



说明书材质要求: 105g 有光铜版纸	说明书成品尺寸: 105*143mm
第一: 专色用 6级防晒油墨 +CMYK油墨要求: 1. PANTONE137C专色油墨 (专色用6级防晒油墨): 如果自己配色, 油墨配比为: 酒联中黄 (防晒) 2000g 酒联金红 (防晒) 225g 2. C色油墨: 酒联天蓝墨 3. M色油墨: 酒联金红墨 4. Y色油墨: pantone123C专色油墨 5. K色油墨: 酒联黑墨	第二: 特别注意: 1. 印刷时看样请参考我司提供的实物样品颜色。不得偏色 2. 137C的专色 不得 参考C=0, M=35, Y=90, K=0对应的四色 色谱颜色来看样印刷 Pantone 137C Black (两色印刷)
折叠方式: 风琴折 (20P以下 用风琴折) / 骑马钉 (20P以上 用骑马钉) 特殊情况: 16P/20P: 风琴折 + 对折	备注:

特别注意: 此页内容不印刷

风琴折 + 对折 页面顺序

16P 页面顺序

9	10	11	封面
12	13	14	封底

1	2	3	4
5	6	7	8

20P 页面顺序

11	12	13	14	封面
15	16	17	18	封底

1	2	3	4	5
6	7	8	9	10

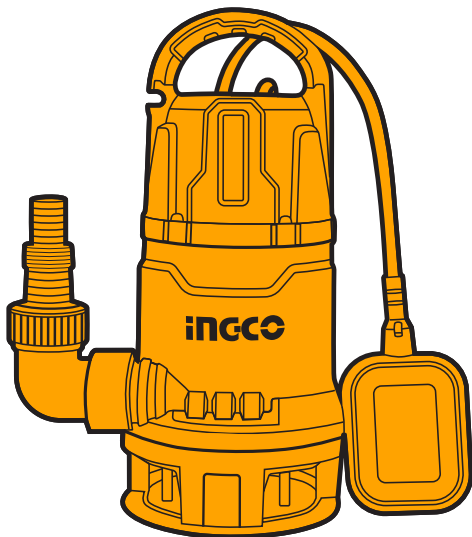
更改记录	1. 新制作, 参考TWP87506			1. 添加货号SPD7508-4 2. 封面封底改彩色		
	1223.V05	2023.12.5	LJJ	0924.V06	2024.9.27	Ligeia
	版本号	日期	设计师	版本号	日期	设计师

INGCO

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**PRODUCT
MANUAL**

SEWAGE SUBMERSIBLE PUMP



SPD7508 USPD7508
SPD7508-5 SPD7508-4



SCAN FOR VIDEO

GENERAL SAFETY WARNINGS

⚠ NOTE Before assembling and putting the pump into operation, in all cases read through the operating manual. For safety reasons, those persons who have not read through the operating manual may not use the pump. The pump is intended for use **ONLY** by adults who have fully read and understand these instructions. Whenever water and electric are in the same place there are risks of electrocution and serious injury or death. The pump is **ONLY** intended for use with water or water based (aqueous solutions) which have a content of at least 90% water. Do not use this pump for flammable, toxic, corrosive or irritant fluids.

- a) *The user is responsible towards third parties with regard to the use of the pump (water installations, etc.)*
- b) *Before putting into operation, a qualified electrician must check that the required electrical safety measures are place.*
- c) *The electrical connection is to be made via an electrical socket.*
- d) *Check the voltage. The specified technical information on the label must correspond to the voltage of the electrical equipment.*
- e) *During the operation of the pump, persons may not remain in the pumped medium.*
- f) *The temperature of the fluid to be pumped may not exceed 35°C. In the event that extension cables are used, they must be exclusively made out of rubber, type H07 RN-F, and in compliance with norm DIN 57282 or DIN 57245. Never handle, lift or carry the pump connected to electrical power by the cord. Make sure that the connection power outlet is kept away from water and moisture and that the power plug is protected from moisture.*
- g) *Before putting the pump into operation, check that the electrical cord and electrical residual current circuit breaker are not damaged.*
- h) *In the event that the pump is to be installed in a storm drain, one must subsequently close the storm drain with a cover in order to safeguard the safety of pedestrians.*
- i) *Reinforce the mounting of the dis-charge pipe with the use of a pipe clip. The user of the pump has the duty to take precautionary measures (installation of an alarm device, back- up pump, etc.) for the avoidance and prevention of potential damages (such as flooded rooms, etc.) due to faulty pump operation*

(because of breakdowns or defects). On sandy or silty ground, it is necessary to let the pump run hanging by a rope or chain or to situate the pump on a suitable base in order to prevent the sinking of the intake section.

