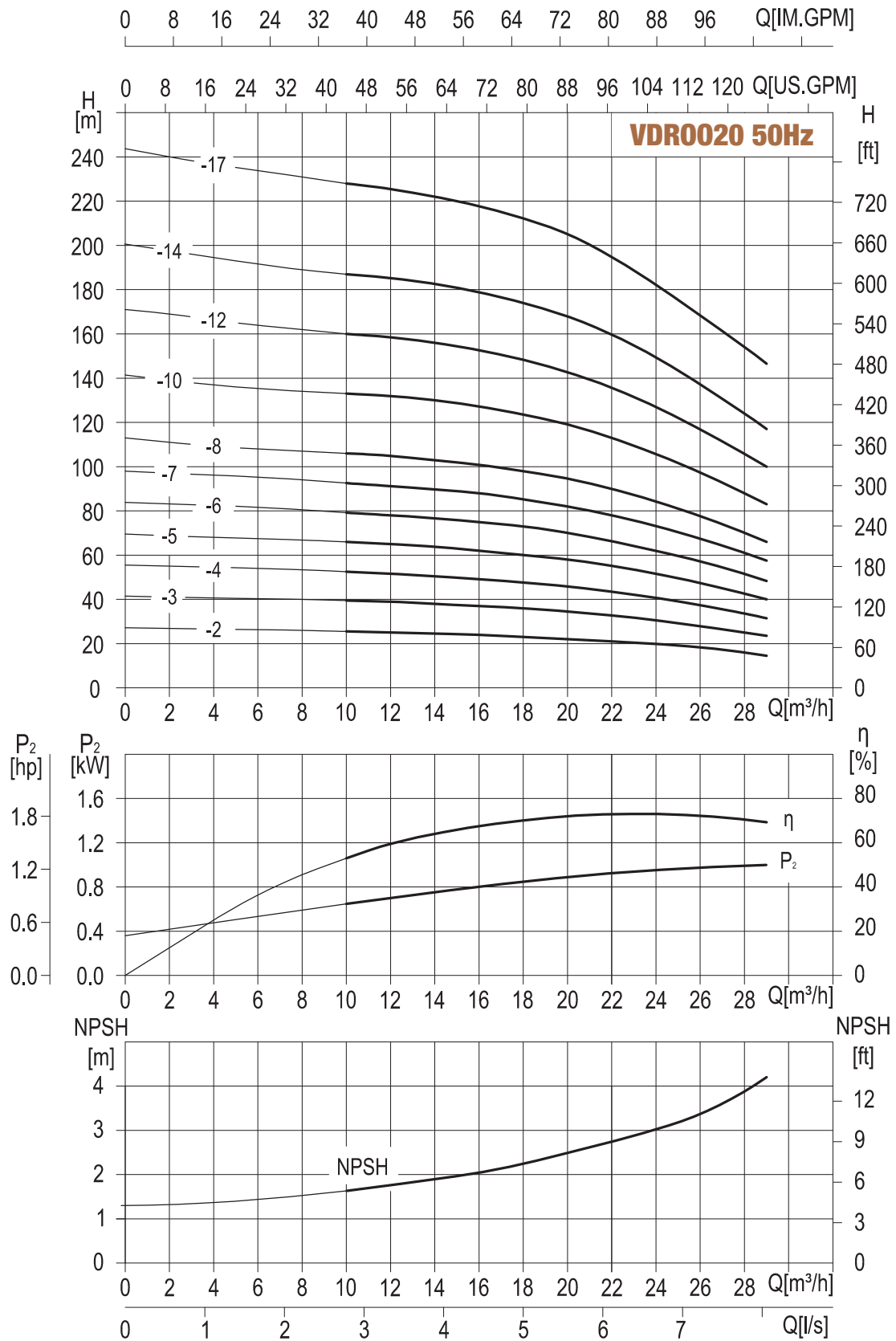
Model 型号	Dimension [mm] 尺寸 [mm]					Weight (kg) 净重(kg)	
	H1	H2	H	D1	D2	VF	VX,VN
VF/VX/VN20-2	307	292	689	171	118.5	48	41
VF/VX/VN20-3	362	348	800	215	150	66	59
VF/VX/VN20-4	485	391	966	257	167	88	81
VF/VX/VN20-5	530	391	1011	257	167	90	83
VF/VX/VN20-6	575	391	1056	257	167	99	92
VF/VX/VN20-7	620	391	1101	257	167	100	93
VF/VX/VN20-8	695	500	1285	311	256	167	160
VF/VX/VN20-10	785	500	1375	311	256	170	163
VF/VX/VN20-12	875	500	1465	311	256	188	181
VF/VX/VN20-14	965	500	1555	311	256	191	184
VF/VX/VN20-17	1100	544	1734	311	256	212	205

配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	0	10	12	14	16	18	20	22	24	26	28	29
	(kW)	(hp)													
VF/VX/VN20-2	2.2	3	H(m)	27.2	25.5	25	24.5	24	23.7	23	22	20.5	18	16	14.5
VF/VX/VN20-3	4	5.5		41.5	39.5	39	38	37	36	35	33	31	28	25	23.5
VF/VX/VN20-4	5.5	7.5		55.5	52.5	51	50	49	48.5	47	45	41.5	37	33	31.5
VF/VX/VN20-5	5.5	7.5		69.5	66	65	64	62	60	58	55	51	47	42	40
VF/VX/VN20-6	7.5	10		84	79	78	77	75	73	70	66	62	58	52	48
VF/VX/VN20-7	7.5	10		98	92.5	91	90	88	85	82	78	73	68	61	57.5
VF/VX/VN20-8	11	15		113	106	105	103	101	98	95	90	84	77	70	66
VF/VX/VN20-10	11	15		141	133	132	130	127	123	119	113	106	97	88	83
VF/VX/VN20-12	15	20		171	160	158	156	153	149	143	137	127	117	106	100
VF/VX/VN20-14	15	20		200	187	185	183	179	174	168	160	149	137	124	117
VF/VX/VN20-17	18.5	25		244	228	225	222	218	212	205	195	182	168	154	147

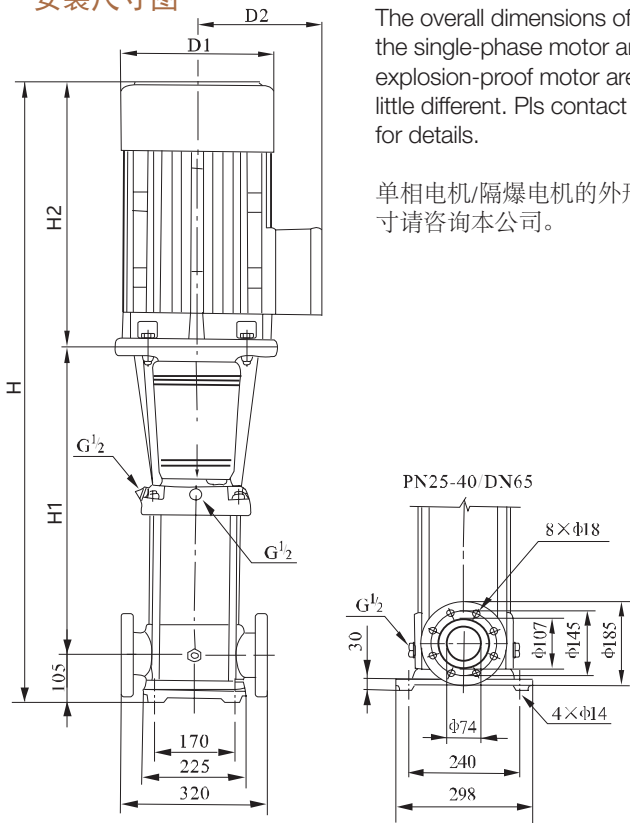
Performance curve ISO9906 Annex A.
性能曲线 ISO9906 Annex A.



VDR0032

Installation sketch

安装尺寸图



The overall dimensions of the single-phase motor and explosion-proof motor are a little different. Pls contact us for details.

单相电机/隔爆电机的外形尺寸请咨询本公司。

Size and weight 尺寸和重量

Model 型号	Dimension [mm] 尺寸 [mm]					Weight 净重 (kg)
	H1	H2	H	D1	D2	
VF/XX/VN/VD32-1	400	292	797	171	118.5	68
VF/XX/VN/VD32-2-2/ VF/XX/VN/VD32-2	470	343/ 348	918/ 923	196/ 215	131/ 150	78/ 85
VF/XX/VN/VD32-3-2/ VF/XX/VN/VD32-3	540	391	1036	257	167	100
VF/XX/VN/VD32-4-2/ VF/XX/VN/VD32-4	610	391	1106	257	167	109
VF/XX/VN/VD32-5-2/ VF/XX/VN/VD32-5	785	500	1390	311	256	181
VF/XX/VN/VD32-6-2/ VF/XX/VN/VD32-6	855	500	1460	311	256	185
VF/XX/VN/VD32-7-2/ VF/XX/VN/VD32-7	925	500	1530	311	256	199
VF/XX/VN/VD32-8-2/ VF/XX/VN/VD32-8	995	500	1600	311	256	203
VF/XX/VN/VD32-9-2/ VF/XX/VN/VD32-9	1065	544	1714	311	256	222
VF/XX/VN/VD32-10-2/ VF/XX/VN/VD32-10	1135	544	1784	311	256	227
VF/XX/VN/VD32-11-2/ VF/XX/VN/VD32-11	1205	580	1890	350	277	272
VF/XX/VN/VD32-12-2/ VF/XX/VN/VD32-12	1275	580	1960	350	277	276
VF/XX/VN/VD32-13-2/ VF/XX/VN/VD32-13	1345	652	2102	400	308	337
VF/XX/VN/VD32-14-2/ VF/XX/VN/VD32-14	1415	652	2172	400	308	341
VF/XX/VN/VD32-15-2/ VF/XX/VN/VD32-15	1485	652	2242	400	308	345
VF/XX/VN/VD32-16-2/ VF/XX/VN/VD32-16	1555	652	2312	400	308	350

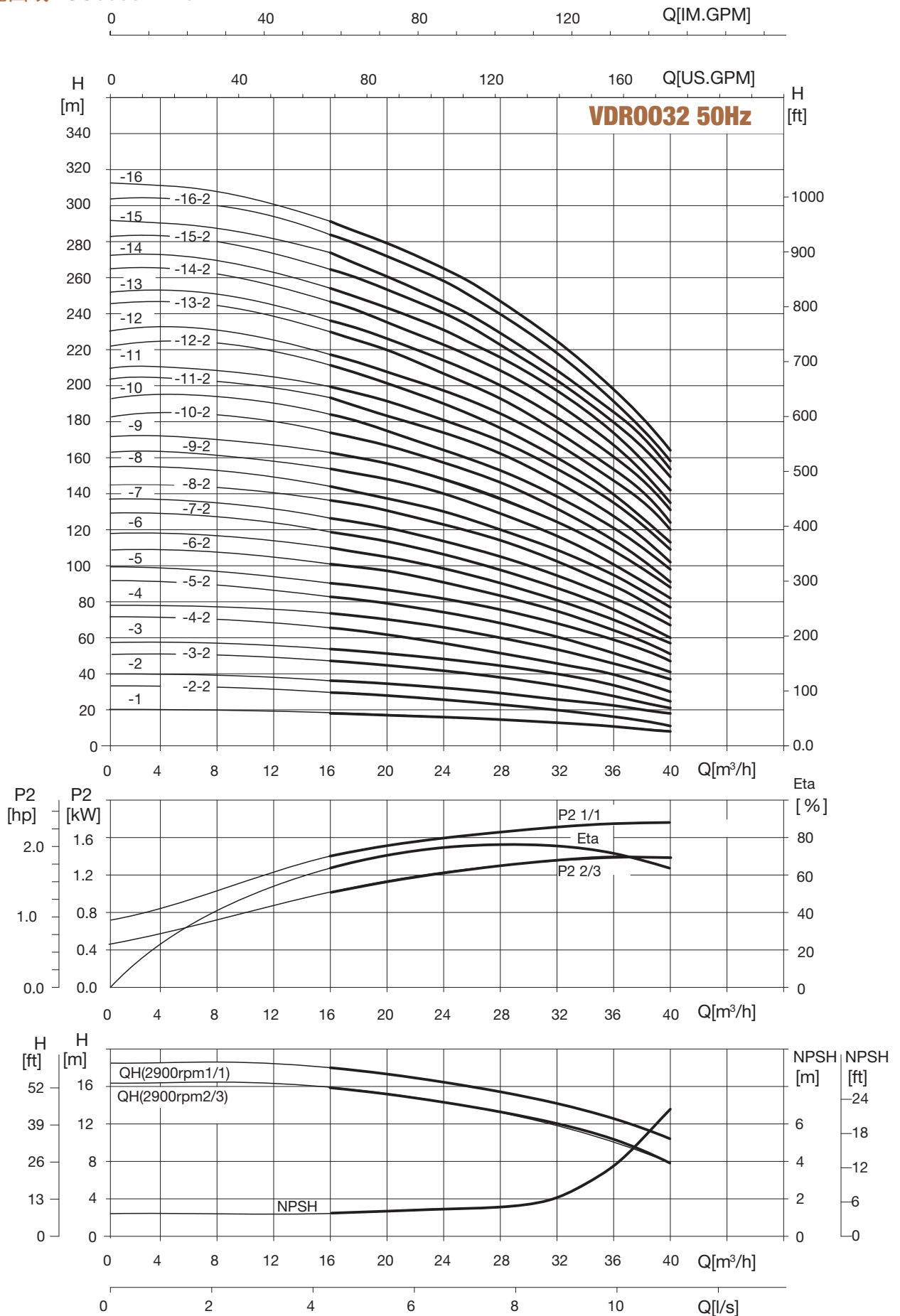
配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	16	20	24	28	32	36	40
	(kW)	(hp)								
VF/XX/VN/VD32-1	2.2	3	H (m)	18	17	15	14	13	11	8
VF/XX/VN/VD32-2-2	3	4		29	28	26	23	20	16	11
VF/XX/VN/VD32-2	4	5.5		36	34	32	29	27	23	18
VF/XX/VN/VD32-3-2	5.5	7.5		47	44	41	38	33	28	21
VF/XX/VN/VD32-3	5.5	7.5		54	51	48	44	40	35	27
VF/XX/VN/VD32-4-2	7.5	10		65	62	58	53	46	40	30
VF/XX/VN/VD32-4	7.5	10		72	69	65	59	53	47	37
VF/XX/VN/VD32-5-2	11	15		83	79	74	68	60	52	41
VF/XX/VN/VD32-5	11	15		90	86	81	74	67	59	47
VF/XX/VN/VD32-6-2	11	15		101	97	90	83	74	65	51
VF/XX/VN/VD32-6	11	15		108	104	97	90	81	72	57
VF/XX/VN/VD32-7-2	15	20		119	114	107	98	88	78	60
VF/XX/VN/VD32-7	15	20		126	121	113	105	95	85	67
VF/XX/VN/VD32-8-2	15	20		136	131	123	114	102	90	71
VF/XX/VN/VD32-8	15	20		144	138	130	120	109	97	77
VF/XX/VN/VD32-9-2	18.5	25		154	148	140	129	117	102	82
VF/XX/VN/VD32-9	18.5	25		162	156	147	136	124	109	88
VF/XX/VN/VD32-10-2	18.5	25		175	166	157	146	131	115	91
VF/XX/VN/VD32-10	18.5	25		182	173	164	152	138	122	98
VF/XX/VN/VD32-11-2	22	30		193	184	173	164	146	128	102
VF/XX/VN/VD32-11	22	30		200	191	180	168	153	135	109
VF/XX/VN/VD32-12-2	22	30		211	201	189	178	160	140	113
VF/XX/VN/VD32-12	22	30		218	208	196	184	167	147	120
VF/XX/VN/VD32-13-2	30	40		230	228	206	193	174	153	124
VF/XX/VN/VD32-13	30	40		237	225	213	200	181	160	131
VF/XX/VN/VD32-14-2	30	40		247	235	222	210	189	165	135
VF/XX/VN/VD32-14	30	40		255	242	229	216	196	172	142
VF/XX/VN/VD32-15-2	30	40		266	253	239	224	203	178	145
VF/XX/VN/VD32-15	30	40		274	260	246	231	210	185	152
VF/XX/VN/VD32-16-2	30	40		284	270	255	240	218	190	156
VF/XX/VN/VD32-16	30	40		292	277	262	246	225	197	163

