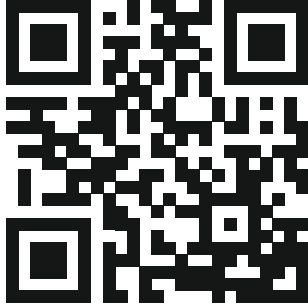


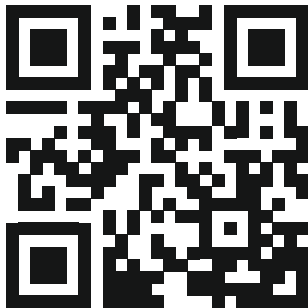
Wilo-Initial DRAIN & WASTE



en Installation and operating instructions



Initial DRAIN
<https://qr.wilo.com/407>



Initial WASTE
<https://qr.wilo.com/408>

Fig. 1: Product overview Initial DRAIN and Initial WASTE



Fig. 2: Stationary wet installation

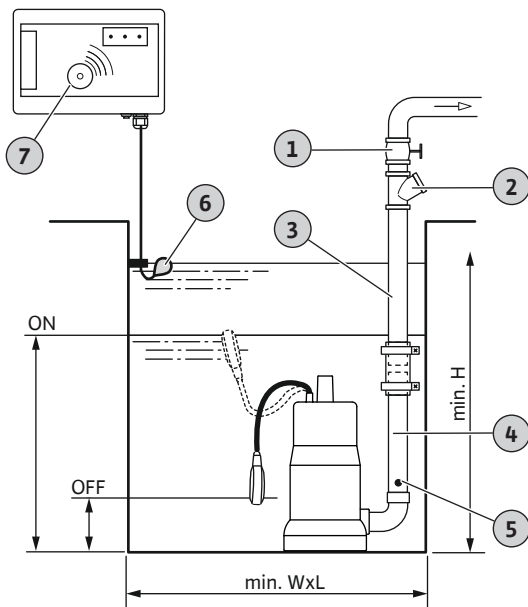
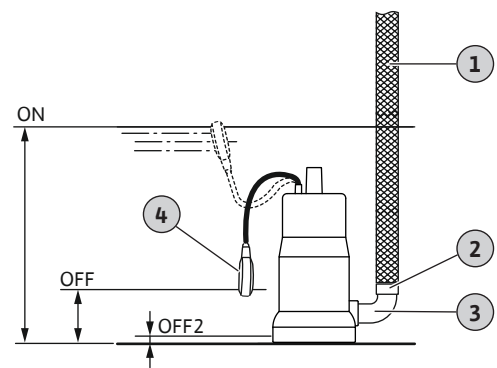


Fig. 3: Transportable wet installation



	Initial DRAIN	Initial WASTE
ON	380 mm (15 in)	430 mm (17 in)
OFF	130 mm (5 in)	180 mm (7 in)
WxL	450 x 450 mm (18 x 18 in)	
H	430 mm (17 in)	480 mm (19 in)

	Initial DRAIN	Initial WASTE
ON	380 mm (15 in)	430 mm (17 in)
OFF	130 mm (5 in)	180 mm (7 in)
OFF2	20 mm (0.8 in)	40 mm (1.6 in)
WxL	450 x 450 mm (18 x 18 in)	
H	430 mm (17 in)	480 mm (19 in)

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1 Safety

1.1 About these instructions

These instructions are a part of the product. Obey the instructions for correct handling and use:

- Read the instructions carefully before starting any works.
- Keep the instructions in a location where it is easy to access.
- Forward the instructions on to any future owner.
- Follow the product specifications.
- Follow the markings on the product.

Not obeying these instructions results in:

- Danger to persons or damage to property
- Loss of claims for damages

1.2 Copyright

WILO SE © 2025

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1.3 Safety signs, instructions, and text markups

The safety instructions are structured as below:

- Danger to persons: signal word, safety symbol, text, and a shaded grey background.
- Property damage: signal word and text.

