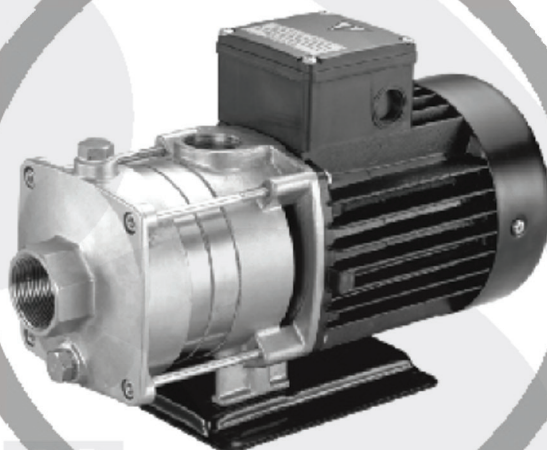




**GOL PUMPS  
TECHNOLOGY INC**



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## 1. HANDLING

Before installation, these installation and operating instructions must be read carefully.

The product must be lifted and handled with care.

## 2. APPLICATIONS

**CB, CBI:** Designed to handle clean, thin, non-aggressive water and non-explosive liquids, no solid particles.

**HBI, HBN:** Designed to handle clean, thin and non-explosive liquid without particles.

Also suitable for light industry applications

## 3. WORKING LIMITS

**CB, CBI:—**

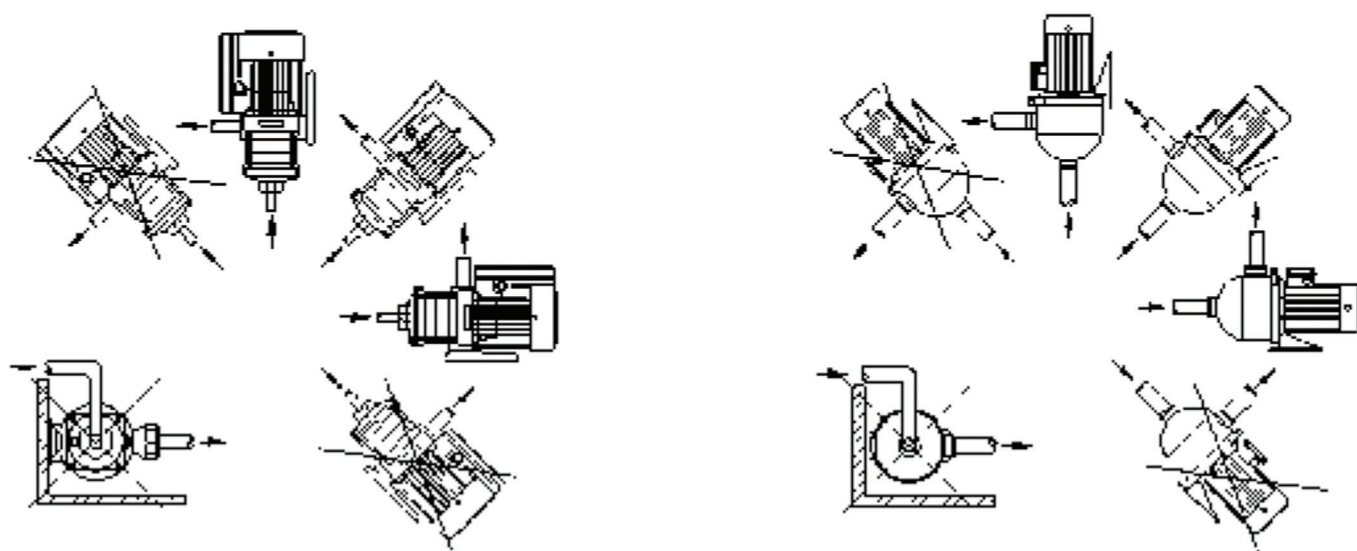
- Max. operating pressure:  
0 °C to +40 °C → 10 bar, +41 °C to +90 °C → 6 bar.
- Max. liquid temperature: 0 °C ~ +90 °C.
- Max. ambient temperature: +55 °C.
- Min. inlet pressure:  
According to the NPSH curve + a safety margin of 0.5m.
- Max. inlet pressure: Limited by the max. operating pressure.

**HBI, HBN:—**

- Max. operating pressure: 10 bar.
- Max. liquid temperature:  
HBI-- 0 °C ~ +90 °C, HBN-- -15 °C ~ +120 °C.
- Max. ambient temperature: +40 °C.
- Min. inlet pressure:  
According to the NPSH curve + a safety margin of 0.5m.
- Max. inlet pressure: Limited by the max. operating pressure.