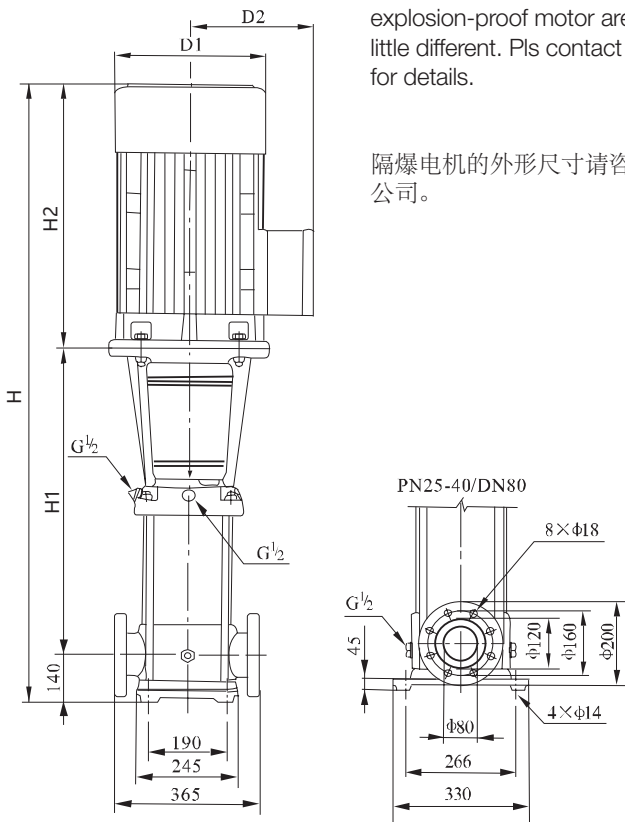
Performance curve ISO9906 Annex A.

性能曲线 ISO9906 Annex A.



VDR0045

Installation sketch 安装尺寸图



The overall dimensions of the explosion-proof motor are a little different. Pls contact us for details.

隔爆电机的外形尺寸请咨询本公司。

Size and weight 尺寸和重量

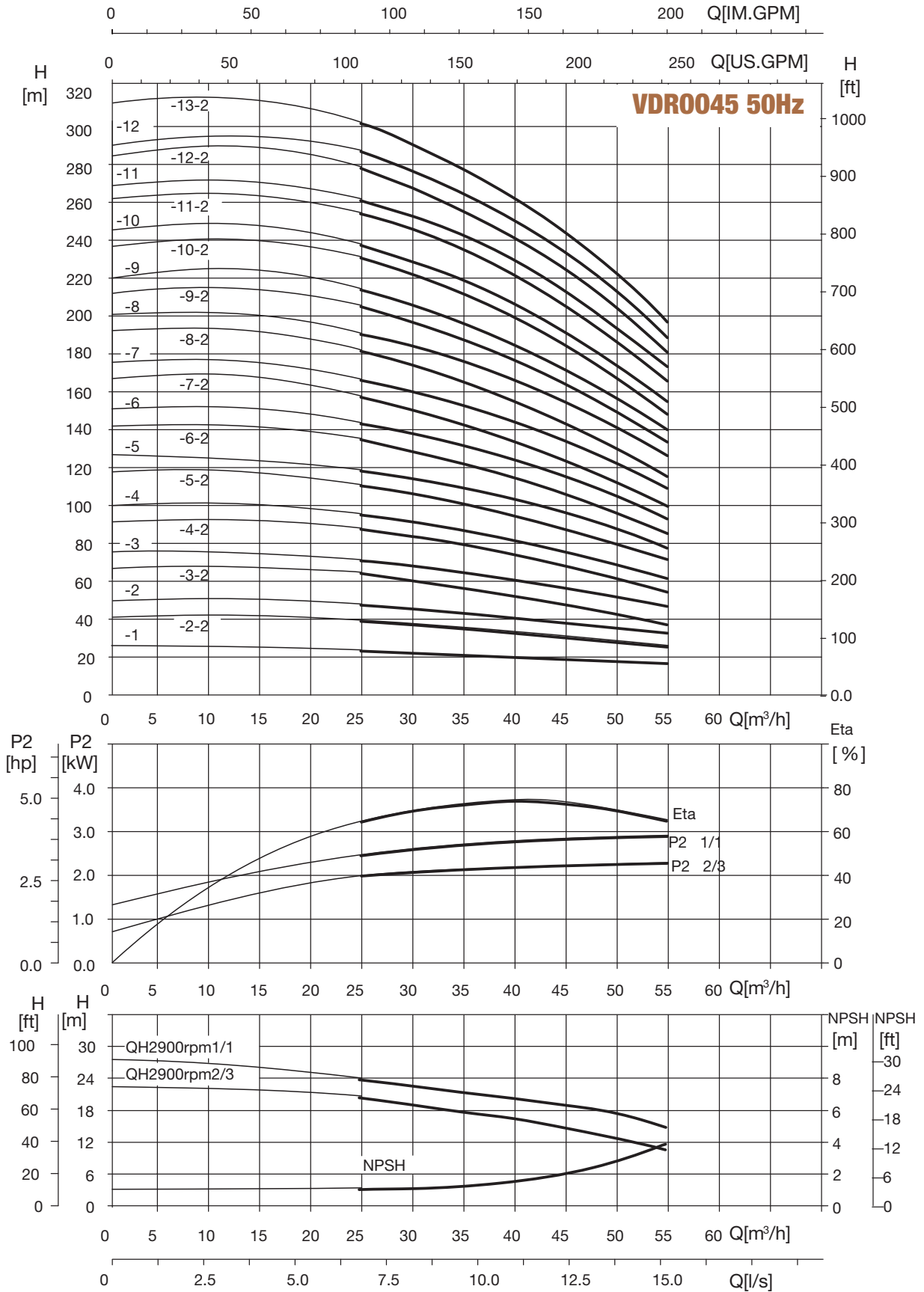
Model 型号	Dimension [mm] 尺寸 [mm]					Weight 净重 (kg)
	H1	H2	H	D1	D2	
VF/VX/VN/VD45-1-1/ VF/VX/VN/VD45-1	421	343/ 348	904/ 909	196/ 215	131/ 150	83/ 90
VF/VX/VN/VD45-2-2/ VF/VX/VN/VD45-2	501	391	1032	257	167	105/ 110
VF/VX/VN/VD45-3-2/ VF/VX/VN/VD45-3	686	500	1326	311	256	183
VF/VX/VN/VD45-4-2/ VF/VX/VN/VD45-4	766	500	1406	311	256	197
VF/VX/VN/VD45-5-2/ VF/VX/VN/VD45-5	846	544	1530	311	256	221
VF/VX/VN/VD45-6-2/ VF/VX/VN/VD45-6	926	580	1646	350	277	261
VF/VX/VN/VD45-7-2/ VF/VX/VN/VD45-7	1006	652	1798	400	308	320
VF/VX/VN/VD45-8-2/ VF/VX/VN/VD45-8	1086	652	1878	400	308	324
VF/VX/VN/VD45-9-2/ VF/VX/VN/VD45-9	1166	652	1958	400	308	328/ 352
VF/VX/VN/VD45-10-2/ VF/VX/VN/VD45-10	1246	652	2038	400	308	355
VF/VX/VN/VD45-11-2/ VF/VX/VN/VD45-11	1326	697	2163	446	326	426
VF/VX/VN/VD45-12-2/ VF/VX/VN/VD45-12	1406	697	2243	446	326	432
VF/VX/VN/VD45-13-2	1486	697	2323	446	326	438

配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

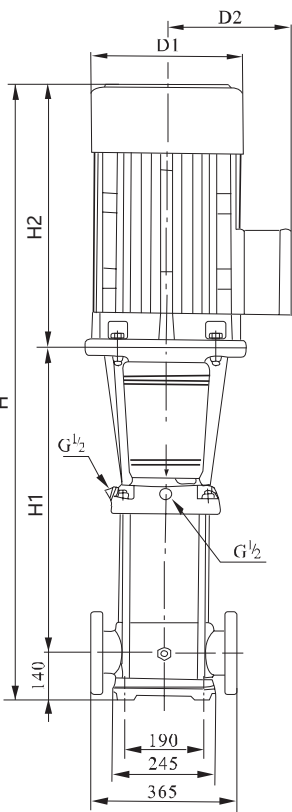
Model 型号	Motor 电机		Q (m³/h)	25	30	35	40	42	45	50	55
	(kW)	(hp)									
VF/VX/VN/VD45-1-1	3	4	H (m)	20	19	18	17	16	15	13	11
VF/VX/VN/VD45-1	4	5.5		24	23	22	21	20	19	18	16
VF/VX/VN/VD45-2-2	5.5	7.5		40	38	36	33	32	30	27	23
VF/VX/VN/VD45-2	7.5	10		48	46	44	42	41	39	35	31
VF/VX/VN/VD45-3-2	11	15		63	61	58	54	52	50	44	38
VF/VX/VN/VD45-3	11	15		71	69	66	63	61	58	53	47
VF/VX/VN/VD45-4-2	15	20		87	84	80	75	73	69	62	54
VF/VX/VN/VD45-4	15	20		95	92	88	84	81	78	71	62
VF/VX/VN/VD45-5-2	18.5	25		111	107	102	96	93	88	80	69
VF/VX/VN/VD45-5	18.5	25		119	115	110	105	101	97	88	78
VF/VX/VN/VD45-6-2	22	30		135	130	124	117	113	108	97	85
VF/VX/VN/VD45-6	22	30		143	138	132	125	122	116	106	93
VF/VX/VN/VD45-7-2	30	40		158	152	146	138	134	127	115	100
VF/VX/VN/VD45-7	30	40		166	161	154	146	142	135	124	109
VF/VX/VN/VD45-8-2	30	40		182	175	168	159	154	146	133	116
VF/VX/VN/VD45-8	30	40		190	184	176	167	162	154	141	124
VF/VX/VN/VD45-9-2	30	40		205	198	190	180	174	166	150	132
VF/VX/VN/VD45-9	37	50		214	207	198	188	183	174	159	140
VF/VX/VN/VD45-10-2	37	50		230	221	212	200	194	185	168	147
VF/VX/VN/VD45-10	37	50		238	230	220	209	203	193	177	155
VF/VX/VN/VD45-11-2	45	60		255	246	236	223	217	206	188	165
VF/VX/VN/VD45-11	45	60		263	255	244	232	225	214	196	173
VF/VX/VN/VD45-12-2	45	60		280	270	259	245	238	226	206	181
VF/VX/VN/VD45-12	45	60		289	280	268	255	247	236	216	190
VF/VX/VN/VD45-13-2	45	60		305	294	282	267	259	247	225	198

Performance curve ISO9906 Annex A.
性能曲线 ISO9906 Annex A.



VDR0065

Installation sketch 安装尺寸图

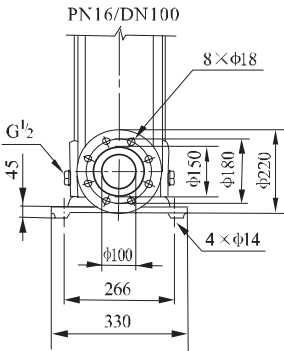


The overall dimensions of the explosion-proof motor are a little different. Pls contact us for details.

PN25-40/DN100 standard flange is also available if required.

