

#### 特点

- 静音
- 无泄漏
- 免维护
- 高效节能
- 供水增压系统针对性设计

#### 应用领域

- 生活供水增压
- 供热/空调系统补水
- 清洗系统
- 水处理系统

#### 选型范围

- 流量: 0.7~240m<sup>3</sup>/h
- 扬程: 20~330m
- 功率: 0.37~110kW
- 口径: DN25~DN150

#### 工作条件

- 主要输送清水或物理化学性质类似于水的其它介质
- 输液温度: ≤150°C · 系统压力: ≤2.5MPa
- 特殊工况系统, 请联系天泉集团提供个性化定制

#### Features

- Silent
- No Leakage
- Maintenance-free
- High-efficiency
- Targeted design of water supply boosting system

#### Application

- Domestic water boosting
- Heating/air conditioning system water replenishment
- Cleaning system
- Water treatment system

#### Selection range

- Flow rate: 0.7~240m<sup>3</sup>/h
- Lift: 20~330m
- Power: 0.37~110kW
- Diameter: DN25~DN150

#### Working conditions

- Mainly transport clean water or other media with physical and chemical properties similar to water
- Infusion temperature: ≤150°C
- System pressure: ≤2.5MPa
- For special working conditions, please contact TQ Group for personalized customization

上海天泉泵业集团有限公司  
SHANGHAI TIANQUAN PUMP GROUP CO., LTD.

电子邮箱(Email): inquiry@tqpumps.com  
地址(Address): 上海市青浦区华新镇嘉松中路3568号35  
Jiasong Middle Road, Huaxin Town, Qingpu District, Shanghai  
邮编(Zip code): 201705  
网址 (Website) : www.shtqpumps.com

VIP LINE: 400-166-8686



关注天泉集团微信公众号  
获取更多信息



## Why choose

### TPD(F) silent shielded water supply boosting pump?

#### In the following situations, we recommend prioritizing this pump:

- The environment where low noise and low vibration is at a premium
- You don't want the pump to experience running, dripping, or leaking.
- You don't want frequent maintenance.

#### It provides you with the following immediate advantages:

- Pioneering a new era in silent water pumps, challenging your hearing
- Lifetime leak-proof guarantee, keeping the pump room clean and dry.
- Maintenance-free, easy to use.

## 为什么要选择

### TPD(F) 静音型屏蔽式供水增压专用泵?

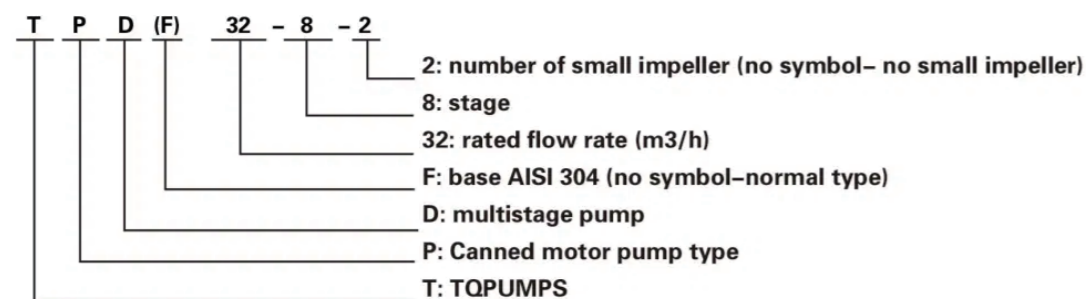
#### 在下列情况下，建议您优先选择：

- 环境对泵噪声和振动要求比较高。
- 不希望泵出现跑、冒、滴、漏现象。
- 不希望经常维护保养。

#### 她为您提供了以下立竿见影的优点：

- 开创水泵静音新纪元，挑战您的听觉。
- 终身滴水不漏，泵房干爽整洁。
- 无需维护保养，轻松使用。

## 型号说明Model Description



# / INDEX

结构及主要部件 Structure and main part .....	01
性能范围 Characteristic Range .....	03
进口及系统压力 Minimum Inlet Pressure.....	04
个性化选择 Personalization.....	05
安装方式 Installation.....	06
TPD(F)1系列 Series.....	07
TPD(F)3系列 Series.....	09
TPD(F)5系列 Series.....	11
TPD(F)10系列 Series.....	13
TPD(F)15系列 Series.....	15
TPD(F)20系列 Series.....	17
TPD(F)32系列 Series.....	19
TPD(F)45系列 Series.....	21
TPD(F)64系列 Series .....	23
TPD(F)90系列 Series .....	25
TPD(F)120系列 Series .....	27
TPD(F)150系列 Series.....	29
TPD(F)200系列 Series .....	31

## 产品概述 Product description:

TPD(F)静音型屏蔽式供水增压专用泵是针对目前市场上用于生活供水高扬程增压水泵普遍存在噪声过高、振动大、易漏水,而影响了人们正常的工作和生活环境的理想解决方案。因而对泵和电机进行了一体化设计,采用屏蔽式水冷电机和高效节能的泵体叶轮层叠式结构设计方案,把泵和电机制成一个密封整体,确保该泵静音、无泄漏、免维护和高效节能。

一方面:减去了普通水泵的主要易损件机械密封(轴封),从而彻底解决了水泵因机械密封(动密封)损坏而漏水的难题,因而使该泵滴水不漏,泵房干净整洁。

二方面:去掉了滚珠轴承和冷却风扇,采用水冷屏蔽电机。采用碳化硅材质制成的滑动轴承,具有摩擦系数小、自润滑性能好、高耐磨、用输送介质润滑,因而整机呈静音设计,低噪声运行,同时还省略了对轴承的定期加油和保养费用。

另外:水泵采用目前国际上最有效的水力设计,采用AIS1304 不锈钢冲压和激光焊接成型,使流道更光滑,水泵效率更高,使水泵电机功率显著降低。使水泵运行更加高效节能,且大大降低了水泵的投资成本。

TPD (F) silent shielded water supply booster pump is an ideal solution for the high-lift booster pumps currently used in the market for domestic water supply, which are generally too noisy, vibrate, and leak easily, affecting people's normal work and living environment. Therefore, the pump and motor are designed as an integrated whole, and a shielded water-cooled motor and a highly efficient and energy-saving pump body impeller stacked structure design are adopted to make the pump and motor into a sealed whole, ensuring that the pump is silent, leak-free, maintenance-free and highly energy-efficient.

On the one hand, the main vulnerable parts of ordinary water pumps, the mechanical seal (shaft seal), are removed, thus completely solving the problem of water pumps leaking due to damage to the mechanical seal (dynamic seal), so that the pump is leak-proof and the pump room is clean and tidy. On the other hand, the ball bearings and cooling fans are removed, and a water-cooled shielded motor is adopted. The sliding bearing made of silicon carbide has a small friction coefficient, good self-lubricating performance, high wear resistance, and is lubricated with the conveying medium. Therefore, the whole machine is designed to be silent and run with low noise. At the same time, the regular refueling and maintenance costs of the bearings are omitted. In addition, the water pump adopts the most efficient hydraulic design in the world. It adopts AIS1304 stainless steel stamping and laser welding to make the flow channel smoother, the water pump efficiency is higher, and the water pump motor power is significantly reduced. Make the water pump operation more efficient and energy-saving, and greatly reduce the investment cost of the water pump.

## 主要零件材质 Main Components and Material

Item	Bearing Bas	Machine Base	Shaft	Bearing	Thrust plate, Shaft Sleeve	Shielding sleeve	Support	Pump Head	Impeller	Guide vanes	Pressure tube	Water inlet and outlet base	
Material	TPD	Cast Iron HT200	Cast Iron HT200	Steel 14Cr17Ni2	SIC	AIS1304 Spraying Stellite alloy	AIS1304	Cast Iron HT200	Cast Iron HT200	AIS1316	AIS/31	AIS1304	Cast Iron HT200
	TPDF	Cast Iron HT200	Cast Iron HT200	Steel 14Cr17Ni2	SIC	AIS1304 Spraying Stellite alloy	AIS1304	Cast Iron HT200	Cast Iron HT200	AIS1316	AIS1316	AIS1304	AIS1304

备注:零件材质可根据用户需要进行选配,详情咨询天泉集团。Note: The material of parts can be selected according to user needs. Please consult TQ Group for details.

## 产品特点 Features

### 特点1: 确保无泄漏 Feature 1: Ensure no leakage

电机与泵一体化设计,取消机械密封  
Integrated design of motor and pump, eliminating mechanical seal

采用屏蔽式水冷变频电机,进行泵机一体设计方案,使水泵与电机构成一个密封整体。从而取消易磨损且价格昂贵的机械密封,则真正使泵做到整体完全无泄漏。既避免了水资源的浪费,又使泵房干净整洁,大大改善了泵房的工作环境。

The shielded water-cooled variable frequency motor is adopted, and the pump-machine integrated design is adopted, so that the water pump and the motor form a sealed whole. Thus, the mechanical seal that is easy to wear and expensive is eliminated, and the pump is truly completely leak-free. It not only avoids the waste of water resources, but also makes the pump room dry and tidy, greatly improving the working environment of the pump room.

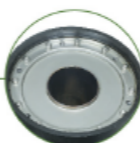


### 特点2: 杜绝介质腐蚀 Feature 2: Eliminate medium corrosion

定子与转子采用不锈钢封焊  
The stator and rotor are sealed with stainless steel

电机定子与转子采用优质不锈钢屏蔽套完全封焊,使定子绕组和转子铁芯与介质完全隔离,不会受到介质侵蚀。

The motor stator and rotor are completely sealed and welded with high-quality stainless steel shielding sleeves, so that the stator winding and rotor core are completely isolated from the medium and will not be corroded by the medium.

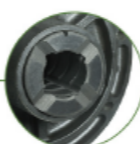


### 特点3: 无需维护保养 Feature 3: No maintenance required

自润滑性的石墨滑动轴  
Self-lubricating graphite sliding bearing

实验证明一般在相同转速和相同加工精度下碳化硅滑动轴承所产生的噪声只相当于滚珠轴承的30%;采用硬度仅次于金刚石的碳化硅轴承具有耐高温、耐摩擦和耐腐蚀的特点,使用寿命长,并且轴承利用所输送的介质进行自润滑无需人工加油,降低了维护成本。

Experiments have shown that the noise generated by silicon carbide sliding bearings is only 30% of that of ball bearings at the same speed and processing accuracy. Silicon carbide bearings, which are second only to diamond in hardness, are resistant to high temperatures, friction and corrosion, have long service life, and the bearings use the conveyed medium for self-lubrication without manual oiling, reducing maintenance costs.



### 特点4: 高耐磨 Feature 4: High wear resistance

"司太立Ni60硬质合金堆焊"技术  
"Stellite Ni60 hard alloy surfacing" technology

轴套与推力板的摩擦面采用"司太立Ni60硬质合金堆焊"技术,形成高耐磨的摩擦副,安全耐用。  
The friction surface between the sleeve and the thrust plate adopts the "Stellite Ni60 hard alloy surfacing" technology to form a highly wear-resistant friction pair that is safe and durable.



### 特点5: 静音设计, 抗过载 Feature 5: Quiet design, anti-overload

定、转子冷轧片模压成型, H级绝缘  
Stator and rotor cold-rolled sheet molded, H-class insulation

定、转子采用高品质冷轧硅钢片模压成型,结合优秀的电磁优化静音设计技术,使电机的噪声更加降低;绕组采用H级耐高温绝缘,使电机的允许温升K值更高。可有效防止因水泵运行过载对电机造成的损坏,大大延长了电机的使用寿命及可靠性。

The stator and rotor are molded with high-quality cold-rolled silicon steel sheets, combined with excellent electromagnetic optimization and silent design technology, which further reduces the noise of the motor; the winding adopts H-level high-temperature resistant insulation, which makes the allowable temperature rise K value of the motor higher. It can effectively prevent the damage to the motor caused by overload of the water pump operation, and greatly extend the service life and reliability of the motor.



### 特点6: 超静音设计, 出乎您的想象 Feature 6: Ultra-quiet design, beyond your imagination

湿转子、水冷变频电机, 静音设计  
Wet rotor, water-cooled variable frequency motor, quiet design

采用屏蔽式水冷变频电机后,取消了水泵的一个主要噪声,源于高速冷却风扇,同时转子、轴承等所有转动部件外围充满水,产生的声音经过水的阻隔进一步降低。

The use of a shielded water-cooled variable frequency motor eliminates a major noise of the water pump, which comes from the high-speed cooling fan. At the same time, the periphery of all rotating parts such as the rotor and bearings is filled with water, and the sound generated is further reduced by the water barrier.



### 特点7: 适合各种户外环境 Feature 7: Suitable for various outdoor environments

全密封IP55防护等级, 从容应对室外安装  
Fully sealed with IP55 protection level, easy to handle outdoor installation

采用高分子材料制成的专利技术全密封防护接线盒,能有效保证电机全密封性。具光照、冷热、风雨、细菌等良好的耐候性,可使电泵从容应对室外安装环境。

The patented fully sealed protective junction box made of polymer material can effectively ensure the full sealing of the motor. It has good weather resistance to light, heat, cold, wind, rain, bacteria, etc., allowing the electric pump to calmly cope with outdoor installation environments.



### 特点8: 高效节能 Feature 8: High efficiency and energy saving

高效水力、层叠式设计  
High efficiency hydraulic and cascading design

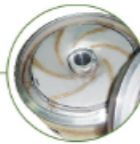
水泵采用目前国际上最有效的水力设计,水泵效率更高,配用电机功率显著降低。水泵采用目前国际上最有效的水力设计,水泵效率更高,配用电机功率显著降低。The water pump is more efficient and the motor power is significantly reduced.



### 特点9: 经久耐用 Feature 9: Durable

冲压件"激光焊接"工艺  
Laser welding process for stamping parts

所有冲压成型部件均采用"激光焊接"工艺技术,不仅部件更加安全牢固,且高效节能。All stamping parts are assembled using the "laser welding" process technology, which not only makes the parts safer and stronger, but also more efficient and energy-saving.

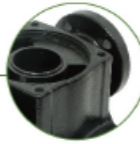


### 特点10: 历久弥新 Feature 10: Timeless and new

"阴极电泳涂装"技术  
"Cathode cathaphoretical coating" technology

电泵零部件采用"阴极电泳涂装"工艺,大大提高水泵零部件的抗锈蚀能力,有效延长水泵的使用寿命2~3倍,且生产和使用过程更加节能环保。

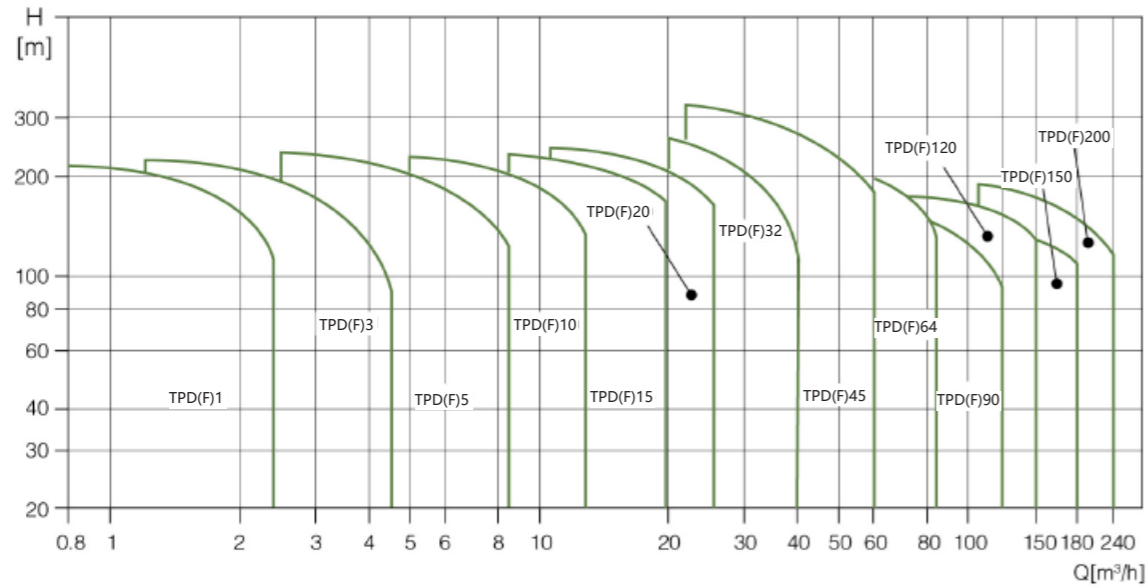
The electric pump parts adopt the "cathode cathaphoretical coating" process, which greatly improves the corrosion resistance of the pump parts, effectively prolongs the service life of the pump by 2 to 3 times, and makes the production and use process more energy-saving and environmentally friendly.





# PERFORMANCE SCOPE 性能范围

性能范围 Hydralce Coverage TPD(F),2P, 2900RPM,50Hz



产品范围 Characteristic Range

范围 (Range)	TPD (F) 1	TPD (F) 3	TPD (F) 5	TPD (F) 10	TPD (F) 15	TPD (F) 20	TPD (F) 32	TPD (F) 45	TPD (F) 64	TPD (F) 90	TPD (F) 120	TPD (F) 150	TPD (F) 200
名义流量 Flow [m³/h]	1	3	5	10	15	20	32	45	TPD (F) 64	90	120	150	200
流量范围 Flow Range [m³/h]	0.7~2.4	1.2~4.5	2.5~8.5	5~13	9~24	11~29	15~40	22~58	30~85	45~120	60~160	75~180	100~240
最大压力 Max.pressure [m]	220	240	240	220	230	250	280	330	220	200	160	160	160
电机功率 Motor Power	0.37~2.2	0.37~3	0.37~5.5	0.37~7.5	0.9~13	1.1~18.5	1.5~30	3~45	3.7~45	5.5~45	11~70	11~70	18.5~110
温度范围 Temperature Range [°C]	-20至+150												
最高效率 Highest efficiency [%]	48	58	66	70	72	72	78	79	80	81	75	72	79
类型 Type													
TPD	•	•	•	•	•	•	•	•	•	•	•	•	•
TPDF	•	•	•	•	•	•	•	•	•	•	•	•	•
管路接口 Pipeline Connector													
DIN法兰 Flange	DN25	DN25	DN32	DN40	DN50	DN50	DN65	DN80	DN100	DN100	DN125	DN125	DN150



# IMPORT AND 进口及系统压力

## SYSTEM PRESSURE

进口压力 Inlet pressure

下表标明了泵的最小进口压力与最大进口压力。实际运行中，泵进口压力 + 泵的关死点压力必须 < 系统压力

The following table indicates the minimum and maximum inlet pressures of the pump. In actual operation, the pump inlet pressure + the pump dead point pressure must be ≤ the system pressure.

