



科恩特愿与您携手共进，共创辉煌！

Keente Pump is willing to work together with you and create brilliant!



大连科恩特泵业有限公司  
DALIAN KEENTE PUMP CO.,LTD.

地址：辽宁省大连市甘井子区辛寨子街道前革工业园  
电话：+86-0411-86734782 86735891  
传真：+86-0411-86734782  
邮箱：keente@163.com  
网址：www.kntpumps.com  
邮编：116039

Address: Qiange Industrial Park, Xinzhaizi Street, Ganjingzi District, Dalian City, Liaoning Province, China  
Tel:+86-0411-86734782 86735891  
Fax: +86-0411-86734782  
Email: keente@163.com  
Website: www.kntpumps.com  
P.C.: 116039

大连科恩特泵业有限公司  
DALIAN KEENTE PUMP CO.,LTD.

# 公司简介 Company Profile

# 公司资质 Company Qualification

## 关于科恩特 ABOUT KEENTE PUMP

大连科恩特泵业有限公司前身是大连耐腐蚀泵三厂，1989年5月建厂，是生产石油化工离心泵的专业厂家。

公司占地面积35000平方米，固定资产8800万元，注册资金一亿零伍拾万元整。

公司现有员工221人，其中高级、中级职称工程师等技术人员32人，技师86人。

主要生产各种中、高端工业用泵，产品符合美国石油协会API标准、国际ISO标准、德国DIN标准、美国ANSI标准以及国家GB等多种国际、国内最先进的泵设计制造标准。

公司年产化工泵5000余台套，年产值1.8亿元，其中出口额达到0.73亿元。

The former of "Dalian Keente Pump Co., Ltd." is "Dalian Third Corrosion-Resistant Pump Factory. It was established in May, 1989 as a professional manufacturer of centrifugal pumps in petrochemical industry.

Factory covers an area of 35,000 square meters. Keente Pump has fixed assets of RMB 88 million and its registered capital reaches RMB 100.5 million.

The company has 221 employees, including 32 senior & intermediate technicians and 86 technicians.

Keente Pump mainly manufactures kinds of industrial pumps at medium and high-end level. Pumps conform to "American Petroleum Institute API standard", "International ISO standard", "German DIN standard", "American ANSI standard", "National GB" and other most advanced pump design and manufacturing standards internationally and domestically.

We have achieved an annual output of more than 5000 sets of chemical pumps, with an annual output value of RMB 180 million, of which exports amounting to RMB 73 million.



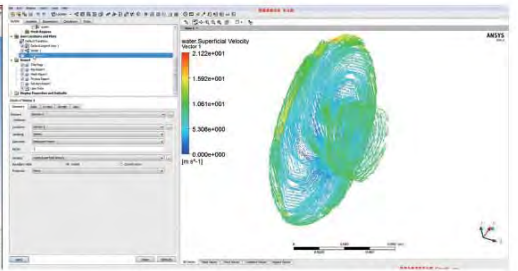
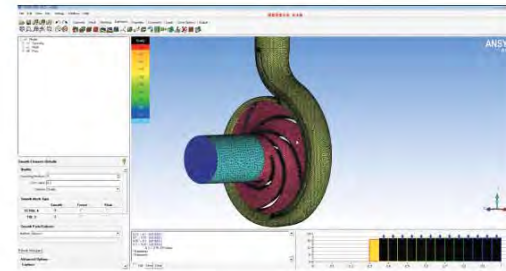
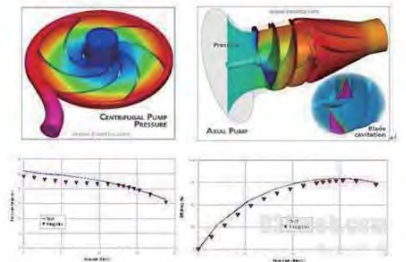
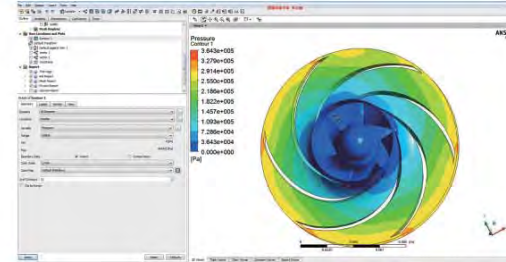
# 公司资质 Company Qualification



## 技术研发 Technology Research & Development

产品开发全面使用CAD、CAXA等绘图软件  
CAPP计算机辅助工艺系统软件  
Pro/E、solidworks三维设计造型软件  
CFD三维流体模拟分析系统软件  
ANSYS有限元分析软件  
PUMPCAD水利辅助设计设计软件

For product development, we employ:  
CAD, CAXA and other drawing software  
CAPP Computer Aided Process System software  
Pro/E, solidworks 3D design modeling software  
CFD 3D fluid simulation analysis system software  
ANSYS finite element analysis software  
PUMPCAD water conservancy aid design software





## 生产能力——机加能力 Machining Capacity

加工设备：数控加工中心、数控车床以及其他机加工设备115台套  
能力参数：车削直径2.5m 车削长度6.0m 磨削长度3.0m

Processing equipment: CNC machining center, CNC lathe and other machining equipment, 115 sets  
Capability parameters: turning diameter 2.5m, turning length 6.0m, grinding length 3.0m.



## 生产能力——铸造能力 Casting Ability

铸造设备：250Kg-3000Kg炼钢炉6台，热处理、混砂、造型、精密铸造等设备30余台套。  
年生产能力：1800吨

铸造材料：各种镍基合金、铁基合金、双相不锈钢、各种奥氏体不锈钢等耐腐蚀材料。

Casting Equipment:  
250Kg-3000Kg steelmaking furnace, 6 sets  
Equipment for heat treatment, sand mixing, modeling and precision casting, more than 30 sets  
Annual Production Capacity: 1800 tons  
Casting Materials: various nickel-based alloys, iron-based alloys, duplex stainless steel, all austenitic stainless steel and other corrosion-resistant materials.





质量控制

Quality Control

动平衡设备  
型号：HPM-800  
精度：可达ISO1940 G1.0  
平衡重量：800kg  
平衡转速：6000r/min

Dynamic Balancing Equipment  
Model: HPM-800  
Accuracy: up to ISO1940 G1.0  
Balance weight: 800kg  
Balance speed: 6000r/min

物理化学试验设备  
X射线探伤仪  
电子万能试验机  
金属摆锤冲击试验机  
涂层测厚仪  
光谱分析仪  
液体渗透  
超声波无损探伤

Physical and Chemical Test Equipment  
X-ray flaw detector  
Electronic universal testing machine  
Metal pendulum impact testing machine  
Coating thickness gauge  
Spectrum analyzer  
Liquid penetration  
Ultrasonic nondestructive testing

性能试验  
最大试验流量  
可达2000 m<sup>3</sup>/h  
最大试验扬程  
可达3000m  
最大试验功率  
可达2000KW

Performance Test  
The maximum test flow:  
up to 2000 m<sup>3</sup>/h  
The maximum test head:  
up to 3000m  
The maximum test power:  
up to 2000KW



X射线探伤仪  
X-ray Flaw Detector



涂层测厚仪  
Coating Thickness Gauge



液体渗透  
Liquid Penetration



电子万能试验机  
Electronic Universal Testing Machine



金属摆锤冲击试验机  
Metal Pendulum Impact Testing Machine



动平衡机  
Dynamic Balancing Machine



超声波无损探伤  
Ultrasonic Nondestructive Testing



性能试验台  
Performance Test Bed



泵性能力待检验  
Pumps Ready for Performance Test



## 售后服务体系 Service System

公司设有专业售后服务团队，可为用户提供最完善的技术支持和调试维修服务。  
公司拥有完善的成品、半成品仓库，能够保证对用户及时便利的备件服务。  
售后服务承诺：接到用户售后服务请求后，2小时内做出反应，4小时内给出书面处理意见，24小时内达到现场。

The company has a professional after-sales service team to provide users with the most complete technical support and commissioning repair services.

Keente Pump owns a complete warehouse of finished products and semi-finished products, which can guarantee the timely and convenient spare parts service for users.

After-sales service commitment: After receiving the customer's after-sales service request, respond within 2 hours, give written treatment within 4 hours, and reach the scene within 24 hours.



## S 服务领域 Service Field



石油和化工  
Petroleum and Chemical Industry



煤化工  
Coal Chemical



电力  
Power



医药  
Pharmaceuticals



水处理  
Water Treatment



冶金  
Metallurgy



造纸  
Paper Making



粮食深加工  
Grain Processing

## 产品目录 PRODUCTS CATALOGUE

KOA系列-标准化工流程泵 KOA Series - Standard Chemical Process Pump	01-02
KOB ( C ) 系列-石油化工流程泵 KOB(C) Series - Petrochemical Process Pump	03-04
KOD系列-标准化工泵 KOD Series - Standard Chemical Pump	05-06
KOE系列-自吸式化工泵 KOE Series - Self-priming Chemical Pump	07-08
KOF系列-高效自吸泵 KOF Series - Self-priming Pump with High Efficiency	09-10
KOH ( K ) 系列-石油化工流程泵 KOH(K) Series - Petrochemical Process Pump	11-12
KOM系列-小流量化工流程泵 KOM Series - Small Flow Chemical Process Pump	13-14
KOP ( S ) 系列-重型石油化工流程泵 KOP(S) Series - Heavy Petrochemical Process Pump	15-16
KOT系列-立式管道泵 KOT Series - Vertical Pipeline Pump	17-18
KBA系列-轴向剖分双吸泵 KBA Series - Axial Split Double Suction Pump	19-20
KBB系列-重工位石油化工流程泵 KBB Series - Heavy Duty Petrochemical Process Pump	21-22
KBC系列-水平中开多级泵 KBC Series - Horizontal Split Multistage Pump	23-24
KBD系列-卧式多级泵 KBD Series - Horizontal Multistage Pump	25-26

## 产品目录 PRODUCTS CATALOGUE

KBE系列-卧式次高压多级泵 KBE Series - Horizontal Secondary High-pressure Multistage Pump	27-28
KBF ( H ) 系列-卧式高压多级泵 KBF (H) Series - Horizontal High-pressure Multistage Pump	29-30
KVA系列-立式单壳导流泵 KVA Series - Vertical Single-Shell Diversion Pump	31-32
KVD ( E ) 系列-立式长轴液下泵 KVD (E) Series - Vertical Long Shaft Submerged Pump	33-34
KVF系列-立式夹套液下泵 KVF Series - Vertical Jacket Submerged Pump	35-36
KVG系列-液下多级泵 KVG Series - Submerged Multistage Pump	37-38
KVH系列-高温浓硫酸液下泵 KVH Series - High-temperature Concentrated Sulfuric Acid Submerged Pump	39-40
KVK系列-悬臂液下泵 KVK Series - Cantilevered Submerged Pump	41-42
KVM系列-立式筒袋泵 KVM Series - Vertical Barrel Pump	43-44
KOW系列-混流泵 KOW Series - Mixed Flow Pump	55-46
KOX系列-卧式轴流泵 KOX Series - Horizontal Axial Flow Pump	47-48
KVP系列-立式多级泵 KVP Series - Vertical Multistage Pump	49-50
KFB系列-立式无密封自控自吸泵 KFB Series - Vertical Non-seal and Self-control Self-priming Pump	51-52

# P 产品介绍

## Product Introduction

### KOA系列-标准化工流程泵 KOA Series - Standard Chemical Process Pump

#### 概述

该系列泵为卧式、单级、单吸、悬臂式离心泵，设计标准为DIN24256、ISO2858、GB5656。

该系列泵具有可靠、稳定、高效的水力性能，性能点符合国际标准要求、产品结构简单可靠，通用性强，维修方便简单。

#### 应用范围

该系列泵主要用于化学、石油化工、炼油厂、煤化工、发电厂、造纸业、制药业、制糖业、食品、炼钢厂、废酸处理、给排水、城市供水、粮食深加工等行业。

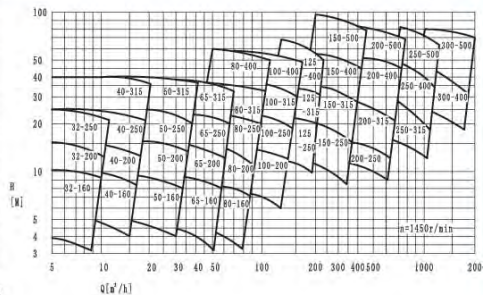
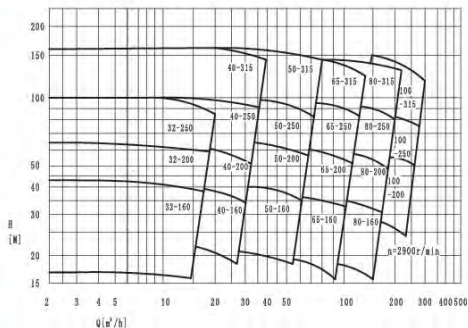
#### Overview

KOA pump is a centrifugal pump of horizontal, single-stage, single-suction and cantilevered type, and is designed as per DIN24256, ISO2858, and GB5656.

This series of pumps have reliable, stable and efficient hydraulic performance. The performance points meet the requirements of international standards. Pump structure is simple and reliable; the versatility is strong; also the maintenance is convenient and simple.

#### Application Range

This series of pumps are mainly used in chemical, petrochemical, refinery, coal chemical, power plant, paper industry, pharmaceutical industry, sugar industry, food, steelmaking, waste acid treatment, water supply and drainage, urban water supply, food deep processing as well as other industries.



#### 结构特点

- ① 叶轮采用背叶片或平衡孔结构来平衡轴向力，残余轴向力由轴承承受。
- ② 轴承采用稀油润滑，采用恒位油杯和可视油窗来控制润滑油位。
- ③ 护轴结构，用轴套保护，防止介质直接与接触发生腐蚀，提高轴的使用寿命和可靠性。
- ④ 采用后拖式设计，可不必拆卸进出口管路和电机，整个转子部件即可从后部拉出，维修方便。

#### Structural Features

- ① The impeller has a back blade or balanced hole structure to balance the axial force, and the residual axial force is absorbed by the bearing.
- ② The bearing is lubricated with thin oil, and the constant oil cup and visual oil window are used to control the lubricating oil level.
- ③ A bushing is used to protect shaft to prevent it from medium contact. This structure avoids shaft to be corrosive by medium. It can improve the service life and reliability of the shaft.
- ④ It is not necessary to dismantle the pipes at inlet and outlet, and the motor by the rear drag design. The entire rotor component can be pulled out from the rear for easy maintenance.

