

Wilo-Drain VC 32 / VC 40

- D Einbau- und Betriebsanleitung**
- GB Installation and Operating Instructions**
- F Notice de montage et de mise en service**

RUS Инструкции по вводу в эксплуатацию и монтажу

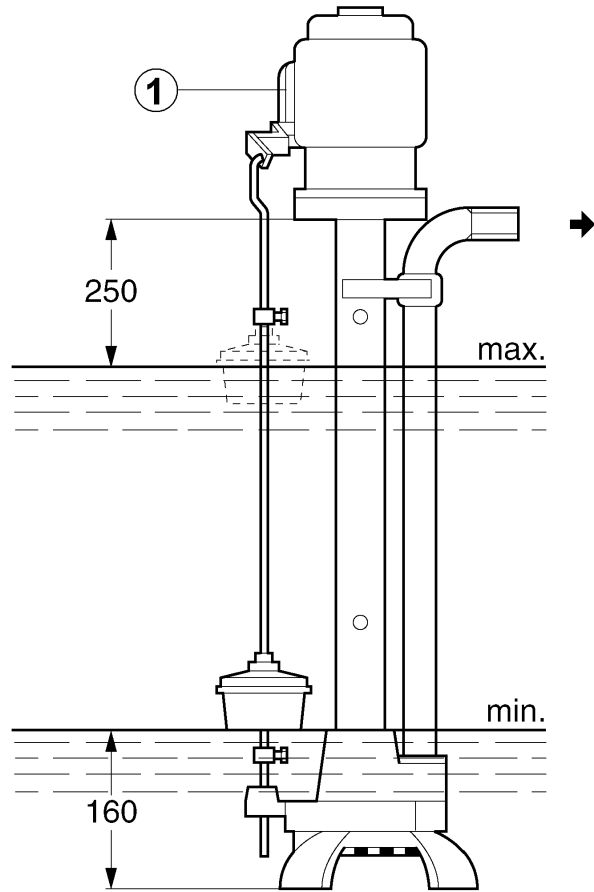


Fig. 1

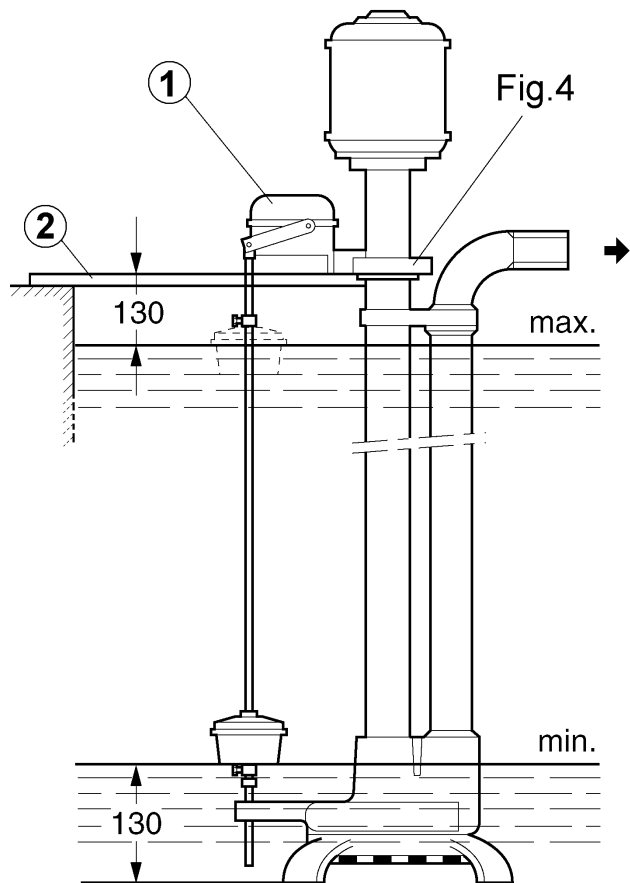


Fig. 2

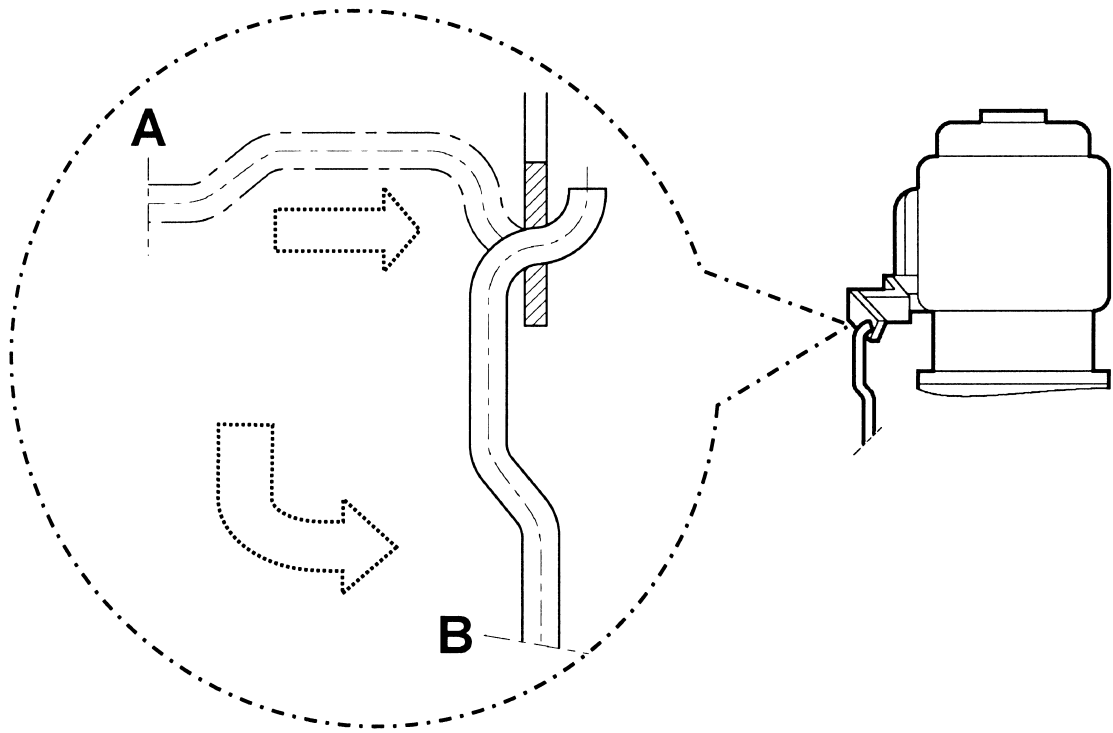


Fig. 3

