

單級雙吸離心泵

SINGLE-STAGE DOUBLE SUCTION CENTRIFUGAL PUMP



联系我们

[www.u-flo.cn](http://www.u-flo.cn)

**营销中心 Marketing Headquarters**

ADD: 南京市江宁区清水亭西路51号-南京俊杰科创大厦9楼(211102)

Floor No.9, Nanjing Junjie Kechuang Building, No.51 Qingshui Ting West Road, Jiangning District, Nanjing (211102)

TEL: (86) 25-52231105 / 52230907 / 52230921 / 84846376 FAX: (86) 25-52230912

**中国工厂 Chinese Factory**

ADD: 南京市溧水经济开发区南区罗马工业园18号 (211200)

18# Rome Industry Park, Southern District, Lishui Economic Development Zone, Nanjing

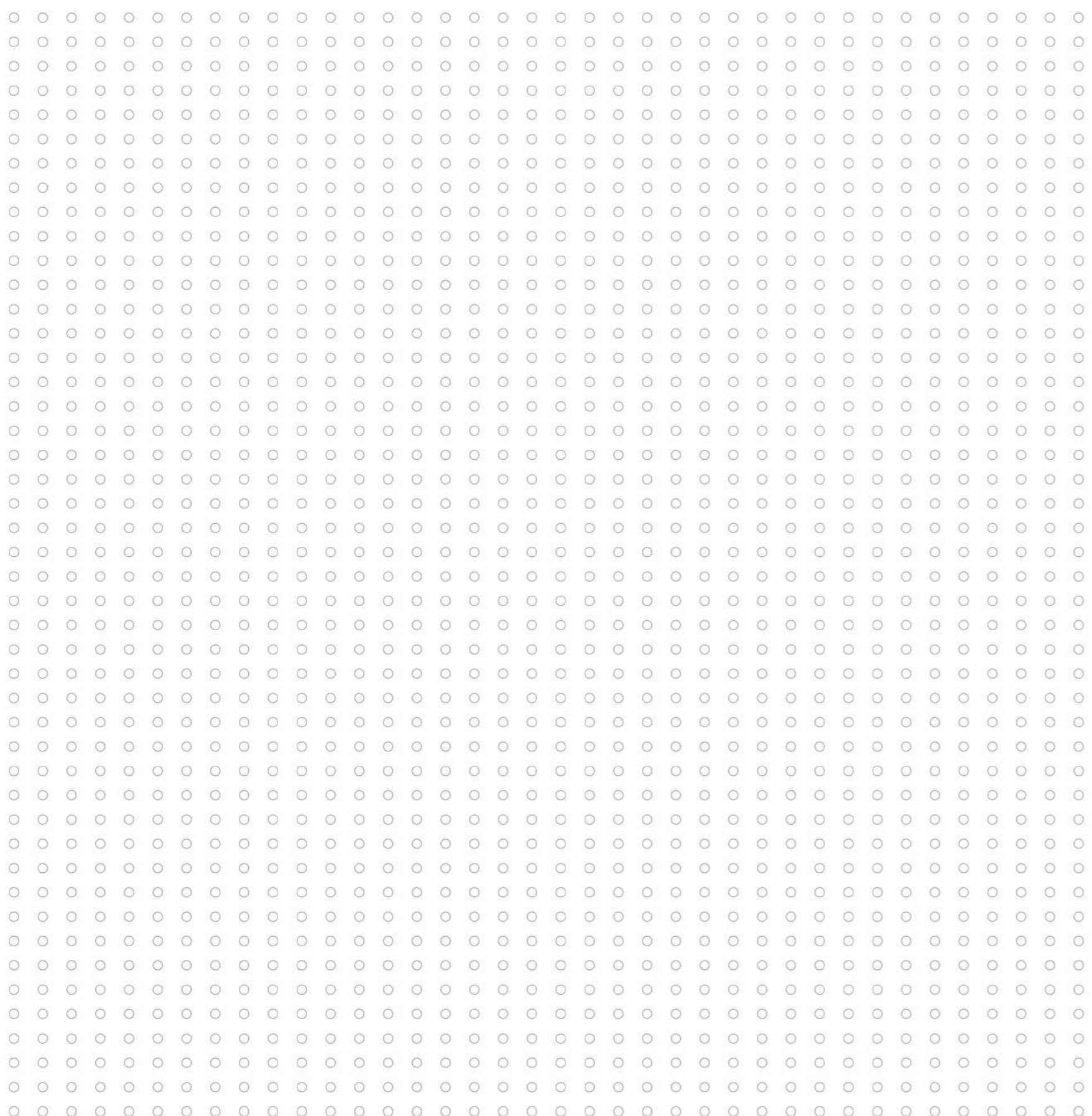
TEL: (86) 25-56610801 / 56610802 / 56610803 / 56610805 / 56610815 FAX: (86) 25-56610806

销售服务热线: 400-100-8486 售后服务热线: 400-108-8170

PFS SERIES  
DOUBLE SUCTION  
CENTRIFUGAL  
PUMP



# Contents 目录



## 03/04 COMPANY PROFILE 公司介绍

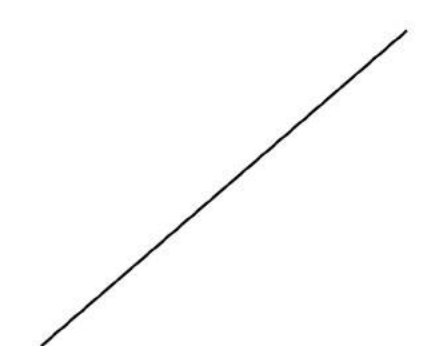
U.S. U-flo  
美国尤孚  
U-flo in China  
尤孚中国

## 05/66 PRODUCTS 产品介绍

PFS SERIES  
单级双吸离心泵  
PERFORMANCE CURVES  
单级双吸泵型谱  
PERFORMANCE CURVE CHART  
性能曲线图  
PERFORMANCE DATA  
性能参数  
APPEARANCE AND INSTALLATION SIZE  
外型及安装尺寸

## 67/72 OTHERS 其他

TECHNOLOGY INDEX  
技术索引





Quality In The Water



U-FLO U.S. 美國尤孚

U-flo Pumps International LLC is a global water pump manufacturing and marketing company registered in Washington, USA. Our cooperated manufacturing facilities are located in Italy, Taiwan and China. Our primary products include Deep-well Pumps, Above-ground Pumps, Sewage Pumps, Pumping Systems. They are widely used in power plants, paper mills, steel plants, agriculture irrigations, construction trades, industrial applications, mining operations, municipal utilities as well as oil/gas fields.

Integrity, Innovation, International

Since the first U-FLO water pump was manufactured, our people have been making unremitting endeavor to improve designs of the U-FLO water pump products. We apply the best industry practices and the best suitable materials for key components to the design and manufacturing of our pumps.

In addition to our state of art manufacturing facilities, we put a big effort on pump testing. Every product undergoes a rigorous testing and inspection process before being shipped to our customers. Our test facility incorporates a 12000 cubic meter (52,834 gallon) closed loop system with testing capacity of up to 600m<sup>3</sup>/h (2640GPM) with the maximum head of 200m (656ft), and 250 horsepower (dual voltages of 50Hz and 60Hz). Following a strict quality management system, all of our facilities are ISO 9001 and ISO 4001 certified.

Water is a vital part of our natural resources. While we always pursue the excellence of our products and services, we also take every step to promote environment-friendly and energy-saving solutions.

As a global pump manufacturer and supplier, U-FLO is committed to producing the finest water pumps in the world and continues to lead the way forward in the pumping industry.

U-flo 泵业国际有限公司是一家注册于美国华盛顿州的全球化水泵制造销售公司。我们在意大利、中国台湾和中国大陆均有合作制造工厂。我们主要产品包括深井泵、地面泵、污水泵和供水设备。产品广泛应用于电厂、造纸厂、钢厂、农业灌溉、建筑、工业应用、矿山、市政以及油田领域。

诚信、创新、国际化

自第一台 U-flo 水泵出厂以来，我们一直不懈努力，致力于改进 U-flo 水泵的设计。我们以最高的行业要求和最佳材料设计和制造水泵。

在严抓工艺水平的同时，我们还致力于水泵的测试。每一台水泵在出厂前均需要经过严格的测试和检验。我们的测试台含 12000 立方米 (52,834 加仑) 闭式循环系统，最大测试流量达 600m<sup>3</sup>/h(2640GPM)，最高扬程为 200m(656ft)，250 马力 (双电压 50Hz、60Hz)。按照严格的质量管理体系，我们所有的工厂均通过 ISO9001 和 ISO14001 认证。

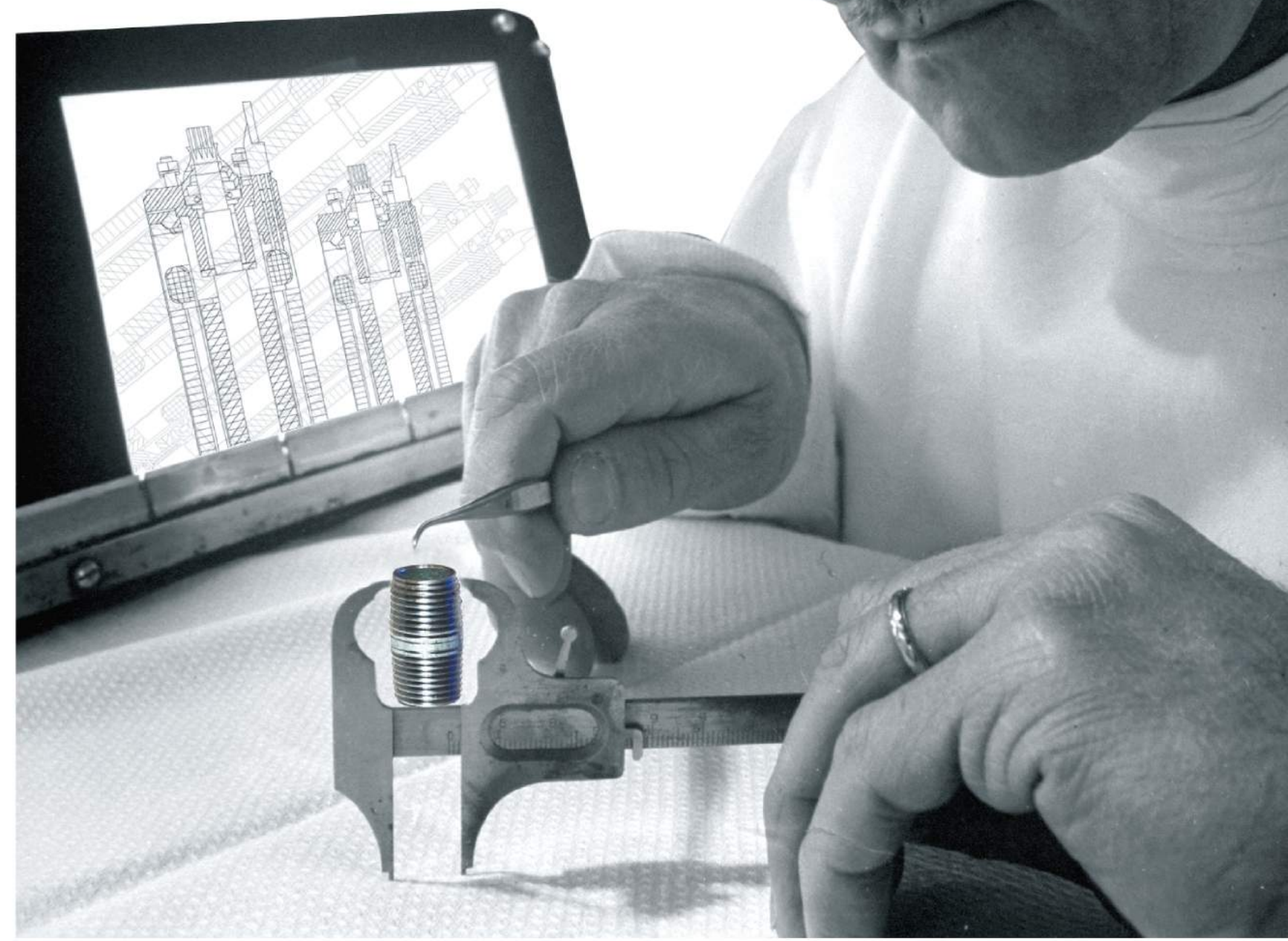
水是自然资源的重要组成部分，我们在追求卓越的产品和服务的同时，亦在努力推广环保和节能解决方案。

作为全球水泵制造商和供应商，U-flo 致力于生产全球最好的水泵，成为水泵行业的领跑者。



Quality witness responsibility Technology create reliability

品质见证责任 专业成就信赖!



## Design & production 设计和制造

Design and production are all made internally at U-flo's facilities, with a quality and process systems in accordance to the ISO9001 standards; as a further results of its environmental orientation, U-flo, in the 2011, got the ambitious ISO14001 Certificate proving that its production processes comply with the very strict rules imposed by the IO14001 Certificate.

U-flo自主设计和制造，质量及生产系统符合ISO9001标准。更因为U-flo准确的环境定位，2011年获得ISO14001认证，充分证明生产过程符合ISO14001标准。

## Product application scope 产品应用范围

Wide application field: it can be widely used in high-rise water supply, building fire protection, central air conditioning cycle, circulating water supply of engineering system, cooling water circulation, boiler water supply, industrial water supply and draining, irrigation, especially apply to water plants, power plants, paper plants, steel plants and chemical plants.

应用领域广：可广泛应用于高楼供水，建筑消防，中央空调水循环。工程系统中循环供水、冷却水循环、锅炉供水、工业给水排水、水利灌溉、特别适用于水厂、电厂、纸厂、钢厂，化工厂。

U-FLO reserves the right to make modifications without notice.

U-FLO 有权对产品进行修改，恕不另行通知。



## DOUBLE SUCTION CENTRIFUGAL PUMP

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

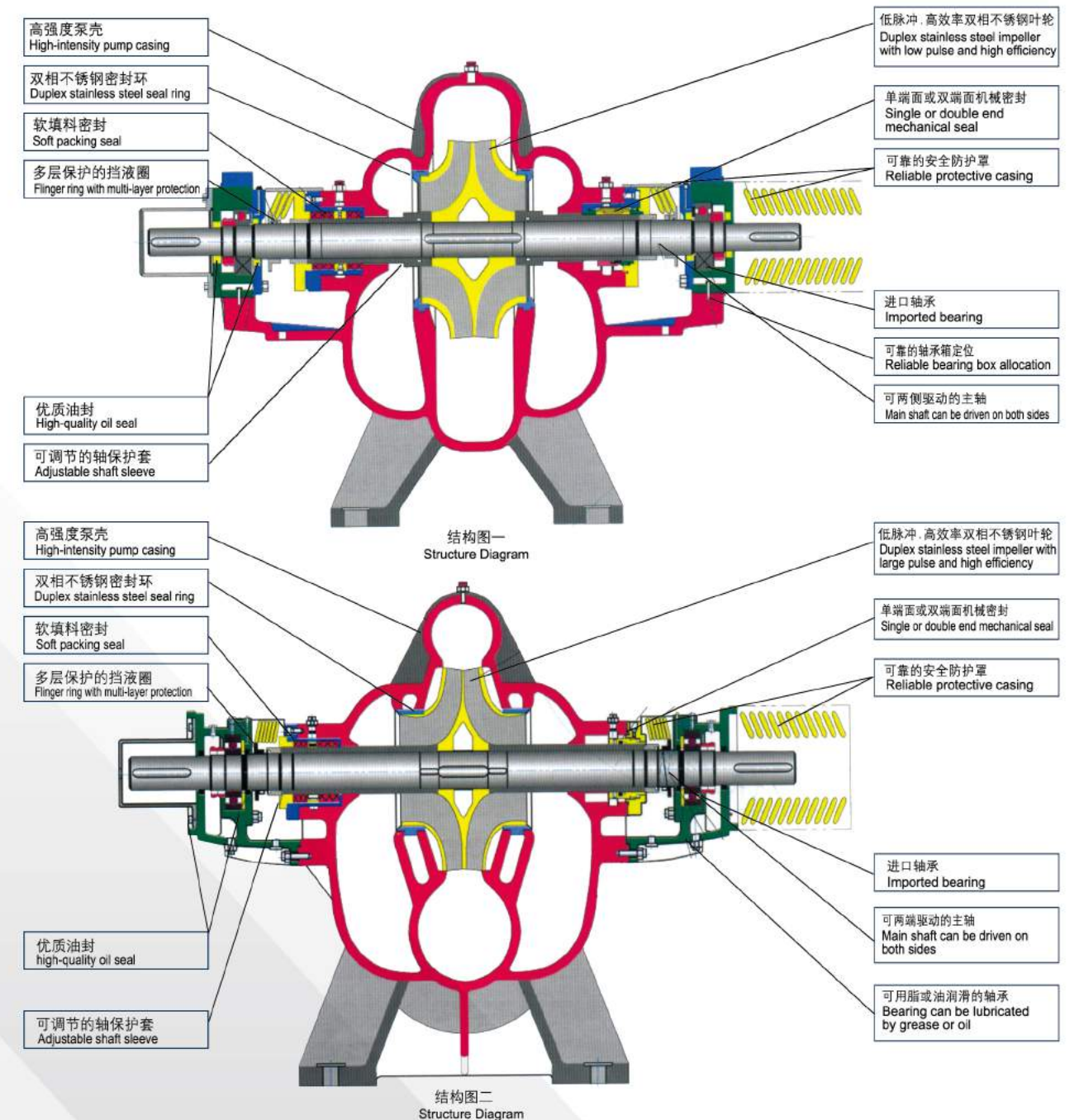


## I、Features 特点

1. Excellent hydraulic model: high efficiency up to 97%.
2. Different shaft seals are available, such as packing seal, injected soft packing seal and mechanical seal.
3. Independent shaft seal box: packing seal, injected soft packing seal and mechanical seal can be exchanged by changing shaft seal parts without moving other parts.
4. Double shaft extension: pump can be driven by both ends as customer required without any position limitation.
5. Reliable bearing and seal: adopt imported SKF or NSK bearing and oil seal. Bearing is lubricated by grease or oil with multi protection.
6. Wear-resistant & corrosive-resistant shaft sleeve design: main shaft is protected by shaft sleeve. The pumped medium will not contact with main shaft directly in actual operation, thus cause no wear to the main shaft.
7. Reliable bearing base location: adopt locating pin or fluting location. Semi structure bearing is easy to install and maintain.
8. The main shaft standard material is 2CR13, 304SS, 316SS or 904L is available. Bolts and other connecting parts can adopt all stainless steel material.

1. 最佳的水力模型——效率高，最高效率可达97%。
2. 轴封有填料密封，注入式软填料密封，机械密封等多种可选择。
3. 独立的轴密封盒——其余零件不动，只要更换轴封部件，可以实现填料，注入式的软填料，单端面，双端面，机械密封等密封形式的互换。
4. 泵轴采用双轴伸式结构——可以分别由泵的两端驱动，不受场地限制，在泵的哪一端可由用户随意确定。
5. 可靠的轴承及密封：采用进口SKF或NSK深沟球轴承和油封，轴承采用脂或油润滑，并对轴承采用多层保护措施。
6. 耐磨、耐蚀轴保护套的设计：主轴被轴套保护，实际运行中主轴无摩擦，同时不与所抽送介质直接接触。
7. 轴承座定位可靠：其定位分别采用定位销或止口形式定位，定位可靠。PFS泵轴承座采用分半式结构，易安装维护。
8. 主轴的正常最低配置为2CR13，可选配304，316，904L等材质。螺栓等联接件可以全部选用不锈钢材质。

## II、STRUCTURE DIAGRAM 结构示意图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

PFS1100

PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### III、FEATURES 特点



#### OPTIMIZED HYDRAULIC MODEL 最佳水力模型

Hydraulic model was designed by advanced computing method of fluid mechanics and computer-aided method.  
用先进的流体力学计算方法及计算机辅助方法设计的水力模型

#### DUAL-PHASE FLOW IMPELLER, SYMMETRICAL IMPELLER 双相流叶轮、对称式叶轮

Low energy loss 低耗冲      Optimized flow performance 优化的流动性能      High efficiency 高效率

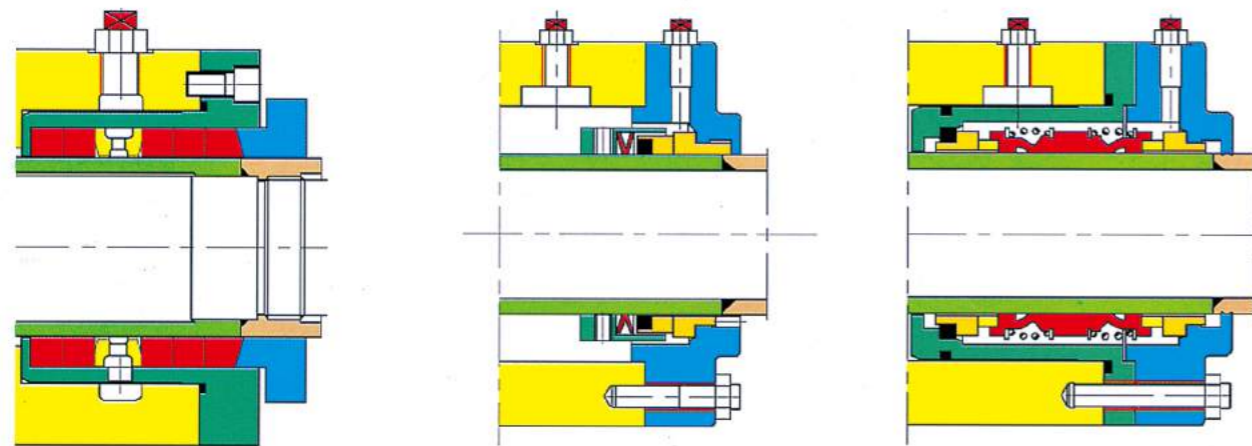
#### DIAPHRAGM COUPLING 膜片式联轴器

Excellent automatically compensated centration ability  
自动补偿对中能力强  
High transmission efficiency, obvious damping action  
传动效率高, 有明显的减震作用

#### DOUBLE SHAFT EXTENSION 泵轴双轴伸向

Can be driven on both ends  
可以分别由泵的两端驱动

#### INDEPENDENT SHAFT SEAL CHAMBER 独立的轴密封腔体



Packing seal 填料密封

Single end mechanical seal 单端面机械密封

Double-end mechanical seal 双端面机械密封

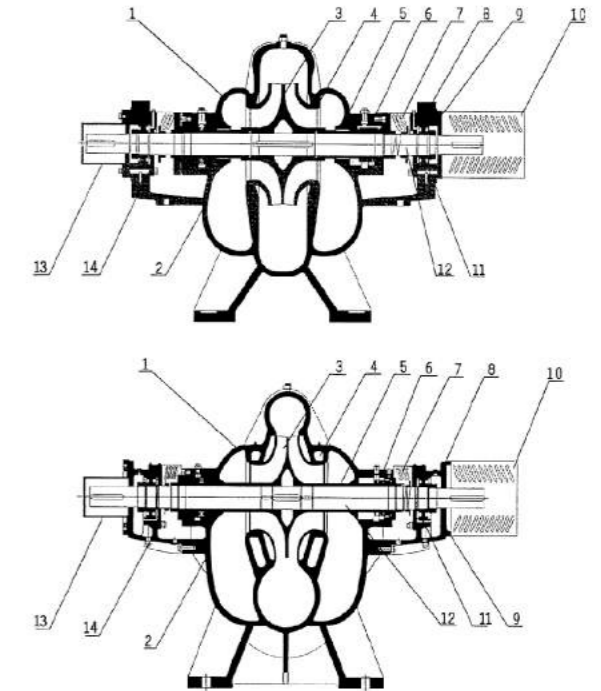
# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### IV、PUMP STRUCTURE 泵的结构

#### STRUCTURE DIAGRAM 结构示意图

1	Pump cover	泵盖
2	Pump body	泵体
3	Impeller	叶轮
4	Double suction seal ring	双吸密封环
5	Shaft sleeve	轴套
6	Shaft seal parts	轴封部件
7	Shaft seal casing	轴封护罩
8	Bearing gland	轴承体压盖
9	Bearing body	轴承体
10	Coupling sleeve	联轴器护罩
11	Bearing	轴承
12	Shaft	轴
13	Shaft sleeve	轴防护罩
14	Bearing cover	轴承盖



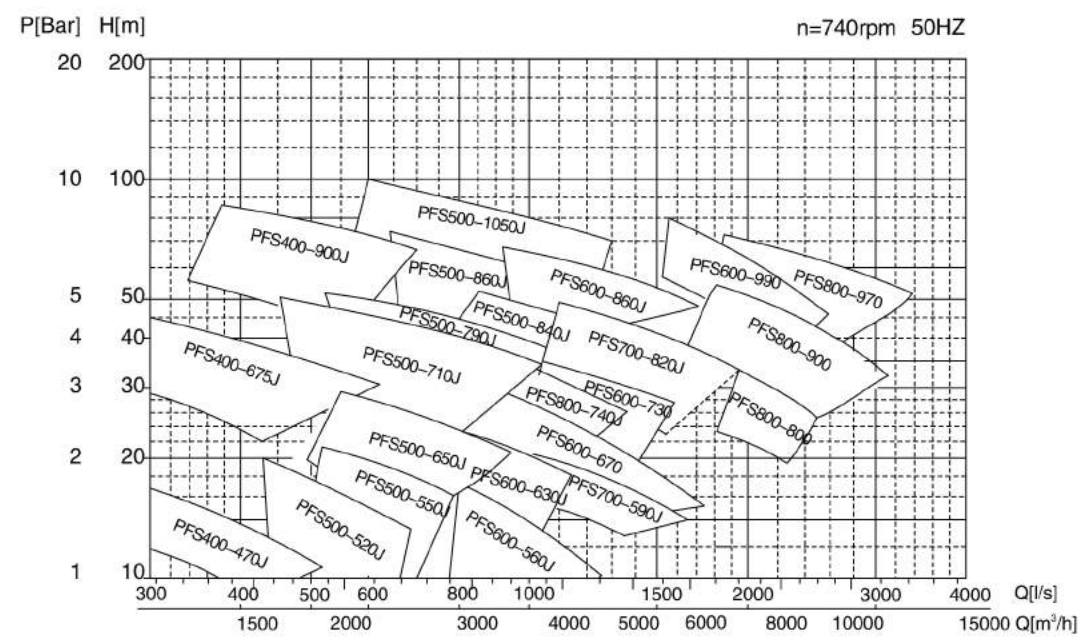
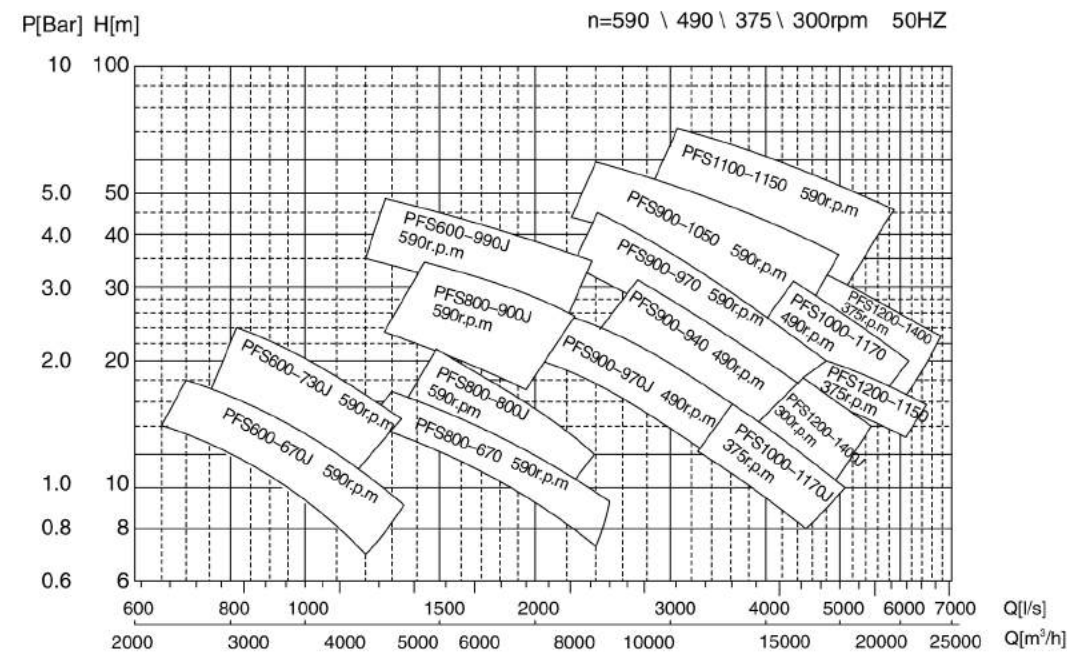
### V、HIGH-QUALITY MATERIAL 优质材料

Part name 零件名称	Main material 主要材料			Part name 零件名称	Main material 主要材料		
	Ordinary IM(CC) 普通型IM(CC)	Standard IS(CD) 标准型IS(CD)	Enhanced WI(DD) 增强型WI(DD)		Ordinary IM(CC) 普通型IM(CC)	Standard IS(CD) 标准型IS(CD)	Enhanced WI(DD) 增强型WI(DD)
Pump body, pump cover 泵体、泵盖	HT250	HT250	1.4660 (铸)	Pump body, pump cover 密封函体	HT250	CF-8M	CF-8M
Impeller 叶轮	HT250	1.4660 (铸)	1.4660 (铸)	Impeller 密封压盖	HT250	CF-8M	CF-8M
Pump shaft 泵轴	40Cr	2Cr13	1.4662	Pump shaft 填料环	HT250	CF-8M	CF-8M
Shaft sleeve 轴套	ZG20Cr13	1.4660 (铸)	1.4660 (铸)	Shaft sleeve 挡液圈	ZG20Cr13	ZG20Cr13	ZG20Cr13
Double suction seal sleeve 双吸密封套	HT250	1.4660 (铸)	1.4660 (铸)	Double suction seal sleeve 轴承体、轴承盖	HT250	HT250	HT250
Sleeve nut 轴套螺母	45	2Cr13	2Cr13	Sleeve nut 螺栓等联接件	Q235A	OCr18Ni9	OCr18Ni9

