

Vertical Multi-stage Can-Type

VCM

energy API CE



Applications

- Pipeline boosting
- Refinery blending
- Ammonia transfer
- Condensate
- LNG transfer

Feature

- ✓ In-line suction and discharge simplifies installation
- ✓ Optional suction in can for flexibility
- ✓ Allow efficient operation at any NPSHr. Available
- ✓ API standard 610 (API Code : VS6)

Ratings

Capacity	Up to 100 m ³ /min (26,417 US GPM)
Head	Up to 500 m (1,640 ft)
Discharge Pressure	Up to 60 kgf/cm ² G (853 PSIG)
Hydrostatic test Pressure	Up to 90 kgf/cm ² G (1,280 PSIG)
Max. allowable Speed	Up to 3,600 min ⁻¹
Temperature	~180°C (~ 356°F)
Flanges	ANSI (other standards also available)
Nozzles Location	Bottom Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal
Materials	According to API 610 Material code

*API610 latest edition is available on request

Material

BOWL	GCD450 / SCPH2 / SSC13
IMPELLER	SSC13 / SSC14
SHAFT	STS420 / SCM440

Specification

Spec Model	Size	Capacity (m ³ /min)	Head (m)	Power (kW)	Revolution (rpm)
101~110	50×40	0.12	11.5~115	0.75~115	3500
201~208	50×40	0.25	18~144	2.2~15	3500
301~308	80×40	0.40	18~143	3.7~22	3500
401~408	80×50	0.60	26~208	5.5~37	3500
501~508	100×80	1.10	26~208	11~75	3500
601~609	150×100	2.0	30~180	15~90	3500
701~706	200×150	3.5	16~105	15~90	1750

Note: *. The content of this catalogue is to change without notice.

Construction



• Casing

-Vertically suspended, Double-Casing Diffuser type pumps. Hydraulically efficient casing design. Based on many years experience, minimizes pump friction losses.



• Impeller

-Enclosed type impeller. It is easy to replace Casing wearing and Impeller wearing.



• Bearing

-Thrust bearings are 'Spherical thrust bearings' Having ample capacity to withstand axial thrust loads. The Bearings are oil-lubricated.



• Mechanical Seal

-Cartridge type. Products of all Mechanical Seal Makers are available.

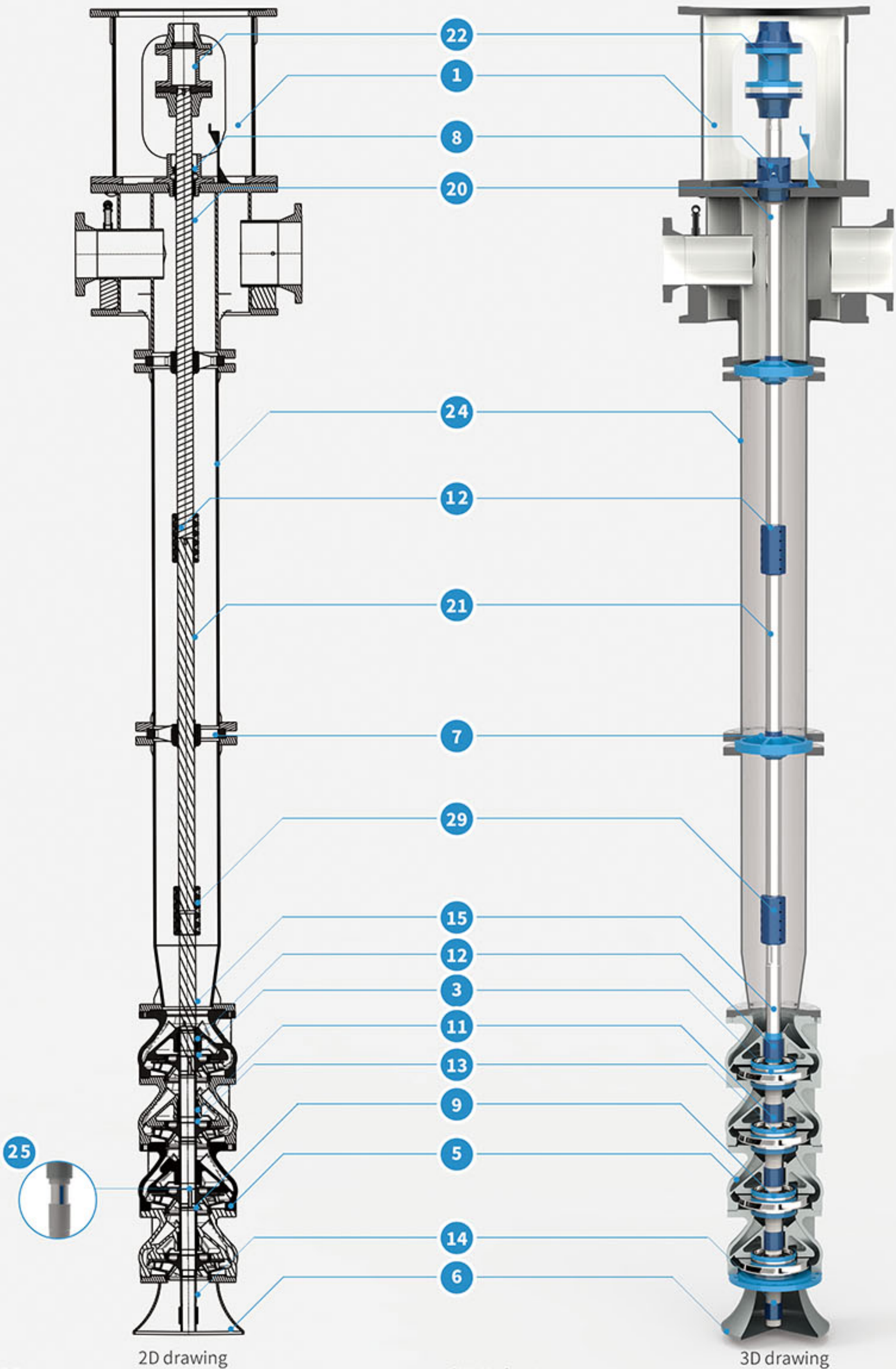


• Intermediate Bearing

-Bearing materials, composition of which is determined according to the liquid handled, is retained inside cast casings. Number of bearings is determined by critical pump speed and shaft length.

Model. VCM

● Parts List and Materials



2D drawing

3D drawing

Model. VCM

● Parts List

No	Name of part	Material	No	Name of part	Material
1	Discharge Head	SPPS38	16	Sleeve	STS304
2	Suction Can	SPPS38	18	Packing Gland	BC6
3	Impeller	SSC1	19	Packing	TEFLON
4	Inducer	SSC1	20	Head Shaft	STS304
5	Bowl	SCPH2	21	Pump Shaft	STS304
6	Suction Cover	SCPH2	22	Coupling	SM45C
7	Bearing Retainer	SCPH2	23	Packing Sleeve	STS304
8	Stuffing Box	SCPH2	24	Column Pipe	SPPS38
9	Casing Ring	STS420J2	25	Impeller & Inducer Key	STS304
10	Impeller Ring	STS420J2	26	O-Ring	NBR
11	Bearing Bush	CARBON	27	O-Ring	NBR
12	Bearing Bush	CARBON	28	Gasket	NON ASBESTOR
13	Sleeve	STS304	29	Shaft Coupling	STS304
14	Sleeve	STS304	30	Bearing Bush	CARBON
15	Discharge Casing	SCPH2			

Note : Other Materials are available on request

● Photo Resources

