

**API Petrochemical Process**  
*Centrifugal Pumps*

## PC series



## Introduction

e.g. **PC 50 1 200 - 25 x**

- PC** - Series name  
**50** - Discharge diameter (mm)  
**1** - Bearing bracket size  
**200** - Nominal Impeller diameter (mm)  
**25** - Pump Max. Pressure (bar):  
**x** - Pump structure. as below:  
O - opened impeller;  
F - assistant impeller sealing;  
G - heating coating design;

### Introduction

PC Series of pumps are designed according to AP16 I 0th edition and according to VDMA24297 (light/medium/high duty) criteria as well.

The pumps can be used in most pumping process due to its various design capabilities. The pumps are designed for the delivery of most fluids in petrochemical processes. applied to pumping clean of slightly polluted, cold or hot, chemically neutral or aggressive liquids.

**DN** 25 - 400mm  
**Q** ~2600m<sup>3</sup>/h  
**P.P.** up to 7.5Mpa  
**H** ~300m  
**t** -80°C ~ 450°C

### Applications

- Refineries, petrochemical Industry
- Paper and pulp industries, sugar Industry
- Water industry, particularly In seawater desalination plants
- Power plant
- Cool processing Industry
- Heating and air-conditioning system
- Environmental protection engineering
- Ship and offshore Installations

### Design Construction

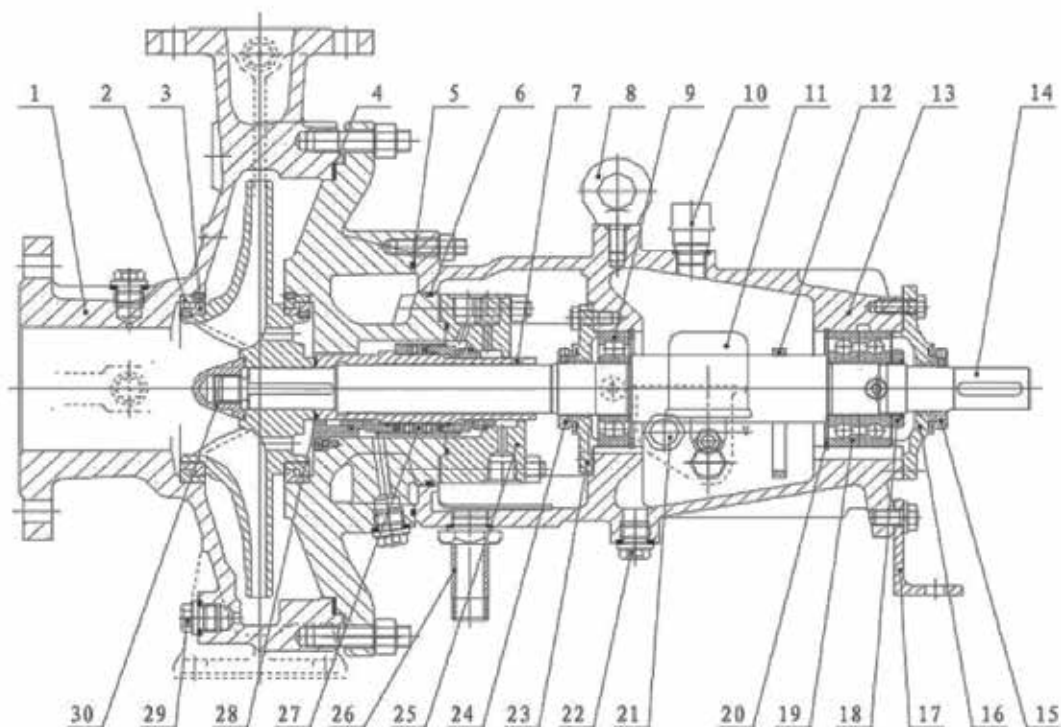
Horizontal single stage radially split volute casing pumps foot mounted or centerline mounted. Closed /opened single flow radial impeller.

Axial suction branch, vertical radial discharge branch with flanges being able to withstand bigger loads.

The flanges can also be machined to meet different standards. Shaft sealing chamber referred to API 68 specified for the installation of cartridge type or not single, double or tandem mechanical seals.

Packing can also be selected.