隔爆电机的外形尺寸请咨询本公司。

可按要求提供PN25-40/DN100标准法兰。



Size and weight 尺寸和重量

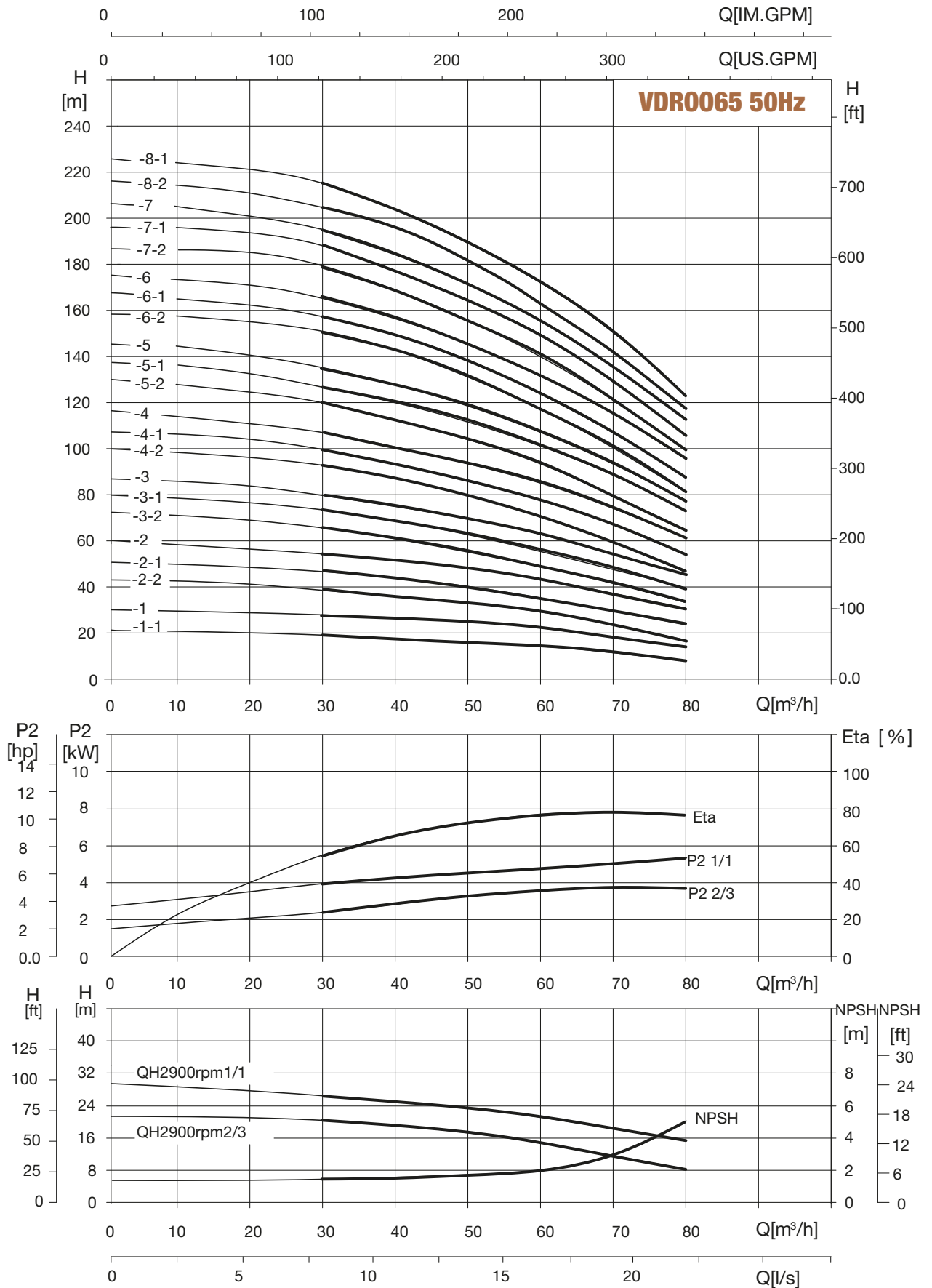
Model 型号	Dimension [mm] 尺寸 [mm]					Weight 净重 (kg)
	H1	H2	H	D1	D2	
VF/VX/VN/VD65-1-1	421	348	909	215	150	93
VF/VX/VN/VD65-1	421	391	952	257	167	105
VF/VX/VN/VD65-2-2	504	391	1035	257	167	110
VF/VX/VN/VD65-2-1	614	500	1254	311	256	182
VF/VX/VN/VD65-2	614	500	1254	311	256	182
VF/VX/VN/VD65-3-2	696	500	1336	311	256	196
VF/VX/VN/VD65-3-1	696	500	1336	311	256	197
VF/VX/VN/VD65-3	696	544	1380	311	256	221
VF/VX/VN/VD65-4-2	779	544	1463	311	256	225
VF/VX/VN/VD65-4-1	779	580	1499	350	277	258
VF/VX/VN/VD65-4	779	580	1499	350	277	258
VF/VX/VN/VD65-5-2	861	652	1653	400	308	319
VF/VX/VN/VD65-5-1	861	652	1653	400	308	319
VF/VX/VN/VD65-5	861	652	1653	400	308	320
VF/VX/VN/VD65-6-2	944	652	1736	400	308	325
VF/VX/VN/VD65-6-1	944	652	1736	400	308	349
VF/VX/VN/VD65-6	944	652	1736	400	308	349
VF/VX/VN/VD65-7-2	1026	652	1818	400	308	353
VF/VX/VN/VD65-7-1	1026	652	1818	400	308	353
VF/VX/VN/VD65-7	1026	697	1863	446	326	420
VF/VX/VN/VD65-8-2	1108	697	1945	446	326	424
VF/VX/VN/VD65-8-1	1108	697	1945	446	326	424

配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

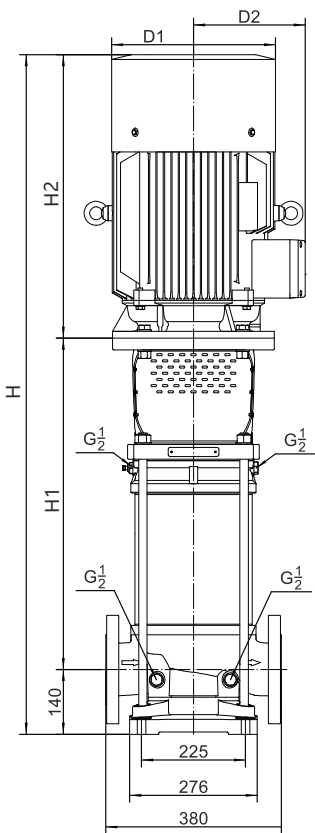
Model 型号	Motor 电机		Q (m³/h)	30	40	50	60	65	70	80
	(kW)	(hp)								
VF/VX/VN/VD65-1-1	4	5.5	H (m)	19	18	16	14	13	11	8
VF/VX/VN/VD65-1	5.5	7.5		27	25	23	21	20	18	15
VF/VX/VN/VD65-2-2	7.5	10		39	36	33	29	26	23	17
VF/VX/VN/VD65-2-1	11	15		46	44	40	36	33	30	24
VF/VX/VN/VD65-2	11	15		53	51	47	43	40	37	30
VF/VX/VN/VD65-3-2	15	20		66	62	56	50	45	41	32
VF/VX/VN/VD65-3-1	15	20		73	69	63	57	53	48	39
VF/VX/VN/VD65-3	18.5	25		80	76	70	64	60	55	46
VF/VX/VN/VD65-4-2	18.5	25		92	87	80	71	66	60	47
VF/VX/VN/VD65-4-1	22	30		100	94	87	78	73	67	54
VF/VX/VN/VD65-4	22	30		107	101	94	85	80	74	61
VF/VX/VN/VD65-5-2	30	40		121	114	105	95	88	80	64
VF/VX/VN/VD65-5-1	30	40		128	121	112	102	95	87	71
VF/VX/VN/VD65-5	30	40		136	129	119	109	102	94	78
VF/VX/VN/VD65-6-2	30	40		150	142	131	118	110	101	81
VF/VX/VN/VD65-6-1	37	50		157	149	138	125	117	108	88
VF/VX/VN/VD65-6	37	50		164	156	145	132	124	115	95
VF/VX/VN/VD65-7-2	37	50		179	169	156	141	132	121	99
VF/VX/VN/VD65-7-1	37	50		186	176	163	148	139	128	106
VF/VX/VN/VD65-7	45	60		193	183	170	155	146	135	112
VF/VX/VN/VD65-8-2	45	60		207	196	182	164	154	142	116
VF/VX/VN/VD65-8-1	45	60		215	203	189	171	161	149	123

Performance curve ISO9906 Annex A.
性能曲线 ISO9906 Annex A.



VDR0095

Installation sketch 安装尺寸图

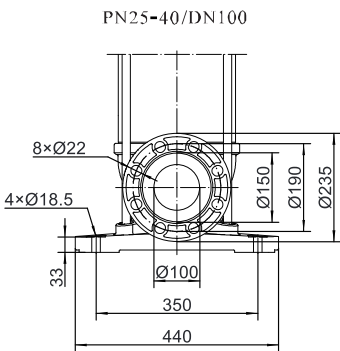


The overall dimensions of the explosion-proof motor are a little different. Pls contact us for details.

PN25-40/DN100 standard flange is also available if required.

隔爆电机的外形尺寸请咨询本公司。

95-1-1~95-5型号也可按照客户要求提供PN16/DN100标准法兰



Size and weight 尺寸和重量

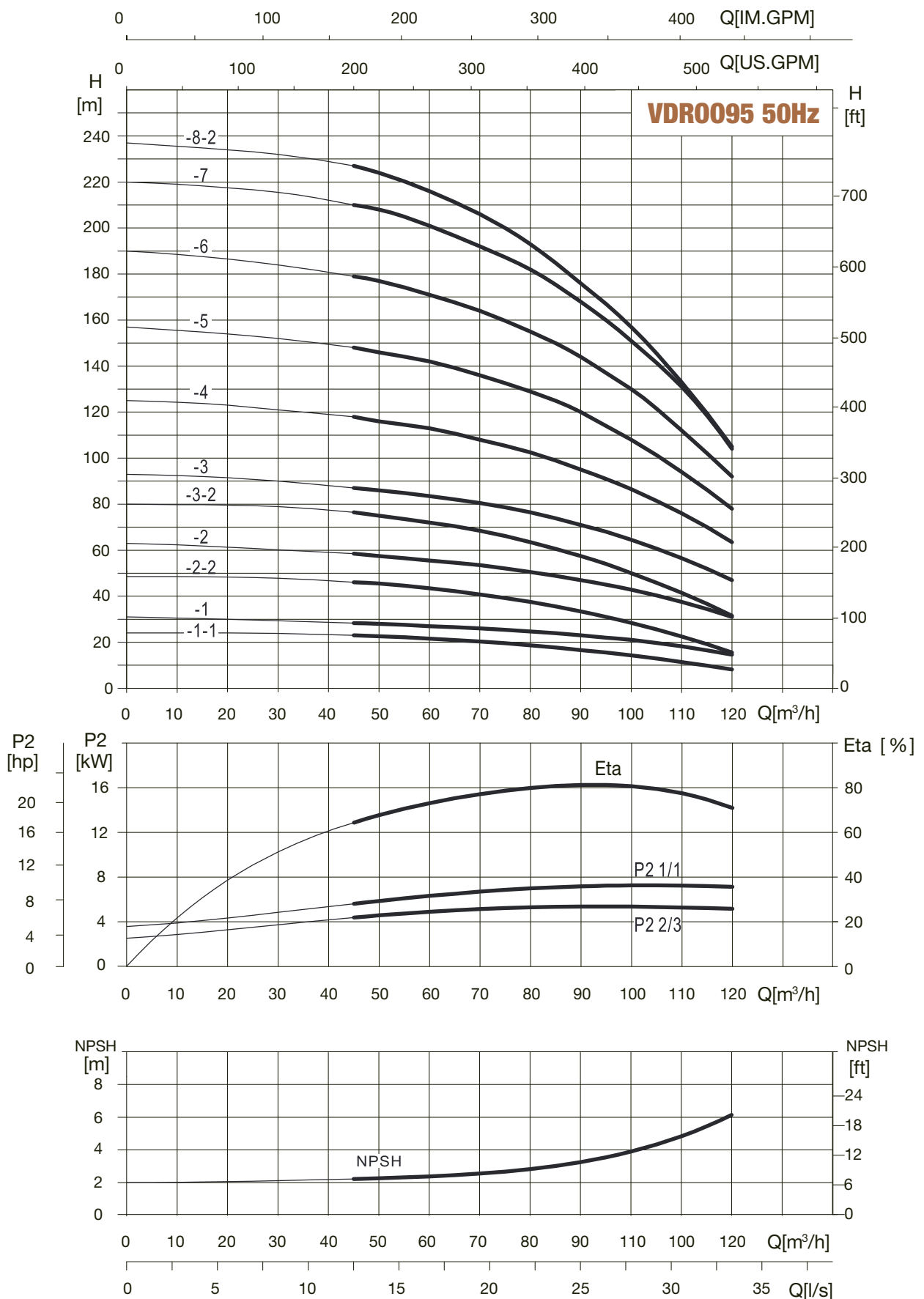
Model 型号	Dimension [mm] 尺寸 [mm]					Weight 净重 (kg)
	H1	H2	H	D1	D2	
VF/VX/VN95-1-1	492	391	1023	257	167	134
VF/VX/VN95-1	492	391	1023	257	167	142
VF/VX/VN95-2-2	620	500	1260	311	256	218
VF/VX/VN95-2	620	500	1260	311	256	233
VF/VX/VN95-3-2	717	544	1401	311	256	246
VF/VX/VN95-3	717	580	1437	350	230	300
VF/VX/VN95-4	815	652	1607	400	308	367
VF/VX/VN95-5	912	652	1704	400	308	392
VF/VX/VN95-6	1010	697	1847	446	326	497
VF/VX/VN95-7	1137	770	2047	485	367	567
VF/VX/VN95-8-2	1235	770	2145	485	367	572

配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

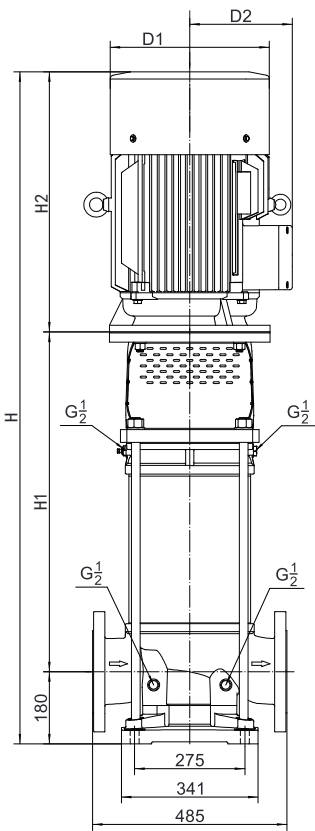
Model 型号	Motor 电机		Q (m³/h)	45	50	60	70	80	90	95	100	110	120
	(kW)	(hp)											
VF/VX/VN95-1-1	5.5	7.5	H (m)	23	22.6	21.6	20.3	18.7	16.6	15.5	14.3	11.4	8.2
VF/VX/VN95-1	7.5	10		28.3	28	27	26	24.7	23	22	21	18.2	14.6
VF/VX/VN95-2-2	11	15		46	45.5	43.5	40.8	37.5	33.4	31	28.4	22.5	15.5
VF/VX/VN95-2	15	20		58.5	57.5	55.5	53.5	50.5	47	45	42.5	37.5	31
VF/VX/VN95-3-2	18.5	25		76.5	75	72	68.5	63.5	57.5	54	50	41.5	31.5
VF/VX/VN95-3	22	30		87	86	83.5	80.5	76.5	71	68	64.5	56.5	47
VF/VX/VN95-4	30	40		118	116	113	108	102.5	95	91	86.5	76	63.5
VF/VX/VN95-5	37	50		148	146	142	136	129	120	114	108	94	78
VF/VX/VN95-6	45	60		179	177	171	164	155	144	137	130	112	92
VF/VX/VN95-7	55	75		210	208	201	192	182	168	160	151	131	104
VF/VX/VN95-8-2	55	75		227	224	216	206	193	176	167	157	133	105

Performance curve ISO9906 Annex A.
性能曲线 ISO9906 Annex A.



VDR00130

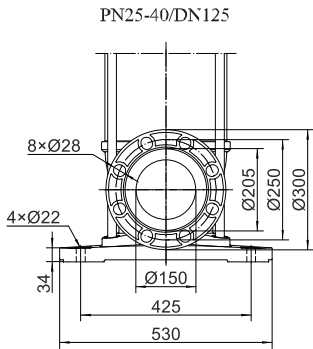
Installation sketch 安装尺寸图



The overall dimensions of the explosion-proof motor are a little different. Pls contact us for details.

