

# STANLEY®

Industrial Submersible Pump

## INSTRUCTION MANUAL

SKU NUMBERS:

STAVTX75, STAVTX120

SERIAL NUMBER: \_\_\_\_\_



## WARNING

This appliance can be used by children aged from 8 years and above and any persons, provided they have experience and knowledge regarding the use of the product, or supervision or instruction regarding the use of the appliance in a safe way, and understand the hazards involved.

Children shall not play with the appliance.

Cleaning and user maintenance shall not be completed by children.

### Attention!

If the appliance or the supply cord is damaged, it must be repaired by manufacturer, its service agent or qualified person.



Meaning of crossed – out wheeled dustbin:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact you local government for information regarding the collection systems available.

## Function and features:

The STAVTX series are a high quality, industrial submersible sewage grade pumps. Compared with traditional sewage submersible pumps, the STAVTX series has re-designed the passage of flow, making it wider to increase the efficiency of the pump without over-loading. This allows the pump to run safely under large flow rates, without clogging the impeller.

The wider passage also allows transfer of sewage and waste with solids and fibres via the vortex suction and casting technique.

It can be run automatically if it is assembled with float switch, and the thermal protector inside pump can automatically shut off the pump when overheating and overloaded, to guarantee safe and reliable operation under hard conditions.

### Condition of usage:

1. Maximum operating depth 5m below water level;
2. Continuous duty when fluid temperature under  $+40^{\circ}\text{C}$ ;
3. Value of PH in fluid 4~10;
4. Maximum kinematic viscosity:  $7 \times 10^{-7} \sim 23 \times 10^{-6} \text{m}^2/\text{s}$ ;
5. Maximum density:  $1.2 \times 10^3 \text{kg}/\text{m}^3$

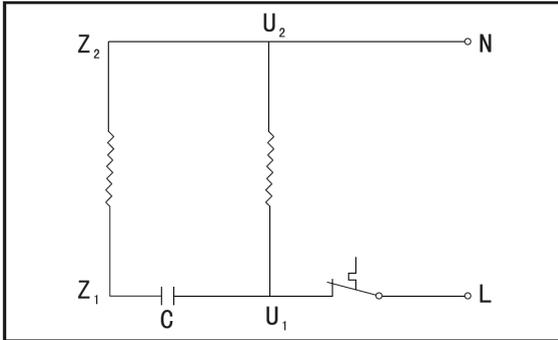
Technical Data (the data will be some change under different voltage and frequency):

**STAVTX75**

Copper winding  
Stainless steel welded shaft  
Insulation class: B  
Protection class: IP68  
Max immersion depth: 5m  
Max liquid temperature: +40oC  
Power: 0.18kW  
Outlet ports: 40,32,25mm  
Max flow: 133 lpm  
Max head: 7m  
Max particle diametre: 15mm

**STAVTX120**

Copper winding  
Stainless steel welded shaft  
Insulation class: B  
Protection class: IP68  
Max immersion depth: 5m  
Max liquid temperature: +40oC  
Power: 0.45kW  
Outlet ports: 50mm  
Max flow: 200lpm  
Max head: 8.5m  
Max particle diametre: 25mm

**Circuit diagram:****Installation and remark:**

1. Before installation, please carefully check for any damage to the pump, including the power cord.
2. Check whether the power supply is conformed to the stipulation of the nameplate before installation. Pump must connect with earth to keep safe.
3. Before installation please check whether the cable and plug is scratched, broken, etc. If they are faulty, please consult dealer or technician qualified to replace them.
4. Use thr iron thread or hoop to make the outlet and discharge pipe tight, and then tie a rope on the handle as a sling to as to move the pump up and down.
5. Impacting and pressing the cable is absolutely prohibited. Cable cannot be used as a sling. Don't discretionarily drag the cable while the pump is running, to avoid creepage.
6. The power supply connected with the pump must be assembled with an electricity-leaking circuit breaker, and the voltage must be controlled within  $\pm 15\%$  of the rated to avoid destroying the motor.
7. Don't touch and move the pump before the power is cut-off.
8. Be sure that the connection part between plug and cable is far from the water.
9. Be sure that the plug and cable are far from the heat, oil and sharp materials.

## Maintenance

1. Often check the cable and duly replace the cable if it is found with a fault or, broken.
2. After running 2000hrs, please maintain the pump as per the following steps:  
Disassemble pump: carefully check the spare parts that are easily worn, for example bearing, mechanical seal, oil seal, "O" ring, impeller etc. And duly replace the spare parts damaged.  
Change oil: take the charge plug of oil chamber out, and inject 10#oil to 70%-80% of the capacity of chamber (edible earthnut oil is available if no 10# oil).  
Air testing: After maintenance, the pump must be tested by air. Inject high-pressure air into the pump and keep the pressure at 0.2Mpa. It is reliable if there is no leakage within 5 minutes.
3. Don't submerge the pump into the water if it isn't started for a long time. Take the pump out of water and clean it and then follow the anti-rust process.

## Fault and Solution (shut off the power before operation)

<b>Fault</b>	<b>Possible cause</b>	<b>Remedy</b>
<b>Pump does not start</b>	<ol style="list-style-type: none"> <li>1. Too low voltage;</li> <li>2. Impeller blocked;</li> <li>3. Stator winding burn up;</li> <li>4. Capacitor damaged;</li> <li>5. Absent phase (3 phase);</li> <li>6. Too large resistance of cable.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust voltage to <math>\pm 15\%</math> of the rated;</li> <li>2. Remove obstacles;</li> <li>3. Repair;</li> <li>4. Replace capacitor;</li> <li>5. Check switch and cable connection etc;</li> <li>6. Use the proper cable ;</li> </ol> <p>(Item 3 and 4 must be operated under the guidance of dealer or technician qualified.)</p>
<b>Pump delivers reduced water</b>	<ol style="list-style-type: none"> <li>1. High delivery head;</li> <li>2. Filter mesh clogged;</li> <li>3. Impeller worn off;</li> <li>4. Too shallow submersible depth;</li> <li>5. Wrong rotation (3 phase).</li> </ol>	<ol style="list-style-type: none"> <li>1. Lower the head;</li> <li>2. Clean the filter mesh;</li> <li>3. Replace impeller;</li> <li>4. Adjust the submersible depth above 0.5m;</li> <li>5. Inverse two phase.</li> </ol>
<b>Pump stops suddenly</b>	<ol style="list-style-type: none"> <li>1. Switch cut off or blowout;</li> <li>2. Impeller blocked;</li> <li>3. Stator winding burn up.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check power supply, replace fuse;</li> <li>2. Shut off power, clean obstacles;</li> <li>3. Repair (must consult the dealer and technician qualified).</li> </ol>

