

Single screw pump is also named as single helical rotor pump, or progressive cavity pump, or eccentric screw pump. The **SILI G and GN series** is a popular type of single screw pump which is widely used in marine and off shore industry. It is a kind of positive displacement pump.

- **Capacity up to 120m³/h.**
- Pressure level, 0.3, 0.6, 0.8, 1.2Mpa.
- Good self-priming function(up to 7m).
- **Handling liquid contents with fiber and solid.**
- Suitable for high viscosity liquid(up to 10000cst).
- Connected by gear(G) or belt transmission(GN).
- **Mechanical seal or soft packing for shaft seal.**
- Simple construction and reliable operation.
- Easy and quite maintenance.

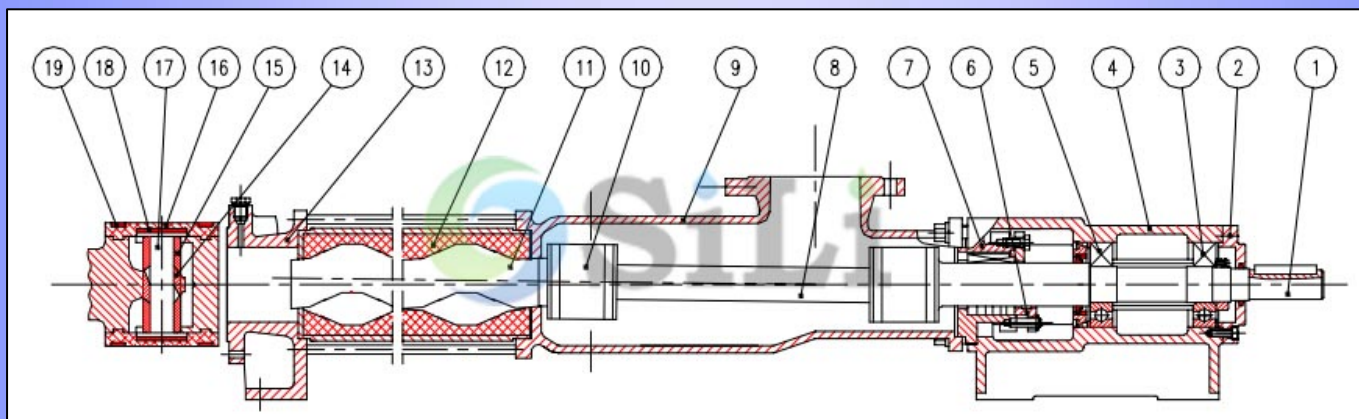
Design Features

- Different capacity is on basis of the different speed. It is better to chose gear-reducing motor(by intermediate transmission). Small size pump can be directly closed by 6P or 8P motor(by flexible coupling).
- For saving space, belt transmission type is also available(by belt type, GN model series).
- Pressure level, for single stage, 0.3 and 0.6Mpa are available, for two stage, 0.8 and 1.2Mpa are available.
- Rotary positive displacement pump, good self-priming ability, installation without bottom valves.
- Pulsation free flow, and quiet operation, suitable for the high viscosity liquid, suitable or handing the liquids containing the fiber and solids grain.(max grain diameter and max length of fiber about 10% and 50% of the suction flange DN)



- Two bearing housings fitted with deep groove rolling ball bearings.
- An universal coupling is fitted between pump drive shaft and pump rotor.
- Shaft seal can be in quality mechanical seal(single face or double face) and soft packing(can be equipment with flushing ring seal)
- Stainless steel(2Cr13 or 1Cr18Ni9Ti) pump rotor, and NBR(nitrile butadiene rubber) pump stator for standard, suitable for the bilge and sludge in marine and off shore industry.
- Simple structure, easy maintenance, no need special tool when assembly and disassembly

Capacity range: 0.2m ³ /h to 120m ³ /h in 50Hz
Pressure range: 0.3Mpa, 0.6Mpa, 0.8Mpa, 1.2Mpa
Power: 0.75kw to 55kw, 380V/400V/415V, 50Hz
Speed(motor or gear-reducing motor) 6 poles(970rpm), 8 poles(720rpm) by direct motor. 570rpm, 510rpm, 450rpm, 390rpm, 340rpm, 280rpm, 240rpm, 220rpm, 190rpm, 160rpm by gear-reducing motor.
Port size(for suction): DN40mm to DN200mm
Temperature range: Max to 100 C degree.
Viscosity range: 5cst to 10000cst
Liquid: Sewage, bilge, sludge and so on.



Material

Part name	Material	
	Standard type	Improved type
Casing	Cast iron	Cast iron
Rotor	2Cr13	1Cr13Ni9Ti
Stator	NBR	NBR
Shaft seal	Mech. seal or soft packing	Mech. seal or soft packing
Shaft	Carbon steel	Stainless steel

NBR: nitrile butadiene rubber

Cast iron: HT250 or GG25.

Structure and part item list

1	Drive shaft	11	Rotor
2	Bearing cover	12	Stator
3	Bearing	13	Discharge casing
4	Bearing housing	Insides universal coupling	
5	Axial bearing	14	Coupling rod bush
6	Soft packing seal	15	Guide bush
7	Mechanical seal	16	Cover sleeve
8	Coupling rod	17	Coupling rod pin
9	Suction casing	18	Retaining sleeve
10	Universal coupling	19	Clamping band

Applications

Typical application of G single screw on board ship or vessel are **discharge of bilge, sewage, sludge, oily sea water and so on.**



SILI PUMP,
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