隔爆电机的外形尺寸请咨询本公司。

130-1~130-4 型号也可按照客户要求提供PN16/DN100标准法兰



Size and weight 尺寸和重量

Model 型号	Dimension [mm] 尺寸 [mm]					Weight 净重 (kg)
	H1	H2	H	D1	D2	
VF/VX/VN130-1	603	500	1283	311	256	264
VF/VX/VN130-2-2	725	500	1405	311	256	291
VF/VX/VN130-2-1	725	544	1449	350	277	299
VF/VX/VN130-2	725	580	1485	350	277	352
VF/VX/VN130-3-1	847	652	1679	400	308	423
VF/VX/VN130-3	847	652	1679	400	308	443
VF/VX/VN130-4-2	969	652	1801	400	308	453
VF/VX/VN130-4	969	697	1846	446	326	551
VF/VX/VN130-5	1121	770	2071	485	367	622
VX/VN130-6	1243	835	2258	547	391	777
VX/VN130-7	1365	835	2380	547	391	788
VX/VN130-8	1487	885	2552	547	391	819
VX/VN130-9-2	1609	885	2674	547	391	832
VX/VN130-9	1609	1060	2809	620	533	1258
VX/VN130-10	1731	1060	2930	620	533	1268

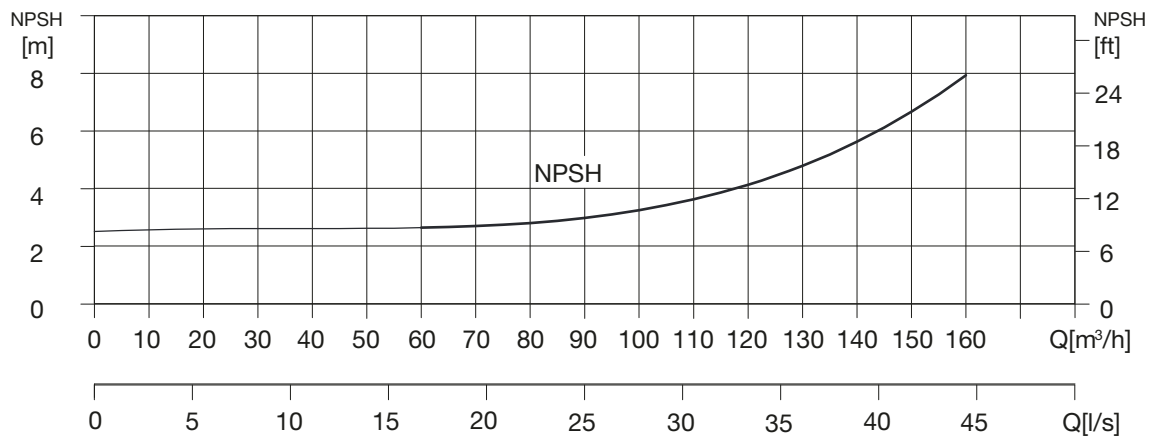
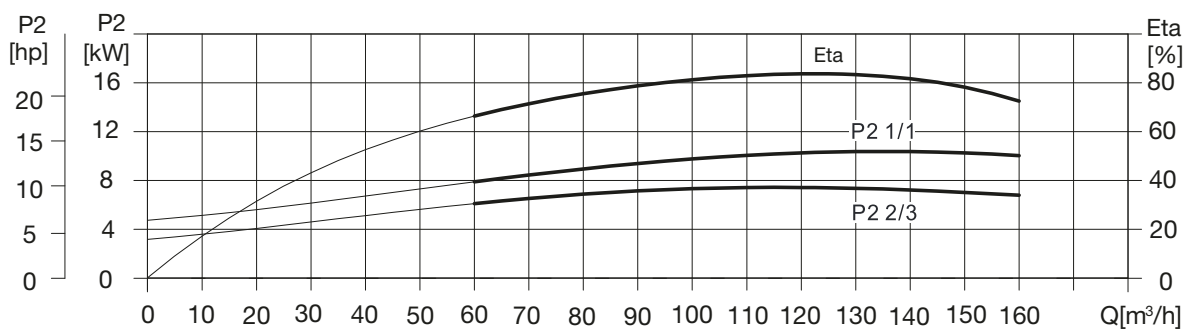
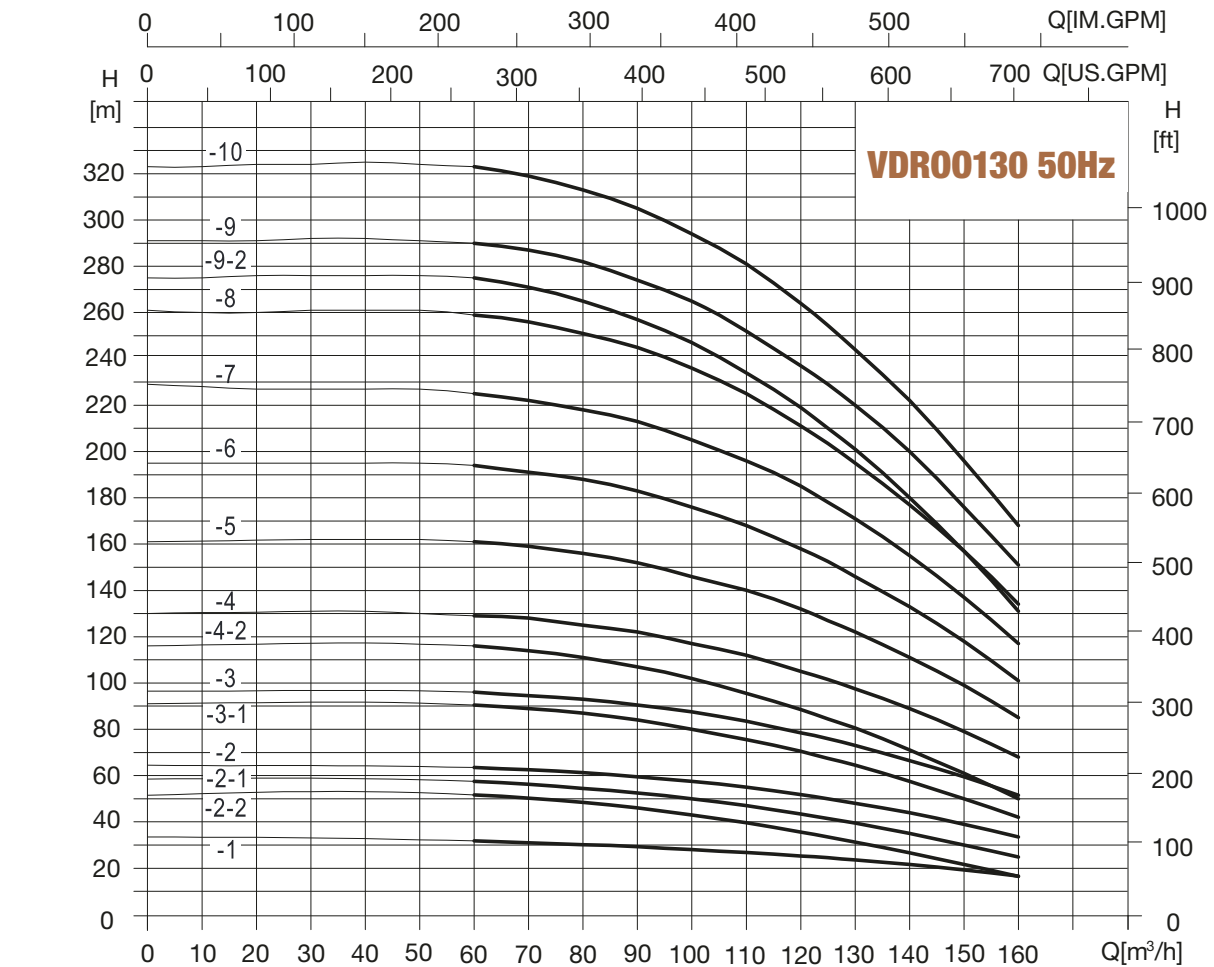
配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	60	70	80	90	100	110	120	130	140	150	160
	(kW)	(hp)												
VF/VX/VN130-1	11	15	H (m)	31.8	31	30.2	29.3	28	26.8	25.3	23.6	21.6	19.3	16.6
VF/VX/VN130-2-2	15	20		51.7	50.3	48.4	46	43	39.6	35.6	31.3	26.6	21.6	16.5
VF/VX/VN130-2-1	18.5	25		57.5	56.2	54.5	52.5	50	47	43.4	39.5	35	30	24.8
VF/VX/VN130-2	22	30		63.5	62.5	61.3	59.5	57.5	55	51.8	48	44	39	33.5
VF/VX/VN130-3-1	30	40		90.5	89	87	84	80	75.5	70.5	64.5	57.5	50	42
VF/VX/VN130-3	37	50		96	94.5	93	90.5	87.5	83.5	78.5	73	66.5	59.5	51.5
VF/VX/VN130-4-2	37	50		116	114	111	107	102	95.5	88.5	80.5	71	61	50
VF/VX/VN130-4	45	60		129	128	125	122	117	112	105	97.5	89	79	68
VF/VX/VN130-5	55	75		161	159	156	152	146	140	132	122	111	99	85
VX/VN130-6	75	100		194	191	188	183	176	168	158	146	133	118	101
VX/VN130-7	75	100		225	222	218	213	205	196	185	171	155	137	117
VX/VN130-8	90	120		259	256	251	245	236	225	211	195	177	157	134
VX/VN130-9-2	90	120		275	271	265	257	247	234	219	201	180	157	131
VX/VN130-9	110	150		290	287	282	274	265	252	237	220	200	176	151
VX/VN130-10	110	150		323	319	313	305	294	281	264	244	222	196	168

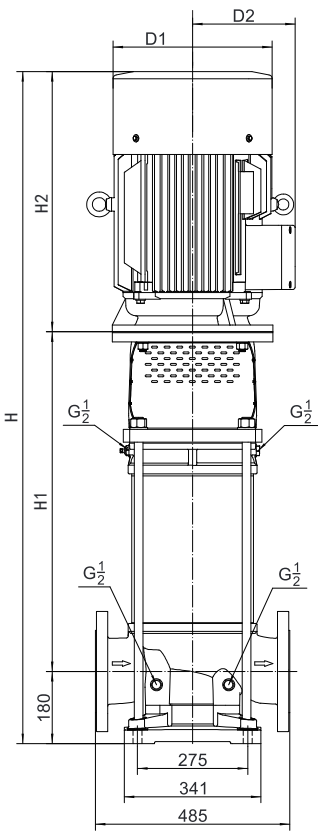
Performance curve ISO9906 Annex A.

性能曲线 ISO9906 Annex A.



VDR00155

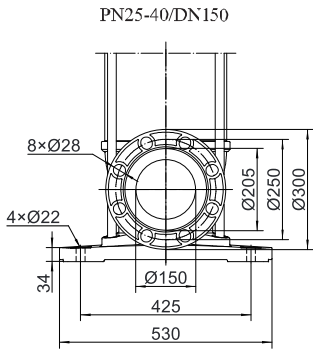
Installation sketch 安装尺寸图



The overall dimensions of the explosion-proof motor are a little different. Pls contact us for details.

隔爆电机的外形尺寸请咨询本公司。

155-1-1~155-4-1 型号也可按照客户要求提供PN16/DN100 标准法兰



Size and weight 尺寸和重量

Model 型号	Dimension [mm] 尺寸 [mm]					Weight 净重 (kg)
	H1	H2	H	D1	D2	
VF/VX/VN155-1-1	603	500	1283	311	256	230
VF/VX/VN155-1	603	500	1283	311	256	235
VF/VX/VN155-2-2	725	580	1485	350	277	250
VF/VX/VN155-2	725	652	1557	400	308	295
VF/VX/VN155-3-2	847	652	1679	400	308	350
VF/VX/VN155-3	847	697	1724	446	326	360
VF/VX/VN155-4-1	999	770	1949	485	367	360
VF/VX/VN155-5-2	1121	835	2136	547	391	385
VF/VX/VN155-5	1121	835	2136	547	391	460
VF/VX/VN155-6	1243	885	2308	547	391	460
VF/VX/VN155-7	1365	1060	2605	620	533	560
VF/VX/VN155-8-2	1487	1060	2727	620	533	570

