SB, SBA

Installation and operating instructions

GRUNDFOS

SB, SBA

English (GB)

Installation and operating instructions 4

Original installation and operating instructions

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1. General Information

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

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.

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.

Observe these instructions for explosion-proof products.

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. Receiving the product

2.1 Inspecting the packaging

On receipt of the product, do the following:

1. Check that the product is as ordered. If the product is not as ordered, contact the supplier.
2. Check that no visible parts have been damaged. If any visible parts have been damaged, contact the transport company.

2.2 Scope of delivery

The box contains the following items:

- 1 pump
- 1 adapter
- 1 installation and operating instructions
- 1 quick guide
- 1 floating inlet strainer, for side inlet variant only
- 1 non-return valve, for SB only.

3. Installing the product

Make sure that the system in which the pump is incorporated is designed for the maximum pump pressure.

This pump has been evaluated for use with water only.

Observe local regulations concerning limits for manual lifting or handling.

CAUTION
Crushing of feet
Minor or moderate personal injury

- Use safety shoes when handling the pump.

DANGER
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 accidentally switched on.

3.1 Location

Install the pump in a frost-free location.

Before the pump is submerged in the well or tank, make sure that the well or tank does not contain sand or solid sediment.

Install the pipe so that the pump is not exposed to mechanical stress.

3.1.1 Maximum installation depth

Read the label on the product.

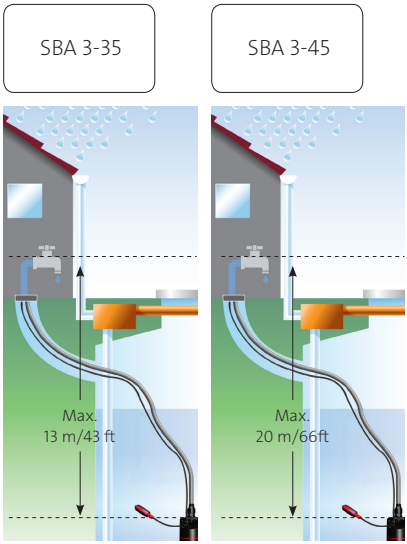
Product	Maximum installation depth [m]
SB	10
SBA	10

3.1.2 Highest tapping point for SBA pumps

Install SBA pumps so that the height between the pump and the highest tapping point does not exceed these values:

SBA 3-35: 13 m.

SBA 3-45: 20 m.



Highest tapping point for SBA

Related information

8.4 Frequent starts and stops

3.1.3 Minimum space

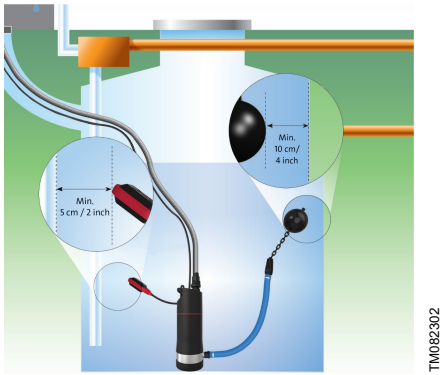
Pumps installed with a float switch require a free space between the float switch and the wall to ensure free movability.

Pumps with side inlet require a free space between the floating inlet strainer and the wall.

If you install the pump in a well or tank, the minimum free space must be as shown in the figure below.

Pumps installed without a float switch require a space that corresponds to the physical dimensions of the pump.

SB and SBA pump with a float switch and side inlet



Minimum space for SB and SBA pump in a well or tank

3.1.4 Adjustment of the float switch

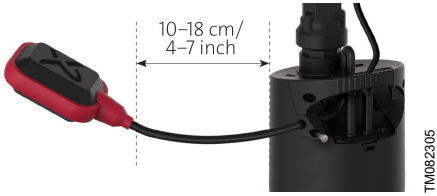
To make sure that the float switch can start and stop the pump, adjust the start and stop level by changing the free cable length between the float switch and the lifting handle.

A reduced free cable length results in more starts and stops and a small difference in level. The minimum free cable length is 10-18 cm. See fig. *Minimum free cable length for float switch*.

- An increased free cable length results in fewer starts and stops and a large difference in level.

Make sure that the float switch can move freely.

Make sure that the stop level does not fall below the pump inlet strainer.



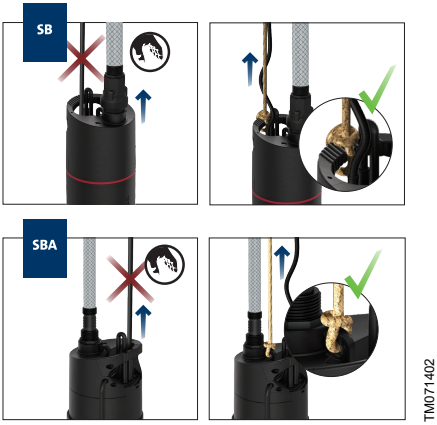
Minimum free cable length for float switch

3.2 Mechanical installation

3.2.1 Lifting the product

Lift the pump by the lifting handle. Never lift the pump by the power cable. Tie a rope to the lifting handle or lifting eye instead.