- j) In the event that the pump is damaged, the repair should only be made by an authorized service agent. Only original replacement parts must be used.*
- k) The failure to correctly use, clean and maintain the pump or to modify the pump or its accessories in anyway other than that described in these instructions will prevent use for accepting any responsibility for damages, loss or injury. The following illustrate some of the cases where claims be refused.*
 - Inappropriate repairs not made by an authorized agent*
 - Use of other than original replacement parts.*
- l) The connecting cable of this device may not be replaced. In the event of damage to the cable, the device should be scrapped.*
- m) Note this product has internal lubricant which may escape contaminating the water, consequently the pump is not suitable for ponds with fish or other aquatic organisms. In addition, the pump can only be used to with water that is NOT for drinking at a later date. The same rules apply for the accessories.*

THE SYMBOLS IN INSTRUCTION MANUAL

	Read the instruction manual before using.
	Safety alert. Please only use the accessories supported by the manufacturer.
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

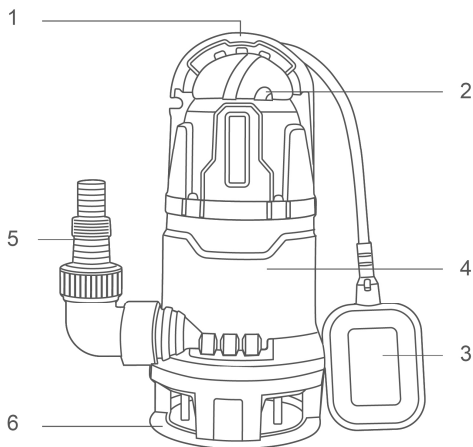
INTENDED USE

Submersible pumps have been designed for private use around your house and garden.

Submersible pumps are predominantly used for drainage after folding, transfer of liquids, draining containers, taking water from wells and shafts, draining boats and yachts as well as for water aeration and circulation for limited period of time.

The pumps are fully submersible (waterproof sealed) and can be submerged down to a depth of 5m into the liquid.

SPECIFICATIONS



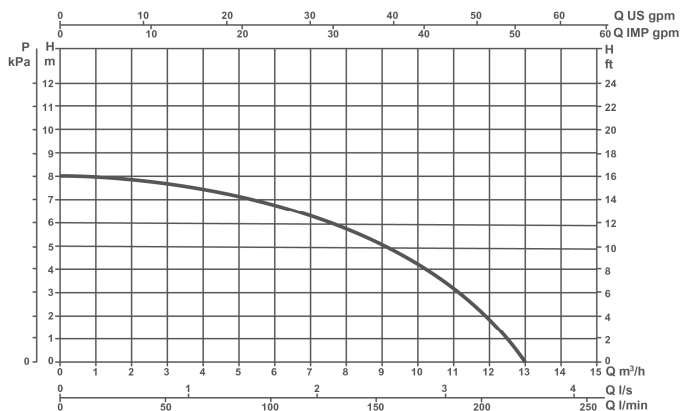
- 1. Handle
- 2. Power cord
- 3. Float switch

- 4. Housing
- 5. Outlet
- 6. Housing

Technical specifications

Model No.	SPD7508	USPD7508	SPD7508-5	SPD7508-4
Rated voltage (V)	220-240~	110-120~	220-240~	220-240~
Rated frequency (Hz)	50	60	60	50
Phase	Single	Single	Single	Single
Rated output (kW/HP)	0.75/1.0	0.75/1.0	0.75/1.0	0.75/1.0
No-load speed (r/min)	2850	3450	3450	2850
Max. head (m)	8	8	8	8
Max. flow (L/min)	217	217	217	217
Inlet/Outlet (inch)	1"	1"	1"	1"

Performance curves



The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

OPERATION

Installation

If the bottom of the well or borehole in which the pump is to operate is particularly dirty, it is advisable to provide a support for the pump to sit on so as to avoid clogging of the intake grid.

2. Before putting the pump in position, ensure that the strainer is not totally or partially blocked by mud, sediment or similar substances.

3. It is advisable to use pipes with an internal diameter at least equal to that of the delivery mouth, to avoid falls in pump performance and the possibility of clogging. In cases where the delivery pipe has long horizontal stretches, it is advisable for this pipe to have a larger diameter than that of the delivery mouth.