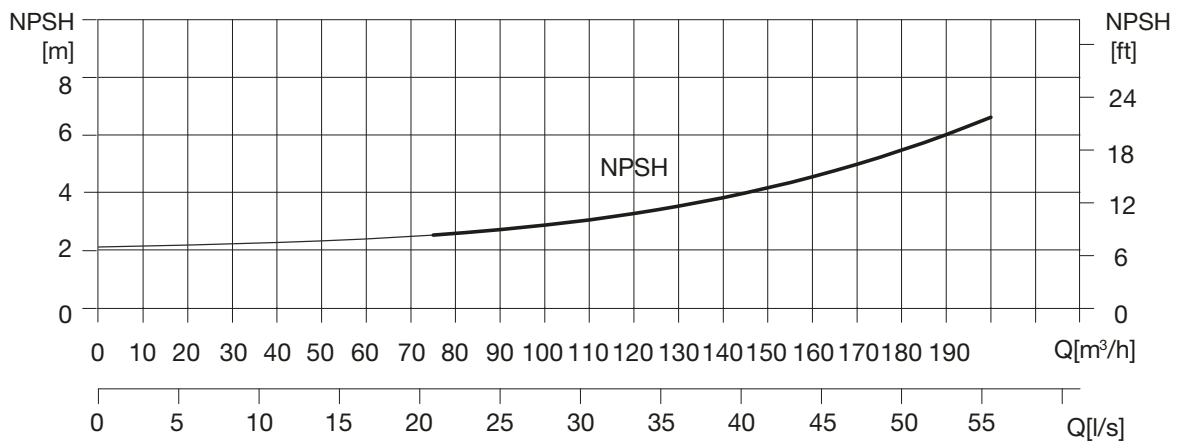
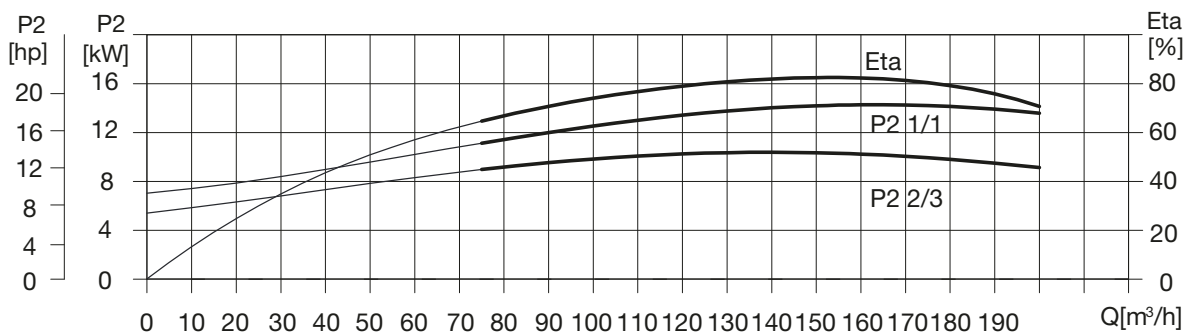
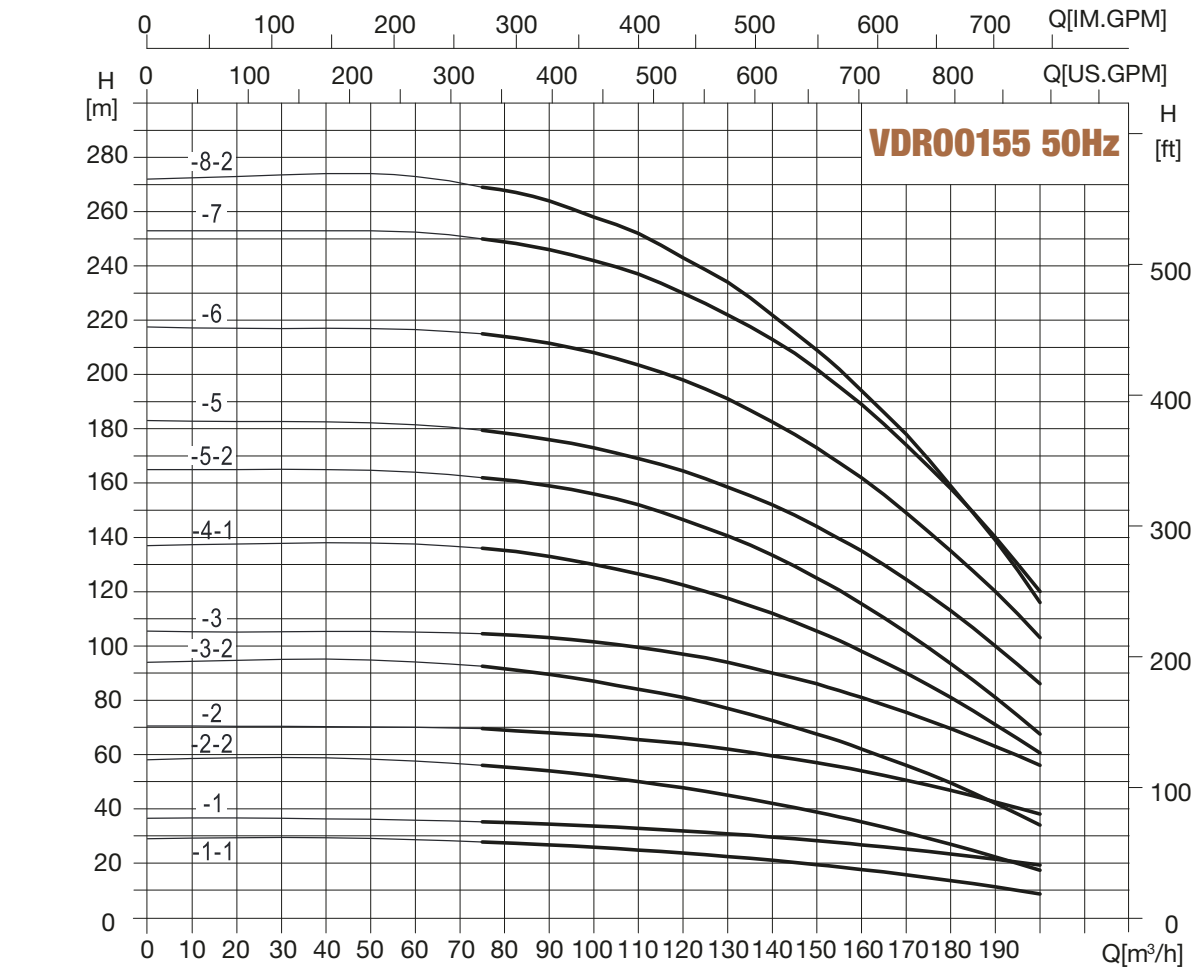
配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	75	90	100	110	120	130	140	150	155	160	170	180	190	200
	(kW)	(hp)															
VF/VX/VN155-1-1	11	15	H (m)	27.8	26.7	25.8	24.8	23.7	22.4	21	19.4	18.5	17.6	15.7	13.5	11.2	8.6
VF/VX/VN155-1	15	20		35.2	34.3	33.6	32.8	31.8	30.8	29.6	28.2	27.5	26.7	25.1	23.3	21.4	19.3
VF/VX/VN155-2-2	22	30		56	54	52.2	50	47.7	45	42	38.8	37	35.2	31.2	26.9	22.3	17.3
VF/VX/VN155-2	30	40		69.5	68	67	65.5	64	62	59.5	57	55.5	54	50.5	46.8	42.5	38
VF/VX/VN155-3-2	37	50		92.5	89.5	87	84	81	77	72.5	67.5	65	62	56	49.5	42	34
VF/VX/VN155-3	45	60		104.5	103	101.5	99.5	97	94	90	86	83.5	81	75.5	69.5	63	56
VF/VX/VN155-4-1	55	75		136	133	130	126.5	122.5	117.5	112	105.5	102	98	90	81	71	60.5
VX/VN155-5-2	75	100		162	159	156	152	146.5	140.5	133.5	125	120.5	115.5	105	93.5	81	67.5
VX/VN155-5	75	100		179.5	176	173	169	164.5	158.5	152	144	139.5	135	124.5	113	100	86
VX/VN155-6	90	120		215	211.5	208	203.5	198	191	182.5	173	167.5	162	149	135	120	103
VX/VN155-7	110	150		250	246	242	237	230	222	213	202	195.5	189	174	158	140	120
VX/VN155-8-2	110	150		269	264	258	252	243	234	222	209	202	194	178	159	139	116

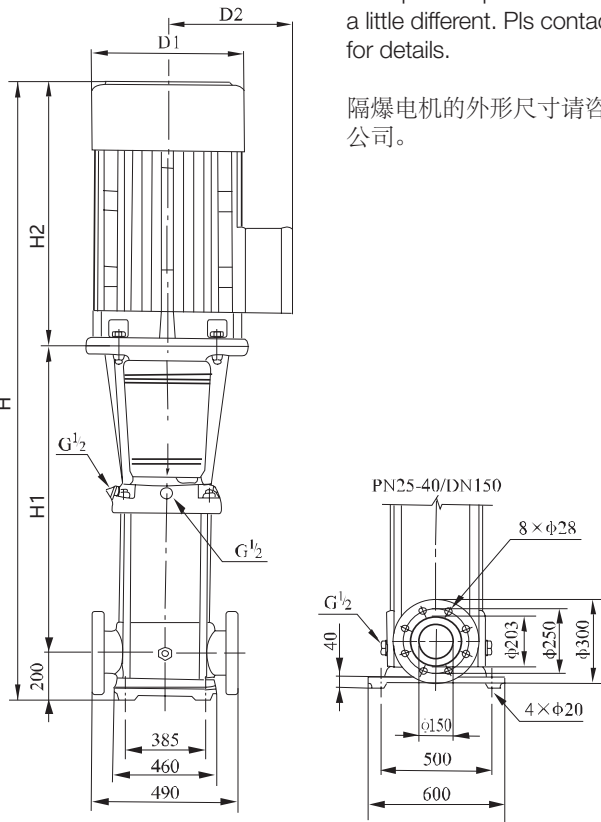
Performance curve ISO9906 Annex A.

性能曲线 ISO9906 Annex A.



VDR00210

Installation sketch 安装尺寸图



The overall dimensions of the an explosion-proof motor are a little different. Pls contact us for details.

隔爆电机的外形尺寸请咨询本公司。

Size and weight 尺寸和重量

Model 型号	Dimension [mm] 尺寸 [mm]					Weight 净重 (kg)
	H1	H2	H	D1	D2	
VF/AX/VN/VD210-1-B	707	544	1451	311	256	311
VF/AX/VN/VD210-1-A	707	580	1487	350	277	347
VF/AX/VN/VD210-1	707	652	1559	400	308	403
VF/AX/VN/VD210-2-2B	901	652	1753	400	308	447
VF/AX/VN/VD210-2-2A	901	697	1798	446	326	504
VF/AX/VN/VD210-2-A	931	770	1901	485	366.5	595
VF/AX/VN/VD210-2	931	770	1901	485	366.5	595
VF/AX/VN/VD210-3-2B	1125	835	2160	547	391	748
VF/AX/VN/VD210-3-A-B	1125	835	2160	547	391	748
VF/AX/VN/VD210-3-2A	1125	835	2160	547	391	748
VF/AX/VN/VD210-3-B	1125	835	2160	547	391	748
VF/AX/VN/VD210-3-A	1125	835	2160	547	391	748
VF/AX/VN/VD210-3	1125	885	2210	547	391	817
VF/AX/VN/VD210-4-2B	1319	885	2404	547	391	830
VF/AX/VN/VD210-4-2A	1319	1060	2579	620	533	1180
VF/AX/VN/VD210-4-A	1319	1060	2579	620	533	1180
VF/AX/VN/VD210-4	1319	1060	2579	620	533	1180

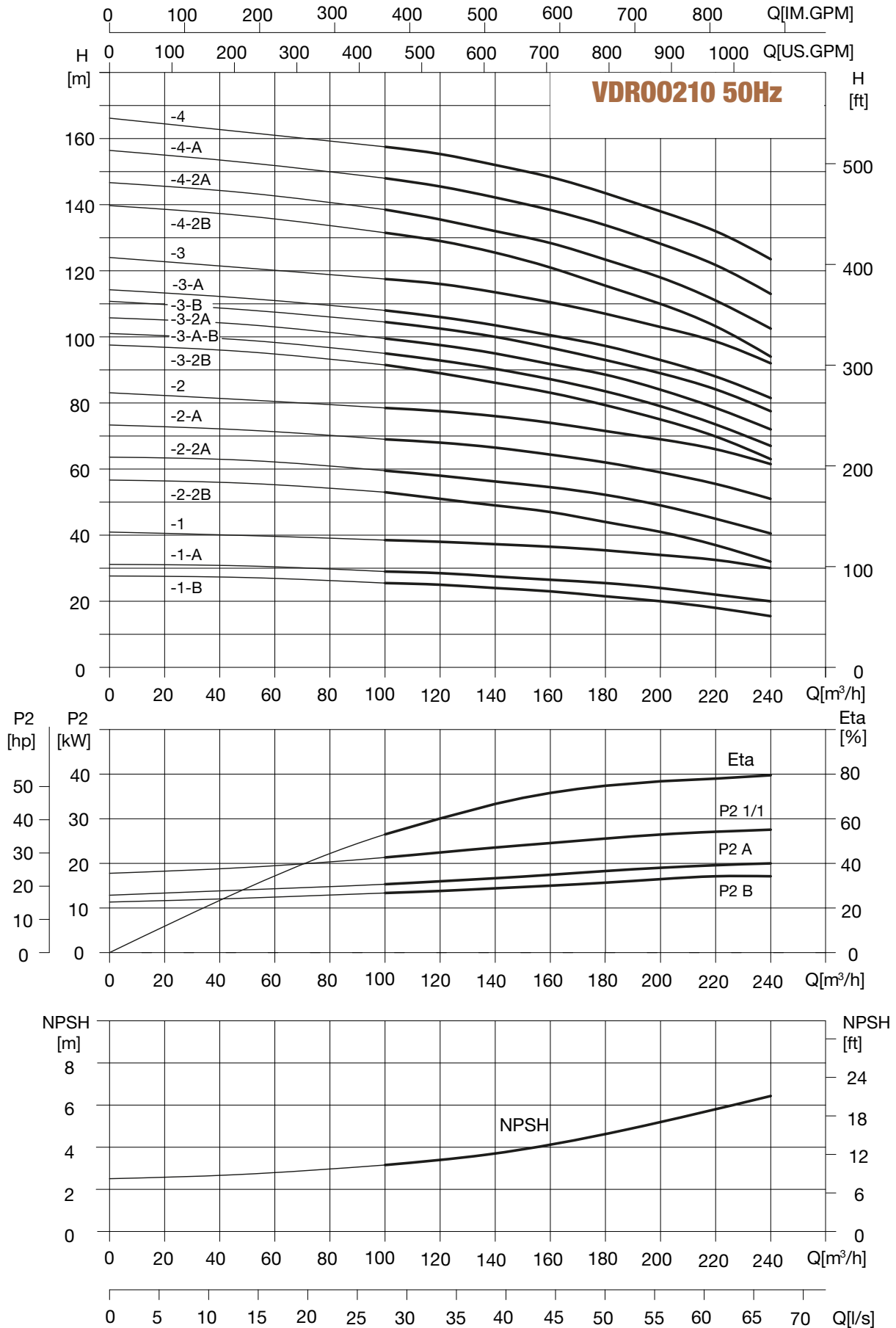
配不同品牌电机时，尺寸和重量略有出入，详情请咨询本公司。

Performance table 性能表

Model 型号	Motor 电机		Q (m³/h)	100	120	140	160	180	200	220	240
	(kW)	(hp)									
VF/AX/VN/VD210-1-B	18.5	25	H (m)	25.5	25	24	23	21.5	20	18	15.5
VF/AX/VN/VD210-1-A	22	30		29	28.5	27.5	26.5	25.5	24	22	20
VF/AX/VN/VD210-1	30	40		38.5	38	37.5	36.5	35	34	32.5	30
VF/AX/VN/VD210-2-2B	37	50		53	51	49	47	44	41	37	32
VF/AX/VN/VD210-2-2A	45	60		59.5	58	56	54	52.5	49	44.5	40.5
VF/AX/VN/VD210-2-A	55	75		69	68	66	64	62	59	55.5	51
VF/AX/VN/VD210-2	55	75		78.5	77.5	76	74	71.5	69	66	61.5
VF/AX/VN/VD210-3-2B	75	100		91.5	89	86.5	83.5	79	75	70	63
VF/AX/VN/VD210-3-A-B	75	100		95	93	90	87	83.5	79	73.5	67
VF/AX/VN/VD210-3-2A	75	100		99.5	97.5	94.5	91.5	89	84	78.5	72
VF/AX/VN/VD210-3-B	75	100		104.5	102.5	100	97	93	89	84.5	77.5
VF/AX/VN/VD210-3-A	75	100		108	106	103.5	100.5	97.5	93	88	81.5
VF/AX/VN/VD210-3	90	120		117.5	116	113.5	110.5	107	103	99	92
VF/AX/VN/VD210-4-2B	90	120		131.5	129	125.5	121	115.5	110	103.5	94
VF/AX/VN/VD210-4-2A	110	150		138.5	136	132	128	124	118	111	102.5
VF/AX/VN/VD210-4-A	110	150		148	145.5	142.5	138	134	128	122	113
VF/AX/VN/VD210-4	110	150		157.5	155.5	152.5	148	143.5	138	132.5	123.5