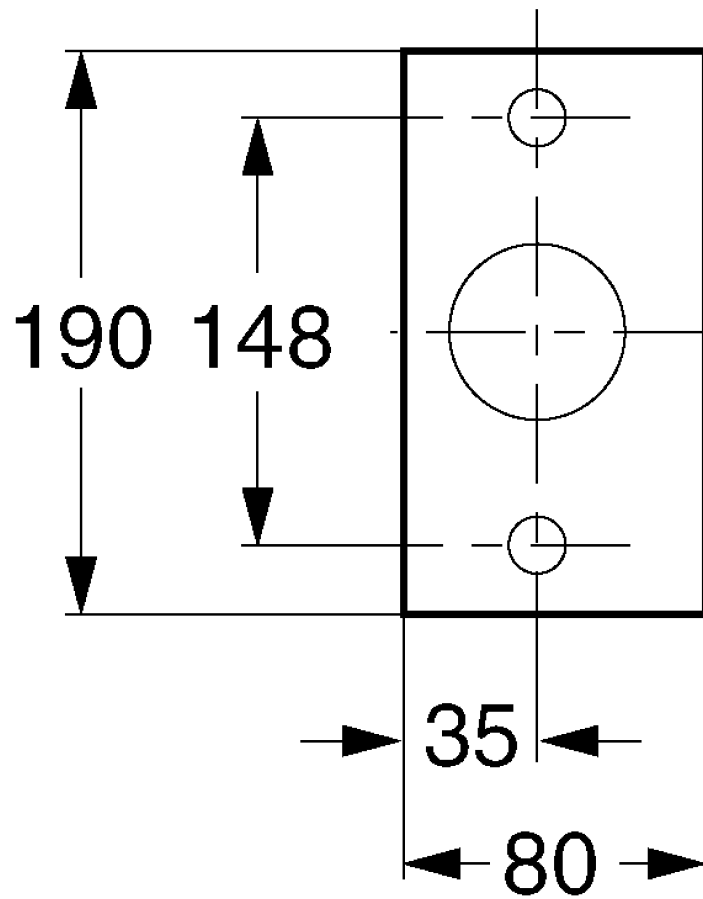


Fig. 4

VC 32

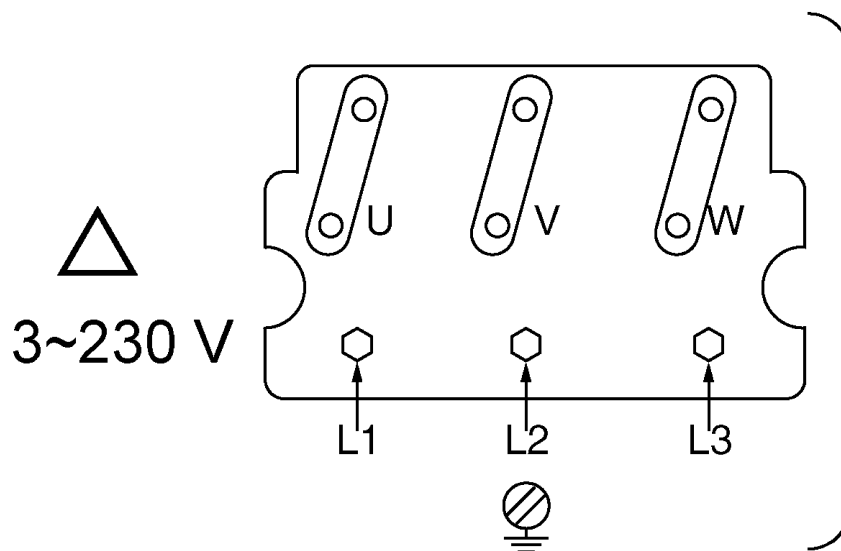
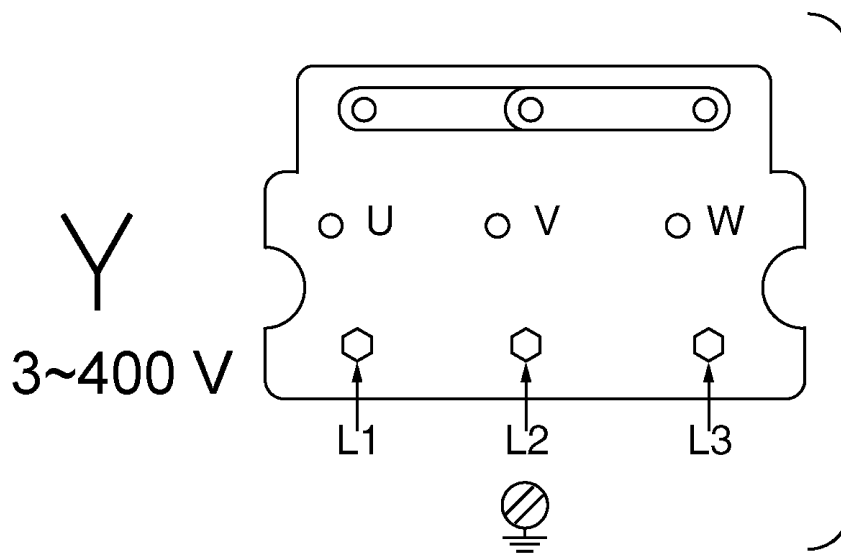
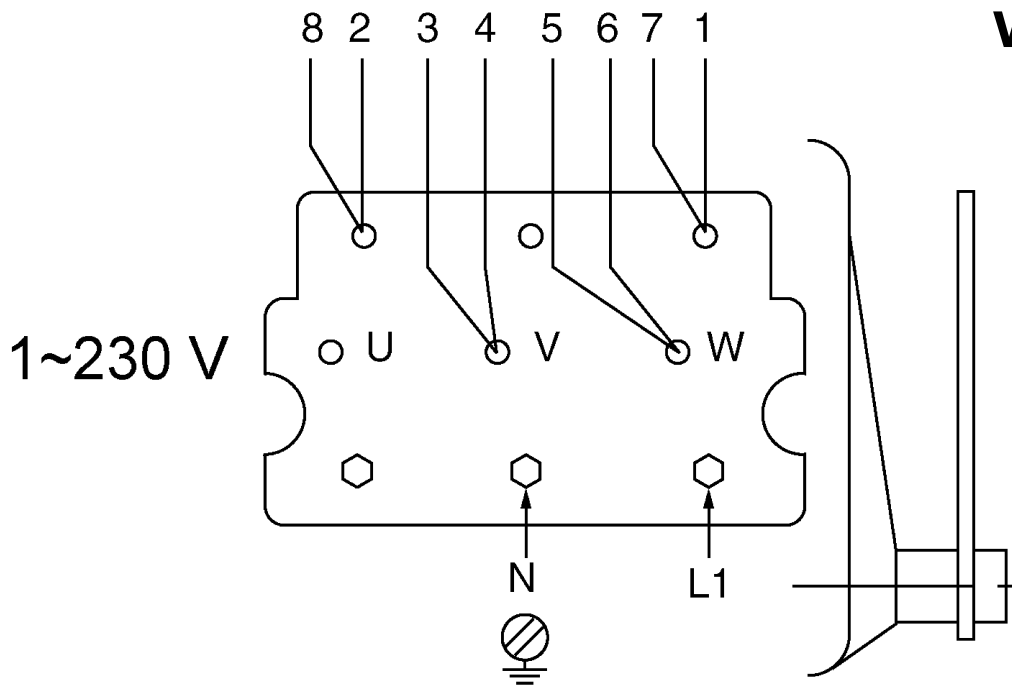


