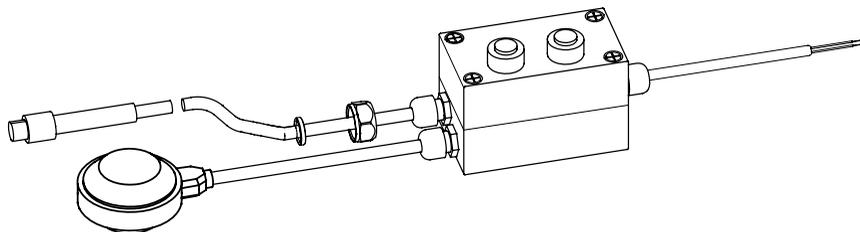
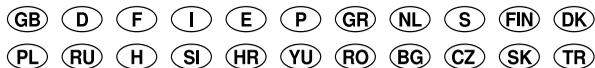

Unilift AP12, AP35, AP50

Control box

Installation and operating instructions



Unilift AP12, AP35, AP50

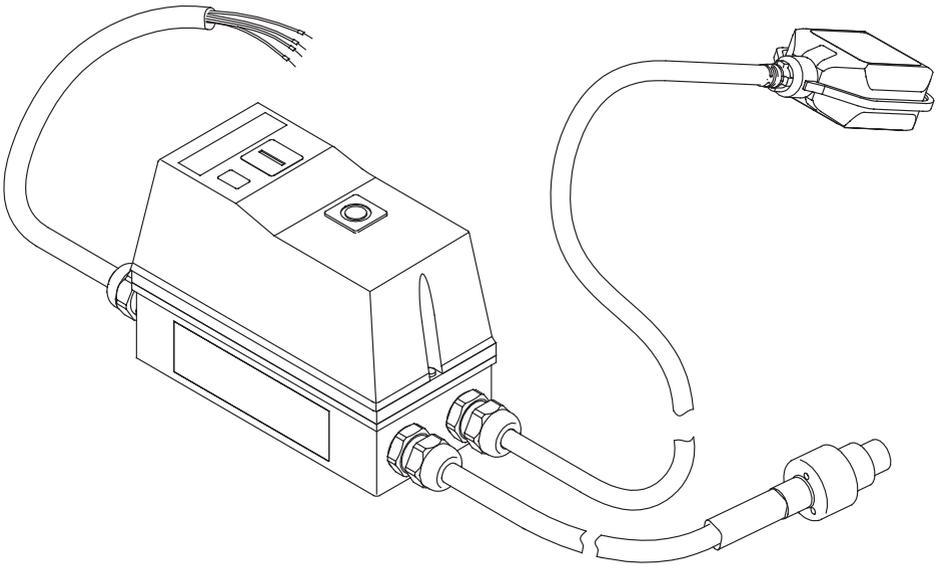
Control box

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UNILIFT AP, APB and APG

Control box

Installation and operating instructions



UNILIFT APG
Installation and operating instructions
(all available languages)
<http://net.grundfos.com/qri/92662011>



UNILIFT AP12, AP35, AP50
Installation and operating instructions
(all available languages)
<http://net.grundfos.com/qri/96011045>



UNILIFT AP35B, AP50B
Installation and operating instructions
(all available languages)
<http://net.grundfos.com/qri/96004693>

UNILIFT AP, APB and APG

English (GB)

Installation and operating instructions 4

English (GB) Installation and operating instructions

Original installation and operating instructions

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1. General information

This appliance shall not be used by children.

Children shall not play with the appliance. Cleaning and user maintenance shall not be carried out by children.



Appliances can be used by persons with reduced physical, sensory, or mental capabilities, as well as persons with a lack of experience and knowledge. This requires that they are given supervision or instruction concerning the use of the appliance in a safe way and that they understand the hazards involved.



Read this document before you install the product. Installation and operation must comply with local regulations and accepted codes of good practice.

1.1 Hazard statements

The symbols and hazard statements below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.



DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious personal injury.



WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.



CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

The hazard statements are structured in the following way:



SIGNAL WORD

Description of the hazard

Consequence of ignoring the warning

- Action to avoid the hazard.

1.2 Notes

The symbols and notes below may appear in Grundfos installation and operating instructions, safety instructions and service instructions.



A blue or grey circle with a white graphical symbol indicates that an action must be taken.



A red or grey circle with a diagonal bar, possibly with a black graphical symbol, indicates that an action must not be taken or must be stopped.



If these instructions are not observed, it may result in malfunction or damage to the equipment.

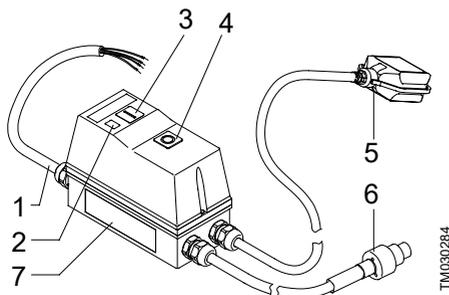


Tips and advice that make the work easier.

2. Product introduction

2.1 Product description

The control box consists of cables and a cabinet containing various parts which allow control of the connected pump.



TM030284

Pos.	Description
1	Mains cable
2	Indicator light, operation
3	Push-button, Start
4	Push-button, Stop/Reset
5	Float switch
6	Motor cable ¹⁾
7	Nameplate

¹⁾ There are three types of cable:

- 1) UNILIFT AP12, AP35 and AP50
- 2) UNILIFT AP35B and AP50B
- 3) UNILIFT APG.