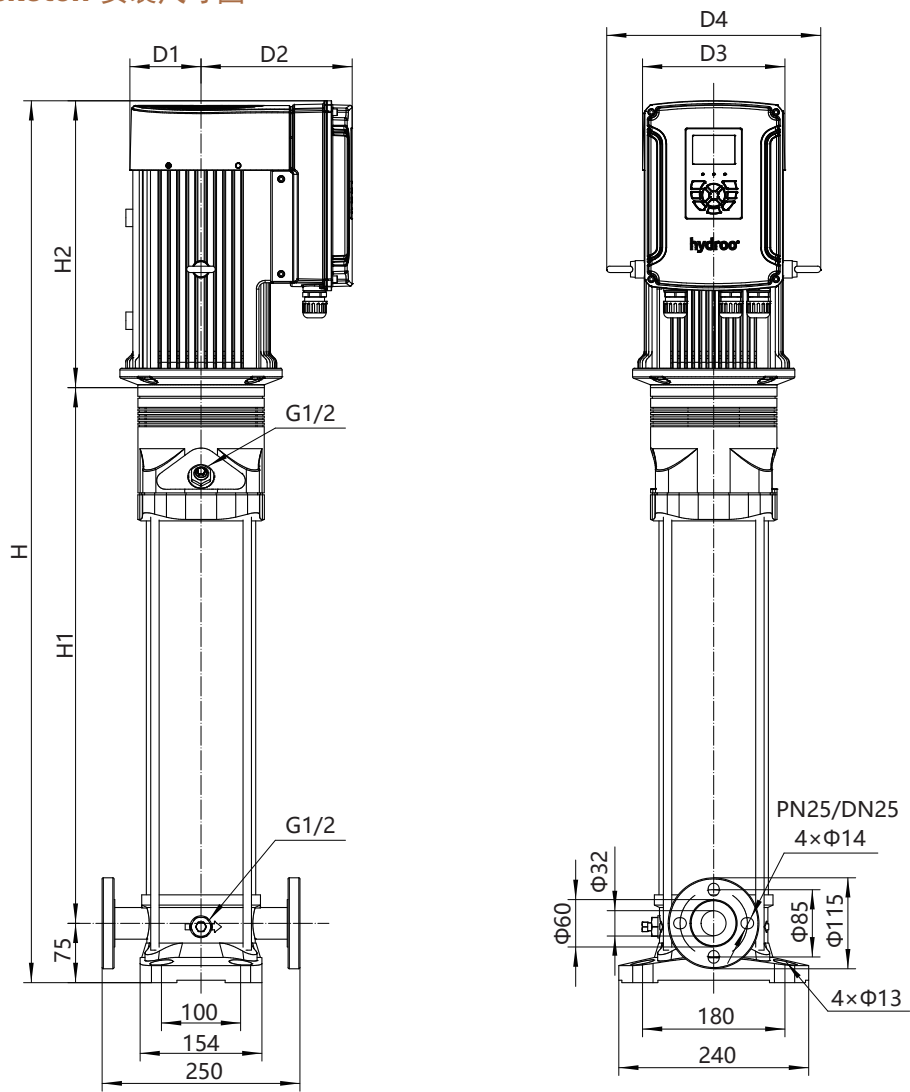
Performance curve ISO9906 Annex A.

性能曲线 ISO9906 Annex A.



VXE/VNE 3

Installation sketch 安装尺寸图



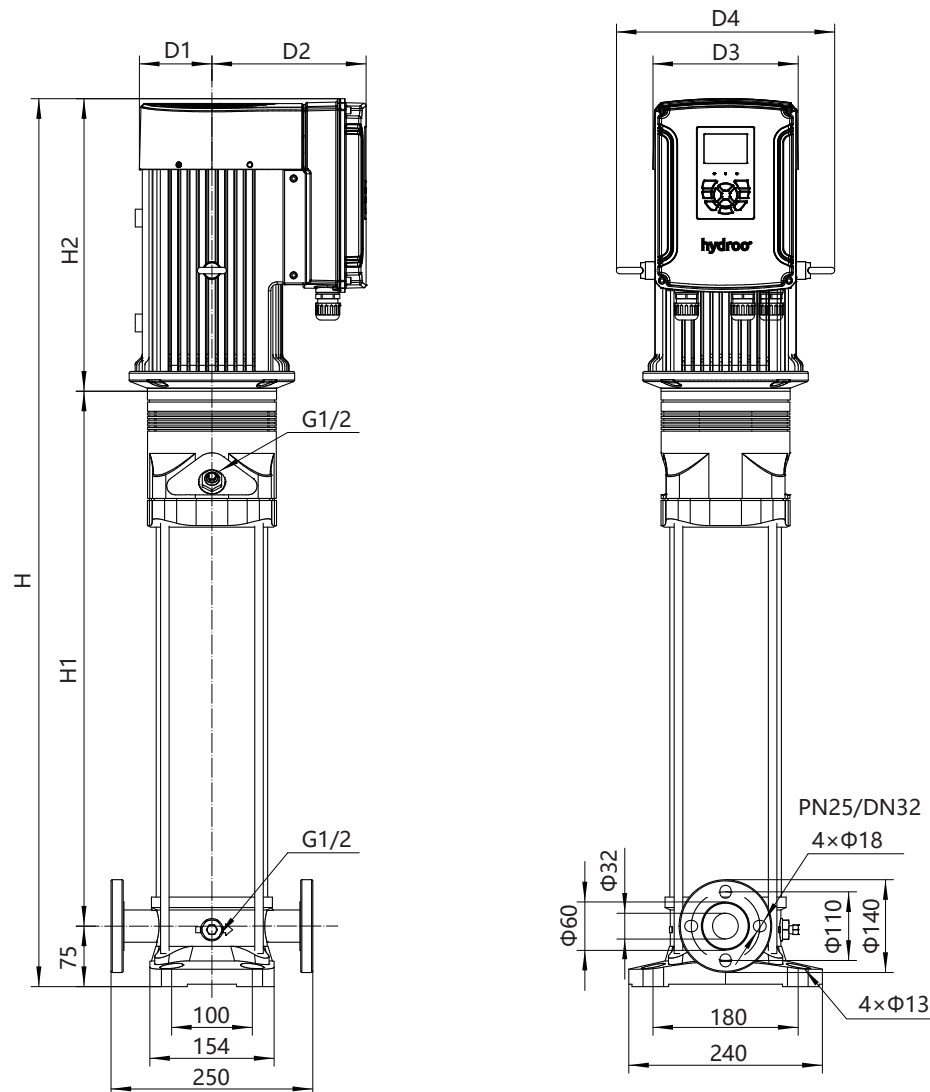
Size and weight 尺寸和重量

Model 型号	Power 功率 (kW)	Size 机座号	Dimension [mm] 尺寸 [mm]							Weight (kg) 净重(kg)	
			H1	H2	H	D1	D2	D3	D4	Bare shaft pump 泵体	VXE/VNE
VXE/VNE3-25	3	100	677	353	1105	95	191	205	272	24	45
VXE/VNE3-26	3	100	697	353	1125	95	191	205	272	24	45
VXE/VNE3-27	3	100	717	353	1145	95	191	205	272	25	46
VXE/VNE3-28	3	100	737	353	1165	95	191	205	272	25	46
VXE/VNE3-29	3	100	757	353	1185	95	191	205	272	25	46
VXE/VNE3-30	3	100	777	353	1205	95	191	205	272	26	47
VXE/VNE3-31	3	100	797	353	1225	95	191	205	272	26	47

变频泵性能见VDROO3性能表及性能曲线(第28和29页)。

VXE/VNE 5

Installation sketch 安装尺寸图



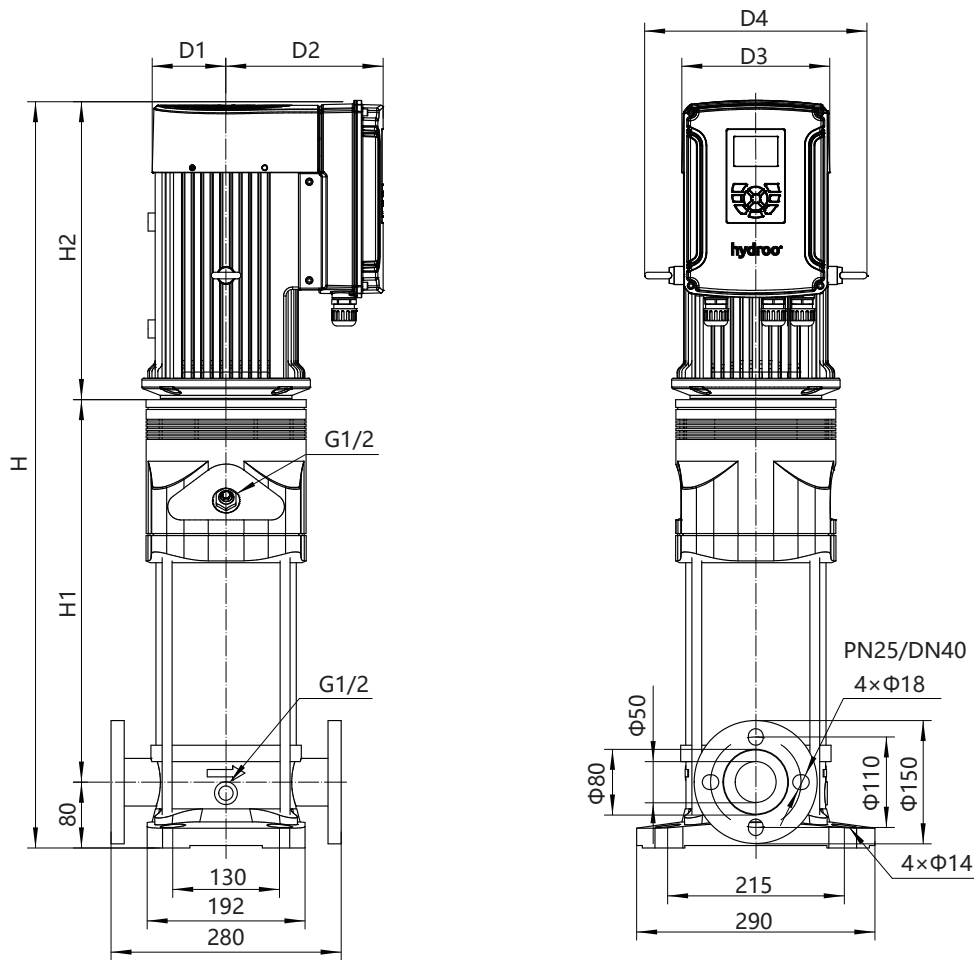
Size and weight 尺寸和重量

Model 型号	Power 功率 (kW)	Size 机座号	Dimension [mm] 尺寸 [mm]							Weight (kg) 净重(kg)	
			H1	H2	H	D1	D2	D3	D4	Bare shaft pump 泵体	VXE/VNE
VXE/VNE5-18	3	100	663	353	1091	95	191	205	272	21	42
VXE/VNE5-19	3	100	690	353	1118	95	191	205	272	22	43
VXE/VNE5-20	3	100	717	353	1145	95	191	205	272	23	44
VXE/VNE5-21	3	100	744	353	1172	95	191	205	272	23	44
VXE/VNE5-22	4	112	771	353	1199	95	191	205	272	24	46
VXE/VNE5-23	4	112	798	353	1226	95	191	205	272	24	46
VXE/VNE5-24	4	112	825	353	1253	95	191	205	272	25	47
VXE/VNE5-25	4	112	852	353	1280	95	191	205	272	25	47
VXE/VNE5-26	4	112	879	353	1307	95	191	205	272	26	48
VXE/VNE5-28	4	112	933	353	1361	95	191	205	272	26	48
VXE/VNE5-29	5.5	132	1035	353	1463	95	191	205	272	32	57
VXE/VNE5-30	5.5	132	1062	353	1490	95	191	205	272	33	58
VXE/VNE5-31	5.5	132	1089	353	1517	95	191	205	272	33	58
VXE/VNE5-33	5.5	132	1143	353	1571	95	191	205	272	34	59

变频泵性能见VDROO5性能表及性能曲线(第30和31页)。

VXE/VNE 10

Installation sketch 安装尺寸图



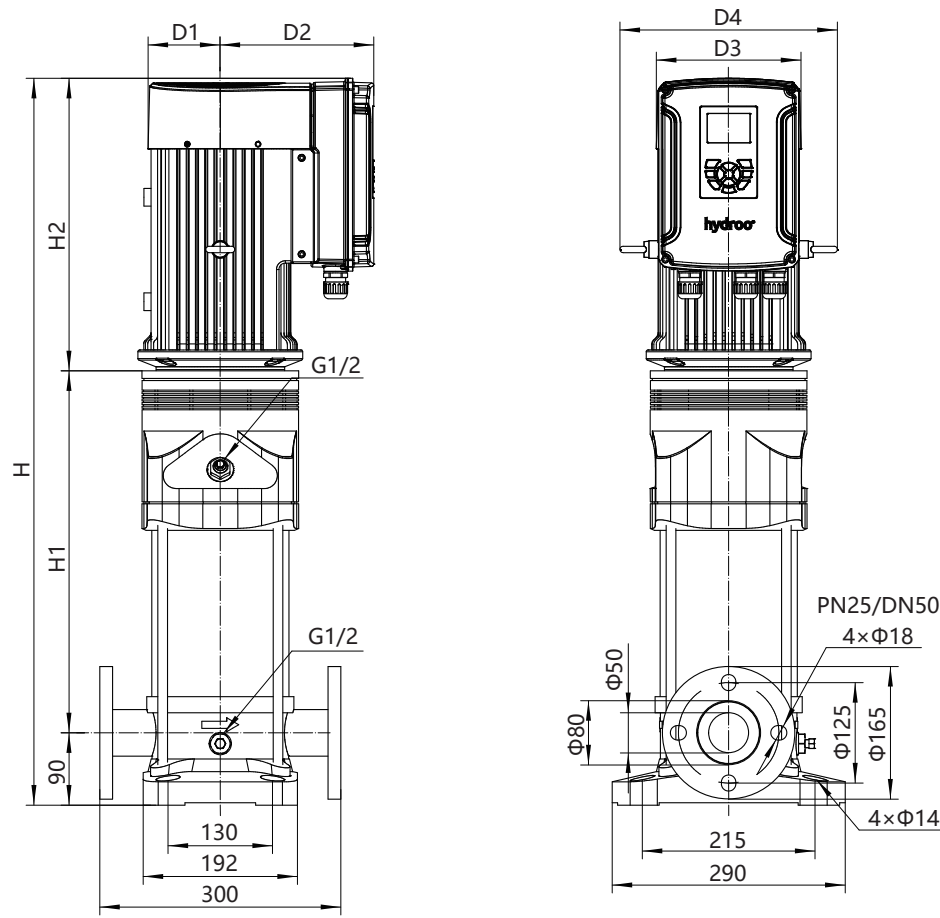
Size and weight 尺寸和重量

Model 型号	Power 功率 (kW)	Size 机座号	Dimension [mm] 尺寸 [mm]							Weight (kg) 净重(kg)	
			H1	H2	H	D1	D2	D3	D4	Bare shaft pump 泵体	VXE, VNE
VXE/VNE10-7	3	100	437	353	870	95	191	205	272	26	47
VXE/VNE10-8	3	100	467	353	900	95	191	205	272	27	48
VXE/VNE10-9	4	112	497	353	930	95	191	205	272	27	49
VXE/VNE10-10	4	112	527	353	960	95	191	205	272	28	50
VXE/VNE10-11	4	112	557	353	990	95	191	205	272	29	51
VXE/VNE10-12	5.5	132	665	353	1098	95	191	205	272	35	60
VXE/VNE10-13	5.5	132	695	353	1128	95	191	205	272	36	61
VXE/VNE10-14	5.5	132	725	353	1158	95	191	205	272	37	62
VXE/VNE10-15	5.5	132	755	353	1188	95	191	205	272	38	63
VXE/VNE10-16	7.5	132	785	353	1218	95	191	205	272	41	71
VXE/VNE10-17	7.5	132	815	353	1248	95	191	205	272	42	72
VXE/VNE10-18	7.5	132	845	353	1278	95	191	205	272	43	73
VXE/VNE10-19	7.5	132	875	353	1308	95	191	205	272	44	74
VXE/VNE10-20	7.5	132	905	353	1338	95	191	205	272	45	75
VXE/VNE10-21	7.5	132	935	353	1368	95	191	205	272	46	76
VXE/VNE10-22	11	160	995	455	1530	125	255	350	386	69	114