Fig. 5



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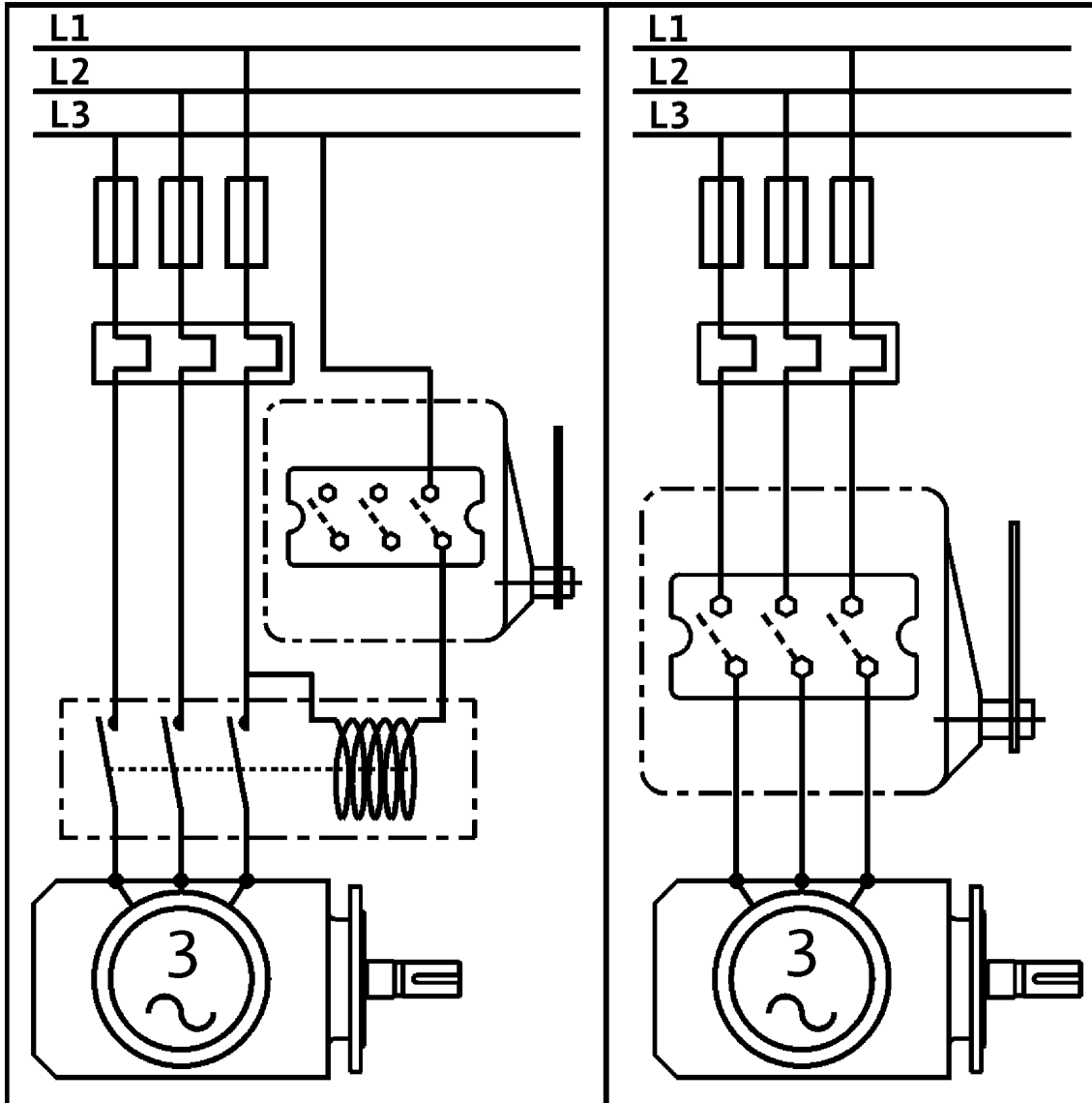