Signal words

- **DANGER!**
Disregarding these instructions leads to death or serious injury.
- **WARNING!**
Disregarding these instructions leads to (serious) injury.
- **CAUTION!**
Disregarding these instructions leads to property damage or even a total loss.
- **NOTICE!**
Useful information for handling the product.

Text markups

- ✓ Precondition

1. Work step/list
 - ⇒ Notice/instructions
 - Result

Overview of safety symbols



Danger of death because of electric shock



Danger of death because of explosion



Danger because of bacterial infection



Warning – risk of hand injuries (cutting, squeezing)



Useful information

1.4 Staff qualifications

- Persons 16 years and older.
- Users must read and understand these instructions.

Persons (incl. children) with limited abilities

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack

of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

1.5 Protective equipment for staff

The mentioned branded articles are non-binding suggestions. Equivalent products from other brands can also be used. WILO SE accepts no liability for the articles mentioned regarding their conformity to the applicable standards.

Protective equipment: transport, installation, removal, and maintenance

- Safety shoes: uvox 1 sport S1
- Safety gloves: uvox phynomic wet

Protective equipment: cleaning work

- Safety gloves: uvox profapren CF33
- Safety glasses: uvox skyguard NT
- Wear a respiratory mask (e.g. Half mask 3M series 6000 with filter 6055 A2).

1.6 Fluids hazardous to health

There can be hazardous germs in stagnant water (e.g. pump sump, soakaway ...). There is a danger of bacterial infection.

- Clean and disinfect the product thoroughly after removal.
- Tell all persons about the pumped fluid and the danger.

1.7 Electrical connection

- Only a qualified electrician is permitted to do the electrical work.
- Do not connect products with a damaged connection cable. To replace the damaged cable, contact a qualified electrician or customer service.
- The mains connection has a protective earth conductor. Obey local regulations.
- Install a residual-current device (RCD) with a trigger current of 30 mA.
- Use fuse protection at the mains connection with a maximum rating of 10 A.
- Disconnect the pump from the supply mains before carrying out user maintenance such as cleaning the filter.

2 Product description and function

2.1 Description

Submersible pump for transportable wet installation in intermittent operation.

Fig. 1: Product overview Initial DRAIN and Initial WASTE – see Page 3

1	Handle
2	Hose nozzle (included at Initial DRAIN) Connection size: Ø24 mm; Ø32 mm
3	Discharge port G 1½ A (ISO 228)
4	Float switch
5	Mains connection cable

Submersible pump with a vortex impeller and a vertical discharge port with threaded connection (male thread). Pump housing and impeller made of composite material. Surface-cooled single-phase AC motor (operating capacitor integrated) with self-switching thermal motor monitoring and a rotary shaft seal. Motor housing made of steel. Connection cable with a float switch and a shock-proof plug.

2.2 Self-switching thermal motor monitoring

If the motor gets too hot, the pump switches off. When the motor has cooled down, the pump restarts automatically.

2.3 Technical data

NOTICE! See the rating plate for technical data.

Operating mode, immersed	S1
Operating mode, non-immersed	S3 25% - Run-time: 2.5 min - Stop-time: 7.5 min
Fluid temperature	3 ... 35 °C (37 ... 95 °F)
Length of connection cable	10 m (33 ft)
Max. immersion depth	5 m (16.5 ft)
IP rating	IP68
Max. switching frequency /h	60/h

2.4 Scope of delivery

- Pump
- Elbow with threaded flange (pre-mounted)
- Hose nozzle (included at Initial DRAIN)
- Installation and operating instructions

3 Application/use

3.1 Intended use

Wilo Initial DRAIN

For the pumping in domestic areas (household) of the fluids listed:

- Wastewater (with small amounts of sand and gravel)
 - Rainwater
 - Pond and river water

Wilo Initial WASTE

For the pumping in domestic areas (household) of the fluids listed:

- Sewage **without** faeces
 - Wash basin
 - Shower/bathtub
 - Washing machine
- Wastewater (with small amounts of sand and gravel)
 - Rainwater
 - Pond and river water

3.2 Improper use



DANGER

Explosion hazard when pumping explosive fluids!

The pump is not designed to pump highly flammable and explosive fluids. There is a danger of death through explosion.