## 4. INSTALLATION

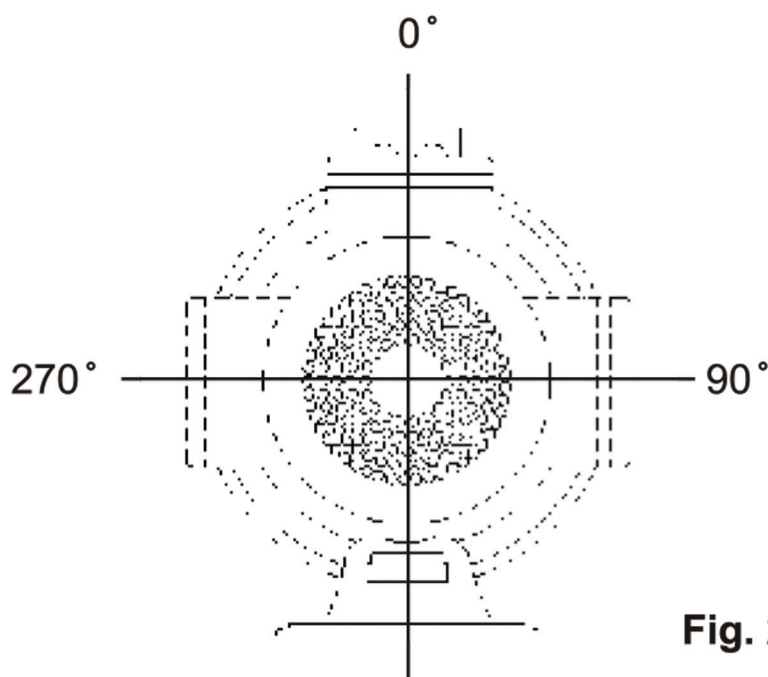
- The pump may be installed as shown in Fig. 1.



**Fig. 1**

- **Position of terminal box (Fig.2)**

The terminal box can be turned to three positions before the pump is installed.



**Fig. 2**



## ● Proper installation (Fig.3)

A= Eccentric adapter

B= Positive lift

C= Good immersion

D= Long radius bends

E= Suction pipe diameter  $\geq$  pump port diameter

F= Suction lift. Depends on pump and installation (\*)

G= Pipes must not exert stress on pump but on independent supports

H= Foot valve.

(\*) The suction lift is determined by liquid temperature, altitude, flow resistance and NPSH required by the pump.

Notes:

A general rule: When the suction pipe is longer than 10 meters or the suction lift is greater than 4 meters, the diameter of the suction pipe must be larger than that of the pump suction port.

## ● Improper installation (Fig.3)

1 = Tight bends: high flow resistance

2 = Insufficient immersion: air suction

3 = Negative lift: air pockets

4 = Pipe diameter  $<$  pump port diameter: high flow resistance.