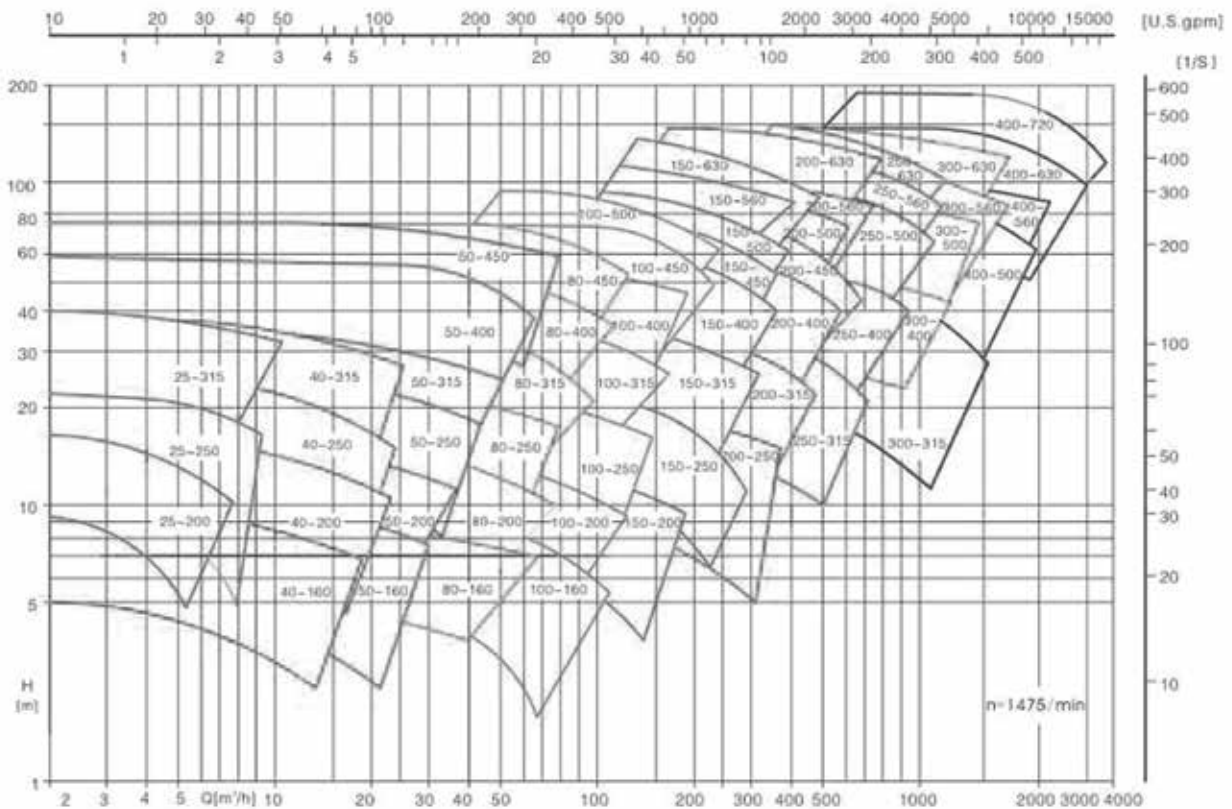
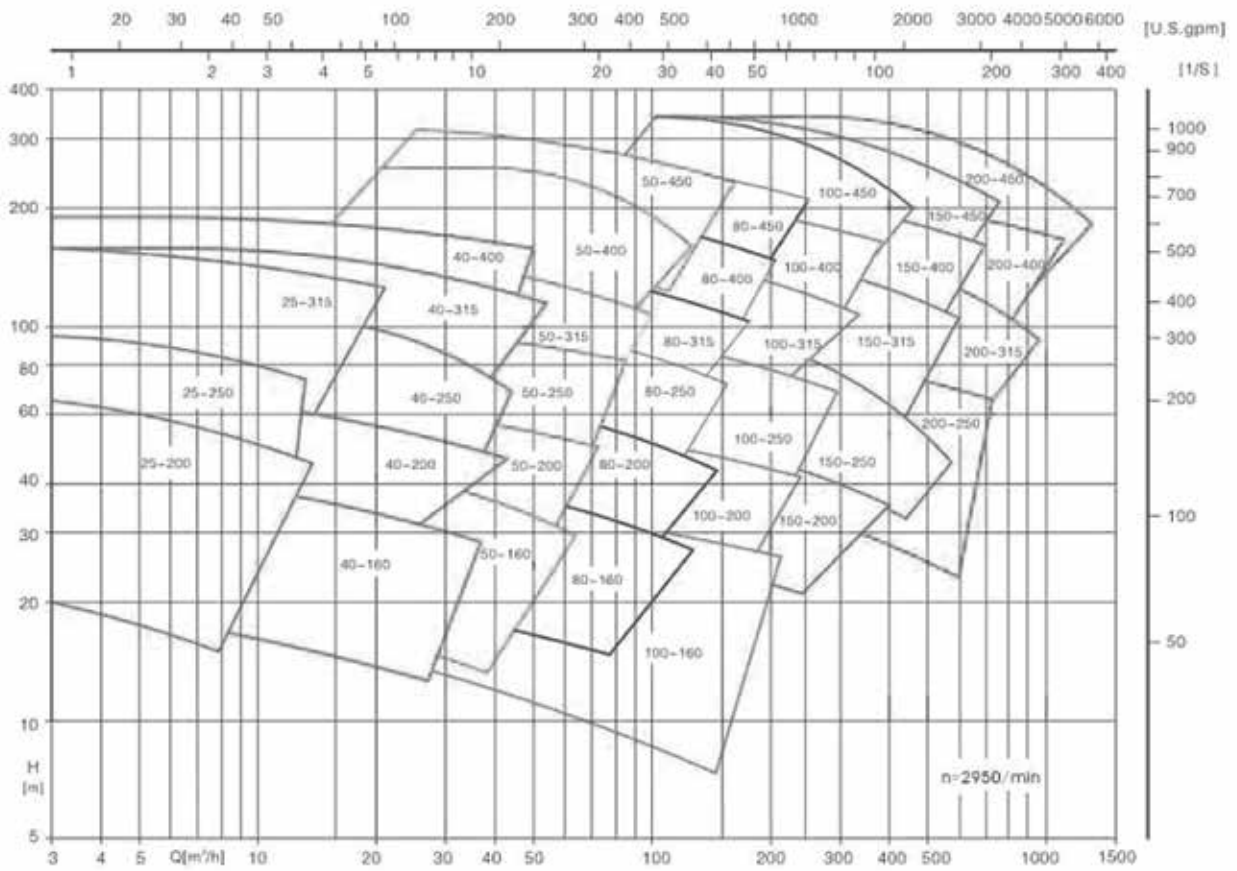
## PC - Sectional drawings