# DOUBLE SUCTION CENTRIFUGAL PUMP

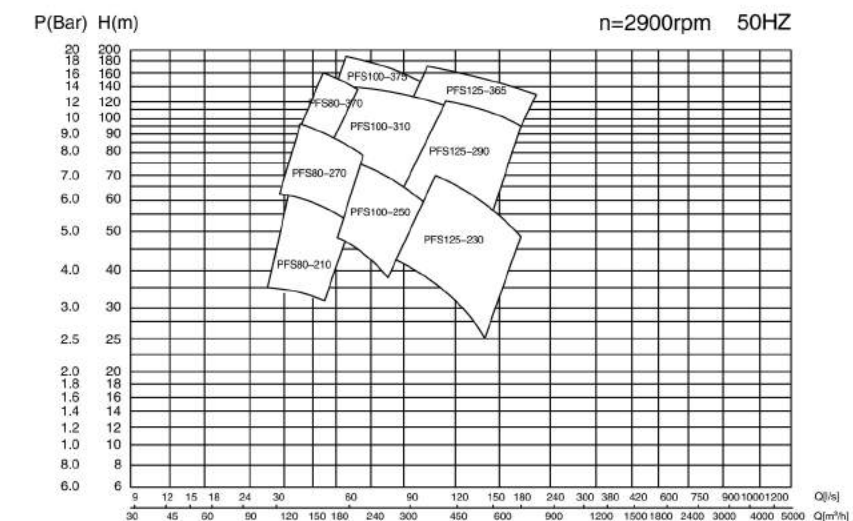
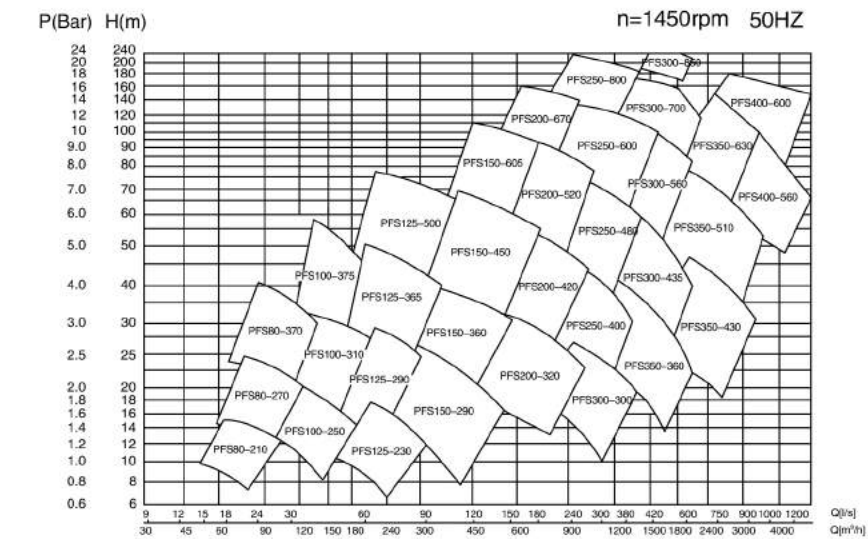
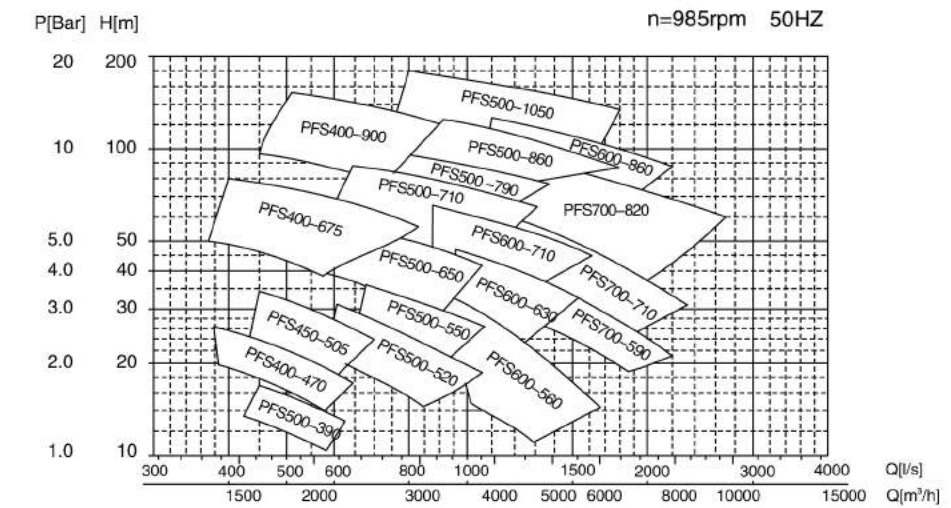
## PFS SERIES / 单级双吸离心泵 PFS系列

### VI、PERFORMANCE CURVES PFS单级双吸泵型谱



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

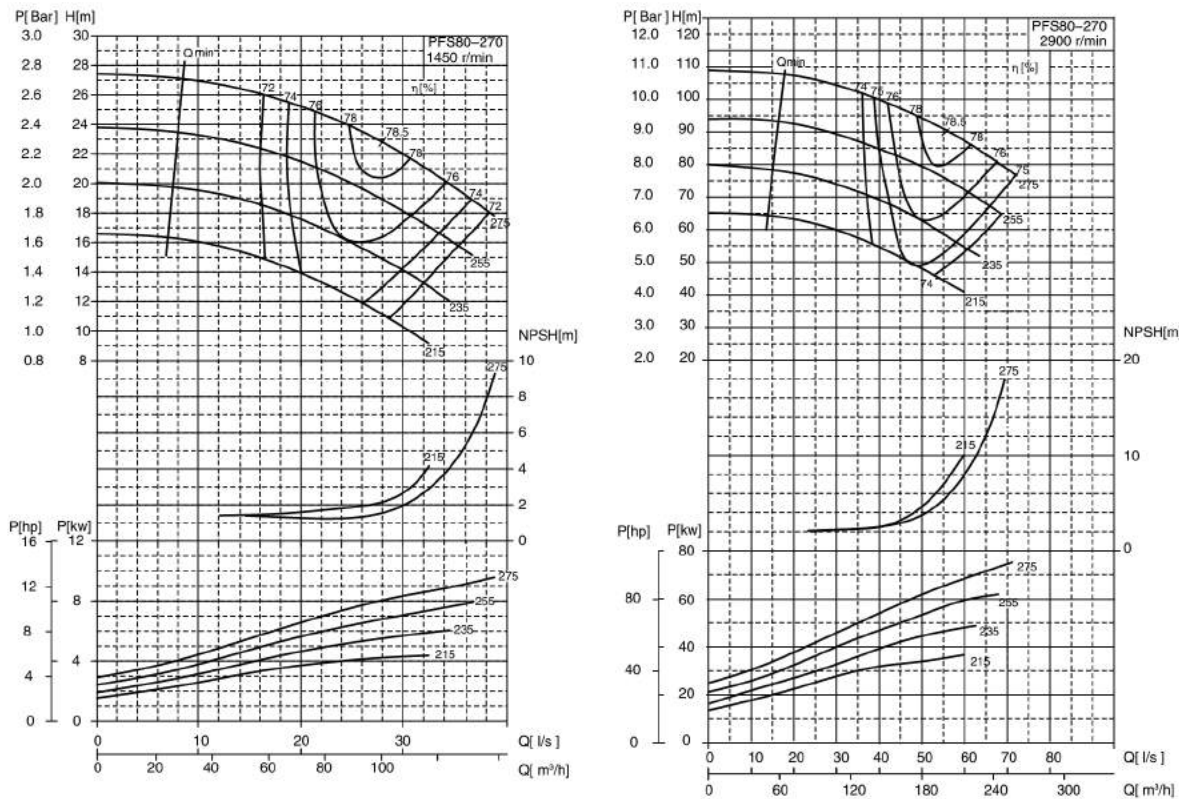
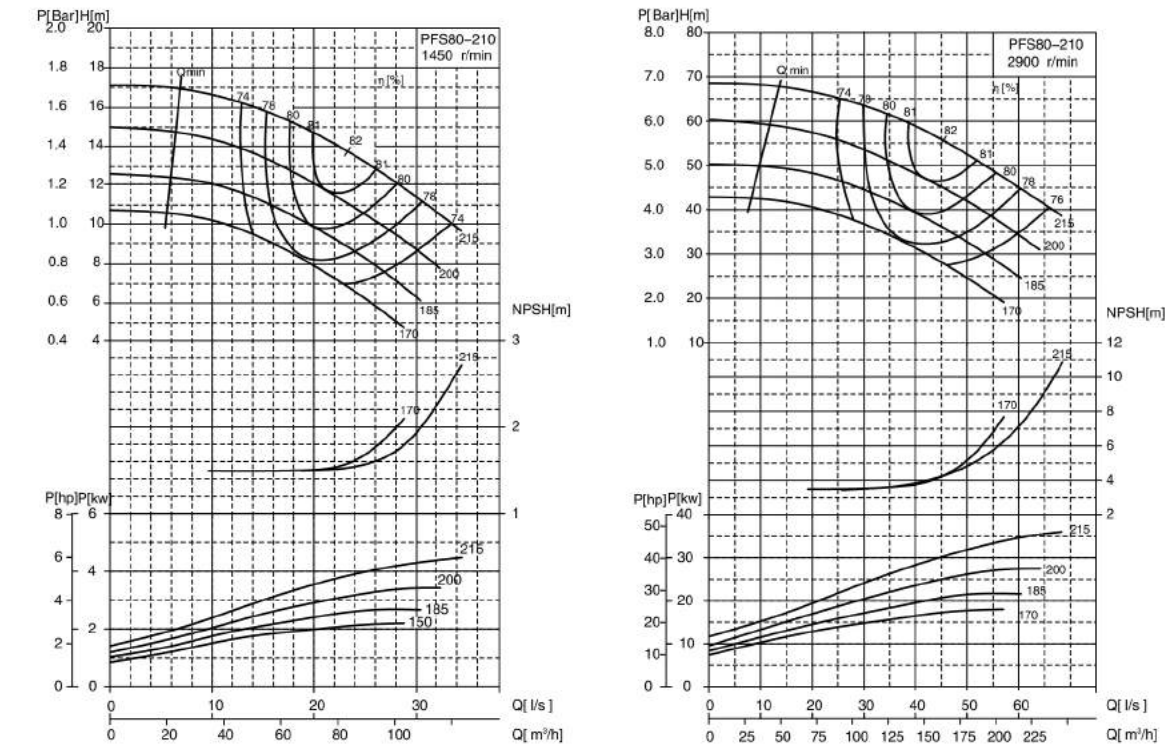
PFS1100

PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

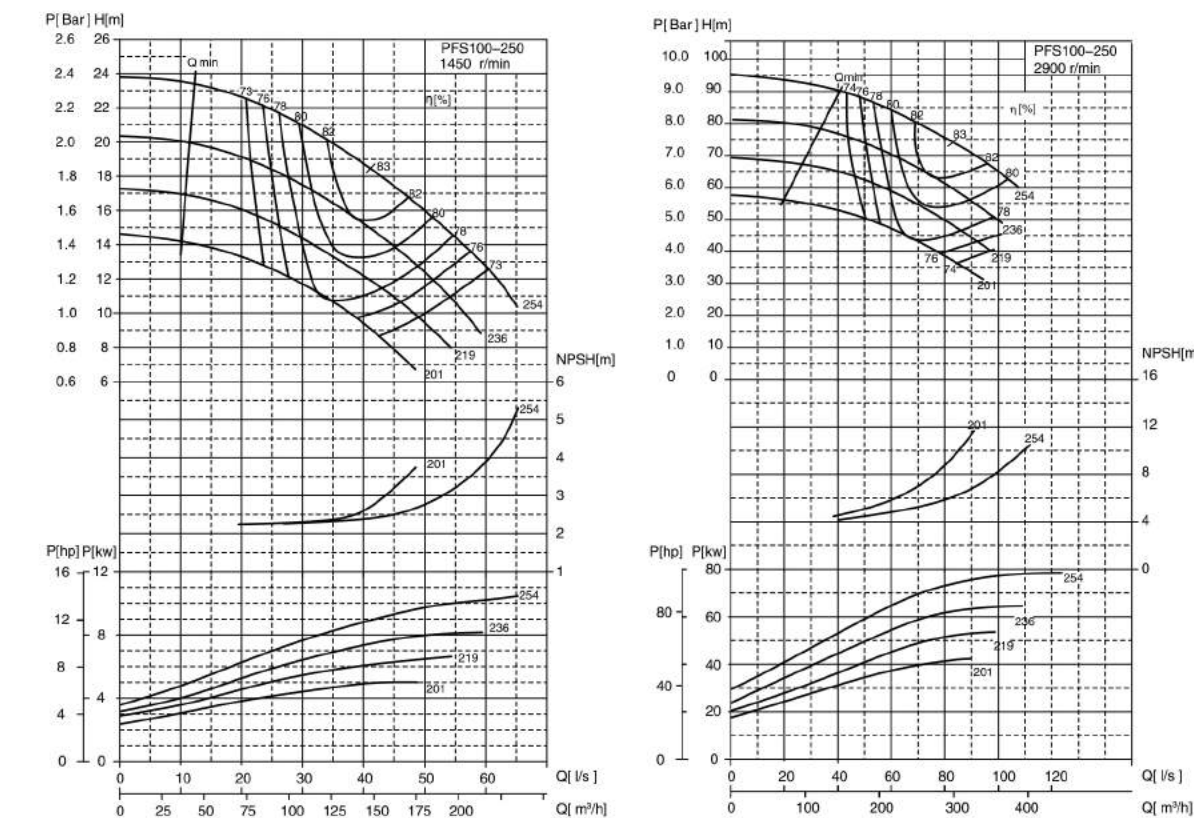
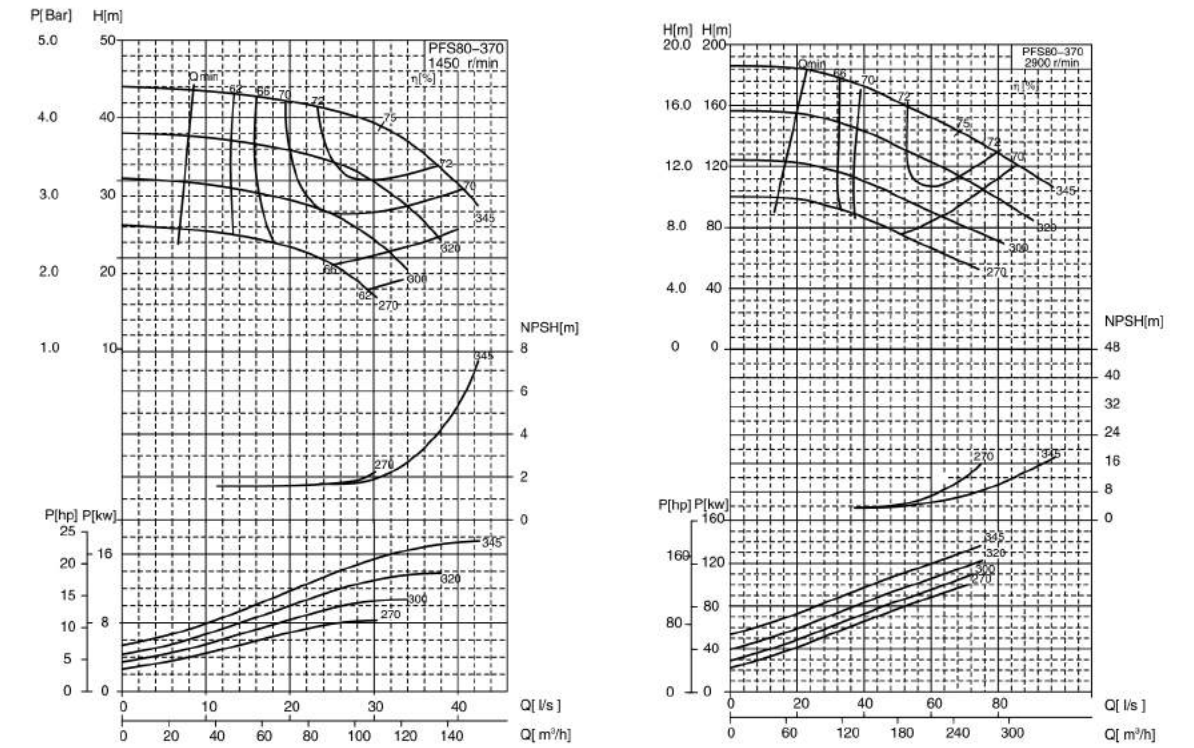
### VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

PFS1100

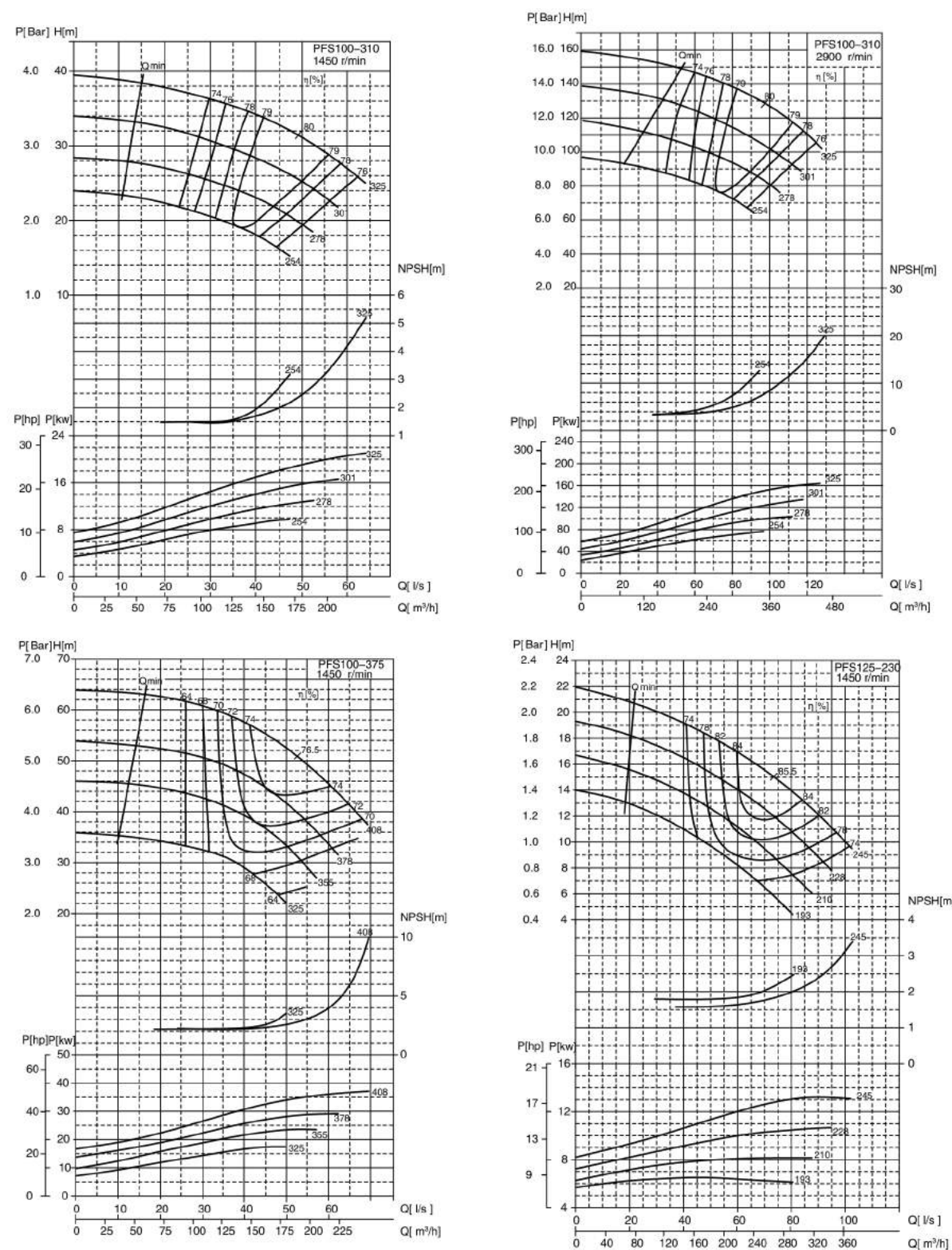
PFS1200



# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

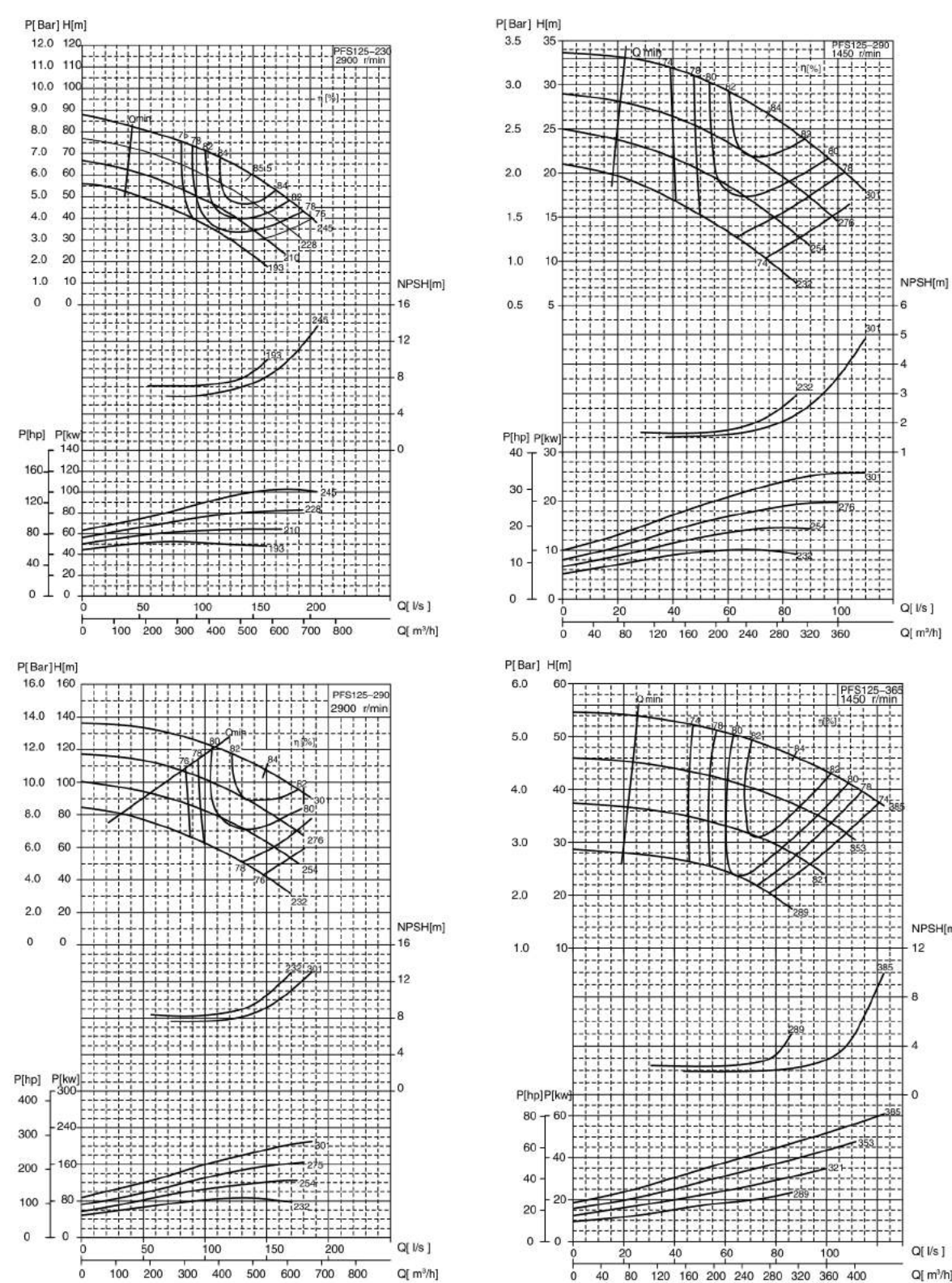
## VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

## VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

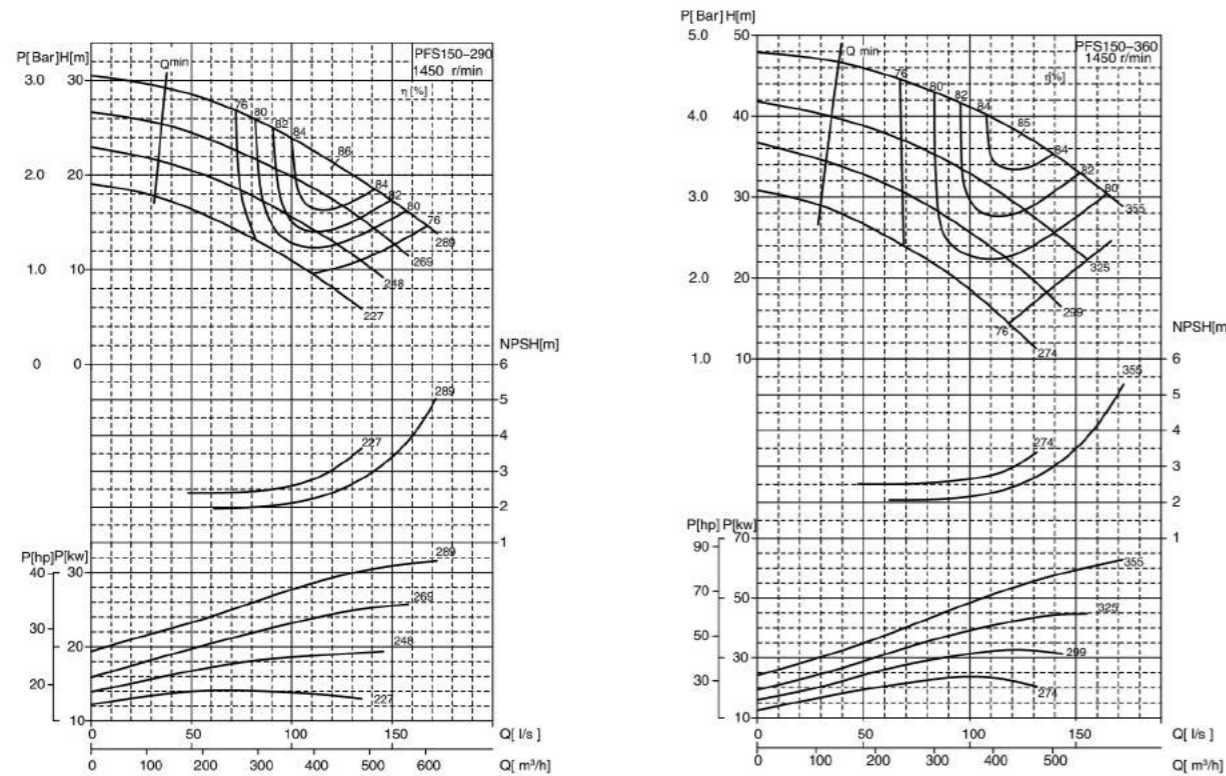
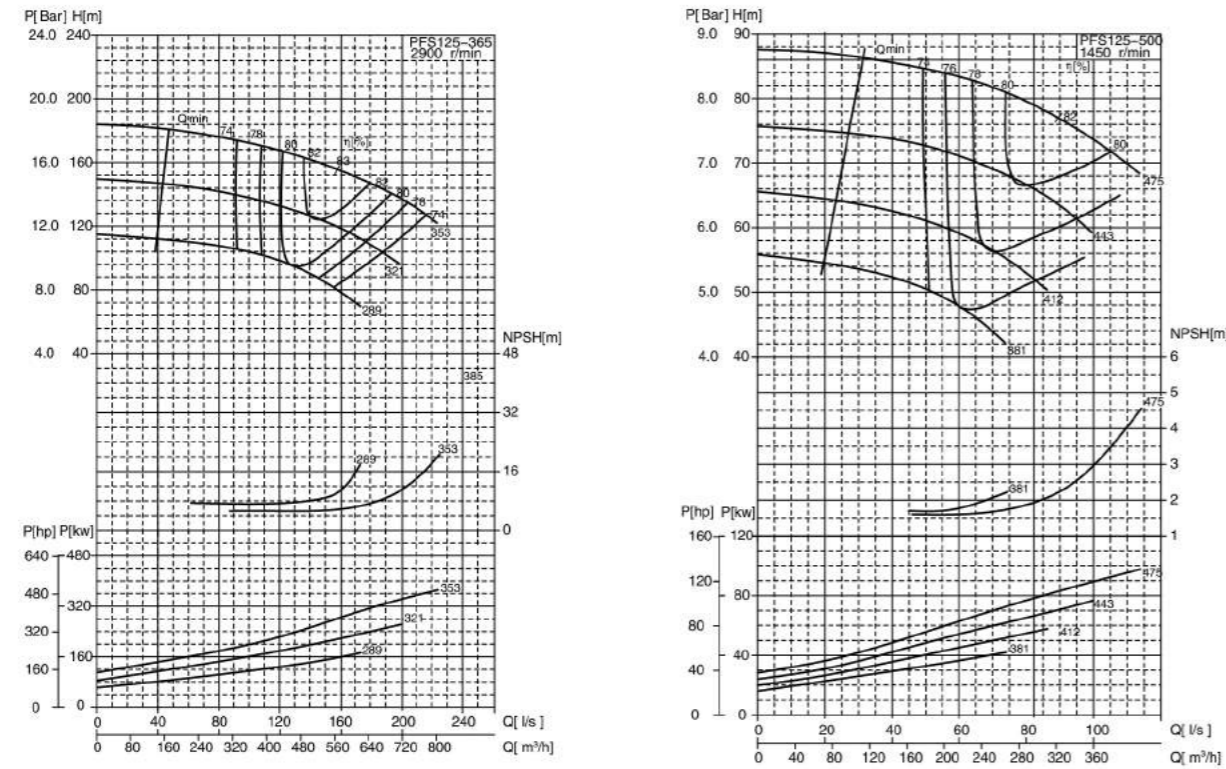
PFS1100

PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

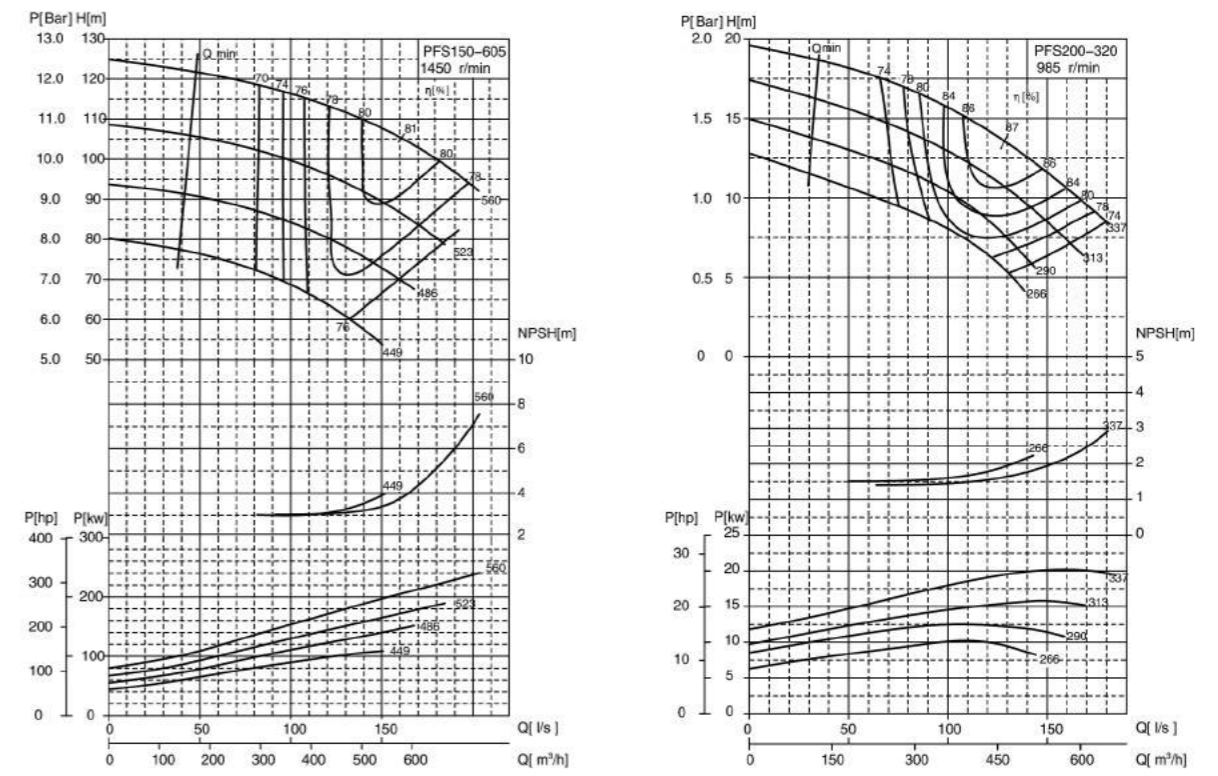
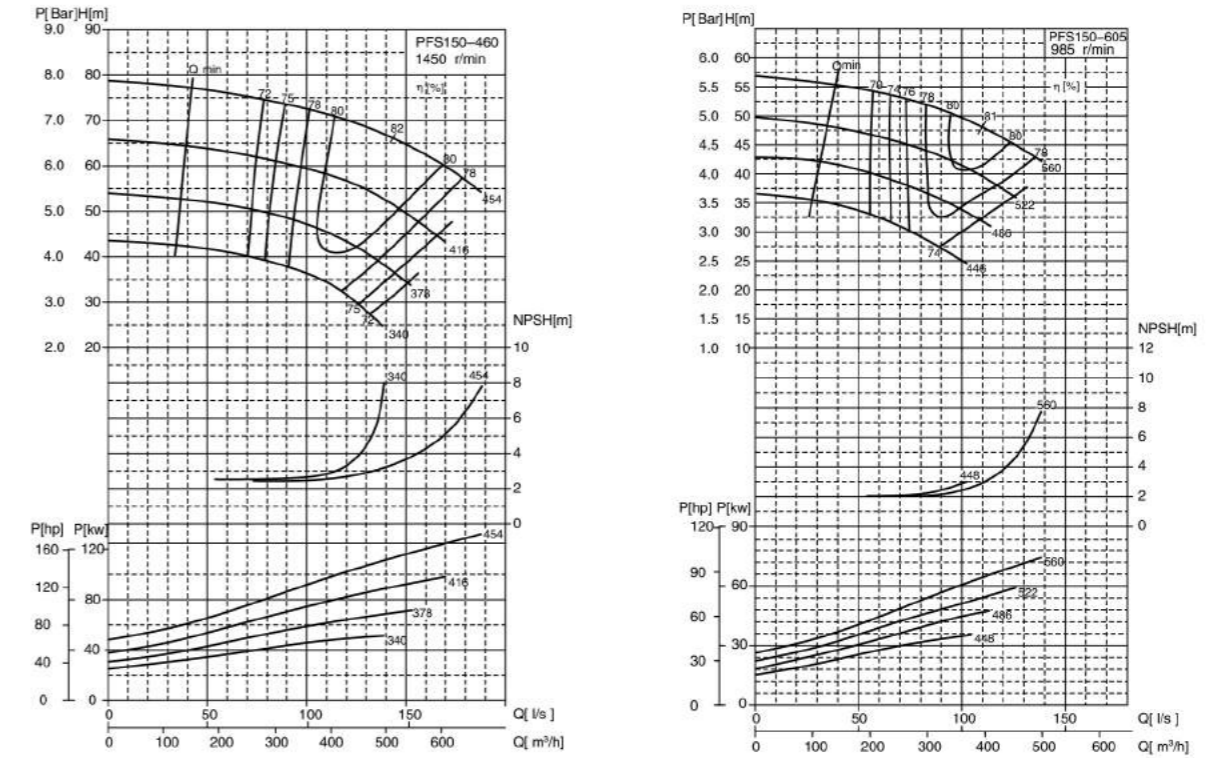
### VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

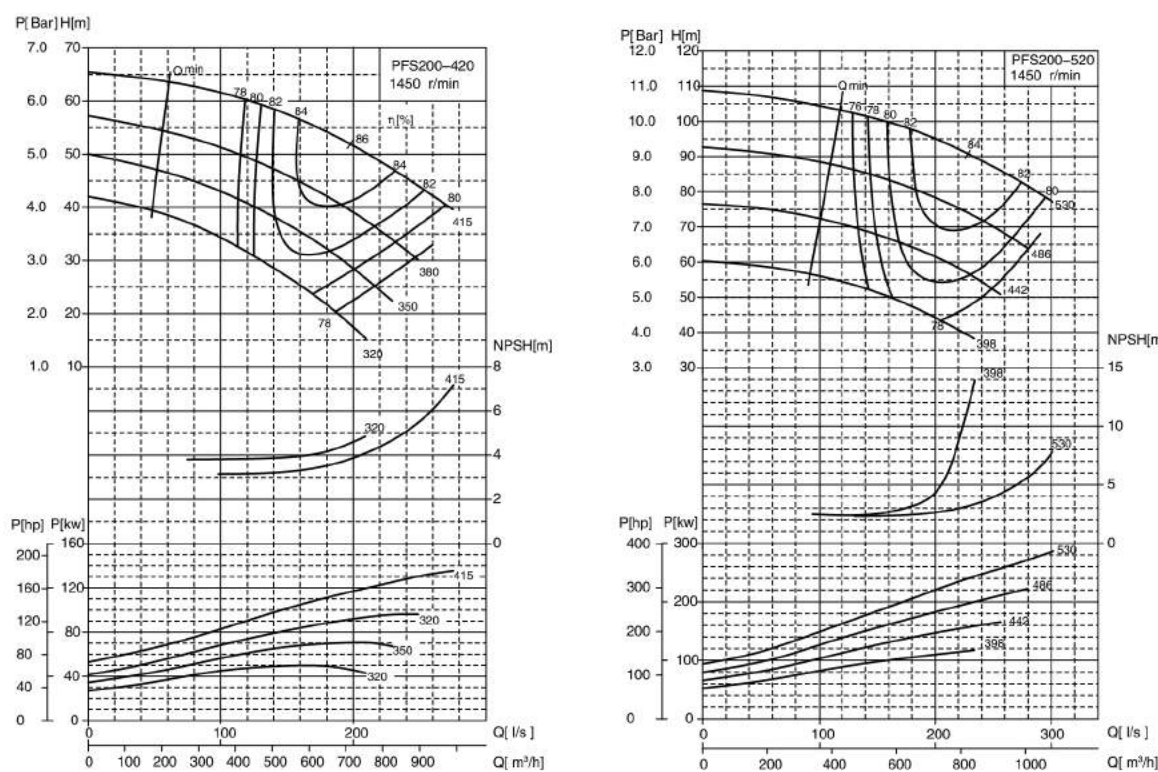
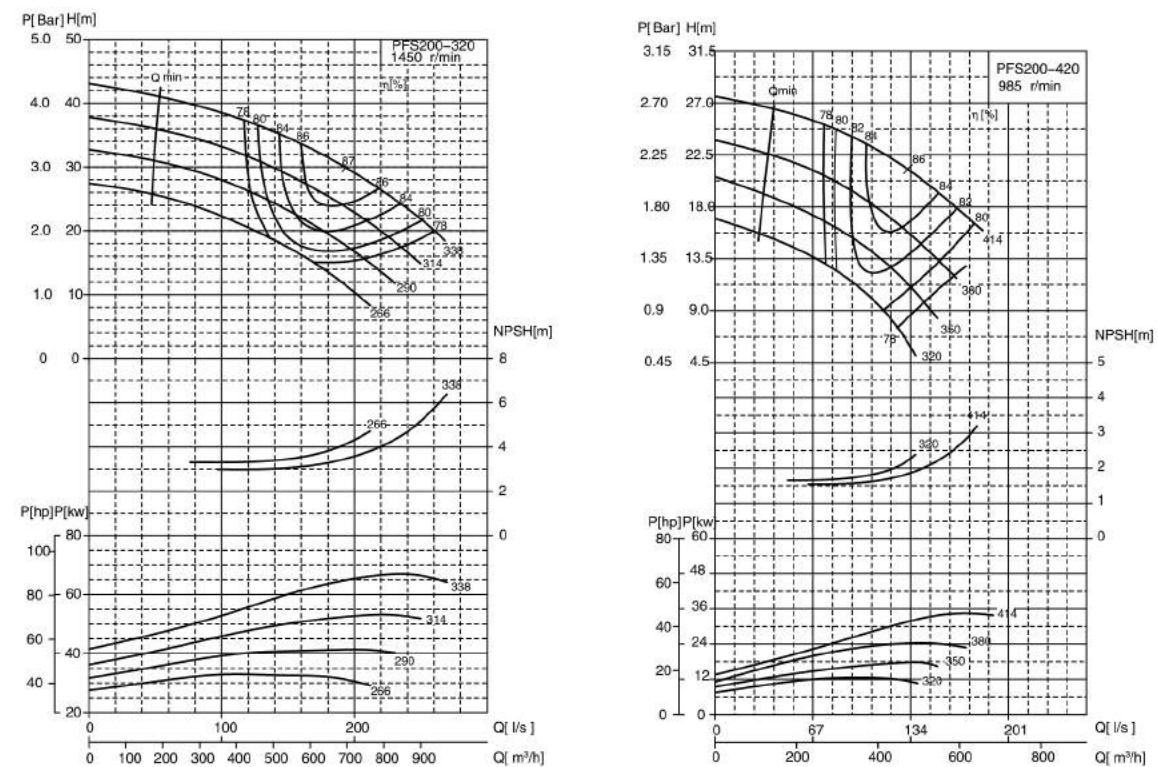
PFS1100

PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

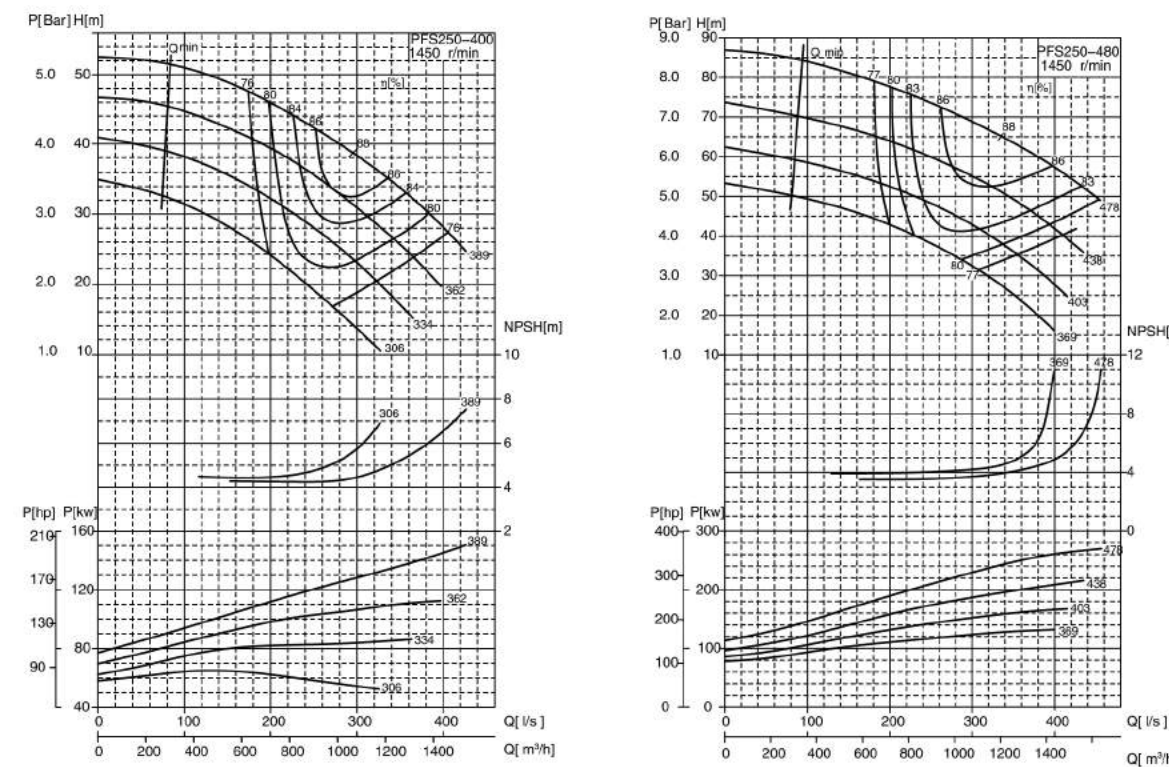
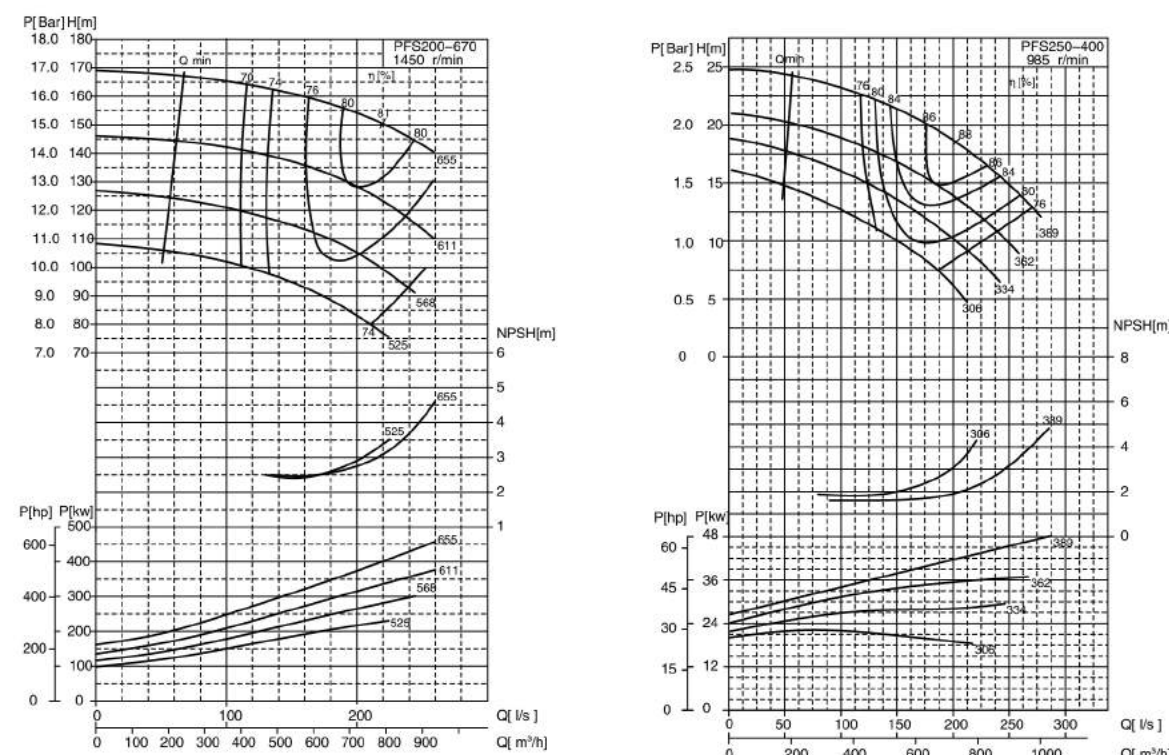
## VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

## VII、PERFORMANCE CURVE CHART 性能曲线图

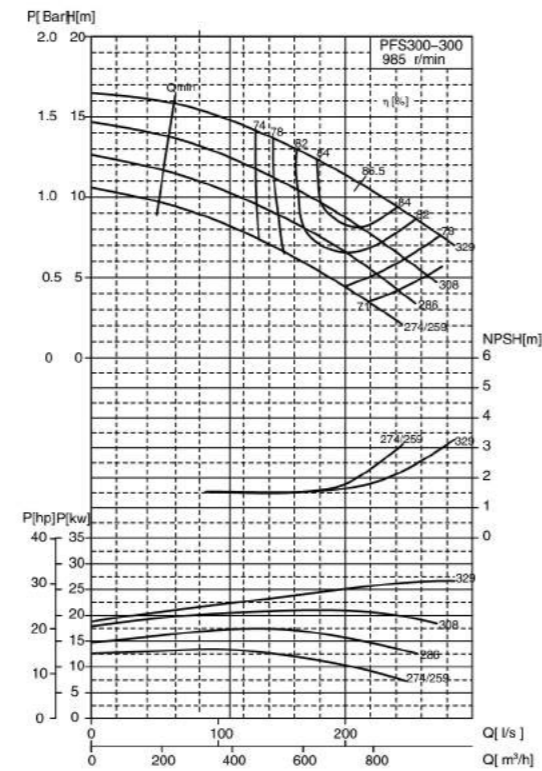
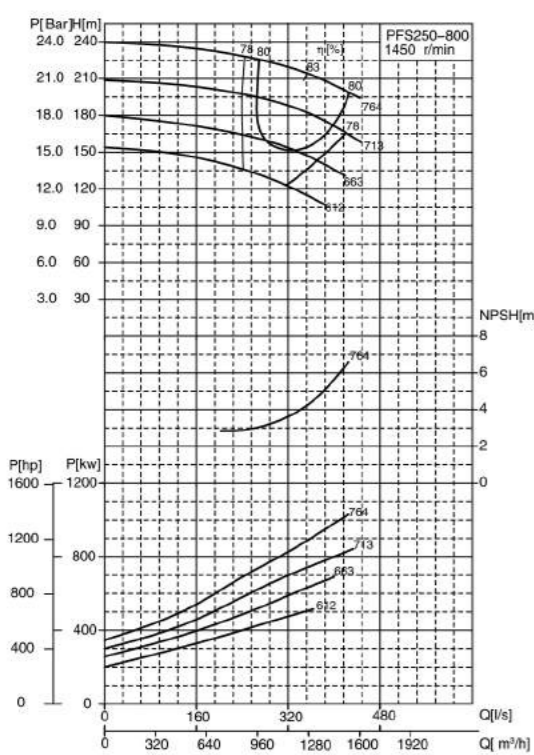
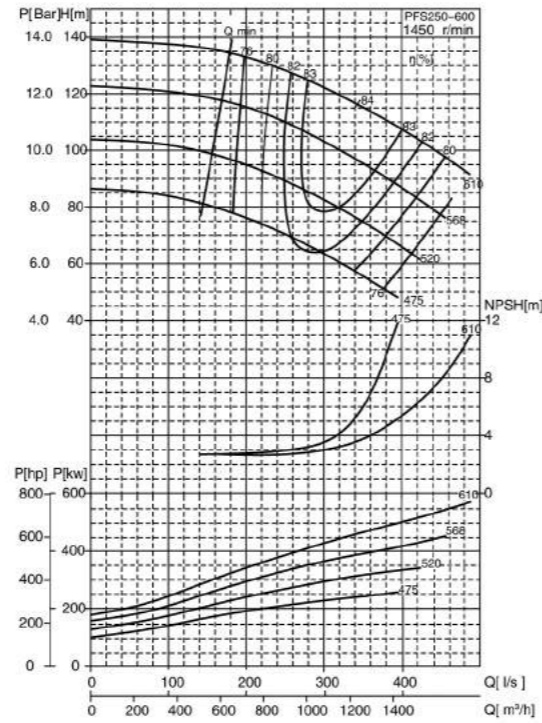
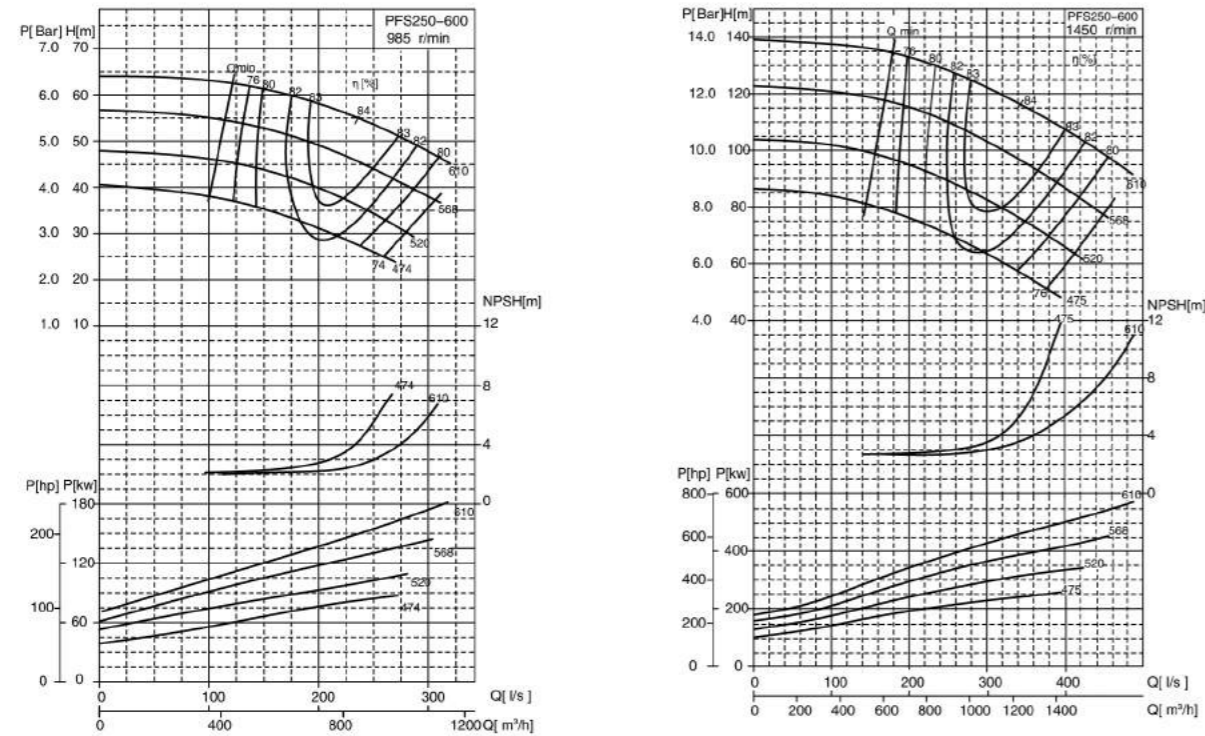


- PFS
- PFS80
- PFS100
- PFS125
- PFS150
- PFS200
- PFS250
- PFS300
- PFS350
- PFS400
- PFS450
- PFS500
- PFS600
- PFS700
- PFS800
- PFS900
- PFS1000
- PFS1100
- PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

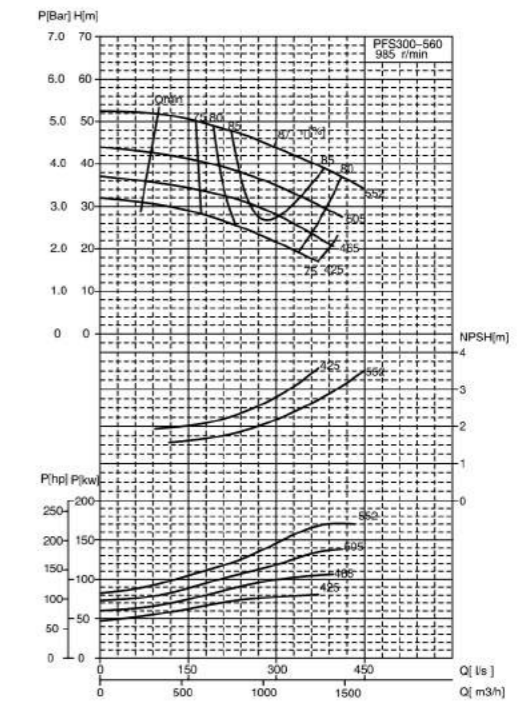
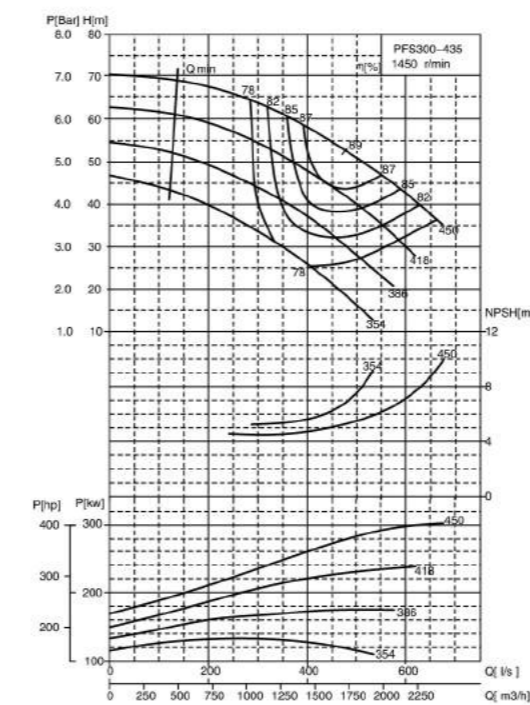
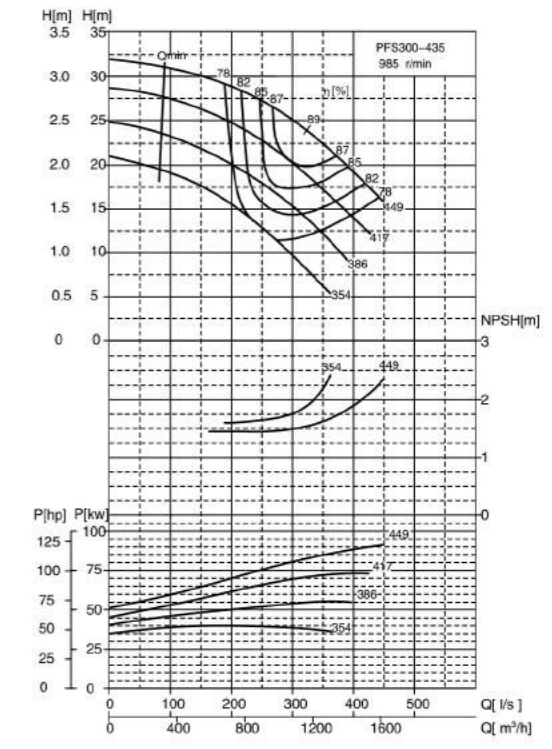
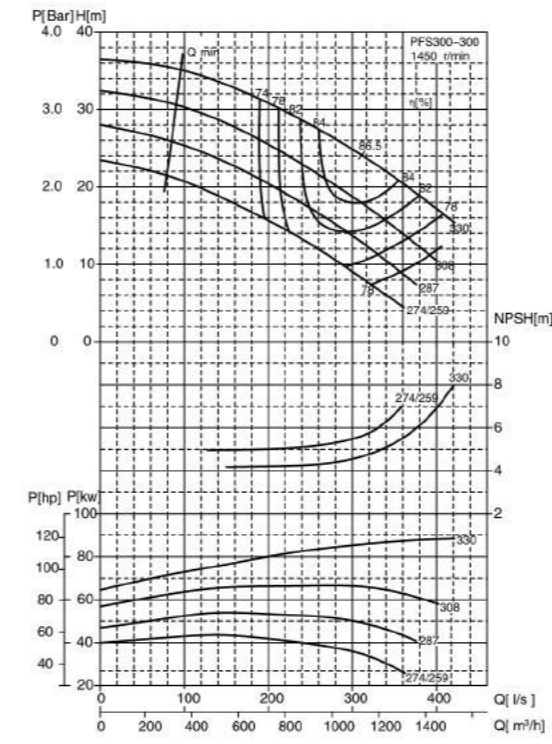
### VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VII、PERFORMANCE CURVE CHART 性能曲线图