#### 性能范围

流量范围：2~2000m<sup>3</sup>/h  
扬程范围：~160m  
适用温度：-40~170℃  
设计压力：2.5MPa

#### Performance Range

Flow range : 2~2000m<sup>3</sup>/h  
Head range : ~160m  
Applicable temperature :  
-40~170℃  
Design pressure : 2.5MPa



## KOB ( C ) 系列-石油化工流程泵 KOB(C) Series - Petrochemical Process Pump

### 概述

该系列泵为卧式、单级、单吸、悬臂式、底脚支撑离心泵，设计标准为API610、GB3215。API代码为OH1。

KOB为常规闭式叶轮设计，KOC为开式叶轮设计。

该系列产品性能覆盖广泛，具有可靠性高、寿命长、工作平稳、通用化程度高、汽蚀及效率高等特点，适用于大多数流程介质的输送工艺。

### 应用范围

该系列泵主要用于炼油厂，石油化工，低温工程，煤化工，化纤和普通工业流程，发电厂，大中型加热及空调装置，环境保护工程，海上工业和海水淡化厂等行业和领域。

### Overview

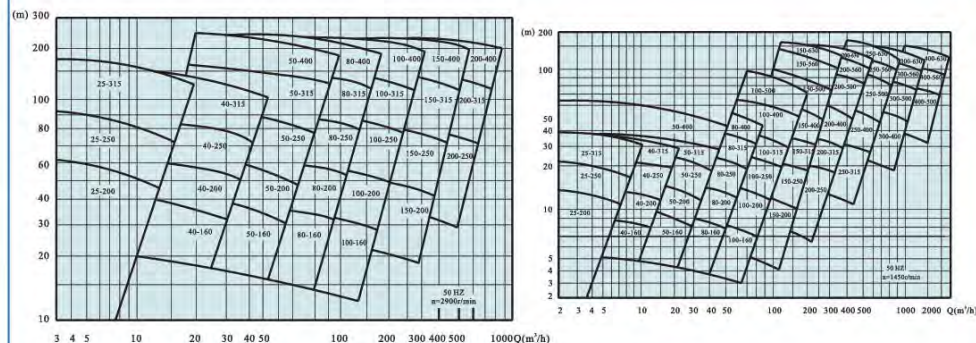
The pumps are horizontal, single-stage, single-suction, cantilevered, and foot-supported centrifugal pumps. The design standards are API 610 and GB3215. API code is OH1.

KOB pump is designed to be a conventional closed impeller type, while KOC pump has an open impeller design.

This series of pumps have a wide range of performance, high reliability, long life, stable operation, high degree of generalization, and high cavitation and efficiency, suitable for the transportation process of most process medium.

### Application Range

This series of pumps are mainly used in oil refineries, petrochemicals, cryogenic engineering, coal chemical, chemical fiber and general industrial processes, power plants, large and medium heating and air conditioning units, environmental protection engineering, offshore industries and desalination plants as well as other industries and fields.



### 产品特点

- ① 轴承悬架为一个整体，采用油浴润滑，由恒位油杯自动调整油位。
- ② 根据工况，轴承悬架可以空冷（设有散热筋片）、水冷却（设有水冷套）。轴承由迷宫式防尘盘密封。
- ③ 电机采用加长节膜片联轴器，维护时，可以在不拆卸管路和电机，非常方便快捷。
- ④ 通用化程度高，全系列共五十三个规格，仅需七种轴承架部件。
- ⑤ 出口直径80mm以上的泵体设计成双蜗壳平衡径向力，因而保证了轴承的使用寿命和轴封处轴的挠度。

### Product Features

- ① The bearing suspension bracket is designed as a whole, which is lubricated by oil bath. The oil level is adjusted by constant oil cup automatically.
- ② According to the working conditions, the bearing suspension bracket can be air-cooled (with cooling ribs) and water-cooled (with water-cooled sleeve). The bearing is sealed by a labyrinth dust disk.
- ③ The motor adopts the extended section diaphragm coupling. It is very convenient and quick to maintain without dismantling pipelines and motor.
- ④ This series of pumps have high degree of generalization. The full range has fifty-three specifications, while only seven types of bearing frame components are needed.
- ⑤ The pump body with an outlet diameter of 80mm or more is designed as double volute type to balance the radial force, thus it ensures the service life of the bearing and the deflection of the shaft at the shaft seal.

### 性能范围

流量范围：2~3000m<sup>3</sup>/h

扬程范围：15~300m

适用温度：-80~200℃

设计压力：2.5MPa

### Performance Range

Flow range : 2~3000m<sup>3</sup>/h

Head range : 15~300m

Applicable temperature : -80~200℃

Design pressure : 2.5MPa



## KOD系列-标准化工泵

## KOD Series - Standard Chemical Pump

### 概述

该系列泵是根据美国国家标准协会的ANSI B73.1M 标准并结合国内外先进的泵制造经验开发出的更新替代产品。超级的通用性和互换性设计不但减少了备件储备与管理费用，而且降低了泵的综合运行成本，使其以其特有的耐用性、可靠性、经济性成为普通化工领域的新型替代产品。

### 应用范围

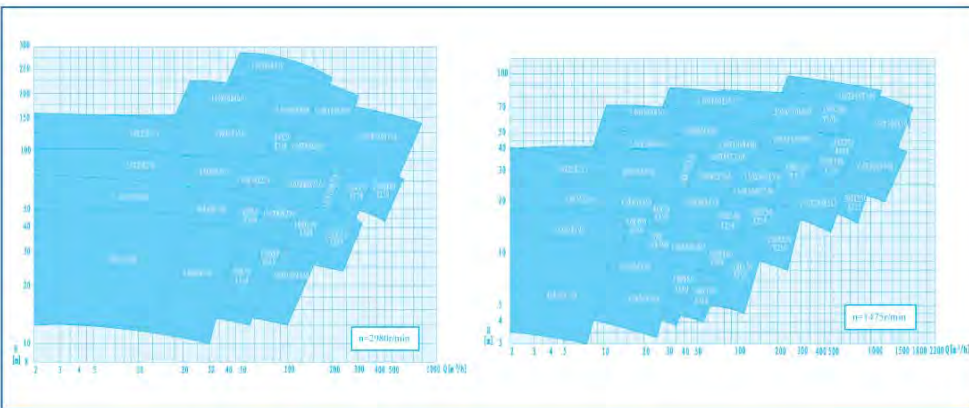
该系列泵主要用于化学、石油化工、炼油厂、煤化工、发电厂、造纸业、制药业、制糖业、炼钢厂、废酸处理、给排水、城市供水、粮食深加工等行业。

### Overview

This series of pumps is an updated replacement. It is based on the American National Standards Institute's ANSI B73.1M standard and combined with advanced pump manufacturing experience at home and abroad. The super versatile and interchangeable design not only reduce spare parts storage and management costs, but also reduce the overall operating cost of the pump, which makes it as a new alternative across the general chemical industry by its unique durability, reliability and economy.

### Application Range

This series of pumps are mainly used in chemical, petrochemical, refinery, coal chemical, power plant, paper, pharmaceutical, sugar, steel, waste acid treatment, water supply and drainage, urban water supply, food deep processing and other industries.



### 产品特点

- ① 叶轮采用背开式结构，与泵盖之间的间隙方便调整。
- ② 泵盖密封腔设计为倒锥形，并设有导流块，可以使密封腔降压并使介质中的杂质远离密封，从而将杂质对密封的冲蚀降低到最小。
- ③ 采用稀油润滑轴承，设计有溅油盘增加润滑和冷却效果，并设计有恒位油杯，确保润滑充分。
- ④ 转子设有轴向调整机构，在不拆泵的情况下可以在外部准确的调整叶轮和泵盖间的间隙，达到调整泵性能的目的，极大的简化了维修过程。

### Product Features

- ① The impeller adopts a back-open structure, and it is easy to adjust the gap between impeller and pump cover.
- ② The seal cavity of pump cover is designed as an inverted cone and is provided with a flow guiding block, which can reduce the pressure in the sealed chamber and keep the impurities in the medium away from the seal, so as to minimize the erosion of impurities on the seal.
- ③ Thin oil is used to lubricate bearings. There are splashing disc to increase lubrication and cooling effect and constant oil cup to ensure sufficient lubrication.
- ④ The rotor is provided with an axial adjustment mechanism, which can allow to adjust the gap between the impeller and the pump cover from outside accurately without removing the pump, thereby it can achieve the purpose of adjusting the performance of the pump and greatly simplify the maintenance process.

### 性能范围

流量范围：2~1500m<sup>3</sup>/h  
扬程范围：~250m  
适用温度：-40~150℃  
设计压力：2.5MPa

### Performance Range

Flow range : 2~1500m<sup>3</sup>/h  
Head range : ~250m  
Applicable temperature : -40~150℃  
Design pressure : 2.5MPa



## KOE系列-自吸式化工泵

## KOE Series - Self-priming Chemical Pump

### 概述

该系列泵是卧式单级单吸自吸离心泵。设计标准为ISO2858,GB5656。

该系列泵采用外混式结构，具有自吸能力强，自吸时间短的特点。产品结构简单可靠，底脚安装，安装维修方便简单。

### 应用范围

该系列泵主要用于化工、石油工业、炼油厂、液罐抽排、罐车卸货、污水抽排、自动控制工程等。

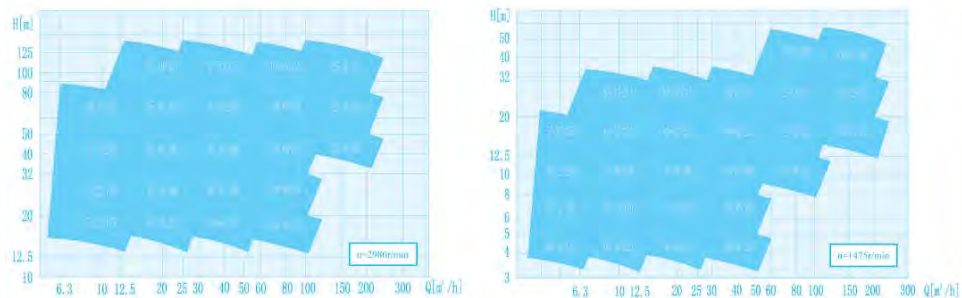
### Overview

This series of pump is a centrifugal pump of horizontal, single-stage, single-suction and self-priming. The design standard is ISO2858 and GB5656.

This series of pumps adopts an external mixing structure, which has the characteristics of strong self-priming ability and short self-priming time. The product structure is simple and reliable by foot-supported, which can make the installation and maintenance convenient and simple.

### Application Range

This series of pumps are mainly used in chemical industry, petroleum industry, oil refinery, liquid tank pumping, tank unloading, sewage pumping, automatic control engineering and so on.



### 结构特点

- ① 泵体自吸设计，采用外混式结构，双层泵体，储液室大，效率高，自吸能力强，压出室为蜗壳式结构。
- ② 闭式叶轮结构，采用背叶片或平衡孔平衡叶轮水力轴向力，参与轴向力由轴承承受。
- ③ 泵轴用轴套保护，不与介质接触，可以防止轴被腐蚀，提高轴的强度和使用寿命。
- ④ 轴承采用一对深沟球轴承承受径向力和残余不平衡轴向力，结构简单安全可靠。
- ⑤ 轴承采用稀油润滑，由恒位油杯控制油位，充分保证轴承在良好的润滑状态下工作。

### Structural Features

- ① It is self-priming design in pump body, and pump adopts external mixing structure, with double-layer pump body, large liquid storage chamber, high efficiency and strong self-priming ability. The ejector chamber is designed as a volute structure.
- ② The impeller is close and has a back blade or balanced hole to balance the axial force of the impeller hydraulic force. The residual axial force is absorbed by the bearing.
- ③ A bushing is used to protect shaft to prevent it from medium contact. This structure avoids shaft to be corrosive by medium. It can improve the service life and reliability of the shaft.
- ④ The bearing adopts a pair of deep groove ball bearings to withstand radial force and residual unbalanced axial force. This structure is simple, safe and reliable.
- ⑤ The bearing is lubricated by thin oil, and the oil level is controlled by the constant oil cup. This can ensure the bearing works in a good lubrication condition.

### 性能范围

- 流量范围：6~200m<sup>3</sup>/h  
扬程范围：~125m  
适用温度：-40~150℃  
设计压力：1.6MPa

### Performance Range

- Flow range : 6~200m<sup>3</sup>/h  
Head range : ~125m  
Applicable temperature : -40~150℃  
Design pressure : 1.6MPa



## KOF系列-高效自吸泵 KOF Series - Self-priming Pump with High Efficiency

### 概述

该系列泵是我公司独立开发设计的新型单级单吸悬臂式自吸离心泵，设计标准API610 11th。该系列泵具有自吸能力强、自吸时间短、寿命长、工作平稳、抗汽蚀性能好的特点。产品结构简单可靠，安装维修方便。

### 应用范围

该系列泵主要用于化工、石油工业、炼油厂、液罐抽排、罐车卸货、污水抽排、自动控制工程等。可输送各种清洁的和含有微量颗粒的易燃、易爆、强腐蚀性等介质。

### Overview

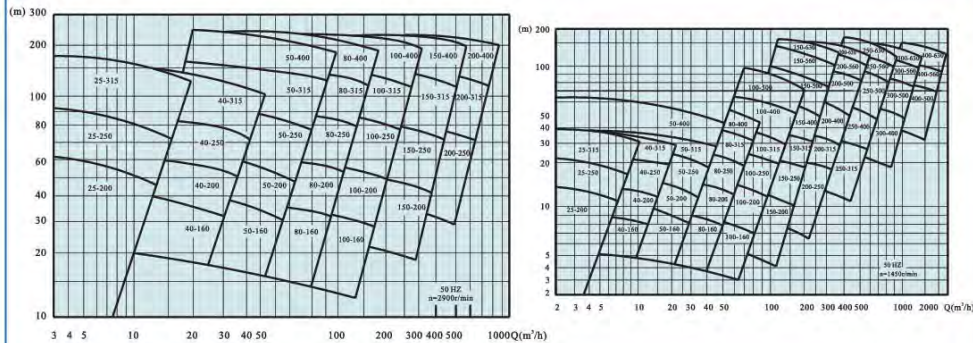
This series of pumps is a new single-stage, single-suction, cantilevered self-priming centrifugal pump, and it is independently developed by our company. The design standard is API610 11th.

This series of pumps has the characteristics of strong self-priming ability, short self-priming time, long service life, stable operation and good anti-cavitation performance.

Pump structure is simple and reliable, and the installation and maintenance are convenient.

### Application Range

This series of pumps are mainly used in chemical industry, petroleum industry, oil refinery, liquid tank pumping, tank unloading, sewage pumping, automatic control engineering and so on. It can transport a variety of clean medium or other medium containing traces of particles, flammable, explosive and highly corrosive.