型号 Type	P[MPa] 系统压力 System pressure	
TPD(F)1系列 Series		
1-2→1-36	0.02	1
TPD(F)3系列 Series		
3-2→3-29	0.02	1
3-31→3-36	0.02	1.5
TPD(F)5系列 Series		
5-2→5-16	0.02	1
5-18→5-36	0.02	1.5
TPD(F)10系列 Series		
10-1→10-6	0.01	0.8
10-7→10-22	0.02	1
TPD(F)15系列 Series		
15-1→15-3	0.01	0.8
15-4→15-17	0.02	1
TPD(F)20系列 Series		
20-1→20-3	0.01	0.8
20-4→20-17	0.02	1
TPD(F)32系列 Series		
32-1-1→32-4	0.02	0.4
32-5-2→32-10	0.02	1
32-11→32-14	0.03	1.5
TPD(F)45系列 Series		
45-1-1→45-2	0.02	0.4
45-3-2→45-5	0.02	1
45-6-2→45-13-2	0.03	1.5
TPD(F)64系列 Series		
64-1-1→64-2-2	0.02	0.4
64-2-1→64-4-2	0.02	1
54-4-1→64-8-1	0.03	1.5
TPD(F)90系列 Series		
90-1-1→90-1	0.02	0.4
90-2-2→90-3-2	0.02	1
90-3→90-6	0.02	1.5
TPD(F)120系列 Series		
120-1→120-2-1	0.02	1
120-2→120-5-1	0.03	1.5
120-6-1→120-7	0.03	2
TPD(F)150系列 Series		
150-1-1→150-2-2	0.02	1
150-2-1→150-4-1	0.03	1.5
150-4→150-6	0.03	2
TPD(F)200系列 Series		
200-1-B	0.02	1
200-1-A→200-2-2A	0.02	1.5
200-2-A→200-4	0.03	2

系统压力 System pressure

型号 Type	P[MPa] 系统压力 System pressure
TP D(F)1系列 Series	2.5
TPD(F)3系列 Series	2.5
TPD(F)5系列 Series	2.5
TPD(F)10系列 Series	2.5
10-1 → 10-16	2.5
10-17→10-22	2.5
TPD(F)15系列 Series	
15-1 → 15-10	1.6
15-12→15-17	2.5
TPD(F)20系列 Series	
20-1 →20-10	1.6
20-12→20-17	2.5
TPD(F)32系列 Series	
32-1-1→32-7	1.6
32-8-2→32-14	3
TPD(F)45系列 Series	
45-1-1→45-5	1.6
45-6-2→45-11	3
45-12-2→45-13-2	3.3
TPD(F)64系列 Series	
64-1-1 →64-5	1.6
64-6-2→64-8-1	3
TPD(F)90系列 Series	
90-1-1→90-4	1.6
90-5-2→90-6	3
TPD(F)120系列 Series	3
TPD(F)150系列 Series	3
TPD(F)200系列 Series	3

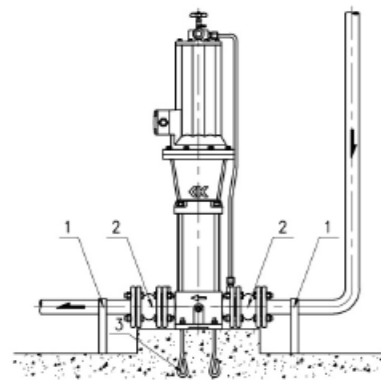
# INSTALLATION 安装方式

## 机房

- 位置：安装在地下室、地面或屋顶。
- 通风：通风不良将导致机房潮湿而腐蚀电泵。·排水：保持设备基础处于机房较高位置。
- 温度：控制在5°C以上(环境最高温度没有限制),过低则在电泵 停机时会造成管路冻裂。
- 湿度：控制在85%以下,过高将影响电气绝缘。
- 设备维护空间：前、后、左、右侧应留有≥500mm的维护空间,上侧应留有≥1500mm的维护空间。

## 基础

- 基础高度应不低于200mm,基础尺寸详情请参见P8-P32页相应规格水 泥基础尺寸
- 基础必须平整结实,确保不会下沉或超载(设备置于楼顶)
- 地脚螺栓：根据机组底座安装尺寸预埋地脚螺栓或装膨胀螺栓。
- 硬性安装：为避免因水泥基础的局部不平整造成的振动,在机组底 座和水泥基础间可选装橡胶减振垫(非减振器)以补偿不平整 度。
- 柔性安装：电泵应安装在平坦、坚固的混凝土底座上,这是减振 的最佳解决方案。混凝土底座的重量应为电泵整机重量的1.5倍以上。(混凝土底座尺寸可自行计算,混凝土密度取2400kg/m<sup>3</sup>)



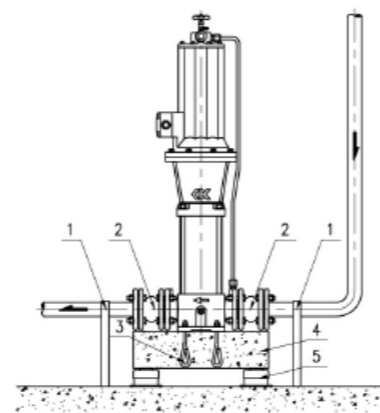
硬性安装示意图  
Schematic diagram of rigid installation

## Pump room

- Location: The pump room should be installed in the basement, on the ground floor, or on the roof.
- Ventilation: Poor ventilation will cause the machine room to be damp and corrode the pump.
- Drainage: Keep the equipment foundation at a higher position in the pump room.
- Temperature: Maintain the temperature above 5°C (there is no limit to the maximum ambient temperature), as low temperatures can cause pipe cracking when the pump is shut down.
- Humidity: Keep the humidity below 85%, as high humidity can affect electrical insulation.
- Equipment maintenance space: Leave at least ≥500mm maintenance space on the front, back, left and right sides, and ≥1500mm maintenance space on the upper side.

## Foundation

- The foundation height should not be less than 200mm. For specific dimensions, please refer to pages 8-32 for the corresponding specifications.
- The foundation must be level and compacted to prevent settling or overloading (in case the equipment is placed on the rooftop).
- Anchor bolts: Pre-embed anchor bolts or install expansion bolts according to dimensions of the unit base
- Rigid installation: To avoid vibration caused by uneven cement foundation, a rubber vibration-damping pad (not a damper) can be optionally installed between the unit base and the cement foundation to compensate for the unevenness.
- Flexible installation: The electric pump should be installed on a flat, solid concrete base, which is the best solution for vibration reduction. The weight of the concrete baseshould be at least 1.5 times the total weight of the pump unit.. (The size of the concrete base can be calculated independently and the concrete density is 2400kg/m<sup>3</sup>)



柔性安装示意图  
Schematic diagram of flexible installation

## 管路系统

- 在水泵的泵体上标明有水流的方向。
- 与电泵连接的管道尺寸必须大于或等于电泵进、出口直径。·管道必须固定,不能受力在电泵上。
- 为了减少管路噪音、振动和变形,应在电泵的入口和出口各装一个橡胶软接头。



伸缩挠性接头 flexible joint

## Pipeline system

- The direction of rotation is clearly marked on the pump body.
- The size of the pipe connected to the electric pump must be greater than or equal to the inlet and outlet diameter of the electric pump.
- The pipe must be fixed and should not exert force on the electric pump.
- to reduce pipeline noise, vibration and deformation, it is recommended to install a rubber flexible joint at the inlet and outlet of the electric pump.

## Electrical installation

- The electrical control cabinet can be installed with the water pump as per user requirements, or it can be placed in the centralized control area of the electrical system.
- During variable frequency operation, it is advised to keep the distance between the VFD and the motor within 20 meters.
- Electrical installation must be carried out by certified personnel designated by the state.

## 电气安装

- 电气控制柜可以根据用户需要而选择是否与水泵安装在一起,也可安装于电气系统集中控制区。
- 变频运行时建议变频器与电机距离控制在20米内。电气安装必须由国家规定持证人员进行安装。

## 特别提醒:

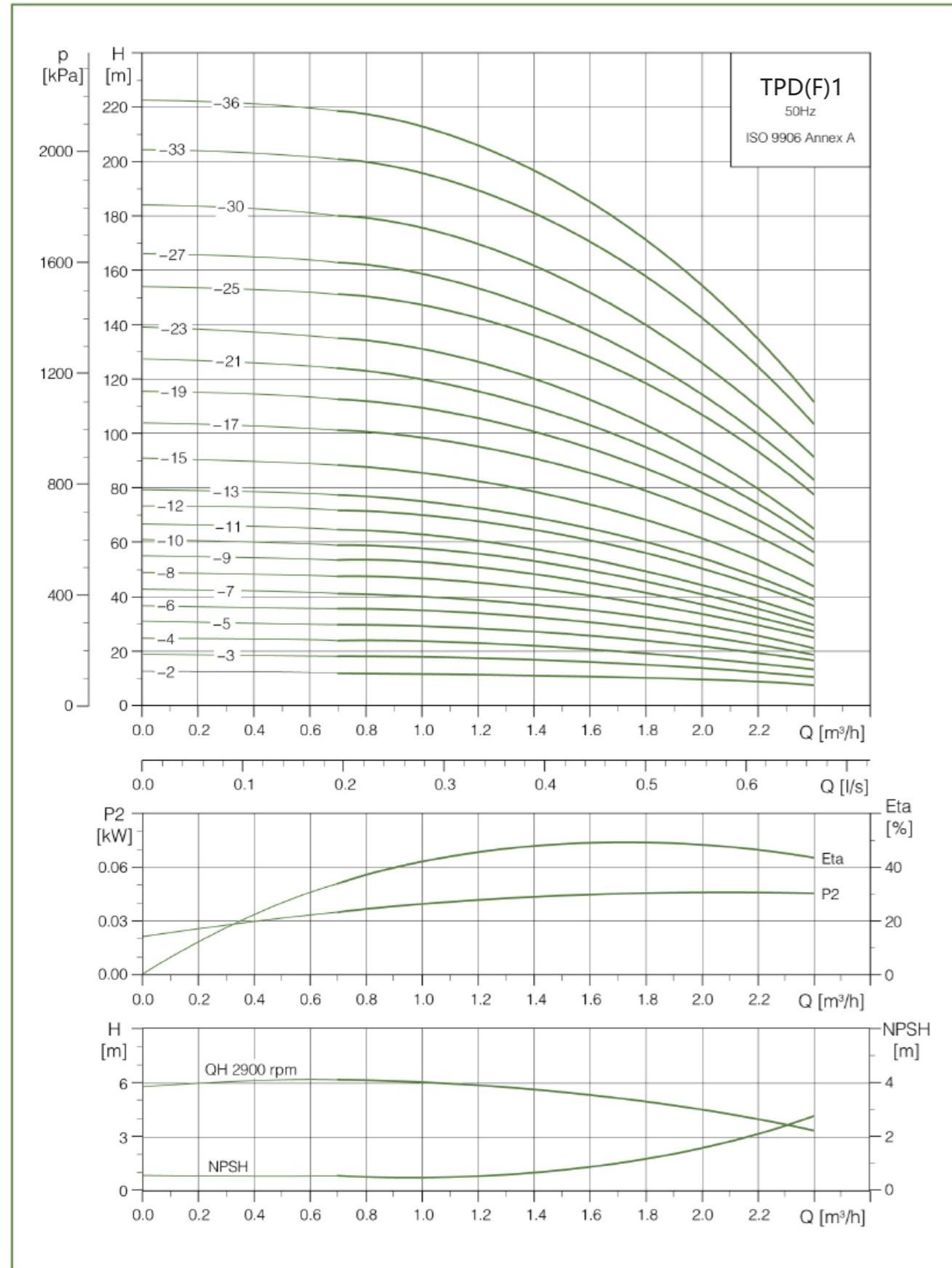
- 由于静音型屏蔽多级泵采用的是水润滑和水冷屏蔽电机,因此在水泵内部未充满水前,严禁通电试车!
- 特殊安装场合,请咨询天泉集团

## Special reminder:

- Since pumps adopt water-lubrication and water-cooled shielded motors, it is strictly forbidden to conduct an electrical test without filling the pump with water.
- For any special installation requirements, please consult TQ Group

序号 Number	1	2	3	4	5
描述 Description	管道支架 Pipe support	伸缩挠性接头 flexible joint	地脚螺栓或膨胀螺栓 Anchor bolt or expansion bolt	混凝土底座 Concrete base	减振器 Vibration damper

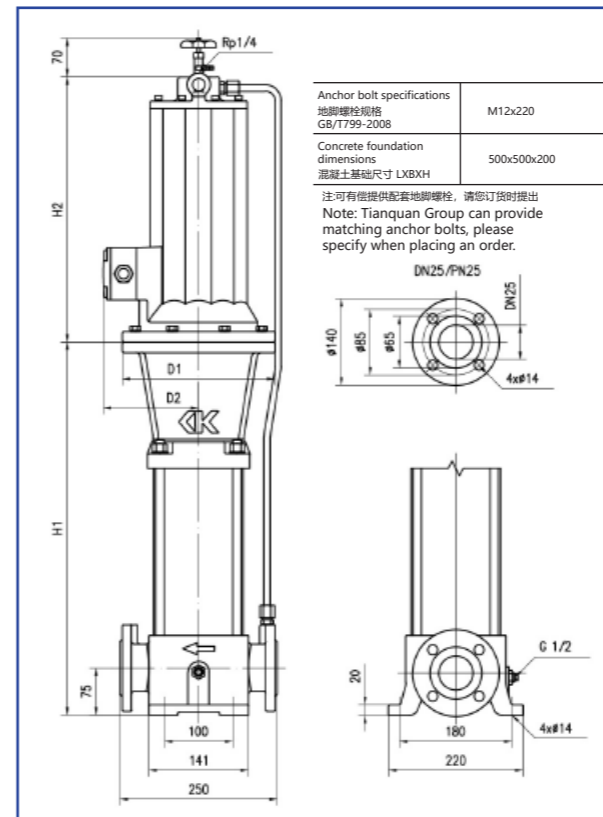
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	0.7	1	1.2	1.4	1.6	1.8	2	2.2	2.4	噪声 Noise dB(A)
	功率 Power(kW)	电流 Current(A)											
TPD(F)1-2	0.37	1.2	Head 扬程 m	11.7	11.5	11.1	10.7	10.1	9.3	8.3	7.3	6	43
TPD(F)1-3	0.37	1.2		17.5	17	16.5	15.8	14.8	13.6	12.3	10.6	8.7	43
TPD(F)1-4	0.37	1.2		23.4	22.7	22	21	20	18	16	14	11.5	43
TPD(F)1-5	0.37	1.2		29	28	27.3	26	24.5	22.5	20	17.3	14	43
TPD(F)1-6	0.37	1.2		35	34	33	31	29	27	24	21	17	43
TPD(F)1-7	0.37	1.2		41	39.5	38	36.5	34	31.5	28	24	19.5	43
TPD(F)1-8	0.55	1.8		47	45.5	44	42	39	36	32	28	23	43
TPD(F)1-9	0.55	1.8		53	51.3	49.5	47.5	44	40.5	36.5	31.5	26	43
TPD(F)1-10	0.55	1.8		59	57	55	53	49.5	45.5	40.5	35	29	43
TPD(F)1-11	0.55	1.8		65	63	61	58	54.5	50	44.5	39	32	43
TPD(F)1-12	0.75	2.5		71	69	67	63.5	59.5	54.5	49	42.5	35.5	45
TPD(F)1-13	0.75	2.5		77	75	72.5	69	65	59.5	53	46	38.5	45
TPD(F)1-15	0.75	2.5		89	86.5	84	80	75	68.5	61.4	53.5	44.5	45
TPD(F)1-17	0.9	2.8		100	97	94	90	84	77	68.5	59	49	45
TPD(F)1-19	1.1	3.1		111	108	104	99.5	93	85.5	76	65	53	46
TPD(F)1-21	1.1	3.1		123	119	115	109	102	94	83.5	71.5	57.5	46
TPD(F)1-23	1.1	3.1		134	130	125	119	111	102	90.5	77	61.5	46
TPD(F)1-25	1.3	3.7		145	140	135	129	120	110	97	83	66	46
TPD(F)1-27	1.5	4.2		156	151	145	138	129	118	104	89	71	46
TPD(F)1-30	1.5	4.2		173	167	161	153	142	130	114	97	78	46
TPD(F)1-33	1.8	5		190	183	176	167	155	142	125	105	85	46
TPD(F)1-36	2.2	6		207	199	191	182	169	153	135	114	91.5	46