Fig. 6

medium. The stop-adjustable float switch automatically ensures correct operation of the pump.

VC 32: switch on motor terminal box (Fig. 1, pos. 1)

VC 40: separately mounted switch box (Fig. 2, pos. 1)

4.2 Products delivered

- VC pump complete with built-in float switch
- Installation and operating instructions

4.3 Accessories

Accessories must be ordered separately.

- Non-return valve
- Shut-off fittings
- Pipe screws
- Flange / counter flange

5 Assembly / Installation

5.1 Assembly (Fig. 1, 2)

Place the pump complete with built-in float switch upright in a shaft or other container on a flat, fixed surface.

- Maximum shaft depth 950 mm, motor and switching appliance **must not** be flooded. Minimum shaft dimensions 450 x 450 mm.
- The pump must be installed in a frost-free place.
- The shaft must be free from coarse solids (e.g. building rubble) prior to installation and commissioning.
- The float switch must be free to move unhindered.
- Fixing the float switch connecting rod (Fig. 3):
 - Place the indented end of the float rod into the hole provided on the switching lever horizontally (A) then move down to a vertical position (B).
 - Pull the switching lever and float rod up to the highest switch setting and gently bend the lower end of the rod into the hole provided in the pump housing.

To set the pump switch-on and switch-off points, adjust the fixing screws on the float stops.

- The VC 40 pump can be fixed into 2 horizontal shaft covering halves (Fig. 2, pos. 2) using a fixing flange (Fig. 4).

- ATTENTION!** - **Always ensure that the connection cable does not become damaged when lowering the pump into the shaft.**
- **Do not use the cable to lower the pump!**
 - **Vertical position only.**
 - **For outdoor assembly, all piping, valves, electronic controls, etc. must be suitably protected from frost and all other damage.**

5.2 Hydraulic connections

- Switch the electricity supply off before connecting the pressure pipe to the pump.
 - Diameter of the pressure pipe connection VC 32: 1" VC 40: 1½"
- Connect the pump ensuring that
 - the weight of the pump is not bearing down on the pressure pipe connection
 - the load of the pressure pipe does not act on the connecting sleeve.
- The customer must ensure the pipe weights are supported.

5.3 Electrical connection

The electrical connection should be made by a qualified electrician. Current national regulations must be observed (e.g. VDE regulations in Germany).