### 结构特点

- ① 自吸能力强，自吸高度可达7-9米
- ② 自吸时间短，10-15秒完成自吸过程
- ③ 泵入口无需安装底阀，无储液箱
- ④ 结构紧凑简单，占地空间小，维护方便
- ⑤ 无复杂的电路控制系统

### Structural Features

- ① Strong self-priming ability; self-priming height up to 7-9 meters
- ② Short self-priming time, 10-15 seconds to complete the self-priming process
- ③ No bottom valve required for pump inlet, no liquid tank
- ④ Compact and simple structure, small footprint and easy maintenance
- ⑤ No complicated circuit control system

### 性能范围

- 流量范围：~2000m<sup>3</sup>/h
- 扬程范围：~160m
- 适用温度：-40~180°C
- 设计压力：2.5MPa
- 自吸高度：~8m

### Performance Range

- Flow range : ~2000m<sup>3</sup>/h
- Head range : ~160m
- Applicable temperature : -40~180°C
- Design pressure : 2.5MPa
- Self-priming height : ~8m



## KOH ( K ) 系列-石油化工流程泵 KOH(K) Series - Petrochemical Process Pump

### 概述

该系列泵为卧式、单级、单吸、悬臂式、中心支撑离心泵，设计标准为API610、GB3215。API代码为OH2。

KOH为常规闭式叶轮设计，KOK为开式叶轮设计。

该系列产品性能覆盖广泛，极为完善的设计和多种结构适用于大多数流程介质的输送工艺。

### 应用范围

该系列泵主要用于炼油厂，石油化工，低温工程，煤化工，化纤和普通工业流程，发电厂，大中型加热及空调装置，环境保护工程，海上工业和海水淡化厂等行业和领域。

### Overview

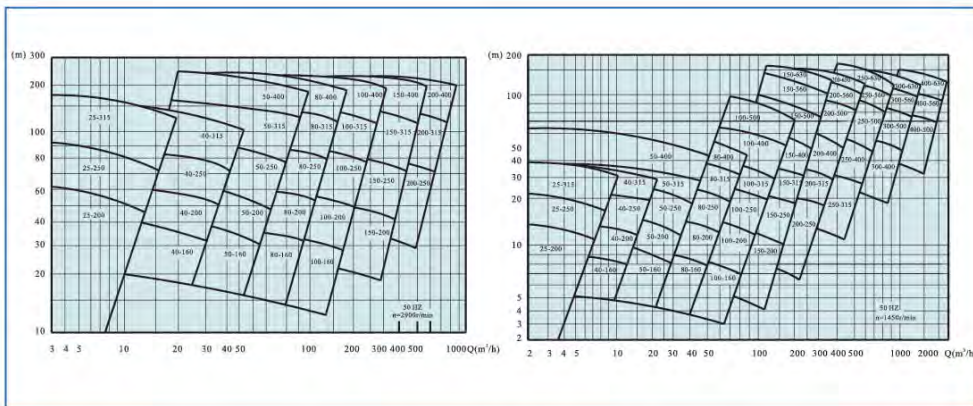
The pumps are horizontal, single-stage, single-suction, cantilevered and centrally supported centrifugal pumps. The design standards are API 610 and GB3215. API code is OH2.

KOH has a conventional design with closed impeller, while KOK is an open impeller design.

Pumps can be applied in the transportation of most process medium because of extensive performance range, extremely sophisticated design and a variety of constructions.

### Application Range

This series of pumps are mainly used in oil refineries, petrochemicals, cryogenic engineering, coal chemical, chemical fiber and general industrial processes, power plants, large and medium heating and air conditioning units, environmental protection engineering, offshore industries and desalination plants, as well as other industries and fields.



### 结构特点

- ① 轴承悬架为一个整体，采用油浴润滑，由恒位油杯自动调整油位。
- ② 根据工况，轴承悬架可以空冷（设有散热筋片）、水冷却（设有水冷套）。轴承由迷宫式防尘盘密封。
- ③ 电机采用加长节膜片联轴器，维护时，可以在不拆御管路和电机，非常方便快捷。
- ④ 通用化程度高，全系列共五十三个规格，仅需七种轴承架部件。
- ⑤ 出口直径80mm以上的泵体设计成双蜗壳平衡径向力，因而保证了轴承的使用寿命和轴封处轴的挠度。

### Structural Features

- ① The bearing suspension has been designed as a whole, which is lubricated by oil bath, and the oil level is adjusted by the constant oil cup automatically.
- ② According to the working conditions, the bearing suspension can be air-cooled (with cooling ribs) and water-cooled (with water-cooled sleeve). The bearing is sealed by a labyrinth dust disk.
- ③ The motor adopts diaphragm coupling with extended section. It is very convenient and quick to maintain without disassembling the pipeline and motor.
- ④ Pumps has high degree of generalization. There are fifty-three specifications in the full range, and only seven types of bearing frame components are needed.
- ⑤ The pump body with an outlet diameter of 80mm or more is designed as double volute type to balance the radial force, thus it ensures the service life of the bearing and the deflection of the shaft at the shaft seal.

### 性能范围

- 流量范围：2~3000m<sup>3</sup>/h  
扬程范围：15~300m  
适用温度：-80~450℃  
设计压力：4.0MPa

### Performance Range

- Flow range : 2~3000m<sup>3</sup>/h  
Head range : 15~300m  
Applicable temperature : -80~450℃  
Design pressure : 4.0MPa



## KOM系列-小流量化工流程泵 KOM Series - Small Flow Chemical Process Pump

### 概述

该系列泵为卧式、单级、单吸、悬臂式、中心支撑离心泵，设计标准为API610、GB3215。API代码为OH2。

该系列泵水力按照小流量高扬程设计理论进行设计，具有优良的水力性能，效率高，汽蚀性能好。

### 应用范围

该系列泵主要用于化工、石油工业、炼油厂、发电厂、造纸、医药、食品、制糖等行业。

### Overview

The pumps are horizontal, single-stage, single-suction, cantilevered, and centrally supported centrifugal pumps. The design standards are API 610 and GB3215. API code is OH2.

The hydraulic power of this series of pumps is designed based on the theory of small flow and high head. It has excellent hydraulic performance, high efficiency and good cavitation performance.

### Application Range

This series of pumps are mainly used in the chemical, petroleum, refinery, power plants, paper, pharmaceutical, food, sugar and other industries.

### 性能范围

流量范围：0.6~12.5m<sup>3</sup>/h

扬程范围：12~125m

适用温度：-80~450°C

设计压力：2.5MPa

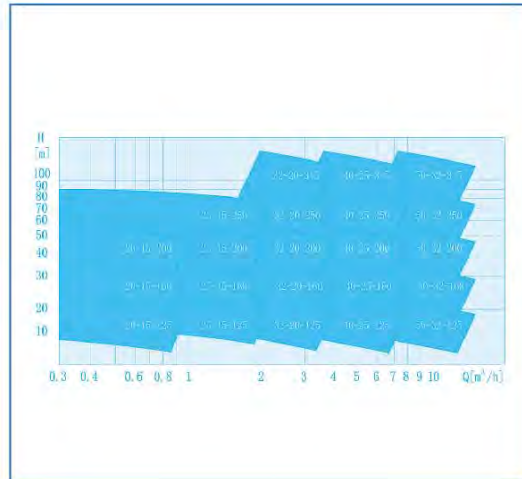
### Performance Range

Flow range : 0.6~12.5m<sup>3</sup>/h

Head range : 12~125m

Applicable temperature : -80~450°C

Design pressure : 2.5MPa



### 产品特点

- ① 通用性强，全系列共二十二个规格，仅需两种轴承架部件。
- ② 优秀的水力模型，小流量高扬程设计，具有较高的效率和汽蚀性能。
- ③ 闭式叶轮结构，用平衡孔加口环结构平衡轴向力。
- ④ 泵体为蜗壳式结构，采用中心线支撑结构，适用于各种操作温度。
- ⑤ 轴承采用背靠背安装的40°角接触球轴承和圆柱滚子轴承承受径向力和残余轴向力。

### Product Features

- ① Pumps are universal generally. There are total of 22 specifications and only two types of bearing frame components are required.
- ② With excellent hydraulic model and low-flow and high-lift design, pumps can have high efficiency and good cavitation performance.
- ③ With closed impeller structure, the balance hole and the ring structure can balance the axial force.
- ④ The pump body has a volute structure and a centerline support structure, suitable for various operating temperatures.
- ⑤ Bearings used back-to-back 40° angular contact ball bearings and cylindrical roller bearings to withstand radial forces and residual axial forces.



## KOP ( S ) 系列-重型石油化工流程泵 KOP(S) Series - Heavy Petrochemical Process Pump

### 概述

该系列泵为卧式、单级、单吸、悬臂式、中心支撑离心泵，设计标准为API610、GB3215。API代码为OH2。

### 应用范围

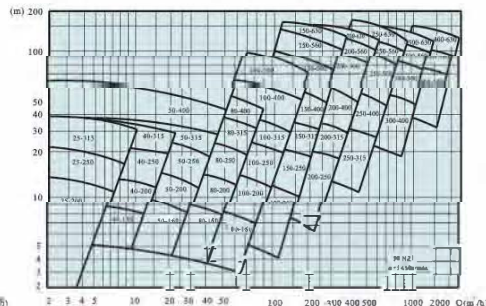
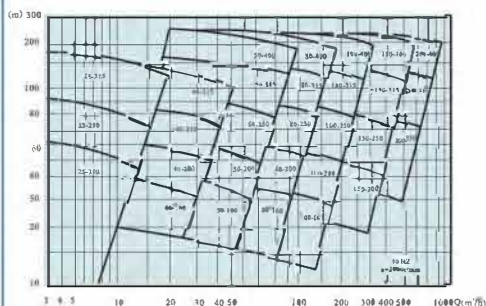
该系列泵主要用于炼油厂，石油化工，低温工程，煤化工，化纤和普通工业流程，发电厂，大中型加热及空调装置，环境保护工程，海上工业和海水淡化厂等行业和领域。

### Overview

The HP-Series is a single-stage pump designed for the most rigorous industrial environments. Specifically engineered to integrate into diesel applications, cooling medium cooling lines, and furnace circulation systems, this pump provides the high-pressure flow necessary for scale removal, equipment cooling, and high-temperature fluid transfer.

### Application Range

This series of pumps are mainly used in oil refineries, petrochemicals, cryogenic engineering, coal chemical, chemical fiber and general industrial processes, power plants, large and medium heating and air conditioning units, environmental protection engineering, offshore industries and desalination plants, as well as other industries and fields.



### 产品特点

- ① 优秀的水力模型，具有较高的效率和汽蚀性能，叶轮采用叶轮螺母可靠的定位在轴上，并设有有效地防松结构。
- ② 泵体为蜗壳式结构，出口大于等于80mm的采用双蜗壳结构可以很好的平衡径向力，保证转子刚度。采用中心支撑结构，适用于各种操作温度。
- ③ 泵体、泵盖、叶轮都设有耐磨密封环，密封环间隙和硬度要求符合API610标准要求，使用寿命长，更换方便。
- ④ 密封腔符合API682标准要求，可以配置各种型式的机械密封。
- ⑤ 采用润滑油冷却盘管方式冷却轴承部件，换热均匀，冷却效果好，可以避免由于冷却轴承外圈而造成的轴承冷热不均，使用寿命下降的现象。
- ⑥ 采用开式叶轮时采用可调式轴承盒结构，便于泵转子轴向调整。

### Product Features

- ① Excellent hydraulic model can make pump with high efficiency and good cavitation performance. The impeller is positioned on the shaft reliably by impeller nut and has an effective anti-loose structure.
- ② The pump body is of a volute structure. The double volute structure with an outlet of 80mm or more can balance the radial force well and ensure the rigidity of the rotor. Pumps with central support structure can be suitable for various operating temperatures.
- ③ The pump body, pump cover and impeller are equipped with wear-resistant sealing rings. The clearance and hardness of the sealing ring meet the requirements of API 610 standard. Wear ring has long service life and can be replaced very conveniently.
- ④ The sealed chamber meets the requirements of API 682 and can be equipped with various types of mechanical seals.
- ⑤ Bearing components are cooled by using lubricating oil to cool coil. The heat exchange is uniform, and the cooling effect is good, which can avoid the uneven heat and the degraded service life of bearing caused by the cooling in the outer ring of bearing.
- ⑥ Adjustable bearing box structure is adopted when open impeller is used, which is convenient for axial adjustment of pump rotor.

### 性能范围

流量范围：2~3000m³/h  
扬程范围：15~300m  
适用温度：-80~450℃  
设计压力：KOP 5.0MPa KOS 10.0MPa

### Performance Range

Flow range : 2~3000m³/h  
Head range : 15~300m  
Applicable temperature : -80~450℃  
Design pressure : KOP 5.0MPa KOS 10.0MPa



## KOT系列-立式管道泵

## KOT Series - Vertical Pipeline Pump

### 概述

该系列泵为立式、单级、单吸、悬臂式离心泵，设计标准为API610、GB3215。

该系列产品在整体结构上采用独立轴承体支撑，解决了现有立式泵靠电机轴承支撑的不足之处。是替换直连式管道泵的最理想产品。

### 应用范围

该系列泵主要用于化学、石油化工、发电厂、给排水、城市供水及水处理、管线加压等行业。

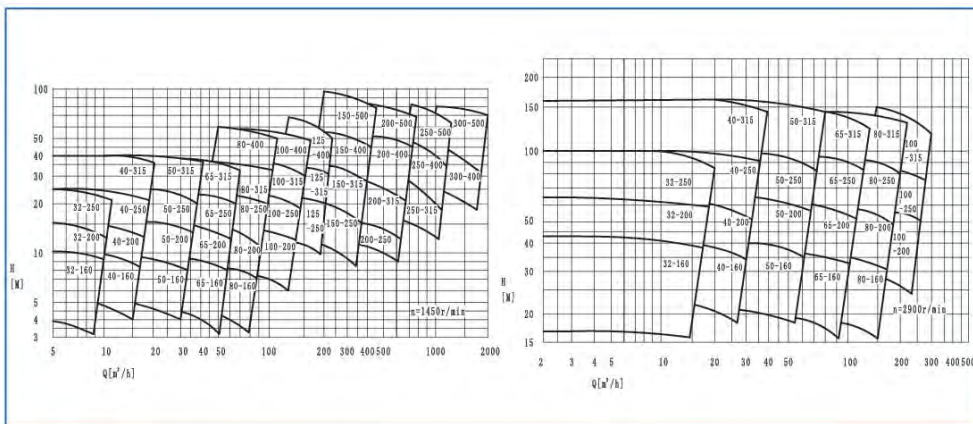
### Overview

The pumps are vertical, single-stage, single-suction, cantilevered centrifugal pumps, and they are designed to API 610 and GB3215.

The series of pumps adopt independent bearing body support on the whole structure, which solves the shortcomings of the existing vertical pump supported by the motor bearing. It is the ideal product to replace the direct-connected pipeline pump.

### Application Range

This series of pumps are mainly used in chemical, petrochemical, power plants, water supply and drainage, urban water supply and water treatment, pipeline pressurization and other industries.



