TPV-30



Submersible vortex pump suitable for stormwater and greywater.

Features

- Cast-iron body with heavy duty metal grab-handle.
- Designed for immersion in stormwater/greywater
- Automatic operation via float switch
- One year warranty



Motor: 250W

Power Phase: Single Phase

Capacity: 20mm soft solids (NO sand, stones or

gravel)

Dimensions (approximate): 380mm high, 170mm long,

120mm wide

Weight: 8kg

Outlet Size: 32mm

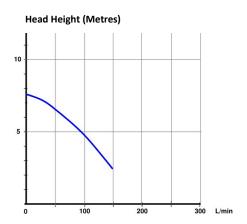
Power Cable Length: 10m

NOT to be used for drip feeds or lateral lines under any

circumstances







Performance at 32mm outlet

(25mm performance is slightly reduced)

For the full pump range, warranty details and pump stations visit our website

been given supervision or instruction cond CONTENTS

of lack of experience and knowledge if they

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collection facilities.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning 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 made by children without supervision.

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.

1. Application

TPG/TPH series submersible sewage pumps are suitable for buildings, hospitals, residential quarters, municipal engineering, road traffic and construction, factory sewage, sewage treatment, and other occasions. It is used to discharge wastewater, rainwater, and sewage containing solid particles.

2. Operation Conditions

Voltage and frequency: Please refer to the nameplate;

Max.liquid temperature: 40°C

Liquid pH Value: 4-10

Max.liquid density: 1200kg/m³

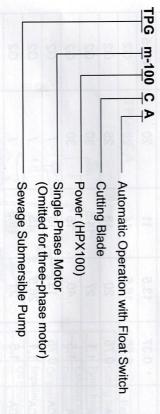
The volume ratio of solid impurities in the medium should not exceed 2%.

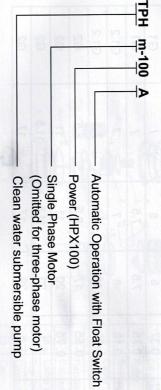
Protection class: IPX8

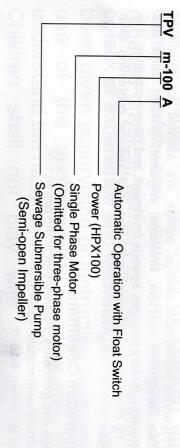
It cannot be used for media with strong corrosive fluid and strong abrasive particles.

The particle size should not be larger than the largest particle diameter allowed to pass.

3. Identification Codes



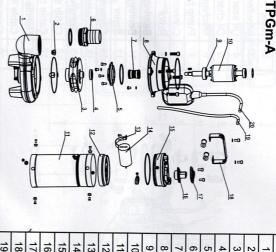




4. Technical Data

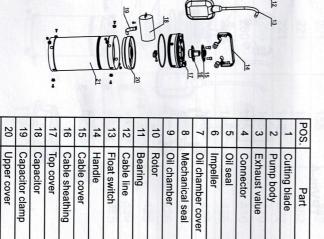
Model	Power (Kw)	Max. Flow (m³/h)	Max. Flow Max. Head (m³/h) (m)	Max. Diameter of Particle (mm)	Inlet/Outlet
TPGm-25A	0.18	11.5	8.5	15	G1.5
TPGm-30A	0.25	13	9.5	15	G1.5
TPGm-50A	0.37	13.5	1	20	G1.5
TPGm-75A	0.55	16.5	14	25	62
TPGm-100A	0.75	20	18	25	G2
TPGm-150A	1.1	27	14.5	30	92
TPGm-200A	1.5	40	15	30	92
TPGm-100CA	0.75	15	13	1	G2
TPGm-150CA	1.1	26.5	15	1	G2
TPGm-200CA	1.5	21	19.5	1	G2
TPHm50A	0.37	5	5	1	ଦ୍ର
TPHm100A	0.75	7.5	7.5		G1
TPVm25A	0.18	8	7	7	G1.2
TPVm30A	0.25	10	7.5	7.5	G1.2
TPVm75A	0.55	17	8.5	8.5	G2
TPVm100A	0.75	20	11	1	G2
TPVm150A	1.1	23	11.5	11.5	G2
TPVm200A	1.5	26	17	17	G2

5. Product Structure & Installation Dimensions

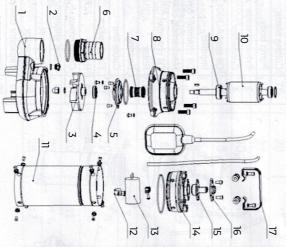


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20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	ω	2	_	POS.
Float switch	Cable line	Handle	Cable cover	Cable sheathing	Top cover	Capacitor	Capacitor clamp	Upper cover	Stator	Rotor	Bearing	Oil chamber	Mechanical seal	Connector	Oil chamber cover	Oil seal	Impeller	Exhaust value	Pump body	Part

