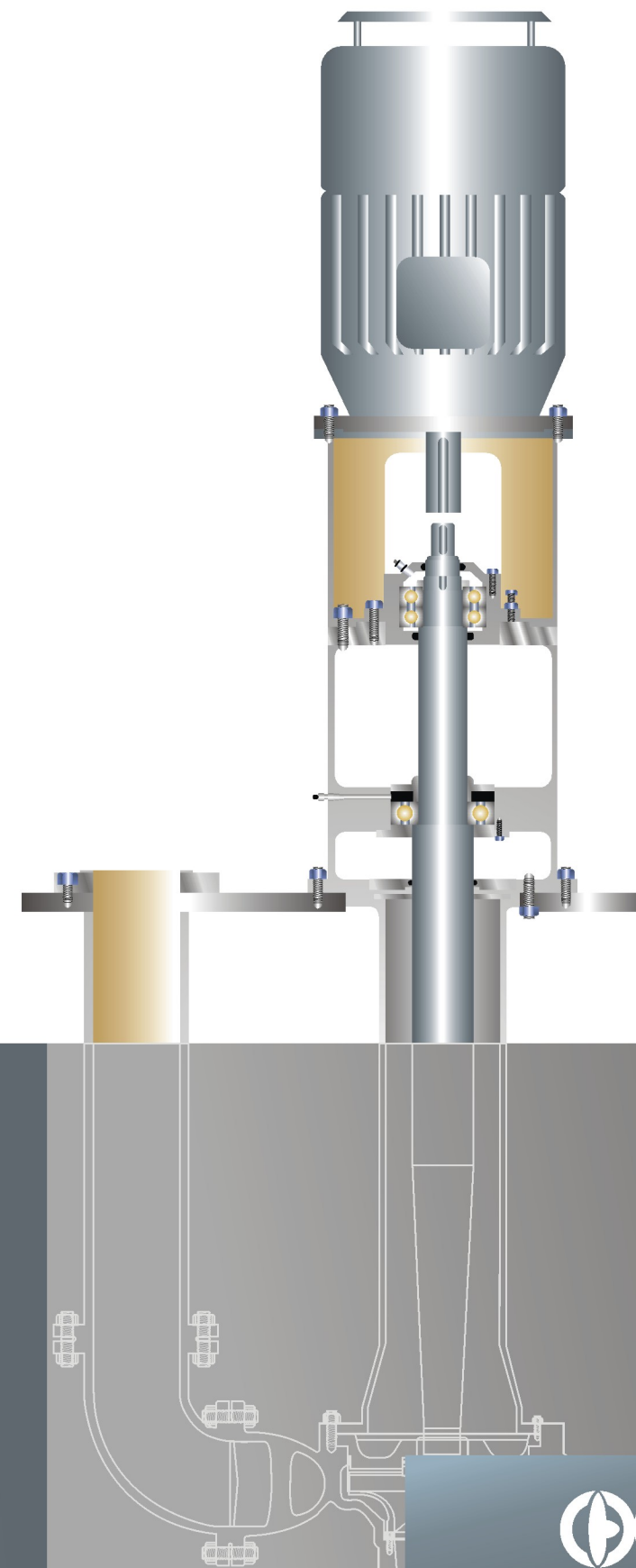