### 产品特点

- ① 与同性能卧式泵相比，立式管道泵具有较小的占地面积和简单的管路连接，节省基础的投资费用。
- ② 电机与泵之间带轴承架，可以使用在较高温度和较为重要的场合。
- ③ 出口直径80mm以上的泵体设计成双蜗壳平衡径向力，因而保证了轴承的使用寿命和轴封处轴的挠度。
- ④ 轴承采用背靠背安装的40°角接触球轴承和圆柱滚子轴承承受径向力和残余轴向力。

### Product Features

- ① Compared with horizontal pumps of the same performance, vertical pipeline pumps have a small footprint and simple piping connections and also saved basic investment costs.
- ② There is a bearing frame between the motor and the pump, which can be used at higher temperatures and more important occasions.
- ③ The pump body with an outlet diameter of 80mm or more is designed as double volute to balance the radial force, thus ensuring the service life of the bearing and the deflection of the shaft at the shaft seal.
- ④ Bearings are back-to-back 40° angular contact ball bearings and cylindrical roller bearings to withstand radial forces and residual axial forces.

### 性能范围

流量范围：3~2000m³/h

扬程范围：~160m

适用温度：-40~150°C

设计压力：2.5MPa

### Performance Range

Flow range : 3~2000m³/h

Head range : ~160m

Applicable temperature : -40~150°C

Design pressure : 2.5MPa



## KBA系列-轴向剖分双吸泵

## KBA Series - Axial Split Double Suction Pump

### 概述

该系列泵为卧式，轴向剖分，单级两端支撑离心泵，泵体采用蜗壳式、底脚支撑，设计标准为API610 11th,API代码为BB1。

该系列产品采用轴向剖分结构，维修方便快捷。

### 应用范围

该系列泵广泛的应用在水利灌溉、水处理、石油化工、电站、热电厂、管网加压、原油（成品油）输送、海水淡化等场合。

典型工况用于大型合成氨装置中的贫液泵、富液泵及液力透平，原油或成品油输送项目中的管线输送主泵等。

### Overview

The pumps are centrifugal, horizontal and axially split, single-stage, supported at both ends. The pump body is supported by a volute and foot support. The design standard is API 610 11th and API code is BB1.

This series of products adopts axial split structure, which is convenient and quick to repair.

### Application Range

This series of pumps are widely used in water irrigation, water treatment, petrochemical, power stations, thermal power plants, pipe network pressurization, crude oil (product oil) transportation, seawater desalination and other occasions.

Pumps can be used in the typical working conditions that include lean liquid pump, the rich liquid pump and the hydraulic turbine in the large-scale ammonia plant, and the pipeline main pump in the crude oil or product oil transportation project.

### 性能范围

流量范围：200~11000m<sup>3</sup>/h

扬程范围：10~220m

适用温度：-40~150℃

设计压力：2.5MPa

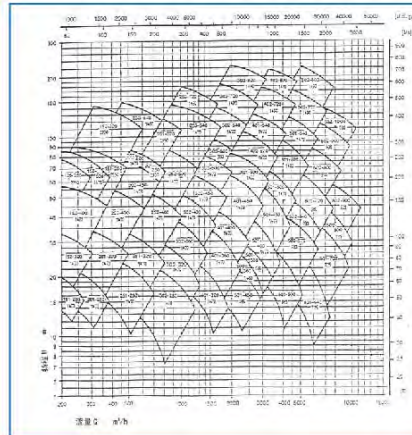
### Performance Range

Flow range : 200~11000m<sup>3</sup>/h

Head range : 10~220m

Applicable temperature : -40~150℃

Design pressure : 2.5MPa



### 产品特点

① 壳体及轴承均采用轴向剖分设计，泵进出口管路均位于泵体下半部分，在不拆卸进出口管路的情况下即可完成泵的检修及维护工作。

② 根据能量密度（P.n）的不同，可配置强制润滑滑动轴承、自润滑滑动轴承或滚动轴承。

③ 台阶式叶轮轴向定位结构，可靠的叶轮锁紧方式，泵安装更加方便，运行更加可靠。

④ 轴承箱体与泵体之间设有定位销，泵二次安装过程中无需调整泵的抬量，大大缩短泵维护及检修周期。

### Product Features

① The casing and bearing are designed by axial splitting. The pump inlet and outlet pipes are located in the lower part of the pump body. The pump can be repaired and maintained without disassembling the inlet and outlet pipes.

② Forced lubrication sliding bearings, self-lubricating sliding bearings or rolling bearings can be configured depending on the energy density (P.n).

③ The installation of pump is more convenient and the operation is more reliable because of stepped impeller axial positioning structure and reliable impeller locking mode.

④ There is a positioning pin between the bearing housing and the pump body. It is not necessary to adjust the pump volume during the secondary installation of the pump, which greatly shortens the pump maintenance and maintenance cycle.



## KBB系列-重工位石油化工流程泵 KBB Series - Heavy Duty Petrochemical Process Pump

### 概述

该系列泵为卧式，两端支撑、径向剖分、双蜗壳、单级单吸或双吸叶轮离心泵，设计标准为API610 11th,API代码为BB2。

该系列泵是针对各类装置中高温、低温、高压等重要工位开发的离心泵，可根据装置管路需求任意选择泵的进、出口方向。

### 应用范围

该系列泵广泛的应用在石油化工、炼油、煤化工、天然气加工、海水淡化以及其他行业的高温、低温或高压工况。

典型工况用于煤化工装置中的半贫液泵和富甲醇泵，炼油装置中闪底油、常底油等高温塔底泵。

### Overview

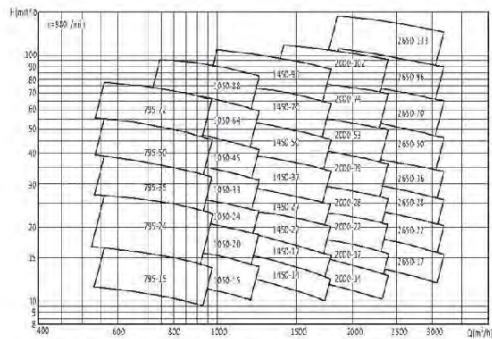
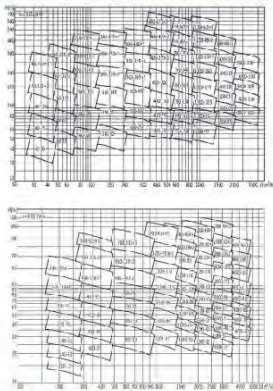
The pumps are of horizontal, two-end support, radial split, double volute, single-stage, single-suction or double-suction impeller. The design standard is API 610 11th and API code is BB2.

This series of pumps is a centrifugal pump developed for important stations such as high temperature and high pressure in various types of equipment. The inlet and outlet directions of the pump can be arbitrarily selected according to the requirements of the pipeline.

### Application Range

This series of pumps is widely used in high temperature, low temperature or high pressure conditions in petrochemical, refining, coal chemical, natural gas processing, desalination and other industries.

Typical working conditions include semi-lean pump and methanol-rich pump in coal chemical plant, and high-temperature bottom pump used for flash bottom oil and normal bottom oil in refinery.



### 产品特点

- ① 壳体采用中心线支撑，径向剖分、双蜗壳压出室流道设计，径向力自平衡，泵体采用整体铸造结构。
- ② 根据能量密度 (P.n) 的不同，可配置强制润滑滑动轴承、自润滑滑动轴承或滚动轴承。
- ③ 泵进、出口方向可根据管路连接要求设计成顶进顶出、侧进顶出、顶进侧出、侧进侧出等不同结构。
- ④ 防尘盘可采用“轴承隔离器”形式，有效防止内部润滑油泄露及外部水或灰尘进入轴承箱内。
- ⑤ 泵盖设置可清洗的水冷腔结构，对密封腔进行冷却或保温，高温工况隔离高温向轴承端的热传导。
- ⑥ 阶梯式轴伸设计，联轴器、轴承、密封的安装、拆卸与维修更加方便。

### Product Features

- ① The casing adopted the design of centerline support, radial splitting, extrusion chamber flow channel of double volute and the radial force self-balancing. The pump body adopts the integral casting structure.
- ② Forced lubrication plain bearings, self-lubricating plain bearings or rolling bearings can be configured depending on the energy density (P.n).
- ③ The pump inlet and outlet directions can be designed according to the pipeline connection requirements, such as top in and top out, side in and top out, top in and side out, side in and side out.
- ④ The dust disc can be in the form of "bearing isolator" to prevent internal lubricant leakage and external water or dust from entering the bearing housing.
- ⑤ The pump cover is provided with a water-cooling chamber structure that can be cleaned. This can make the sealing chamber cooled or insulated, and also can isolate the heat conduction of the high temperature to the bearing end at the high-temperature working condition.
- ⑥ With stepped shaft extension design, it is easy to install, disassemble and repair couplings, bearings and seals.

### 性能范围

流量范围：10~4500m<sup>3</sup>/h

扬程范围：~250m

适用温度：-80~450℃

设计压力：5、10、15MPa

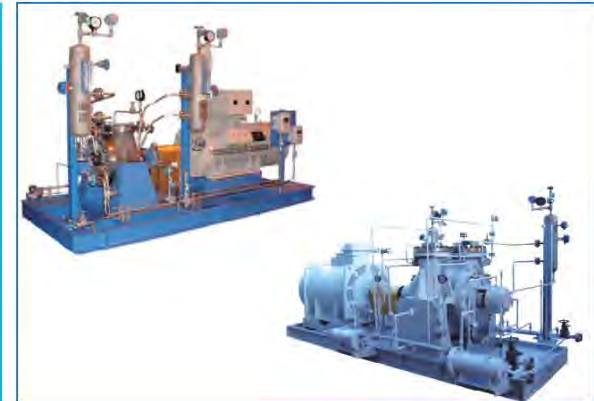
### Performance Range

Flow range : 10~4500m<sup>3</sup>/h

Head range : ~250m

Applicable temperature : -80~450℃

Design pressure : 5、10、15MPa



## KBC系列-水平中开多级泵

## KBC Series - Horizontal Split Multistage Pump

### 概述

该系列泵为卧式、蜗壳式水平中开多级离心泵，设计标准为API610 11th，API编码为BB3。该系列泵为单壳体、中心支撑结构，叶轮采用对称布置，轴向力自动平衡，没有复杂的平衡装置，在输送含有颗粒的介质时根据安全可靠。

### 应用范围

该系列泵主要用于石油开采、石油化工、化工、煤化工、管线输送、海水淡化、电厂等，也可用于煤化工中的灰水泵、贫甲醇输送泵，化工行业的高压液力能量回收透平，化肥、合成氨装置的贫液泵和富液泵等。

典型工况用于电厂锅炉给水，钢厂除焦除磷，油田注水及其它高压场合。

### Overview

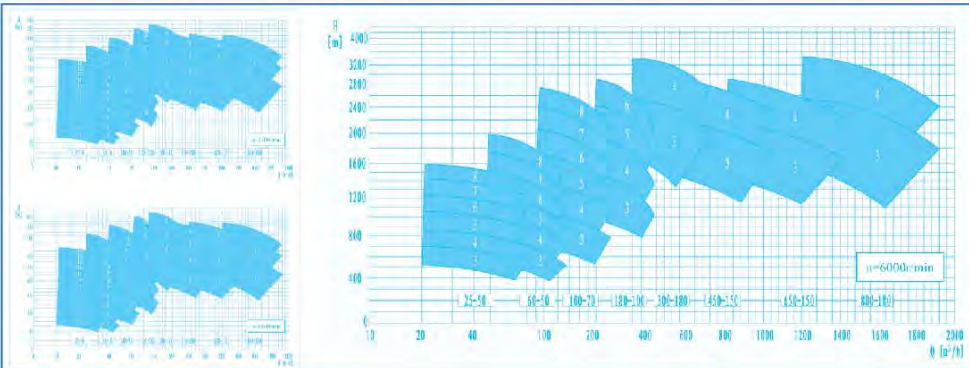
The series of pumps are multistage centrifugal pumps of horizontal, volute and horizontal open type. The design standard is API 610 11th and API code is BB3.

The series of pumps are of single-shell, central support structure. The impeller is symmetrically arranged and the axial force is automatically balanced. There is no complicated balancing device, and it is safe and reliable when conveying medium containing particles.

### Application Range

This series of pumps are mainly used in petroleum exploitation, petrochemical, chemical, coal chemical, pipeline transportation, seawater desalination, power plants, etc. It can also be used in gray water pumps and methanol-lean pump in coal chemical industry, high-pressure hydraulic energy recovery turbine in the chemical industry, and lean liquid pump and rich liquid pump used in fertilizer and ammonia plant, and so on.

Pumps are used in typical operating conditions, such as boiler feed water at power plant, decoking and phosphorus removal at steel plant, oilfield water injection and other high pressure applications.



### 结构特点

- ① 首级叶轮吸入式设计，汽蚀性能好，叶轮背靠背布置，轴向力自动平衡不用配置结构复杂的平衡机构，简化了泵结构，有利于输送含固体颗粒介质。
- ② 泵进出口布置在泵体上，只需打开泵盖便可拆卸，泵体不动，也不用移动进出口管线，维修简单方便。
- ③ 轴承根据轴功率及转速大小可采用自润滑滑动轴承结构及强制润滑轴承结构。
- ④ 所有摩擦副采用高硬度耐磨且不易咬合才能，转动轴套类及口环类表面硬化，既保证了高硬度和硬度差，又不易咬合，适合输送固液两相介质，降低了颗粒的磨蚀。泵的寿命和可靠性得到了保证。

### Structural Features

- ① The first-stage impeller is of suction design, and it has good cavitation performance. The impeller is placed back to back, so the axial force is automatically balanced without the balance mechanism in complicated structure. This simplifies the pump structure and facilitates the transportation of medium with solid particles.
- ② Pump inlet and outlet are arranged on pump body. Pump can be disassembled by simply opening pump cover, leaving pump body stand by without removing the inlet and outlet pipelines. The maintenance is simple and convenient.
- ③ Bearings can adopt self-lubricating sliding bearing structure and forced lubrication bearing structure depending on shaft power and speed.
- ④ All friction pairs are made of materials with high hardness and wear resistance, so they are not easy to bite. Rotating sleeves and ring are hardened on surface, not only ensuring high hardness and hardness difference, but also being difficult to bite. It is suitable for conveying solid-liquid two-phase medium and reducing erosion of particles. Pump life and reliability are guaranteed.

