

The **SILI JC series pump** is a line shaft deep well multistage centrifugal pump.(it is also called vertical turbine pump). This pump is especially designed for the sea water lift purpose on board the offshore platform in marine oil and gas production industry.

- Line shaft deep well type
- Compact design
- Large capacity, max to 800m³/h
- Reliable and efficient performance

Design Features

Compact vertical centrifugal multi-stage design, easy operation and convenient maintenance.

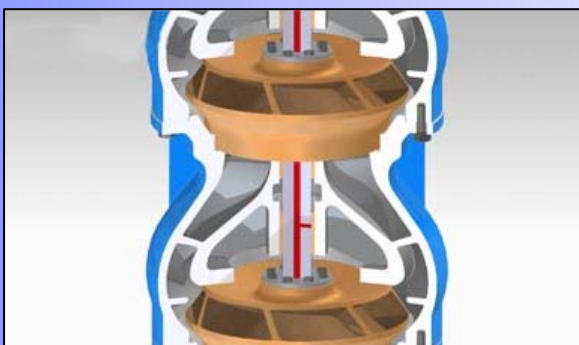
The column shaft pipes have flanged connections and assembled with line shaft bearing. Usually the discharge flange is in Chinese GB standard, the counter flanges can be provided.

The bearing of the JC line shaft is realized with a special sleeve, this is equipped with a rubber bearing and lubricated by the pumped liquid, for example the sea water. And the axial thrust is balanced with two grease lubricated double row bearings or oil lubricated roller bearings.

The pump shaft seal is located on the upper of the pump, it can be in gland soft packing or mechanical seal(single face or double face type)

The main wet parts, such as impeller, casing, are made of by stainless steel(SS304,SS316, or SS316L), bronze material can be also an optional.

The pump impeller and casing adopted the new technique top coated with epoxy, advanced hydraulic and excellent performance.



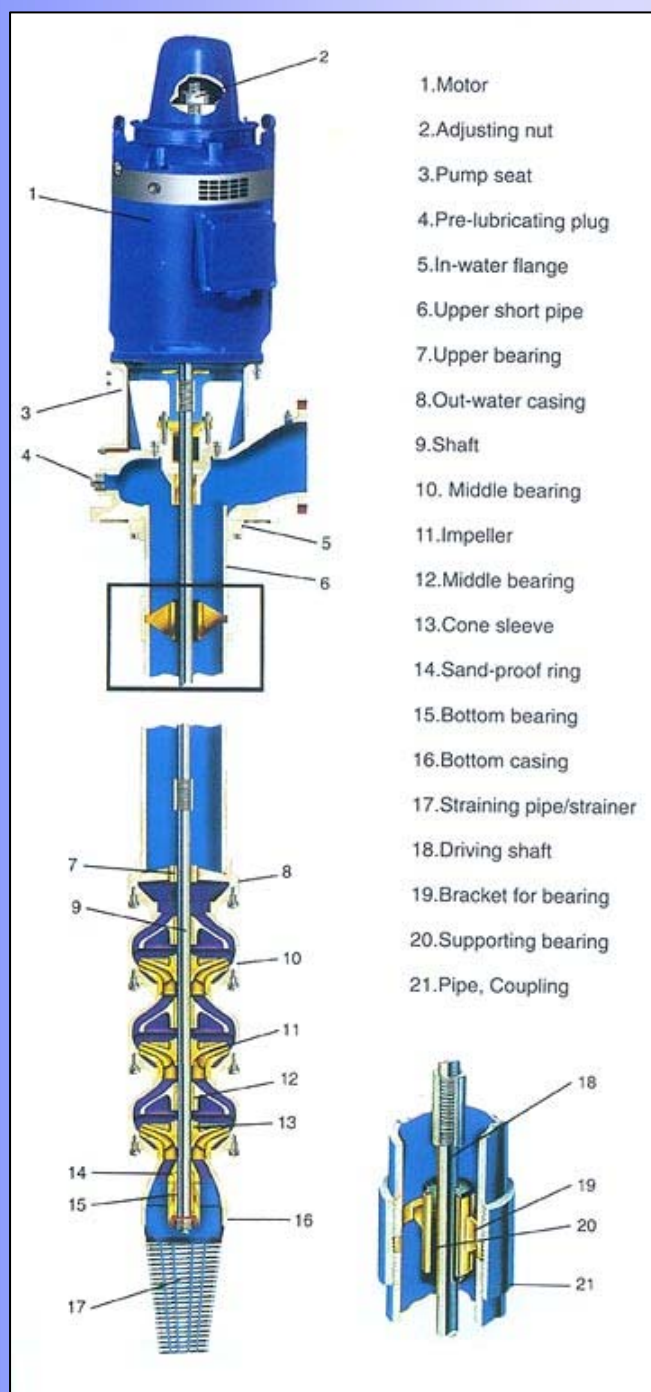
Capacity range: 10m ³ /h to 500m ³ /h
Head range: Usually below 150meter
Power: Max to 300kw, 380V/400V/415V/440V, 50Hz/60Hz
Installation well diameter: DN150 to DN400mm
Flange size of water discharge: DN25mm(2 inch) to DN200mm(8 inches)
Temperature range: 5 to 30 C degree
Liquid: Clean sea water.

Applications

Seawater is an important fluid in the processes of offshore oil production platforms because it is used in many circuits, such as **cooling and reinjection** into the well, and it is also used for **fire-fighting, desalination** and other purpose.

For example, in the injection loop, sea water is pumped up to the platform, where it is then filtered and cleaned. The treated seawater is then injected into the well to increase the pressure there.

The JC line shaft pump can be also used in industrial water supply and agricultural irrigation projects.


Structure and material for part item list

No.	Part name	Material
1	Motor	
2	Adjusting nut	Cast steel
3	Pump seat	Cast iron or cast steel
4	Pre-lubricating plug	Cast iron
5	In-water flange	Cast steel or SS
6	Upper short pipe	SS
7	Upper bearing	Rubber or bronze
8	Out-water casing	SS or bronze
9	Shaft	SS
10	Inter casing	SS or bronze
11	Impeller	SS or bronze
12	Bearing(2)	Rubber or bronze
13	Cone sleeve	SS or bronze
14	Sand-proof ring	SS or bronze
15	Bearing(3)	Rubber or bronze
16	Lower casing	SS or bronze
17	Drainer	SS
18	Drive shaft	SS or cast steel
19	Bearing support	Cast iron or cast steel
20	Bearing	
21	Coupling pipe	SS

Standard material for pump wet part is SS, bronze can be available as an optional.

SS, short name for stainless steel, can be in SS304, SS316, SS316L.

Bronze: ZCuSn3Zn8Pb6Ni1

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

The SILI JC seawater lift pump consists of electric motor, coupling, line shaft, and impeller, bearing impeller cone for each stage impeller assembly and so on.