



**VP 300**



<b>D</b>	GEBRAUCHSANWEISUNG
<b>PL</b>	INSTRUKCJA UŻYWANIA
<b>BG</b>	ИНСТРУКЦИЯ ЗА УПОТРЕБА
<b>H</b>	HASZNÁLATI UTASÍTÁS
<b>RO</b>	INSTRUCTIUNI DE UTILIZARE
<b>SK</b>	UŽÍVATEĽSKÁ PRÍRUČKA
<b>CZ</b>	UŽÍVATEĽSKÁ PRÍRUČKA
<b>GB</b>	OPERATING INSTRUCTIONS

## 1. OPERATING INSTRUCTIONS

VP 300 type vibration submersible pump (further on: pump) can be used for pumping out subsurface waters (from dug or drilled wells) if the inner diameter of the well is at least 110 mm.

When pumping out surface waters (lakes, cisterns, barrels), it must be taken into account that at least 1 m water height from the bottom of the pump must always be provided.

**The electric network must be equipped with overcurrent protection of 30 mA sensitivity (FI relay DIN VDE 01100T739).**

The pump's permanent working pressure is 4 bar as a result of which it is suitable for supplying continuous-flow irrigation plants, domestic water supply systems equipped with pressure switch (pressure reservoir).

### 1. SPECIFICATIONS

Supply voltage:	U = 230 V / 50 Hz
Current input:	I <sub>max</sub> = 4.2 A
Power input:	P <sub>max</sub> = 300 W
Category of shock protection:	IP X8
Class of protection:	I.
Protection against water penetration:	IP X8
Maximum water delivery:	Q <sub>max</sub> = 1200 l/h
Maximum delivery head:	H <sub>max</sub> = 60 m
Working nominal water delivery/ Delivery head:	400 l/h / 40 m
Working depth min./max.:	min. 0.5 – max. 5 m
Size: diameter/height	100/300 mm
Mass: (without cable)	3.75 kg
Working position:	vertically suspended
Working time / break:	45 min / 15 min
Noise level (measured from 1.5m distance):	78 dB

### 2. STRUCTURE AND OPERATION OF THE PUMP

The pump consists of three principal sections: cover, vibrator unit, bottom section. The suction port, the foot valve as well as the delivery connection are located on the cover.

When turning the pump on, the vibrator located above the alternating-current electromagnet begins to vibrate axially. When the plunger moves downward, the water will flow into the upper chamber of the cover through the foot valve.

When the plunger returns, the valve will shut down, so the water will get into the delivery pipe from the upper chamber of the cover. Owing to the frequent repeat of this process, the water will flow continuously under pressure.

**The pump can only be used from an earthed mains socket!**

### 3. INSTALLATION OF THE PUMP

**The pump can exclusively be used in vertical position!**

If you place the pump in a well, it must be installed not more than 0.5m from the bottom of the well, but it is reasonable to place it in the middle of the water column.

A ¾" hose of at least 6 bar pressure resistance must be connected to the delivery connection by means of a clamp. It is recommended to use two pipe clamps.

The suspending wire cable or plastic wire of at least 500 N load capacity must be fastened to the lug found on the cover in such a way that the pump hangs vertically.

**It is forbidden to suspend the pump via the hose or the power cable!**

Bundle ca. each 2 m of the cable, the hose and the suspending wire by means of insulating tape or plastic clamp in such a way that the electric cable does not strain.  
In drilled wells, apply protective rubber ring for the protection of the pump and the wall of the well. It can be pulled up on the pump casing.

## 5. SAFETY REGULATIONS

**“This device is not intended for use by persons having deficient physical, sensing or mental ability or persons not having experience or knowledge (including children), unless they are supervised and informed by a person who at the same time is responsible for their safety as well.”**

**For children the supervision is recommended in order to ensure that they do not play with the device.”**

The pump meets the standards and regulations of the European Union.  
It is certified by the “CE” sign placed on the data plate.