### 性能范围

流量范围：10~1500m<sup>3</sup>/h  
扬程范围：~3000m  
适用温度：-40~200°C  
设计压力：~35MPa  
设计转速：~6000r/min

### Performance Range

Flow range : 10~1500m<sup>3</sup>/h  
Head range : ~3000m  
Applicable temperature : -40~200°C  
Design pressure : ~35MPa  
Design speed: ~6000r/min



## KBD系列-卧式多级泵

## KBD Series - Horizontal Multistage Pump

### 概述

该系列泵为卧式、径向分割节段式多级离心泵，设计标准为API610 11th。

该系列泵壳体采用径向导叶结构，可以根据使用温度选取中心支撑或底脚支撑结构，进出口可以按多个方向灵活布置，能够满足不同用户的需求。

该系列泵结构简单可靠，运转稳定，使用寿命长，便于维护和维修。

### 应用范围

该系列泵主要用于工业供水装置、炼油厂、热电厂、煤化工、城市供水、水处理、石油化工等行业。特别适用于低压、中压锅炉给水，管线加压等。

### Overview

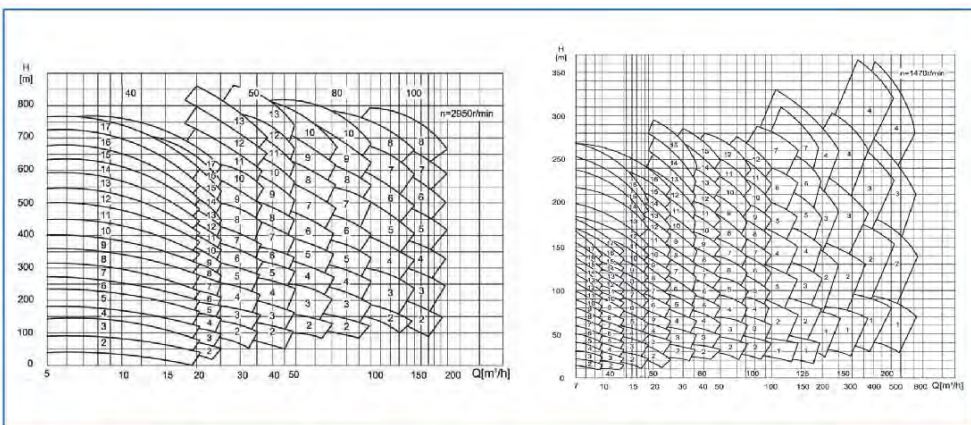
This series of pumps is a horizontal, radial split, sectional, multistage centrifugal pump designed to API 610 11th.

The pump casing adopts a radial vane structure. Center support or foot support structure can be selected according to the use temperature. The inlet and outlet can be flexibly arranged in multiple directions to meet the needs of different users.

The pump series is simple and reliable in structure and operate stably. They have long service life and are easy to be maintained and repaired.

### Application Range

This series of pumps are mainly used in industrial water supply equipment, oil refineries, thermal power plants, coal chemical industry, urban water supply, water treatment, petrochemical and other industries. It is especially suitable for low pressure, medium pressure boiler feed water, and pipeline pressurization, etc.



### 结构特点

- ① 首级叶轮和次级叶轮采用不同的设计理念，首级考虑泵的汽蚀性能，次级考虑泵的效率，使整个泵具有优良的汽蚀性能和效率。
- ② 轴向力采用鼓-盘-鼓结构平衡，平衡效果好，可靠性高。
- ③ 大油箱设计，油箱内安装冷却盘管，可直接冷却轴承轴承室内润滑油，冷却效果好。
- ④ 特殊设计的轴承结构，更换机封更方便快捷。

### Structural Features

- ① Different design concepts are adopted for the first stage impeller and the secondary impeller. The cavitation performance of the pump is considered for the first stage impeller, and the efficiency of the pump is considered for the secondary impeller, so that the whole pump has excellent cavitation performance and efficiency.
- ② The axial force is balanced by drum-disc-drum structure, with good balance effect and high reliability.
- ③ With large fuel tank design, cooling coil is installed in the fuel tank. This can directly cool lubricating oil within the bearing room, and the cooling effect is good.
- ④ With specially designed bearing structure, it is more convenient and quick to replace the mechanical seal.

### 性能范围

- 流量范围：5~500m³/h
- 扬程范围：~1000m
- 适用温度：-40~180°C
- 设计压力：最大15MPa

### Performance Range

- Flow range : 5~500m³/h
- Head range : ~1000m
- Applicable temperature : -40~180°C
- Design pressure : up to 15MPa



## KBE系列-卧式次高压多级泵 KBE Series - Horizontal Secondary High-pressure Multistage Pump

### 概述

该系列泵为卧式、径向分割节段式多级离心泵，设计标准为API610 11th，API编码为BB4。该系列泵主要用于输送介质温度不大于210°C，适用于小型锅炉给水或输送类似于热水等场合。

### 应用范围

该系列泵主要用于锅炉给水、炼油厂、热电厂、煤化工、城市供水、水处理、石油化工等行业。特别适用于低压、中压锅炉给水，管线加压等。

### Overview

The series of pumps are horizontal, radial split, sectional, multi-stage centrifugal pumps. The design standard is API 610 11th and API code is BB4.

This series of pumps are mainly used for conveying medium with temperature not more than 210 °C, suitable for conveying small boiler feed water or medium similar to hot water.

### Application Range

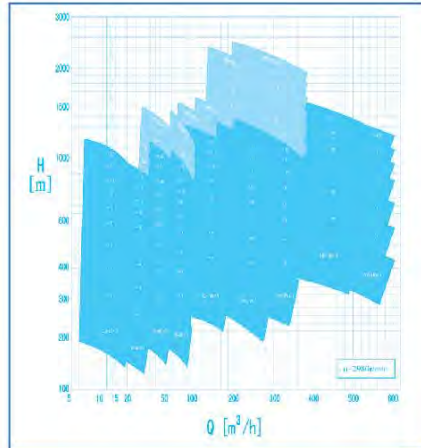
This series of pumps are mainly used in boiler feed water, refineries, thermal power plants, coal chemical industry, urban water supply, water treatment, petrochemical and other industries. It is especially suitable for low pressure, medium pressure boiler feed water, pipeline pressurization, etc.

### 性能范围

流量范围：5~600m<sup>3</sup>/h  
扬程范围：~2500m  
适用温度：-40~210°C  
设计压力：最大27MPa

### Performance Range

Flow range : 5~600m<sup>3</sup>/h  
Head range : ~2500m  
Applicable temperature : -40~210°C  
Design pressure : up to 27MPa



### 结构特点

- ① 进出口段、中段等承压零件采用锻造工艺制造，运行更加安全可靠。
- ② 采用鼓-盘-鼓联合作用的平衡机构，在有效避免“闪蒸”现象的同时，大大提高轴承的使用寿命和运行的稳定性。
- ③ 泵体和叶轮均设有密封环，其间隙和硬度均符合API610标准，备件更换方便，使用寿命长。
- ④ 设有导向键和定位销，当输送高温介质时，泵向非驱动端膨胀延伸，不影响泵与驱动机之间的连接，运行更加安全可靠。
- ⑤ 根据轴功率的大小、转速的不同可采用自润滑滑动轴承及强制润滑滑动轴承结构。

### Structural Features

- ① The pressure-bearing parts are manufactured by forging process, such as the inlet & outlet stage and the middle stage, which can make operation safer and more reliable.
- ② The balance mechanism is adopted as the drum-disc-drum combination, not only avoiding the "flashing" phenomenon effectively, but also improving the service life and stability of the bearing greatly.
- ③ The pump body and the impeller are provided with sealing rings. The gap and hardness are designed in accordance with API 610 standard. Spare parts are easy to be replaced and have a long service life.
- ④ There are guide keys and positioning pins. When conveying high temperature medium, the pump expands and extends to the non-drive end, which does not affect the connection between the pump and the drive machine, and the operation is safer and more reliable.
- ⑤ Self-lubricating sliding bearings and forced lubrication sliding bearing structures can be used depending on the shaft power and the speed.



## KBF ( H ) 系列-卧式高压多级泵 KBF (H) Series - Horizontal High-pressure Multistage Pump

### 概述

KBF系列泵为卧式、双壳体、内芯节段式、叶轮同向布置、首级单吸或双吸多级离心泵。设计标准为API610 11th，API编码为BB5。

KBH系列泵为卧式、双壳体、内芯轴向剖分、蜗壳式、叶轮对称布置、首级单吸或双吸多级离心泵。设计标准为API610 11th，API编码为BB5。

### 应用范围

KBF系列泵主要用于锅炉给水、炼油厂、热电厂、煤化工、城市供水、水处理、石油化工等行业。特别适用于输送液化石油气、轻烃、锅炉给水等易燃易爆有毒高温高压等液体。

KBH系列泵主要用于石油开采、煤化工、海水淡化、电厂等。也可用于煤化工中的灰水泵、贫甲醇输送泵，化肥、合成氨装置的贫液泵和富液泵等。

### Overview

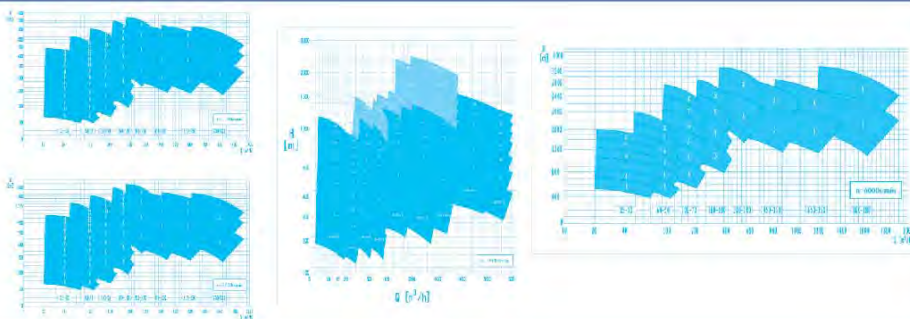
KBF series pumps are multi-stage centrifugal pumps of horizontal, double-casing, inner core segment, impeller in the same direction, first-stage single-suction or double-suction design. The design standard is API 610 11th and API code is BB5.

KBH series pumps are multi-stage centrifugal pumps of horizontal, double-shell, axial core split, volute, symmetrical arrangement in impeller, first-stage single-suction or double-suction design. The design standard is API 610 11th and API code is BB5.

### Application Range

KBF series pumps are mainly used in boiler feed water, refineries, thermal power plants, coal chemical industry, urban water supply, water treatment, petrochemical and other industries. It is especially suitable for conveying liquids, flammable, explosive, toxic, high temperature and high pressure, such as liquefied petroleum gas, light hydrocarbons, boiler feed water, etc.

KBH series pumps are mainly used in oil exploitation, coal chemical industry, seawater desalination, power plants and so on. It can also be used in gray water pump, lean methanol pump, chemical fertilizer, lean liquid pump and rich liquid pump in coal chemical industry.



### 结构特点

- ① 泵体、泵盖等承压零件采用锻造工艺制造，运行更加安全可靠。
- ② 泵体和叶轮均设有密封环，其间隙和硬度均符合API610标准，备件更换方便，使用寿命长。
- ③ 设有导向键和定位销，当输送高温介质时，泵向非驱动端膨胀延伸，不影响泵与驱动机之间的连接，运行更加安全可靠。
- ④ 根据轴功率的大小、转速的不同可采用自润滑滑动轴承及强制润滑滑动轴承结构。
- ⑤ 内芯采用整体抽出结构，在不移动进出口管线的情况下能够实现泵的维修与检测。

### Structural Features

- ① The pressure parts of the pump body and pump cover are made by forging process, which makes the operation safer and more reliable.
- ② Both pump body and impeller are provided with a sealing ring. The clearance and hardness are in accordance with API 610 standard. The spare parts are easy to be replaced and have a long service life.
- ③ There are guide keys and positioning pins. When conveying high temperature medium, the pump expands and extends to the non-driven end, which does not affect the connection between pump and drive machine. The operation is safer and more reliable.
- ④ Self-lubricating sliding bearings and forced lubrication sliding bearing structures can be used depending on the shaft power and the speed.
- ⑤ The inner core adopts the integral extraction structure, which can realize the maintenance and inspection of the pump without moving the inlet and outlet pipelines.

### 性能范围

KBF	KBH
流量范围：5~730m <sup>3</sup> /h	45~1440m <sup>3</sup> /h
扬程范围：~3200m	~3200m ( 6000r/min )
适用温度：-80~450℃	-80~450℃
设计压力：~35MPa	~35MPa

### Performance Range

KBF	KBH
Flow range : 5~730m <sup>3</sup> /h	45~1440m <sup>3</sup> /h
Head range : ~3200m	~3200m ( 6000r/min )
Applicable temperature :	
-80~450℃	-80~450℃
Design pressure : ~35MPa	~35MPa



## KVA系列-立式单壳导流泵 KVA Series - Vertical Single-Shell Diversion Pump

### 概述

该系列泵为立式、单或多级、悬吊式离心泵，设计标准为API610 11th。

该系列泵适用于输送各种清洁的或有污染的、低温或高温介质，化学中性或有腐蚀的介质，尤其适合输送污水、污油等各种液体。

### 应用范围

该系列泵广泛应用于市政工程、冶金钢铁、化工造纸、自来水、电厂及农田水利工程等。

### Overview

The pumps are vertical, single or multi-stage, suspended centrifugal pumps designed to API 610 11th.

This series of pumps is suitable for conveying a variety of clean or polluted, low temperature or high temperature medium, chemical neutral or corrosive medium, especially suitable for transporting various liquids such as sewage and waste oil.

### Application Range

This series of pumps are widely used in municipal engineering, metallurgical steel, chemical paper, water, power plants and farmland water conservancy projects.

### 性能范围

流量范围：8~6000m<sup>3</sup>/h

扬程范围：~360m

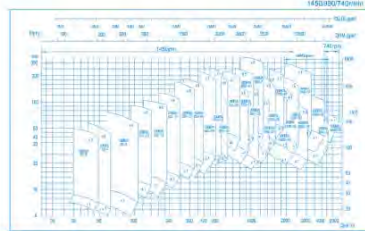
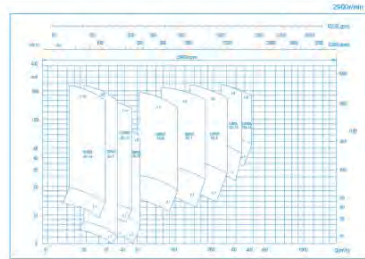
适用温度：-40~170°C

### Performance Range

Flow range : 8~6000m<sup>3</sup>/h

Head range : ~360m

Applicable temperature : -40~170°C



### 结构特点

① 入口采用过滤网+吸入喇叭口结构，可有效过滤大粒固体物和纤维物，有助于液体平稳均匀地进入叶轮，减少涡流形成。

② 过流部分涂有环氧树脂涂层，以提高效率和使用年限。

③ 每段扬水管均带有导轴承体以支撑传动轴。针对不同的介质和使用条件可选用各种不同的导轴承；一般采用高分子合成材料（主要成份为聚四氟乙烯加耐磨填充剂和润滑剂）制造，其自润滑性能好，泵可干磨启动（不需预先注水），也可采用橡胶轴承（或赛龙轴承）。

④ 轴承可采用干油润滑，也可采用稀油润滑，并配有水冷却功能，使泵运行更安全，寿命更长。

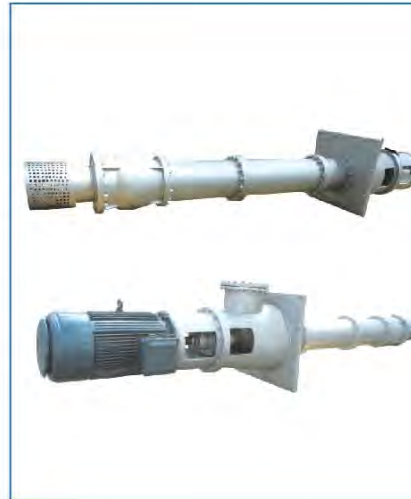
### Structural Features

① The inlet adopts the filter plus suction bell structure, which can effectively filter large solids and fibers. This helps the liquid to enter the impeller smoothly and evenly, and reduce the formation of eddy current.