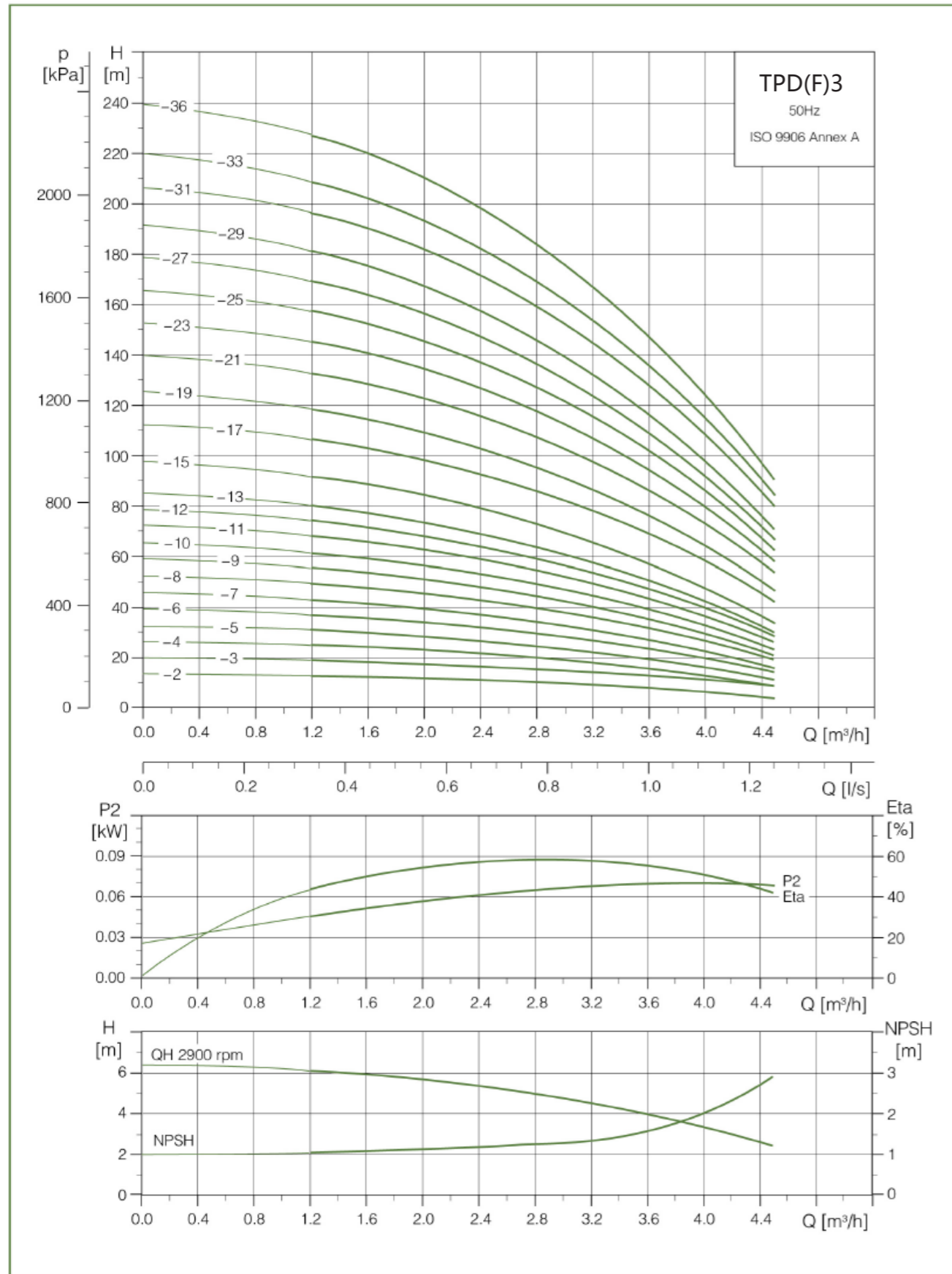
## 外形图 Dimension Figure



## 尺寸和重量 Dimension and Weight

型号 Type	尺寸 Size(mm)					重量 Weight kg
	H1	H2	H1+H2	D1	D2	
TPD(F)1-2	279	350	629	245	145	66
TPD(F)1-3	279	350	629	245	145	66
TPD(F)1-4	297	350	647	245	145	67
TPD(F)1-5	315	350	665	245	145	67
TPD(F)1-6	333	350	683	245	145	68
TPD(F)1-7	351	350	701	245	145	68
TPD(F)1-8	369	350	719	245	145	70
TPD(F)1-9	387	350	737	245	145	70
TPD(F)1-10	405	350	755	245	145	71
TPD(F)1-11	423	350	773	245	145	71
TPD(F)1-12	447	350	797	245	145	74
TPD(F)1-13	465	350	815	245	145	74
TPD(F)1-15	501	350	851	245	145	75
TPD(F)1-17	537	420	957	245	155	77
TPD(F)1-19	573	420	993	245	155	79
TPD(F)1-21	609	420	1029	245	155	81
TPD(F)1-23	645	420	1065	245	155	82
TPD(F)1-25	697	420	1117	245	155	84
TPD(F)1-27	733	420	1153	245	155	86
TPD(F)1-30	787	420	1207	245	155	87
TPD(F)1-33	841	420	1261	245	155	90
TPD(F)1-36	895	420	1315	245	155	93

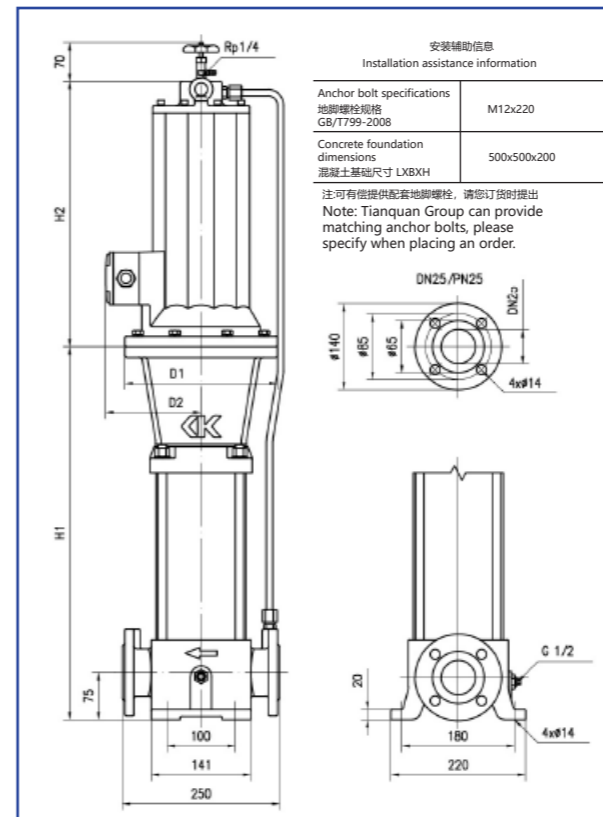
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机Motor		流量 Flow	1.2	1.6	2	2.4	2.8	3.2	3.6	4	4.4	噪声 Noise dB(A)
	功率 Power(kW)	电流 Current(A)											
TPD(F)3-2	0.37	1.2	12	11.7	11.2	10.5	9.7	8.6	7.3	5.7	3.9	43	
TPD(F)3-3	0.37	1.2	18	17.6	17	16	14.8	13.3	11.5	9.5	7	43	
TPD(F)3-4	0.37	1.2	24	23.5	22.6	21.5	20	18	15.8	13.2	10.2	43	
TPD(F)3-5	0.37	1.2	30	29.4	28.3	27	25	23	20	17	13.4	43	
TPD(F)3-6	0.55	1.8	36.2	35.2	34	32.5	30	27.7	24.5	20.8	16.5	43	
TPD(F)3-7	0.55	1.8	42.2	41	39.7	37.8	35.5	32.5	28.7	24.5	19.7	43	
TPD(F)3-8	0.75	2.5	48	47	45.5	43	40.5	37	32.5	28	22.5	45	
TPD(F)3-9	0.75	2.5	54.3	53	51	48.5	45.5	41.5	36.5	31	25	45	
TPD(F)3-10	0.75	2.5	60.5	59	57	54	50.5	46	40.5	34.5	27.5	45	
TPD(F)3-11	0.9	2.8	66.5	65	62.5	59.5	55	50.5	44.5	38	30	45	
TPD(F)3-12	0.9	2.8	72.5	70.5	68	65	60.5	55	48.5	41	32.5	45	
TPD(F)3-13	1.1	3.1	78.5	76.5	74	70	65.5	59.5	52.5	44.5	35	46	
TPD(F)3-15	1.1	3.1	90.5	88.5	85.5	81	75	68.5	60	51	40.5	46	
TPD(F)3-17	1.3	3.7	103	100	97	92	85.5	78	68.5	58	46.5	46	
TPD(F)3-19	1.5	4.2	115	112	108	103	96	87	77	65	52	46	
TPD(F)3-21	1.8	5	127	124	120	114	106	96.5	85	72	57.5	46	
TPD(F)3-23	1.8	5	133	130	125	119	111	101	89	76	60	46	
TPD(F)3-25	2.2	6	151	147	142	135	126	115	101	86	69	46	
TPD(F)3-27	2.2	6	163	159	153	146	136	124	108	93	74	46	
TPD(F)3-29	2.2	6	175	171	165	156	145	133	117	99.5	79.5	46	
TPD(F)3-31	2.6	6.9	187	182	176	167	156	142	125	106	84	48	
TPD(F)3-33	2.6	6.9	199	193	187	178	164	151	132	112	90	48	
TPD(F)3-36	3	7.8	217	211	204	194	179	164	144	122	97.5	48	

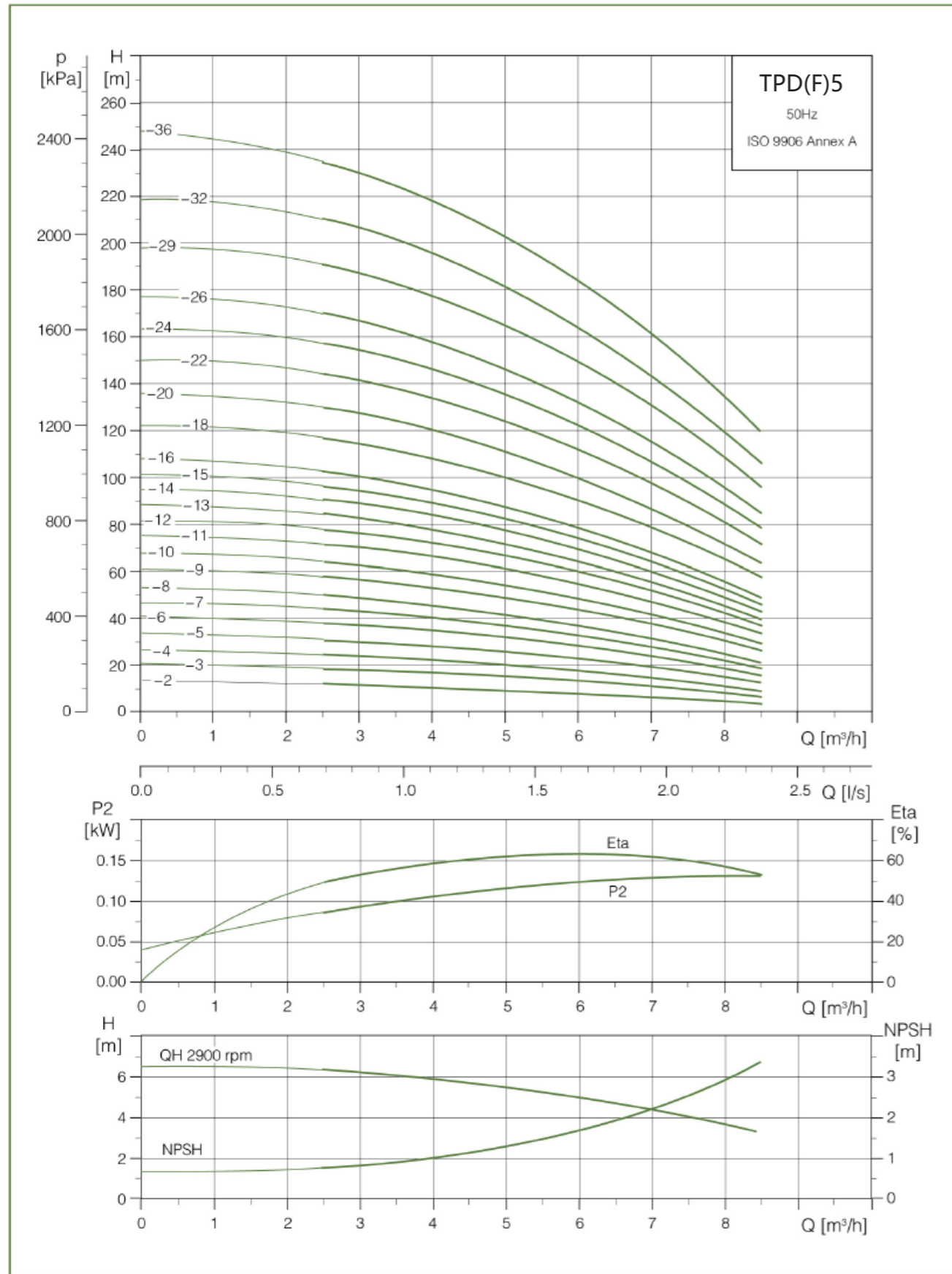
## 外形图 Dimension Figure



## 尺寸和重量 Dimension and Weight

型号 Type	尺寸 Size[mm]					重量 Weight kg
	H1	H2	H1+H2	D1	D2	
TPD(F)3-2	279	350	629	245	155	66
TPD(F)3-3	279	350	629	245	155	66
TPD(F)3-4	297	350	647	245	155	67
TPD(F)3-5	315	350	665	245	155	67
TPD(F)3-6	333	350	683	245	155	69
TPD(F)3-7	351	350	701	245	155	69
TPD(F)3-8	375	350	725	245	155	71
TPD(F)3-9	393	350	743	245	155	71
TPD(F)3-10	411	350	761	245	155	72
TPD(F)3-11	429	420	849	245	155	74
TPD(F)3-12	447	420	867	245	155	75
TPD(F)3-13	465	420	885	245	155	76
TPD(F)3-15	501	420	921	245	155	76
TPD(F)3-17	553	420	973	245	155	78
TPD(F)3-19	589	420	1009	245	155	81
TPD(F)3-21	625	420	1045	245	155	83
TPD(F)3-23	661	420	1081	245	155	84
TPD(F)3-25	697	420	1117	245	155	86
TPD(F)3-27	733	420	1153	245	155	87
TPD(F)3-29	769	420	1189	245	155	89
TPD(F)3-31	809	525	1334	290	185	109
TPD(F)3-33	845	525	1370	290	185	110
TPD(F)3-36	899	525	1424	290	185	115

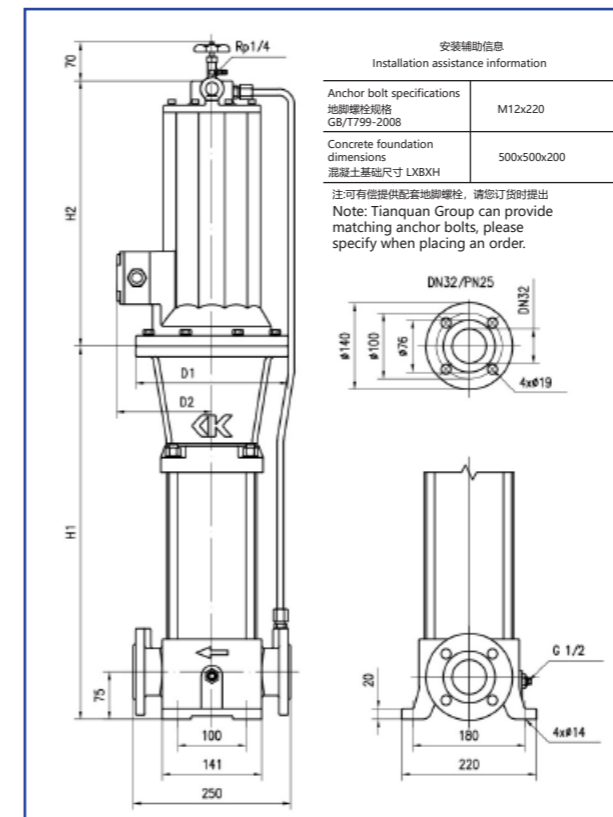
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	2.5	3	4	5	6	7	8	噪声 Noise dB(A)
	功率 Power(kW)	电流 Current(A)									
TPD(F)5-2	0.37	1.2	Head 扬程 m	11.5	11.2	10.3	9.3	7	6.2	4.2	43
TPD(F)5-3	0.55	1.8		18	17.5	16.5	15	13.5	11	8.5	43
TPD(F)5-4	0.55	1.8		24.5	24	23	21	19	16	13	43
TPD(F)5-5	0.75	2.5		31	30.5	29	27	24.5	21	17	45
TPD(F)5-6	0.9	2.8		37.5	37	35.5	33	30	26	21	45
TPD(F)5-7	1.1	3.1		43.5	43	41	38	34.5	30	24	46
TPD(F)5-8	1.1	3.1		50	49	47	43.5	39.5	34	27.5	46
TPD(F)5-9	1.3	3.7		55.7	55	52.5	49	44	38	31	46
TPD(F)5-10	1.5	4.2		62	61	58	54	48.5	42	34	46
TPD(F)5-11	1.8	5		68	67	64	59.5	54	46.5	38	46
TPD(F)5-12	1.8	5		74	73	70	65	59	51	41.5	46
TPD(F)5-13	2.2	6		80.5	79	76	71	64	55	45	46
TPD(F)5-12	2.2	6		86.5	85	82	76.5	69	60	49	46
TPD(F)5-15	2.2	6		93	91.5	87.5	82	74	64.5	53	46
TPD(F)5-16	2.2	6		99	97.5	93.5	87.5	79.5	69	56	46
TPD(F)5-18	2.6	6.9		112	110	105	98.5	89.5	77.5	64	48
TPD(F)5-20	3	7.8		124	122	117	110	99.5	86.5	71	48
TPD(F)5-22	3.7	9.3		136	135	129	121	110	95	78	48
TPD(F)5-24	3.7	9.3		149	147	141	132	120	104	85.5	48
TPD(F)5-26	4	9.8		161	159	153	143	130	113	93	48
TPD(F)5-29	4	9.8	180	178	171	160	145	126	104	48	
TPD(F)5-32	4.8	11.8	199	196	188	177	161	140	115	48	
TPD(F)5-36	5.5	13.5	224	221	212	199	181	158	130	48	

