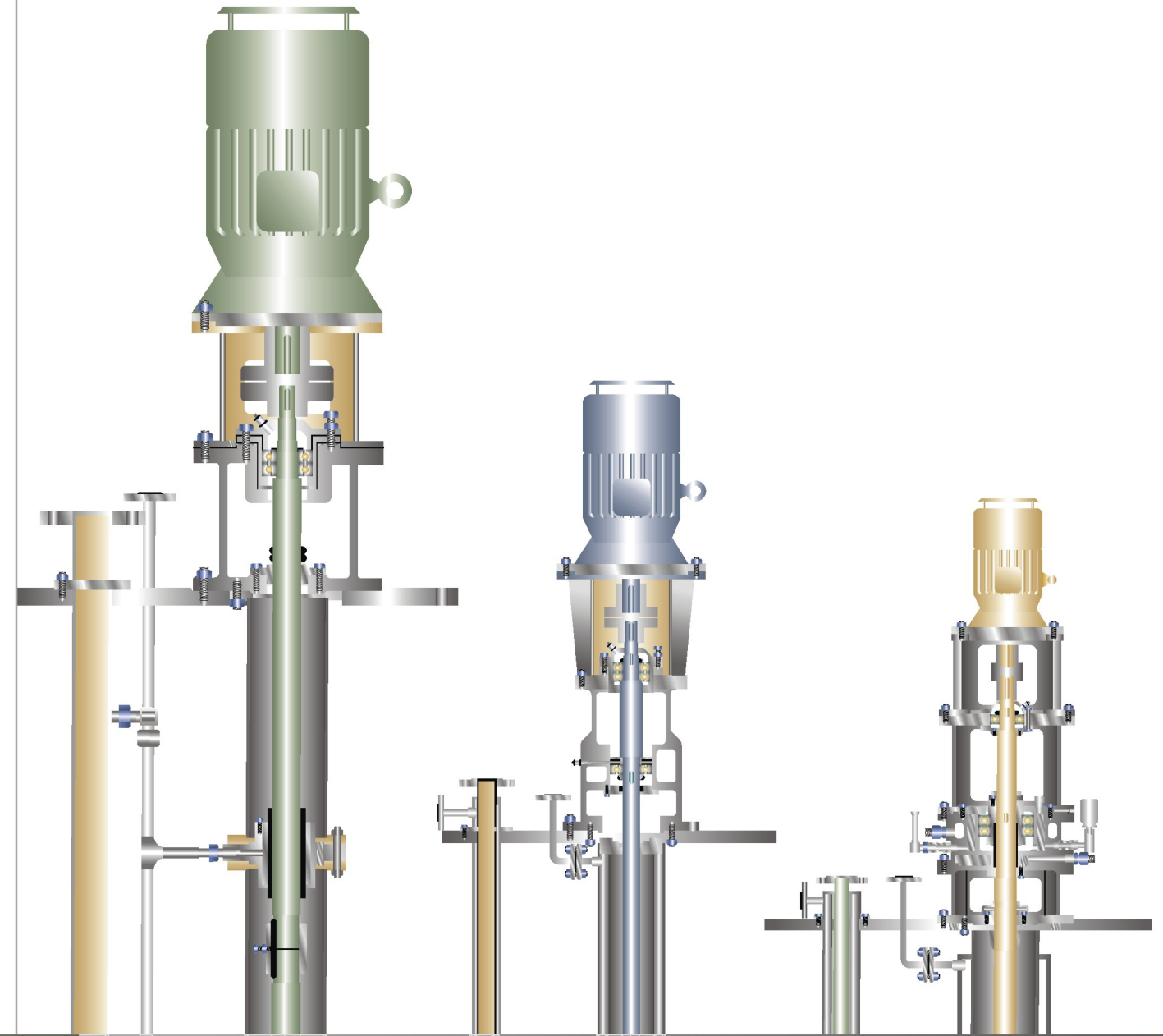
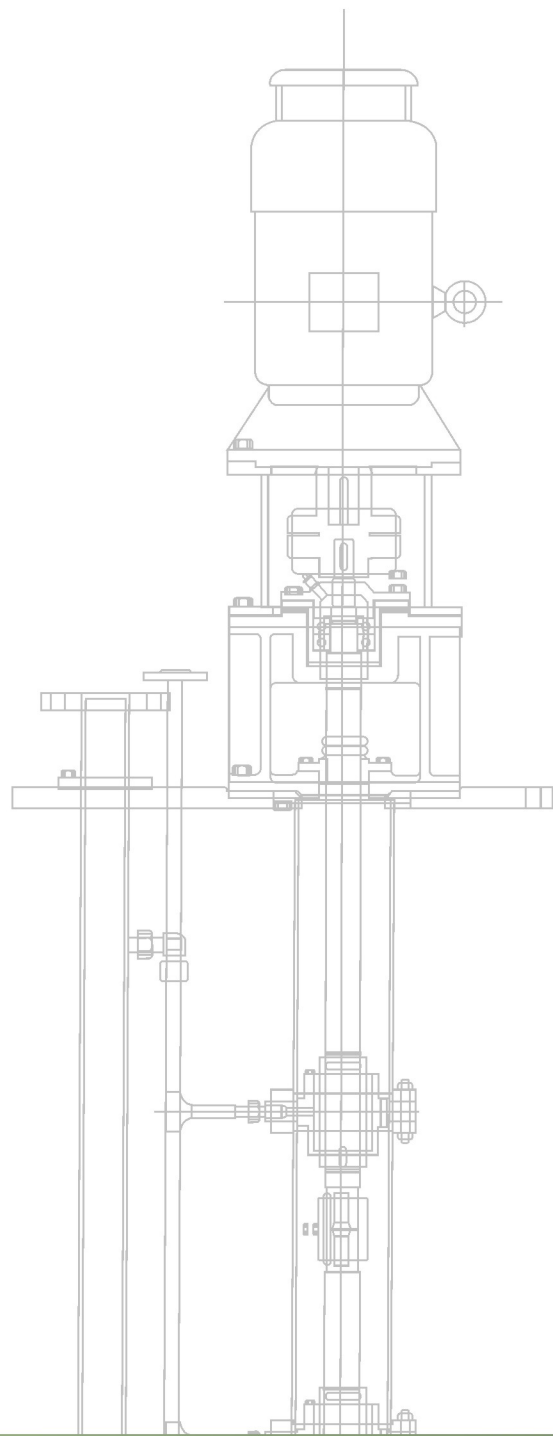