② The flowing part is coated with an epoxy coating to increase efficiency and age.

③ Each section of the water pipe is provided with a guide bearing body to support the drive shaft. Different kinds of guide bearings can be selected for different mediums and conditions. Guide bearings are generally made of polymer synthetic materials (mainly composed of PTFE and wear-resistant fillers and lubricants) and the self-lubricating performance is good. The pump can be started by dry-grinding (no need to pre-fill water) and rubber bearings (or cylon bearings) can also be used.

④ The bearing can be lubricated with dry oil or thin oil. It is equipped with water cooling function to make the pump run safer and last longer.



## KVD ( E ) 系列-立式长轴液下泵 KVD (E) Series - Vertical Long Shaft Submerged Pump

### 概述

该系列泵为立式、单级、单吸、蜗壳式长轴液下离心泵，设计标准为API610 11th。

KVD为干油润滑结构，KVE为稀油润滑结构。

该系列泵适用于输送各种清洁的或有污染的、低温或高温介质，化学中性或有腐蚀的介质，尤其适合输送污水、油污等各种液体。

### 应用范围

该系列泵广泛应用于市政工程、冶金钢铁、化工造纸、污水处理、电厂及农田水利工程等。

### Overview

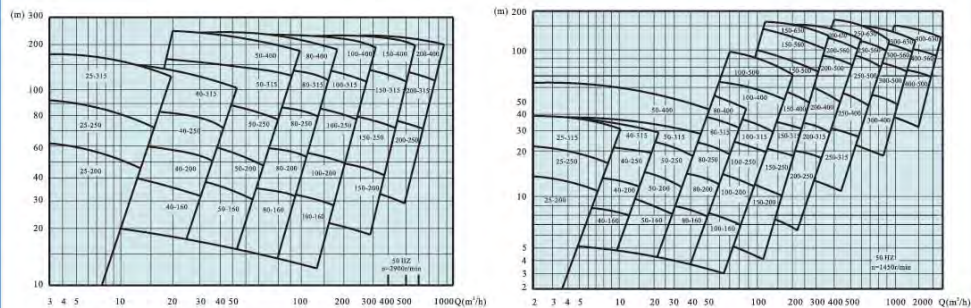
The pumps are submerged centrifugal pumps of vertical, single-stage, single-suction, volute long-shaft type designed to API 610 11th.

KVD has a structure of dry oil lubrication and KVE is a structure of thin oil lubrication.

This series of pumps is suitable for conveying a variety of clean or polluted, low temperature or high temperature medium, chemical neutral or corrosive medium, especially suitable for transporting various liquids such as sewage and waste oil.

### Application Range

This series of pumps are widely used in municipal engineering, metallurgical steel, chemical papermaking, sewage treatment, power plants and farmland water conservancy projects.



### 结构特点

- ① 密封腔不与介质接触，无动密封泄漏点，常规采用填料密封防止介质挥发，气体外溢。
- ② 轴承可采用干油润滑，也可采用稀油润滑，并配有水冷却功能，使泵运行更安全，寿命更长。
- ③ 采用柔性轴设计理论，采用多点支撑结构，支撑点跨距符合API610标准要求。
- ④ 轴衬可选用不同的材料配置适合不同的工况要求。如碳化硅、填充四氟乙烯、石墨浸渍材料、球墨铸铁等。
- ⑤ 锥形套筒接轴结构，同轴度高、定位准确、传递扭矩可靠。
- ⑥ 泵吸入口设有过滤网，对泵送介质进行过滤，防止堵塞。
- ⑦ 轴承设有轴套，轴承部件可整体安装，更换机封时无需将泵整体吊出拆卸，维修简单快捷。

### Structural Features

- ① The sealed chamber is not in contact with the medium, and there is no leakage point of the dynamic seal. The packing seal is used to prevent the medium from volatilizing and the gas from overflowing.
- ② The bearing can be lubricated with dry oil or thin oil, and equipped with water cooling function to make the pump run safer and last longer.
- ③ Pumps adopt the design theory of flexible shaft and takes multi-point support structure. Support point span meets API 610 standard requirements.
- ④ Bushings are available in different material configurations to suit different operating conditions, such as silicon carbide, filled tetrafluoroethylene, graphite impregnated materials, ductile iron and so on.
- ⑤ Pumps is provided with conical sleeve shaft structure to be high coaxiality, accurate positioning and reliable transmission torque.
- ⑥ The pump suction is equipped with a filter to filter the pumped medium to prevent blockage.
- ⑦ The bearing is provided with a bushing, and the bearing components can be integrally installed. It is not necessary to lift the pump as a whole when replacing the mechanical seal so that the maintenance is simple and quick.

### 性能范围

流量范围：2~3000m<sup>3</sup>/h

扬程范围：~220m

液下深度：可达15m

适用温度：-40~450℃

### Performance Range

Flow range : 2~3000m<sup>3</sup>/h

Head range : ~220m

Sub-liquid depth : up to 15m

Applicable temperature : -40~450℃



## KVF系列-立式夹套液下泵

## KVF Series - Vertical Jacket Submerged Pump

### 概述

该系列泵为立式、单级、单吸、蜗壳式长轴液下离心泵，设计标准为API610 11th.

该系列泵具有很高的安全可靠，泵运转稳定，使用寿命长，维修简单方便，零件通用性强，备品备件种类少，具有很高的使用性能。

该系列泵采用蒸汽夹套，适用于输送熔点较高，停机后容易凝固的介质，如沥青、液体硫磺、松香、黄磷、石蜡等。

### 应用范围

该系列泵广泛应用于化学、石油工业、炼油厂、钢铁厂、发电厂等。

### Overview

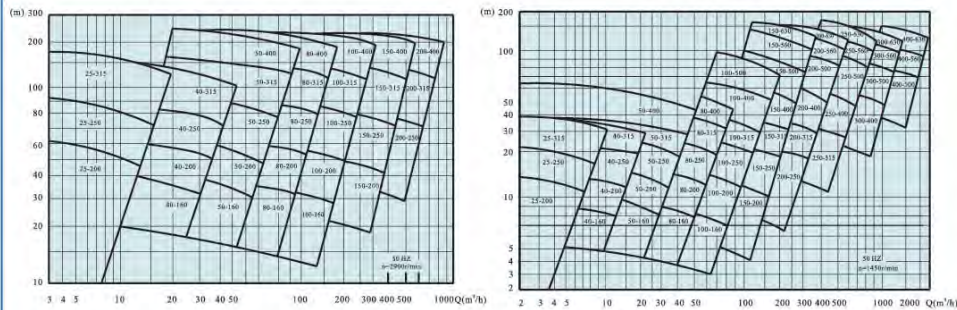
The pumps are vertical, single-stage, single-suction, volute long-shaft submerged centrifugal pumps designed to API 610 11th.

This series of pumps has high safety and reliability. Pump can operate in stable and have long service life. It is simple and convenient to maintain because of strong versatility of parts, few spare parts and high performance.

This series of pumps adopts steam jacket, which is suitable for conveying medium with high melting point and easy to solidify after shutdown, such as asphalt, liquid sulfur, rosin, yellow phosphorus, paraffin and so on.

### Application Range

This series of pumps is widely used in chemical, petroleum, refinery, steel, power plants and so on.



### 结构特点

- ① 轴封处不与介质接触，无动密封泄漏点，密封采用迷宫密封或填料密封防止介质向外泄露。
- ② 轴承采用双列角接触球轴承，采用轴承套安装到轴上，方便转子轴向位置的调整。采用稀油润滑，并配有水冷却功能，确保油室内温度在安全范围内，使泵运行更安全，寿命更长。
- ③ 蒸汽保温系统有效防止了因停机后介质快速凝固从而使转子抱死的情况。
- ④ 出液管采用侧出（VS4）结构，并设有特别的伸缩补偿结构，可以防止因受热膨胀引起的应力。
- ⑤ 采用柔性轴设计理论，采用多点支撑结构，支撑点跨距符合API610标准要求。
- ⑥ 轴衬可选用不同的材料配置适合不同的工况要求。如碳化硅、填充四氟乙烯、石墨浸渍材料、球墨铸铁等。
- ⑦ 锥形套筒接轴结构，同轴度高、定位准确、传递扭矩可靠。
- ⑧ 泵吸入口设有过滤网，对泵送介质进行过滤，防止堵塞。

### Structural Features

- ① The shaft seal is not in contact with the medium, and there is no leakage point of the dynamic seal. The seal uses a labyrinth seal or a packing seal to prevent the medium from leaking outward.
- ② The bearing adopts double row angular contact ball bearing, which is mounted on the shaft by bearing sleeve to facilitate the adjustment of the axial position of the rotor. It is lubricated with thin oil and equipped with water cooling to ensure that the temperature in the oil chamber is within a safe range, making the pump work safer and longer.
- ③ The steam insulation system effectively prevents the rotor from locking up due to rapid solidification of the medium after shutdown.
- ④ The outlet pipe adopts a side-out (VS4) structure and is provided with a special telescopic compensation structure to prevent stress caused by thermal expansion.
- ⑤ Pumps adopt the design theory of flexible shaft and takes multi-point support structure. Support point span meets API 610 standard requirements.
- ⑥ Bushings are available in different material configurations to suit different operating conditions, such as silicon carbide, filled tetrafluoroethylene, graphite impregnated materials, ductile iron and so on.
- ⑦ Pumps is provided with conical sleeve shaft structure to be high coaxiality, accurate positioning and reliable transmission torque.
- ⑧ The pump suction is equipped with a filter to filter the pumped medium to prevent blockage.

### 性能范围

流量范围：2~400m³/h  
扬程范围：~150m  
液下深度：可达15m  
适用温度：~450°C

### Performance Range

Flow range : 2~400m³/h  
Head range : ~150m  
Sub-liquid depth : up to 15m  
Applicable temperature : ~450°C



## KVG系列-液下多级泵

## KVG Series - Submerged Multistage Pump

### 概述

该系列泵为立式、多级、单吸、导叶式长轴液下离心泵，设计标准为API610 11th。

该系列泵适用于输送各种清洁的或有污染的、低温或高温介质，化学中性或有腐蚀的介质，尤其适合低转速，高扬程，安装空间有限的场合。

### 应用范围

该系列泵广泛应用于市政工程、冶金钢铁、化工造纸、污水处理、电厂及农田水利工程等。

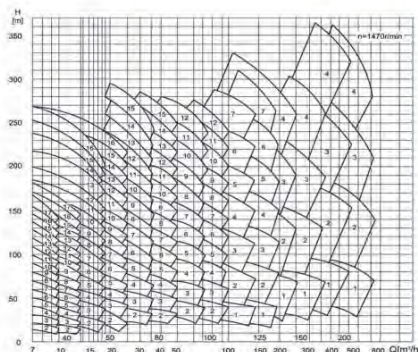
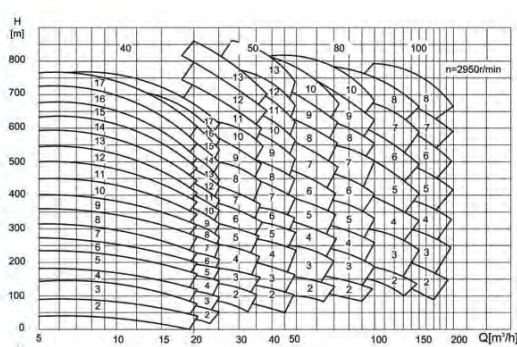
### Overview

The pumps are submerged centrifugal pumps of vertical, multi-stage, single-suction, guide-vane and long-axis type designed to API 610 11th.

These pumps are suitable for conveying a variety of clean or contaminated, low or high temperature medium, chemically neutral or corrosive medium, especially for low speed, high lift and limited installation space.

### Application Range

This series of pumps are widely used in municipal engineering, metallurgical steel, chemical papermaking, sewage treatment, power plants and farmland water conservancy projects.



### 结构特点

- ① 密封腔不与介质接触，无动密封泄漏点，轴封可采用机械密封也可采用填料密封。
- ② 轴承可采用干油润滑，也可采用稀油润滑，并配有水冷却功能，使泵运行更安全，寿命更长。
- ③ 采用柔性轴设计理论，采用多点支撑结构，支撑点跨距符合API610标准要求。
- ④ 轴衬可选用不同的材料配置适合不同的工况要求。如碳化硅、填充四氟乙烯、石墨浸渍材料、球墨铸铁等。
- ⑤ 锥形套筒接轴结构，同轴度高、定位准确、传递扭矩可靠。
- ⑥ 泵吸入口设有过滤网，对泵送介质进行过滤，防止堵塞。
- ⑦ 轴承设有轴套，轴承部件可整体安装，更换机封时无需将泵整体吊出拆卸，维修简单快捷。

### Structural Features

- ① The sealed chamber is not in contact with the medium, and there is no leakage point of the dynamic seal. The shaft seal can use mechanical seal or packing.
- ② The bearing can be lubricated with dry oil or thin oil, and equipped with water cooling function to make the pump run safer and last longer.
- ③ Pumps adopt the design theory of flexible shaft and takes multi-point support structure. Support point span meets API 610 standard requirements.
- ④ Bushings are available in different material configurations to suit different operating conditions, such as silicon carbide, filled tetrafluoroethylene, graphite impregnated materials, ductile iron and so on.
- ⑤ Pumps is provided with conical sleeve shaft structure to be high coaxiality, accurate positioning and reliable transmission torque.
- ⑥ The pump suction is equipped with a filter to filter the pumped medium to prevent blockage.
- ⑦ The bearing is provided with a bushing, and the bearing components can be integrally installed. It is not necessary to lift the pump as a whole when replacing the mechanical seal so that the maintenance is simple and quick.