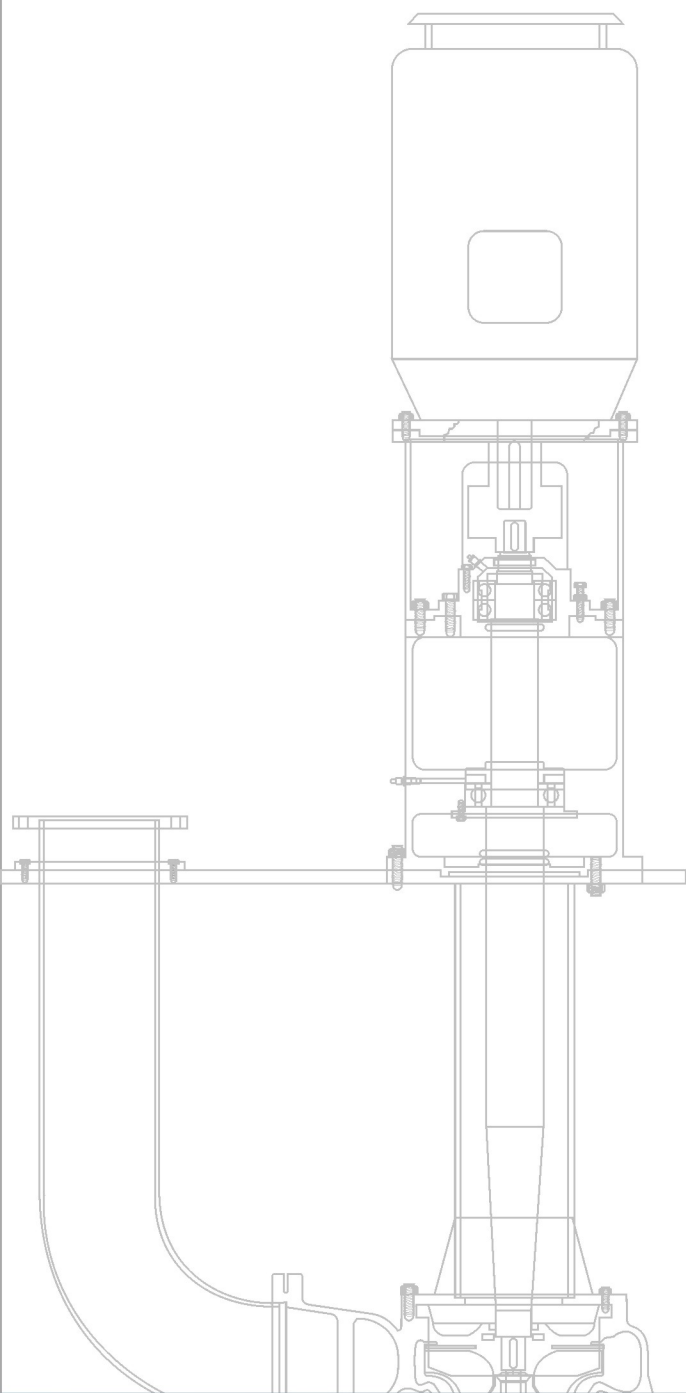