TPGm-CA

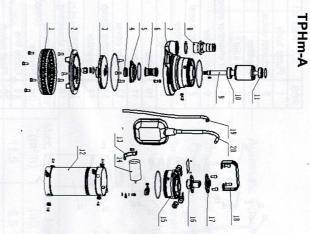


21 Stator

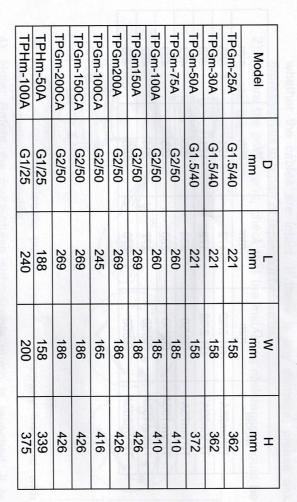


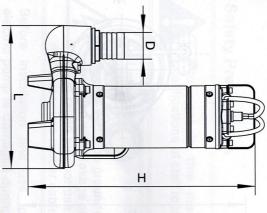
TPVm-A

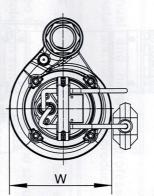
17	91	15	14	13	12	П	0	9	8	7	6	5	4	3	2	1	POS.
Handle	Cable cover	Cable sheathing	Top cover	Capacitor	Capacitor clamp	Stator	Rotor	Bearing	Oil chamber	Mechanical seal	Connector	Oil chamber cover	Oil seal	Impeller	Exhaust value	Pump body	Part

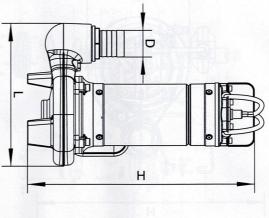


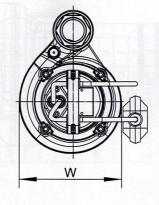
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	з	2	1	POS.
Float switch	Cable line	Handle	Cable cover	Cable sheathing	Top cover	Capacitor	Capacitor clamp	Stator	Bearing	Bearing	Rotor	Connector	Pump body	Mechanical seal	Oil chamber cover	Oil seal	Impeller	Base	Strainer	Part









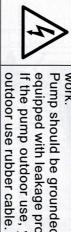


TPVm150A	TPVm100A	TPVm75A	TPVm30A	TPVm25A	Model
G2/50	G2/50	G2/50	G1.2/32	G1.2/32	D mm
277	233	233	172	172	mm L
204	165	165	121	121	mm
482	433	423	363	353	mm H
	G2/50 277 204	G2/50 233 165 G2/50 277 204	G2/50 233 165 G2/50 233 165 G2/50 277 204	G1.2/32 172 121 G2/50 233 165 G2/50 233 165 G2/50 277 204	G1.2/32 172 121 G1.2/32 172 121 G2/50 233 165 G2/50 233 165 G2/50 237 204

6. Safety Precautions



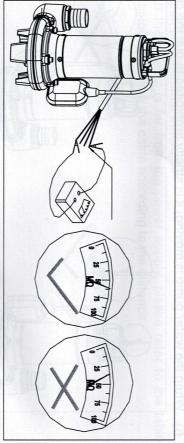
qualifications of staff to install and maintain the product Proficient in this manual and have the professional



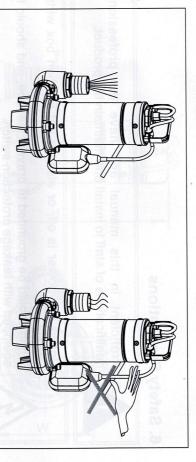
Work. Unless the power is off, or else do not junction box wiring

Pump should be grounded to prevent leakage, and should be If the pump outdoor use, you must use an extension cord for equipped with leakage protection switch.

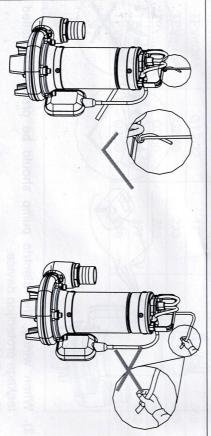
- 1). Before installation and use, comprehensively check whether the , electric pump is damaged during transportation and storage, such as whether the cables are intact. If there is any damage, please ask professionals to repair or replace it before use.
- 2). Before the pump runs, check that the insulation resistance should be greater than 50MΩ.



- 3). When wiring, the electric pump should be properly installed with leakage protection device.
- 4). Note: Before the three-phase submersible pump is launched, it is be reversed, the power supply should be cut off immediately, and any necessary to confirm the direction of the motor. If the motor is found to two cables of the three-phase pump should be exchanged.

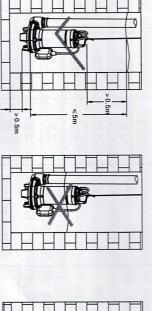


- After the power is turned on, the wind is very strong at the water outlet.
- b. The direction of the motor is reversed. After the power is turned on, the wind at the water outlet is very small or even no wind.
 c. Do not touch the pump after power on!
- When connecting the hose to the water outlet, it can be fastened with iron wire or clamp;
- 6). When the water pump is moving, it is strictly prohibited to pull the cable.



- a. The handle should be tied with a rope before the electric pump is launched.
- b. During the transportation of the electric pump, do not lift the cable and float switch as a sling.