! Do not lift the product by the power cable. Lift the product by means of a rope.



Lifting the pump

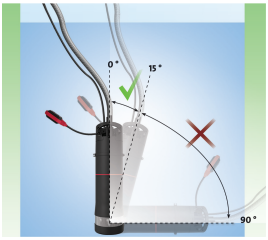
Related information

3.3.1 Pump position of SB and SBA

3.3 Pump position

3.3.1 Pump position of SB and SBA

Use the pump in the vertical position as shown in fig. *Position of SB, SBA pumps*.



TM082310

Position of SB, SBA pumps

Related information

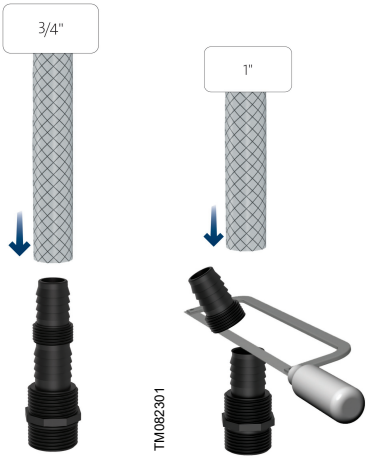
3.2.1 Lifting the product

3.4 Connecting the outlet hose or pipe

Product	External pipe thread [inch]
SB	G 3/4" or 1"
SBA	G 3/4" or 1"

The outlet hose or pipe can be connected to the pump outlet port by means of an adapter. You can also connect a pipe directly to the pump outlet.

SB and SBA pumps include an adapter. Cut off the adapter so that it matches the outlet port diameter.



TM082301

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3.5 Non-return valve for SB pumps

Connect the non-return valve to the SB pump outlet. The non-return valve has G 1" threads for connection to the adapter or the pipe.

TM082297

Non-return valve

3.6 Electrical connection

DANGER
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 accidentally switched on.
- The pump must be earthed.

DANGER
Electric shock
Death or serious personal injury

- The protective earth of the socket outlet must be connected to the protective earth of the pump. The plug must therefore have the same PE connection system as that of the socket outlet. If not, use a suitable adapter.

We recommend that you fit the permanent installation with a residual-current circuit breaker, RCCB, with a tripping current less than 30 mA.

DANGER
Electric shock
Death or serious personal injury

- If the pump is used for cleaning or other maintenance of swimming pools, garden ponds or similar places, make sure that the pump is supplied through a residual-current circuit breaker, RCCB, with a tripping current of 30 mA.

DANGER
Electric shock
Death or serious personal injury

- Connect pumps that are delivered without cable and/or plugs to an external main switch with a minimum contact gap of 3 mm in all poles.

Make sure that there is at least 3 m free cable above the liquid level.

Check that the supply voltage and frequency correspond to the values stated on the pump nameplate.

The electrical connection must be carried out by an authorised electrician in accordance with local regulations.

3.6.1 Thermal protection

The pump has a built-in thermal switch and requires no additional motor protection. If the pump is running without water, or if it is otherwise overloaded, the built-in thermal switch will cut out. When the motor has cooled to normal temperature, it will restart automatically.

3.6.2 Connecting to external controller

SB

SB pumps must be connected to an external controller. We recommend a Grundfos Pressure Manager: *net.grundfos.com/qr/i/97506325*

SBA

SBA pumps have an integrated control unit.

Related information

6.2 SB pumps
6.3 SBA pumps

3.6.3 Power supply failure

In case of a power supply failure, the pump restarts automatically when power returns and runs for at least 10 s.

4. Starting up the product

WARNING
Flammable material
Death or serious personal injury
- Do not use the pump for flammable liquids, such as diesel oil, petrol or similar liquids.

DANGER
Electric shock
Death or serious personal injury
- Do not use the pump in swimming pools, garden ponds or similar places if there are people in the water.

1. Open a tap in the system.
2. Switch on the power supply.
3. Check that the pump is running and water is coming out of the tap.
4. Check that the pump is running and pressure is being built up in the system.
5. Close the tap.
6. Check that pressure has been built up in the system.
7. Check that the pump stops after 10 seconds.

Water is accumulated between the motor housing and cover during submersion. When the pump is stopped and lifted from a submerged position, so the drain holes are above water level, the water is drained from the drain holes located under the red ring.

Connect SB pumps to an external controller.

Related information

8.5 Leaking water from the drain holes

4.1 SBA starting and stopping conditions

When water is consumed in the water supply system, the pump starts when the starting conditions are fulfilled. This happens for example when a tap is opened which makes the pressure in the system drop. The control unit stops the pump again when consumption stops, that is when the tap is closed.

Starting conditions

The pump starts when one of the following conditions is fulfilled:

- The flow rate is higher than the minimum flow rate.
- The pressure is lower than the start pressure.