# TG CSV



Vertical Single Stage  
Cantilever Sump Pump  
acc. to API 610 10th Ed  
code VS 5



**PT TORISHIMA GUNA ENGINEERING**

HEAD OFFICE : Jl. Rawa Sumur Timur No. 1 Pulugadung Industrial Estate,  
Jakarta 13930 - Indonesia. Phone: +62 21 460 3963, Fax: +62 21 460 3937  
Email : tge-info@torishima-guna.co.id

TURBOMACHINERY WORKSHOP : Jl. Selayar II Blok H-12, Kawasan Industri MM2100  
Telajung, Cikarang Barat Bekasi 17845, West Java - Indonesia.  
Phone: +62 21 2957 6955, Fax: +62 21 2957 6956

@ tge.id | www.torishimaguna.com



## GENERAL

TG CSV series is vertically suspended cantilever sump pump, designed according to API610 10th Ed (code VS 5). It's single stage, single suction with overhung construction.

There are 2 (two) type :

- **L type ( Standard )**

Capacity	Q	2 ~ 400 m <sup>3</sup> /hr
Total head	H	3 ~ 60 m
Pressure	P	Up to 2.5 MPa
Temperature	T	-20 to +200 °C

- **N type ( Sulfuric acid application )**

Capacity	Q	10 ~ 1,200 m <sup>3</sup> /hr
Total head	H	15 ~ 40 m
Pressure	P	Up to 2.5 MPa
Temperature	T	-20 to +110 °C



## NOMENCLATURE

Ex. TG CSV 80 - 315 C - II - 4

TG CSV	:	Series name
80-315	:	Pump size
C	:	Code for impeller diameter
II	:	Code for bearing frame
4	:	The number for motor electrode

## SERVICES

Industrial Sump Pump Wastes  
Sulfuric Acid  
Inorganic & Organics Acids  
Alkaline Solvent  
Salt Solvent  
Phosphor Compound Fertilizer

## FEATURES

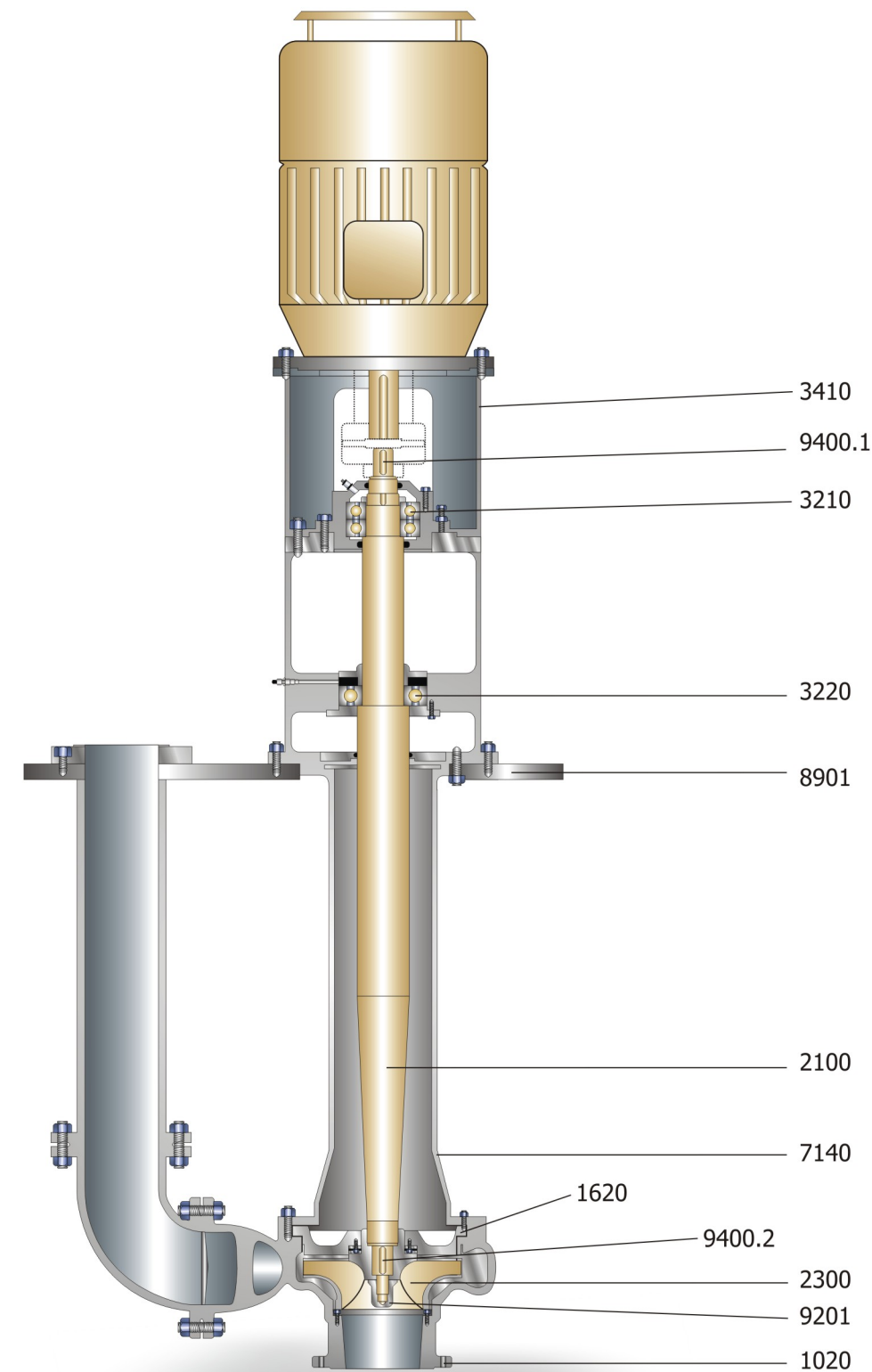
Cantilever Structure	:	One-piece rigid shaft, no sliding bearing in submerged ensure reliability and solves the problem of shaft bent. When the pump inserting depth can't meet the demand, it could increase length of suction pipe.
Casing	:	For size 80 mm and above, it is double volute design that can balance the radial thrust and give steady, reliable pump operation.
Good Hydraulic Design	:	The pump performance is stable, high efficiency and energy saving.
Rotor Parts	:	External adjustment easily.