变频泵性能见VDROO10性能表及性能曲线(第32和33页)。

VXE/VNE 15

Installation sketch 安装尺寸图



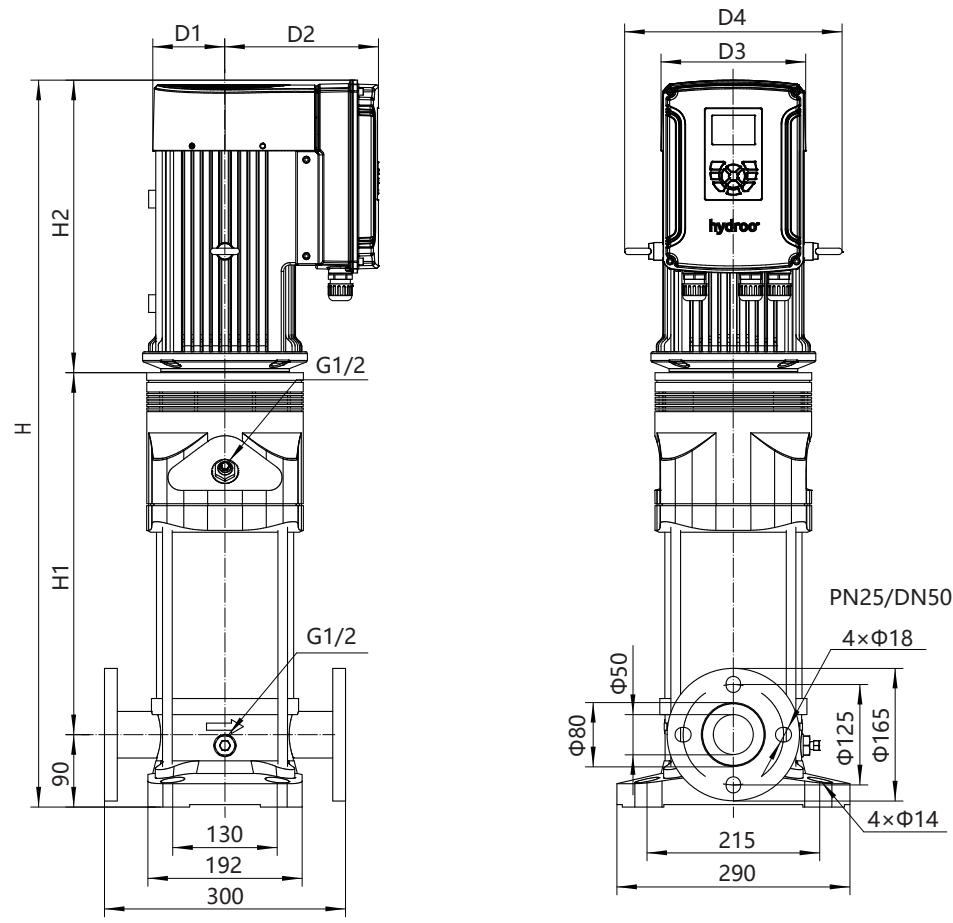
Size and weight 尺寸和重量

Model 型号	Power 功率 (kW)	Size 机座号	Dimension [mm] 尺寸 [mm]							Weight (kg) 净重(kg)	
			H1	H2	H	D1	D2	D3	D4	Bare shaft pump 泵体	VXE, VNE
VXE/VNE15-3	3	100	362	353	805	95	191	205	272	23	44
VXE/VNE15-4	4	112	407	353	850	95	191	205	272	23	45
VXE/VNE15-5	4	112	452	353	895	95	191	205	272	25	47
VXE/VNE15-6	5.5	132	575	353	1018	95	191	205	272	33	58
VXE/VNE15-7	5.5	132	620	353	1063	95	191	205	272	34	59
VXE/VNE15-8	7.5	132	665	353	1108	95	191	205	272	35	65
VXE/VNE15-9	7.5	132	710	353	1153	95	191	205	272	36	66
VXE/VNE15-10	11	160	785	455	1330	125	255	350	386	51	96
VXE/VNE15-11	11	160	830	455	1375	125	255	350	386	52	97
VXE/VNE15-12	11	160	875	455	1420	125	255	350	386	54	99
VXE/VNE15-13	11	160	920	455	1465	125	255	350	386	55	100
VXE/VNE15-14	11	160	965	455	1510	125	255	350	386	57	102
VXE/VNE15-15	15	160	1010	455	1555	125	255	350	386	67	129
VXE/VNE15-16	15	160	1055	455	1600	125	255	350	386	68	130
VXE/VNE15-17	15	160	1100	455	1645	125	255	350	386	69	131
VXE/VNE15-18	15	160	1145	455	1690	125	255	350	386	70	132

变频泵性能见VDROO15性能表及性能曲线(第34和35页)。

VXE/VNE 20

Installation sketch 安装尺寸图



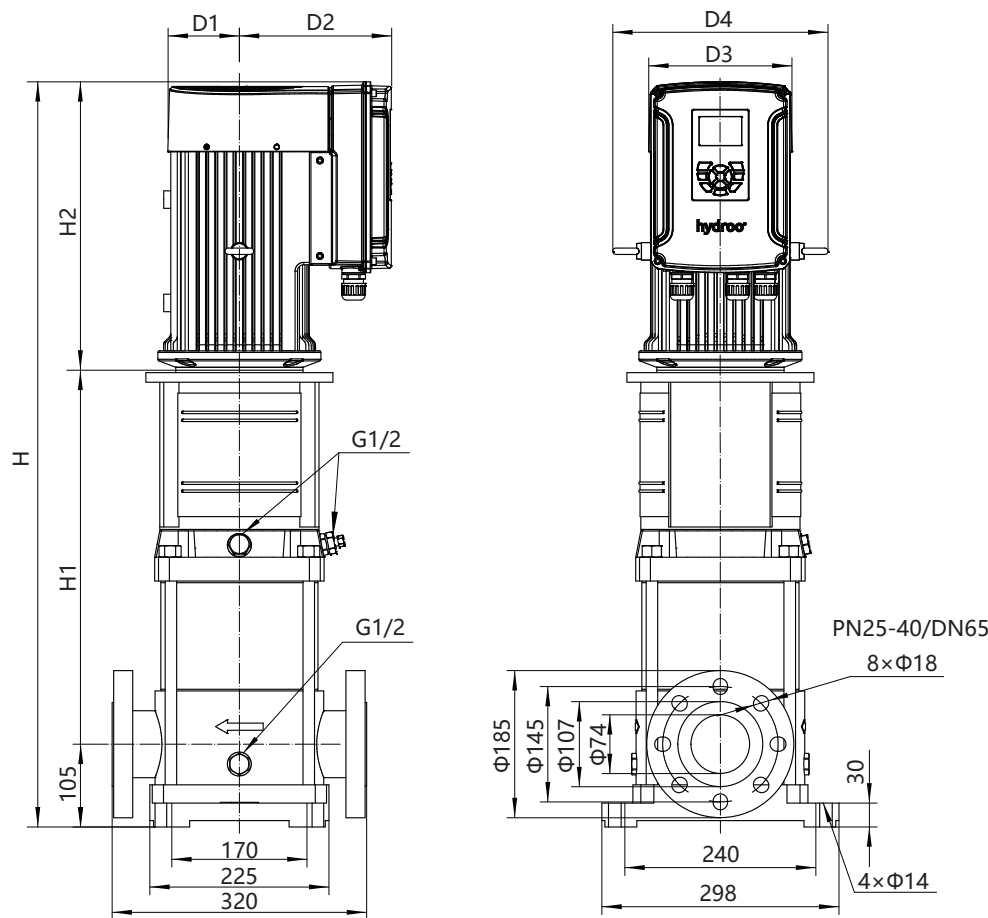
Size and weight 尺寸和重量

Model 型号	Power 功率 (kW)	Size 机座号	Dimension [mm] 尺寸 [mm]							Weight (kg) 净重 (kg)	
			H1	H2	H	D1	D2	D3	D4	Bare shaft pump 泵体	VXE, VNE
VXE/VNE20-3	4	112	362	353	805	95	191	205	272	23	45
VXE/VNE20-4	5.5	132	485	353	928	95	191	205	272	31	56
VXE/VNE20-5	5.5	132	530	353	973	95	191	205	272	33	58
VXE/VNE20-6	7.5	132	575	353	1018	95	191	205	272	36	66
VXE/VNE20-7	7.5	132	620	353	1063	95	191	205	272	37	67
VXE/VNE20-8	11	160	695	455	1240	125	255	350	386	61	106
VXE/VNE20-9	11	160	740	455	1285	125	255	350	386	62	107
VXE/VNE20-10	11	160	785	455	1330	125	255	350	386	64	109
VXE/VNE20-11	15	160	830	455	1375	125	255	350	386	73	135
VXE/VNE20-12	15	160	875	455	1420	125	255	350	386	74	136
VXE/VNE20-13	15	160	920	455	1465	125	255	350	386	76	138
VXE/VNE20-14	15	160	965	455	1510	125	255	350	386	77	139
VXE/VNE20-15	18.5	160	1010	475	1575	125	255	350	386	78	143
VXE/VNE20-16	18.5	160	1055	475	1620	125	255	350	386	79	144
VXE/VNE20-17	18.5	160	1100	475	1665	125	255	350	386	80	145

变频泵性能见VDROO20性能表及性能曲线（第36和37页）。

VXE/VNE 32

Installation sketch 安装尺寸图



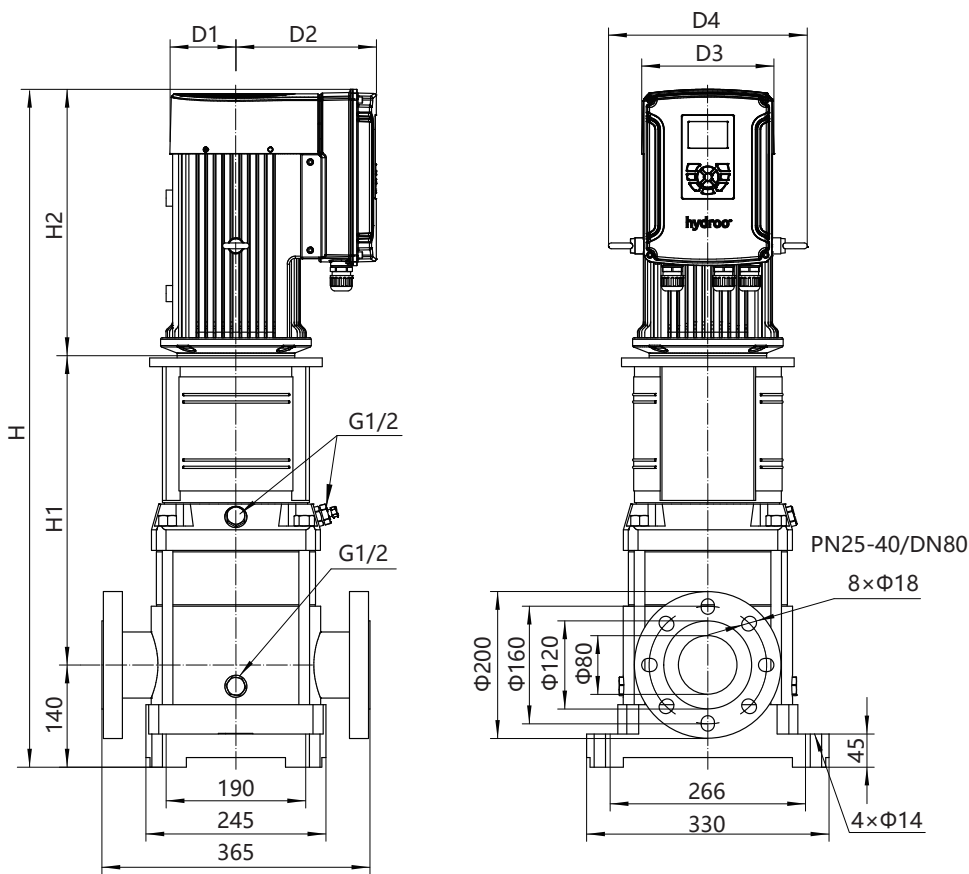
Size and weight 尺寸和重量

Model 型号	Power 功率 (kW)	Size 机座号	Dimension [mm] 尺寸 [mm]							Weight 净重(kg)	
			H1	H2	H	D1	D2	D3	D4	Bare shaft pump 泵体	VXE, VNE
VXE/VNE32-2-2	3	100	470	353	928	95	191	205	272	48	69
VXE/VNE32-2	4	112	470	353	928	95	191	205	272	49	71
VXE/VNE32-3-2	5.5	132	540	353	998	95	191	205	272	52	77
VXE/VNE32-3	5.5	132	540	353	998	95	191	205	272	52	77
VXE/VNE32-4-2	7.5	132	610	353	1068	95	191	205	272	54	84
VXE/VNE32-4	7.5	132	610	353	1068	95	191	205	272	54	84
VXE/VNE32-5-2	11	160	785	455	1345	125	255	350	386	82	127
VXE/VNE32-5	11	160	785	455	1345	125	255	350	386	83	128
VXE/VNE32-6-2	11	160	855	455	1415	125	255	350	386	85	130
VXE/VNE32-6	11	160	855	455	1415	125	255	350	386	87	132
VXE/VNE32-7-2	15	160	925	455	1485	125	255	350	386	91	153
VXE/VNE32-7	15	160	925	455	1485	125	255	350	386	92	154
VXE/VNE32-8-2	15	160	995	455	1555	125	255	350	386	94	156
VXE/VNE32-8	15	160	995	455	1555	125	255	350	386	95	157
VXE/VNE32-9-2	18.5	160	1065	475	1645	125	255	350	386	98	163
VXE/VNE32-9	18.5	160	1065	475	1645	125	255	350	386	98	163
VXE/VNE32-10-2	18.5	160	1135	475	1715	125	255	350	386	100	165
VXE/VNE32-10	18.5	160	1135	475	1715	125	255	350	386	101	166