### 性能范围

流量范围：5~500m<sup>3</sup>/h  
扬程范围：~1000m  
液下深度：可达15m  
适用温度：-40~250℃

### Performance Range

Flow range : 5~500m<sup>3</sup>/h  
Head range : ~1000m  
Sub-liquid depth : up to 15m  
Applicable temperature : -40~250℃



## KVH系列-高温浓硫酸液下泵 KVH Series - High-temperature Concentrated Sulfuric Acid Submerged Pump

### 概述

该系列泵为立式、单级、单吸液下离心泵，设计标准为ISO2858、GB5656。

该系列泵广泛的吸取了国内外液下泵结构设计和材料选择的长处，使该泵达到国际先进水平。采纳国际耐腐蚀耐磨材料研究的最新成果，经久耐用，经济合理。

### 应用范围

该系列泵广泛应用于冶金、石油化工、精细化工等。可输送各种温度的浓硫酸和干燥吸收循环系统。

### Overview

The series of pumps are vertical, single-stage, single-suction submerged centrifugal pumps, and the design standards are ISO 2858 and GB 5656.

This series of pumps has absorbed the advantages of structural design and material selection of submerged pump at home and abroad, making the pump reach the international advanced level. Adopting the latest achievements in the research of international corrosion-resistant and wear-resistant materials, pump is durable and economical.

### Application Range

This series of pumps is widely used in metallurgy, petrochemical, fine chemicals and so on. It can transport concentrated sulfuric acid and dry absorption circulation system at various temperatures.

### 性能范围

流量范围：10~2200m<sup>3</sup>/h

扬程范围：15~50m

适用温度：t < 110°C (98% H<sub>2</sub>SO<sub>4</sub>)  
t < 80°C (93% H<sub>2</sub>SO<sub>4</sub>)

### Performance Range

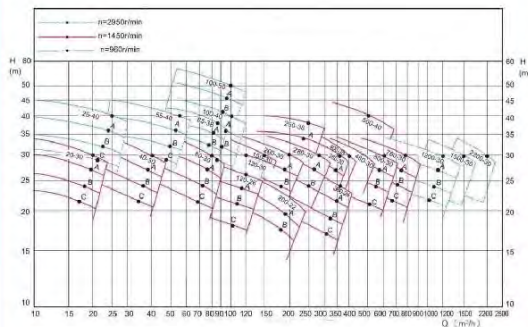
Flow range : 10~2200m<sup>3</sup>/h

Head range : 15~50m

Applicable temperature :

t < 110°C (98% H<sub>2</sub>SO<sub>4</sub>)

t < 80°C (93% H<sub>2</sub>SO<sub>4</sub>)



### 结构特点

- ① 轴向推力主要靠叶轮背叶片来平衡，剩余轴向力及转子重量靠滚动轴承承受。
- ② 泵可充分利用自身吸上高度，增加吸入管可增加泵机组的插入深度。
- ③ 通用化、标准化程度高，互换性好，拆卸维护方便。
- ④ 独特设计的滑动轴承结构以及材料选择，运行更加可靠安全。
- ⑤ 优秀的水力模型，性能更稳定，节能效果明显。
- ⑥ 极度富裕的腐蚀裕量，可确保更长的使用寿命。

### Structural Features

- ① The axial thrust is mainly balanced by the back blades of the impeller, and the residual axial force and the weight of the rotor are supported by the rolling bearing.
- ② The pump can make full use of its own suction height, and increasing the suction pipe can increase the insertion depth of the pump unit.
- ③ With generalization, high standardization and good interchangeability, it is easy for disassembly and maintenance.
- ④ For the unique design of sliding bearing structure and material selection, they make operation more reliable and safe.
- ⑤ With excellent hydraulic model, the performance is more stable, and the energy saving effect is obvious.
- ⑥ For extremely rich corrosion margins, it can ensure a longer service life.



## KVK系列-悬臂液下泵

## KVK Series – Cantilevered Submerged Pump

### 概述

该系列泵为立式、单级、单吸液下悬臂离心泵，设计标准为API610 11th。

该系列泵采用悬臂结构，液下部位无滑动轴承支撑，适用于输送各种有杂质、固体颗粒等恶劣工况的介质。

### 应用范围

该系列泵广泛应用于冶金、市政排污、水处理等行业。特别适用于化学工业制酸系统、有色冶金工业制酸及电解液系统。

### Overview

The pumps are centrifugal pumps of vertical, single-stage, single-suction, submerged, cantilevered design, according to API 610 11th.

This series of pumps adopts cantilevered structure, and there is no sliding bearing support in the submerged part. It is suitable for conveying various medium with impurities and solid particles in harsh working conditions.

### Application Range

This series of pumps is widely used in metallurgy, municipal sewage, water treatment and other industries. Especially they are suitable in chemical industry acid system, non-ferrous metallurgical industry acid and electrolyte system.

### 性能范围

流量范围：2~2500m<sup>3</sup>/h

扬程范围：5~150m

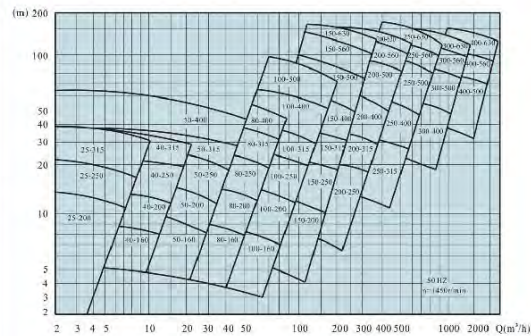
适用温度：-40~450℃

### Performance Range

Flow range : 2~2500m<sup>3</sup>/h

Head range : 5~150m

Applicable temperature : -40~450℃

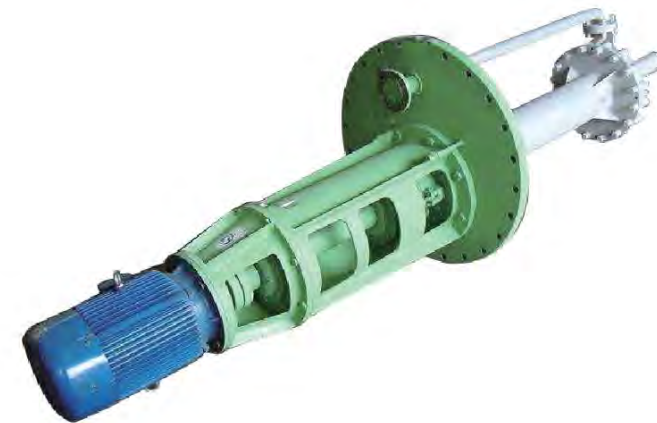


### 结构特点

- ① 悬臂式设计，较小的悬臂比，使泵运行更平稳可靠。
- ② 无滑动轴承，可适应各种恶劣工况。
- ③ 开式加厚叶轮设计，不易堵塞，耐磨损，使用寿命长
- ④ 免维护，操作简单，维修方便。

### Structural Features

- ① With cantilevered design and smaller cantilevered ratio, they make the pump run more smoothly and reliably.
- ② With no sliding bearing, pumps can be applied in a variety of harsh conditions.
- ③ With open and thick impeller design, impellers are not easy to be blocked. They are worn- resistant and can have long service life
- ④ There is no need to maintain and it is easy to operate and maintain.



## KVM系列-立式筒袋泵

## KVM Series - Vertical Barrel Pump

### 概述

该系列泵为立式、多级、径向剖分、径向导叶或导流壳结构，带有筒体的双层壳体泵。设计标准为API610 11th，API编码为VS6。

该系列泵配置丰富，首级叶轮和次级叶轮单独设计，首级叶轮具有高的汽蚀性能，次级叶轮具有高的效率，采用径向或空间导叶式压出室，同时在支撑、冷却、安装维修等结构方面进行了周密的考虑和设计，并可以配置各种辅助和监控系统，使该系列产品具有很高的安全性和可靠性。

### 应用范围

该系列泵广泛应用于石油化工、煤化工、低温工程、冷凝液抽取、液化气工程、炼油、发电厂、管线调压、海水淡化等行业和领域。

尤其适用于输送低温介质、易气化介质等，如天然气、乙烯、液氨、冷凝液、轻烃、油品等。

### Overview

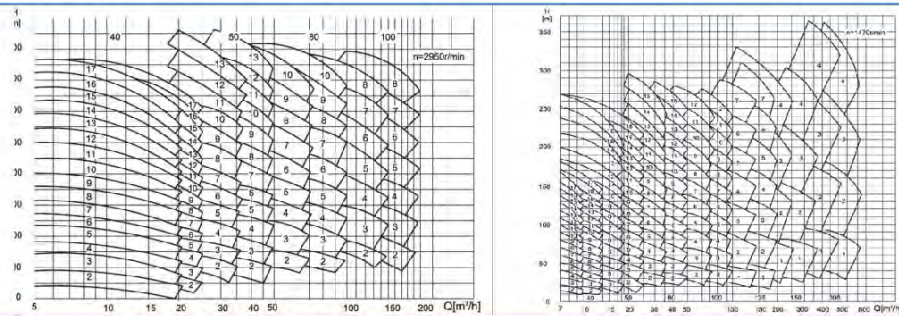
The pumps are double-shell pump with a barrel, of vertical, multi-stage, radial split, radial vane or diversion shell construction. The design standard is API 610 11th and API code is VS6.

This series of pumps is rich in configuration. The first stage impeller and the secondary impeller are designed separately. The first stage impeller has high cavitation performance, while the secondary impeller has high efficiency. The extrusion chamber of radial or space vane type is used. Structural considerations such as cooling, installation and maintenance have been carefully considered and designed, and various auxiliary and monitoring systems can be configured to make the series highly safe and reliable.

### Application Range

This series of pumps are widely used in petrochemical, coal chemical, cryogenic engineering, condensate extraction, liquefied gas engineering, oil refining, power plants, pipeline pressure regulation, seawater desalination and other industries and fields.

It is especially suitable for conveying low temperature medium, easy gasification medium, etc., such as natural gas, ethylene, liquid ammonia, condensate, light hydrocarbons and oil products, etc.



### 结构特点

- ① 滚动轴承结构，采用稀油润滑，设计有特殊的润滑油循环系统，轴承具有很好的润滑效果，同时设计有水冷和风冷结构，适用于各种工况，提高轴承使用寿命。
- ② 平衡腔可以与入口相连，如遇易气化介质，也可与次级叶轮处相连，提高密封腔压力，减少气化可能性，增加安全可靠。
- ③ 首级叶轮采用吸入式叶轮，具有良好的吸入性能，可以缩短泵的插入深度。
- ④ 采用多点支撑滑动轴承结构，轴承间跨距的设计符合API标准要求，采用高耐磨材料，保证泵运行稳定。
- ⑤ 吸入吐出段采用型材焊接结构，无铸造缺陷，承压能力强。
- ⑥ 采用鼓-盘结构平衡轴向力，在运转中自动调整轴向间隙，实现轴向力完全的平衡，使轴承无轴向负载运行，使用寿命更长，运行更加安全。

### Structural Features

- ① Rolling bearing structure is applied with thin oil lubrication. It is designed with special lubricating oil circulation system and bearing has good lubrication effect. Meanwhile there are water cooling and air cooling structure, suitable for various working conditions and improving bearing life.
- ② The balance chamber can be connected to the inlet. If the medium is easy to vaporize, it can also be connected with the secondary impeller to increase the pressure in the seal chamber, reduce the possibility of gasification, and increase safety and reliability.
- ③ The first stage impeller adopts a suction impeller, which has good suction performance and can shorten the insertion depth of the pump.
- ④ The structure of multi-point support in sliding bearing is applied and the span between bearings has been designed to meet the requirements of API standards. The high wear-resistant materials for bearings are adopted to ensure stable operation of the pump.
- ⑤ Profile welded structure is adopted in suction and discharge section, with no casting defects and strong pressure bearing capacity.
- ⑥ The drum-disc structure is used to balance the axial force and automatically adjusts the axial clearance during operation. This can achieve a complete balance of axial force, making the bearing run without axial load. Pumps can have a longer service life and are safer to operate.

### 性能范围

流量范围：~1000m³/h  
扬程范围：~1000m  
适用温度：-100~250°C  
压力：可达15MPa

### Performance Range

Flow range : ~1000m³/h  
Head range : ~1000m  
Applicable temperature : -100~250°C  
Pressure : up to 15MPa



## KOW系列-混流泵

## KOW Series - Mixed Flow Pump

### 概述

该系列泵为卧式、单级、单吸、径向剖分悬臂式离心泵。设计标准为GB/T13008。  
该系列泵大流量、低扬程、效率高、能耗均匀，可在开阀下启动，过流面积大，不易堵塞。

### 应用范围

该系列泵广泛应用于石油化工、煤化工、化工流程、造纸工业、海水养殖、海水淡化、水处理等行业。

### Overview

This series of pumps is cantilevered centrifugal pump of horizontal, single-stage, single-suction, radial split type. The design standard is GB/T13008.

The pump can have large flow, low lift, high efficiency and uniform energy consumption. It can be started under the valve opening, and the flow area is large. It is not easy to be blocked.

### Application Range

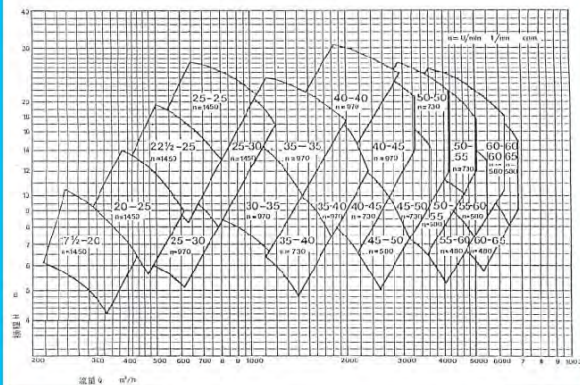
This series of pumps are widely used in petrochemical, coal chemical, chemical process, paper industry, marine aquaculture, seawater desalination, water treatment and other industries.