## SECTIONAL DRAWING

# N Type

### List of Component

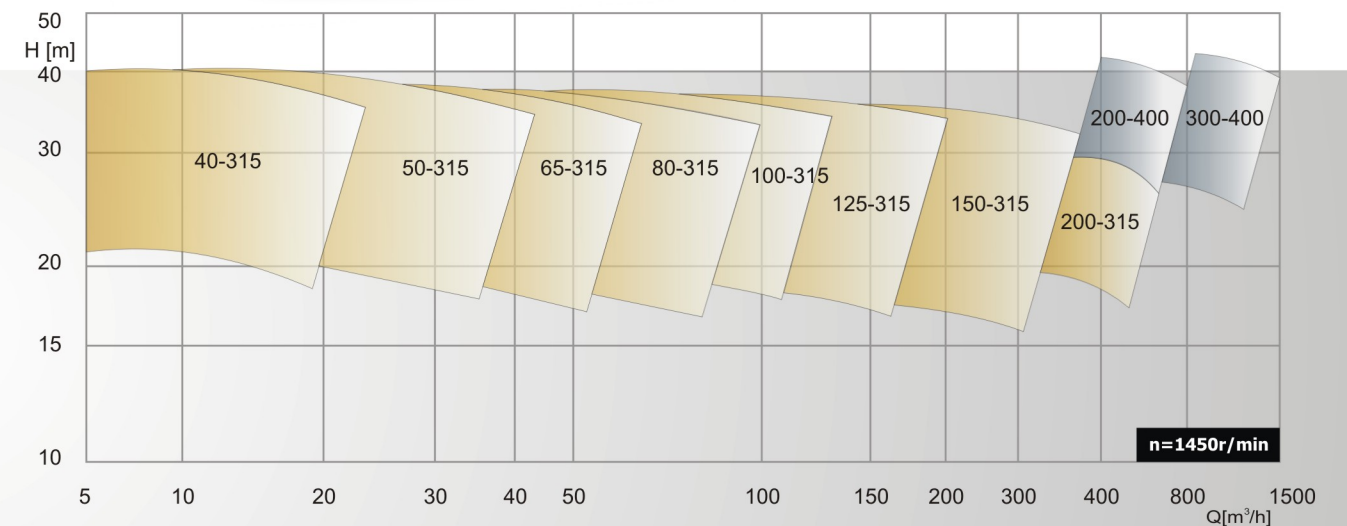
Part No.	Disignation
1020	Volute Casing
1620	Pump Cover
2100	Shaft
2300	Impeller
3210	Ball Bearing
3220	Ball Bearing
3410	Drive Stool
7140	Pipe Section
8901	Baseplate
9201	Impeller Nut
9400.1	Key
9400.2	Key