- PFS
- PFS80
- PFS100
- PFS125
- PFS150
- PFS200
- PFS250
- PFS300
- PFS350
- PFS400
- PFS450
- PFS500
- PFS600
- PFS700
- PFS800
- PFS900
- PFS1000
- PFS1100
- PFS1200

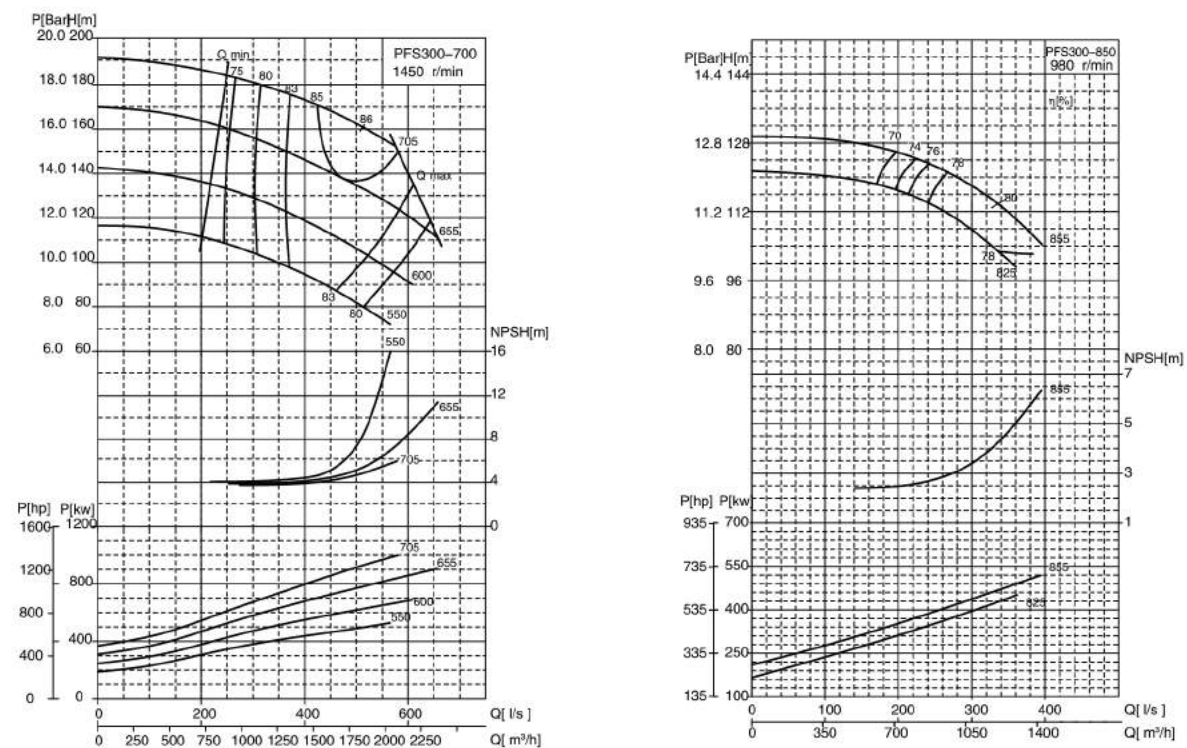
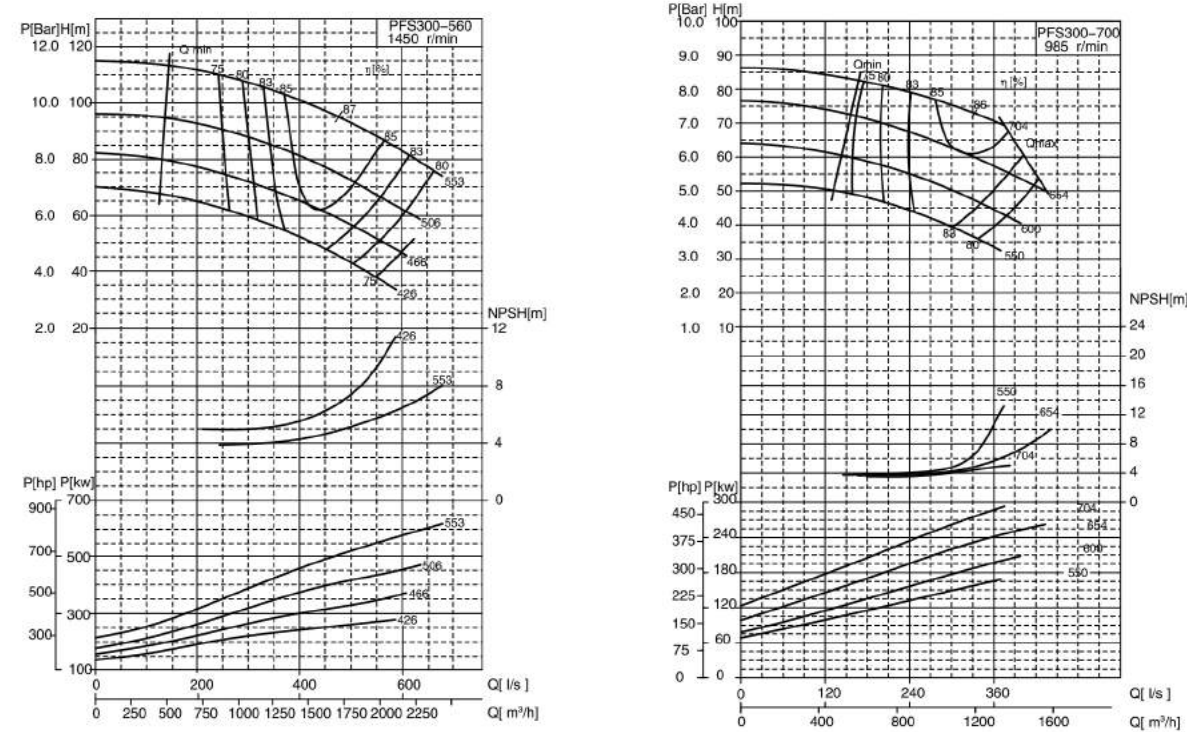
# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

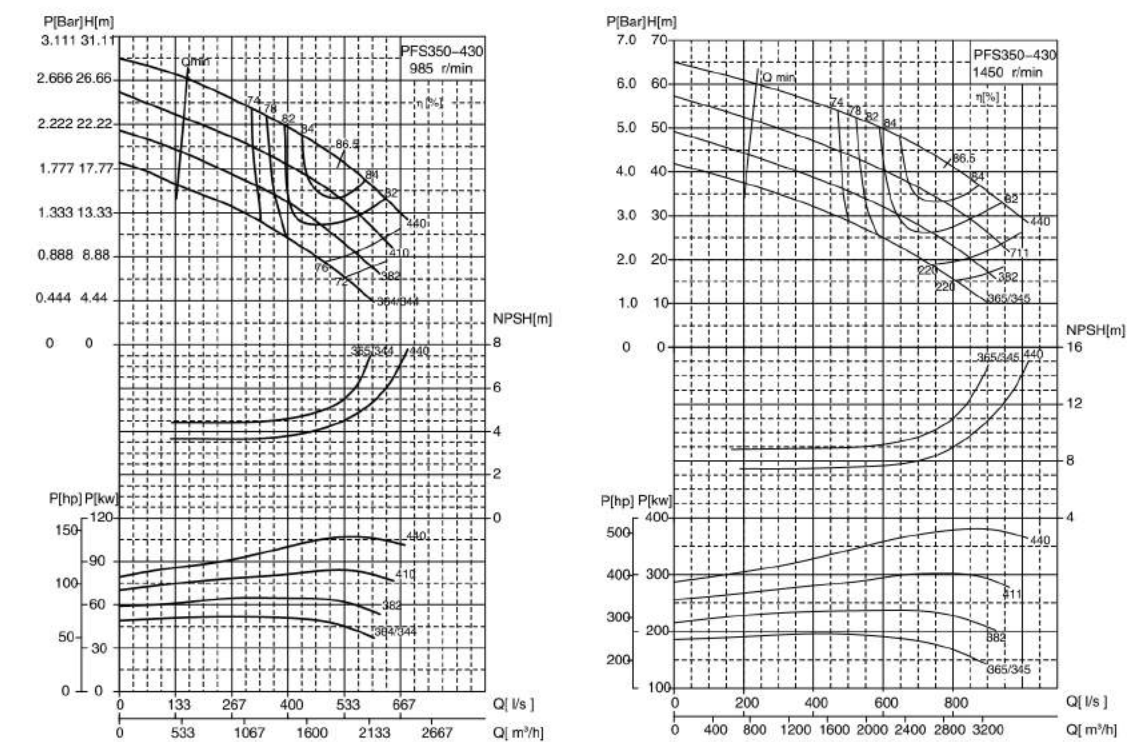
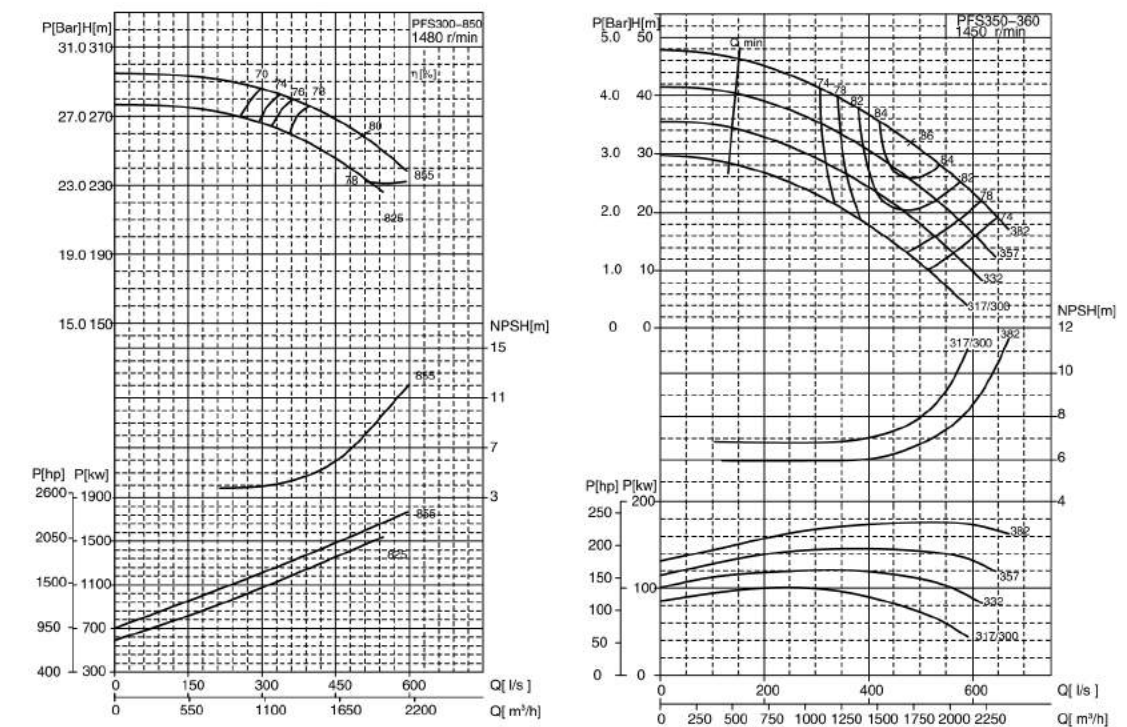
# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VII、PERFORMANCE CURVE CHART 性能曲线图



### VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

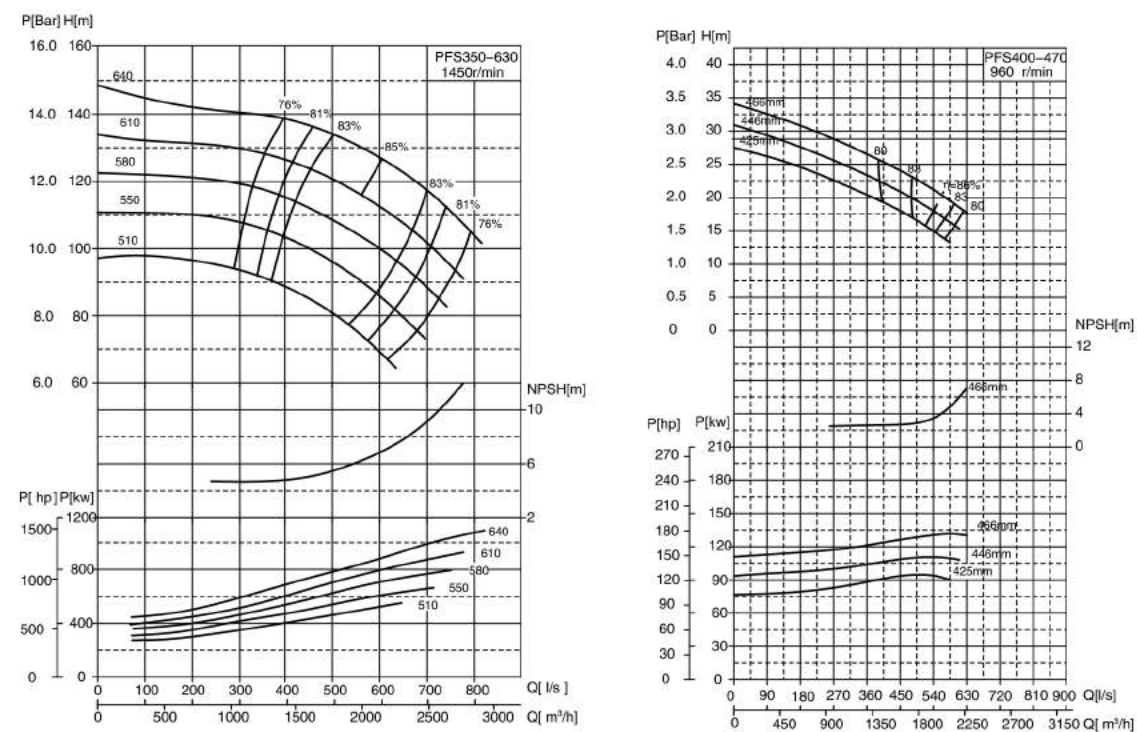
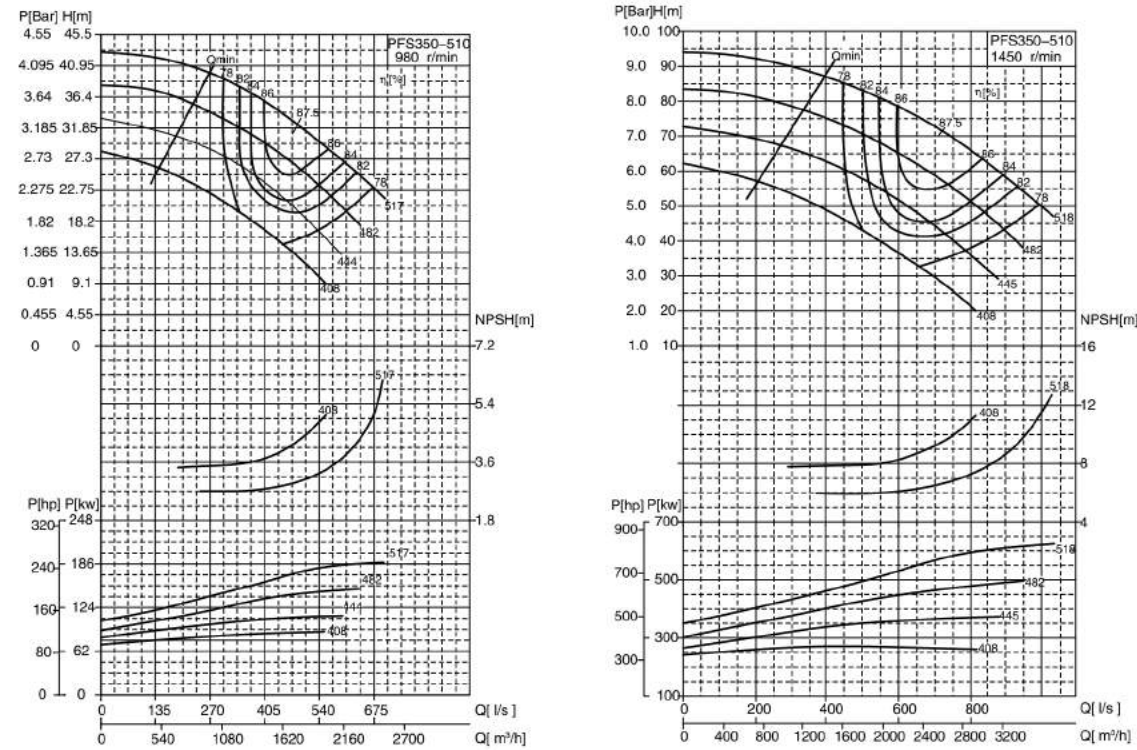
PFS1100

PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

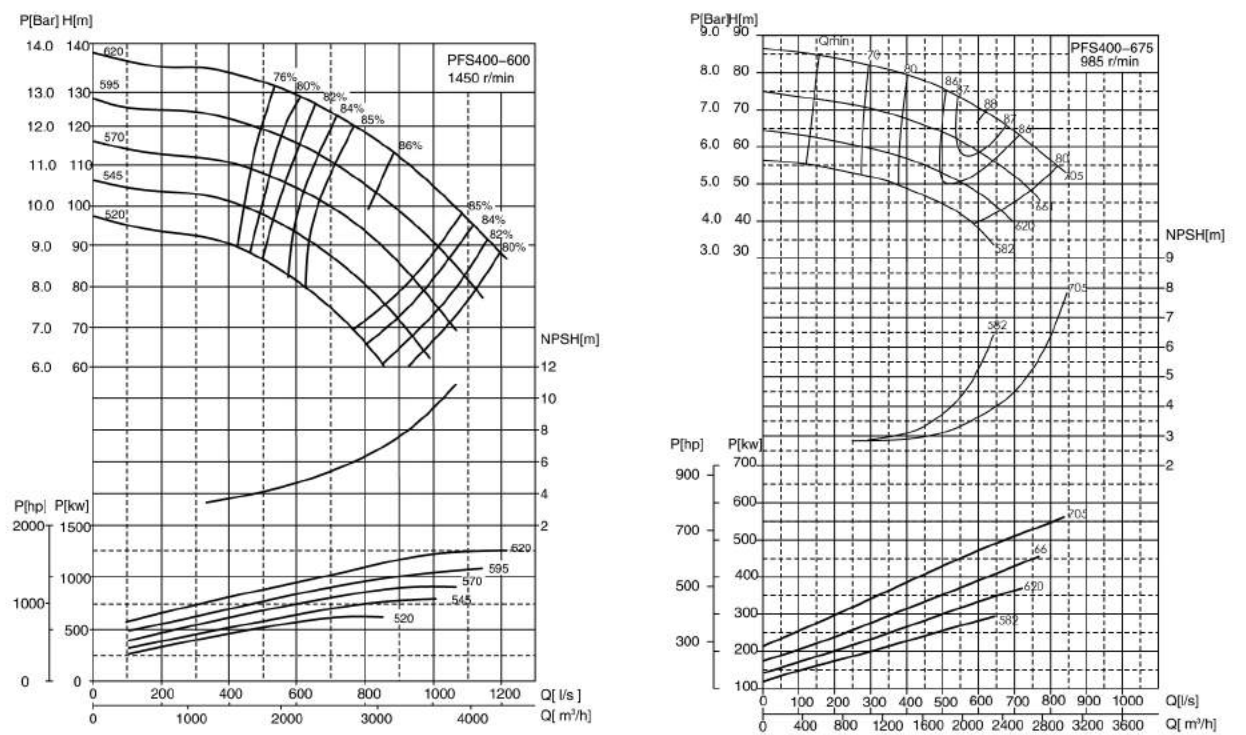
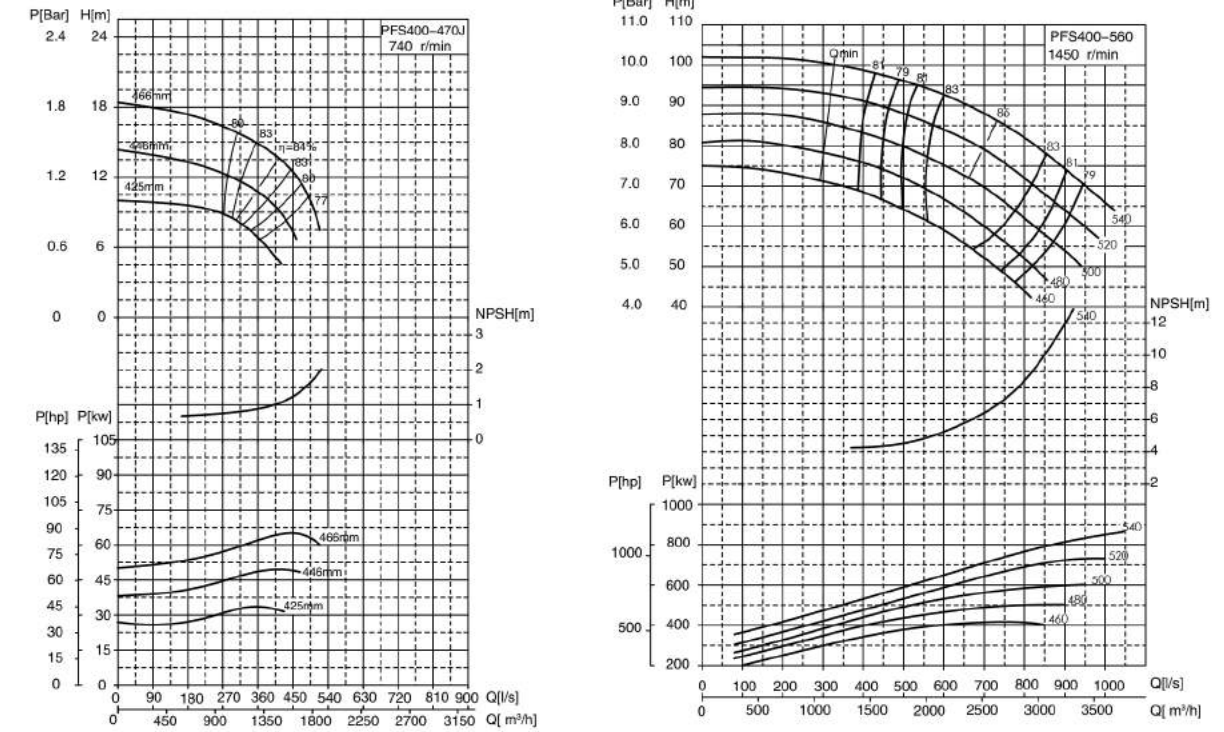
## VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

## VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

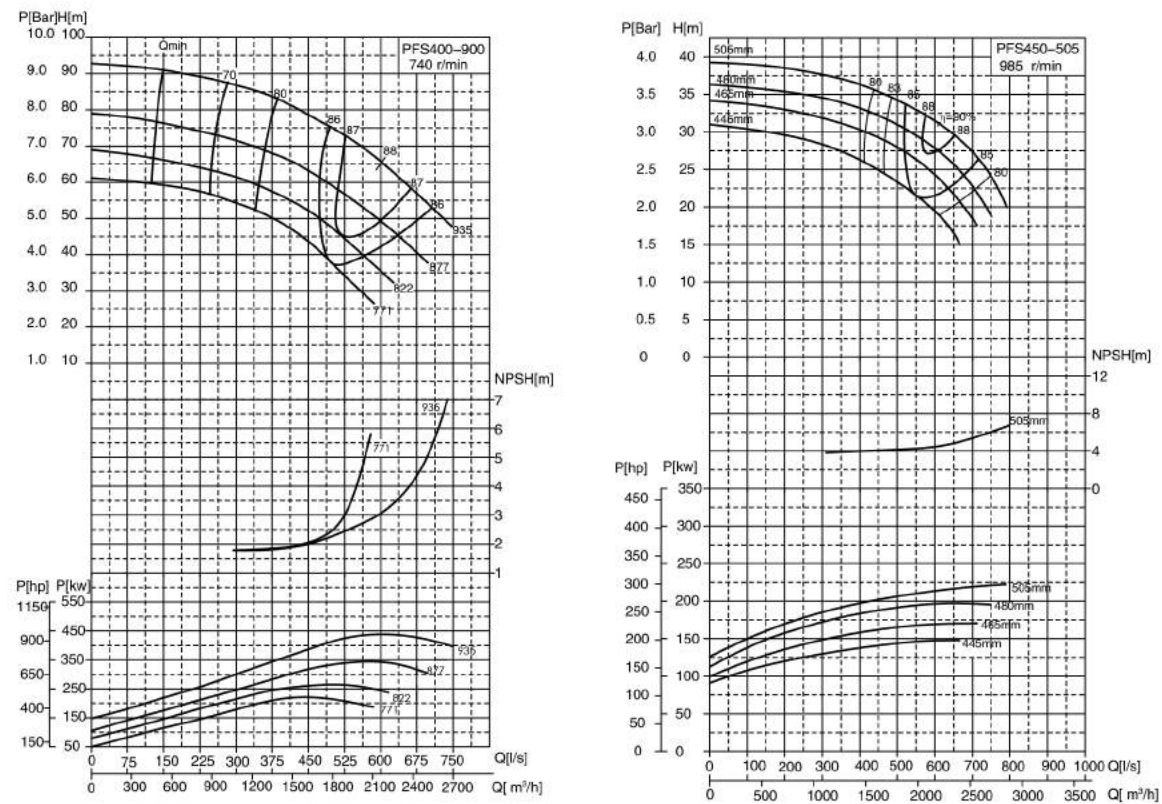
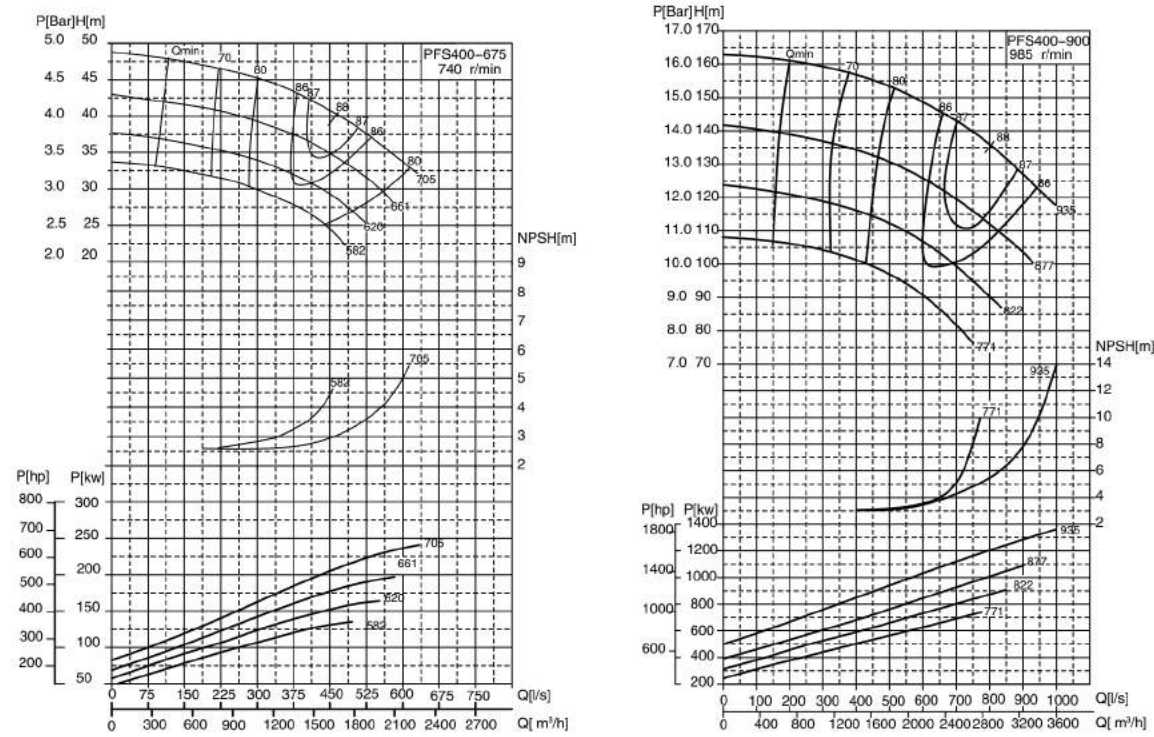
PFS1100

PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

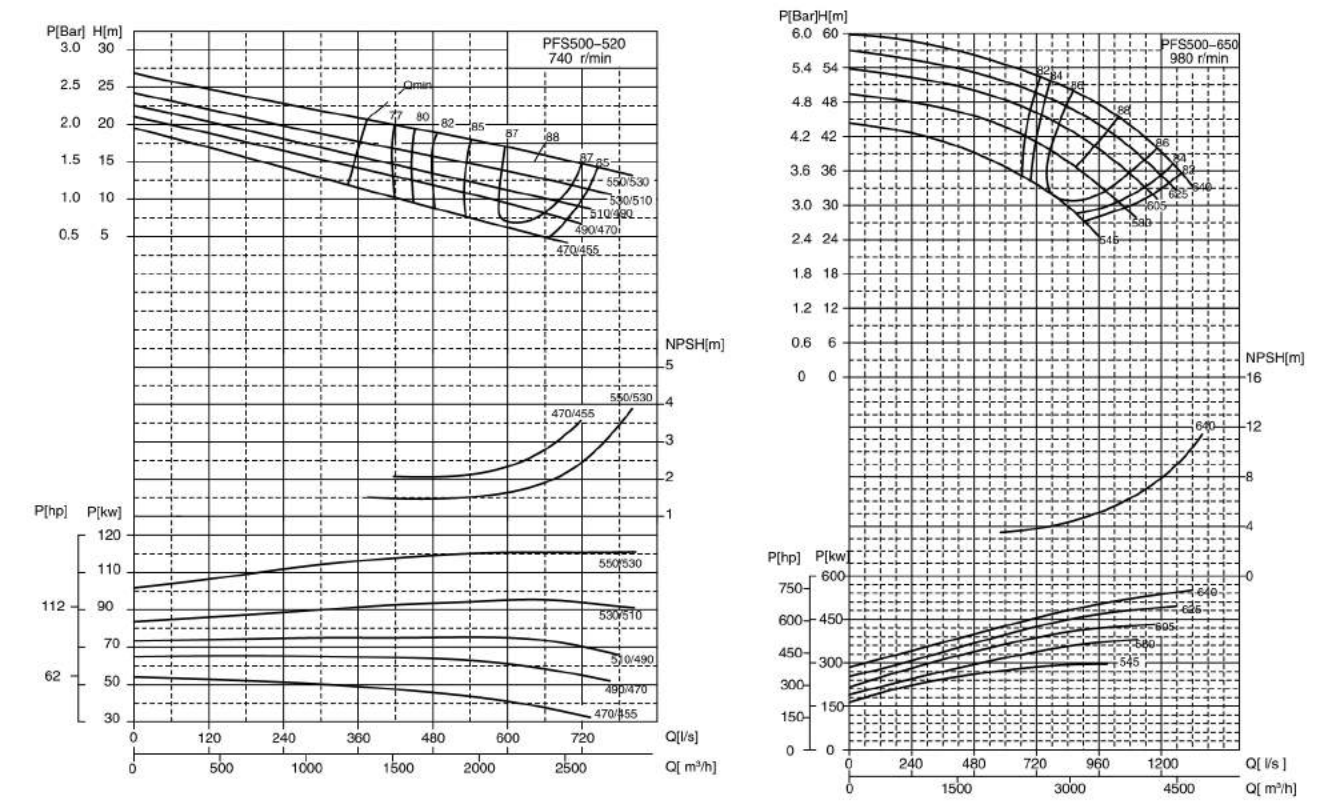
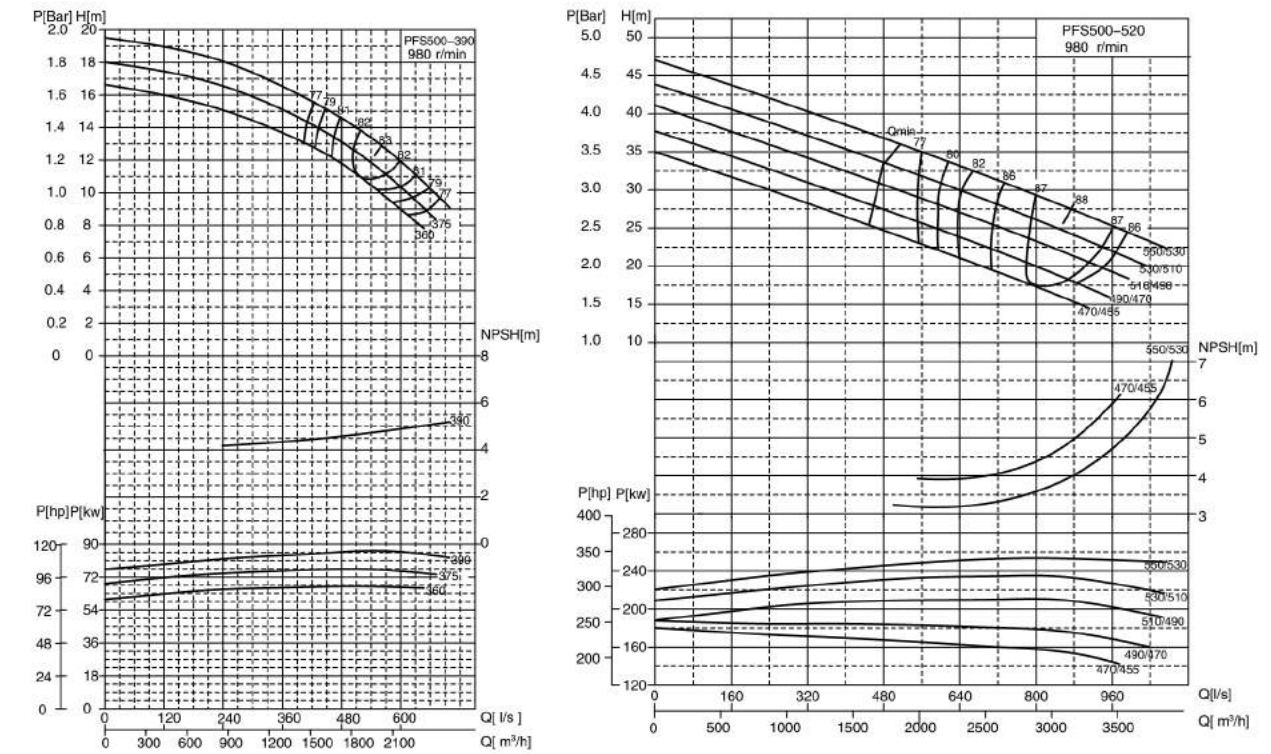
### VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

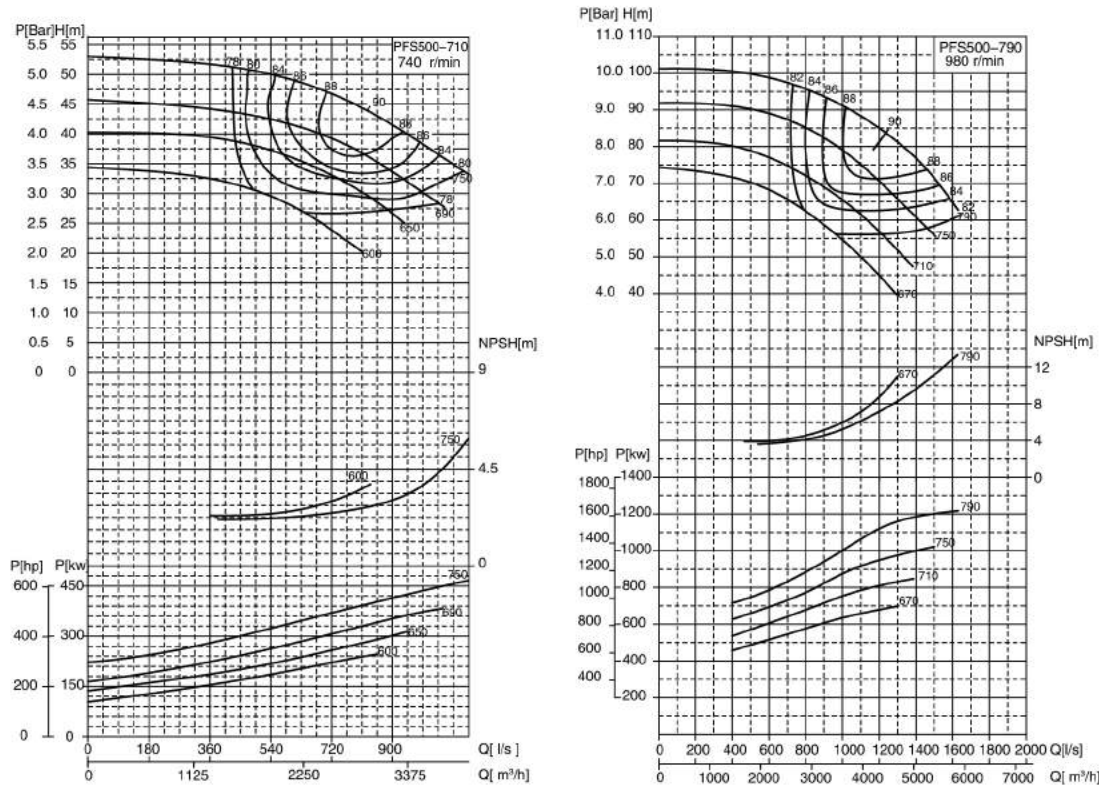
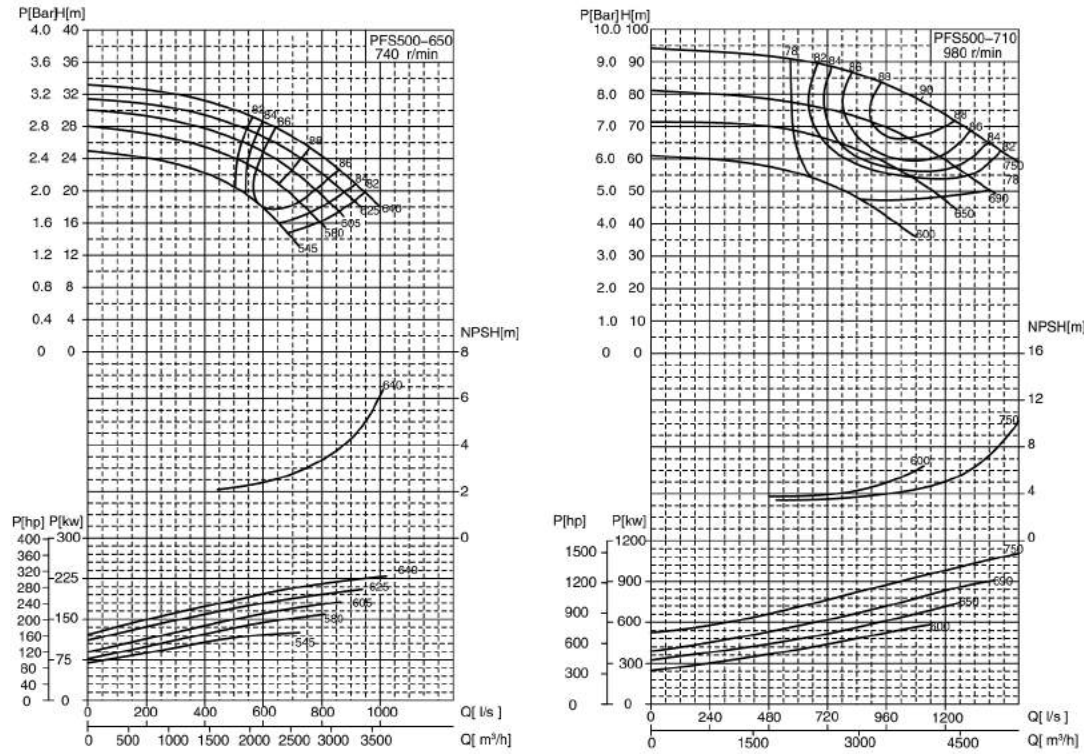
PFS1100

PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

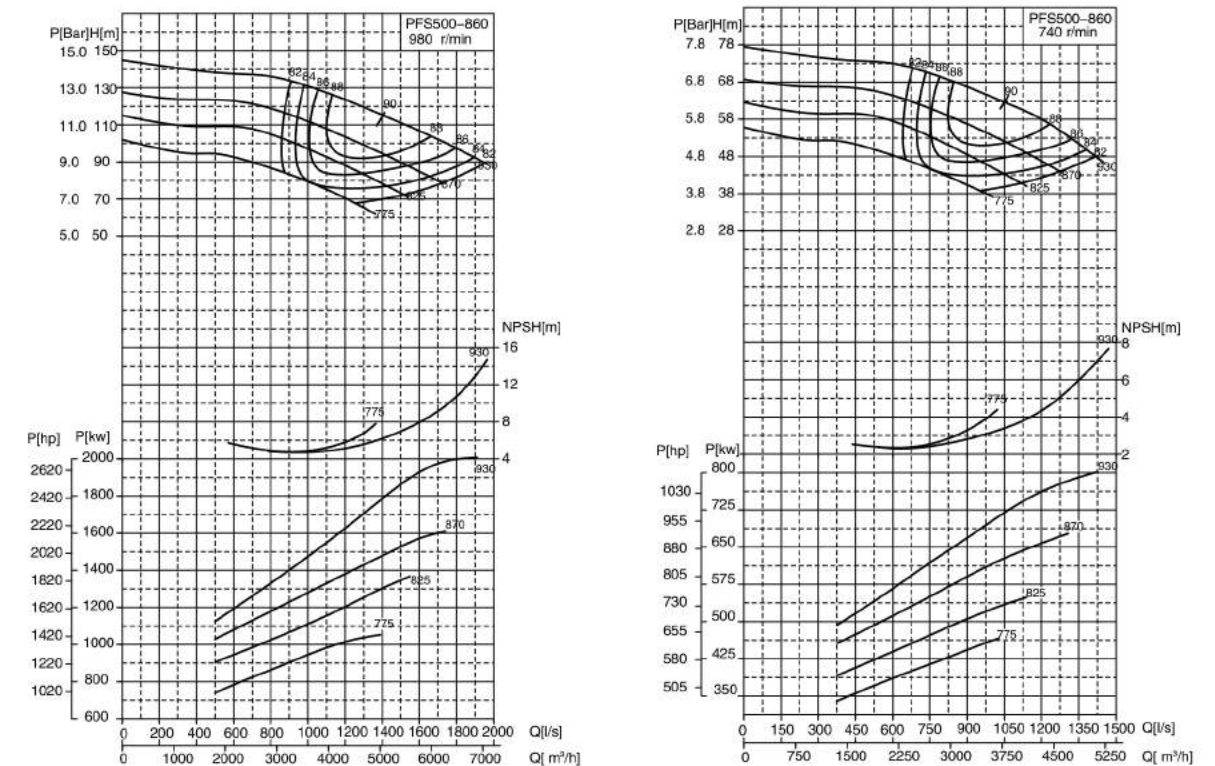
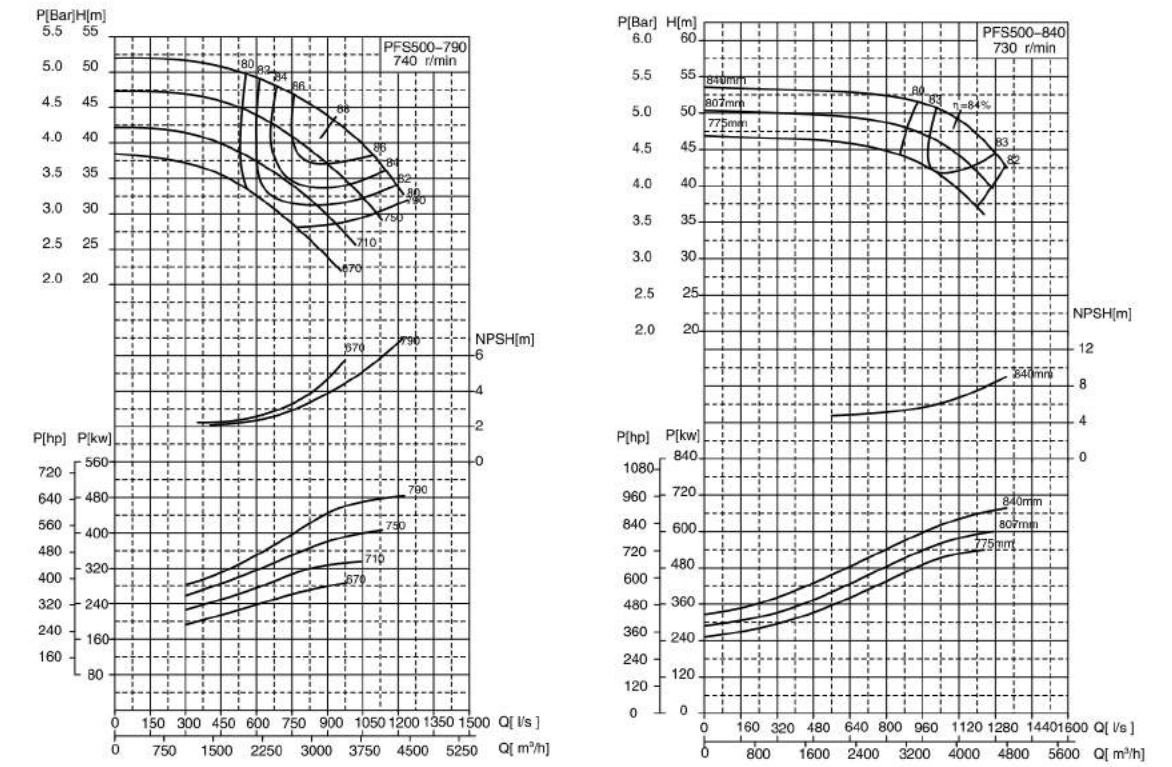
### VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

PFS1100

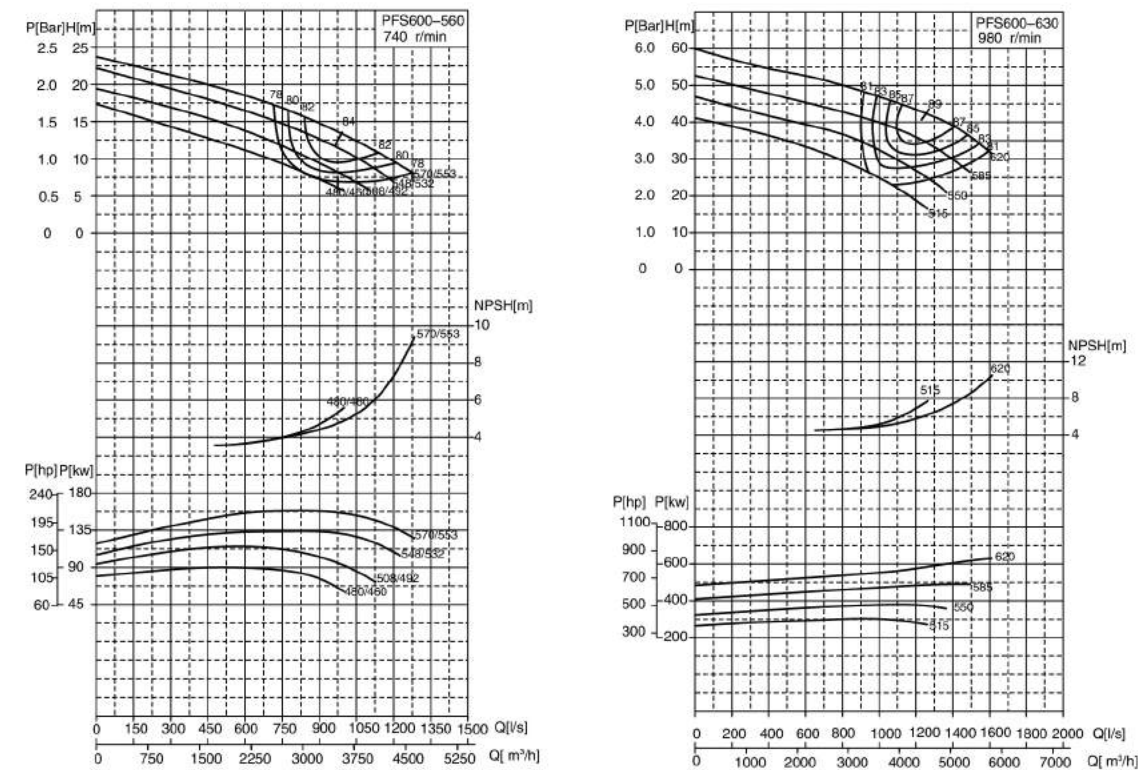
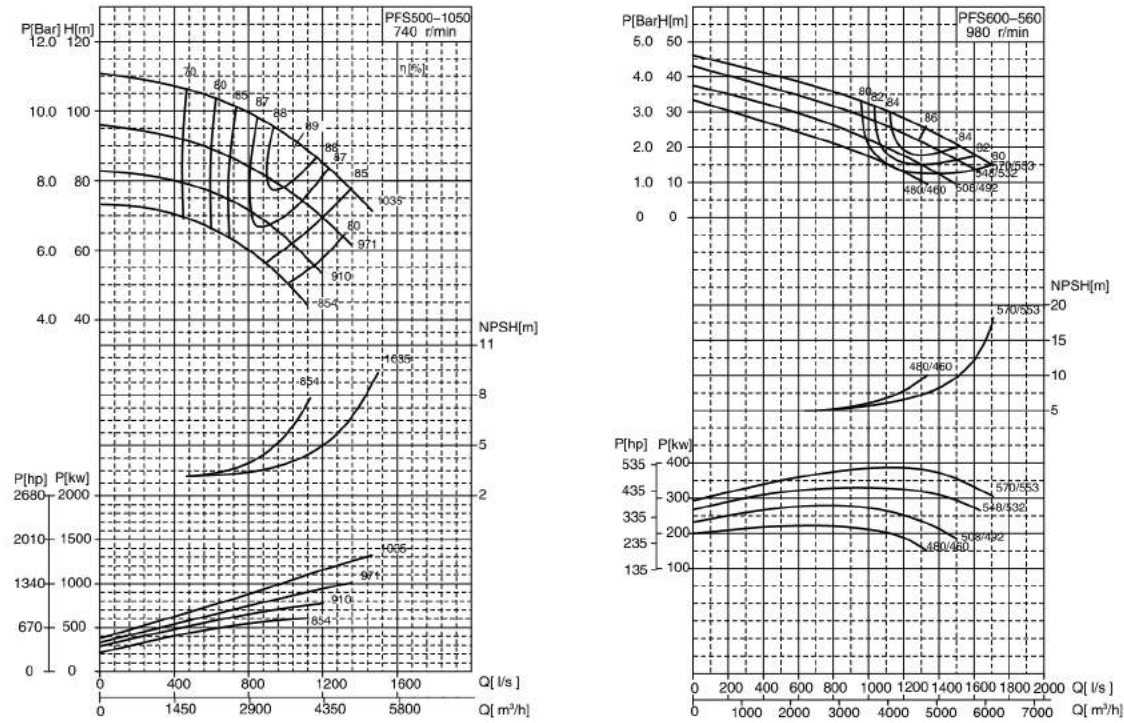
PFS1200



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

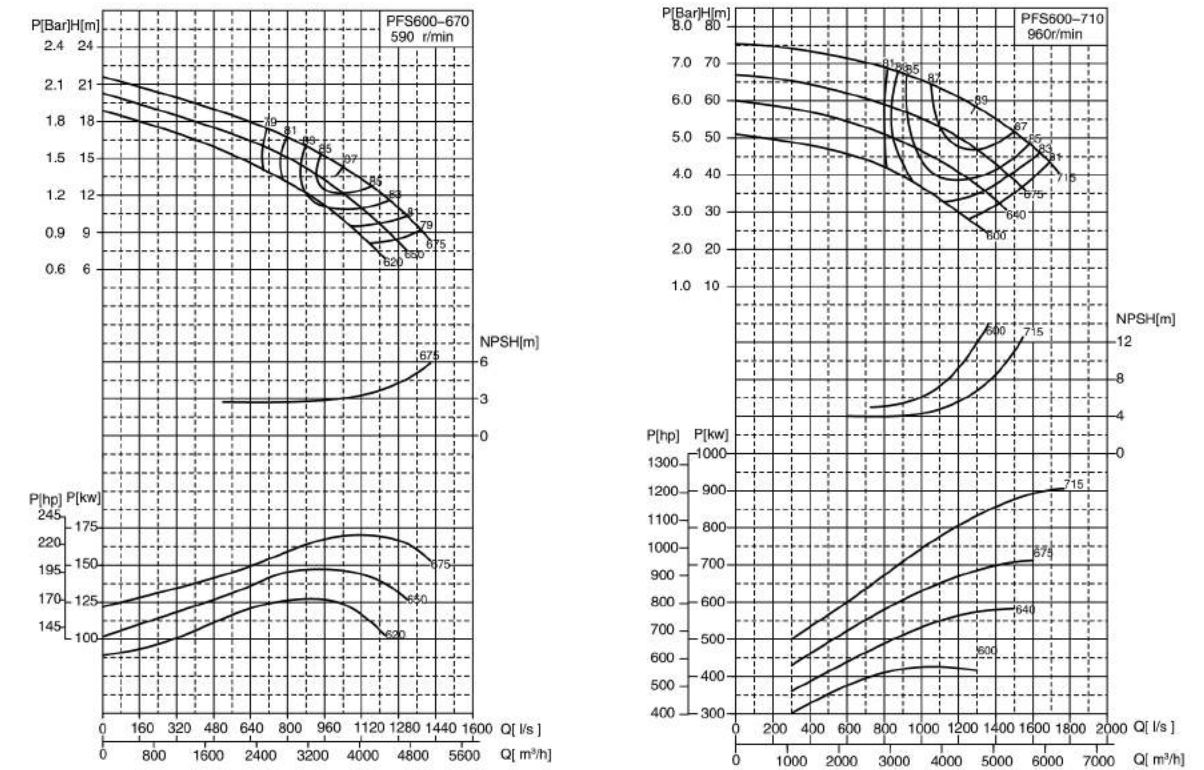
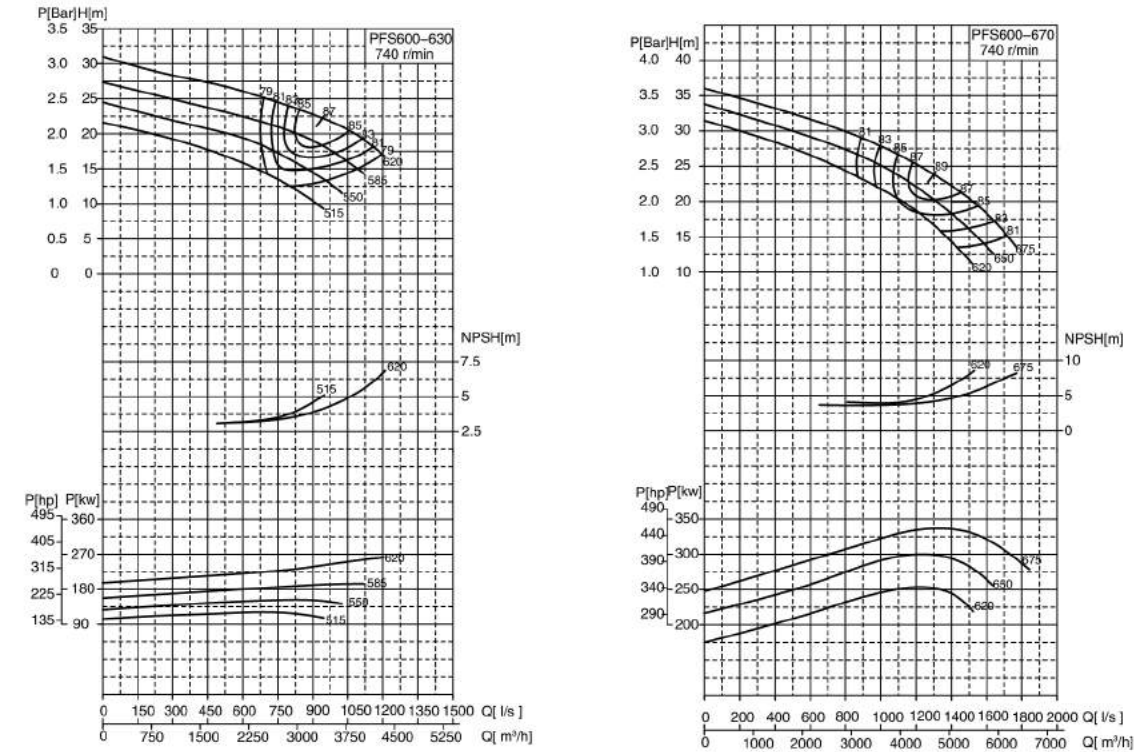
### VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