TG CSTV



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

Vertical Single Case
Volute Line-shaft Sump Pump
acc. to API 610 10th Ed
code VS 4



GENERAL

TG CSTV series are vertically suspended, single casing volute line-shaft driven sump pump, designed acc. to API610 10th Ed (code VS 4).

There are 3 (three) type :

- **H type (Standard Pump)**

Capacity	Q	2 ~ 400 m ³ /hr
Total head	H	4 ~ 100 m
Pressure	P	Up to 2.5 MPa
Temperature	T	-20 to +120 °C
Discharge Size	DN	32 ~ 150 mm

- **L type (Sulphur Pump)**

Capacity	Q	2 ~ 200 m ³ /hr
Total head	H	4 ~ 160 m
Pressure	P	Up to 2.5 MPa
Temperature	T	Up to 300 °C
Discharge Size	DN	32 ~ 80 mm

- **R type (High Temperature pump)**

Capacity	Q	2 ~ 500 m ³ /hr
Total head	H	4 ~ 250 m
Pressure	P	Up to 2.5 MPa
Temperature	T	Up to 450 °C
Discharge Size	DN	32 ~ 200 mm

APPLICATION

Petrochemical Plant
Chemical Plant
Paper Making Plant
Cement Plant
Steel Mills
Power Plant