### 性能范围

流量范围：~2000m<sup>3</sup>/h  
扬程范围：~30m  
适用温度：-80~300°C  
压力：2.5MPa

### Performance Range

Flow range: ~2000m<sup>3</sup>/h  
Head range: ~30m  
Applicable temperature: -80~300°C  
Pressure: 2.5MPa

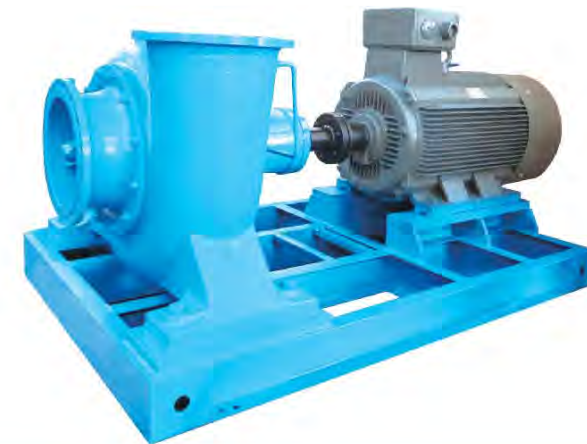


### 结构特点

- ① 叶轮设计为开式结构，不易堵塞，通过轴向调节装置调整轴向间隙，保证叶轮处于合适的间隙下工作。
- ② 轴承采用稀油润滑，并带有观察油位的视油窗及恒位油杯，保证轴承的正常工作。
- ③ 采用后开门结构，便于维修，由叶轮、泵盖及轴承箱体组成转子部件，可以从泵体中抽出，不需要拆卸进出口管路。
- ④ 机械密封腔尺寸符合API682标准，可配置任何机械密封及冲洗和冷却方案，还可配填料密封。

### Structural Features

- ① The impeller is designed as an open structure, which is not easy to block. The axial clearance is adjusted by the axial adjustment device to ensure that the impeller is working under a suitable clearance.
- ② The bearing is lubricated with thin oil, and has a sight oil window and a constant oil cup for observing the oil level to ensure the normal operation of the bearing.
- ③ Maintenance is facilitated by adopting the rear opening structure. The rotor component is composed of the impeller, the pump cover and the bearing housing, which can be extracted from the pump body without disassembling the inlet and outlet pipelines.
- ④ The mechanical seal chamber is sized to API 682 and can be configured with any mechanical seal and flushing as well as cooling scheme. It can also be fitted with a packing seal.



## KOX系列-卧式轴流泵

## KOX Series - Horizontal Axial Flow Pump

### 概述

该系列泵为卧式、单级、单吸、径向剖分悬臂式离心泵。设计标准为GB/T13008。

该系列泵是消化吸收国内外先进产品水力与结构设计而成，具有结构简单，维修便捷等特点。

### 应用范围

该系列泵广泛应用于制盐、制碱、柠檬酸、明粉等行业的蒸发浓缩装置的各种易结晶饱和溶液的强制循环。

### Overview

This series of pumps is cantilevered centrifugal pump of horizontal, single-stage, single-suction, radial split design. The design standard is GB/T 13008.

This series of pumps is designed to digest and absorb the hydraulic and structural design of advanced products at home and abroad. It has the characteristics of simple structure and convenient maintenance.

### Application Range

This series of pumps is widely used in the forced circulation of various easily crystallized saturated solutions in the evaporation and concentration devices in salt, alkali, citric acid and bright powder industries.

### 性能范围

流量范围：260~16000m<sup>3</sup>/h

扬程范围：2.5~5.5m

适用温度：0~180°C

压力：1.0MPa

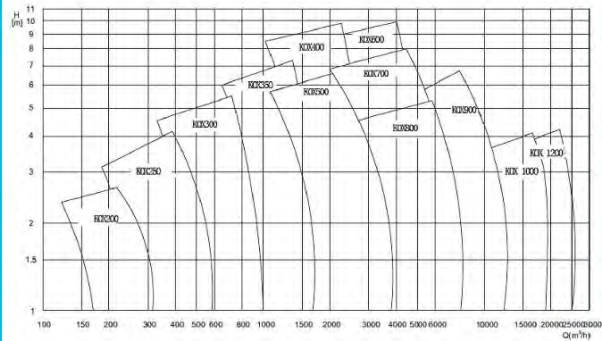
### Performance Range

Flow range : 260~16000m<sup>3</sup>/h

Head range : 2.5~5.5m

Applicable temperature : 0~180°C

Pressure : 1.0MPa

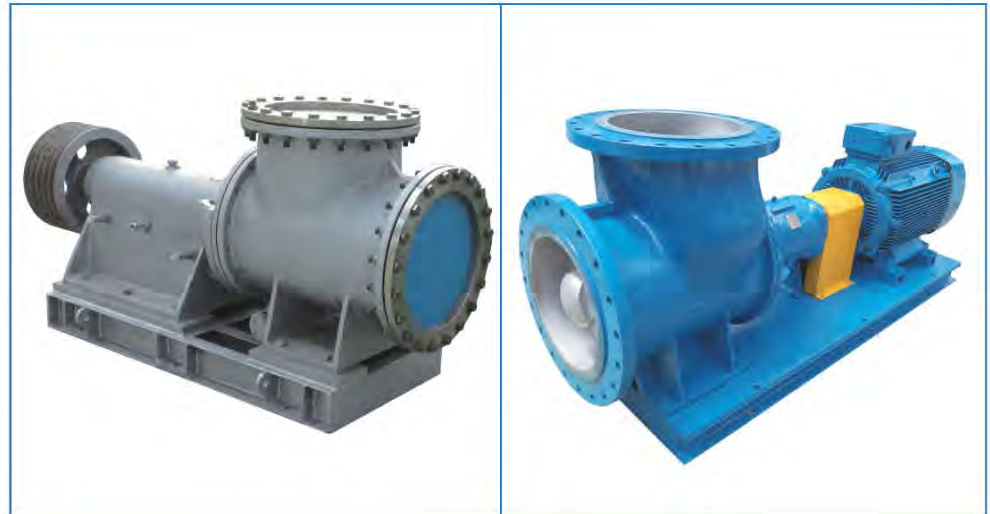


### 结构特点

- ① 泵体采用铸件结构，也可采用焊接结构。焊接结构适宜低碳钢和奥氏体钢。
- ② 轴向吸入，径向排出；或径向吸入，轴向排出。两种方案设计，满足各种工艺管线布置。
- ③ 轴承采用稀油润滑，并带有冷却装置对油进行冷却，以改善轴承的工作环境。
- ④ 可配置符合API682标准的任何机械密封及冲洗和冷却方案，还可配填料密封。
- ⑤ 可根据不同的转速要求，选择皮带轮传动或直连传动。

### Structural Features

- ① The pump body adopts a casting structure, and a welded structure can also be used. The welded structure is suitable for low carbon steel and austenitic steel.
- ② There are two plan designs: axial suction and radial discharge or radial suction, axial discharge. They are designed to meet various process pipeline arrangements.
- ③ The bearing is lubricated with thin oil and has a cooling device to cool the oil to improve the working environment of the bearing.
- ④ It can be configured with any mechanical seal, flushing and cooling scheme that complies with API 682 standard, and can also be fitted with a packing seal.
- ⑤ According to different speed requirements, choose pulley drive or direct drive.



## KVP系列-立式多级泵

## KVP Series - Vertical Multistage Pump

### 概述

该系列泵为立式、多级、单吸离心泵，设计标准为GB/T5656。

该系列泵适用于输送各种清洁的或有污染的、低温或高温介质，化学中性或有腐蚀的介质，尤其适合安装空间有限的场合。

### 应用范围

该系列泵广泛应用于市政工程、冶金钢铁、化工造纸、污水处理、电厂及农田水利工程等。

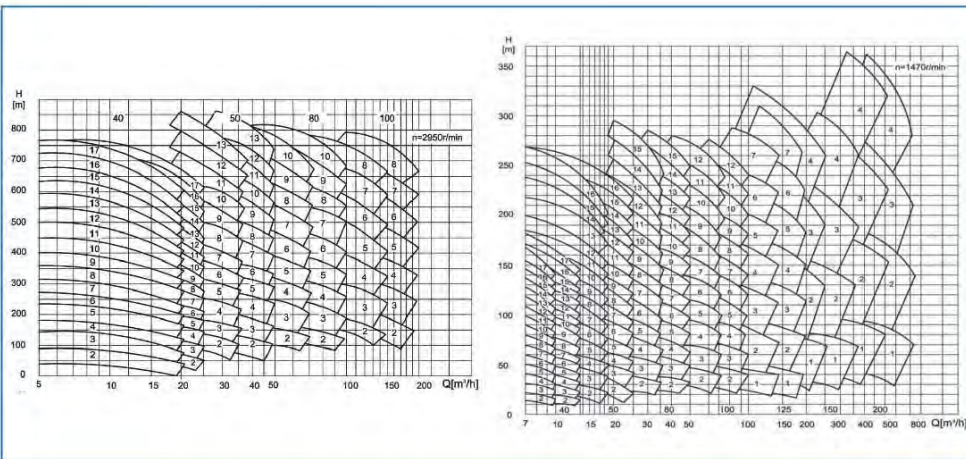
### Overview

This series of pumps is a vertical, multi-stage, single-suction centrifugal pump with a design standard of GB/T5656.

These pumps are suitable for conveying a wide range of clean or contaminated, low or high temperature medium, chemically neutral or corrosive medium, especially for applications where installation space is limited.

### Application Range

This series of pumps are widely used in municipal engineering, metallurgical steel, chemical papermaking, sewage treatment, power plants and farmland water conservancy projects, etc.



### 结构特点

- ① 轴承部件采用轴承套结构，可以在不拆卸泵主体部件的情况下对机械密封进行维修更换，方便快捷。
- ② 采用鼓-盘-鼓结构自动平衡轴向力，使泵运行更可靠。
- ③ 密封环及平衡装置采用耐腐蚀且高耐磨材质，使用寿命更长。
- ④ 主体部件均采用铸造结构，坚固耐用，稳定性好。
- ⑤ 下部采用特殊设计的滑动轴承结构，运行更加稳定。

### Structural Features

- ① The bearing parts adopt the bearing sleeve structure, which can repair and replace the mechanical seal without disassembling the main parts of the pump. This is convenient and quick.
- ② The drum-disc-drum structure is used to balance the axial force automatically to make the pump run more reliably.
- ③ The sealing ring and balancing device are made of corrosion-resistant and highly wear-resistant material for a longer service life.
- ④ The main parts are casted in structure, durable and stable.
- ⑤ The lower part adopts a specially designed sliding bearing structure for more stable operation.

### 性能范围

流量范围：5~500m³/h

扬程范围：~1000m

适用温度：-40~250℃

### Performance Range

Flow range : 5~500m³/h

Head range : ~1000m

Applicable temperature : -40~250℃



## KFB系列-立式无密封自控自吸泵 KFB Series - Vertical Non-seal and Self-control Self-priming Pump

### 概述

该系列泵为立式、单级或多级、单吸离心泵，设计标准为GB/T5656。

该系列泵是在吸收国内外相关产品的先进经验基础上，加以改进、创新的新产品。具有耐高温、耐压、耐磨、“一次引流、终身自吸”等多种功能。

### 应用范围

该系列泵广泛应用于电子、电力、化工、钢铁、医药、食品、电镀、环保、消防、市政、净水、国防军工、纺织印染、采掘选矿、民用建筑等行业。

### Overview

The pumps are centrifugal pumps of vertical, single or multi-stage, single-suction type in the design standard of GB/T5656.

This series of pumps is a new product that is improved and innovated based on the advanced experience from domestic and foreign related products. It has many functions such as temperature-resistance, pressure-resistance, wear-resistance and "first drainage and permanent self-priming".

### Application Range

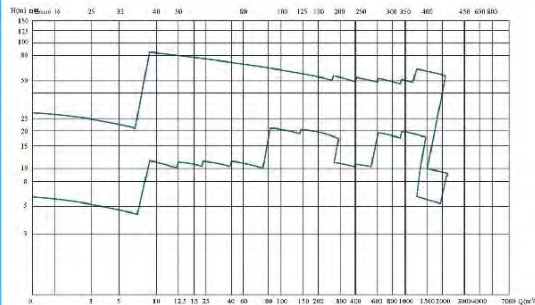
This series of pumps are widely used in electronics, electric power, chemical, steel, medicine, food, electroplating, environmental protection, fire protection, municipal, water purification, national defense, textile printing and dyeing, mining and mineral processing, civil construction and other industries.

### 性能范围

吸液口径：16~400mm 出液口径：10~350mm  
流量范围：2~2500m<sup>3</sup>/h 扬程范围：4~130m  
自吸深度：2.5~5m 适用温度：-40~80℃  
工作压力：≤1.6MPa

### Performance Range

Suction diameter: 16~400mm  
Drainage diameter: 10~350mm  
Flow range: 2~2500m<sup>3</sup>/h  
Head range: 4~130m  
Self-priming depth: 2.5~5m  
Applicable temperature: -40~80℃  
Working pressure: ≤1.6MPa



### 结构特点

- ① 采用动力密封装置，运行时无磨损，使用寿命较传统产品5倍以上，运行成本低；
- ② 自吸性能稳定可靠，特别是采用“电动空气控制阀”，真正实现了“首次引流、永久自吸”；
- ③ 机组振动小，噪音低，不需地脚固定，移动灵活，拆装方便；
- ④ 具有优越的自控功能，可与相关控制系统配套，实现高度自动化。

### Structural Features

- ① Dynamic sealing device, no wear during operation, service life more than 5 times compared with traditional products and low operating cost;
- ② Self-priming performance is stable and reliable, especially by using "electric air control valve", which truly realizes "first drainage and permanent self-priming";
- ③ The unit has small vibration, low noise, no need to fix the foot, flexible movement and convenient for assembly and disassembly;
- ④ With superior self-control function, it can be matched with relevant control system to achieve high automation.



# M 主要客户

ain Customers

# M 主要客户

ain Customers

## 国际客户

## International Customers

 <b>ROSNEFT</b> 俄罗斯石油公司	 <b>PETRONAS</b> 马来西亚国家石油公司
 <b>NIOC</b> 伊朗国家石油公司	 <b>PDVSA</b> 委内瑞拉国家石油公司
 <b>DOW</b> 陶氏化学	 <b>ARKEMA</b> 阿克玛集团
 哈萨克斯坦油气田	 <b>壳牌石油</b>

## 国内客户

## Domestic Customers

 中国石油集团	 浙江石化	 中粮集团	 中国石化集团	 中国寰球工程公司	 阳煤集团
 <b>SHEN MA</b> 河南神马尼龙化工	 <b>DFHG</b> 南京东方化工	 南京帝斯曼	 河南油田	 湖南华菱湘潭钢铁	 河南中原大化
 <b>wanhua</b> 万华集团	 齐鲁石化公司	 <b>中国武钢</b> 武汉钢铁集团	 延长石油	 <b>BAOSTEEL</b> 上海宝钢集团	 <b>南京钢铁集团</b>
 <b>长城汽车</b> 长城汽车	 <b>丰原生化</b> 安徽丰原生化	 <b>唐</b> 中国大唐电力集团	 <b>CLHRC</b> 独山子石化	 <b>BYD</b> 比亚迪汽车	 <b>本溪钢铁集团有限公司</b> 本溪钢铁集团
 中国五环工程有限公司	 <b>中国一重</b> 中国一重	 <b>大化</b> 大化集团	 中国神华集团	 <b>TCC</b> 中国天辰工程公司	 格尔木炼油厂
 中石化宁波公司	 中石化上海工程公司	 <b>SEI</b> 中国石化建设总公司	 中国成达工程有限公司		