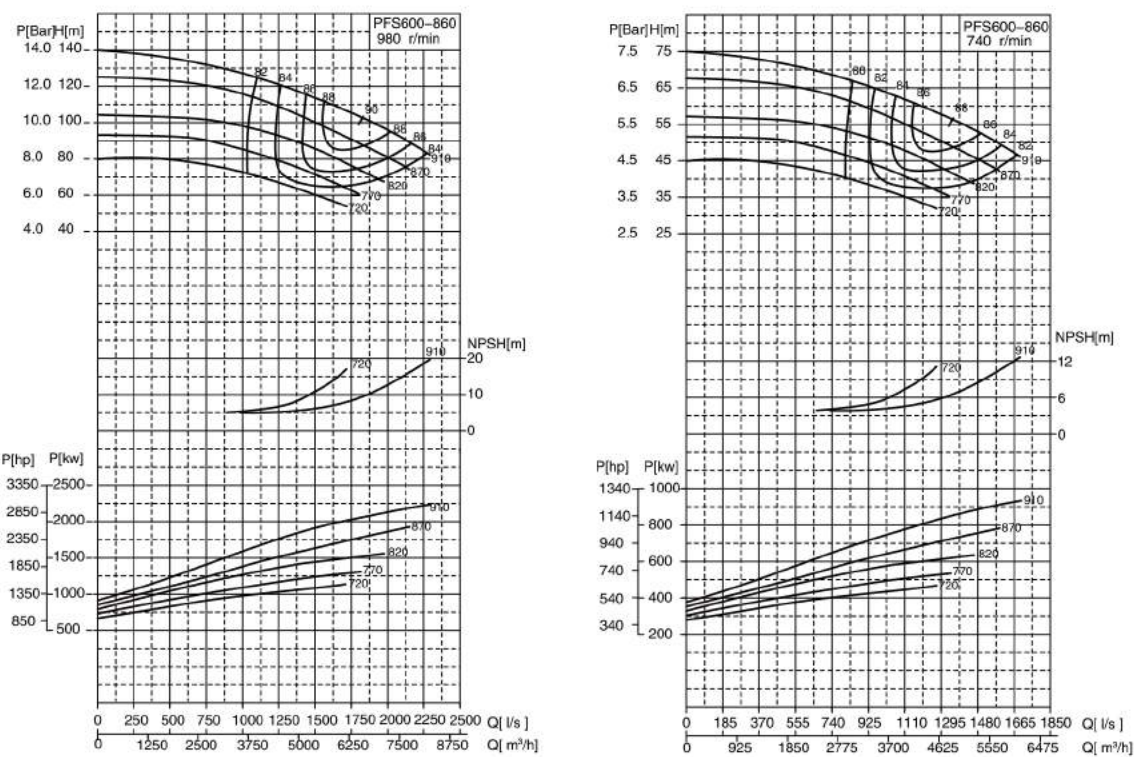
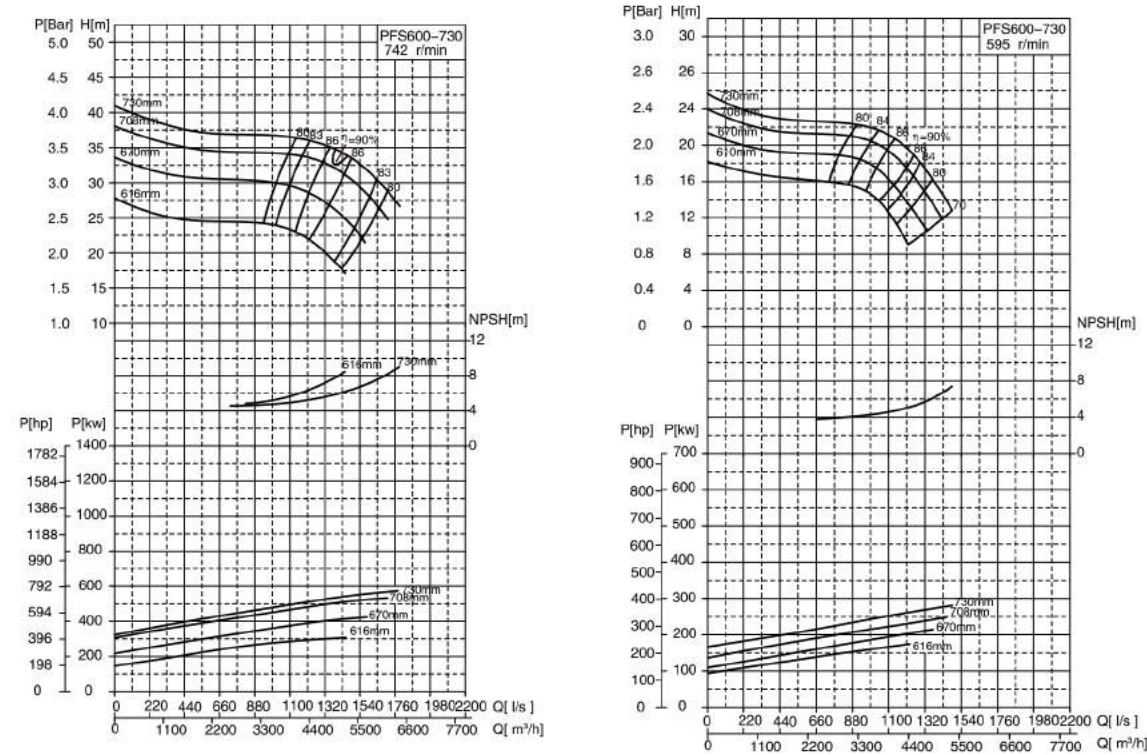
PFS1100

PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

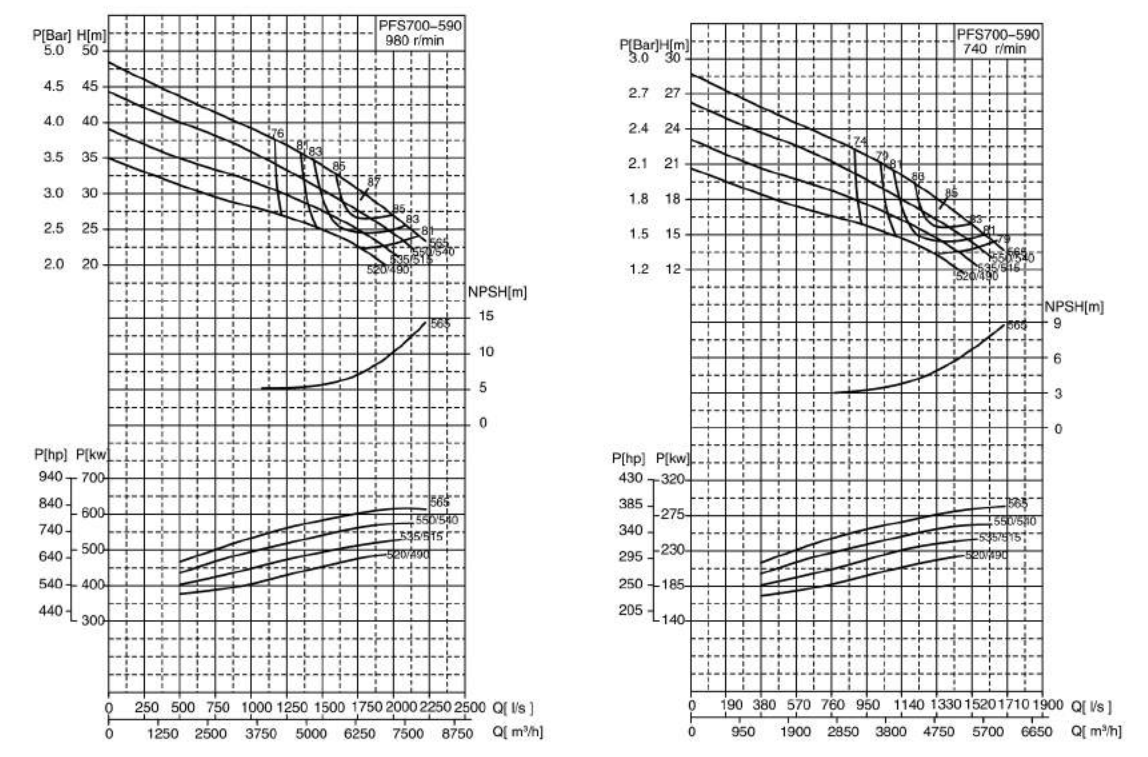
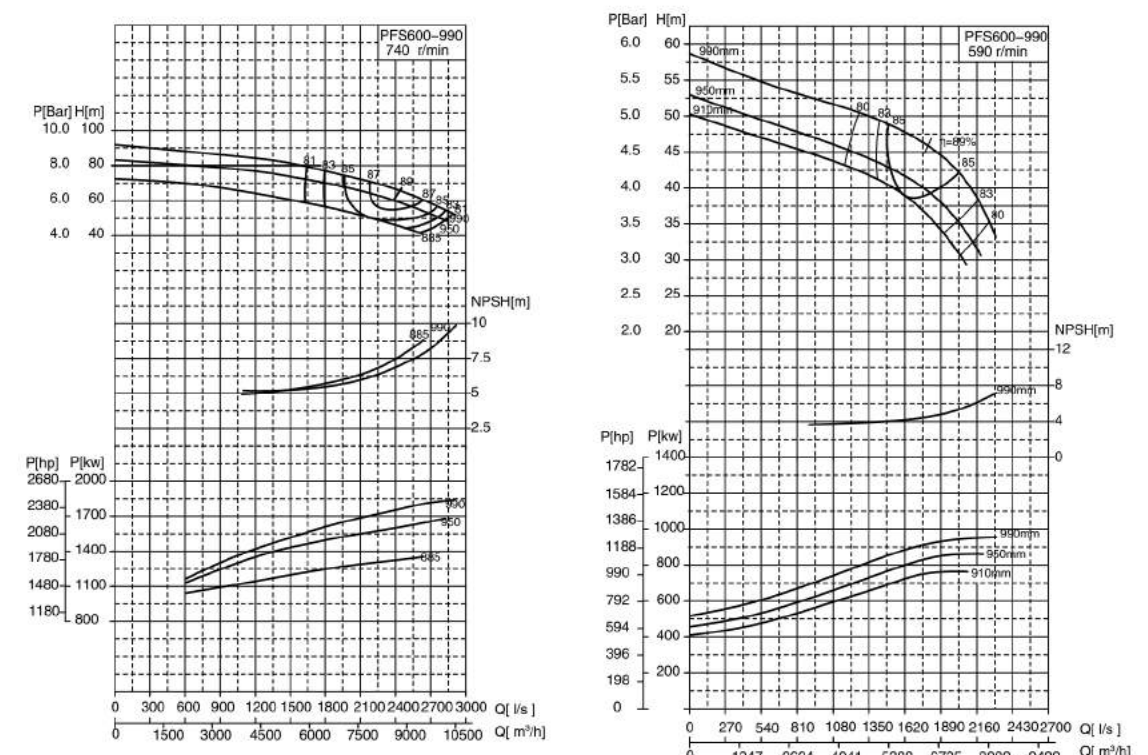
### VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

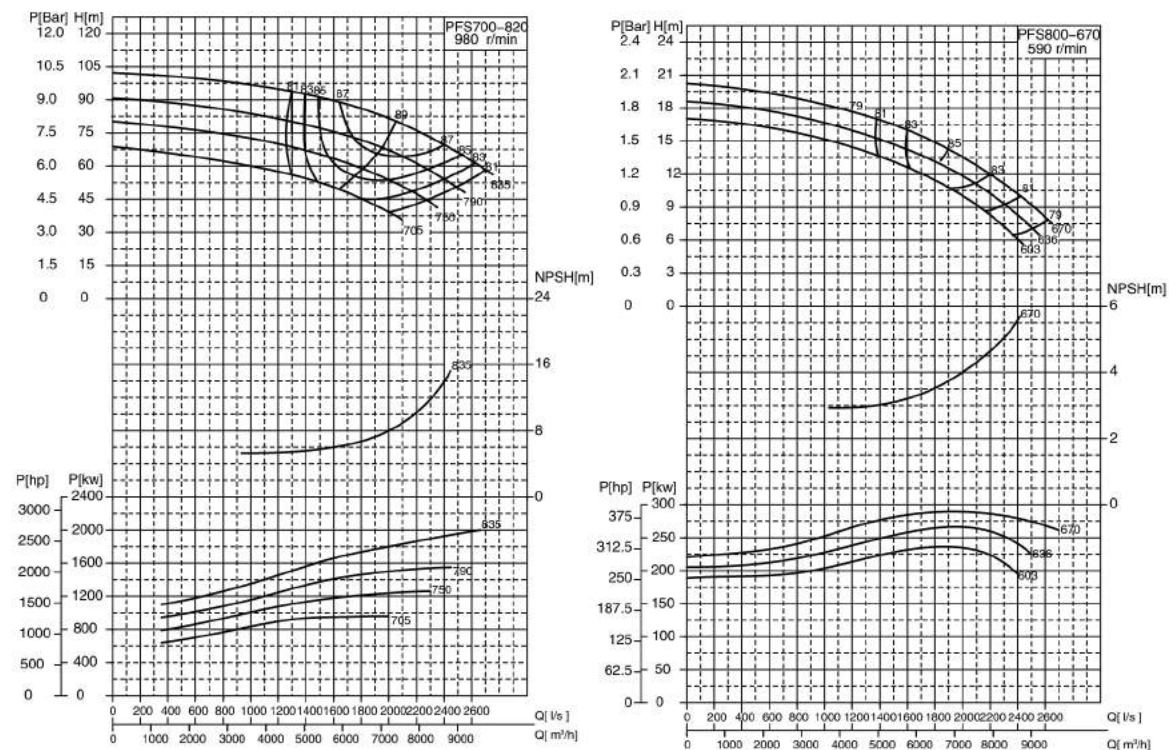
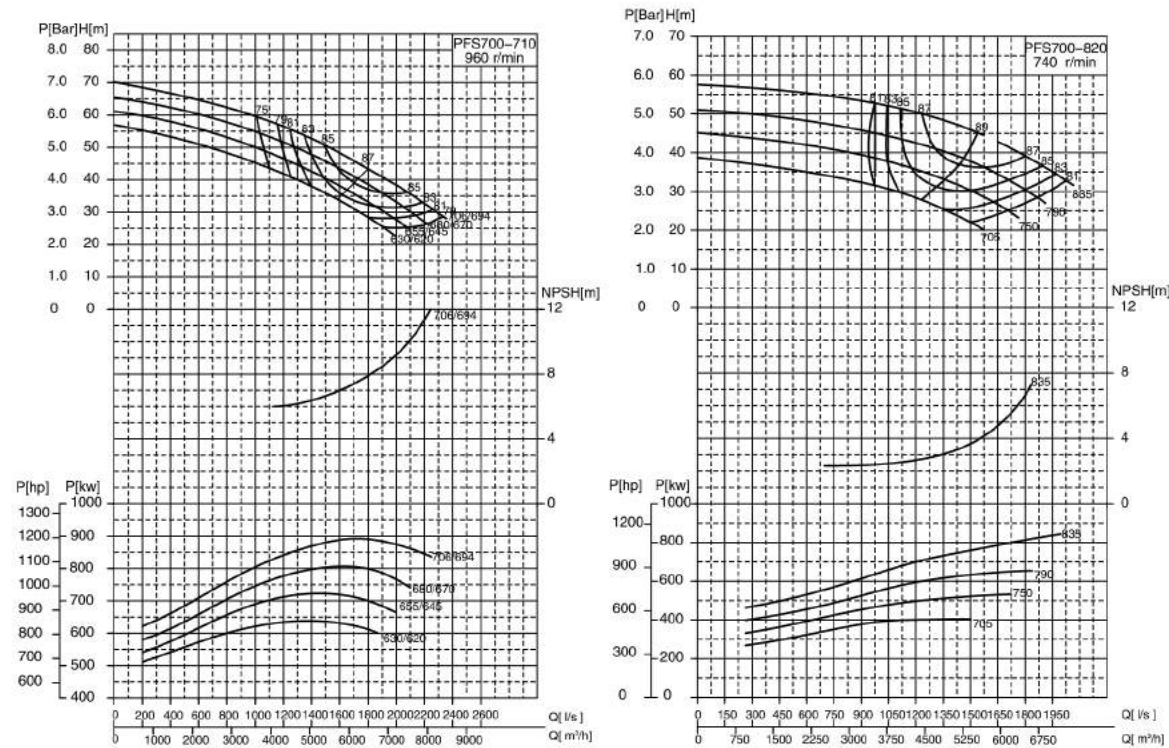
PFS1100

PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

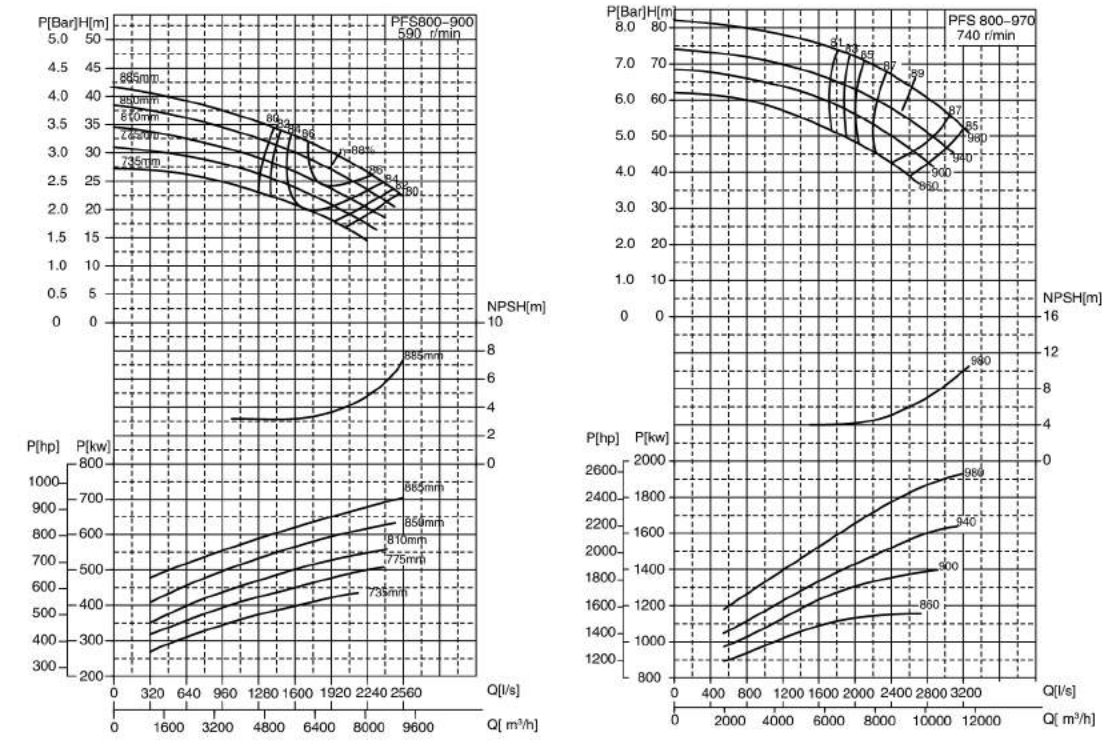
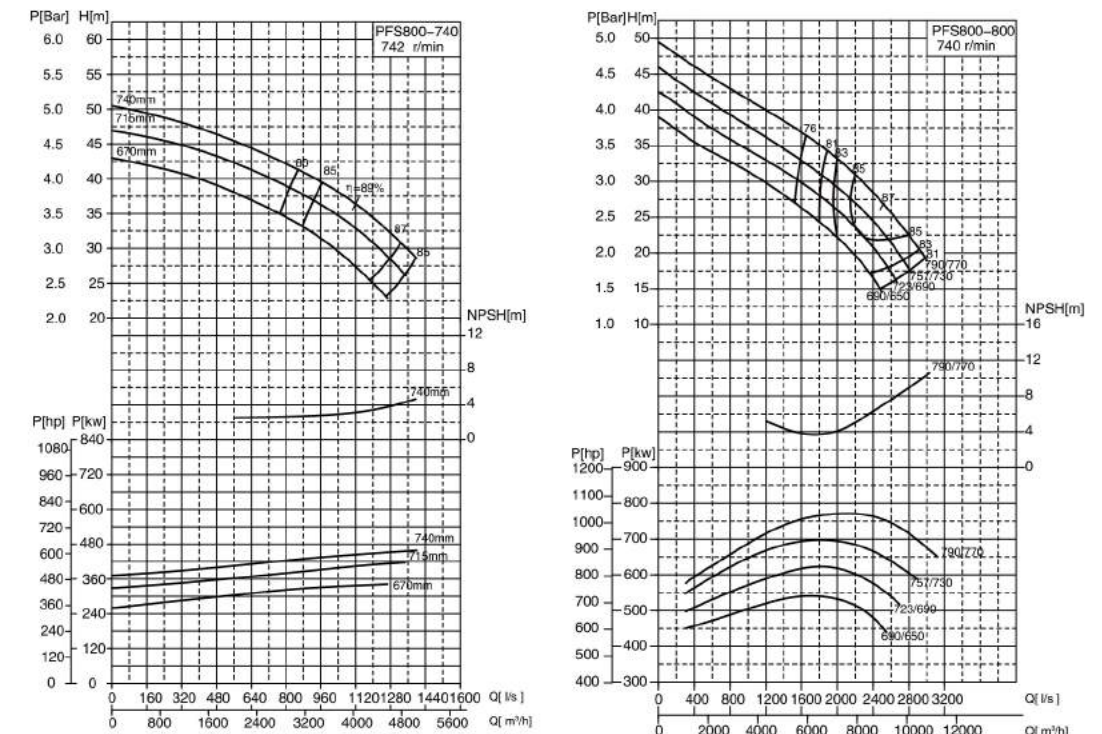
### VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

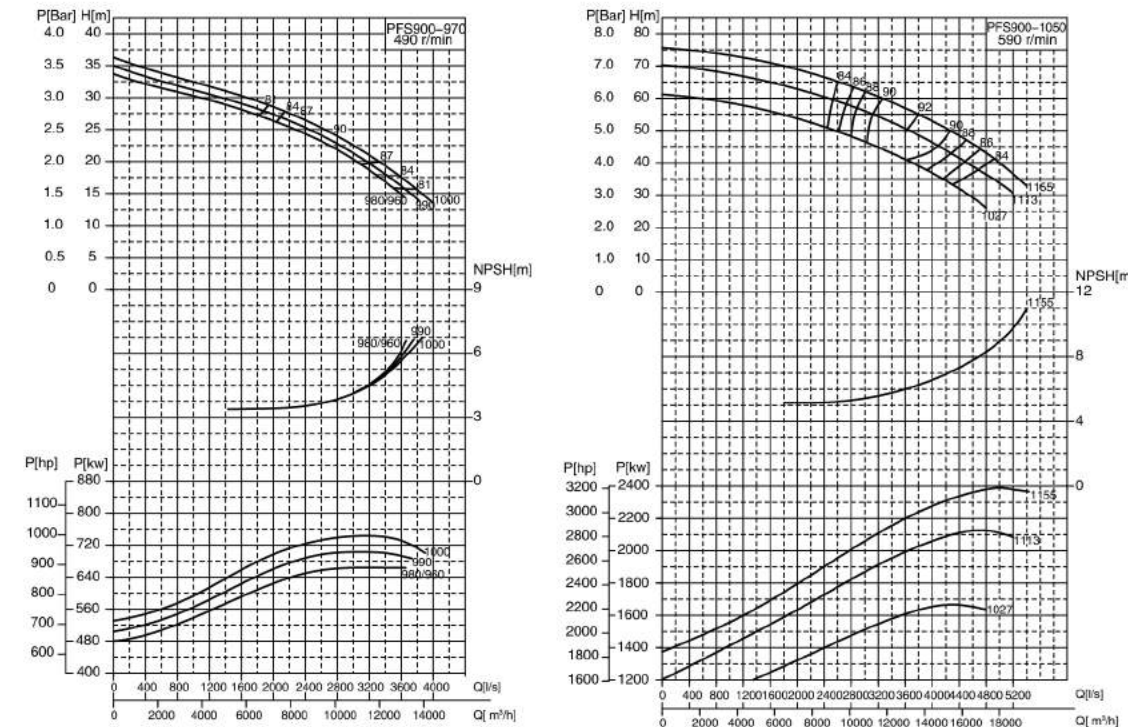
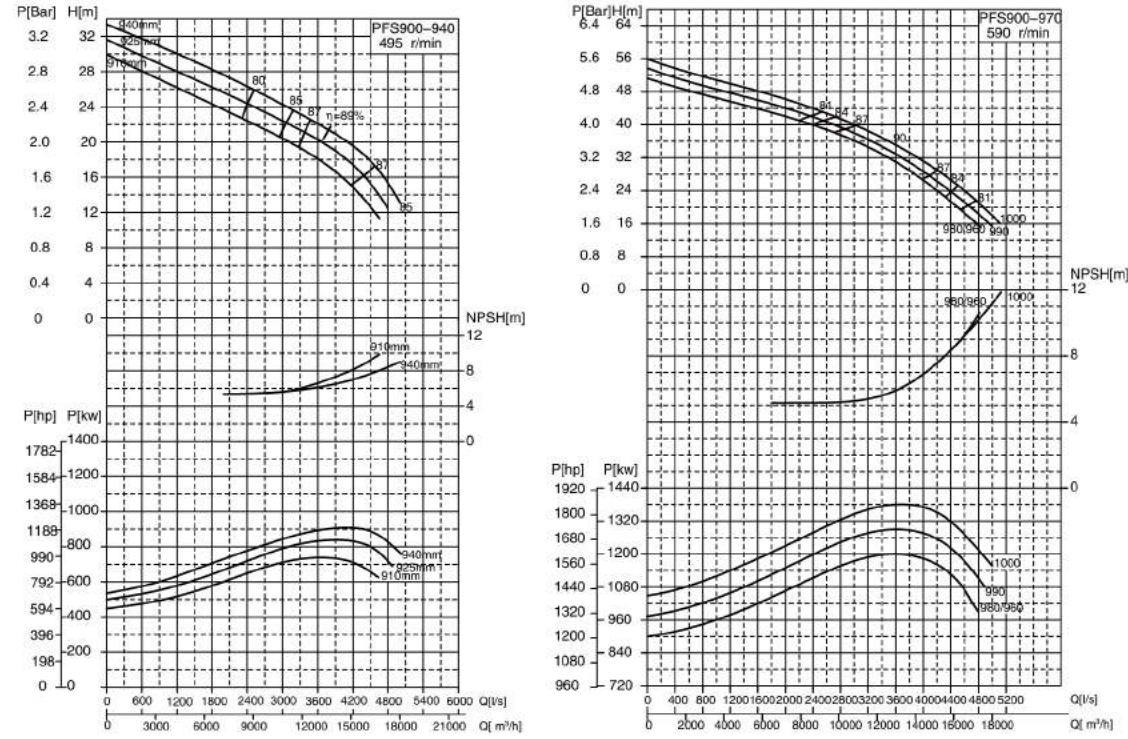
PFS1100

PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

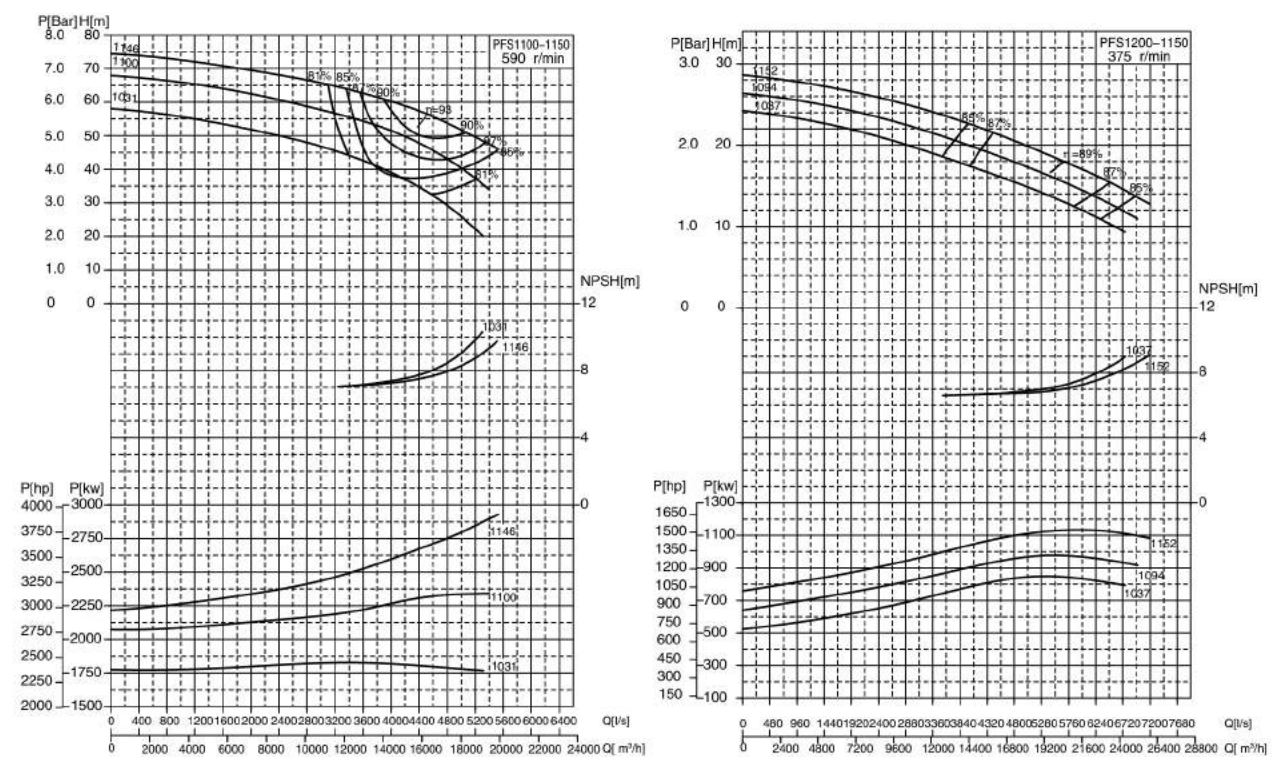
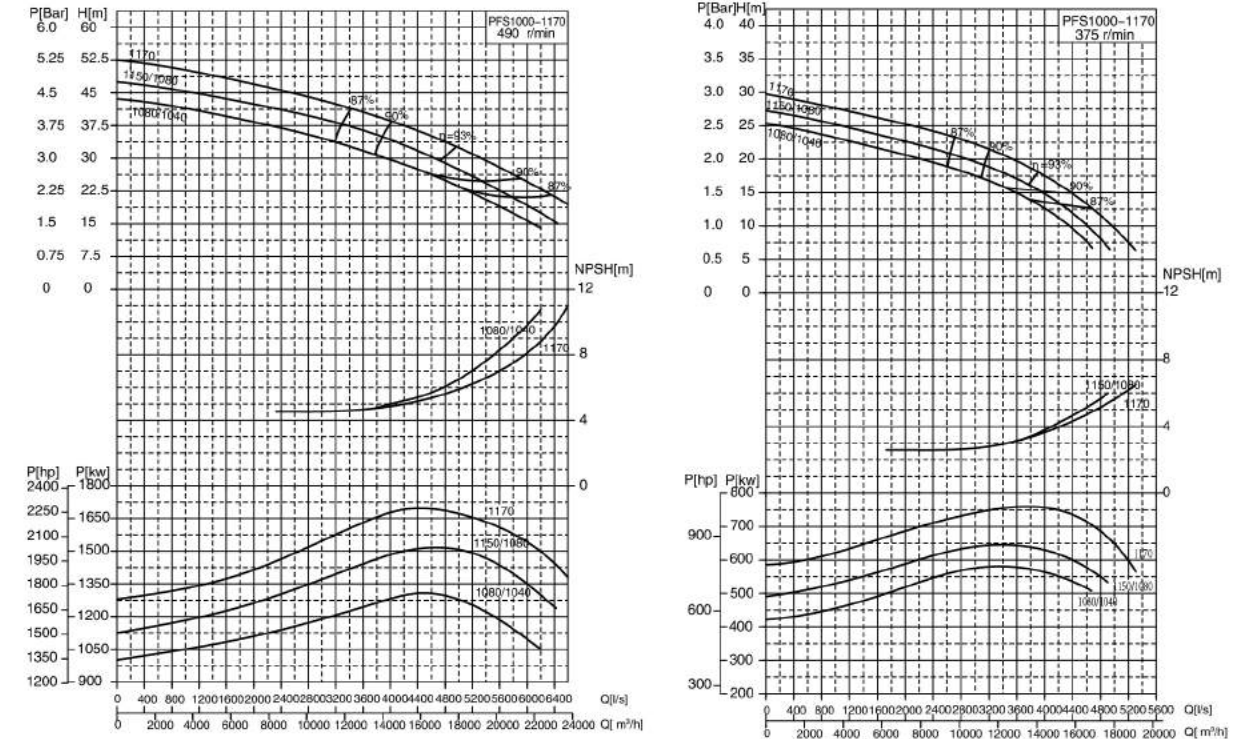
### VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