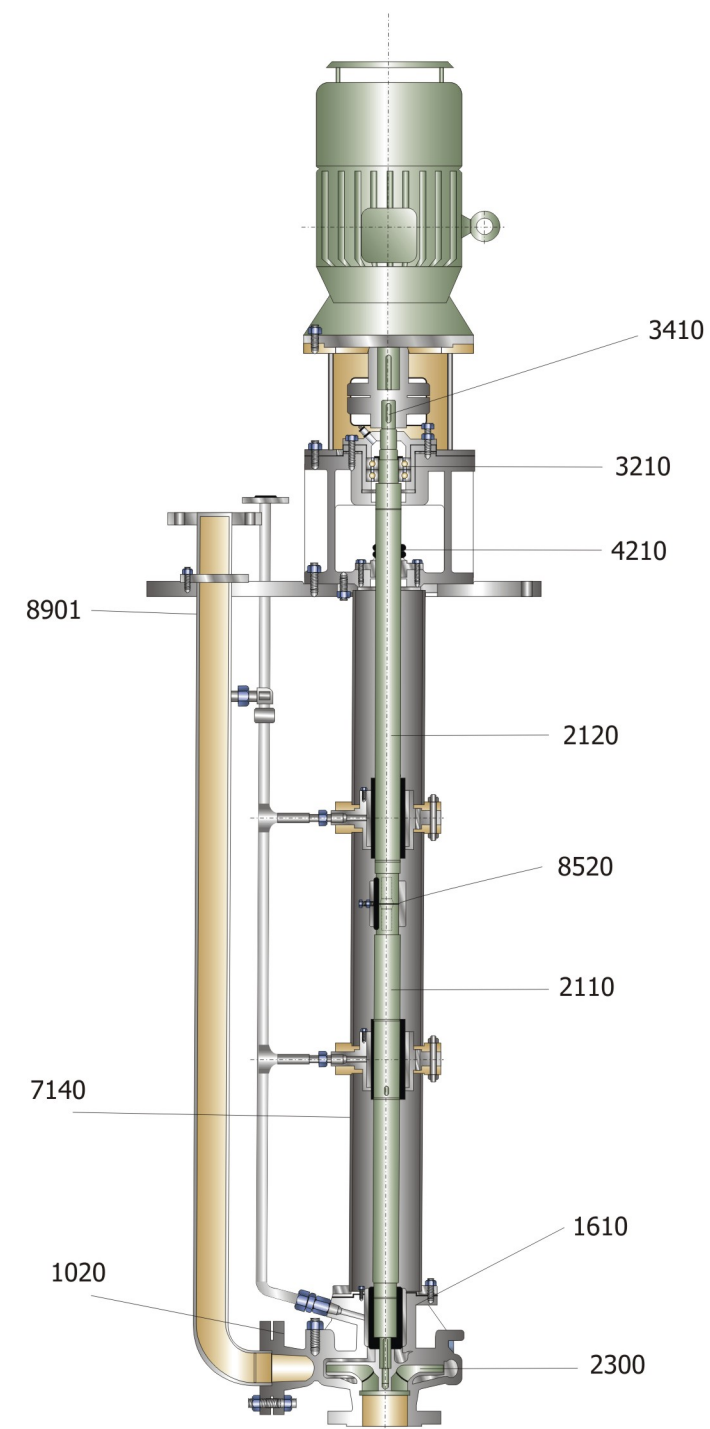
NOMENCLATURE

Ex. TG CSTV 32 - 200 H

TG CSTV	:	Series name
32	:	Discharge size, mm
200	:	Nominal impeller diameter, mm
H	:	Standard type

FEATURES

Casing	:	For size 80 mm and above is designed for double volute to balance the radial stress.
Impeller	:	Immersed into the liquid when the pump starts up. Exhausted gas will be brawn up for its easy start.
Axial Thrust	:	Balanced by auxiliary van or balance hole.
Bearing	:	Pump shaft is supported by rolling bearing and sliding bearing. The support point is designed reasonably and the pump operation speed is less than its critical speed for. Either self-lubrication or external lubrication can be selected according to cleaning degree of the medium.



SECTIONAL DRAWING

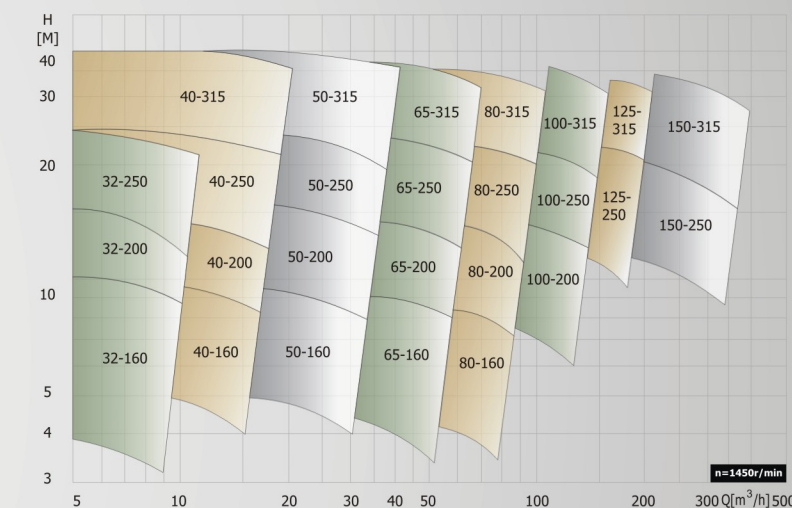
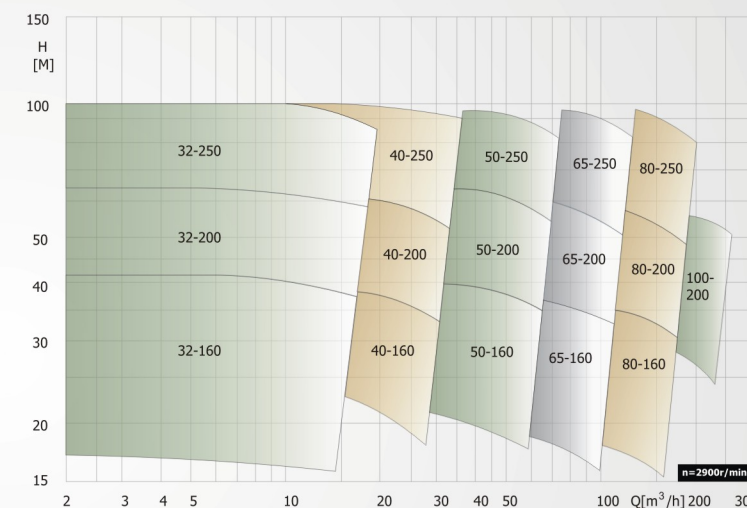
H Type (Standard Pump)