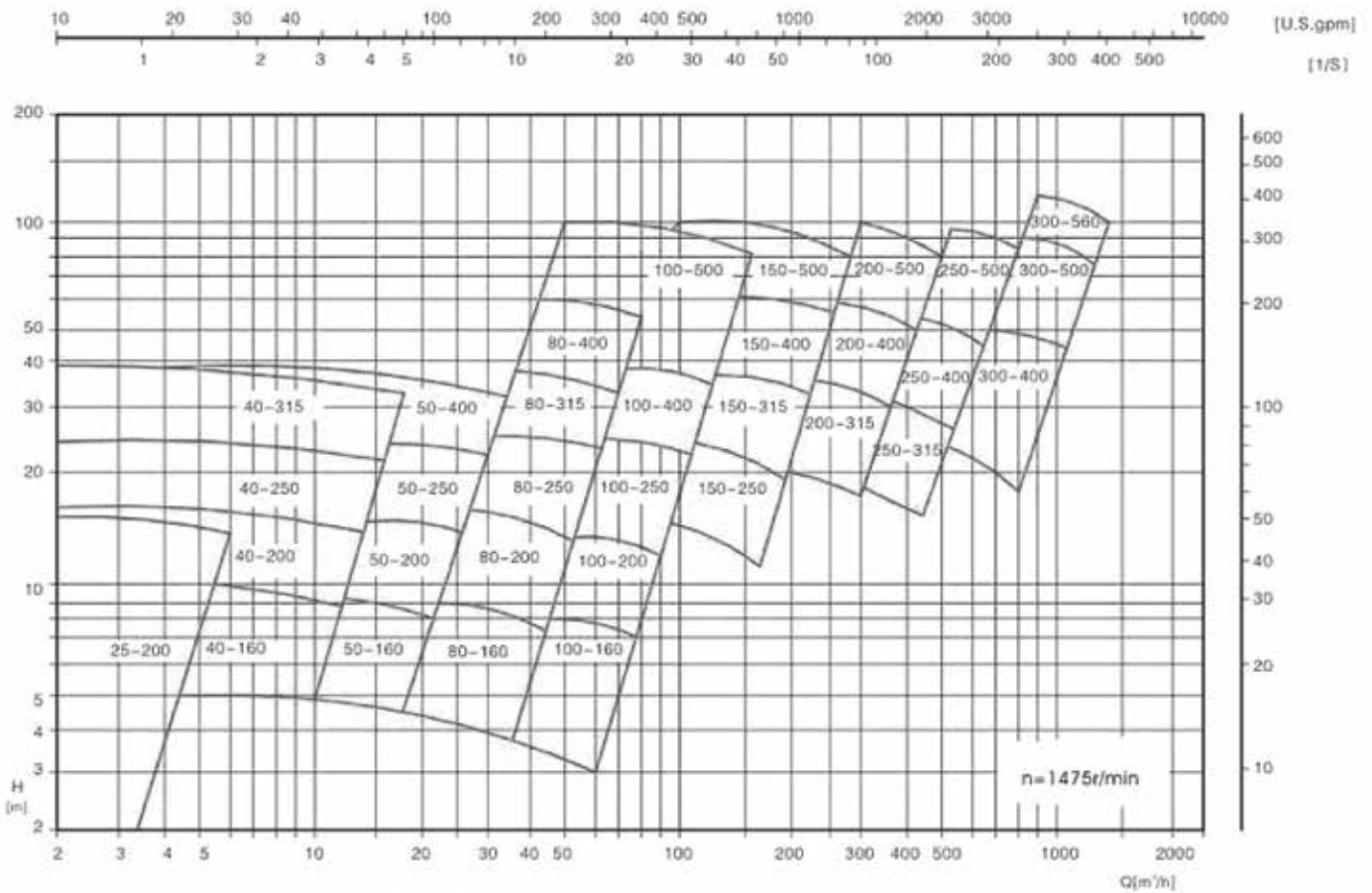
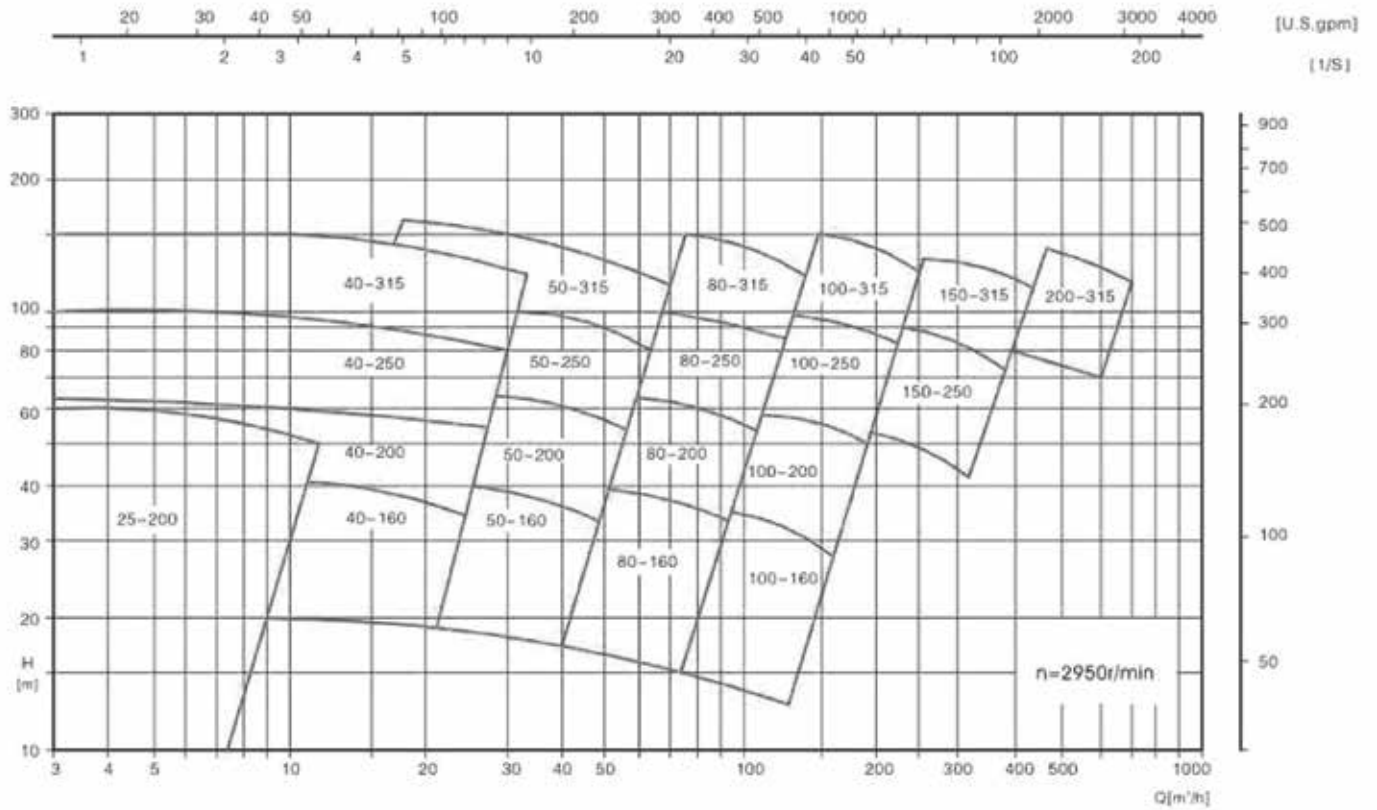
Pos. no.	Description
1	Volute Casing
2	Casing Wear Ring
3	Impeller Wear Ring
4	Flat Gasket
5	O-Ring
6	O-Ring
7	Shaft Sleeve
8	Eye Bolt
9	Bearing
10	Vent Filter
11	Constant Level Oiler
12	Lubricating Ring
13	Bearing Bracket
14	Shaft
15	Deflector