PFS500

PFS600

PFS700

PFS800

PFS900

PFS1000

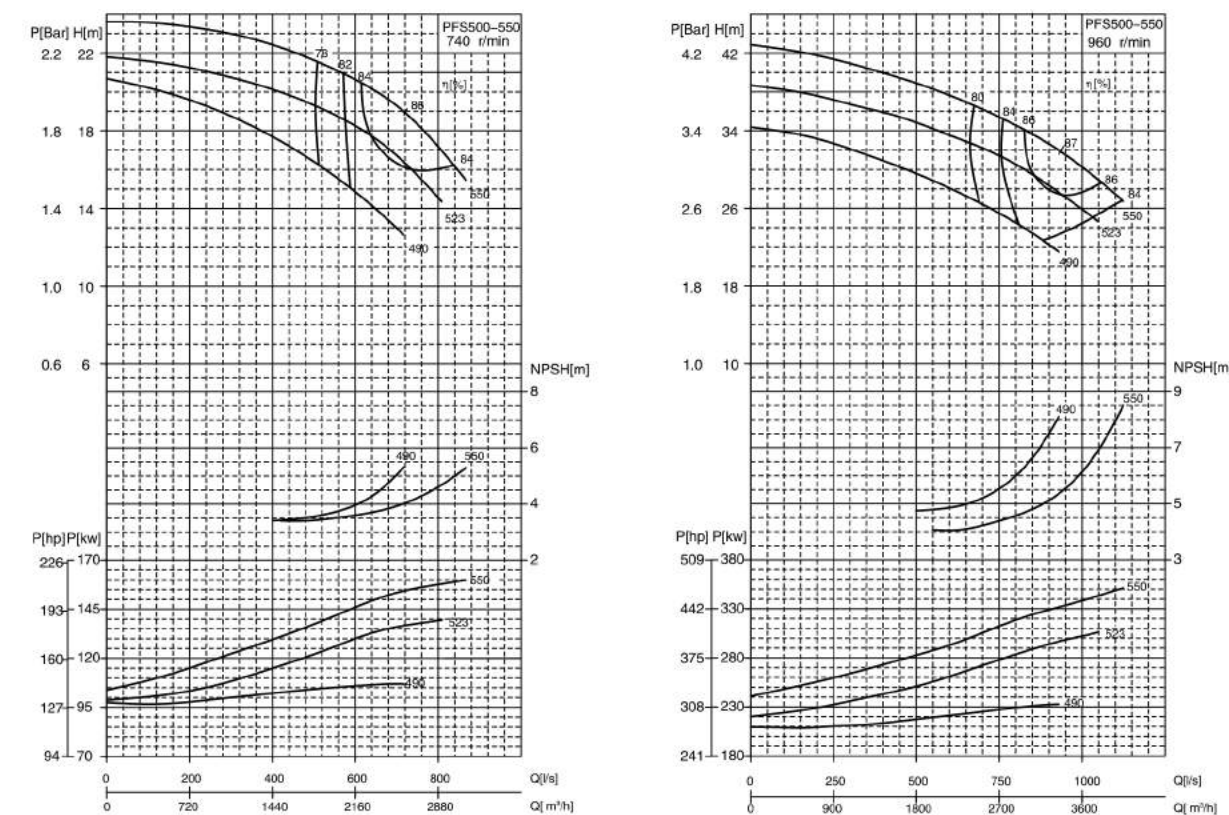
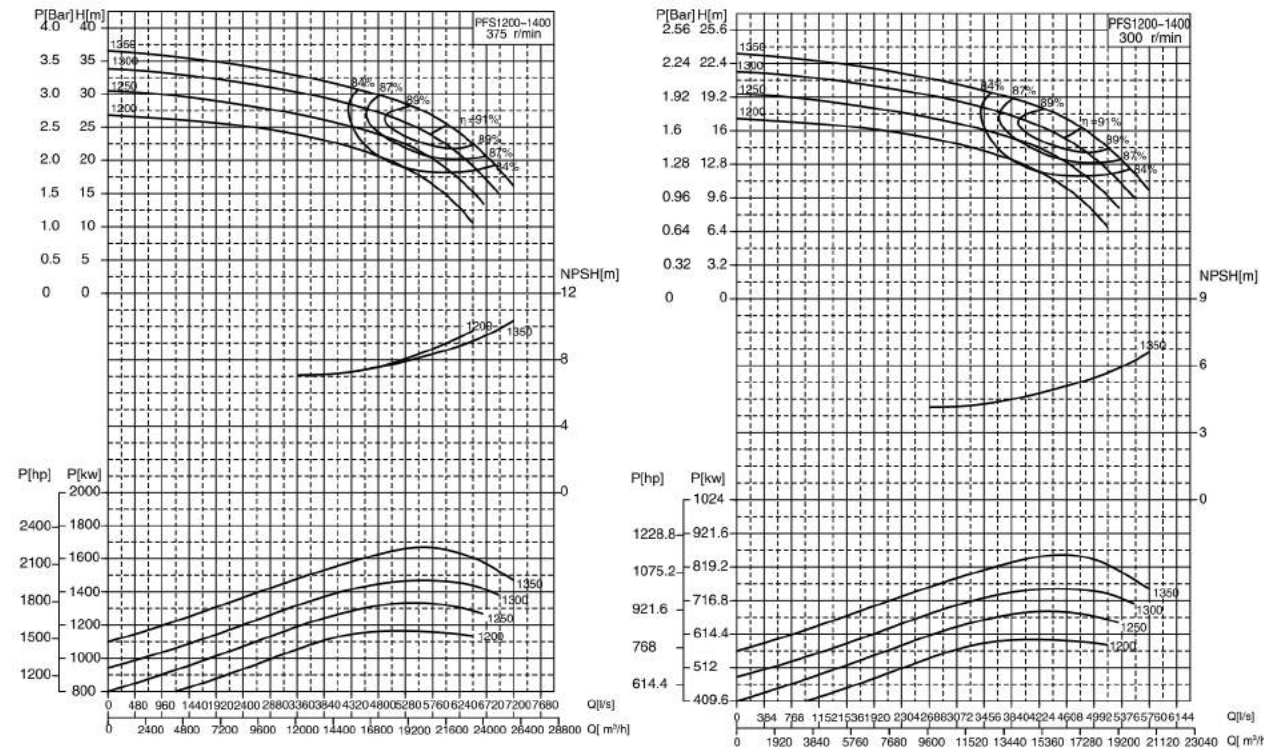
PFS1100

PFS1200

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

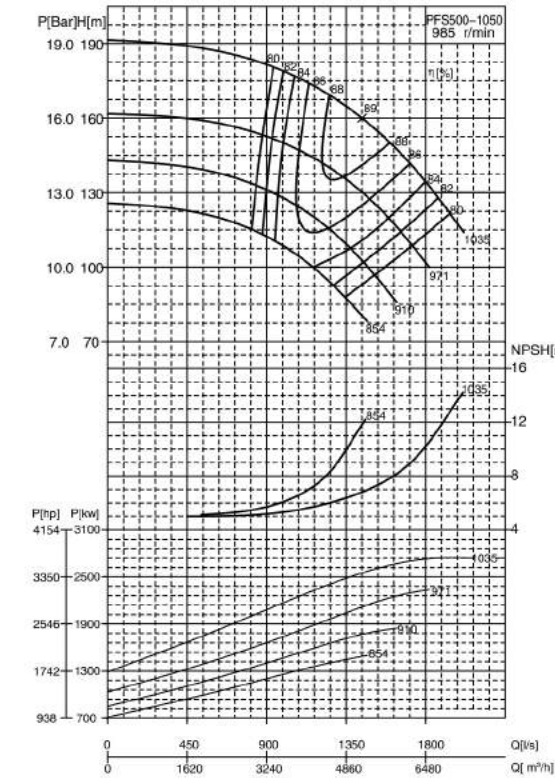
### VII、PERFORMANCE CURVE CHART 性能曲线图



# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VII、PERFORMANCE CURVE CHART 性能曲线图



PFS

PFS80

PFS100

PFS125

PFS150

PFS200

PFS250

PFS300

PFS350

PFS400

PFS450

**PFS500**

PFS600

PFS700

PFS800

PFS900

PFS1000

PFS1100

PFS1200





# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### VIII、PERFORMANCE DATA 性能参数

Model 泵型号	Capacity 流量		Head扬程 (m)	Speed转速 (r/min)	Motor power 电机功率 (Kw)	Eff效率 (%)	叶轮直径 (mm)	汽蚀余量 (NPSH) (m)		
	(m³/h)	(L/s)								
PFS250-370	A	720.0	200.0	46.0	160	80.0	389	4.1		
		1062.0	295.0						39.0	
		1368.0	380.0						30.5	
		648.0	180.0						41.0	
		1008.0	280.0						33.5	
		1296.0	360.0						24.5	
	B	648.0	180.0	34.0	132	76.0	362	4.2		
		936.0	260.0						27.0	
		1152.0	320.0						20.5	
		576.0	160.0						27.5	
		864.0	240.0						20.0	
		1008.0	280.0						16.0	
PFS250-480	A	720.0	200.0	65.0	280	80.0	478	4.0		
		1206.0	335.0						65.0	
		1584.0	440.0						52.0	
		666.0	185.0						65.0	
		1080.0	300.0						55.0	
		1440.0	400.0						42.0	
	B	576.0	160.0	45.0	220	88.0	438	4.0		
		1008.0	280.0						45.0	
		1296.0	360.0						35.0	
		1008.0	280.0						46.0	
		936.0	260.0						37.0	
		1152.0	320.0						30.0	
PFS250-600	A	828.0	230.0	130.0	560	80.0	610	2.8		
		1224.0	340.0						117.0	
		1656.0	460.0						96.0	
		720.0	200.0						113.0	
		1152.0	320.0						100.0	
		1512.0	420.0						80.0	
	B	648.0	180.0	97.0	315	83.0	520	3.5		
		1080.0	300.0						83.0	
		1260.0	350.0						75.0	
		648.0	180.0						80.0	
		1008.0	280.0						67.0	
		1224.0	340.0						58.0	
PFS250-800	A	884.0	240.0	228.0	1120	83.0	770	4.5		
		1296.0	360.0						216.0	
		1440.0	400.0						205.0	
		720.0	200.0						31.0	
		1126.8	313.0						24.0	
		1352.0	380.0						19.0	
	PFS300-300	A	684.0	190.0	26.0	110	82.0	308	4.5	
			1044.0	290.0						20.0
			1296.0	360.0						14.5
			720.0	200.0						20.5
			972.0	270.0						16.0
			1152.0	320.0						11.0
B		648.0	180.0	17.0	75	78.0	287	5.8		
		936.0	260.0						12.0	
		1152.0	320.0						8.0	
		1080.0	300.0						64.0	
		1710.0	475.0						52.5	
		2070.0	575.0						45.0	
PFS300-435	A	1080.0	300.0	55.0	315	89.0	450	5.2		
		1620.0	450.0						45.0	
		2160.0	600.0						30.0	
		1080.0	300.0						44.0	
		1476.0	410.0						37.0	
		1836.0	510.0						28.0	
	B	1080.0	300.0	38.0	280	86.5	418	5.3		
		1620.0	450.0						45.0	
		2160.0	600.0						30.0	
		1476.0	410.0						37.0	
		1836.0	510.0						28.0	
		1080.0	300.0						38.0	
PFS300-560	A	1350.0	375.0	27.5	160	78.5	354	6.6		
		1620.0	450.0						25.0	
		1080.0	300.0						107.0	
		1692.0	470.0						95.0	
		2340.0	650.0						77.0	
		900.0	250.0						90.0	
	B	1620.0	450.0	77.0	450	85.0	506	5.2		
		2160.0	600.0						61.5	
		900.0	250.0						74.0	
		1548.0	430.0						62.0	
		1888.4	524.0						53.0	
		80.0	300.0						107.0	
1692.0	470.0	95.0								
2340.0	650.0	77.0								
900.0	250.0	90.0								
1620.0	450.0	77.0								
2160.0	600.0	61.5								
900.0	250.0	74.0								
1548.0	430.0	62.0								
1888.4	524.0	53.0								

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

Model 泵型号	Capacity 流量		Head扬程 (m)	Speed转速 (r/min)	Motor power 电机功率 (Kw)	Eff效率 (%)	叶轮直径 (mm)	汽蚀余量 (NPSH) (m)	
	(m³/h)	(L/s)							
PFS300-560	C	972.0	270.0	60.0	280	75.0	426	5.0	
		1512.0	420.0						50.0
		1980.0	550.0						37.0
		900.0	250.0						182.0
PFS300-700	A	1836.0	510.0	160.0	1120	86.0	705	4.5	
		2052.0	570.0						152.0
		936.0	260.0						160.0
		1728.0	480.0						136.0
		2268.0	630.0						114.0
		900.0	250.0						132.0
	B	1620.0	450.0	112.0	900	84.0	655	4.3	
		1180.0	500.0						106.0
		900.0	250.0						108.0
		1512.0	420.0						91.0
		1872.0	520.0						80.0
		1260.0	350.0						39.0
PFS350-360	A	1260.0	350.0	39.0	560	80.0	550	4.3	
		1728.0	480.0						32.0
		2160.0	600.0						24.0
		1080.0	300.0						36.0
		1692.0	470.0						27.0
		2160.0	600.0						17.0
	B	1080.0	300.0	29.0	200	86.0	382	6.7	
		1620.0	450.0						21.5
		1980.0	550.0						15.0
		972.0	270.0						24.0
		1548.0	430.0						16.0
		1872.0	520.0						10.0
PFS350-430	A	1620.0	450.0	54.0	450	86.5	440	8.7	
		2808.0	780.0						42.0
		3294.0	915.0						35.0
		1728.0	480.0						45.0
		2628.0	730.0						35.0
		3024.0	840.0						30.0
	B	1620.0	450.0	37.5	355	84.0	411	10.3	
		2520.0	700.0						27.5
		3060.0	850.0						21.0
		1620.0	450.0						30.0
		2412.0	670.0						22.0
		2880.0	800.0						16.0
PFS350-510	A	1800.0	500.0	83.0	220	82.0	365/345	11.0	
		2664.0	740.0						70.0
		3420.0	950.0						54.0
		1620.0	450.0						73.0
		2430.0	675.0						60.0
		3240.0	900.0						43.0
	B	1620.0	450.0	60.0	630	87.5	518	6.8	
		2340.0	650.0						48.0
		2880.0	800.0						41.0
		1620.0	450.0						46.0
		2070.0	575.0						38.0
		2700.0	750.0						25.0
PFS350-570	A	1800.0	500.0	117.0	400	84.0	445	8.0	
		2520.0	700.0						103.0
		3060.0	850.0						88.0
		1656.0	460.0						100.0
		2268.0	630.0						88.0
		2880.0	800.0						74.0
	B	1440.0	400.0	87.0	560	88.5	506	6.8	
		2052.0	570.0						77.0
		2880.0	700.0						67.0
		1440.0	400.0						75.0
		1980.0	550.0						66.5
		2160.0	600.0						61.0
PFS350-630	A	1296.0	360.0	140.0	900	85.0	640	6.9	
		2160.0	600.0						126.0
		2592.0	720.0						116.0
		1296.0	360.0						128.0
		2016.0	560.0						116.0
		2520.0	700.0						100.0
	B	1188.0	330.0	118.0	800	83.5	580	4.6	
		1908.0	530.0						106.0
		2304.0	640.0						96.0
		76.0	21.0						11.0
		80.0	22.0						11.0
		84.0	23.0						11.0









# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

## VIII、PERFORMANCE DATA 性能参数

Model 泵型号	Capacity 流量		Head扬程 (m)	Speed转速 (r/min)	Motor power 电机功率 (Kw)	Eff效率 (%)	叶轮直径 (mm)	汽蚀余量 (NPSH) (m)	
	(m³/h)	(L/s)							
PFS700-800	A	5040.0	1400.0	980	2000	83.0	835	5.6	
		7380.0	2050.0			80.0		8.8	
		8640.0	2400.0			70.0		14.0	
		4680.0	1300.0			80.0		5.6	
		6984.0	1940.0			68.0		7.6	
		8280.0	2300.0			57.0		12.5	
	B	4680.0	1300.0		68.0	5.6			
		6552.0	1820.0		58.0	6.8			
		8280.0	2300.0		44.0	12.5			
		C	4680.0		1300.0	56.0	5.6		
			6012.0		1670.0	48.0	6.1		
			7200.0		2000.0	38.8	8.3		
PFS700-980	A	6480.0	1800.0	1800	1800	83.0	980	7.0	
		8640.0	2400.0			117.0		8.8	
		10080.0	2800.0			103.0		11.6	
		5760.0	1600.0			115.0		6.6	
		7920.0	2200.0			100.0		8.6	
		9360.0	2600.0			88.0		10.0	
	B	5760.0	1600.0	96.0	6.8				
		7200.0	2000.0	87.5	8.2				
		8640.0	2400.0	75.0	11.5				
		C	5760.0	1600.0	81.0	7.0			
			6840.0	1900.0	74.0	8.3			
			7560.0	2100.0	67.5	10.0			
	PFS700-980	A	4500.0	1250.0	1800	1800	80.0	980	4.1
			7560.0	2100.0			70.0		5.5
			9000.0	2500.0			60.5		7.6
			4500.0	1250.0			70.0		4.2
			6840.0	1900.0			60.0		5.5
			8550.0	2375.0			50.0		7.8
		B	4500.0	1250.0	59.0	4.3			
			6300.0	1750.0	52.0	5.2			
			8100.0	2250.0	40.5	8.5			
			C	4500.0	1250.0	50.0	4.3		
				5940.0	1625.0	45.0	5.0		
				7200.0	2000.0	37.5	7.0		
PFS800-800	A	7200.0	2000.0	900	900	83.0	790/770	5.0	
		9000.0	2500.0			27.0		7.0	
		10800.0	3000.0			19.0		11.0	
		6480.0	1800.0			31.2		4.8	
		8640.0	2400.0			24.3		7.3	
		10080.0	2800.0			16.6		9.0	
	B	6480.0	1800.0	28.0	4.8				
		8280.0	2300.0	22.3	6.0				
		9720.0	2700.0	15.3	8.0				
		C	5760.0	1600.0	26.2	4.7			
			7920.0	2200.0	19.8	5.6			
			9360.0	2600.0	13.0	7.5			
PFS800-900	A	7200.0	2000.0	1400	1400	84.0	885	5.1	
		9000.0	2500.0			46.0		6.3	
		10800.0	3000.0			38.5		9.4	
		6840.0	1900.0			48.0		5.1	
		8640.0	2400.0			42.2		6.1	
		10080.0	2800.0			36.5		7.6	
	B	6480.0	1800.0	43.6	5.1				
		8280.0	2300.0	38.5	5.6				
		10440.0	2900.0	30.4	8.4				
		C	5760.0	1600.0	41.0	5.0			
			7920.0	2200.0	35.0	5.4			
			10080.0	2800.0	27.0	7.6			
	D	5760.0	1600.0	36.0	5.0				
		7452.0	2070.0	31.0	5.1				
		9360.0	2600.0	25.6	6.7				

# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

Model 泵型号	Capacity 流量		Head扬程 (m)	Speed转速 (r/min)	Motor power 电机功率 (Kw)	Eff效率 (%)	叶轮直径 (mm)	汽蚀余量 (NPSH) (m)
	(m³/h)	(L/s)						
PFS800-990	A	7200.0	2000.0	725	2240	83.0	980	4.2
		9468.0	2630.0			64.0		6.2
		11520.0	3200.0			52.0		10.1
		6480.0	1800.0			65.6		4.0
		9396.0	2610.0			56.0		6.0
		11160.0	3100.0			44.7		9.2
	B	6120.0	1700.0		59.5	4.0		
		8640.0	2400.0		50.5	5.1		
		10440.0	2900.0		41.0	7.8		
		C	6120.0		1700.0	52.7	4.0	
			8280.0		2300.0	45.0	5.0	
			9720.0		2700.0	38.5	6.5	
PFS900-970	A	7920.0	2200.0	490	800	82.0	1000	3.5
		10134.0	2815.0			24.0		4.0
		13680.0	3800.0			17.5		6.5
		7920.0	2200.0			26.5		3.5
		10134.0	2815.0			22.0		4.0
		12960.0	3600.0			17.2		6.5
	B	8640.0	2400.0		44.0	5.0		
		12204.0	3390.0		36.5	5.8		
		15660.0	4800.0		20.6	10.5		
		A	6840.0		1900.0	41.0	5.0	
			12204.0		3390.0	33.0	5.8	
			16200.0		4500.0	20.0	10.3	
PFS900-1030	A	8640.0	2400.0	485	1120	33.0	1050	3.6
		11520.0	3200.0			28.0		4.5
		15120.0	4200.0			18.5		6.2
	10800.0	3000.0	49.0			5.2		
	13860.0	3850.0	41.0			6.3		
	17280.0	4800.0	32.0			8.1		
PFS900-1050	A	8640.0	2400.0	490	1400	43.5	1155	3.5
		11520.0	3200.0			38.0		4.3
		14040.0	3900.0			30.0		5.6
	10800.0	3000.0	62.0			5.6		
	13680.0	3800.0	55.0			6.2		
	17280.0	4800.0	43.0			8.2		
PFS1000-1170	A	11340.0	3150.0	372	900	21.7	1170	2.8
		14040.0	3900.0			18.4		3.5
		16740.0	4650.0			13.4		4.8
		9720.0	2700.0			20.5		2.8
		12960.0	3600.0			17.2		3.2
		16200.0	4500.0			11.7		4.8
	B	12960.0	3600.0		40.0	4.8		
		18360.0	5100.0		31.5	6.2		
		22140.0	6150.0		22.5	9.2		
		A	12960.0		3600.0	35.6	4.8	
			16236.0		4510.0	31.1	5.4	
			19440.0		5400.0	24.5	7.0	

PFS

DATA

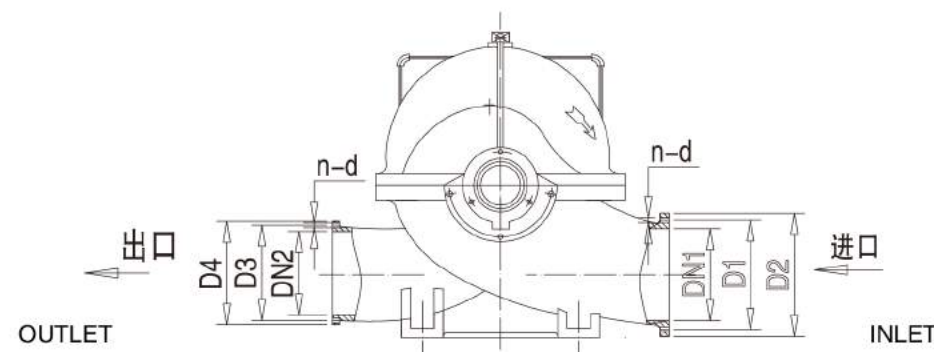
INSTALLATION SIZE

OTHERS

# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵  
PFS系列

## IX、APPEARANCE AND INSTALLATION SIZE 外型及安装尺寸 FLANGE SIZE DIAGRAM 法兰尺寸图



法兰尺寸图

Pump Model 泵型号	Inlet dia 进口口径		Inlet flange size 进口法兰尺寸		Outlet dia 出口口径		Outlet flange size 出口法兰尺寸	
	DN1	D1	D2	n-d	DN2	D2	D4	n-d
PFS80-210	125	210	279	8-Φ18	80	160	210	8-Φ18
PFS80-270	125	210	279	8-Φ18	80	160	210	8-Φ18
PFS80-370	125	210	270	8-Φ18	80	160	185	8-Φ18
PFS100-250	150	240	318	8-Φ23	100	180	254	8-Φ18
PFS100-310	150	240	300	8-Φ23	100	180	230	8-Φ18
PFS100-375	150	240	318	8-Φ23	100	180	254	8-Φ18
PFS125-230	200	295	365	12-Φ23	125	210	275	8-Φ18
PFS125-290	200	295	365	12-Φ23	125	210	272	8-Φ18
PFS125-365	200	295	365	12-Φ23	125	210	275	8-Φ18
PFS125-500	200	295	381	12-Φ23	125	210	279	8-Φ18
PFS150-290	200	295	365	12-Φ23	150	240	300	8-Φ23
PFS150-360	200	295	360	12-Φ23	150	240	300	8-Φ23
PFS150-450	200	295	365	12-Φ23	150	240	300	8-Φ23
PFS150-605	200	310	365	12-Φ25	150	250	300	8-Φ25
PFS200-320	250	355	425	12-Φ23	200	295	365	12-Φ23
PFS200-420	250	355	425	12-Φ23	200	295	356	12-Φ23
PFS200-520	250	355	445	12-Φ26	200	295	381	12-Φ22
PFS200-670	250	370	430	12-Φ30	200	310	365	12-Φ26
PFS250-370	300	410	470	12-Φ26	250	355	445	12-Φ26
PFS250-480	300	410	485	12-Φ26	250	355	425	12-Φ26
PFS250-600	300	410	485	12-Φ26	250	355	445	12-Φ26
PFS300-300	350	460	550	16-Φ22	300	400	485	12-Φ22

# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵  
PFS系列

Pump Model 泵型号	Inlet dia 进口口径		Inlet flange size 进口法兰尺寸		Outlet dia 出口口径		Outlet flange size 出口法兰尺寸	
	DN1	D1	D2	n-d	DN2	D2	D4	n-d
PFS300-435	400	525	580	16-Φ30	300	410	460	12-Φ26
PFS300-560	400	525	580	16-Φ30	300	410	460	12-Φ26
PFS300-700	400	550	610	16-Φ36	300	430	485	12-Φ30
PFS350-360	400	525	597	16-Φ30	350	470	533	16-Φ26
PFS350-430	450	585	649	16-Φ30	350	470	533	16-Φ26
PFS400-560	500	585	705	20-Φ34	400	525	580	16-Φ30
PFS400-600	500	620	670	20-Φ31	400	525	580	16-Φ30
PFS400-665	500	650	715	20-Φ36	400	525	580	16-Φ30
PFS400-675	500	660	730	20-Φ37	400	550	620	16-Φ31
PFS400-705	500	660	730	20-Φ37	400	550	620	16-Φ31
PFS400-900	500	660	730	20-Φ41	400	550	620	16-Φ34
PFS400-935	500	686	775	24-Φ35	400	572	650	20-Φ34
PFS500-520	600	770	840	20-Φ34	500	650	715	20-Φ34
PFS500-585	600	725	780	20-Φ30	500	620	670	20-Φ27
PFS500-650	600	725	780	20-Φ30	500	620	670	20-Φ27
PFS500-685	600	725	780	20-Φ30	500	620	670	20-Φ27
PFS500-710	600	725	780	20-Φ30	500	620	670	20-Φ27
PFS500-800	600	770	840	20-Φ34	500	650	715	20-Φ34
PFS500-835	600	770	840	20-Φ34	500	650	715	20-Φ34
PFS500-860	600	725	780	20-Φ30	500	650	705	20-Φ34
PFS500-870	600	770	840	20-Φ34	500	650	715	20-Φ34
PFS500-1015	600	770	845	20-Φ39	500	660	730	20-Φ36
PFS500-1050	600	770	845	20-Φ39	500	660	730	20-Φ36
PFS600-560	700	840	910	24-Φ36	600	770	840	20-Φ36
PFS600-600	700	840	910	24-Φ36	600	770	840	20-Φ36
PFS600-630	700	840	910	24-Φ36	600	770	840	20-Φ36
PFS600-705	700	840	910	24-Φ36	600	770	840	20-Φ36
PFS600-710	700	840	895	24-Φ30	600	725	780	20-Φ36
PFS600-860	700	840	910	24-Φ36	600	770	840	20-Φ36
PFS600-885	700	840	910	24-Φ36	600	770	840	20-Φ36
PFS600-1075	700	875	910	24-Φ37	600	770	845	20-Φ39
PFS700-600	800	950	1025	24-Φ34	700	840	910	24-Φ36
PFS700-710	800	950	1025	24-Φ34	700	840	910	24-Φ36
PFS700-800	800	950	1025	24-Φ34	700	840	910	24-Φ36
PFS700-980	800	950	1025	24-Φ34	700	840	910	24-Φ36
PFS800-800	900	1050	1125	28-Φ34	800	950	1025	24-Φ34
PFS800-900	900	1050	1125	28-Φ34	800	950	1025	24-Φ34