List of Component

Part No.	Disignation
1020	Volute Casing
1610	Pump Cover
2110	Pump Shaft
2120	Line Shaft
2300	Impeller
3210	Ball Bearing
3410	Drive Stool
4210	V-Ring
7140	Section
8520	Line Shaft Coupling
8901	Baseplate

SELECTION CHART

50 Hz



SECTIONAL DRAWING

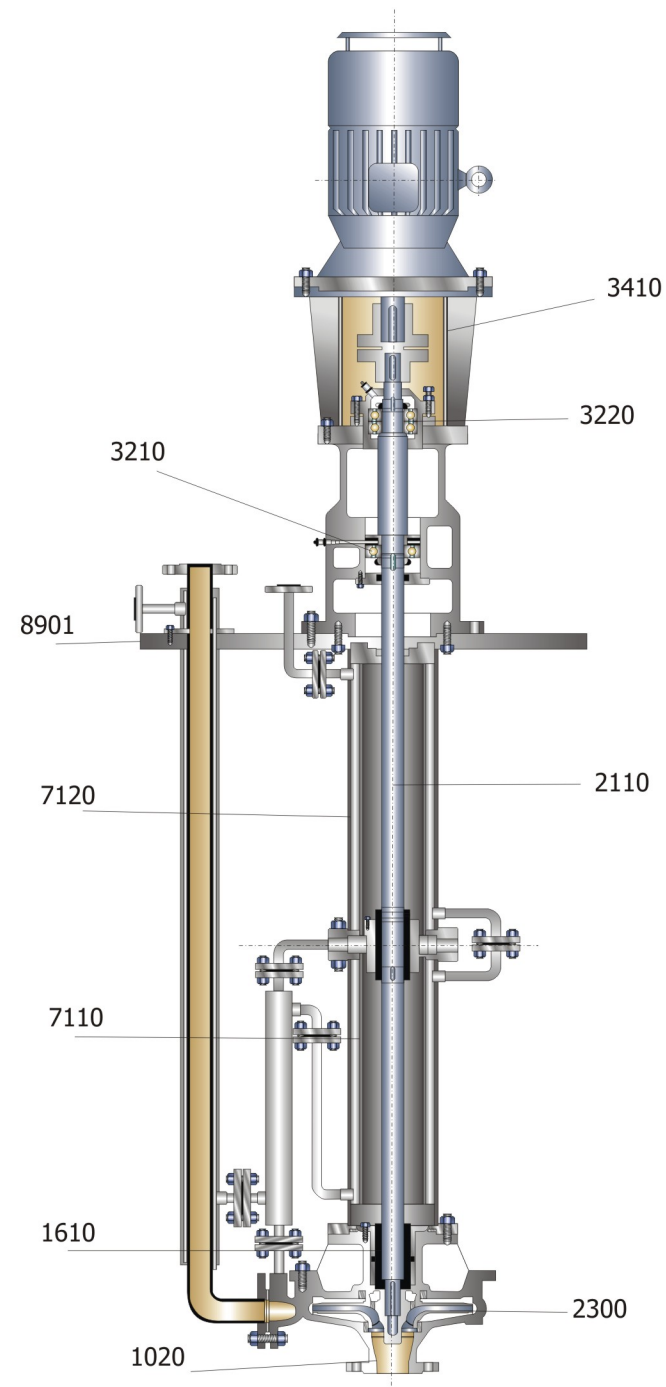
L Type (Sulphur Pump)

List of Component

Part No.	Disignation
1020	Volute
1610	Casing
2110	Shaft
2300	Impeller
3210	Bearing
3220	Bearing
3410	Drive Stool
7110	Support Piping
7120	Support Piping
8901	Baseplate

SELECTION CHART

50 Hz



SECTIONAL DRAWING

R Type (High Temperature Pump)

List of Component

Part No.	Disignation
1020	Volute
1610	Casing
2110	Shaft
2300	Impeller
7110	Support Piping
7120	Support Piping

SELECTION CHART

50 Hz