变频泵性能见VDROO32性能表及性能曲线(第38和39页)。

VXE/VNE 45

Installation sketch 安装尺寸图



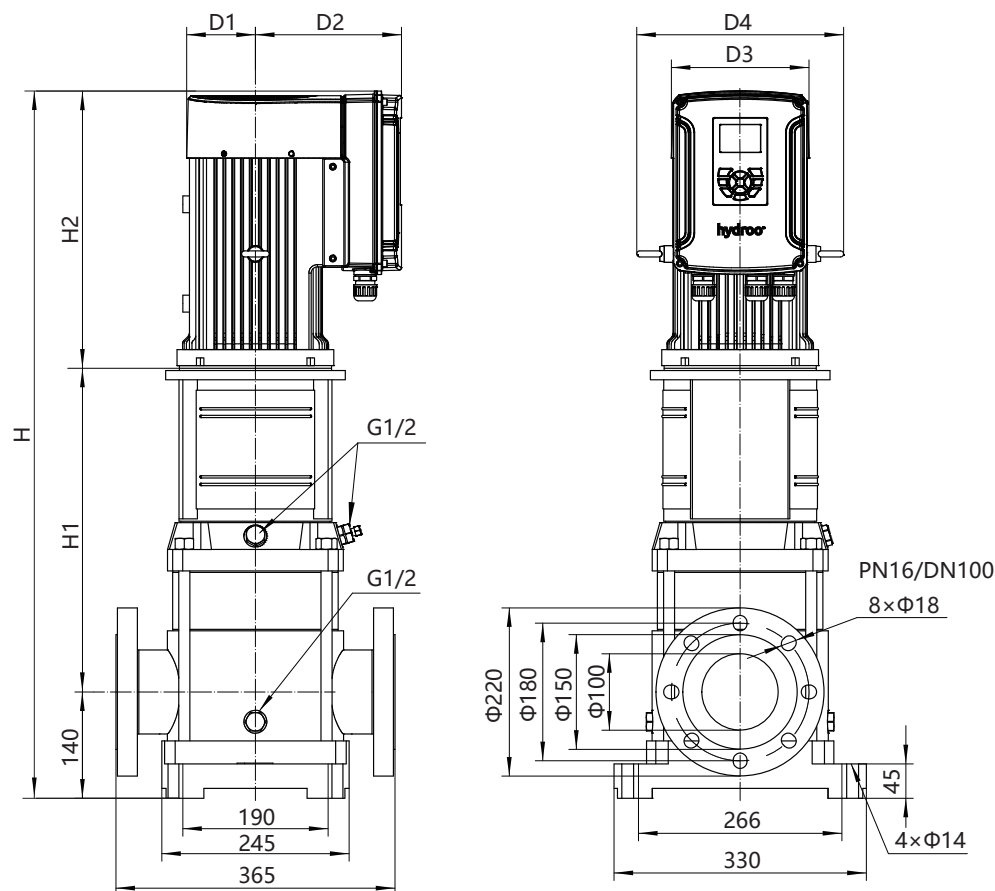
Size and weight 尺寸和重量

Model 型号	Power 功率 (kW)	Size 机座号	Dimension [mm] 尺寸 [mm]							Weight 净重(kg)	
			H1	H2	H	D1	D2	D3	D4	Bare shaft pump 泵体	VXE, VNE
VXE/VNE45-1-1	3	100	421	353	914	95	191	205	272	54	75
VXE/VNE45-1	4	112	421	353	914	95	191	205	272	54	76
VXE/VNE45-2-2	5.5	132	501	353	994	95	191	205	272	55	80
VXE/VNE45-2	7.5	132	501	353	994	95	191	205	272	55	85
VXE/VNE45-3-2	11	160	686	455	1281	125	255	350	386	84	129
VXE/VNE45-3	11	160	686	455	1281	125	255	350	386	84	129
VXE/VNE45-4-2	15	160	766	455	1361	125	255	350	386	90	152
VXE/VNE45-4	15	160	766	455	1361	125	255	350	386	90	152
VXE/VNE45-5-2	18.5	160	846	475	1461	125	255	350	386	91	153
VXE/VNE45-5	18.5	160	846	475	1461	125	255	350	386	91	153

变频泵性能见VDROO45性能表及性能曲线(第40和41页)。

VXE/VNE 65

Installation sketch 安装尺寸图



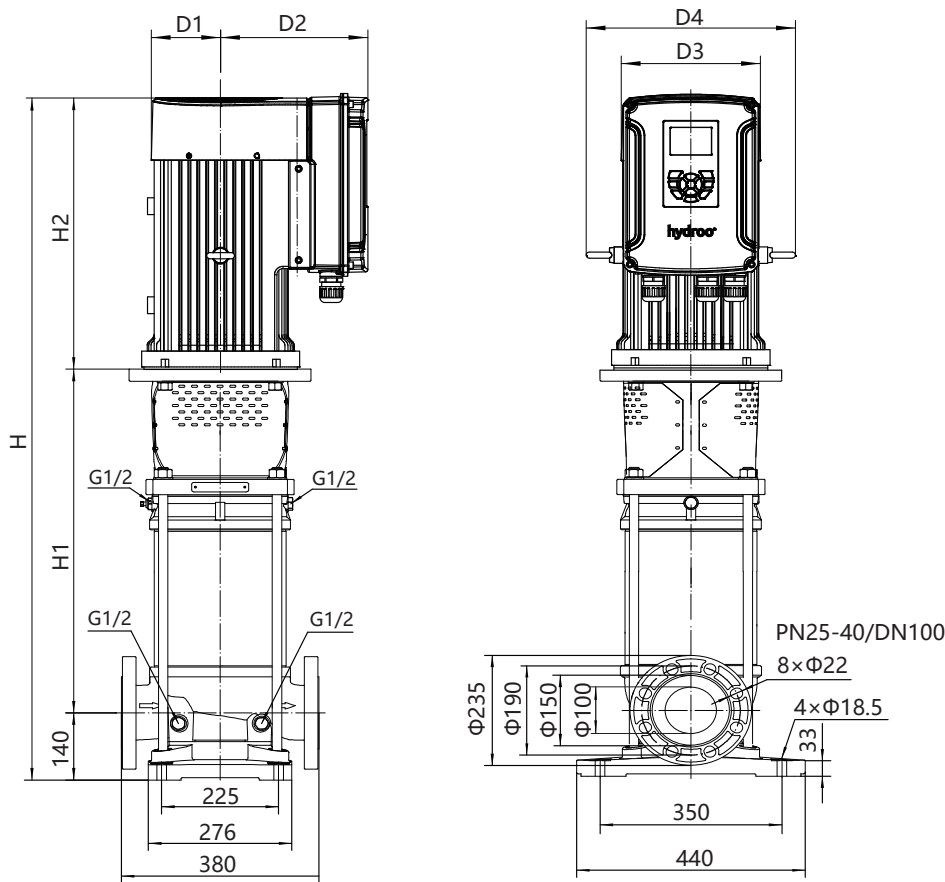
Size and weight 尺寸和重量

Model 型号	Power 功率 (kW)	Size 机座号	Dimension [mm] 尺寸 [mm]							Weight 净重 (kg)	
			H1	H2	H	D1	D2	D3	D4	Bare shaft pump 泵体	VXE, VNE
VXE/VNE65-1-1	4	112	421	353	914	95	191	205	272	55	77
VXE/VNE65-1	5.5	132	421	353	914	95	191	205	272	55	80
VXE/VNE65-2-2	7.5	132	504	353	997	95	191	205	272	56	86
VXE/VNE65-2-1	11	160	614	455	1209	125	255	350	386	83	128
VXE/VNE65-2	11	160	614	455	1209	125	255	350	386	83	128
VXE/VNE65-3-2	15	160	696	455	1291	125	255	350	386	89	151
VXE/VNE65-3-1	15	160	696	455	1291	125	255	350	386	90	152
VXE/VNE65-3	18.5	160	696	475	1311	125	255	350	386	91	156
VXE/VNE65-4-2	18.5	160	779	475	1394	125	255	350	386	94	159

变频泵性能见VDROO65性能表及性能曲线(第42和43页)。

VXE/VNE 95

Installation sketch 安装尺寸图



Size and weight 尺寸和重量

Model 型号	Power 功率 (kW)	Size 机座号	Dimension [mm] 尺寸 [mm]							Weight 净重(kg)	
			H1	H2	H	D1	D2	D3	D4	Bare shaft pump 泵体	VXE, VNE
VXE/VNE95-1-1	5.5	132	492	353	985	95	191	205	272	55	80
VXE/VNE95-1	7.5	132	492	353	985	95	191	205	272	56	86
VXE/VNE95-2-2	11	160	620	455	1215	125	255	350	386	82	127
VXE/VNE95-2	15	160	620	455	1215	125	255	350	386	85	147
VXE/VNE95-3-2	18.5	160	717	475	1332	125	255	350	386	87	152

变频泵性能见VDROO95性能表及性能曲线(第44和45页)。

Motor data 电机数据

Three-phase motors 三相电机 50Hz

Motor P ₂ 电机功率 [kW]	Frame size 机座号	Standard voltage 标准电压 [V]	I _{1/1} 额定电流 [A]	Cos φ 功率因数	η 效率 [%]	I _{start} 启动电流 [A]	Speed 转速	Efficiency class 能效等级	Protection class 防护等级	Insulation class 绝缘等级	Noise 噪声 LpA[dB(A)]
0.37	71	220△/380Y	1.7/1.0	0.81	70.0	9.3/5.5	2760	-	IP55	F	<47
0.55	71	220△/380Y	2.4/1.4	0.82	73.0	13.2/7.7	2760	-	IP55	F	<47
0.75	80	220△/380Y	3.0/1.7	0.82	80.7	21/11.9	2865	IE3	IP55	F	<50
1.1	80	220△/380Y	4.2/2.4	0.83	82.7	30.1/17.5	2870	IE3	IP55	F	<50
1.5	90	220△/380Y	5.6/3.2	0.84	84.2	42.6/24.3	2880	IE3	IP55	F	<56
2.2	90	220△/380Y	7.9/4.6	0.85	85.9	60/35	2880	IE3	IP55	F	<56
3	100	220△/380Y	10.4/6.0	0.87	87.1	81.1/46.8	2890	IE3	IP55	F	<62
4	112	380△	7.8	0.88	88.1	64.7	2900	IE3	IP55	F	<65
5.5	132	380△	10.6	0.88	89.2	88	2920	IE3	IP55	F	<67
7.5	132	380△	14.4	0.88	90.1	113.8	2920	IE3	IP55	F	<67
11	160	380△	20.6	0.89	91.2	166.9	2945	IE3	IP55	F	<69
15	160	380△	27.9	0.89	91.9	226	2945	IE3	IP55	F	<69
18.5	160	380△	34.2	0.89	92.4	280.4	2945	IE3	IP55	F	<69
22	180	380△	40.5	0.89	92.7	332	2955	IE3	IP55	F	<71
30	200	380△	54.9	0.89	93.3	417	2960	IE3	IP55	F	<71
37	200	380△	67.4	0.89	93.7	512	2960	IE3	IP55	F	<71
45	225	380△	80.8	0.90	94.0	622	2965	IE3	IP55	F	<73
55	250	380△	98.5	0.90	94.3	758	2970	IE3	IP55	F	<75
75	280	380△	134	0.90	94.7	951	2970	IE3	IP55	F	<77
90	280	380△	160	0.90	95.0	1136	2975	IE3	IP55	F	<77
110	315	380△	195	0.90	95.2	1384.5	2975	IE3	IP55	F	<80

Single-phase motors 单相电机 50Hz

Motor P ₂ 电机功率 [kW]	Frame size 机座号	Standard voltage 标准电压 [V]	I _{1/1} 额定电流 [A]	Cos φ 功率因数	η 效率 [%]	I _{start} 启动电流 [A]	Speed 转速	Efficiency class 能效等级	Protection class 防护等级	Insulation class 绝缘等级	Noise 噪声 LpA[dB(A)]
0.37	71	220	2.73	0.92	67	10	2800	-	IP55	F	<49
0.55	71	220	3.88	0.92	70	15	2800	-	IP55	F	<49
0.75	80	220	5.15	0.92	72	20	2800	-	IP55	F	<52
1.1	80	220	7.02	0.95	75	30	2800	-	IP55	F	<52
1.5	90	220	9.44	0.95	76	45	2800	-	IP55	F	<58
2.2	90	220	13.67	0.95	77	65	2800	-	IP55	F	<58

Permanent magnet synchronous motor 永磁同步电机 50Hz

Motor P ₂ 电机功率 [kW]	Frame size 机座号	Standard voltage 标准电压 [V]	I _{1/1} 额定电流 [A]	Rated torque 额定扭矩 [N·m]	η 效率 [%]	Max torque 最大扭矩 [N·m]	Speed 转速	Efficiency class 能效等级	Protection class 防护等级	Insulation class 绝缘等级	Noise 噪声 LpA[dB(A)]
3	100	380~440	5.8	9.5	91.1	10.5	3000	IE5	IP55	F	<62
4	112	380~440	7.6	11.8	91.8	12.95	3000	IE5	IP55	F	<65
5.5	132	380~440	10.8	17.5	92.6	19.26	3000	IE5	IP55	F	<67
7.5	132	380~440	13.5	23.9	93.3	26.26	3000	IE5	IP55	F	<67
11	160	380~440	22	36.2	94	39.8	3000	IE5	IP55	F	<69
15	160	380~440	29	49.4	94.5	54.3	3000	IE5	IP55	F	<69
18.5	160	380~440	35	60.9	94.9	67	3000	IE5	IP55	F	

Note: Noise vlues were measured with the 50Hz 2-pole motor running idle with a tolerance of 3 dB(A).

For different motor, the motor data will be different, please contact us or your motor supplier for more information.

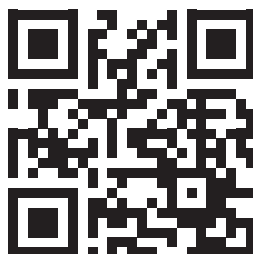
注：噪声值为50Hz 2极电机空载噪声，容差为 +3dB(A)。

不同品牌电机，参数会有不同，详情请咨询本公司或电机供应商。



**HYDROO
Pump Industries SL**

**Carrer La Banyeta Nova, 11
Polígon Industrial La Banyeta
17843 Palol de Revardit
Catalonia. Spain
Tel. +34 972 394 654
E-mail: info@hydroo.com
www.hydroo.com**



**HYDROO Pump Industries
(hangzhou) CO., LTD**

**浙江省杭州市临平经济技术开发区
邮编: 311199
电话: 400-855-3101
E-mail: sales@hydroochina.com
www.hydroochina.com**

HYDROO reserves the right to make the modification without prior notice.
All rights reserved worldwide.

数据仅供参考, 如有修改, 恕不另行通知。
本公司保留最终解释权。

P/N: 1050300002
Rev: BI/2024/08
subject to amendments