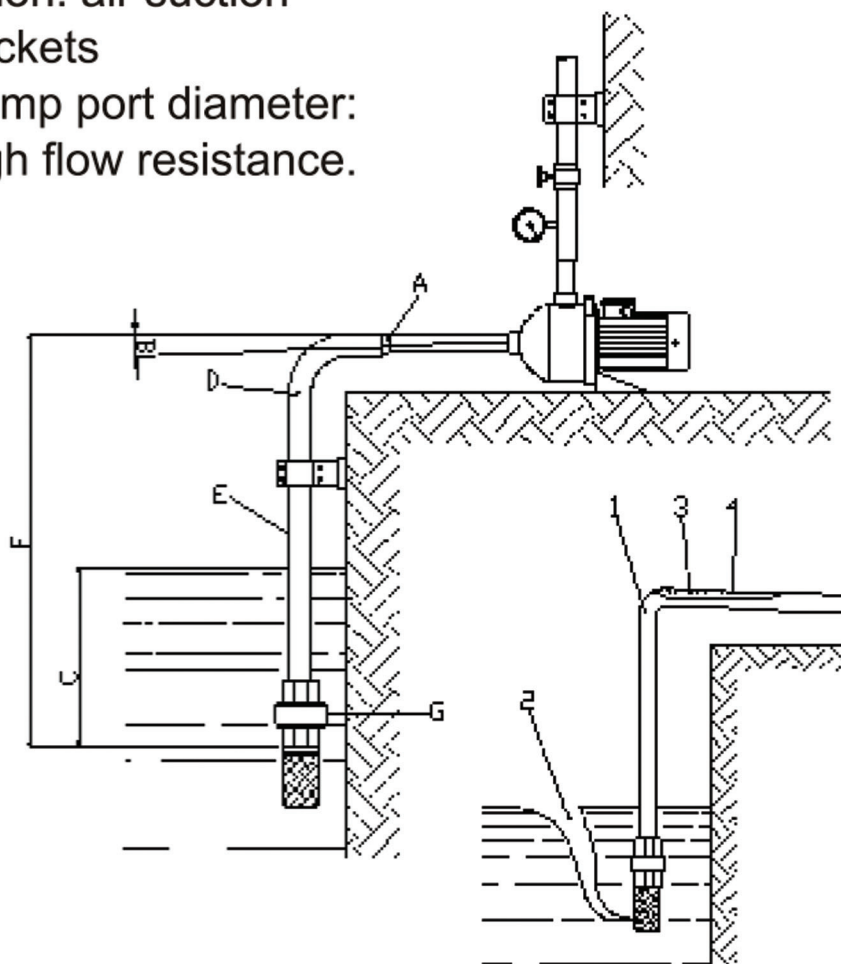


Fig.3

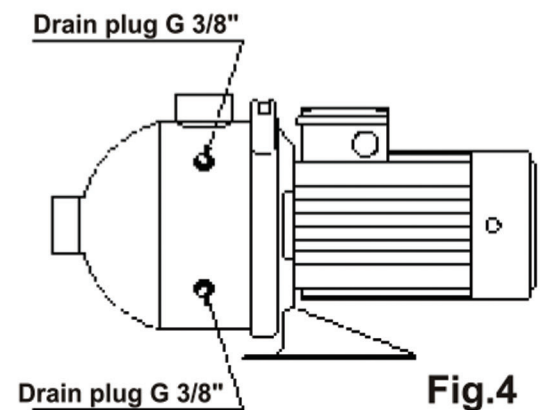
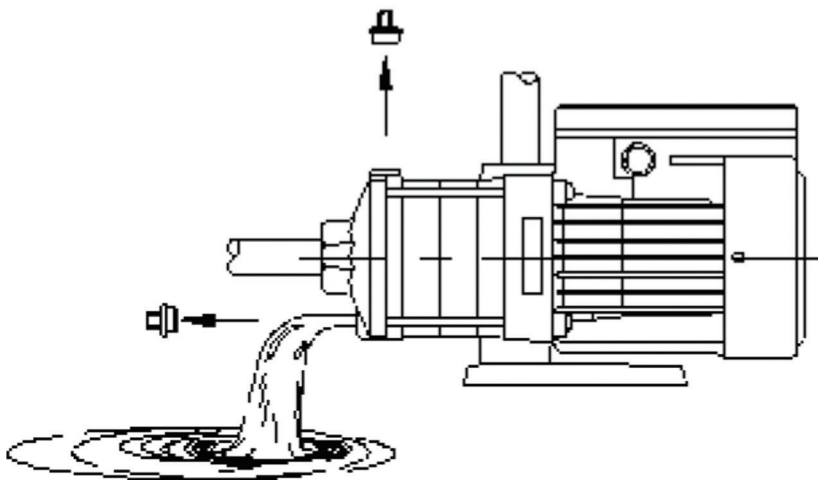
## 5. ELECTRICAL CONNECTION

- To connect (3 phase only), proceed as shown on the inside of the terminal board cover.
- Check the direction of rotation (3 phase motor only)  
Anticlockwise rotation.

## 6. Others

### ● Priming ( Fig.4 )

Before start up, to fill the pump body and suction pipe through the priming plug, bleeding off all the air



### ● Maintenance

No routine maintenance is required.

### ● Frost protection

Pumps which are not being used during periods of frost should be drained to avoid damage.

Remove the priming and drain plugs and allow the pump to drain.  
Do not replace the plugs until the pump is to be used again.

## 7. TROUBLE SHOOTING

Fault	Possible cause
1. Pump does not run when the motor is turned on	Supply failure.
	Main contacts in motor starter are not making contact or the motor coil is faulty.
	Control circuit fuses have blown or are defective.
	Pump is blocked by foreign material
	Motor failure
2. Pump runs but no water delivered	Pump is not primed
	Pump is blocked by foreign material
	Suction or discharge pipe blocked
	Foot valve or non-return valve is blocked
	Suction pipe is leaking
	Suction lift is too great
	Air in suction pipe or pump.
3. Pump capacity is not constant or is reduced.	Pump is sucking air
	The pump, suction pipe or discharge pipe is partly blocked
	Inlet pressure too low
	Wrong direction of rotation (3 phase)
	Suction lift is too great
	Foot valve or non-return valve is partly blocked.
4. Starter overload cut off immediately when the power is switched on.	Overload setting is too low.
	Loose or faulty cable connection
	One fuse is blown (3 phase)
	Pump is not free to run.
	Contacts in overload are faulty.
	The motor windings are defective.
	Low voltage (Especially at peak time).

As policy is one of constant improvement, we reserve the right to make specification changes without notice and without incurring liability.