

The **SILI CLZ series pump** is a single stage, single suction, vertical centrifugal marine pump, especially with **built-in self-priming device**. (No need for extra water ring or air ejector vacuum pump).

- **Built-in self-priming device.**
- Compact structure.
- Inline flange connection type.
- Easy installation/service.

Design Features

High quality mechanical seals(carbon/ceramic/stainless steel), carbon/ceramics/stainless steel material.

Bronze pump casing&body, impellers and stainless steel shaft as standard for sea water.

Mouting system: shaft supported by radial and thrust ball bearings either grease or self-lubricated.

Flanges are usually in Chinese GB standard, however other standard flanges in EN(DIN), ANSI, and JIS and so on, can be also provided.

Coupled to 2 pole quality IEC motor configurations, with high level class and insulation, in both 50Hz or 60Hz, suitable for marine purpose.

Self-priming Principle

The pump casing is provided with liquid storage chamber insides, which is connected with pump casing through return port and circulation port. When pump starting, the storage liquid will be tossed up along with the air, and the air will be discharged outsides pump.

The pump self-suction head is about **4 to 5 meter**, it takes about 2 to 3 minutes.



Applications

The SILI CLZ pumps are suitable for the **fire-fighting pump, bilge pump, ballast pump, G/S(general service pump), and also cooling pump**. With its built-in self-priming device, it is very suitable for the **emergency condition purpose**, there is no need extra self-priming pump, etc water ring vacuum pump or air ejector pump, so it save space and make easy operation and maintenance.

Capacity range:

10m³/h to 200m³/h in 50Hz

10m³/h to 240m³/h in 60HZ

Head range:

10m to 120m in 50HZ

10m to 140m in 60HZ

Power:

1.5kw to 132kw, 380V/400V/415V/440V, 50Hz/60Hz

Speed(motor poles)

2900rpm(2 poles) in 50HZ

3500rpm(2 poles) in 60Hz

Flange size:

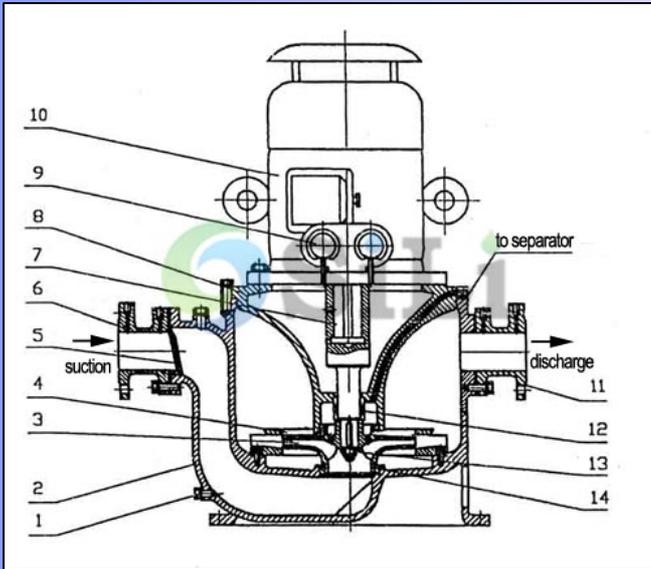
DN40mm(1.5 inch) to DN125mm(5 inches)

Temperature range:

below 60 C degree, max 80 C degree,

Liquid:

Clean sea water, bilge water or fresh water.



Structure and part item list

The pump consists of electric motor, shaft, covers, body, impeller, liquid storage chamber (self-priming chamber) and etc. The shaft of pump connects with the impeller to rotate directly (compact type, (power lower than 30kw)), or through a coupling (spacer coupling type, power bigger than 30kw).

Shaft supported by radial and thrust ball bearings either grease or self-lubricated.

1	Plugs	8	Pump cover
2	Pump body	9	Gauges
3	Impeller	10	Motor
4	Guide shell	11	Outlet flange
5	No-return valve	12	Mechanical seal
6	Inlet flange	13	Nut of impeller
7	Shaft	14	Sealing

Material

Part name	Material	
	Sea water	Fresh water
Cover	Bronze	Cast iron
Casing & body	Bronze	Cast iron
Impeller	Bronze	Bronze
Wear ring	Bronze	Bronze
Guide shell	Bronze	Bronze
Shaft seal	Mech. seal	Mech. seal
Shaft	Stainless steel	Stainless steel
Coupling	Cast steel	Cast steel

Bronze: ZcuZn16Si4

Cast iron: HT250(GG25)

Stainless steel: 1Cr18Ni9Ti



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(The company reserves the right to make alteration without notice)