- Ensure all electrical installations comply with the IEC 364 standard and that the mains supply is equipped with a residual current operated circuit-breaker of max. 30 mA.
- Mains fuse 16 A, time-lag

- Ensure that the increased starting currents of
 - 1~Motor, 4 to 5 times the nominal motor current, and
 - 3~Motor, 6 to 7 times the nominal motor current,
 are drawn off by the mains network.
- The electrical connection must be made before the pump is lowered into the shaft.
- Check that the mains current and voltage comply with the data on the rating plate.
- The pump must be earthed in compliance with regulations.
- Assignment of supply terminals (Fig. 5) (Fig. 6) :

Single-phase motor

- VC 32: 1~230 V

Connect the electricity directly to the motor terminal box:

N, L1, PE: connector cables required: 3 x 0.75 mm²

Factory-assigned: 1 = black, 2,3 = white, 4 = red,

5 = yellow, 6 = blue, 7 = brown, 8 = green

Three-phase motor

- VC 32: 3~230 V

Connect the electricity directly to the motor terminal box:

L1, L2, L3, PE connector cables required: 4 x 0.75 mm²

- VC 40: 3~400 V

Connect the electricity directly to the motor terminal box:

L1, L2, L3, PE connector cables required: 4 x 1.55 mm²

- For three-phase motors it is advisable to install a motor safety switch. Set the nominal motor current in accordance with the rating plate data.
- **Direction of rotation** (only for three-phase motors)

The correct direction of rotation must be tested **before** the pump is submerged. The correct direction of rotation is indicated by a directional arrow on the motor.

If the direction of rotation is incorrect, 2 of the mains connection phases must be switched.

6 Operation

The pump must never be used to empty a swimming pool while there are still bathers in the water.

6.1 Filling and ventilating the unit

- The water level may not be reduced below the minimum immersion depth of the pump housing. The level control must be set at the minimum level: Fig. 1/2.
- The pump can only be filled and bled when the pump housing is fully immersed.
- Always ensure the float can move freely.

6.2 Start of pump operation

- Start the pump and ensure that the built-in shut-off fittings are open.

ATTENTION! Do not allow the pump to run dry! The pumping liquid lubricates the friction bearing.

- The float switch will now automatically ensure correct operation of the pump.
- Check the current consumption. The current consumption must comply with the data on the rating plate.

7 Maintenance

Prior to maintenance or repair work, turn off the pump and ensure that it is not turned on by unauthorised personnel.

This pump requires practically no maintenance at all. Should the impeller become blocked with solids, proceed as follows:

- Detach the pump from the pressure pipe connection.

– Remove the pump from the shaft and rinse it carefully using clear water before touching it (never underestimate the risk of infection!).

– Set the pump down, loosen the 3 filter fixing screws, remove the base and disassemble the cover.
– If possible do not remove the impeller to clean it.

8 Problems, Causes and Remedies

Problems	Causes	Remedies
8.1. Pump does not run	<ul style="list-style-type: none"> a) Electricity supply cut off b) Winding or cable damaged c) Rotor blocked (motor buzzing) d) Motor defect 	<ul style="list-style-type: none"> a) Check wires If necessary replace fuses. Switch on the circuit breaker and mains switch. b) Check cable resistance and if necessary replace cable. Attention: when replacing, match the phases up exactly according to colour. c) Clean the impeller (see Chapter 7). d) Replace the motor
8.2. Pump works insufficiently or not at all	<ul style="list-style-type: none"> a) Inlet filter blocked b) Wrong direction of rotation c) Pressure pipe blocked d) Impeller blocked by foreign body e) Shut-off valve on outlet side closed or not fully open. 	<ul style="list-style-type: none"> a) Remove and clean filter b) Interchange two of the mains connection phases c) Remove and clean piping d) See 8.1-c e) Check shut-off valve and open where necessary
8.3. Pump stops	<ul style="list-style-type: none"> a) Electronic installation fault b) Pump blocked c) Pump sluggish 	<ul style="list-style-type: none"> a) Check entire electronic installation b) See 8.1-c c) See 8.1-c

If no solution can be found, please contact your plumbing and heating specialist or your nearest WILLO customer services team or representative.



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