- Do not pump highly flammable or explosive fluids (e.g., gasoline, kerosene, ...).

Do not use the pump for the fluids listed below:

- Untreated sewage
- Sewage with faeces
- Drinking water
- Fluids containing hard ingredients (e.g., stones, wood, metal ...)
- Fluids with a high quantity of abrasive ingredients (e.g., sand, gravel ...)
- Viscous fluids (e.g., oil and grease)
- Sea water

4 Transportation and storage

CAUTION

Property damage through soaked packaging!

Soaked packaging can rip open. If the packaging rips open, the product falls to the ground and is damaged.

- Lift moist or wet packaging carefully.
- Replace soaked packaging immediately.

- Wear protective equipment.
- Always carry the product by the handle.
- Do not pull on the connection cable.
- Clean the product thoroughly.
 - Dirt favours the formation of germs.
 - Encrustations lead to blocking of the impeller.
 - If the product is used in fluids hazardous to health, disinfect the product.
- Tightly seal the suction port and the discharge port.
- Keep the cable safe from damage. (e.g., crushing, kinking).
- Use the original packaging for transport and storage.
- Pack only dry pumps. Wet or moist pumps damage the packaging.
- Permitted storage temperature:
 - Maximum: -15 ... +60 °C (5 ... 140 °F), max. humidity: 90 %, non-condensing.
 - Recommended: 5 ... 25 °C (41 ... 77 °F), relative humidity: 40 ... 50 %.

5 Installation and electrical connection

5.1 Installation

- Wear protective equipment.
- Do not install damaged products.
- Install the product only in a frost-free location.
- If there is a risk of germ formation, follow these points:
 - Keep the area properly ventilated.
 - Wear a respiratory mask (e.g. Half mask 3M series 6000 with filter 6055 A2).
- Lay the connection cable securely. Prevent creating hazardous situations that could lead to tripping or causing damage.
- Float can move freely.

5.1.1 Stationary wet installation

Fig. 2: Stationary wet installation – see Page 3

1	Gate valve
2	Non-return valve
3	Discharge line
4	Discharge pipe with Rp 1½
5	Ventilation drilling (3 mm/US drill bit size: 1/8)
6	Optional: Float switch for high water level
7	Optional: Alarm switchgear, e.g. DrainAlarm
ON	Switching point: pump on
OFF	Switching point: pump off

For stationary wet installation, install the pump directly on the discharge line. Obey these points for installation:

- Make sure that the discharge line is self-supporting and not supported by the pump.
- The diameter of the discharge line is the same or larger than the diameter of the discharge port.
- Make sure that the discharge line is installed frost-proof.
- Seal the pipe connections with Teflon band.

- Install all necessary fittings according to the local regulations (gate valve, non-return valve).
 - When submerging the pump, prevent air bubbles which can cause pumping problems. To vent the pump, follow one of these points:
 - Install an air vent valve before the non-return valve.
 - Drill a 3 mm hole in the discharge pipe above the discharge port.
 - To prevent backflow from the public sewer, install the discharge line with a “pipe loop”.
The lower edge of the pipe loop must be above the locally set backwater level at its highest point.
- ✓ Discharge pipe with Rp 1½ internal thread. Prepared with the length from discharge port to discharge line.
 - ✓ Flexible hose (internal diameter: 50 mm/2 in) for connecting the discharge pipe to the discharge line.
 - ✓ Two pipe clamps (diameter: 45 to 60 mm/1.75 to 2.4 in) for fastening the flexible hose.
1. Screw the discharge pipe into the discharge port.
 2. Put the flexible hose on the discharge pipe.
 3. Put the two pipe clamps on the discharge pipe.
 4. Set up the pump on site.
 5. Slide the flexible hose over the two pipes.
 6. Fasten the flexible hose with the two pipe clamps.
 - ▶ The pump is installed.