## 外形图 Dimension Figure



## 尺寸和重量 Dimension and Weight

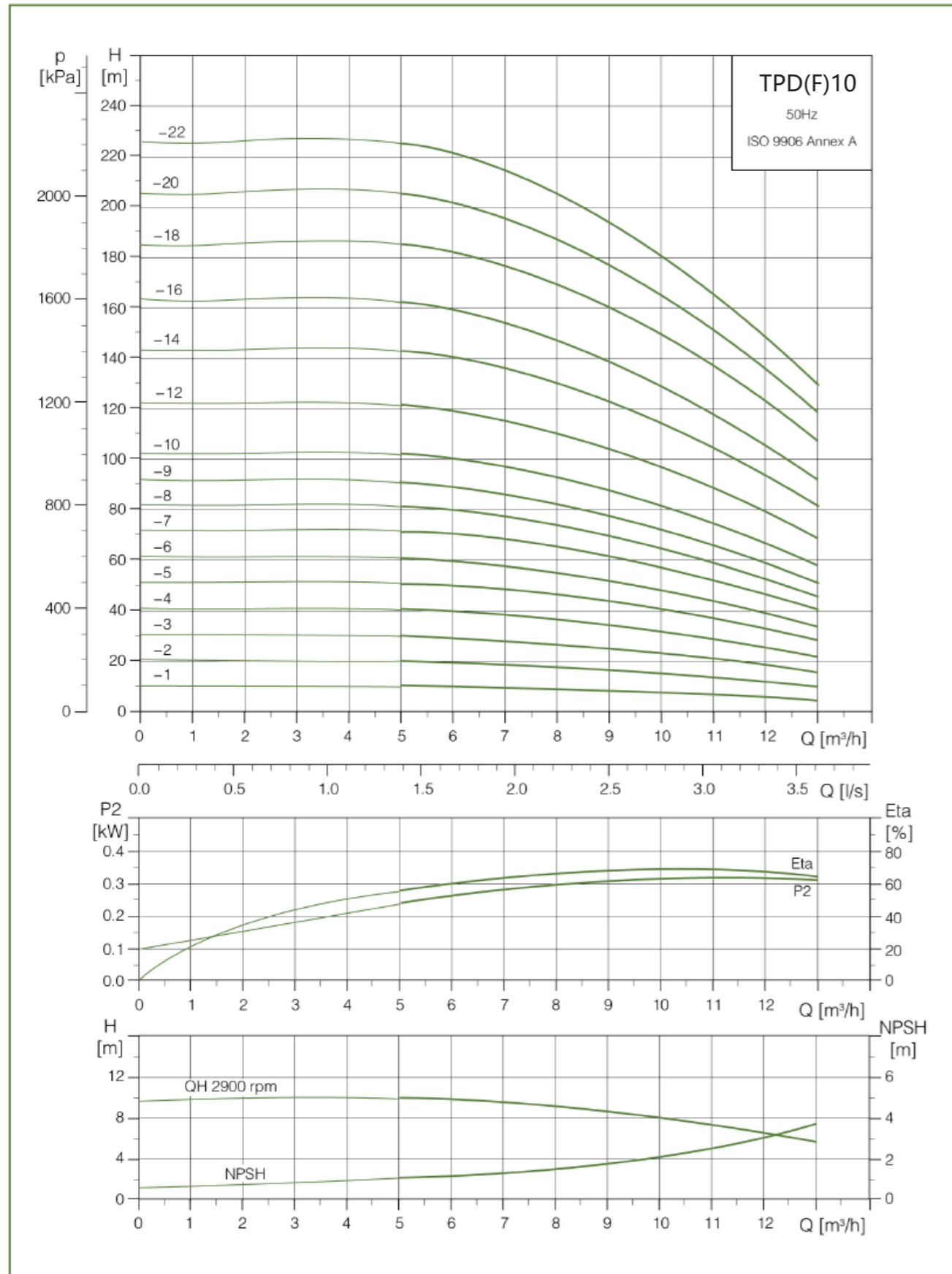
型号Type	尺寸Size[mm]					重量 Weight kg
	H1	H2	1+H2	D1	D2	
TPD(F)5-2	279	350	629	245	155	69
TPD(F)5-3	306	350	656	245	155	71
TPD(F)5-4	333	350	683	245	155	72
TPD(F)5-5	366	350	716	245	155	75
TPD(F)5-6	393	420	813	245	155	77
TPD(F)5-7	420	420	840	245	155	79
TPD(F)5-8	447	420	867	245	155	81
TPD(F)5-9	490	420	910	245	155	83
TPD(F)5-10	517	420	937	245	155	85
TPD(F)5-11	544	420	964	245	155	87
TPD(F)5-12	571	420	991	245	155	89
TPD(F)5-13	598	420	1018	245	155	91
TPD(F)5-14	625	420	1045	245	155	92
TPD(F)5-15	652	420	1072	245	155	93
TPD(F)5-16	679	420	1099	245	155	94
TPD(F)5-18	737	525	1262	290	185	116
TPD(F)5-20	791	525	1316	290	185	121
TPD(F)5-22	845	525	1370	290	185	127
TPD(F)5-24	899	525	1424	290	185	129
TPD(F)5-26	953	525	1478	290	185	133
TPD(F)5-29	1034	525	1559	290	185	137
TPD(F)5-32	1145	525	1670	290	185	143
TPD(F)5-36	1253	525	1778	290	185	148



# TPD(F)10

DN40,2P, 2900RPM,50Hz

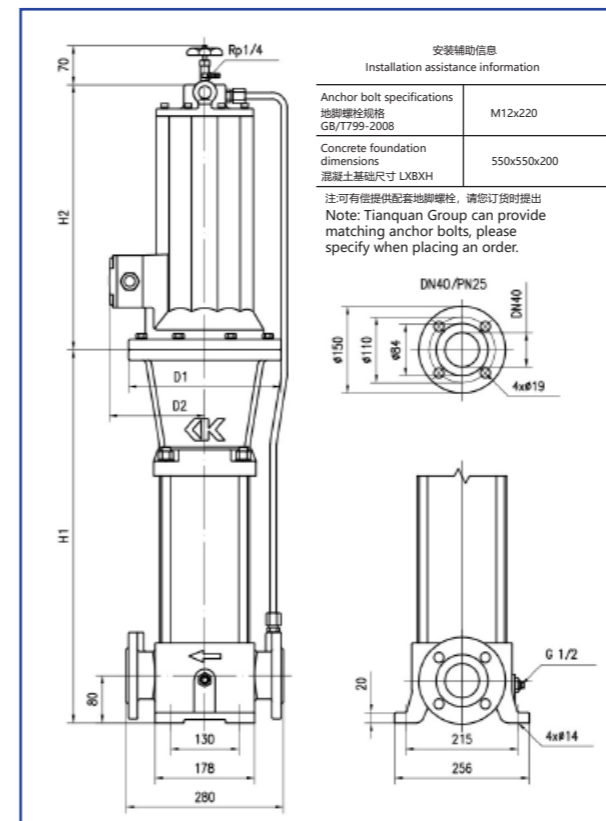
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	5	6	7	8	9	10	11	12	13	噪声 Noise dB(A)
	功率(kW) Power(kW)	电流(A) Current(A)											
TPD(F)10-1	0.37	1.2	Head 扬程 m	9.5	9.3	8.9	8.4	7.8	7	6.2	5.2	4.2	43
TPD(F)10-2	0.75	2.5		19.5	19	18.5	17.7	16.5	15.3	13.7	12	10	45
TPD(F)10-3	1.1	3.1		29	28	27	25.7	24	22	19.6	17	4.5	46
TPD(F)10-4	1.5	4.2		38.5	37.5	36	34	32	29	26	23	19.5	46
TPD(F)10-5	1.8	5		48	47	45	43	40	36.7	33	29	24.7	46
TPD(F)10-6	2.2	6		59.5	58.7	57	55	52	48	44	39	34	46
TPD(F)10-7	2.6	6.9		69.5	68.5	67	64	60.5	56.5	51	45.5	39.5	48
TPD(F)10-8	3	7.8		79.5	78.5	76.5	73	69	64.5	58.5	52	45.5	48
TPD(F)10-9	3	7.8		89.5	88	86	82.5	78	72.5	66	58.5	51	48
TPD(F)10-10	3.7	9.3		99.5	98	95.5	91.5	86.7	80.5	73.5	65.5	57	48
TPD(F)10-12	4	9.8		120	118	115	110	104	97	88.5	79	69	48
TPD(F)10-14	4.8	11.8		139	137	134	128	121	113	103	92	80	48
TPD(F)10-16	5.5	13.5		159	156	152	146	138	128	117	104	91	48
TPD(F)10-18	6.3	15.3		179	176	171	164	155	145	132	117	103	48
TPD(F)10-20	7.5	18	198	196	190	183	173	162	147	132	115	48	
TPD(F)10-22	7.5	18	218	215	209	201	190	177	163	145	127	48	

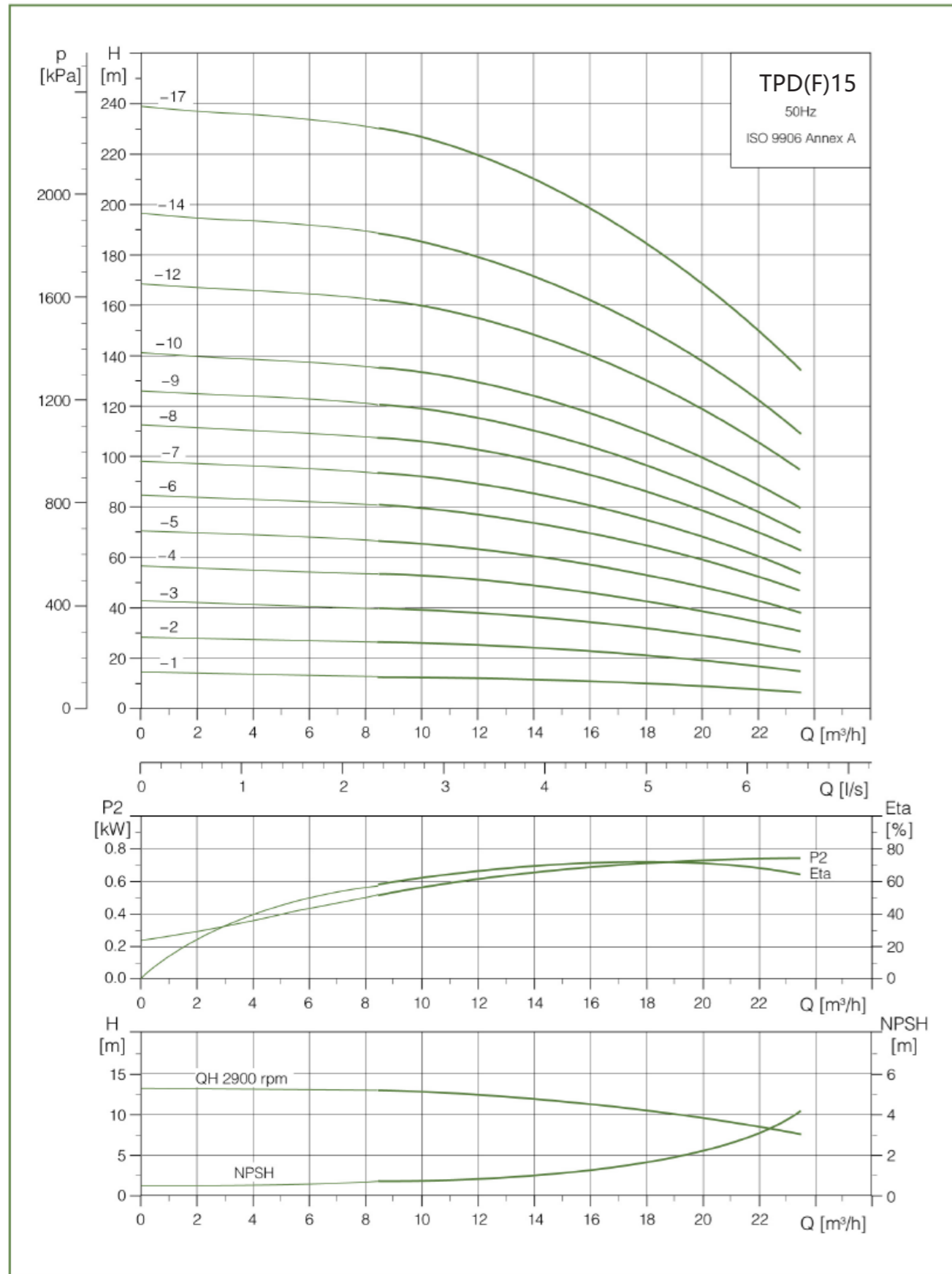
## 外形图 Dimension Figure



## 尺寸和重量 Dimension and Weight

型号 Type	尺寸 Size[mm]					重量 Weight kg
	H1	H2	H1+H2	D1	D2	
TPD(F)10-1	343	350	693	245	155	83
TPD(F)10-2	347	350	697	245	155	87
TPD(F)10-3	377	420	797	245	155	92
TPD(F)10-4	423	420	843	245	155	97
TPD(F)10-5	453	420	873	245	155	100
TPD(F)10-6	483	420	903	245	155	104
TPD(F)10-7	518	525	1043	290	185	125
TPD(F)10-8	548	525	1073	290	185	130
TPD(F)10-9	578	525	1103	290	185	132
TPD(F)10-10	608	525	1133	290	185	138
TPD(F)10-12	668	525	1193	290	185	144
TPD(F)10-14	760	525	1285	290	185	150
TPD(F)10-16	820	525	1345	290	185	154
TPD(F)10-18	880	525	1405	290	185	162
TPD(F)10-20	940	525	1465	290	185	168
TPD(F)10-22	1000	525	1525	290	185	171

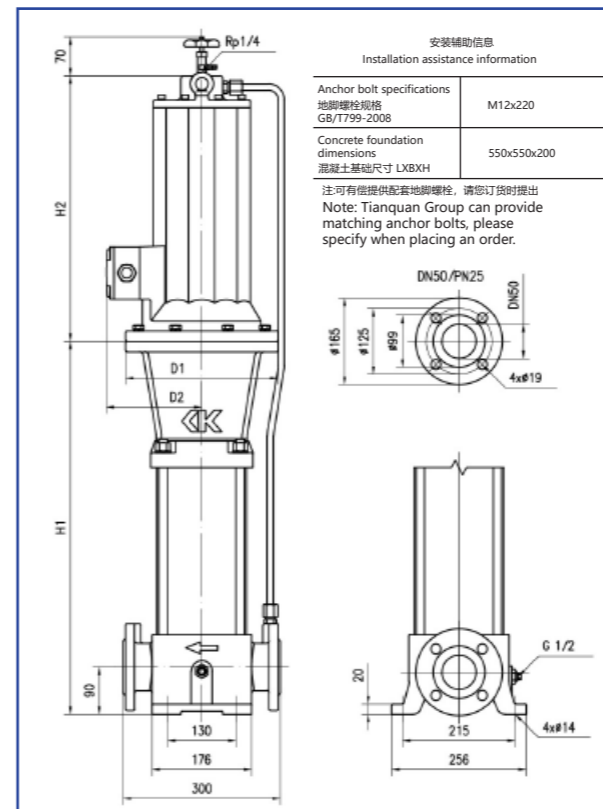
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	8.5	10	12	14	16	18	20	22	23.5	噪声 Noise
	功率 Power(kW)	电流 Current(A)											dB(A)
TPD(F)15-1	0.9	2.8	Head 扬程 m	12.5	12.2	11.8	11.2	10.5	9.7	8.7	7.5	6.4	45
TPD(F)15-2	1.8	5		25.5	24.7	23.7	22.5	21	19.5	17.2	15	13.2	46
TPD(F)15-3	2.6	6.9		38.5	38	37	35.5	33.5	31	28.5	25	22.5	48
TPD(F)15-4	3.7	9.3		51.5	50.8	49.5	47.5	45	41.5	38	33.5	30	48
TPD(F)15-5	4	9.8		64.5	63.5	62	59.5	56	52	47.5	42	37.5	48
TPD(F)15-6	4.8	11.8		78	76.5	74.5	71.5	67.5	63	57	51	45.5	48
TPD(F)15-7	5.5	13.5		91	90	87.5	84	79	73.5	67	59.5	53.5	48
TPD(F)15-8	6.3	15.3		104	103	100	96	91	84.5	77	68	61.5	48
TPD(F)15-9	7.5	18		118	116	113	108	102	95	86.5	76.5	69.5	48
TPD(F)15-10	9	22		30	129	125	120	113	105	96	85	76.5	50
TPD(F)15-12	11	25.7		156	154	150	143	135	125	114	102	92	50
TPD(F)15-14	11	25.7		183	180	175	168	158	147	134	119	107	50
TPD(F)15-17	13	30		222	219	213	204	192	178	162	144	130	50