Pos. no.	Description
16	Bearing Cover
17	Supporting Foot
18	Bearing Nut
19	Bearing
20	Circlip
21	Oil Level Indicator
22	Drain Plug
23	Bearing Cover
24	Deflector
25	Sealing Cover
26	Drain Pipe
27	Mechanical Seal
28	Flat Gasket
29	Drain Plug
30	Impeller Nut

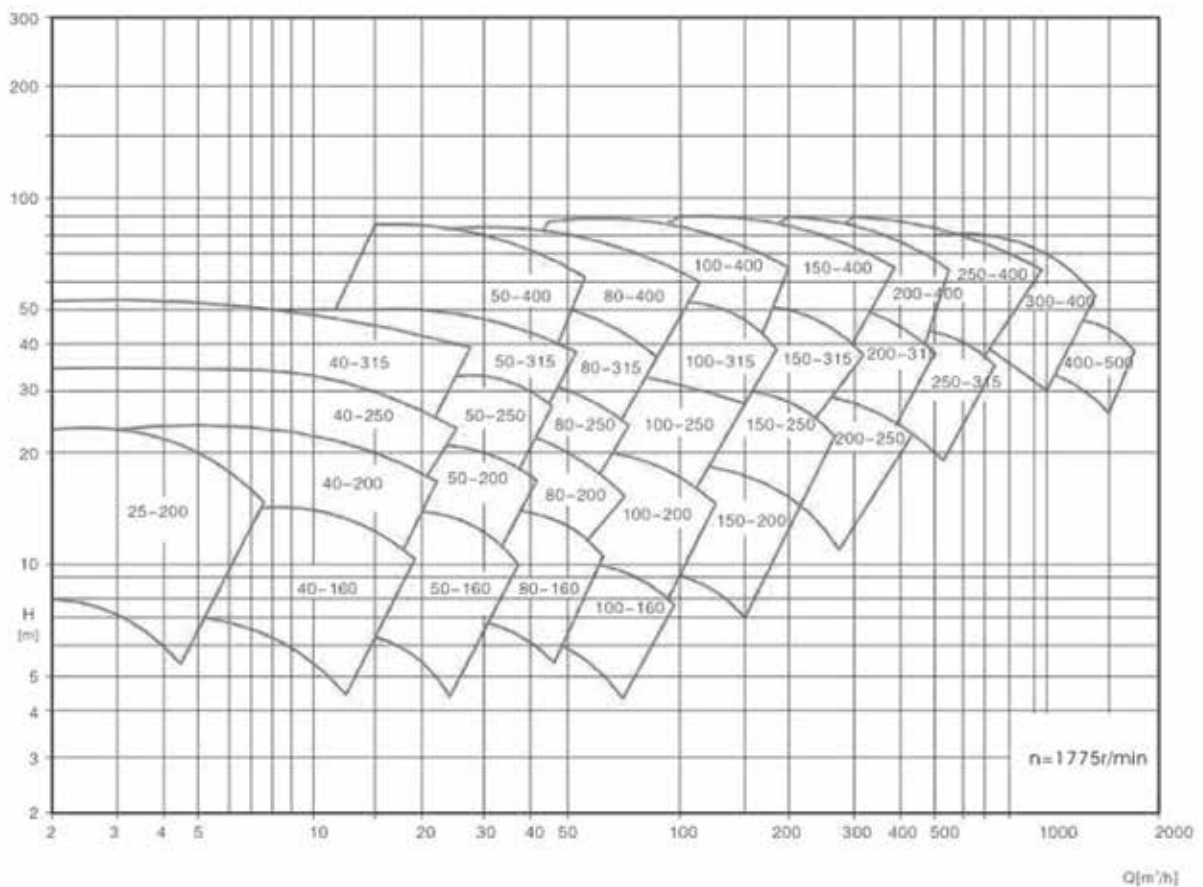
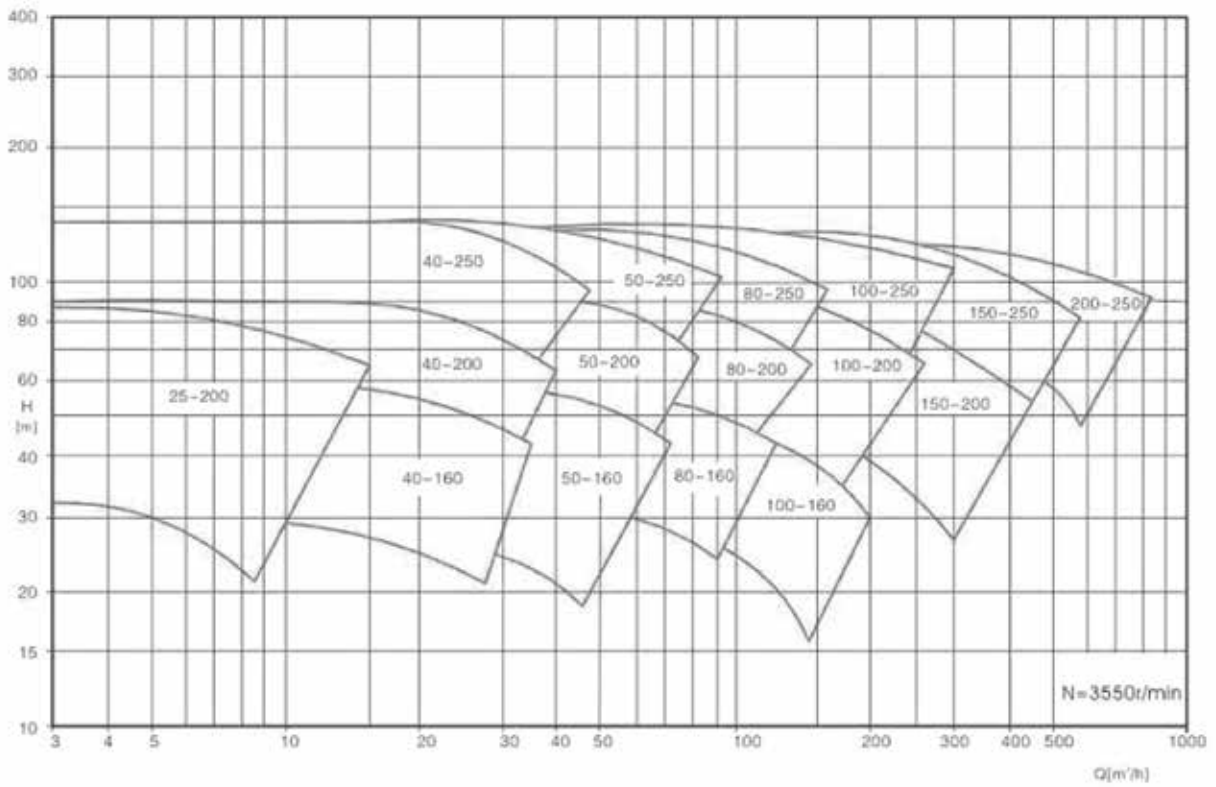
## Performance Chart - 50Hz