5.1.2 Transportable wet installation

Fig. 3: Transportable wet installation – see Page 3

1	Pressure hose
2	Hose nozzle (included at Initial DRAIN)
3	90° elbow (pre-mounted)
4	Float switch
ON	Switching point: pump on
OFF	Switching point: pump off
OFF2	Pump off at deep suction in manual mode

Obey these points for installation:

- Make sure that the pump cannot fall over.
 - Make sure that the pressure hose is securely fitted to the hose nozzle.
 - When submerging the pump, prevent air bubbles which can cause pumping problems. When placing the pump in a filled pit, submerge it at a small angle.
 - To prevent the pump from sinking into soft ground, use a hard surface at the site.
- ✓ Hose nozzle: Rp 1½" external thread with 30 mm (1.2 in) hose connection (included at Initial DRAIN).
 - ✓ Pressure hose: minimum internal diameter 33 mm (1.3 in)
 - ✓ Pipe clamp (diameter: 25 to 50 mm/1 to 2 in) for fastening the pressure hose at the hose nozzle.
1. Screw the hose nozzle (included at Initial DRAIN) fully into the discharge port.
 2. Put the pipe clamp over the pressure hose.
 3. Put the pressure hose on the hose nozzle.
 4. Fasten the pressure hose to the hose nozzle with the pipe clamp.
 5. Set up the pump on site.
 6. Fasten the pressure hose in an applicable location (e.g. drain).
 - ▶ The pump is installed.

5.2 Electrical connection

- The mains connection has a protective earth conductor. Obey local regulations.
- Install a residual-current device (RCD) with a trigger current of 30 mA.
- Use fuse protection at the mains connection with a maximum rating of 10 A.
- Make sure that the mains connection is compatible with the voltage (U) and frequency (f) data on the rating plate.

Do **not** connect the pump under the following conditions:

- The connection cable is damaged.
To replace the damaged cable, contact a qualified electrician or customer service.
- A stand-alone inverter is used.
A stand-alone inverter is used in autonomous power supplies, e.g., solar power supply. An inverter can cause overvoltage. Overvoltage destroys the pump.
- A power strip is used.
- An energy-saving plug is used.
The plug decreases the power supply to the pump. The pump can overheat and be destroyed.
- Do not connect the pump to a frequency converter or a soft starter. The pump is not designed for such operation.
- There is a potentially explosive atmosphere. The pump has no Ex approval.

5.2.1 Single-phase AC design: pump with plug

Depending on the type of plug on the pump, install the applicable socket with earthing contact:

Pump type	Socket type E	Socket type F	Socket type I	Socket type B	Socket type M
Initial DRAIN ... /AEF ...	•	•	–	–	–
Initial DRAIN ... /AI ...	–	–	•	–	–
Initial DRAIN ... /AB ...	–	–	–	•	–
Initial DRAIN ... /AM ...	–	–	–	–	•
Initial WASTE ... /AEF ...	•	•	–	–	–
Initial WASTE ... /AI ...	–	–	•	–	–
Initial WASTE ... /AB ...	–	–	–	•	–
Initial WASTE ... /AM ...	–	–	–	–	•

DANGER! Do not use different type of socket. There is a risk of electric shock if other sockets are used.

5.2.2 Single-phase AC design: connect the pump to a switchgear

Switchgear specification

- Earth connection
Connect the protective earth conductor of the switchgear to the mains.
- Motor protection switch
Use a thermal relay/motor protection switch with temperature compensation, differential trip and reactivation lock. Obey local regulations.
- Main switch (mains disconnection device)
Use a main switch with all-pole disconnection. If the switchgear does not have a main switch, install a stand-alone main switch.

Switchgear connection



DANGER

Danger of death through electrical shock!

Incorrect behaviour during electrical work results in death by electric shock.

- Only a qualified electrician is permitted to do the electrical work.
- Obey local regulations.

1. Cut off the plug from the connection cable.
2. Connect the connection cable to the switchgear as shown in the table below.
3. Set the motor protection switch to the rated current (see rating plate).
 - The pump is connected to the switchgear.