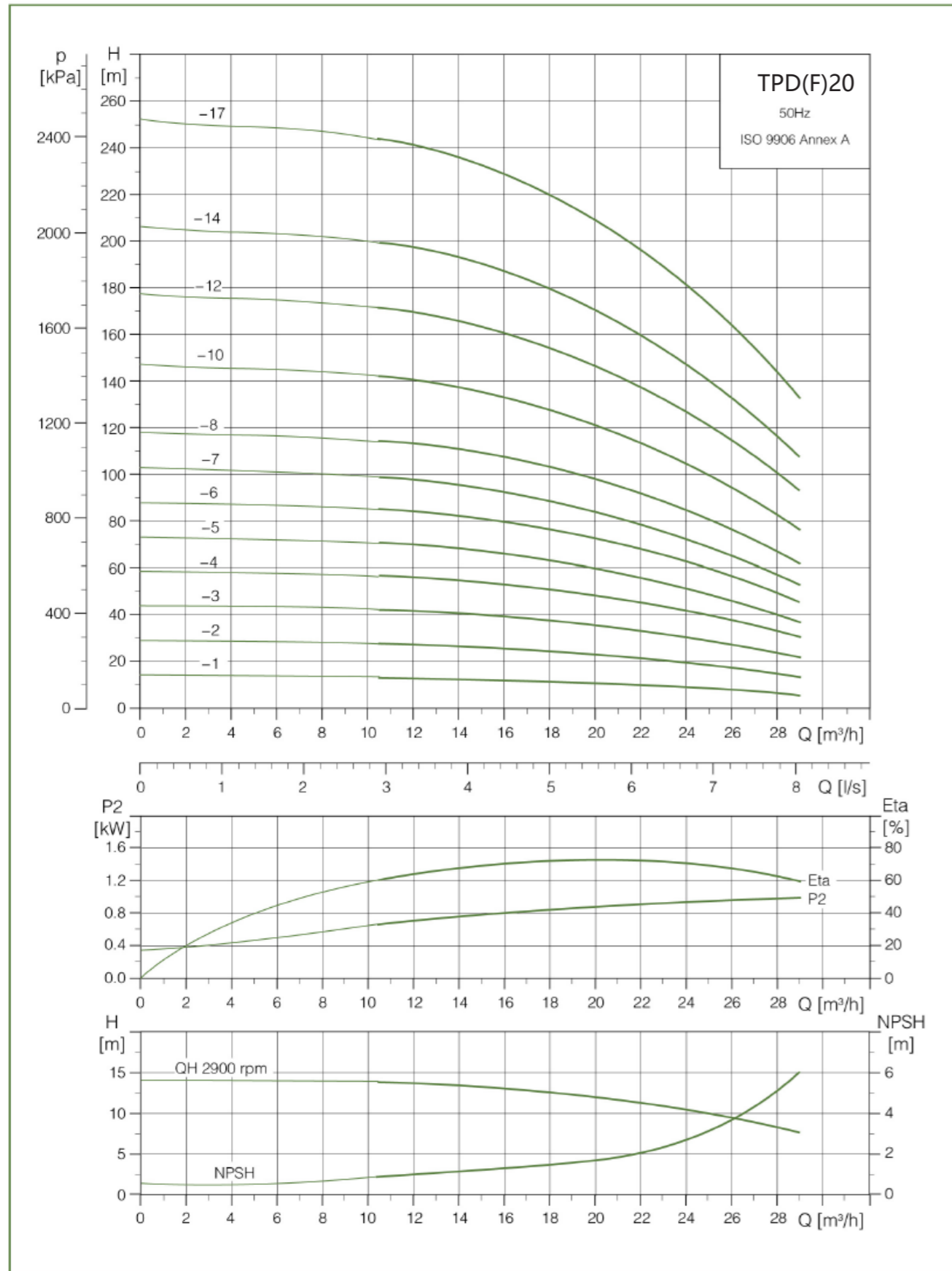
## 外形图 Dimension Figure



## 尺寸和重量 Dimension and Weight

型号 Type	尺寸 Size[mm]					重量 Weight kg
	H1	H2	H1+H2	D1	D2	
TPD(F)15-1	400	420	820	245	155	90
TPD(F)15-2	415	420	835	245	155	97
TPD(F)15-3	465	525	990	290	185	120
TPD(F)15-4	510	525	1035	290	185	128
TPD(F)15-5	555	525	1080	290	185	132
TPD(F)15-6	632	525	1157	290	185	137
TPD(F)15-7	677	525	1202	290	185	140
TPD(F)15-8	722	525	1247	290	185	147
TPD(F)15-9	767	525	1292	290	185	152
TPD(F)15-10	889	615	1504	390	215	199
TPD(F)15-12	979	615	1594	390	215	206
TPD(F)15-14	1069	615	1684	390	215	210
TPD(F)15-17	1204	615	1819	390	215	232

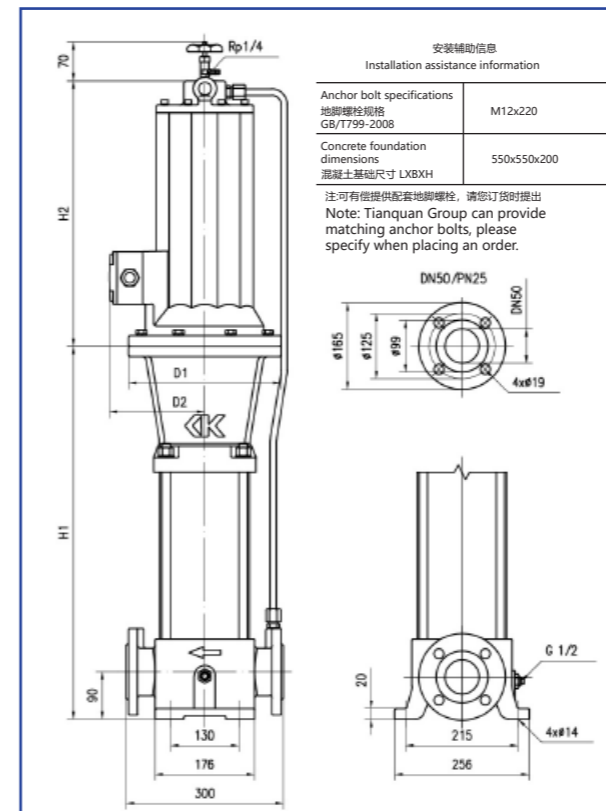
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	10.5	12	14	16	18	20	22	24	26	28	噪声 Noise dB(A)
	功率 Power(kW)	电流 Current (A)												
TPD(F)20-1	1.1	3.1	Head 扬程 m	13.1	12.9	12.5	12	11.3	10.5	9.7	8.7	7.5	6.2	46
TPD(F)20-2	2.2	6		26.7	26.3	25.6	24.8	23.7	22.5	21	18.8	16.6	14	46
TPD(F)20-3	3.7	9.3		40.5	40	39	37.7	36	34	32	29	26	22	48
TPD(F)20-4	4.8	11.8		54	53.5	52.3	50.7	48.5	46	43	39	35	30	48
QPD(F)20-5	5.5	13.5		68	67	65.5	63.5	61	57.7	54	49.5	44	38.5	48
TPD(F)20-6	6.3	15.3		82	81	79.5	77	74	70.5	65.5	60	54	47.5	48
TPD(F)20-7	7.5	18		96	95	93	90.5	87	82.5	77.5	71	63.5	56	48
TPD(F)20-8	9	22		110	109	107	103	99.5	94.5	88.5	81.5	72.5	63.5	50
TPD(F)20-10	11	25.7		138	136	133	130	125	118	113	111	103	92	50
TPD(F)20-12	13	30		165	163	160	156	150	142	133	122	109	97	50
TPD(F)20-14	15	35		193	191	187	182	175	166	155	143	128	113	50
TPD(F)20-17	18.5	42		243	231	227	220	213	202	189	173	156	136	52

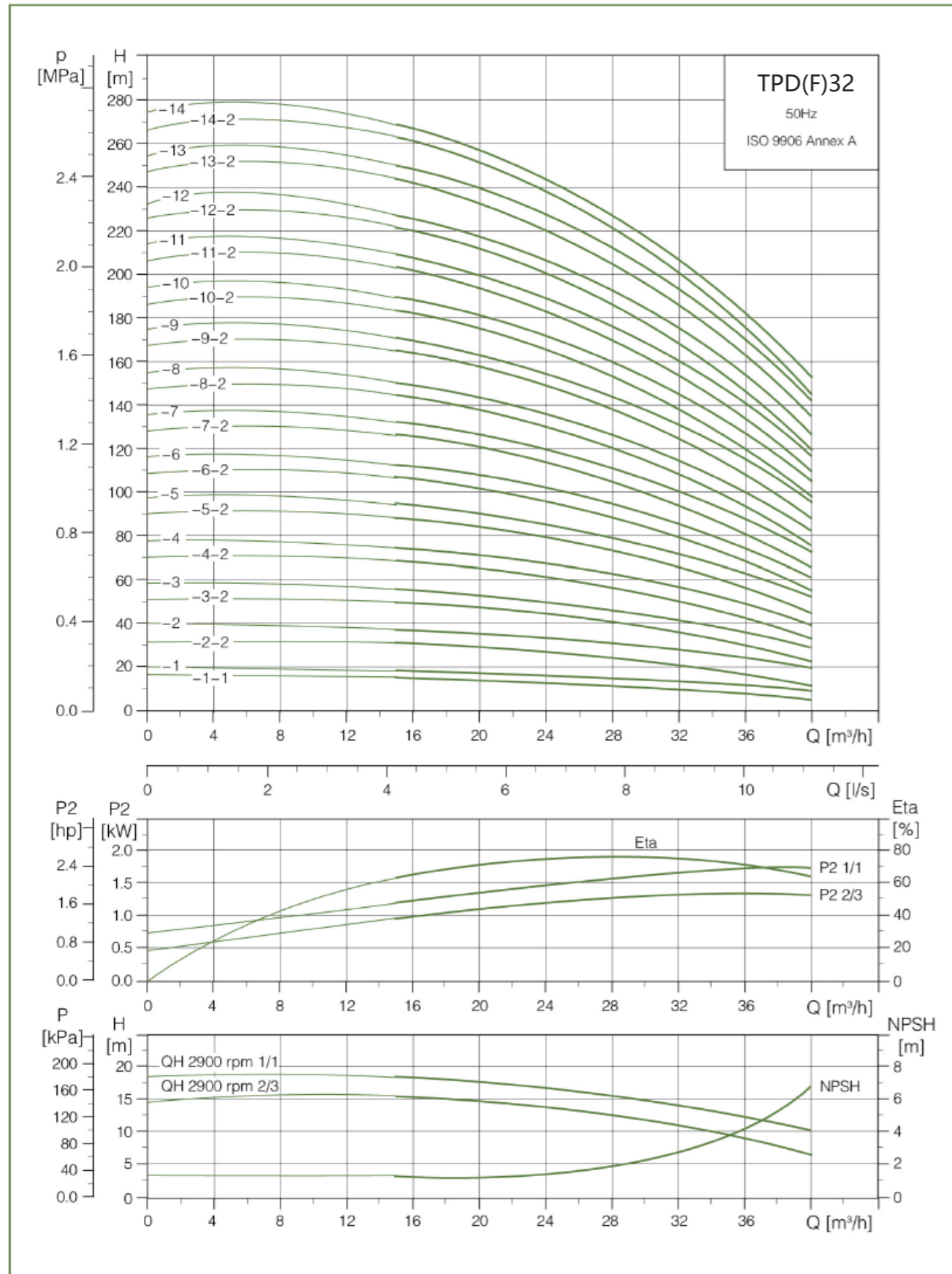
## 外形图 Dimension Figure



## 尺寸和重量 Dimension and Weight

型号 Type	尺寸 Size[mm]					重量 Weight kg
	H1	H2	H1+H2	D1	D2	
TPD(F)20-1	400	420	820	245	155	91
TPD(F)20-2	415	420	835	245	155	98
TPD(F)20-3	465	525	990	290	185	125
TPD(F)20-4	510	525	1035	290	185	132
TPD(F)20-5	555	525	1080	290	185	136
TPD(F)20-6	632	525	1157	290	185	143
TPD(F)20-7	677	525	1202	290	185	147
TPD(F)20-8	799	615	1414	390	215	194
TPD(F)20-10	889	615	1504	390	215	201
TPD(F)20-12	979	615	1594	390	215	221
TPD(F)20-14	1069	615	1684	390	215	228
TPD(F)20-17	1204	660	1864	420	240	277

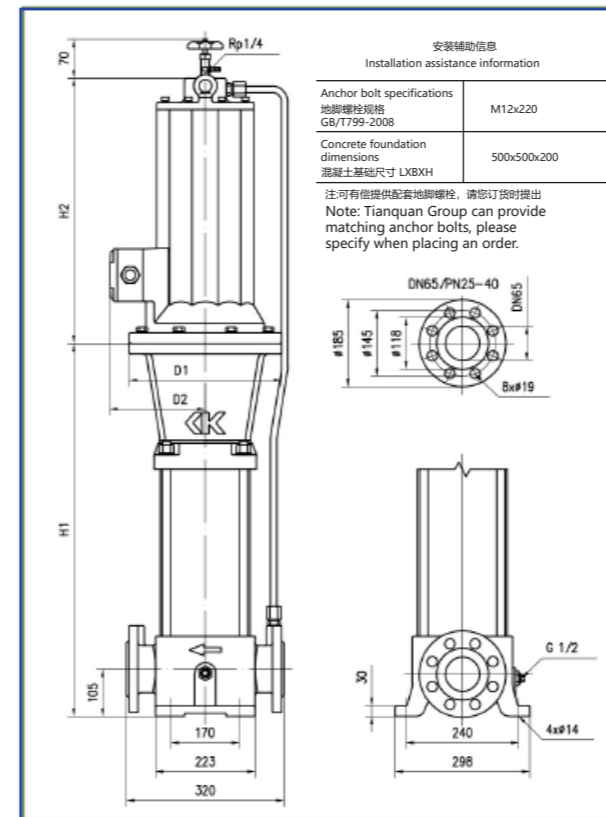
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	15	18	20	24	28	32	36	噪声 Noise dB(A)
	功率 Power(kW)	电流 Current(A)									
TPD(F)32-1-1	1.5	4.2	Head 扬程 m	5.1	14.9	4.2	13.1	11.6	9.7	8.7	46
TPD(F)32-1	2.2	6		18.1	18	17.2	16	15	13.2	11.2	46
TPD(F)32-2-2	3	7.8		31	30.7	29.3	27	24.3	20.8	16.7	48
TPD(F)32-2	3.7	9.3		37.2	37	35.3	33.5	31	28	24	48
TPD(F)32-3-2	4.8	11.8		46.8	46.4	44.5	42.2	39	35.5	31	48
TPD(F)32-3	5.5	13.5		55.7	55.2	53	50	46	41.5	36	48
TPD(F)32-4-2	6.3	15.3		65.3	64.7	62	59	55	49.7	43	48
TPD(F)32-4	7.5	18		73.2	72.5	69.5	66	61.3	55.8	48.6	48
TPD(F)32-5-2	9	22		83.8	83	79.5	75.5	70.3	64	55.7	50
TPD(F)32-5	9	22		91.7	91	87	82.5	77	70	61	50
TPD(F)32-6-2	11	25.7		102	101	97	92	86	78	68	50
TPD(F)32-6	11	25.7		110	109	105	99.3	92.5	84	73.5	50
TPD(F)32-7-2	13	30		121	120	115	109	102	93	82	50
TPD(F)32-7	13	30		29	127	122	116	108	98	85.5	50
TPD(F)32-8-2	15	35	139	138	133	126	117	106	92.5	50	
TPD(F)32-8	15	35	147	146	40	133	124	12	98	50	
TPD(F)32-9-2	17	39	158	156	50	142	32	20	105	50	
TPD(F)32-9	17	39	165	164	157	149	139	127	110	50	
TPD(F)32-10-2	18.5	42	176	174	168	159	148	134	117	52	
TPD(F)32-10	18.5	42	184	182	175	166	155	141	123	52	
TPD(F)32-11-2	20	45	194	193	185	176	163	149	129	52	
TPD(F)32-11	20	45	202	200	192	182	169	155	134	52	
TPD(F)32-12-2	22	50	212	211	202	191	179	162	141	52	
TPD(F)32-12	22	50	220	218	209	199	186	169	146	52	
TPD(F)32-13-2	25	55	231	228	219	208	194	176	153	52	
TPD(F)32-13	25	55	238	236	227	215	200	183	160	52	
TPD(F)32-14-2	25	55	249	246	236	224	209	190	167	52	
TPD(F)32-14	30	65	256	254	244	231	215	197	171	52	

