

The SILI CWZ series pump is a single stage, single suction, end-suction 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.
- Easy installation/service.
- Inlet/outlet flange size same.

Design Features

Self-priming design, with a no-return valve at the suction sides, avoid return of water when pump stopping.

Two bearing housings fitted with deep groove rolling ball bearings. Pumps are fitted with greased for life bearings, or bearings are oil bath lubricated

High quality mechanical seals(carbon/ceramic/stainless steel), most of the pumps are designed with sealing rings at the front and back of impellers.

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

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

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 outsidess pump.

The pump self-suction head is about **4 to 5 meter**.



Applications

The SILI CWZ 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, so it save space and make easy operation and maintenance.

Capacity range:

10m³/h to 100m³/h in 50Hz

10m³/h to 120m³/h in 60Hz

Head range:

20m to 75m in 50HZ

25m to 100m in 60HZ

Power:

1.5kw to 90kw, 380V/400V/415V/440V, 50Hz/60Hz

Speed(motor poles)

2900rpm(2 poles) in 50HZ

3500rpm(2 poles) in 60Hz

Flange size:

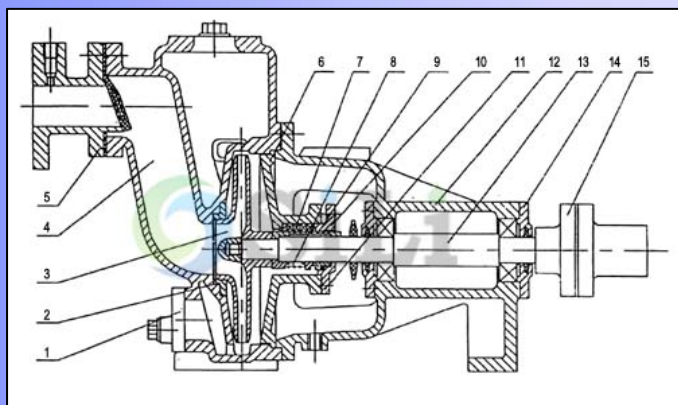
DN32mm(1.25 inch) to DN100mm(4 inches)

Temperature range:

below 60 C degree, max 80 C degree,

Liquid:

Clean sea water, bilge water fresh water, within little impurity



Structure and part item list

The pump consists of electric motor, shaft, covers, body, impeller, self-priming chamber and etc. The shaft of pump connects with the impeller to rotate through a spacer coupling.

A mechanical seal or soft gland packing is provided as a shaft seal.

Two bearing supporting the rotatory parts such as shaft, impeller and etc.

1	Drain nut	9	Shaft sleeve
2	Seal ring	10	Packing gland(optional)
3	Impeller	11	Cover for Mech. seal
4	Body(casing)	12	Frame
5	No-return valve	13	Shaft
6	Cover	14	Bearing cover
7	Packing(optional)	15	Coupling
8	Mechanical seal		

Material

Part name	Material	
	Sea water	Fresh water
Cover	Bronze	Cast iron
Body(casing)	Bronze	Cast iron
Impeller	Bronze	Bronze
Seal ring	Bronze	Bronze
Impeller nut	Bronze	Bronze
Shaft seal	Mech. seal or packing	Mech. seal or packing
Shaft	Stainless steel	Stainless steel
Coupling	Cast steel	Cast steel

Bronze: ZcuZn16Si4

Cast iron: HT250(GG25)

Stainless steel: 1Cr18Ni9Ti



SILI PUMP,
Your reliable one-stop supplier of marine pumps.

Shanghai SILI PUMP Industry Co., Ltd.

Add: No.128 Jinyuan Road, 201518, Shanghai, China (Jinyuan Industry Area)

Tel: 0086-21-39109967, fax: 0086-21-39109967

Web: www.silipump.com e-mail: sales@silipump.com

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