Wire colour	Terminal in switchgear
Brown (bn)	L – live wire (phase conductor)
Blue (bl)	N – neutral wire (neutral conductor)
Green/yellow (gn-ye)	PE – earth wire (protective earth conductor)

6 Commissioning

6.1 Before switching on the pump

Examine these points before starting the pump:

- Electrical connection: is the plug type the same as the socket type?
- Connection cable laid correctly (no tripping points, no damage)?
- Float switch move freely?
- Fluid temperature correct?
- Max. immersion depth?
- No deposits in the pump sump?
- Shut-off valve in the discharge line is open?

6.2 Switching on and off



NOTICE

When plugged into the socket, the pump can start automatically

Depending on the fill level, the pump **can** start immediately.

- Recommendation: install a switch to turn the socket on and off.

1. Put the plug into the socket.
 - ⇒ The pump switches on and off automatically depending on the fill level.
2. Float up: pump on.
3. Float down: pump off.

6.3 Test run

Stationary installed pumps (e.g., in a soakaway, pit, etc.) must be subjected to a test run. The test run is used to examine the basic conditions (switching points, tightness of the pipework). A test run includes three pumping cycles.

- ✓ The gate valve in the discharge line is open.
- ✓ A water source with clean water is available to simulate the in-flow of water.

1. Flood the pit with water.
2. The "ON" level is reached: the pump starts.
3. The "OFF" level is reached: the pump stops.
4. Do steps one to three two times.
 - After three pump cycles, the test run is finished. Switch to automatic mode: Open the gate valve in the inlet.

6.4 During operation



DANGER

Danger of death through electrical shock in walk-in basins!

Do not switch on the product when people are in touch with the pumped fluid. If a failure occurs, there is a danger of death through electric shock.

- Only switch on the pump when there are no persons in the fluid.

While it is in use, examine these points:

- Pump does not run dry. Dry running leads to a total loss. Switch off the pump when the minimum water level is reached.
- Float switch works correctly.
- Connection cable is not damaged.
- Pump has no deposits and incrustations
- If the pump does not start each week, start a test run each month.

Walk-in basins

Walk-in basins are installation sites that can be directly walked on without tools (e.g. ladders):

- Garden ponds
- Swimming ponds
- Soakaway

NOTICE! Follow the same regulations for walk-in basins as for Swimming pools.

6.5 Deep suction

- In automatic mode, the "OFF" switching point is as follows:
 - Initial DRAIN: 130 mm (5 in)
 - Initial WASTE: 180 mm (7 in)
- In manual mode, the minimum water level (OFF2) can be decreased as follows:
 - Initial DRAIN: 20 mm/0.8 in
 - Initial WASTE: 40 mm/1.6 in

To use the pump in the manual mode, attach the float switch vertically on the handle. **NOTICE! In manual mode, the pump starts immediately when the plug is inserted into the socket.** When the minimum water level is reached, pull the plug to switch off the pump.

7 Shutdown

When shutting down the pump, follow these points:

- Protect the pump from frost and ice:
 - Fully submerge the pump in the fluid.
 - Min. ambient temperature: +3 °C (+37 °F)
 - Min. fluid temperature: +3 °C (+37 °F)
- To protect the pump from incrustation and clogging, start a test run each month.

CAUTION! If these points are not guaranteed, remove the pump after shutdown.

1. Close all shut-off valves.
2. Switch off the pump.

- Shutdown completed.

8 Removal



DANGER

Danger through bacterial infection!

There can be bacteria and hazardous germs in stagnant water. Follow these points:

- Keep the area properly ventilated.
- Wear a respiratory mask, e.g., Half mask 3M series 6000 with filter 6055 A2.
- Disinfect the pump.

- Wear protective equipment.
 - The motor housing can get hotter than 40 °C (104 °F).
 - Always carry the product by the handle.
 - Cool down the product.
1. Empty the pit.
 2. Close all gate valves.
 3. Switch off the pump.
 4. Disconnect the pump from the mains.
 5. Disassemble the pump from the discharge line.
 6. Remove the pump from the site.
 7. Unscrew the discharge pipe/pressure hose from the discharge port.
 8. Coil up the connection cable and keep it at the pump.
 - Pump removed. Clean the pump and the discharge pipe/pressure hose thoroughly.