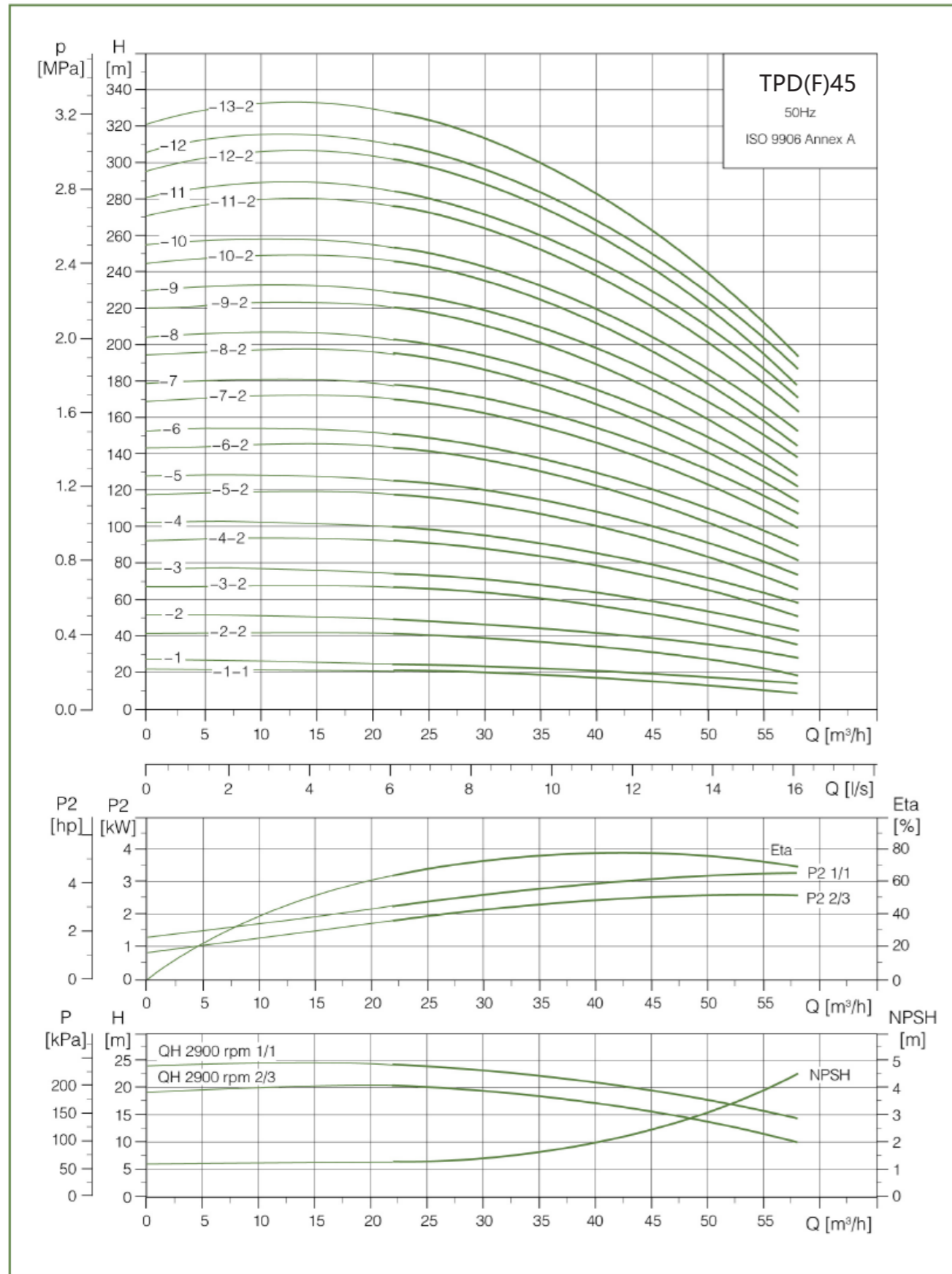
## 外形图 Dimension Figure



## 尺寸和重量 Dimension and Weight

型号 Type	尺寸 Size(mm)					重量 Weight kg
	H1	H2	H1+H2	D1	D2	
TPD(F)32-1-1	505	420	925	245	155	132
TPD(F)32-1	505	420	925	245	155	135
TPD(F)32-2-2	575	55	1100	290	185	160
TPD(F)32-2	575	525	1100	290	185	163
TPD(F)32-3	645	525	1170	290	185	171
TPD(F)32-3	645	525	1170	290	185	173
TPD(F)32-4-2	715	525	1240	290	185	181
TPD(F)32-4	715	525	1240	290	185	183
TPD(F)32-5-2	895	615	1510	390	215	231
TPD(F)32-5	895	615	1510	390	215	231
TPD(F)32-6-2	965	615	1580	390	215	237
TPD(F)32-6	965	615	1580	390	215	237
TPD(F)32-7-2	1035	615	1650	390	215	255
TPD(F)32-7	1035	615	1650	390	215	255
TPD(F)32-8-2	1105	615	1720	390	215	261
TPD(F)32-8	1105	615	1720	390	215	261
TPD(F)32-9-2	1175	660	1835	420	240	305
TPD(F)32-9	1175	660	1835	420	240	305
TPD(F)32-10-2	1245	660	1905	420	240	311
TPD(F)32-10	1245	660	1905	420	240	311
TPD(F)32-11-2	1315	660	1975	420	240	322
TPD(F)32-11	1315	660	1975	420	240	322
TPD(F)32-12-2	1385	660	2045	420	240	328
TPD(F)32-12	1385	660	2045	420	240	328
TPD(F)32-13-2	1455	660	2115	420	240	340
TPD(F)32-13	1455	660	2115	420	240	340
TPD(F)32-14-2	1525	660	2185	420	240	344
TPD(F)32-14	1525	660	2185	420	240	346

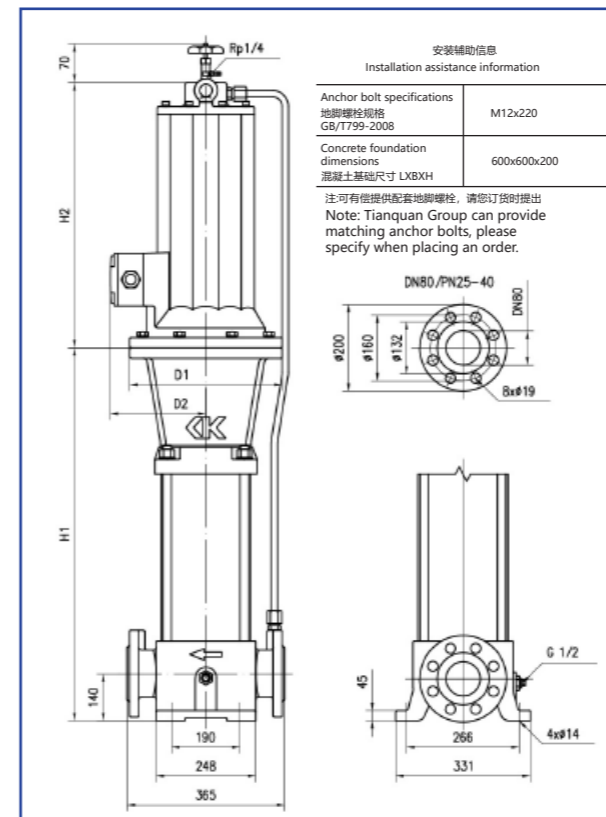
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	22	25	30	35	40	45	50	55	噪声 Noise dB(A)	
	功率 Power(kW)	电流 Current(A)											
TPD(F)45-1-1	3	7.8	Head 扬程 m	20.5	20	19.5	18	17	15	13	10.5	48	
TPD(F)45-1	3.7	9.3		24.5	24	23	22	21	19.5	17.5	15	15	48
TPD(F)45-2-2	5.5	13.5		41.5	41	39	37	34	30.5	26.5	22	22	48
TPD(F)45-2	7.5	18		49	48.5	47	44.5	42	39	35	31	31	48
TPD(F)45-3-2	9	22		67	66	64	61	57	52	46.5	40	40	50
TPD(F)45-3	11	25.7		74.5	73.5	71	68	64	59.5	54	48	48	50
TPD(F)45-4-2	13	30		92.5	91	88	84	78.5	72	64.5	56.5	56.5	50
TPD(F)45-4	15	35		100	98.5	95	91	86	80	72.5	64	64	50
TPD(F)45-5-2	17	39		118	116	113	107	101	93	84	73	73	50
TPD(F)45-5	18.5	42		126	124	120	115	108	100	91	81	81	52
TPD(F)45-6-2	20	45		144	142	137	131	123	114	102	90	90	52
TPD(F)45-6	22	50		151	149	144	138	131	121	111	97.5	97.5	52
TPD(F)45-7-2	25	55		170	168	163	156	147	136	123	109	109	52
TPD(F)45-7	25	55	178	176	171	163	155	144	132	117	117	52	
TPD(F)45-8-2	30	65	195	193	187	179	168	156	142	125	125	52	
TPD(F)45-8	30	65	203	200	194	186	176	164	149	133	133	52	
TPD(F)45-9-2	30	65	220	217	211	201	190	175	159	141	141	52	
TPD(F)45-9	33	72	229	226	219	210	199	185	169	151	151	52	
TPD(F)45-10-2	33	72	246	243	236	226	212	197	179	158	158	52	
TPD(F)45-10	37	82	254	251	243	233	221	205	187	167	167	52	
TPD(F)45-11-2	40	90	276	273	264	253	239	222	202	179	179	52	
TPD(F)45-11	40	90	285	281	272	261	247	230	210	187	187	55	
TPD(F)45-12-2	40	90	302	298	289	276	261	242	220	195	195	55	
TPD(F)45-12	45	102	310	306	297	284	269	250	228	204	204	55	
TPD(F)45-13-2	45	102	327	323	313	300	283	263	240	211	211	55	

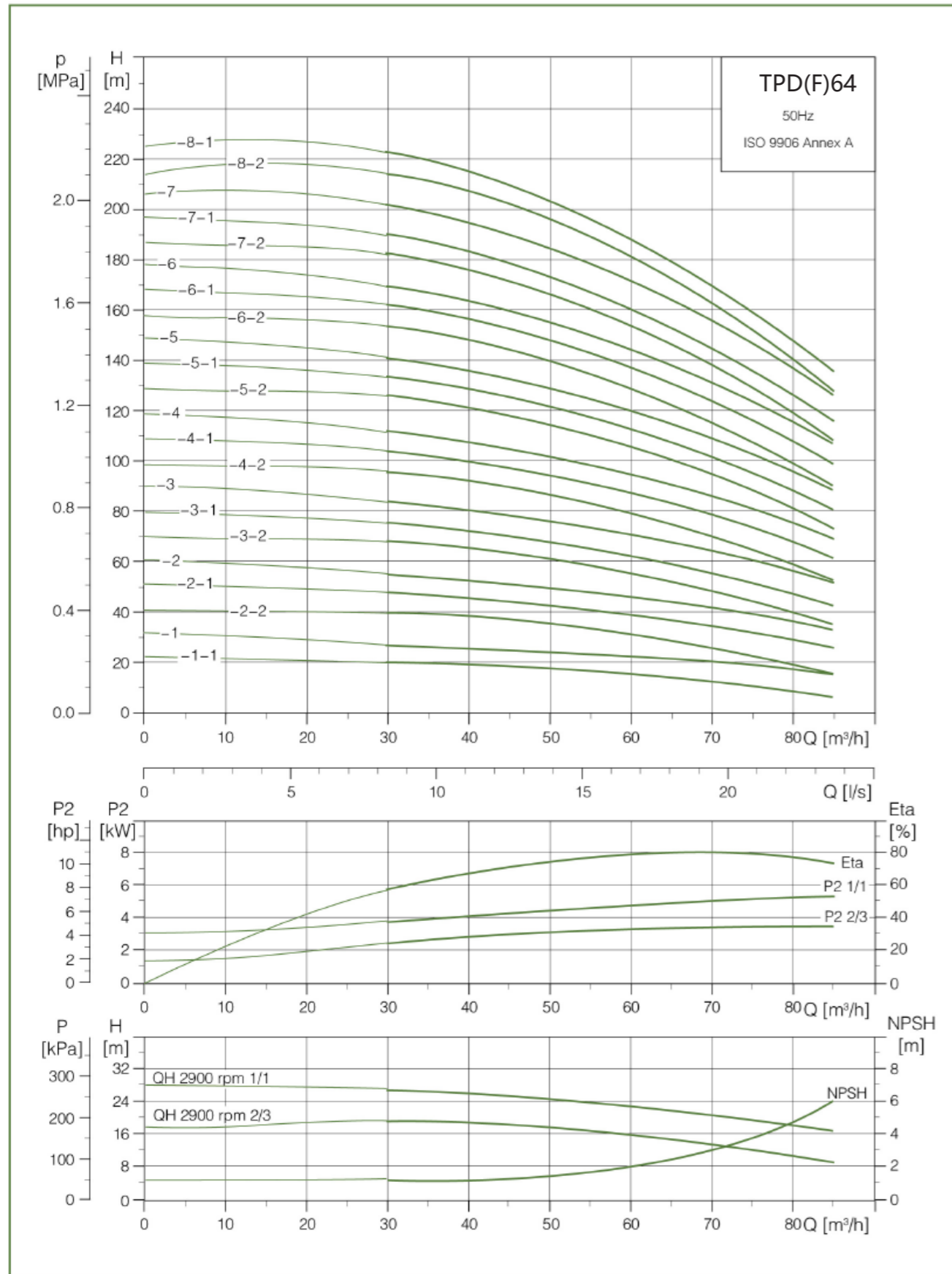
## 外形图 Dimension Figure



## 尺寸和重量 Dimension and Weight

型号 Type	尺寸 Size[mm]					重量 Weight kg
	H1	H2	1+H2	D1	D2	
TPD(F)45-1-1	559	525	1084	290	185	168
TPD(F)45-1	559	525	1084	290	185	171
TPD(F)45-2-2	639	525	1164	290	185	181
TPD(F)45-2	639	525	1164	290	185	187
TPD(F)45-3-2	829	615	1444	390	215	236
TPD(F)45-3	829	615	1444	390	215	238
TPD(F)45-4-2	909	615	1524	390	215	256
TPD(F)45-4	909	615	1524	390	215	259
TPD(F)45-5-2	989	660	1649	420	240	302
TPD(F)45-5	989	660	1649	420	240	305
TPD(F)45-6-2	1069	660	1729	420	240	316
TPD(F)45-6	1069	660	1729	420	240	319
TPD(F)45-7-2	1149	660	1809	420	240	331
TPD(F)45-7	1149	660	1809	420	240	331
TPD(F)45-8-2	1229	660	1889	420	240	337
TPD(F)45-8	1229	660	1889	420	240	337
TPD(F)45-9-2	1309	660	1969	420	240	340
TPD(F)45-9	1309	760	2069	450	280	383
TPD(F)45-10-2	1389	760	2149	450	280	386
TPD(F)45-10	1389	760	2149	450	280	398
TPD(F)45-11-2	1469	760	2229	450	280	401
TPD(F)45-11	1469	760	2229	450	280	430
TPD(F)45-12-2	1549	760	2309	450	280	434
TPD(F)45-12	1549	760	2309	450	280	449
TPD(F)45-13-2	1629	760	2389	450	280	452

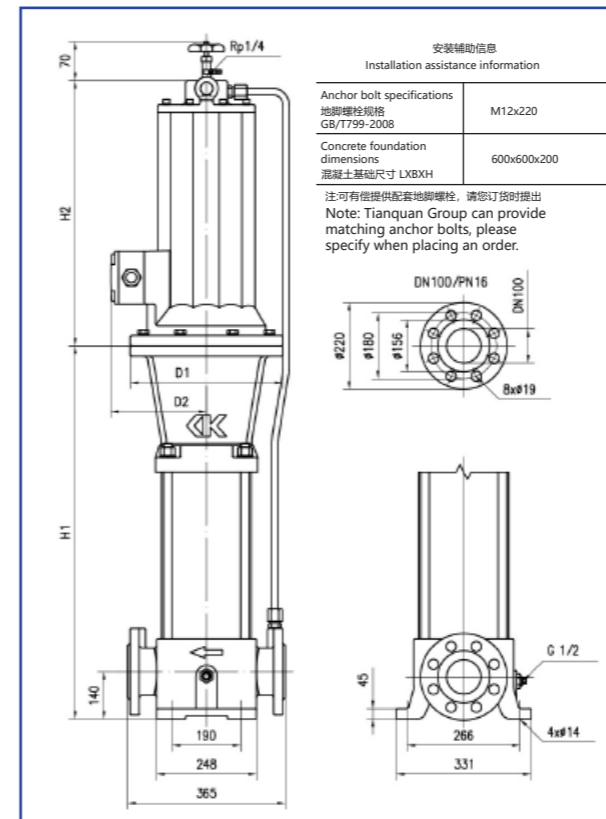
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	30	40	50	60	65	70	80	噪声 Noise dB(A)
	功率 Power(kW)	电流 Current(A)									
TPD(F)64-1-1	3.7	9.3	20	19	17.5	15.5	14	12	8	48	
TPD(F)64-1	5.5	13.5	27	25	23.5	22	21	20	17	48	
TPD(F)64-2-2	7.5	18	40	38	35.5	31	28.5	26	19	48	
TPD(F)64-2-1	9	22	48	45.5	42.5	39	36.5	34.5	29	50	
TPD(F)64-2	11	25.7	55	52.5	49.5	46	44	41.5	36	50	
TPD(F)64-3-2	13	30	68	65.5	61	55.5	51.5	48	40	50	
TPD(F)64-3-1	15	35	75.5	72	68	62.5	59	55.5	47.5	50	
TPD(F)64-3	17	39	84	80	76	70.5	67.5	64	56	50	
TPD(F)64-4-2	18.5	42	96	92.5	87	79.5	74	70	59	52	
TPD(F)64-4-1	20	45	104	100	94.5	87	83	78	67.5	52	
TPD(F)64-4	22	50	112	107	102	94.5	90	85.5	75	52	
TPD(F)64-5-2	25	55	126	122	115	105	100	94	80.5	52	
TPD(F)64-5-1	25	55	134	129	122	113	107	102	88.5	52	
TPD(F)64-5	30	65	141	136	129	120	114	109	96.5	52	
TPD(F)64-6-2	30	65	154	148	140	129	122	116	99	52	
TPD(F)64-6-1	33	72	162	156	148	137	131	124	108	52	
TPD(F)64-6	33	72	170	163	155	144	138	131	115	52	
TPD(F)64-7-2	37	82	182	176	166	154	146	138	119	52	
TPD(F)64-7-1	37	82	190	183	173	161	152	145	126	52	
TPD(F)64-7	40	90	202	195	185	171	163	155	137	55	
TPD(F)64-8-2	40	90	214	207	196	181	172	163	141	55	
TPD(F)64-8-1	45	102	222	215	203	188	179	170	149	55	