- **The pump can only be connected to the mains by a two-pin wall plug through an earthed socket equipped with an individual fuse of 6 A.**
- The electric network must be equipped with an overcurrent protection of 30 mA sensitivity (Fi relay DIN VDE 01100T739).
- It is forbidden to touch the pump when it is turned on!
- It is forbidden to lift the pump by the electric cable!
- **In the event of failure, the mains connection cables must be made replaced by the manufacturer, repair service or another qualified person.**

## 6. OPERATION

Under normal operating conditions, the pump will deliver water in a quantity in accordance with its characteristic curve, depending on the delivery head. If the pump does not deliver water within a short time (max. 30 sec) from its turning on, stop it immediately and contact the repair service. During the operation, a water column of at least 0.5m high must always be ensured above the pump if possible. If the pump delivers for a pressure reservoir, the pressure switch must be adjusted in such a way (0.8-1.8 bar) that the total load of the pump does not exceed 4bar. It is forbidden to pump sewage, water of higher temperature than 35°C, or water containing sludge, sand or gravel, or any other liquid except for water. It will cause a characteristic failure of the pump if the water flow path is blocked up consciously (stopcock at the end of the spraying hose) or by mistake (the spraying hose twists). In these cases, the air existing in the inner part of the pump and ensuring continuous operation will be pressed out, certain air chambers will be filled with water, and the pump will “burn off”.

## 7. MAINTENANCE

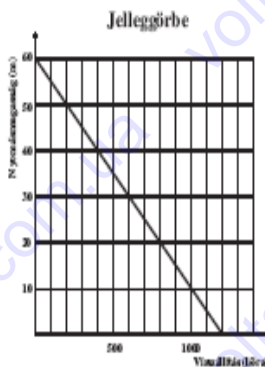
**During the guarantee period any repair can only be performed by the brand's repair service!**

Following the guarantee period, you may replace the plunger and the foot valve in your workshop if they fail. In order to do it, release the four external screws which are factory tightened with 6-Nm torque. After replacing the foot valve or the plunger, tighten the screws similarly with 6-Nm torque. Use only washers of external toothing.

**It is absolutely forbidden to repair the electric unit in your workshop, including the repair of the electric cable as well. Any repair can only be performed by the special repair service through the replacement of the whole electric unit.**

Troubleshooting:

TROUBLE	POSSIBLE CAUSE	REMOVAL
The water flow has decreased and the pump operates without almost any noise.	The supply voltage has decreased.	Turn off the pump.
The flow and the pressure of the water have suddenly increased.	The supply voltage has increased.	Turn off the pump.
The water flow has decreased but the pump noise has increased.	The plunger has worn out, or lack of water or axle fracture has occurred.	Replace the plunger. Contact a special repair service.
The water flow has decreased but the pump noise has not changed.	The foot valve has worn out, or lack of water has occurred.	Replace the foot valve.
The automatic protection turns off when the pump is turned on.	The pump has a short circuit.	Contact a special repair service.



Characteristic  
 Delivery head (m)  
 Flow volume (l/min)

## **8. Disposal of superseded electric and electronic devices as waste (To be used in the selective waste collection system of the European Union and other countries)**



This symbol on the device or the packaging indicates that the product shall not be managed as household waste. Please dispose of it at the collecting place assigned for the collection of electrical and electronic devices. By proper management of superseded products you can help prevent the environment and human health from damage which would occur if you do not follow the proper way of waste disposal. The recycling of the materials helps in the preservation of the natural resources. For further information on the recycling of the product, please turn to the competent authorities, the local waste collecting service provider or the shop where this product was bought.

### **Information concerning the packaging materials**

The used packaging materials must be thrown into the relevant waste collector.

## **9. ACCESSORIES**

1. Pump
2. Operating instructions
3. Guarantee note

## **10. DECLARATION**

ELPUMPS Ltd (21, Szamári Street, Fehérgyarmat, 4900, Hungary) certifies CE conformity of the product and that the pump VP 300 complies with the technical data specified in the data plate and the “Operating instructions”.

Water delivery (l/hour)