9 Cleaning

- Wear protective equipment.
- The protective equipment prevents contact with bacteria and harmful germs.
- Drain the cleaning water to the sewer.
- Use a disinfectant. Follow the manufacturer's instructions:
 - Wear the given protective equipment. If you are not sure, contact your dealer.
 - Give all persons the necessary information about the disinfectant and its correct use.

9.1 Cleaning the pump

1. Pack the plug or bare cable ends watertight.
2. Flush the pump and the connection cable with clean, running water.
3. To clean the impeller and the inner part of the pump, direct the water jet into the discharge port.
4. Also flush the attachments (e.g., discharge pipe, pressure hose) with clean, running water.
5. Flush the dirt left on the floor into the sewer.
6. Dry out the pump.
7. Clean the plug or bare cable ends with a moist cloth!
 - Pump cleaned. Pack the pump and keep it.

10 Maintenance

A general overhaul is necessary after 2000 hours of operation. Contact customer service for maintenance.

11 Faults, causes and remedies

The pump does not start or stops after a short time.

1. Interrupted mains connection.
 - ⇒ Examine electrical connection.
 - ⇒ Examine fuses/residual-current device (RCD).
2. Thermal motor monitoring tripped.
 - ⇒ Cool down the pump. The pump starts automatically.
 - ⇒ Pump starts and stops too frequently. Examine the inflow quantity.
 - ⇒ Fluid temperature is too high. Examine the fluid temperature. Refer to the nameplate for the maximum permitted fluid temperature.
3. Pump clogged (suction port, impeller).
 - ⇒ Clean the pump and the inner part of the pump.
4. The float switch is not working.
 - ⇒ Examine the area around the pump. The float switch must be free to move.

The pump starts but does not pump.

1. The water level is too low.
 - ⇒ Examine the inflow.
 - ⇒ The pump runs too long. The water level is below the minimum level. Examine the level measurement.
2. Pump clogged (suction port, impeller).
 - ⇒ Clean the pump and the inner part of the pump.
3. Discharge line/pressure hose clogged.
 - ⇒ Flush the discharge line.
 - ⇒ Flush the pressure hose.
 - ⇒ Remove kinks in the pressure hose.
4. Non-return valve clogged.
 - ⇒ Clean the non-return valve in the discharge line.
 - ⇒ Replace defective non-return valve.
5. Air in the pump/discharge line.
 - ⇒ Submerge the pump at a small angle.
 - ⇒ Install an air vent valve in the discharge line.
 - ⇒ Drill a 3 mm hole in the discharge pipe above the discharge port

The flow rate decreases while the pump is running.

1. Discharge line/pressure hose clogged.
 - ⇒ Flush the discharge line.
 - ⇒ Flush the pressure hose.
 - ⇒ Remove kinks in the pressure hose.
2. Pump clogged (suction port, impeller).
 - ⇒ Clean the pump and the inner part of the pump.
3. Air in the pump/discharge line.
 - ⇒ Submerge the pump at a small angle.
 - ⇒ Install an air vent valve in the discharge line.
 - ⇒ Drill a 3 mm hole in the discharge pipe above the discharge port

Customer service

If the points listed here do not correct the problem, contact customer service for more information. There can be a charge for this service.

12 Disposal

12.1 Information on the collection of used electrical and electronic products

To prevent damage to the environment and human health, make sure to dispose of and recycle this product correctly.



NOTICE

Do not dispose of the product in domestic waste!

This symbol means that the product must not be disposed of in domestic waste. The symbol is applied to the product or its packaging.

Follow these points for a correct disposal of the product:

- Only return the product to a designated and permitted collection point.
- Obey local regulations.

Consult your local municipality, the nearest waste disposal site, or your retailer for a correct disposal. For additional information on recycling, visit <http://www.wilo-recycling.com>.





Pioneering for You



Local contact at
www.wilo.com/contact

WILO SE
Wilopark 1
44263 Dortmund
Germany
T +49 (0)231 4102-0
T +49 (0)231 4102-7363
wilo@wilo.com
www.wilo.com