7). When the electric pump is submerged in the water, the diving depth cannot be lower than 0.5m, not more than 5m, and cannot be immersed in the mud. During the work process, the water level should be checked frequently, and the electric pump should not be allowed to work above the water surface.



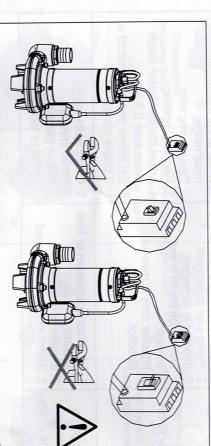
- When the electric pump is working, safety warning signs should be set up at the use site to prevent accidents.
- 9). When the electric pump is in normal operation, the built-in protector will not act. Once the protector is frequently disconnected, the power supply should be cut off, the reason should be checked, and the fault can be eliminated before use.
- 10). If the ground is far from the power supply, please refer to the table below to thicken the cable according to the distance.

7.5	5.5	4	ы	2.2	1.1	0.75	0.55	0.37	0.25	2.2	1.5	1.1	0.75	0.55	0.37	0.25	kW	Power
			, sonate	JUC	380	SATING AND		State of the state					220			DIC CHICKER	<	Rated Voltage
			to arts of pricing	A DOMOI STIDING	Chucks nosser	versubsitivates	mm²	area of cables	Cross-sectional							TOTAL METALLINES TOTAL	haw sit jacodon	that pagramdus
4	2.5	2.5	1.5		0.75	0.75	0.75	0.75	0.75	2.5	2.5	1.5	1.0	1.0	0.75	0.75	50	Recommen
4	2.5	2.5	1.5	1 2 Lancon	0.75	0.75	0.75	0.75	0.75		2.5	2.5	1.5	1.5	1	_	100	Recommended Cable Length (m)
	4	2.5	2.5	4	1	0.75	0.75	0.75	0.75				2.5	2.5	1.5	1.5	200	ength (m)

 The motor is a dry structure, and it is not allowed to fill the motor cavity with oil or water.

12). The electric pump oil chamber is filled with oil to ensure that the mechanical seal is effectively lubricated and cooled. In the case of product damage or failure, leakage may occur. In planting, breeding or drinking water, food transportation and processing environments, the leaked oil may cause damage to plants, culture or damage to drinking water, food, etc. produce pollution. The use environment and consequences should be evaluated before choosing this product. In order to confirm whether this product is suitable for use, please ask relevant professionals to confirm if necessary. In case of oil leakage, stop using it immediately and dispose of it properly.

13).When the pump is working, if the position of the pump needs to be adjusted or there is an action to contact the pump, the power must be cut off first to prevent accidents.



If the pump is touched while it is running, the power must be cut off.

14). When the electric pump is working, it is strictly forbidden for the cable connector wire or socket board to submerge in the water. If it is necessary to lengthen the wiring level, the joint should be strictly sealed to prevent leakage of water and electricity.

15).After the pump is turned off, the pump can be lifted out of the water when the motor cools down to normal temperature to ensure safety.

8. Troubleshooting

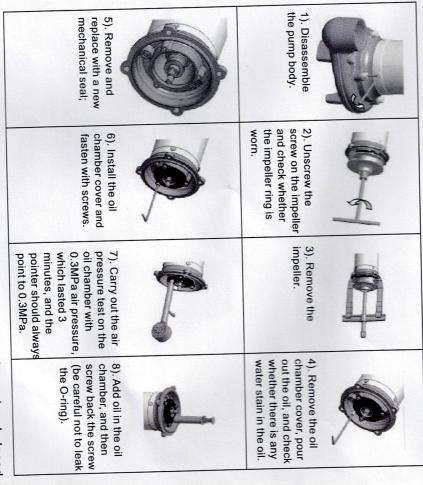


Please shut down the power before repairing the water pump.

The p sudde	Flov	Start-up difficult	Pro
The pump suddenly stops.	Flow is low.	Start-up is difficult.	Problem
 Protector is activated or fuse is burnt; Impeller is clogged; Stator winding is damaged. 	 Head is too high; Pump inlet is clogged; Impeller is damaged; Immersion depth is not enough; Impeller runs in reverse direction. 	 Voltage is low; Phase loss (for 3 phase); Impeller is clogged; Voltage drop of the cable is high; Stator winding is damaged. 	Likely Cause
 Check voltage; Clean impeller; Return pump to the service center or factory. 	 Refer to the recommended head range; Clean pump inlet; Replace impeller; Adjust the immersion depth (more than 0.5 m); Exchange any 2 phases of a 3-phase pump. 	 Adjust voltage to the rated value ±6%; Check wires, cable and plug; Clean impeller; Select a proper cable; Return pump to the service center or factory. 	Solution

7. Maintenance

- 1). Regularly check the insulation resistance between the electric pump winding and the casing. When it is close to the working temperature, the insulation resistance must be greater than $50M\Omega$ (megaohm), otherwise, corresponding measures must be taken to meet the requirements before use.
- The maintenance of the electric pump should be carried out according to the following steps:



If the pump is not used for a long time, it should be cleaned and placed in a dry and ventilated place.