4. Totally immerse the pump in the water.

5. On the version provided with a float switch, ensure that the float can move freely. The dimensions of the borehole must also be calculated with relation to the quantity of water arriving and to the pump flow rate so as not to subject the motor to excessive starting operations.

6. When the pump is to be in a fixed installation, with a float, a check valve must always be fitted in the delivery pipe. This is also advisable on pumps with manual operation.

7. Connect the delivery pipe or hose directly to the pump mouth. If the pump is used in fixed installations, it is advisable to connect it to the pipe with a coupling so as to facilitate disassembly and reinstallation. If a hose is used, fit a threaded hose tail on the pump mouth. Wrap the thread with suitable material to ensure an effective seal.

Electrical connection

1. Ensure that the mains voltage is the same as the value shown on the motor plate and that there is the possibility of making a good earth connection.

2. Single-phase motors are provided with built-in thermal overload protection and may be connected directly to the mains. If the motor is overloaded it stops automatically. Once it has cooled down it starts again automatically without any need for manual intervention.

3. Three phase pumps must be protected with motor protectors suitably calibrated according to the values on the data plate of the pump to be installed. The plug on the pump must be connected to an EEC socket complete with

isolating switch and fuses.

4. Do not damage or cut the power cable. If this should occur accidentally, have it repaired or replaced by skilled and qualified personnel.

Adjusting the float switch

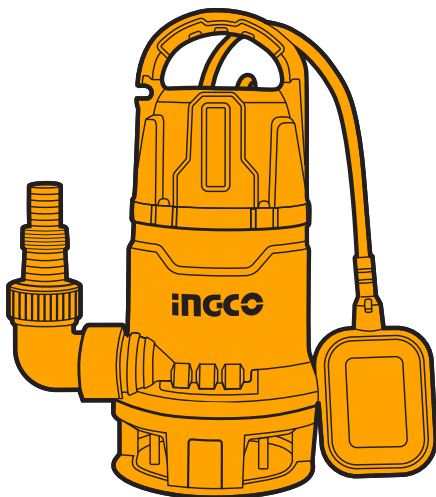
Models with a float switch start up automatically when the water level rises. Lengthening or shortening the cable between the float and the fixed point adjusts the START or STOP level of the pump. Be sure that the float can move freely. Ensure that the stop level does not uncover the strainer.

MAINTENANCE&MALFUNCTIONS

Possible malfunctions and methods of their eliminations

Fault	Checks (possible cause)	Remedy
The motor does not start and makes no noise.	A. Check the electric connections. B. Check that the motor is live. C. Check the protection fuses.	A. If they are burnt-out, change them. B. If the fault is repeated immediately this means that the motor is short circuiting.
The motor does not start but makes noise.	A. Ensure that the mains voltage is the same as the value on the plate. B. Ensure that the connections have been made correctly. C. Check that all the phases are present on the terminal board. D. Look for possible block- ages in the pump or motor. E. Check the condition of the capacitor.	A. Correct any errors. B. If not, restore the missing phase. C. Remove the blockage. D. Replace the capacitor.
The motor turns with difficulty.	A. Check the voltage which may be insufficient. B. Check whether any moving parts are scraping against fixed parts.	A. Eliminate the cause of the scraping.
The pump does not deliver.	A. The pump has not been primed correctly. B. On three-phase motors, check that the direction of rotation is correct. C. The diameter of the intake pipe is insufficient. D. Blocked foot valve.	A. If necessary, invert the connection of two supply wires B. Replace the pipe with one with a larger diameter. C. Clean the foot valve.
The pump does not prime.	A. The intake pipe or the foot valve is taking in air. B. The downward slope of the intake pipe favors the formation of air pockets.	A. Eliminate the phenomenon and prime again. B. Correct the inclination of the intake pipe.

The pump supplies insufficient flow.	A. Blocked foot valve. B. The impeller is worn or blocked. C. The diameter of the intake pipe is insufficient. D. On three-phase motors, check that the direction of rotation is correct.	A. Clean the foot valve. B. Remove the obstructions or replace the worn parts. C. Replace the pipe with one with a larger diameter. D. If necessary, invert the connection of two supply wires.
The pump vibrates and operates noisily.	A. Check that the pump and the pipes are firmly anchored. B. There is cavitation in the pump, that is the demand for water is higher than it is able to pump. C. The pump is running above its plate characteristics.	A. Fix the loose parts more carefully. B. Reduce the intake height or check for load losses. C. It may be useful to limit the flow at delivery.



MADE IN CHINA 0924.V06



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