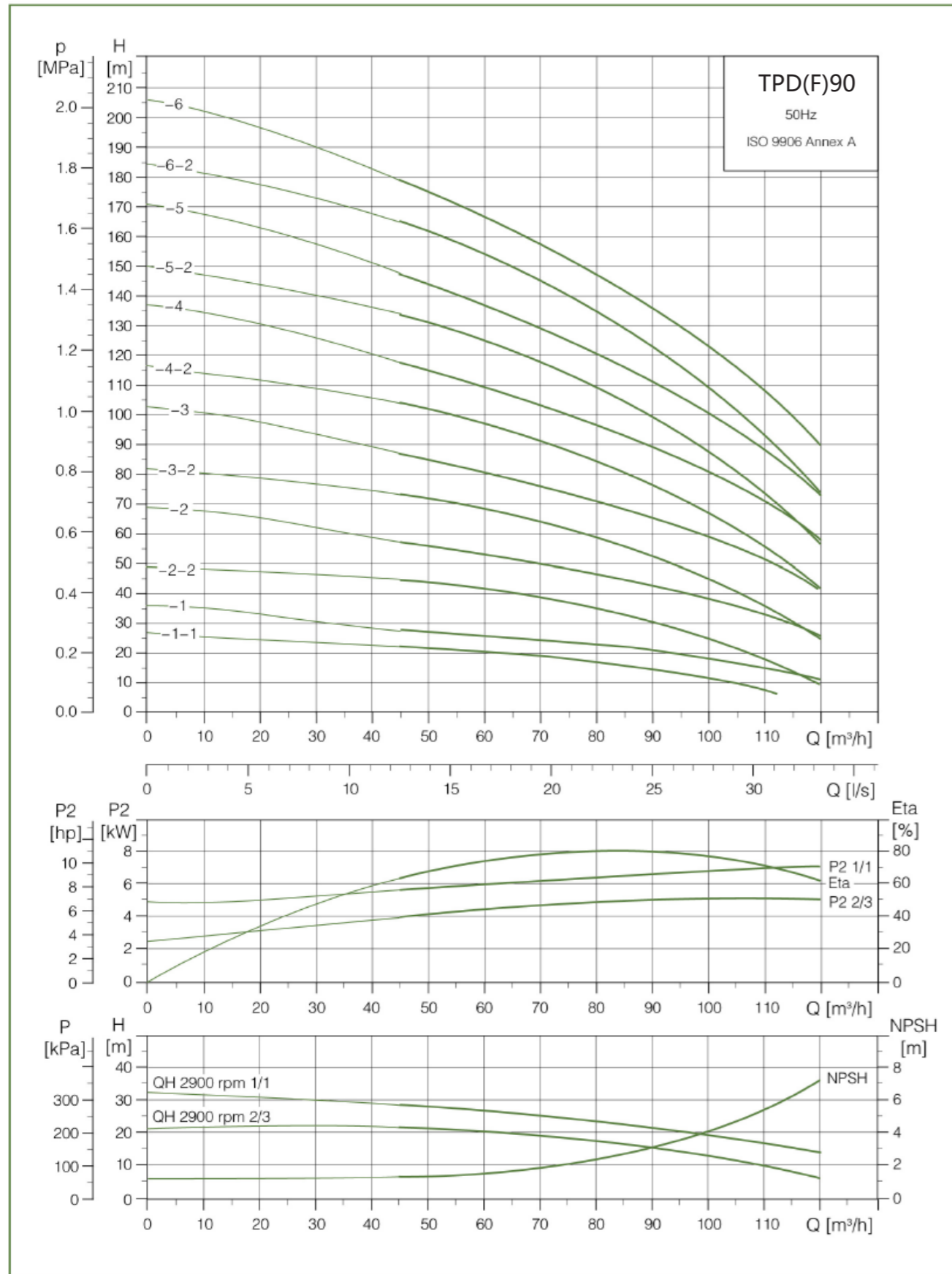
## 外形图 Dimension Figure



## 尺寸和重量 Dimension and Weight

型号 Type	尺寸 Size(mm)					重量 Weight kg
	H1	H2	H1+H2	D1	D2	
TPD(F)64-1-1	561	525	1086	290	185	194
TPD(F)64-1	561	525	1086	290	185	200
TPD(F)64-2-2	644	525	1169	290	185	212
TPD(F)64-2-1	754	615	1369	390	215	256
TPD(F)64-2	754	615	1369	390	215	259
TPD(F)64-3-2	836	615	1451	390	215	278
TPD(F)64-3-1	836	615	1451	390	215	281
TPD(F)64-3	836	660	149	420	240	321
TPD(F)64-4-2	919	660	1579	420	240	328
TPD(F)64-4-1	919	660	1579	420	240	336
TPD(F)64-4	919	660	1579	420	240	338
TPD(F)64-5-2	1001	660	1661	420	240	352
TPD(F)64-5-1	1001	660	1661	420	240	352
TPD(F)64-5	1001	660	1661	420	240	354
TPD(F)64-6-2	1084	660	1744	420	240	359
TPD(F)64-6-1	1084	760	1844	450	280	401
TPD(F)64-6	1084	760	1844	450	280	401
TPD(F)64-7-2	1166	760	1926	450	280	417
TPD(F)64-7-1	1166	760	1926	450	280	417
TPD(F)64-7	1166	760	1926	450	280	446
TPD(F)64-8-2	1249	760	2009	450	280	451
TPD(F)64-8-1	1249	760	2009	450	280	466

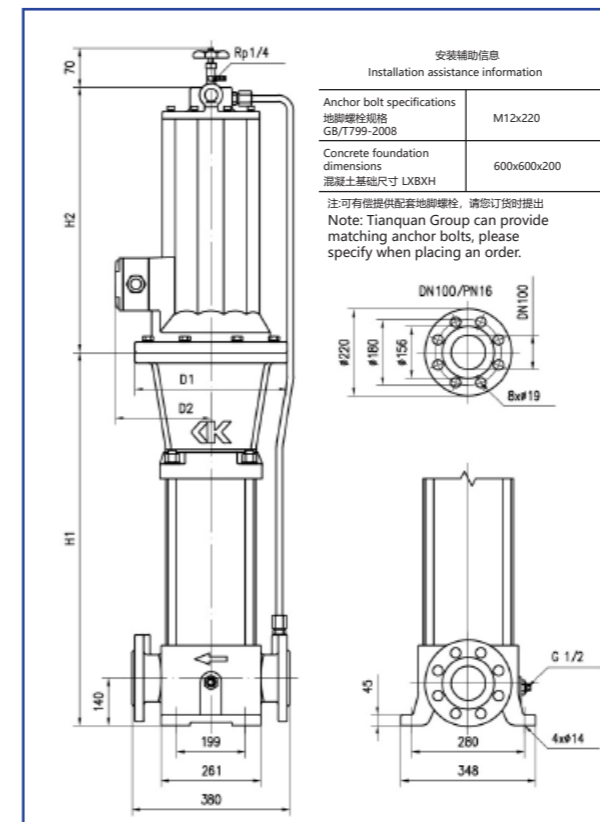
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	45	50	60	70	80	90	100	110	噪声 Noise dB(A)
	功率 Power(kW)	电流 Current(A)										
TPD(F)90-1-1	5.5	13.5	Head 扬程 m	22	21	20	18.5	16.5	13.9	11	6.5	48
TPD(F)90-1	7.5	18		27	26	25	23.5	22	20	17.5	14	48
TPD(F)90-2-2	11	25.7		44	43	41	38.5	34.5	30	24	17	50
TPD(F)90-2	15	35		57	55	52	49.5	46	42.5	38	32	50
TPD(F)90-3-2	18.5	42		73	72	68	64	58	52	44	35	52
TPD(F)90-3	22	50		87	85	80.5	76	71	65.5	58.5	50.5	52
TPD(F)90-4-2	25	55		104	102	97	91.5	84.5	76	66	54.5	52
TPD(F)90-4	30	65		117	115	109	105	96	88.5	80	70	52
TPD(F)90-5-2	33	72		134	131	125	118	109	98.5	86.5	73	52
TPD(F)90-5	37	82		147	144	137	129	121	111	101	87.5	52
TPD(F)90-6-2	40	90		165	162	154	145	135	123	109	92	55
TPD(F)90-6	45	102		178	175	166	157	147	136	123	107	55

## 外形图 Dimension Figure



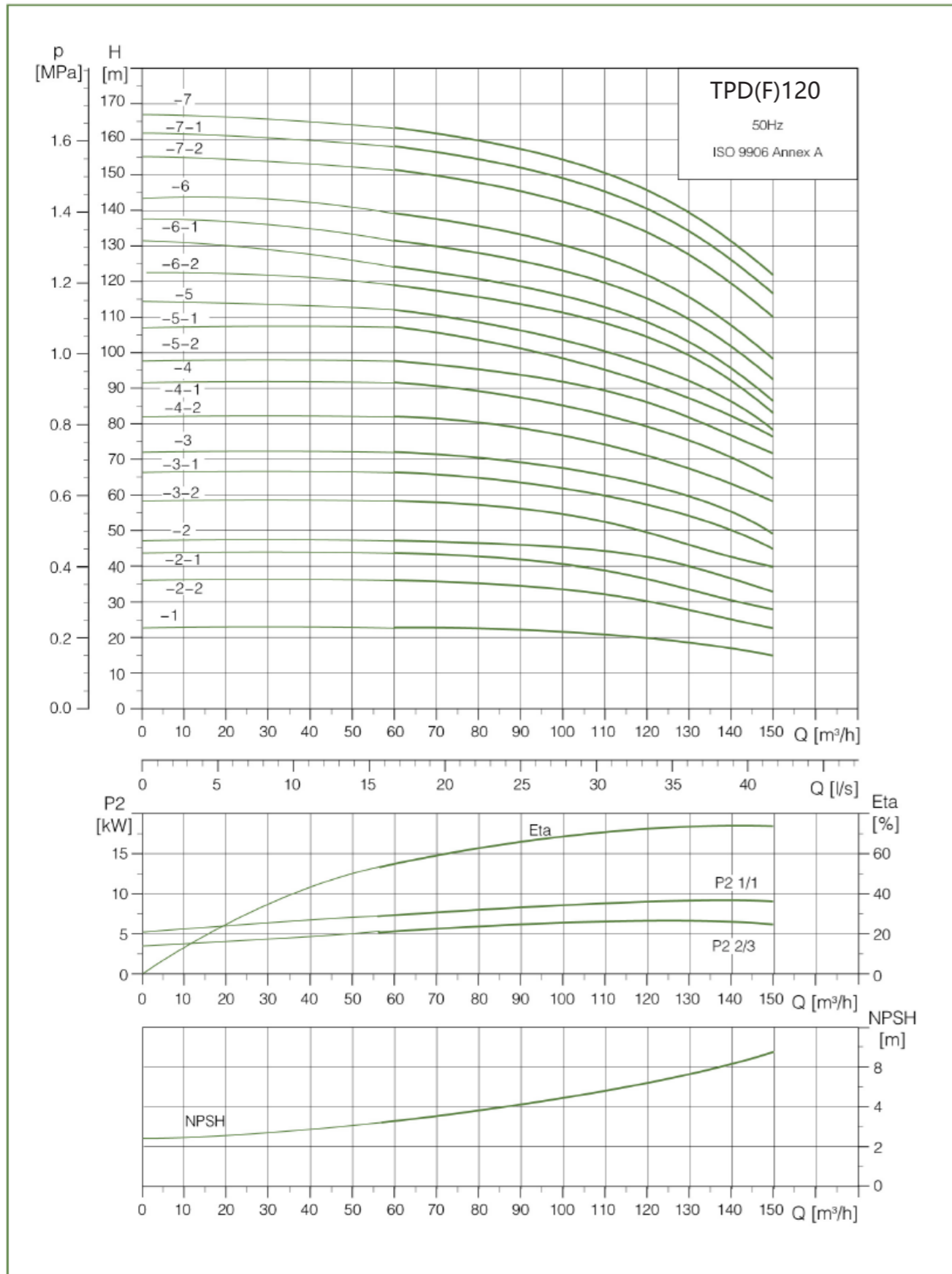
## 尺寸和重量 Dimension and Weight

型号 Type	尺寸 Size[mm]					重量 Weight kg
	H1	H2	H1+H2	D1	D2	
TPD(F)90-1-1	571	525	1096	290	185	214
TPD(F)90-1	571	525	1096	290	185	221
TPD(F)90-2-2	773	615	1388	390	215	273
TPD(F)90-2	773	615	1388	390	215	290
TPD(F)90-3-2	865	660	1525	420	240	337
TPD(F)90-3	865	660	1525	420	240	347
TPD(F)90-4-2	957	660	1617	420	240	361
TPD(F)90-4	957	660	1617	420	240	363
TPD(F)90-5-2	1049	760	1809	450	280	411
TPD(F)90-5	1049	760	1809	450	280	422
TPD(F)90-6-2	1141	760	1901	450	280	455
TPD(F)90-6	1141	760	1901	450	280	470

# TPD(F)120

DN125,2P,2900RPM,50Hz

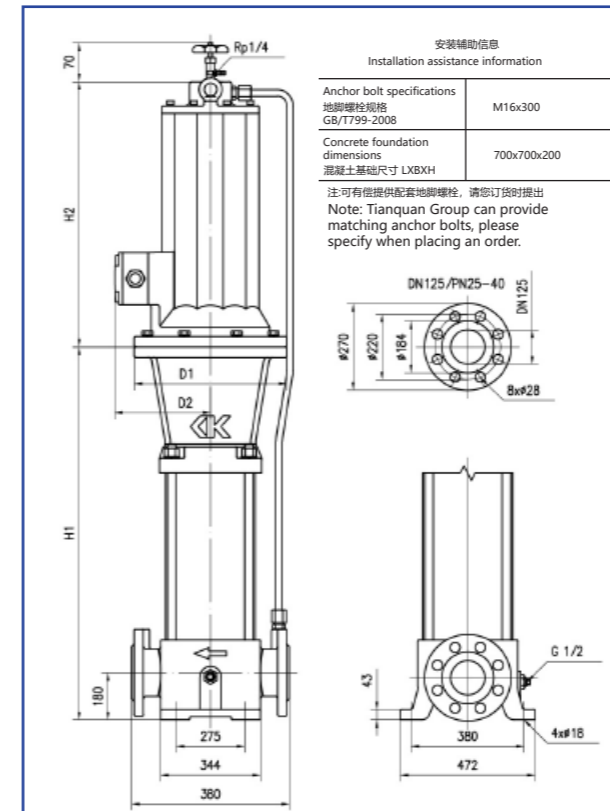
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	60	70	80	90	100	110	120	130	140	150	噪声 Noise dB(A)	
	功率 Power(kW)	电流 Current(A)													
TPD(F)120-1	11	25.7	Head 扬程 m	22	21.8	21.6	21.0	20.5	19.5	18.5	17	16	15	50	
TPD(F)120-2-2	13	30		34	33.6	33	31.0	30.2	30	28.5	27	25	24	24	50
TPD(F)120-2-1	17	39		41	40	39.5	38.5	37	36.5	34.5	32.5	30	27.5	27.5	50
TPD(F)120-2	20	45		46	45	44.5	43.5	42.4	41	40	38	36	34	34	52
TPD(F)120-3-2	25	55		57	56	55	53.5	52	51	49	46.5	43.5	41	41	52
TPD(F)120-3-1	30	65		64	63	62	60	58.5	57.5	55.5	52	49	46	46	52
TPD(F)120-3	30	65		70	68.5	67.5	66	64.4	62.5	61	57.5	54.5	51	51	52
TPD(F)120-4-2	33	72		81	79	78	76	73.5	72	69	66	61.5	58	58	52
TPD(F)120-4-1	37	82		87	86	84.5	82	80	78	76	72	68	64.5	64.5	52
TPD(F)120-4	40	90		92.5	91	90	88	85.5	83	81	77	73	69	69	55
TPD(F)120-5-2	45	102		105	103	101	99	96	93	90	85.5	80.5	76	76	55
TPD(F)120-5-1	45	102		110.5	109	107.5	105	102	100	97	92	86.5	83	83	55
TPD(F)120-5	50	113		115.5	114	113	110	107.5	104.5	101.5	96	91	86	86	55
TPD(F)120-6-2	55	123		128	125.5	123	121	117.3	113.5	110	104.5	98.5	92.5	92.5	55
TPD(F)120-6-1	55	123		134	132	130.5	127	124	121	118	111	105	100	100	55
TPD(F)120-6	63	140		139	137	135.0	132	128.8	126	123	116	110	104	104	57
TPD(F)120-7-2	63	140		151	148	145.5	143	138.6	134	130	123.5	116.5	109	109	57
TPD(F)120-7-1	70	155		156.5	154	152	148.5	144.5	141	137.5	130	123	116.5	116.5	57
TPD(F)120-7	70	155		162.5	160.5	158.5	155	151	148	145	137	129	123	123	57

