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# Model: SP240VD90L

## 240V Drum Pump

### with Dip Tube

### User's Manual



#### A. SAFETY

All safety instructions must be observed and followed before use.

1. There are high speed rotating components. Failure to follow the safety instructions may lead to serious injury. All safety instructions must be observed and followed strictly.
2. Before installing and starting the barrel pump the user should have suitable qualifications and is familiar with this manual.
3. The installation and maintenance must be according to current machinery and electrical standards.
4. The spare parts life time will be limited by wear and corrosion. The failure is affected by operating environment. The user has the responsibility to operate in accordance with regulations. Regular maintenance should be performed regularly.

#### When Using

1. Wear protective clothing, goggles in accordance with safe practice and materials handling.
2. It is prohibited to use plastic or aluminum alloy pump piping and non-explosion proof motors when transferring flammable liquids.
3. For flammable liquids, the earth wire must be installed along with an electrostatic protection device and conductive hose.
4. Make sure the pump pipe is inserted into the liquid completely before using. Make sure all connections are liquid tight.
5. Suitable flexible pipe must be used when transferring high temperature liquids.
6. Ensure the pumped liquids temperature, viscosity and density do not exceed the stated upper limits for this pump.
7. Use a suction filter in the pump tube when transferring liquids with impurity or solids. To avoid the blocking, please check and clean regularly.
8. Make sure the pump is under supervision before powering on. Never leave the pump unattended when in use.
9. Do not touch the tube bottom after switching on the pump. The impeller spins at high speed and may lead to equipment damage and personal injury.

Make sure the pump tube is operating in the vertical position. Never upend or lay flat after using. Pay attention to residual liquids which may lead to injury or cause environmental damage.

#### B. MACHINE DESCRIPTION

**MOTOR:** AC series motor with overheating protection components, Quick coupling adapter, Automatic positioning coupling and Adjustable speed switch.



#### ATTENTION!

- Never leave the pump unattended.
- Never run the pump dry.
- The pump should not be immersed deeper into the liquid than the outlet connection.

#### C. TECHNICAL DATA

##### C1. Electrical Data

PUMP MODEL	ELECTRICAL POWER			Load Speed (RMP)	Rated Speed (RMP)
	Current	Voltage(V)	Power (W)		
SP240VD0L	AC	230	450	3000~11000	20000

#### D. OPERATING CONDITIONS

##### D1. Environmental Conditions

Electro-Motor operating environment: -25~40°C

##### D2. Power Supply

Make sure that the supply voltage corresponds to the voltage indicated on the rating plate.



#### ATTENTION!

Power from lines with values outside the indicated limits can damage the electrical components.

## E. MOVING AND TRANSPORT

Ensure the pump and pump tube are packaged properly for transport.

## F. INSTALLATION

### Safety Check

**Make sure that the supply voltage corresponds to the voltage indicated on the rating plate.**

### 7.1 Motor Installation

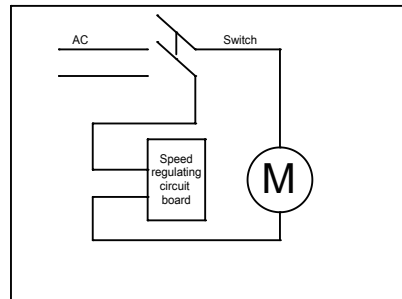
1. Pump tube check: Make sure every joint has a good seal.
2. Motor Check: Make sure the power cable and switch are in good condition. Do not put hands near the motor output shaft.
3. Put the motor coupling is directed at the pump tube. Make sure the pump tube head is inserted into the motor head completely.
4. The motor and pump tube position can be adjusted by 360°. Put the pump tube adjusted to the suitable position and lock the nut to finish the installation. It is recommended that the pump discharges away from the motor power cable.

### 7.2 Start

Make sure all the joints are sealed. The tube outlet must be fixed well to avoid pressure leaking.

### F7. Electrical Connections

- Terminal strip box consists
  - ON/OFF switch;
  - Speed regulating knob switch
- Speed regulating circuit board
- 5M Power cable



### ATTENTION!

IT IS THE INSTALLER'S RESPONSIBILITY TO PERFORM THE ELECTRICAL CONNECTIONS WITH RESPECT TO SAFETY REGULATIONS.

## G. DAILY USE

Continuous running may cause motor overheating, the overheating protection system will cut the power automatically. The motor can be restarted again after cooling down by pressing the on/off button.



### ATTENTION!

The suggested duty cycle is 2 hours. Do not exceed one hour when the environment temperature is more than 30°C. Please change the electric brush every 250-300 hours.

## H. NOISE LEVEL

Under normal working conditions the noise emission from all models does not exceed the value of **80 db at a distance of 1 meter** from the electric pump.

## I. DISPOSING OF CONTAMINATED MATERIALS

In the event of maintenance or demolition of the machine, do not disperse contaminated parts into the environment. Refer to local regulations for their proper disposal.

## J. PROBLEMS AND SOLUTIONS

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
No flow rate or small flow rate	Loss of power source	Check power supply
	Motor failure,	Motor Check
	Outlet closed or blocked	Open the outlet valve and check
	Suction lift too great	Short the transportation distance and height
	Liquid viscosity too high	Check the type with supplier
	Liquids draining out	Stop the pump
Vibration and noise	Blocked inlet	Clean the inlet
	Liquids draining out	Stop the pump
	Motor overload	Check the liquids viscosity and pump lift
	Sliding bearing damage	Change the sliding bearing and seal ring
Pump tube leakage	Coupling wear	Change the coupling
	Seal ring wear	Change the seal ring
	Circuit failure	Check the circuit
	Overuse of the motor, overheating protection, electric brush damage	Restart the motor after cooling down Change the electric brush

## K: DIAGRAM & PARTS LIST

No.	Description	Qty.	No.	Description	Qty.	No.	Description	Qty.
1	Tapping screw	3	9	Lining	1	17	Motor	1
2	Speed control knob	1	10	Speed control circuit board	1	18	Cable	1
3	Switch block	1	11	Motor shell	1	19	Coupler	1
4	Countersunk head tapping screw	2	12	Tapping screw	3	20	Bottom cover	1
5	Head cover	1	13	The handle cover	1	21	Flat gasket	3
6	Tapping screw	2	14	Binding post	1	22	Spring washer	3
7	Rotary knob connector	1	15	Wire pressing piece	1	23	Bolt	3
8	Toggle switch	1	16	Cable shield	1	24	Tapping screw	8

