

The SILI CYZ 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.
- Explosion-proof motor provided for oil liquid.
- Large capacity, max to 500m³/h.

Design Features

Self-priming design, no need bottom valve in suction pipeline.

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), or soft packing, Pumps are designed with sealing rings at the front and back of impellers.

Stainless steel(1Cr19Ni9Ti,SS304), or Cast iron(HT250, GG25) pump casing&body, impellers and stainless steel shaft for pump material.

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 outside pump.

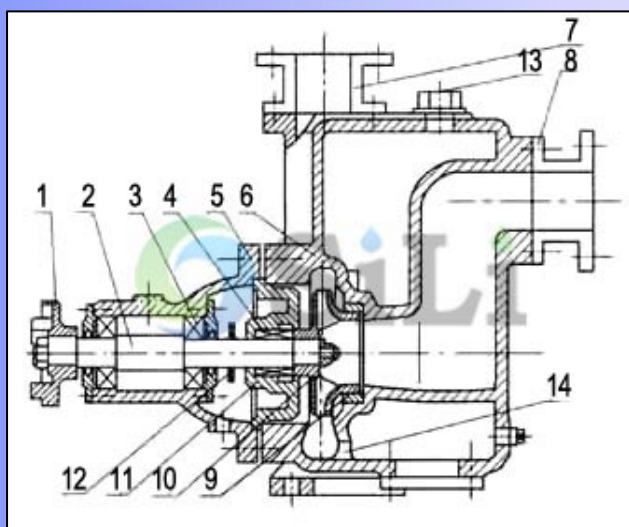
The pump self-suction head is about **4 to 5 meter**, in a progress of 2 to 3 minutes



Applications

The SILI CYZ pumps are very suitable for the **cargo pump for oil on board ship or vessel**(such as F.O., M.O., L.O., diesel oil, petrol, kerosene etc), and also **cargo pump for fresh water and stripping pump**. It can be also used as a ballast pump, bilge pump, and so on.

Capacity range: 5m ³ /h to 500m ³ /h in 50Hz 5m ³ /h to 600m ³ /h in 60HZ
Head range: 20m to 80m in 50HZ 25m to 100m in 60HZ
Power: 1.1kw to 132kw, 380V/400V/415V/440V, 50Hz/60Hz. Explosion-proof motor available.
Speed(motor poles) 2900rpm(2 poles) in 50HZ 3500rpm(2 poles) in 60Hz
Flange size: DN40mm(1.5 inch) to DN250mm(10 inches)
Temperature range: below 50 C degree, max 70 C degree(special cooling device requested)
Viscosity below 100 centipoises
Liquid: F.O., M.O., L.O., diesel oil, petrol, kerosene etc, and also fresh water.



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	Coupling	8	Inlet
2	Shaft	9	Wear seal ring
3	Bearing	10	Impeller
4	Mechanical seal	11	Rear cover
5	Bearing support	12	Water baffle disc
6	Pump casing	13	Filling port
7	Outlet	14	Liquid return port

Material

Part name	Material	
	Cast iron type	SS type
Cover	Cast iron	SS
Casing	Cast iron	SS
Impeller	Cast iron	SS
Shaft seal	Mech. seal or packing	Mech. seal or packing
Shaft	Carbon steel	Stainless steel
Coupling	Cast steel	Cast steel

Cast iron: HT250(GG25)

Stainless steel: 1Cr18Ni9Ti(SS304) or SS316



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