\* Typical Drawing Only

## SELECTION CHART

50 Hz

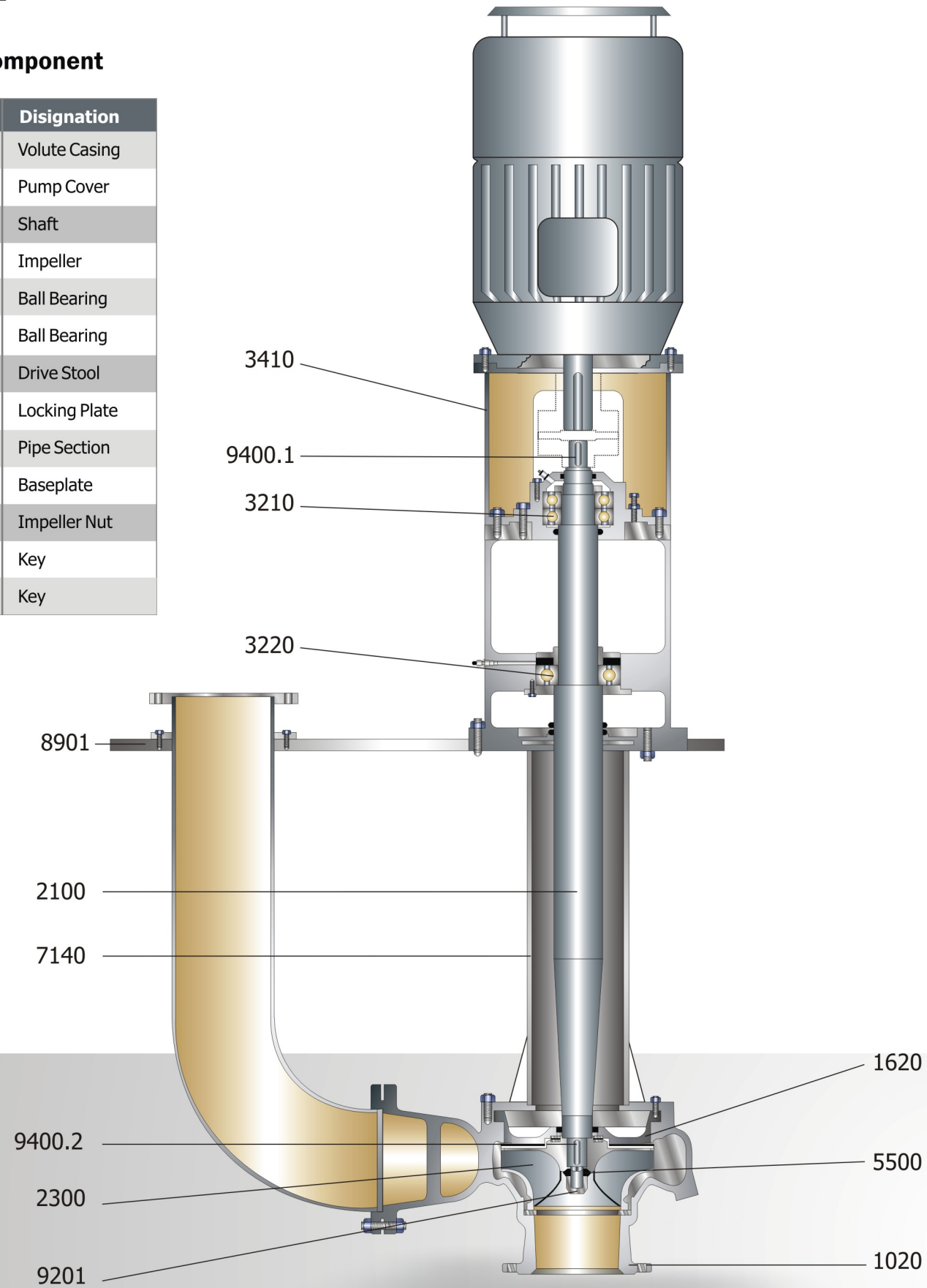


SECTIONAL  
DRAWING

L Type

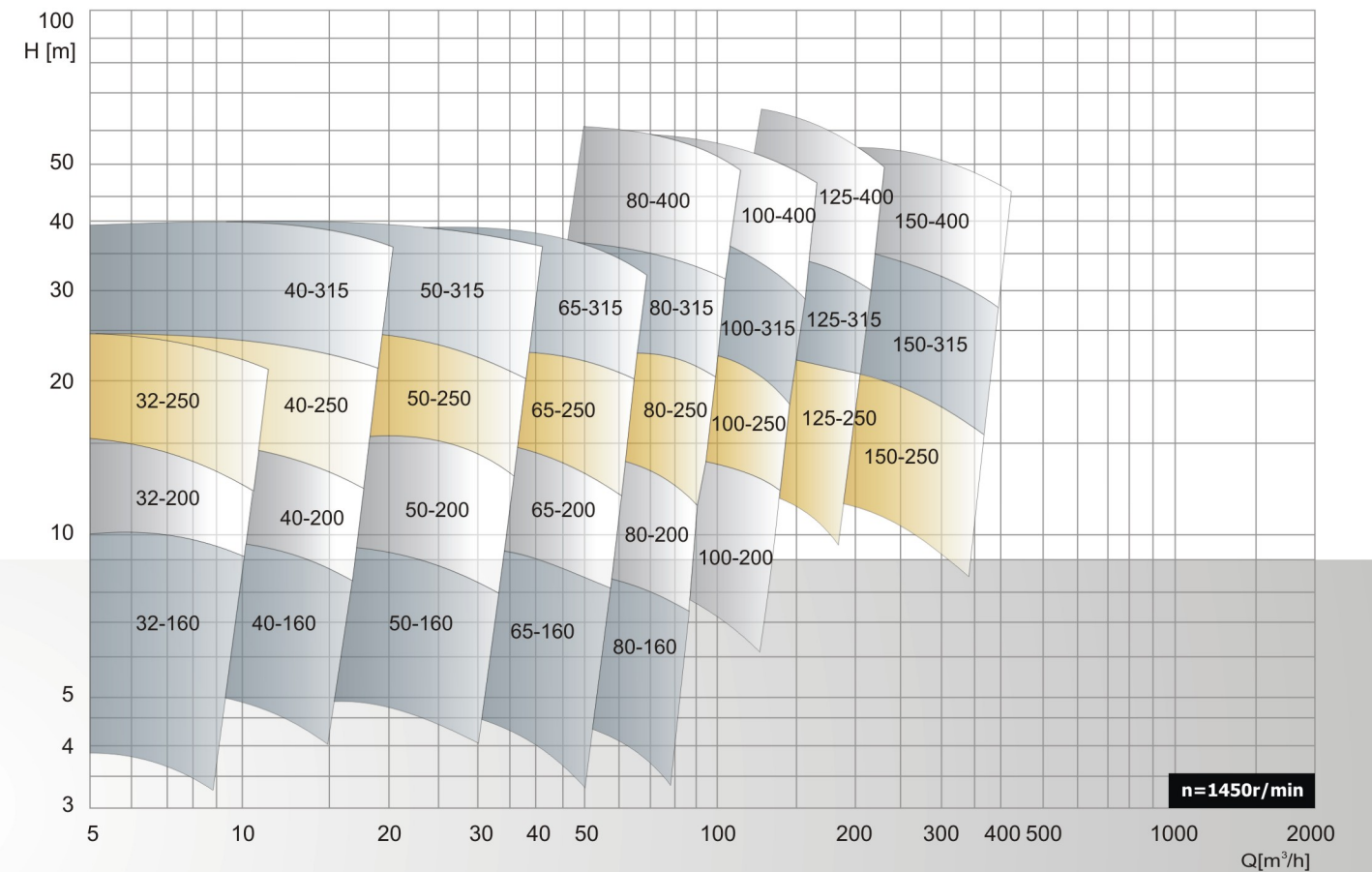