PFS

DATA

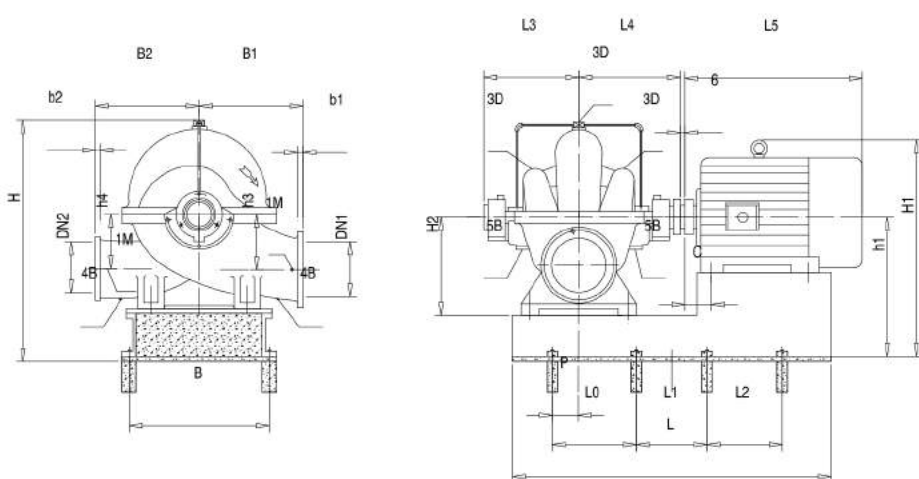
INSTALLATION  
SIZE

OTHERS

# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

Overall size (Y serial motor)  
主要外形尺寸 (配 Y 型电机)  
80-210



连接螺纹尺寸  
Connect nut size

1M	真空表 Vacuum meter	R1/2
2M	压力表 Pressure meter	R1/2
3D	排气孔 Vent	R1/2
4B	排水孔 scupper	R1/2
5B	漏液排出孔 Leakage vent	R3/4

泵型号 Pump Model		法兰尺寸 flange size				泵尺寸 pump size							泵质量 weight(kg)											
		DN1	DN2	b1	b2	B1	B2	L4	H≤	L3	H2	h3	h4											
PFS80-210		125	80	26	24	300	300	443	600	336	315	140	140	278										
PFS80-270						315	140				140	293												
PFS80-370						315	140				140	308												
电机极数 Motor pole	泵型号 Pump Model	电机型号 Motor type	电机功率 motor power (kw)	B	h1	H1	L	L0	L1	P	L5	电机重量 motor weight (Kg)	底座参考重量 base weight (kg)											
4	PFS80-370	PFS80-210	100L 2.2-3	340	435	580	880	443	600	336	70	380	39	70										
			100M 4			288	890					345	400		45									
			132S 5.5			618	930					356	475		72									
			132M 7.5			618	970					385	515		84									
			160M 11			660	1050					425	605		130									
			160L 15			660	1135					450	650		144									
			180M 18.5			660	1150					455	670		180									
			180L 22			660	1180					475	710		195									
			5			PFS80-270	PFS80-210					160L 18.5	340		435	660	1100	443	600	336	70	650	150	70
												160M 22				685	1100					455	670	
200L 30	710	1190		495	775			255																
225M 45	765	1230		515	815			325																
250M 55	785	1310		560	930			395																
280S 75	820	1410		595	1000			500																

# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

泵型号 Pump Model		法兰尺寸 Flange size				泵尺寸 Pump size							泵质量 Weight(kg)		
		DN1	DN2	b1	b2	B1	B2	L4	H≤	L3	H2	h3	h4		
PFS100-250		150	100	28	24	330	330	443	760	336	355	170	170	315	
PFS100-310						355	170				170	338			
PFS100-375						355	170				170	368			
电机极数 Motor pole	泵型号 Pump type	电机型号 Motor type	电机功率 Motor power (kw)	B	h1	H1	L	L0	L1	P	L5	电机重量 Motor weight (Kg)	底座参考重量 Base weight (kg)		
4	PFS100-375	PFS100-250	132S 5.5	400	475	658	930	443	760	336	70	475	72	80	
			132M 7.5			658	970					385	515		84
			160M 11			700	1090					430	605		130
			160L 15			700	1100					450	650		145
			180M 18.5			725	1180					470	670		480
			180L 22			725	1180					470	710		200
			200L 30			750	1190					495	775		270
			225S 37			780	1220					510	820		284
			225M 45			780	1270					520	845		320
			2			PFS100-310	PFS100-250					220L 37	400		475
225M 45	780	1245		505	815			308							
250M 55	825	1320		560	930			403							
280S 75	825	1410		595	1000			544							
280M 90	860	1440		620	1050			620							
315S 110	860	1480		640	1240			980							
315M 132	508	500		1050	1310			1080							
315L 200	508	500		1050	1310			1220							

泵型号 Pump Model		法兰尺寸 Flange size				泵尺寸 Pump size							泵质量 Weight(kg)												
		DN1	DN2	b1	b2	B1	B2	L4	H≤	L3	H2	h3	h4												
PFS125-230		200	125	30	26	370	370	517.5	825	366	400	200	200	375											
PFS125-290						400	200				200	413													
PFS125-365						400	200				200	450													
PFS125-500						400	200				200	503													
电机极数 Motopole	泵型号 Pump type	电机型号 Motor type	电机功率 motor power (kw)	B	h1	H1	L	L0	L1	P	L5	电机重量 Motor weight (Kg)	底座参考重量 Base weight (kg)												
4	PFS125-365	PFS125-230	132M 7.5	450	520	703	1100	443	825	366	105	515	84	80											
			160M 11			745	1190					495	605		130										
			160L 15			770	1240					520	650		145										
			180M 18.5			770	1250					540	670		180										
			180L 22			795	1300					540	710		200										
			200L 30			795	1340					560	775		270										
			225S 37			825	1350					575	820		284										
			225M 45			825	1380					590	845		320										
			250M 55			845	1440					620	930		427										
			280S 75			845	1440					620	930		427										
2	PFS125-290	PFS125-230	225S 37	560	520	825	1350	443	825	366	105	820	284	125											
			225M 45			825	1380					590	845		320										
			250M 55			845	1440					620	930		427										
			280S 75			845	1510					655	1000		562										
			280M 90			880	1575					680	1050		667										
			315S 110			1071	1630					715	1270		1000										
			2			PFS125-500	PFS125-230					280S 75	560		520	905	1520	443	825	366	120	1000	544	160	
												280M 90				905	1580					690	1050		620
												315S 110				1095	1620					710	1240		980
												315M 132				1095	1670					735	1310		1080
315L 160-200	560	520		1095	1310			1200																	
355M 220-250	640	520		1095	1540			1350																	









# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

Pump Model 泵型号	Flange size 法兰尺寸				Pump size 泵尺寸																Pump weight (kg) 泵质量
	DN1	DN2	S1	S2	B1	B2	e	f	h1	h2	h3	h4	L1	L2	L3	b1	b2	b3	b4		
PFS700-600	800	700	58	54	1300	800	1040	1250	1150	720	600	600	700	1000	1350	550	850	550	550	6065	
PFS700-710	800	700	58	54	1200	1150	1080	1310	1170	750	620	620	1000	1000	1350	550	850	550	550	7994	
PFS700-800	800	700	58	54	1250	1250	1110	1390	1200	850	650	650	1050	1050	1370	550	870	600	600	9113	
PFS700-980	800	700	58	54	1300	1050	1011	1365	1500	930	850	850	850	850	1340	940	940	650	650	7700	
Motor pole 电机极数	Pump Model 泵型号	Motor Model 电机型号	Motor power (Kw) 电机功率	L4	L5	b5	b6	h5	h6	c	q	Motor weight (kg) 电机重量									
6	PFS700-600	PFS700-600	4503	560	600	480	1000	1760	450	1350	567	2160	3930								
			4504	630	600	480	1000	1760	450	1350	567	2160	3960								
			5001	710	680	560	1120	1940	500	1520	727	2430	4660								
			5003	900	680	560	1120	1940	500	1520	727	2430	4930								
			5004	1000	680	560	1120	1940	500	1520	727	2430	5100								
	PFS700-800	PFS700-800	5601	1120	750	800	1250	2000	560	1800	752	2490	5900								
			5602	1250	750	800	1250	2000	560	1800	752	2490	6200								
			5603	1400	750	800	1250	2000	560	1800	752	2490	6500								
			6302	1800	840	800	1400	2400	630	2000	832	2930	8700								
			6303	2000	840	800	1400	2400	630	2000	832	2930	9200								
8	PFS700-980	6302	1250	840	6302	1250	840	1000	1400	2200	630	2000									
		6303	1400	840	6303	1400	840	1000	1400	2200	630	2000									
		7101	1800	1200	7101	1800	1200	1200	1600	2400	710	2332									
		7102	2000	1200	7102	2000	1200	1200	1600	2400	710	2339									

# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵 PFS系列

Pump Model 泵型号	Flange size 法兰尺寸				Pump size 泵尺寸																Pump weight(kg) 泵质量
	DN1	DN2	S1	S2	B1	B2	e	f	h1	h2	h3	h4	L1	L2	L3	b1	b2	b3	b4		
PFS800-800	900	800	62	58	1400	950	1130	1360	1380	920	770	770	850	1000	1450	650	950	350	500	8542	
PFS800-900	900	800	62	58	1400	1125	1130	1450	1360	900	770	770	1000	1050	1450	650	950	500	550	9936	
PFS800-990	900	800	62	58	1400	1300	1220	1530	1370	850	760	760	1100	1100	1450	650	950	600	600	11714	
Motor pole 电机极数	Pump Model 泵型号		Motor Model 电机型号	Motor power (KW) 电机功率	L4	L5	b5	b6	h5	h6	c	q	(kg)Motor weight 电机重量								
6	PFS800-800	PFS800-800	5003	630	680	850	1120	1650	500	1520	727	2200	4900								
			5004	710	680	850	1120	1650	500	1520	727	2200	5200								
			5601	800	750	800	1250	2000	560	1800	802	2540	5500								
			5602	900	750	800	1250	2000	560	1800	802	2540	5850								
			5603	1000	750	800	1250	2000	560	1800	802	2540	6250								
	PFS800-900	PFS800-900	6301	1120	840	1000	1400	2200	630	2000	832	2830	7500								
			6302	1250	840	1000	1400	2200	630	2000	832	2830	7800								
			6303	1400	840	1000	1400	2200	630	2000	832	2830	8200								
			6304	1600	840	1000	1400	2200	630	2000	832	2830	8600								
			7101	1800	1200	1200	1600	2400	710	2333	882	3203	11200								
PFS800-990	PFS800-990	7103	2240	1200	1200	1600	2400	710	2342	882	3212	12200									

Pump Model 泵型号	Flange size 法兰尺寸				Pump size 泵尺寸																Pump weight (kg) 泵质量
	DN1	DN2	S1	S2	B1	B2	e	f	h1	h2	h3	h4	L1	L2	L3	b1	b2	b3	b4		
PFS900-970	1000	900	50	46	1600	1300	1470	1780	1650	1265	975	975	1060	1260	1550	500	800	600	800	11125	
PFS900-1030	1000	900	50	46	1600	1300	1470	1780	1650	1265	975	975	1060	1260	1550	500	800	600	800	11200	
PFS900-1050	1000	900	50	46	1600	1300	1470	1780	1650	1265	975	975	1060	1260	1550	500	800	600	800	11851	
PFS1000-1170	1200	1000	56	50	1800	1300	1575	1780	1820	1375	1040	1040	1060	1260	2150	1000	1400	550	750	16000	
Motor pole 电机极数	Pump Model 泵型号		Motor Model 电机型号	Motor power(KW) 电机功率	L4	L5	b5	b6	h5	h6	c	q	(kg)Motor weight 电机重量								
10	PFS900-970	PFS900-970	6303	1400	840	1000	1400	2200	630	2000	832	2830	8200								
			7101	1600	1200	1200	1600	2400	710	2334	882	3204	11100								
	PFS900-1030	PFS900-1030	7103	2000	1200	1200	1600	2400	710	2343	882	3213	12100								
			8002	2500	1340	1400	1860	2600	800	2550	882	3420	16300								
12	PFS900-970	PFS900-970	6302	800	840	1000	1400	2200	630	2000	832	2830	7780								
			7101	1120	1200	1200	1600	2400	710	2335	882	3205	11000								
	PFS900-1050	PFS900-1050	7103	1400	1200	1200	1600	2400	710	2344	882	3214	12000								
			8001	1600	1340	1400	1860	2600	800	2550	882	3420	15000								
16	PFS1000-1170	PFS1000-1170	8002	1800	1340	1400	1860	2600	800	2550	882	3420	15700								
			7103	800	1200	1200	1600	2400	710	2345	882	3215	11400								
			7104	900	1200	1200	1600	2400	710	2346	882	3216	11900								

PFS

DATA

INSTALLATION  
SIZE

OTHERS

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### TECHNOLOGY INDEX 技术索引

Material Compatibility Table of Different Pumped Medium 泵在不同输送介质下的材料兼容性表

Liquid 液体	concentration 浓度 [%]	Min. T 温度最低 Max. T 最高 [°C]	Density 密度 [Kg/dm³]	VM2 / 4 / 8 / 16 Standard Type N Type	VM30-VM30 Standard Type N Type	Seal Recommended 推荐密封	Rubber Parts 橡胶件
Water 水	100	-5/+120		*	*	Q1BEGG	E
Deionized, Desalted, Distilled Water 脱离子, 脱盐或蒸馏水	100	-25/+110		*	*	Q1BEGG	E
Water & Oil Emulsion 水和油乳剂	Any	-5/+90		*	*	Q1BVGG	V
Acetic Acid (·) 醋酸 (·)	80	-10/+70	1.05	*	*	Q1BEGG	E
Citric Acid 柠檬酸	5	-10/+70	1.54	*	*	Q1BEGG	E
Hydrochloric Acid 氢氯酸	2	-5/+25	1.20	*	*	Q1Q1VGG	V
Phosphoric Acid 磷酸	10	-5/+30	1.33	*	*	Q1BEGG	E
Nitric Acid (·) 硝酸 (·)	50	-5/+30	1.48	*	*	Q1Q1VGG	V
Chlorhydric Acid (·) 盐酸 (·)	2	-10/+25	1.84	*	*	Q1BVGG	V
Tannic Acid 鞣酸	20	0/+50		*	*	Q1BEGG	E
Tartaric Acid 酒石酸	50	-10/+25	1.76	*	*	Q1Q1VGG	V
Uric Acid 尿酸	80	-10/+80	1.89	*	*	Q1BEGG	E
Benzoic Acid 苯甲酸	70	0/+70	1.31	*	*	Q1BVGG	V
Boric Acid 硼酸	satura	-10/+90	1.43	*	*	Q1QVGG	V
Formic Acid (·) 蚁酸 (·)	5	-15/+25	1.22	*	*	Q1BEGG	E
Ethanol (·) 乙醇 (·)	100	-5/+40	0.81	*	*	Q1BEGG	E
Carbinol (·) 甲醇 (·)	100	-5/+40	0.79	*	*	Q1BEGG	E
Propyl Alcohol (·) 丙醇 (·)	100	-5/+80	0.80	*	*	Q1BEGG	E
Butanol 丁醇	100	-5/+80	0.81	*	*	Q1BVGG	V
Industrial Alcohol (·) 工业酒精 (·)	100	-5/+70	0.81	*	*	Q1BEGG	E
Ammonia Water (·) 氨水 (·)	25	-20/+50	0.99	*	*	Q1BEGG	E
Chloroform 氯仿		-10/+30	1.48	*	*	Q1BVGG	V
Caustic Soda 苛性钠	25	0/+70	2.13	*	*	Q1Q1EGG	E
Mixture of Water, Detergent, Mineral 水, 洗涤剂, 矿物质混合物		-5/+80		*	*	Q1Q1VGG	V
Cleaning Product 清洗产品		-5/+100		*	*	Q1Q1VGG	V
Diesel (·) 柴油 (·)	100	0/+80	0.90	*	*	Q1BVGG	V
Kerosene (·) 煤油 (·)	100	0/+80		*	*	Q1BVGG	V
Fuel Oil 燃料油		0/-90	0.76	*	*	Q1BVGG	V
Glycerin 甘油	100	+20/+90	1.26	*	*	Q1BEGG	E
Sodium Hypochlorite 次氯酸钠	1	-10/+25		*	*	Q1Q1VGG	V
Phosphate/Polyphosphate 磷酸盐/聚磷酸盐		-5/+90		*	*	Q1Q1VGG	V
Formaldehyde 甲醛	100	0/+30	1.13	*	*	Q1Q1TGG	T
Sodium Nitrate 硝酸钠	Satura	-10/+80	2.25	*	*	Q1BEGG	E
Cutter Lubricant 切削油	100	-5/+110	0.90	*	*	Q1BVGG	V
Arachis Oil (·) (·) 花生油 (·) (·)	100	-5/+110	0.95	*	*	Q1BEGG	E
Rape Oil (·) (·) 菜子油 (·) (·)	100	-5/+110	0.94	*	*	Q1BEGG	E
Linseed Oil (·) (·) 亚麻子油 (·) (·)	100	-5/+110	0.92	*	*	Q1BEGG	E
Coconut Oil (·) (·) 椰子油 (·) (·)	100	-20/+90		*	*	Q1BEGG	E
Soya-bean Oil (·) (·) 豆油 (·) (·)	100	0/+90	0.09	*	*	Q1BEGG	E
透热油	100	-5/+110		*	*	Q1BVGG	V
Hydraulic Oil 液压油	100	-5/+110	0.94	*	*	Q1BVGG	V
Mineral Oil 矿物油	100	-5/+110	2.60	*	*	Q1BVGG	V
Sodium Sulfate 硫酸钠	15	-10/+40	2.71	*	*	Q1Q1EGG	E
Aluminum Sulfate 硫酸铝	30	-5/+50	1.77	*	*	Q1Q1EGG	E
Ammonium Sulfate 硫酸铵	10	-10/+80	2.09	*	*	Q1Q1EGG	E
Ferric Sulfate 硫酸铁	10	-5/+30	2.28	*	*	Q1BEGG	E
Copper Sulfate 硫酸铜	20	-10/+40	1.46	*	*	Q1Q1VGG	V
Triclene 三氯乙烯		0/+30	1.60	*	*	Q1Q1VGG	V
Perchloroethylene 全氯乙烯		-10/+30		*	*	Q1Q1VGG	V

VM OPTIONS VM系列机械密封选项

Standard 标准	Q1BEGG
Option1 选项1	Q1Q1EGG
Option2 选项2	Q1BVGG
Option3 选项3	Q1Q1VGG
Option4 选项4	Q1CTGG
Option5 选项5	Q1Q1TGG

Meaning of code/代码含义:

Q1 = Carbofrax /碳化硅
B = Resin impregnated carbon /树脂清渍碳
C = Special resin impregnated carbon /特种树脂清渍碳

E = EPDM/三元乙丙橡胶

V = FPM氟化橡胶

T = PTFE/聚四氟乙烯

G = AISI316

# DOUBLE SUCTION CENTRIFUGAL PUMP

## PFS SERIES / 单级双吸离心泵 PFS系列

### NPSH 汽蚀余量

泵吸入端的最小压力由于可能产生汽蚀而受到限制。

汽蚀现象是液体中形成的气泡，其中的压力局部降到一个临界值或局部压力等于或刚好低于液体的蒸汽压力。气泡随水流流动，当它达到较高的压力区时，包含在空穴中的蒸汽浓缩。汽蚀碰撞，产生传输到壁上的压力波。由于遭受应力循环，这些管壁逐渐会变形，由于疲劳而弯曲。这种以敲打管壁产生金属噪声为特征的现象被称为汽蚀。

由于管壁的塑性变形，汽蚀造成的损坏因电化学腐蚀和局部的温度的增加而加剧。耐热和耐腐蚀性最高的材质是合金钢，特别是奥式体钢。触发汽蚀的条件可通过计算总的净吸水头来决定，技术文献中净吸水头用缩写NPSH表示。

NPSH表示在初始汽蚀条件下在吸入端测得的总液体能量（用米表示）不包括泵吸入口液体具有的蒸汽压力（用米表示）。在安全条件下安装机器的静态高度，必需用公式验证： $H_p+h_z \geq (NPSH_r+0.5)+h_f+h_{pv}$  其中：

$h_p$ : 是施加到吸入自由液体表面的绝对压力，单位m.表示； $h_p$ 大气压力与液体比重之间的商数。

$h_z$ : 是泵轴与吸入罐自由液体表面之间的吸升高度，用m.表示；当液位低于泵轴时 $h_z$ 是负数。

$h_f$ : 是吸入管路及其附件，如管配件，底阀，闸阀，弯管等流动阻力。

$h_{pv}$ : 是工作温度下液体的蒸汽压力，用m.表示； $h_{pv}$ 是蒸汽压力 $p_v$ 与液体比重之间的商数。

0.5: 是安全系数。

安装时，最大的吸水高度取决于泵所在地的大气压力（安装的海拔高度）和液体温度。

为了帮助用户了解水温和海拔高度对吸水高度的影响，下表提供了相对于海拔高度的液压水头的下降和相对于温度的吸升损失。

水温 (°C)	20	40	60	80	90	110	120
吸升损失	0.2	0.7	2.0	5.0	7.4	15.4	21.5
海拔高度	500	1000	1500	2000	2500	3000	
吸升损失	0.55	1.1	1.65	2.2	2.75	3.3	

流动阻力参见后面的有关表格中数据。要将其降低到最低点，尤其在高吸入水头（4-5米以上）或高流速工作极限内，我们建议使用比泵吸入口直径大的吸入管线。

进行下列计算

液体：温度15°C的水 $\rho=1\text{kg/dm}^3$

所需流量：30m³/h

所需扬程：43m

吸升高度：3.5m

水泵的NPSH值在30m³/h时为2m。对于15°C的水，

$h_{pv}=0.174\text{m}(0.01701\text{bar})$   $H=pa/p=10.33\text{m}$  安装着底阀的吸入管线中的流动阻力是1.2m。

用上述数值代入公式中，我们得到： $10.33+(-3.5) \geq 2+0.5+1.2+0.7$

从中我们得知： $6.8 > 4.4$ 关系式，因此可以验证。

PFS

DATA

INSTALLATION SIZE

OTHERS



# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵  
PFS系列

## VALVE ELBOW 阀门 弯头

Flow Resistance of Elbow Valve & Gate Valve (CM Water Column) 弯头、阀门和闸阀的流动阻力 (CM水柱)

Flow Rate 流速	Sharp Elbow 锐角弯头					Smooth Elbow 光滑弯头					Standard Gate Valve 标准闸阀	Foot Valve 底阀	Check Valve 止回阀
	a=30	a=40	a=60	a=80	a=90	=0.4	=0.6	=0.8	=1	1.5			
0.10	0.03	0.04	0.05	0.07	0.08	0.007	0.008	0.01	0.0155	0.027	0.030	30	30
0.15	0.06	0.07	0.10	0.14	0.17	0.016	0.019	0.024	0.033	0.06	0.033	31	31
0.2	0.11	0.13	0.18	0.26	0.31	0.028	0.033	0.04	0.058	0.11	0.058	31	31
0.25	0.17	0.21	0.28	0.4	0.48	0.044	0.052	0.063	0.091	0.17	0.090	31	31
0.3	0.25	0.30	0.41	0.6	0.7	0.063	0.074	0.09	0.13	0.25	0.13	31	31
0.35	0.33	0.40	0.54	0.8	0.93	0.085	0.10	0.12	0.18	0.33	0.18	31	31
0.4	0.43	0.52	0.71	1.0	1.2	0.11	0.13	0.16	0.23	0.43	0.23	32	31
0.5	0.67	0.81	1.1	1.6	1.9	0.18	0.21	0.26	0.37	0.67	0.37	33	32
0.6	0.97	1.2	1.6	2.3	2.8	0.25	0.29	0.36	0.52	0.97	0.52	34	32
0.7	1.35	1.65	2.2	3.2	3.9	0.34	0.40	0.48	0.70	1.35	0.70	35	32
0.8	1.7	2.1	2.8	4.0	4.8	0.45	0.53	0.64	0.93	1.7	0.95	36	33
0.9	2.2	2.7	3.6	5.2	6.2	0.57	0.67	0.82	1.18	2.2	1.20	37	34
1.0	2.7	3.3	4.5	6.4	7.6	0.7	0.82	1.0	1.45	2.7	1.45	38	35
1.5	6.0	7.3	10	14	17	1.6	1.9	2.3	3.3	6	3.3	47	40
2.0	11	14	18	26	31	2.8	3.3	4.0	5.8	11	5.8	61	48
2.5	17	21	28	40	48	4.4	5.2	6.3	9.1	17	9.1	78	58
3.0	25	30	41	60	70	6.3	7.4	9	13	25	13	100	71
3.5	33	40	55	78	93	8.5	10	12	18	33	18	123	85
4.0	43	52	70	100	120	11	13	16	23	42	23	150	100
4.5	55	67	90	130	160	14	21	26	37	55	37	190	120
5.0	67	82	110	160	190	18	29	36	52	672	32	220	140

1.The flow resistance in elbow is caused by the Contraction of flow line what is due to the change of direction.

2.The flow resistance of the value and gate valve are confirmed according to the actual test results.

1.弯头中的流动阻力是由于方向的改变导致流线的收缩引起的。

2.阀门和闸阀的流动阻力值根据实际的测试结果而定。

# DOUBLE SUCTION CENTRIFUGAL PUMP

PFS SERIES / 单级双吸离心泵  
PFS系列

## Unit Conversion Tables 单位换算表

Flow 流量					
升每分 (l/min)	立方米每小时 (m <sup>3</sup> /h)	立方英尺每小时 (ft <sup>3</sup> /h)	立方英尺每分钟 (ft <sup>3</sup> /min)	英制加仑每分钟 (Imp.gal./min)	美制加仑每分钟 (US gal./min)
1.0000	0.06600	2.1189	0.0353	0.2200	0.2640
16.6670	1.0000	35.3147	0.5886	3.6660	4.4030
0.4720	0.0283	1.0000	0.0167	0.1040	0.1250
28.3170	1.6990	60.0000	1.0000	6.2290	7.4800
4.5460	0.2728	9.6326	0.1605	1.0000	1.2010
3.7850	0.2271	8.0209	0.1337	0.8330	1.0000
0.1100	0.0066	0.2339	0.0039	0.2040	0.0290

Pressure and water 压力与水					
每平方米牛顿 (N/m <sup>2</sup> )	千帕 (kpa)	巴 (bar)	英磅平方英寸 (psi)	米水柱 (m H <sub>2</sub> O)	毫米水银柱 (mm Hg)
1.0000	0.0010	1*105	1.45*10 <sup>-4</sup>	1.02*10 <sup>-4</sup>	0.0075
1.000.0000	1.0000	0.0100	0.1450	0.1020	7.5000
100.000.0000	100.0000	1.0000	14.5000	10.2000	750.1000
98.067.0000	98.0700	0.9810	14.2200	10.0000	735.6000
6.895.0000	6.8950	0.0690	1.0000	0.7030	51.7200
2.984.0000	2.9840	0.0300	0.4330	0.3050	22.4200
9.7890000	9.7890	0.0980	1.4200	1.0000	73.4200
133.3000	0.1330	0.0013	0.0190	0.0140	1.0000
3.386.0000	3.3860	0.0338	0.4910	0.3450	25.400090

Length 长度					
毫米 (mm)	厘米 (cm)	米 (m)	英寸 (in)	英尺 (ft)	码 (yd)
1.0000	0.1000	0.0010	0.0394	0.0033	0.0011
10.0000	1.0000	0.0100	0.3937	0.0328	0.0109
1000.0000	100.0000	1.0000	39.3701	3.2808	1.0936
25.4000	2.5400	0.0254	1.0000	0.8033	0.0278
304.8000	30.4800	0.3048	12.0000	1.0000	0.3333
914.4000	91.4400	0.9144	36.0000	3.0000	1.0000

Volume 容积					
立方米 (m <sup>3</sup> )	升 (L)	毫升 (ml)	英制加仑 (imp.gal.)	美制加仑 (US gal)	立方英尺 (ft <sup>3</sup> )
1.0000	1.000.0000	1*10	220.0000	264.2000	35.3147
0.0010	1.0000	1.000.0000	0.2200	0.2642	0.0353
1*10	0.0010	1.0000	22*10	2.642*10	3.53*10
0.0045	4.5460	4.546.0000	1.0000	1.2010	0.1605
0.0038	3.7850	3.785.0000	0.8327	1.0000	0.1337
0.0283	28.3170	28.317.0000	6.2288	7.4805	1.000

