



**DIPOMPO**  
THE 'PUMP' SOLUTION

# CPS

## Horizontal Split Case Centrifugal Pump



**CPS** Series pumps, are single-stage double suction split case centrifugal pumps designed for applications of clean water or similar liquids without solids in water works, municipal and industrial projects, as well as mines, power plants and agricultural irrigations etc.

The horizontal installation constructed with the suction and discharge nozzles located in the lower part and in right angle to the pump shaft central line, makes it convenient to pull out the rotor after removing the pump cover when maintaining and repairing without disturbing the inlet and outlet piping. Medium contacted parts are selectable from ductile cast iron, cast steel and stainless steel upon request.

## FEATURES

- Standardized design with generalized products series.
- Double volute casing construction perfectly balances the radial forces, ensuring minimal shaft deflection lowered bearing loads.
- Double suction impeller design appropriately balances the axial forces with each impeller balanced statically and dynamically in accordance with ISO1940.
- Flanges are drilled to meet GB, ISO, DIN, BS or ANSI standards.
- Deep groove ball bearings are grease lubricated and sealed for life with optional oil lubrication available upon request.
- Shaft sealing with uncoiled soft packing or single-action unbalanced mechanical seal in accordance with DIN 24960, independent of rotation direction. Balanced mechanical seal shall be applied for operating pressures higher than 16 Bar.

### Model Nomenclature

E.G. CPS300-125-290  
 CPS — Split Case Centrifugal Pump  
 300 — Suction Dia. (mm)  
 125 — Discharge Dia. (mm)  
 290 — Impeller DN (mm)