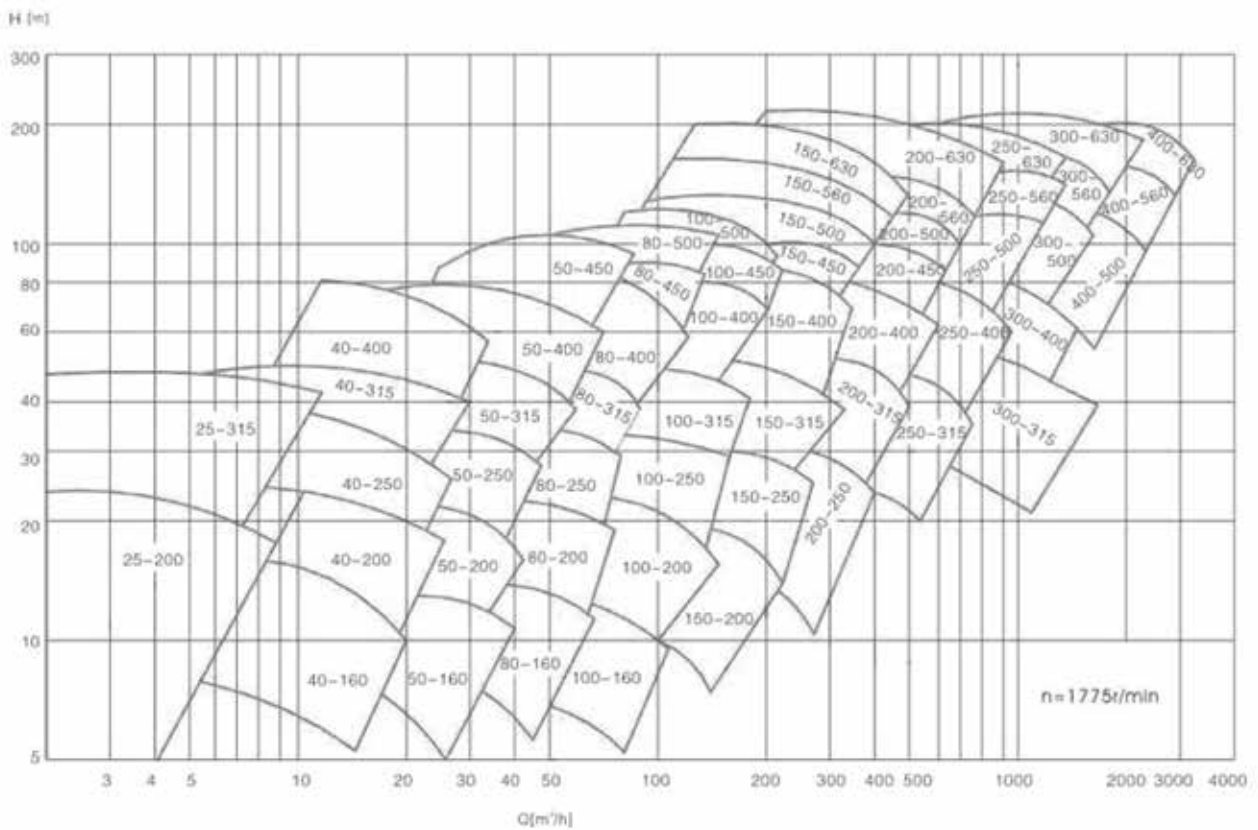
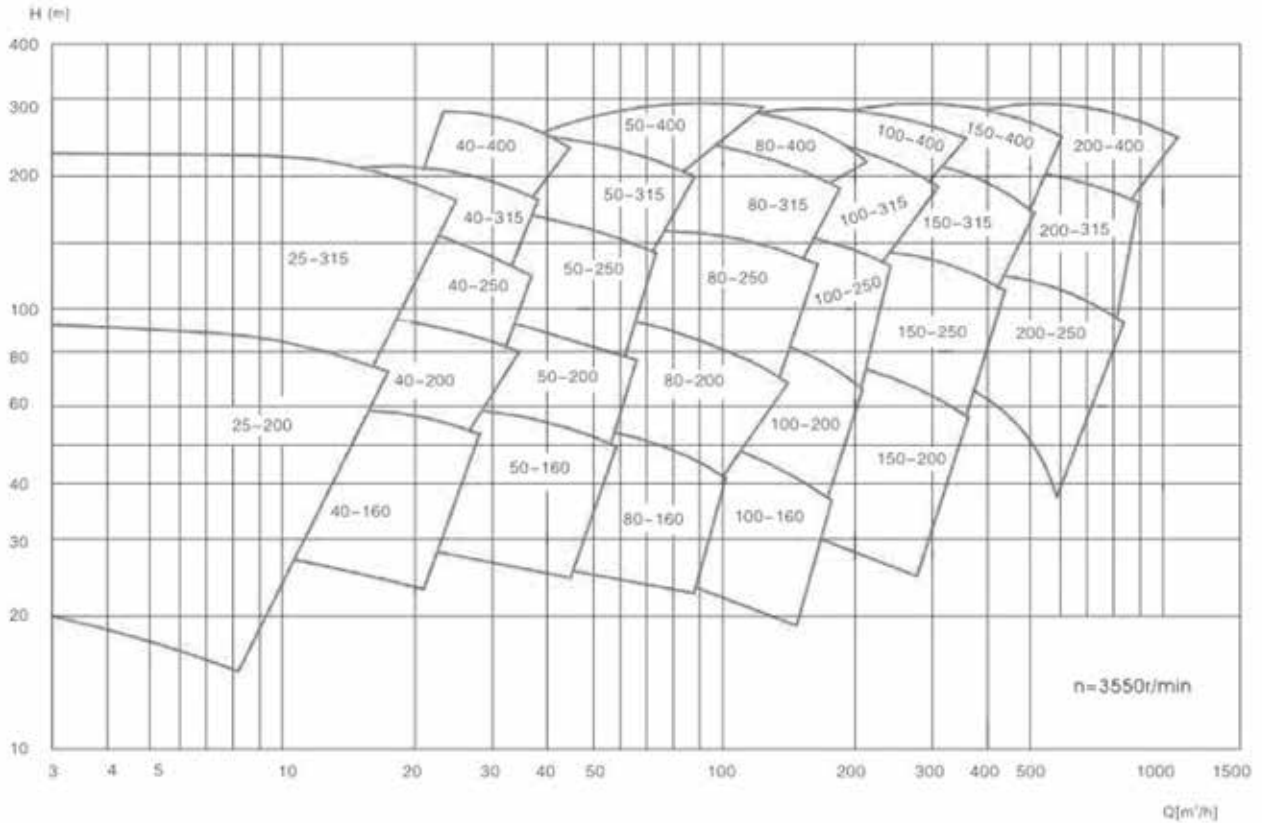
## Performance Chart - 50Hz