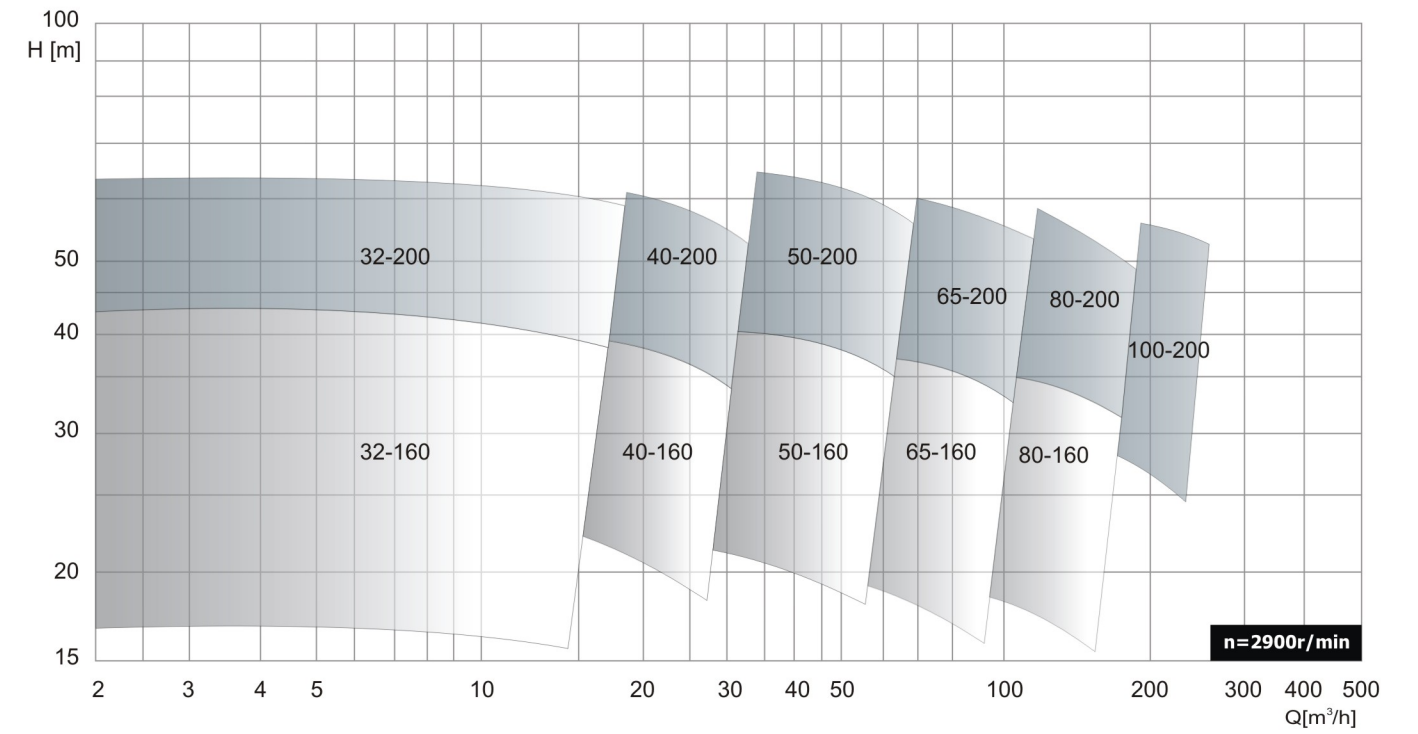
List of Component

Part No.	Disignation
1020	Volute Casing
1620	Pump Cover
2100	Shaft
2300	Impeller
3210	Ball Bearing
3220	Ball Bearing
3410	Drive Stool
5500	Locking Plate
7140	Pipe Section
8901	Baseplate
9201	Impeller Nut
9400.1	Key
9400.2	Key



SELECTION  
C H A R T  
L T y p e

50 Hz



\* Typical Drawing Only