2.2 Intended use

The control box is designed for the protection and start/stop of the following three-phase pump types:

- UNILIFT AP12
- UNILIFT AP35
- UNILIFT AP50
- UNILIFT AP35B
- UNILIFT AP50B
- UNILIFT APG.

3. Installation requirements

For adjustment of the float switch, see the installation and operating instructions for the pump.



A product that is not indicated to be protected against freezing shall not be left outside in freezing weather conditions.

4. Electrical connection

WARNING Electric shock

Death or serious personal injury



- Switch off the power supply before you start any work on the product. Make sure that the power supply cannot be switched on accidentally.

WARNING Electric shock

Death or serious personal injury



- The installation must be fitted with a residual-current device (RCD) with a tripping current less than 30 mA.

WARNING Electric shock

Death or serious personal injury



- Make sure that the power supply plug delivered with the product is in compliance with local regulations.
- The plug must have the same protective earth (PE) connection system as the power outlet. If not, use a suitable adapter if allowed by local regulations.

WARNING Electric shock

Death or serious personal injury



- Power cables without a plug must be connected to a supply disconnecting device incorporated in the fixed wiring according to the local wiring rules.
- If the power cable is damaged, it must be replaced by the manufacturer, the manufacturer's service partner or a similarly qualified person.

CAUTION Electric shock

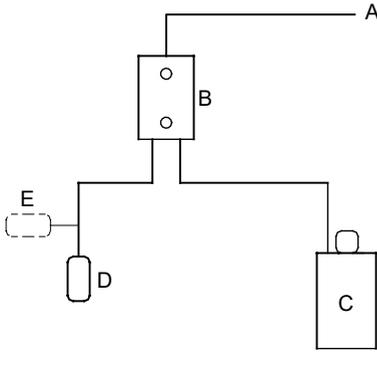
Minor or moderate personal injury



- Check that the mains voltage and frequency stated on the pump nameplate correspond to the electricity supply on which it will be used.



The control box must be connected to an external main switch. If the pump is not installed close to the main switch, this must be of a lockable type.



TM011267

Block diagram for level control

Pos.	Description
A	Power supply
B	Control box
C	Pump
D	Level switch open
E	Level switch closed

4.1 Wiring diagram



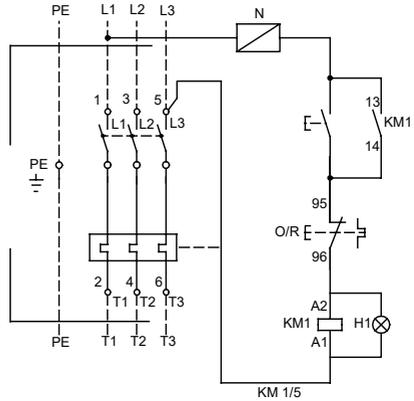
WARNING Electric shock

Death or serious personal injury

- Switch off the power supply before you start any work on the product.

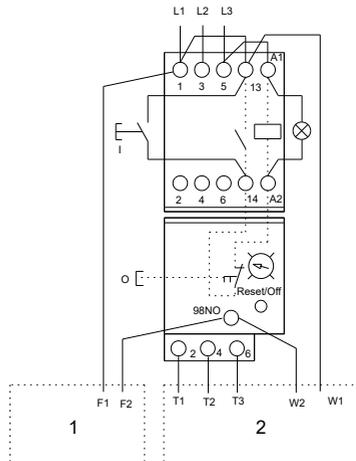


The user or the installer is responsible for correct earthing and protection according to local regulations.



TM030287

Diagram for UNILIFT AP, APB control box



TM082186

Diagram for UNILIFT APG control box

Pos.	Description
1	Float switch
2	Motor

5. Startup of the product

The control box incorporates a three-phase contactor with a thermal relay. The contactor is cut in and cut out by a float switch, and thus starts and stops the pump. When the contact in the float switch is closed, the contactor operates, and the pump starts.

5.1 Starting and stopping the pump

1. Press the **Start** button.
 - a. If the float switch contact is closed, the pump starts.
 - b. If the float switch contact is open, the pump remains stopped.
2. Press the **Stop/Reset** button.
 - a. If the float switch contact is closed, the pump stops.
 - b. If the float switch contact is open, the pump stops.

5.2 Resetting the thermal relay

If the thermal relay has tripped, it can be reset by briefly pressing the **Stop/Reset** button.

- If the float switch contact is open, the thermal relay is cut in, but the pump remains stopped.
- If the float switch contact is closed, the thermal relay is cut in, and the pump starts.

6. Control functions

6.1 Operating panel

The control box has two push-buttons: one for starting the pump and one for stopping the pump and resetting the thermal relay.

Symbol	Description
	TM030285 Start button for the pump
	TM030286 Start/Reset button for the pump

7. Technical data

Enclosure class	IP65 (IEC 60529)
Min./max temperature	0-40 °C

8. Maintenance

WARNING Electric shock

Death or serious personal injury



- Switch off the power supply before you start any work on the product.
- Make sure that the power supply cannot be switched on accidentally.

WARNING Electric shock

Death or serious personal injury



- All electrical connections must be carried out by a qualified electrician in accordance with local regulations.

Check the tightness of all electrical connections inside the control box once a year.

9. Service

No service parts are available for the control box.

10. Disposing of the product

This product or parts of it must be disposed of in an environmentally sound way.

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.



The crossed-out wheeled bin symbol on a product means that it must be disposed of separately from household waste. When a product reaches its end of life, take it to a collection point designated by the local waste disposal authorities. The separate collection and recycling of such products will help protect the environment and human health.

See also end-of-life information at www.grundfos.com/product-recycling.

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