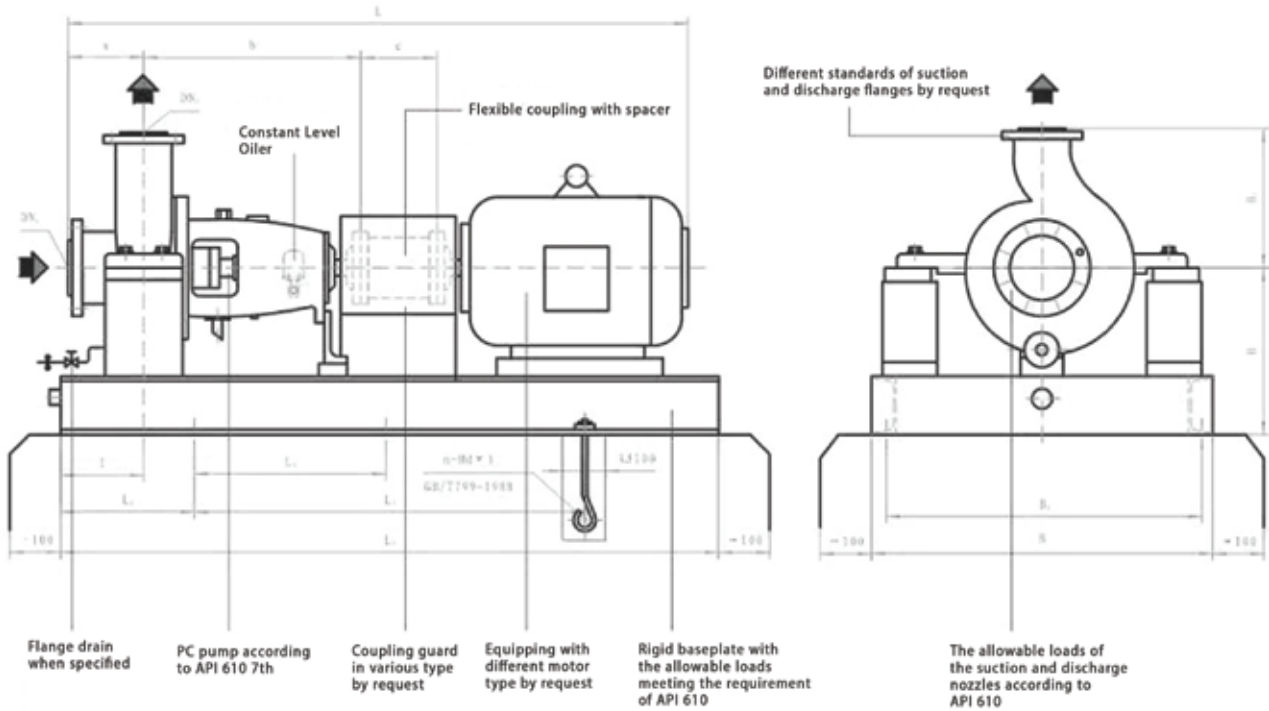
## Performance Chart - 60Hz



## Performance Chart - 60Hz



## PC - Outline Dimension Drawing



**Euroflo Pumps International Pte Ltd**