## 外形图 Dimension Figure



## 尺寸和重量 Dimension and Weight

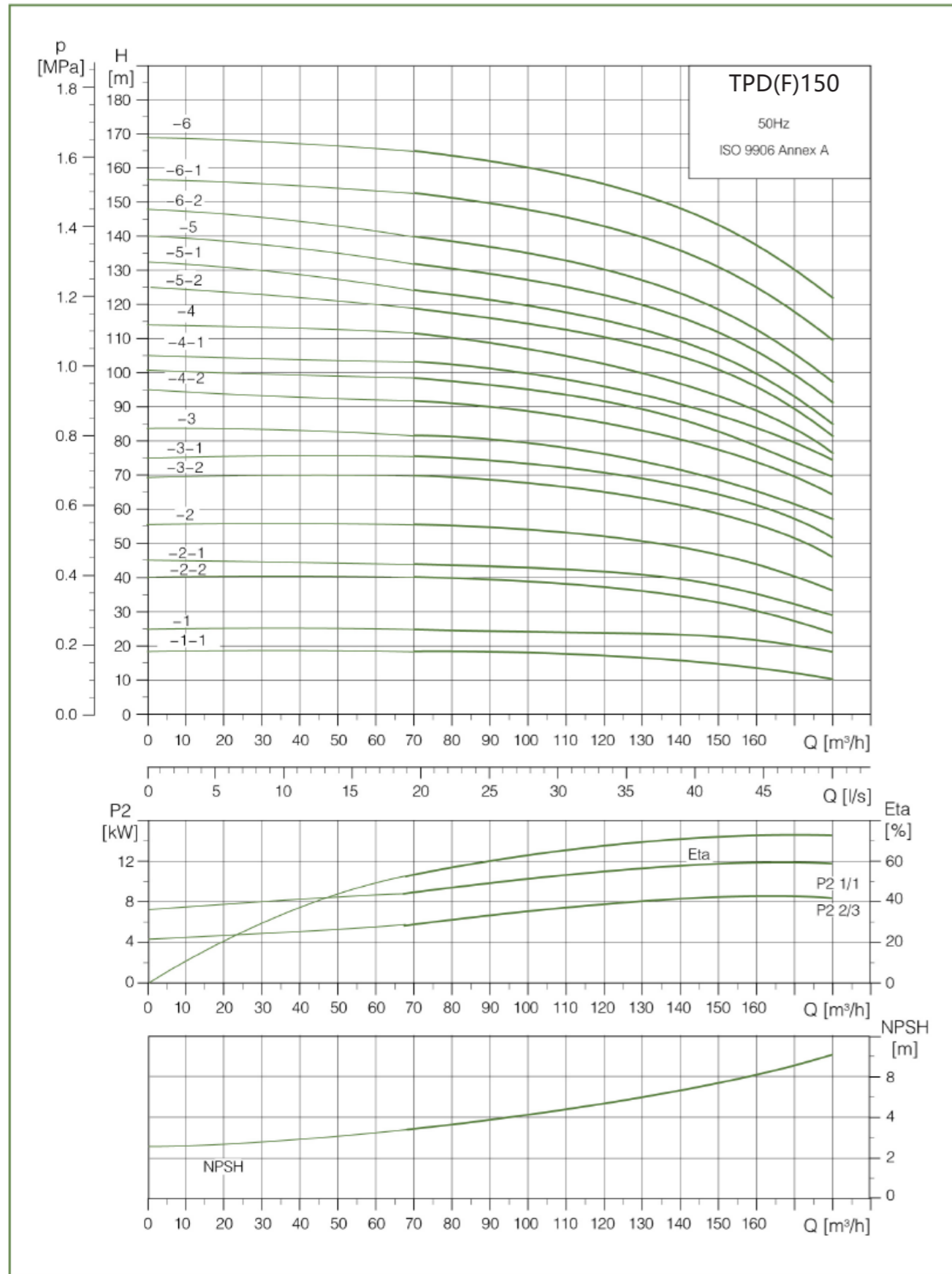
型号 Type	尺寸 Size[mm]					重量 Weight kg
	H1	H2	H1+H2	D1	D2	
TPD(F)120-1	840	615	1455	390	215	329
TPD(F)120-2-2	1000	615	1615	390	215	350
TPD(F)120-2-1	1000	660	1660	420	240	392
TPD(F)120-2	1000	660	1660	420	240	403
TPD(F)120-3-2	1160	660	1820	420	240	420
TPD(F)120-3-1	1160	660	1820	420	240	422
TPD(F)120-3	1160	660	1820	420	240	422
TPD(F)120-4-2	1320	760	2080	450	280	470
TPD(F)120-4-1	1320	760	2080	450	280	482
TPD(F)120-4	1320	760	2080	450	280	511
TPD(F)120-5-2	1480	760	2240	450	280	531
TPD(F)120-5-1	1480	760	2240	450	280	531
TPD(F)120-5	1510	760	2270	450	280	580
TPD(F)120-6-2	1670	760	2430	450	280	597
TPD(F)120-6-1	1670	760	2430	450	280	597
TPD(F)120-6	1830	870	2700	500	300	682
TPD(F)120-7-2	1830	870	2700	500	300	688
TPD(F)120-7-1	1830	870	2700	500	300	699
TPD(F)120-7	1830	870	2700	500	300	699



# TPD(F)150

DN150,2P,2900RPM,50Hz

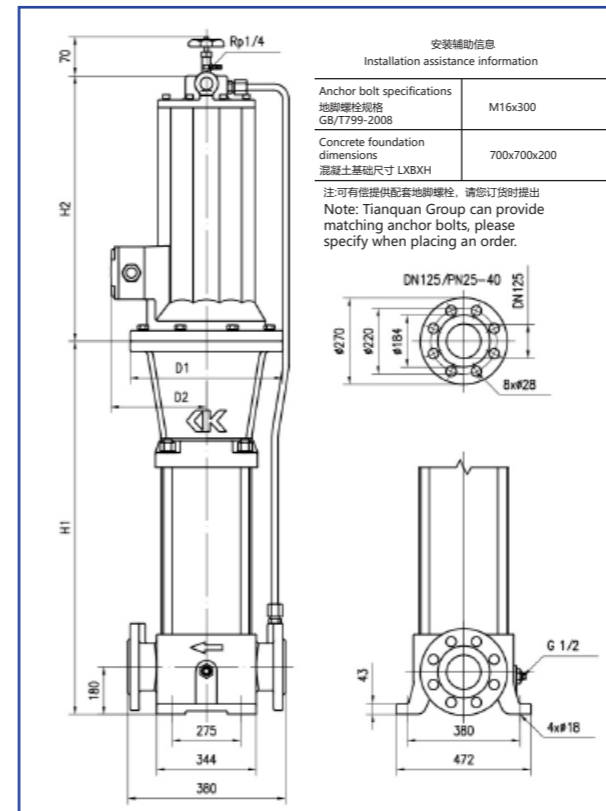
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	扬程 Head m														噪声 Noise dB(A)
	功率 Power(kW)	电流 Current(A)		80	90	100	110	120	130	40	150	160	170	180				
TPD(F)150-1-1	11	25.7	80	18.3	17.8	17.3	17	16	15	14	12.5	11	10	8.5	50			
TPD(F)150-1	13	30	90	24	23	22.5	22	21.5	20.5	20	18.5	17	16	15	50			
TPD(F)150-2-2	18.5	42	100	37	35.5	34	33	32	31	29	27.5	26	23	21	52			
TPD(F)150-2-1	22	50	110	44.3	43	42	40	39	38.5	37.5	35	33	30	27	52			
TPD(F)150-2	25	55	120	50	49	48	47	45.5	44	42	40	37	34	32	52			
TPD(F)150-3-2	30	65	130	53.5	61	59	57.5	56	54.5	53	49	45.5	42	39	52			
TPD(F)150-3-1	33	72	140	70	68	67	65	63	62	60	56	53	49	45	52			
TPD(F)150-3	37	82	150	78	76.5	75	73	70.5	68	66	63	59	55	50.5	52			
TPD(F)150-4-2	40	90	160	89	87	84	81.5	79	77	74.5	70.5	65.5	60	56	55			
TPD(F)150-4-1	45	102	170	96.5	94	91.5	89	86.5	84	81.5	77	72.5	67	62	55			
TPD(F)150-4	50	113	180	104	102	100	97	95	91	88	84	79.5	74	68	55			
TPD(F)150-5-2	55	123	190	115.5	112	109	106	102.5	100	97	92	86	79	73.5	55			
TPD(F)150-5-1	63	140	200	122.5	119.5	117	113.5	111.5	107.5	104.5	99	93.5	87	80	55			
TPD(F)150-5	63	140	210	130	127.5	125	121	119	115	111.5	106.5	101	94.5	86.5	57			
TPD(F)150-6-2	63	140	220	140	137	133	130	126	121	118	112	106	98	91	57			
TPD(F)150-6-1	70	155	230	48.5	145	141.7	137.5	135	131	127	120.5	114.5	106.5	97.5	57			
TPD(F)150-6	70	155	240	157	153	149	145	142	139.5	137	130	123.5	116	109	57			

## 外形图 Dimension Figure



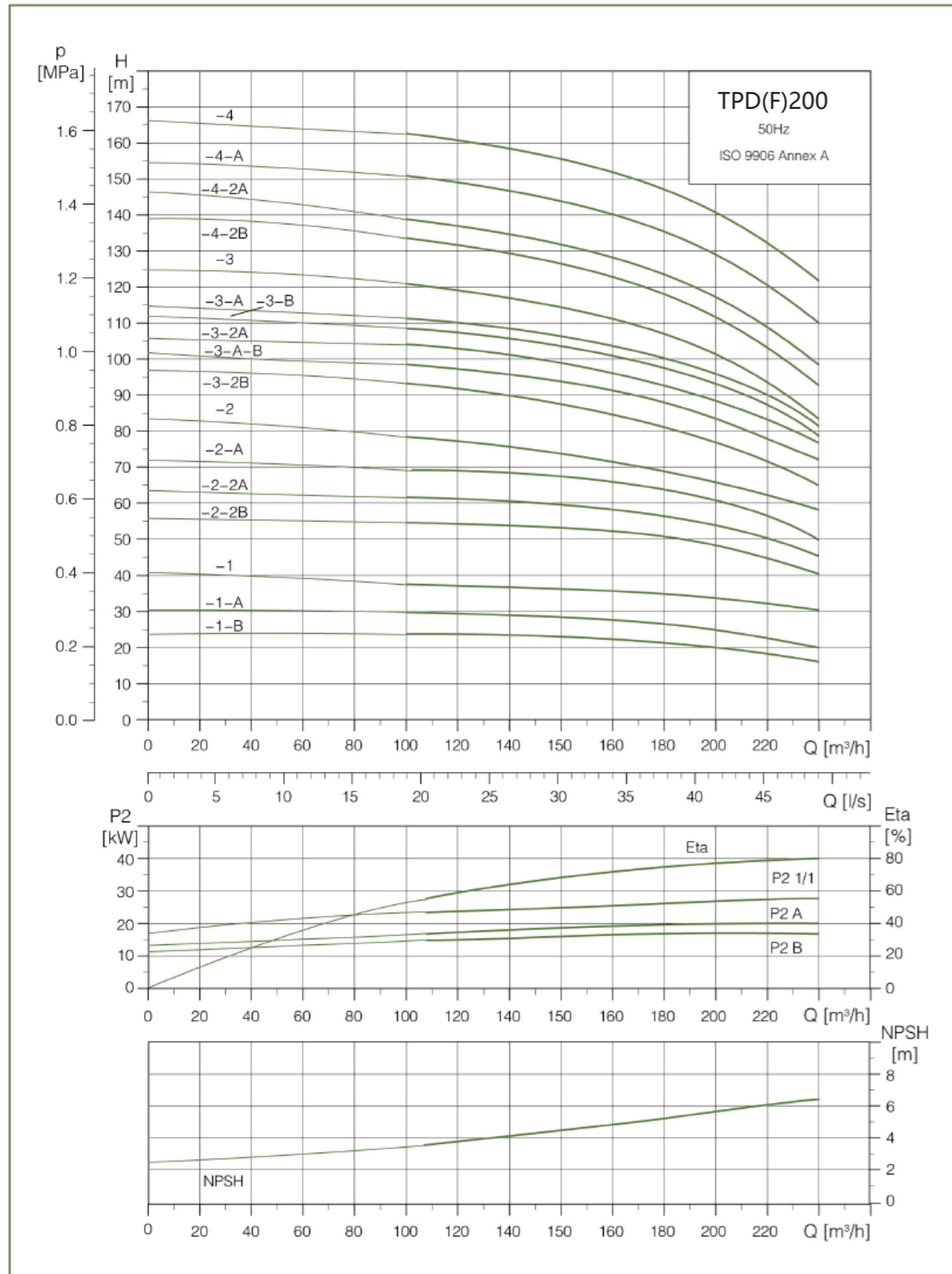
## 尺寸和重量 Dimension and Weight

型号 Type	尺寸 Size[mm]					重量 Weight kg
	H1	H2	H1+H2	D1	D2	
TPD(F)150-1-1	840	615	1455	390	215	331
TPD(F)150-1	840	615	1455	390	215	346
TPD(F)150-2-2	1000	660	1660	420	240	397
TPD(F)150-2-1	1000	660	1660	420	240	407
TPD(F)150-2	1000	660	1660	420	240	416
TPD(F)150-3-2	1160	660	1820	420	240	424
TPD(F)150-3-1	1160	760	1920	450	280	467
TPD(F)150-3	1160	760	1920	450	280	478
TPD(F)150-4-2	1320	760	2080	450	280	513
TPD(F)150-4-1	1320	760	2080	450	280	528
TPD(F)150-4	1350	760	2110	450	280	576
TPD(F)150-5-2	1510	760	2270	450	280	593
TPD(F)150-5-1	1510	760	2270	450	280	593
TPD(F)150-5	1510	870	2380	500	300	679
TPD(F)150-6-2	1670	870	2540	500	300	684
TPD(F)150-6-1	1670	870	2540	500	300	696
TPD(F)150-6	1670	870	2540	500	300	696

# TPD(F)200

DN150,2P,2900RPM,50Hz

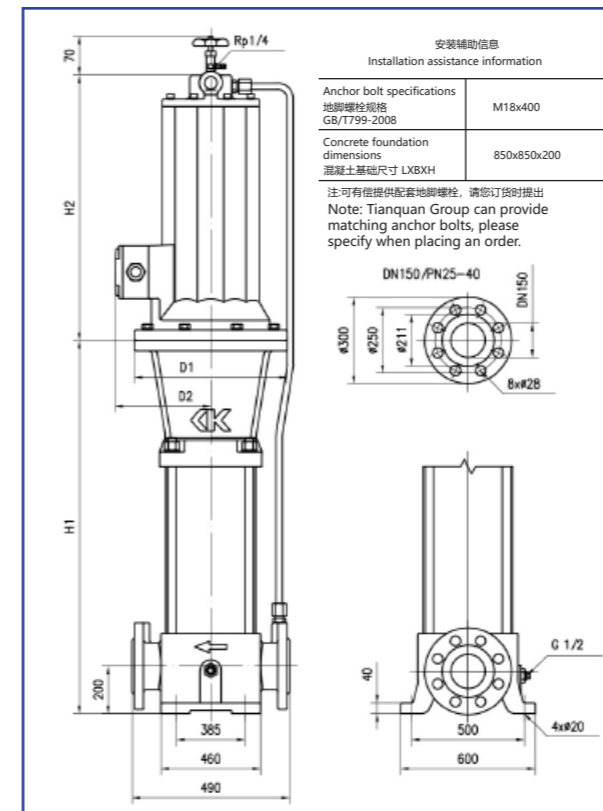
## 性能曲线 Characteristic Curves



## 性能参数 Parameters Table

型号 Model	电机 Motor		流量 Flow	100	120	140	160	180	200	220	240	噪声 Noise dB(A)
	功率 Power(kW)	电流 Current(A)										
TPD(F)200-1-B	18.5	42	Head 扬程 m	25.5	25	24	23	21.5	20	18	15.5	52
TPD(F)200-1-A	22	50		29	28.5	27.5	26.5	25.5	24	22	20	52
TPD(F)200-1	30	65		38.5	38	37.5	36.5	35	34	32.5	30	52
TPD(F)200-2-2B	37	82		53	51	49	47	44	41	37	32	52
TPD(F)200-2-2A	40	90		59.5	58	56	54	52.5	49	44.5	40.5	55
TPD(F)200-2-A	50	113		69	68	66	64	62	59	55.5	51	55
TPD(F)200-2	55	123		78.5	77.5	76	74	71.5	69	66	61.5	55
TPD(F)200-3-2B	63	140		91.5	89	86.5	83.5	79	75	70	63	57
TPD(F)200-3-A-B	70	155		95	93	90	87	83.5	79	73.5	67	57
TPD(F)200-3-2A	70	155		99.5	97.5	94.5	91.5	89	84	78.5	72	57
TPD(F)200-3-B	75	165		104.5	102.5	100	97	93	89	84.5	77.5	57
TPD(F)200-3-A	75	165		108	106	103.5	100.5	97.5	93	88	81.5	57
TPD(F)200-3	90	201		117.5	116	113.5	110.5	107	103	99	92	57
TPD(F)200-4-2B	90	201		131.5	129	125.5	121	115.5	110	103.5	94	57
TPD(F)200-4-2A	100	228		138.5	136	132	128	124	118	111	102.5	57
TPD(F)200-4-A	110	255		148	145.5	142.5	138	134	128	122	113	57
TPD(F)200-4	110	255		157.5	155.5	152.5	148	143.5	138	132.5	123.5	57

## 外形图 Dimension Figure



## 尺寸和重量 Dimension and Weight

型号 Type	尺寸 Size[mm]					重量 Weight kg
	H1	H2	H1+H2	D1	D2	
TPD(F)200-1-B	907	660	1567	420	240	466
TPD(F)200-1-A	907	660	1567	420	240	476
TPD(F)200-1	907	660	1567	420	240	488
TPD(F)200-2-2B	1101	760	1861	450	280	547
TPD(F)200-2-2A	1101	760	1861	450	280	576
TPD(F)200-2-A	1131	760	1891	450	280	639
TPD(F)200-2	1131	760	1891	450	280	651
TPD(F)200-3-2B	1325	870	2195	500	300	742
TPD(F)200-3-A-B	1325	870	2195	500	300	753
TPD(F)200-3-2A	1325	870	2195	500	300	753
TPD(F)200-3-B	1325	870	2195	500	300	765
TPD(F)200-3-A	1325	870	2195	500	300	765
TPD(F)200-3	1325	950	2275	550	330	937
TPD(F)200-4-2B	1519	950	2469	550	330	943
TPD(F)200-4-2A	1519	950	2469	550	330	989
TPD(F)200-4-A	1519	950	2469	550	330	1001
TPD(F)200-4	1519	950	2469	550	330	1001