### Materials of Construction

#### GB

#### DIN

#### *Volute Casing & Cover*

Cast iron

HT250

GG-25

Ductile Cast Iron

QT400-18

GGG-40

Cast Steel

ZG230-450

GS-C25

#### *Impeller*

Cast iron

HT250

GG-25

Bronze

ZCuSn10Si2

G-CUSn10Zn

Brass

ZCuSn16Si4

G-CuZn15Si4

Stainless Steel

ZG1Cr18Ni12Mo2Ti

1.4581

#### *Shaft*

Carbon Steel

45#

C45N

Cr Steel

2Cr13

1.4021

#### *Casing Wear Ring*

Cast iron

HT250

GG-25

Bronze

ZCuSn10Si2

G-CUSn10Zn

Brass

ZCuSn16Si4

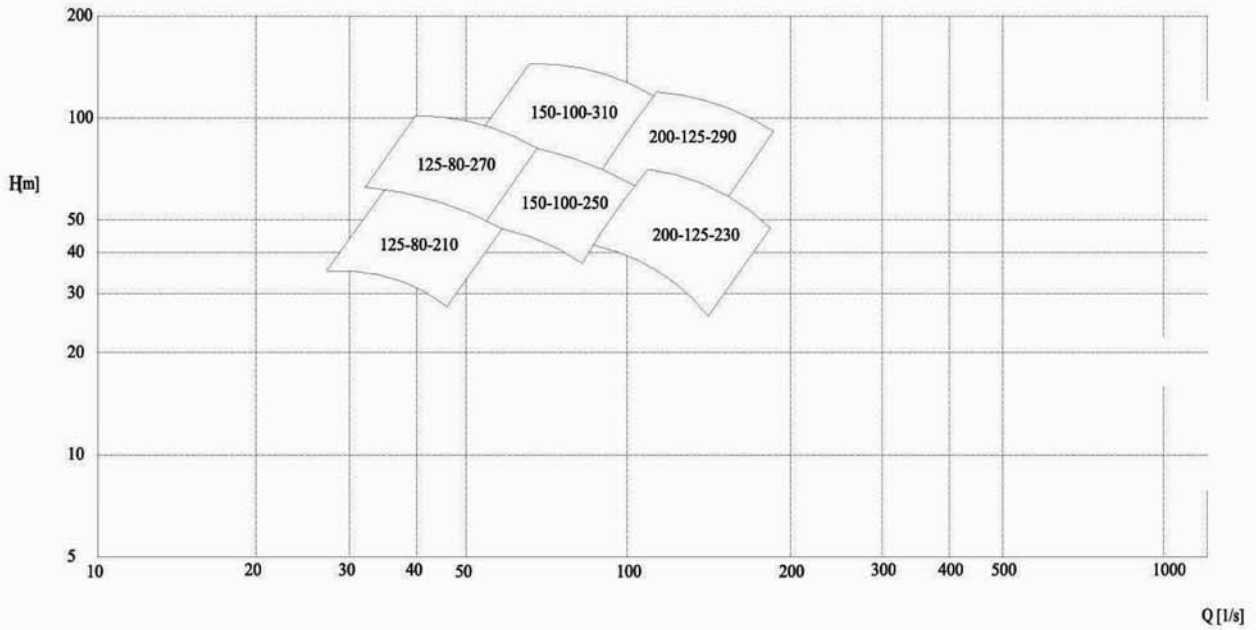
G-CuZn15Si4

### Performance Data

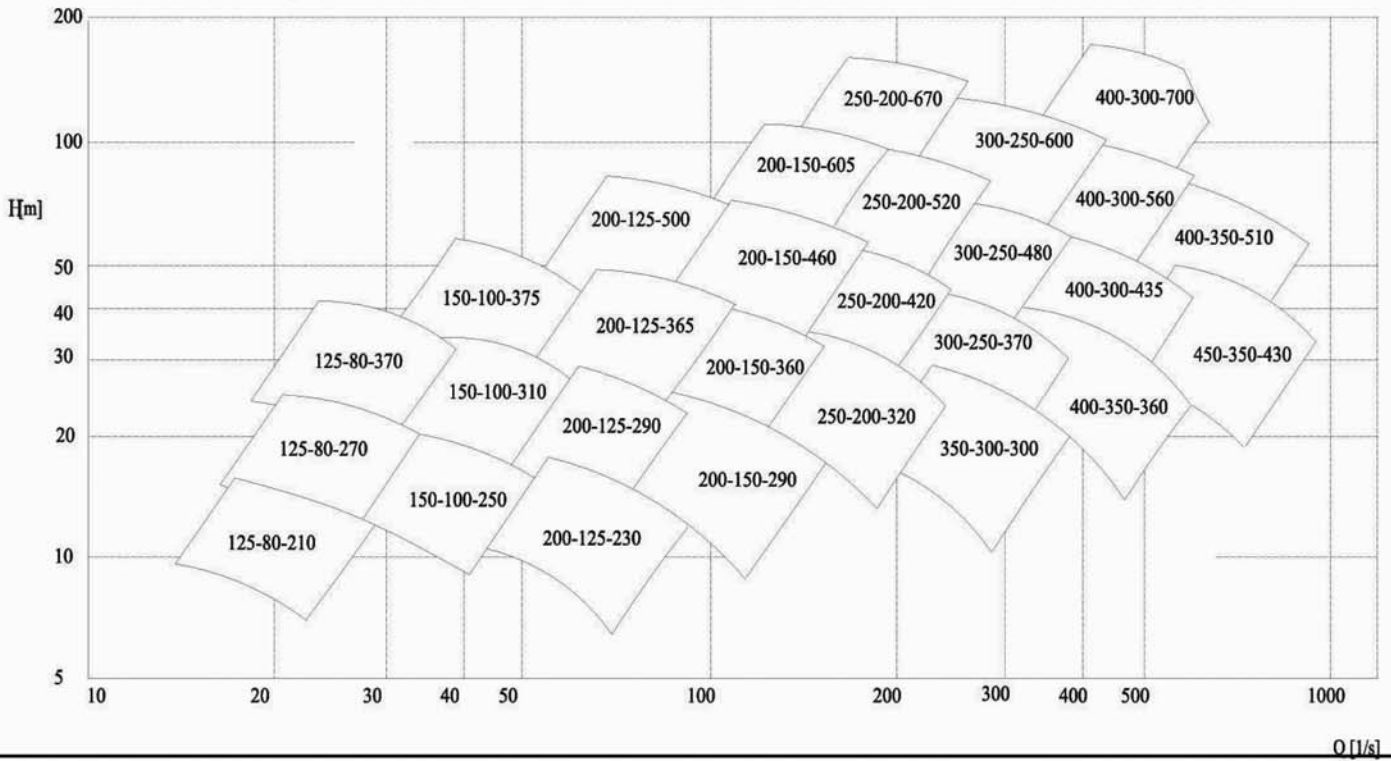
Pump Size: DN 80 ~ 800  
 Flow Range: Q up to 2800l/s  
 Head Range: H up to 220m  
 Operating Pressure: P up to 25 Bar  
 Liquid Temperature: t up to 105°C

**Family Curves 50Hz**

**n=2900 rpm**



**n = 1450rpm**



Family Curves 50Hz

n=980 rpm / 740 rpm