Stopping conditions

The pump stops with a time delay of 10 s when the flow rate is lower than the minimum flow rate.

The start pressure and minimum flow rate values are shown in sections Pressure and Flow rate.

Automatic restart of SBA pumps

SBA pump models with a float switch automatically restart when water is added. Models without a float switch will attempt to restart every 24 hours.

Related information

9.1.1 Flow rate

9.1.4 Pressure

5. Handling and storing the product

5.1 Handling the product

Do not lift the product by the power cable. Lift the product by means of a rope.

Do not drop or shake the product.

5.2 Storing the product

Store the product indoors in a dry and dust-free environment. Protect the product from vibrations.

Storage temperature: -10 to +40 °C.

5.3 Frost protection

It the pump is not used during periods of frost, drain the pump and the pipe system before you take the pump out of operation.

6. Product introduction

6.1 Product description

The pumps are submersible booster pumps available in two main versions:

- pump with integrated inlet strainer with 1 mm mesh
- pump with side inlet, which includes a flexible inlet hose with floating inlet strainer with 1.8 mm mesh.

Both versions are available with or without float switch. The float switch can be used for automatic operation or dry-running protection of the pump.

6.2 SB pumps

The SB submersible booster pump is available with integrated inlet strainer or floating inlet strainer. The SB pump must be connected to an external controller, see section Connecting to external controller.

Related information

3.6.2 Connecting to external controller

6.3 SBA pumps

The SBA pump is a complete submersible booster pump available with integrated inlet strainer or floating inlet strainer.

SBA has a built-in control unit, eliminating the need for a controller.

The pump has built-in protection against overheating.

Related information

3.6.2 Connecting to external controller

6.4 SBA dry-running protection

The built-in control unit incorporates dry-running protection that automatically stops the pump in case of dry running.

The dry-running protection functions differently during priming and operation.

6.4.1 Dry running during priming

If the control unit does not detect any pressure and flow within 5 min after it has been connected to a power supply and the pump has started, the dry-running function is activated and the pump stops.

6.4.2 Dry running during operation

If the control unit does not detect any pressure and flow within 40 s during normal operation, the dry-running function is activated and the pump stops.

6.4.3 Resetting of dry-running alarm

If a dry-running alarm has been activated, you can restart the pump manually by switching off the power supply, wait for 2 min and reconnect power. If the control unit does not detect any pressure and flow within 40 s after restarting, the dry-running alarm is reactivated.

6.5 Intended use

Grundfos SB and SBA pumps are designed for pumping clean water. The pumps are especially suitable for rainwater applications and small private wells.

Typical applications:

- traditional wells
- shallow wells
- rainwater collection in tanks
- boosting of public water
- emptying of garden ponds
- irrigation.

6.6 Pumped liquids

The pumps are designed for fresh water with a maximum chloride content of 300 ppm and a free chlorine content below 1 ppm.

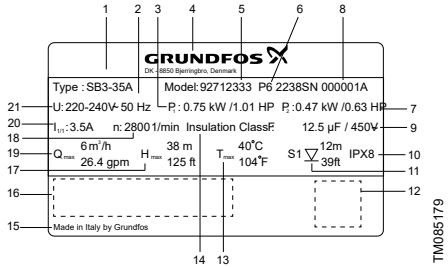
The product is suitable for pumping clean, thin, non-aggressive and non-explosive liquids without solid particles or fibres.

The pumps are not suitable for these liquids:

- liquids containing long fibres
- inflammable liquids (oil, petrol, etc.)
- aggressive liquids.

6.7 Identification

6.7.1 Nameplate



Example of nameplate

Pos.	Description
1	Product type
2	Frequency [Hz]
3	Power input
4	Manufacturer
5	Product number
6	Production code (year and week)
7	Motor output
8	Serial number
9	Capacitor data
10	Enclosure class
11	Max. installation depth
12	QR code
13	Max. liquid temperature
14	Motor insulation class
15	Country of origin
16	Approvals
17	Max. head
18	Speed [rpm]
19	Max. flow rate
20	Full-load current
21	Supply voltage

7. Maintaining the product

DANGER
Electric shock
Death or serious personal injury

- If the power supply cable is damaged, it must be replaced by the manufacturer, his service agent or similarly qualified persons in order to avoid hazard.

Clean the strainer every fall with a brush and a water jet when needed. In normal operation, the pump does not require any specific maintenance.

8. Fault finding the product

See also the quick guide.

DANGER
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 accidentally switched on.

8.1 The pump does not run

Cause	Remedy
The fuses in the electrical installation are blown.	Replace the fuses. If the new fuses blow too, check the electrical installation and the power cable.
The residual-current circuit breaker, RCCB, has tripped.	Cut in the circuit breaker.
No power supply.	Contact the power supply company.
The motor protection has cut off the power supply due to overload.	Check if the pump is blocked. 1. Switch off the power supply to the pump. 2. Remove the rubber plug. 3. Try to turn the pump shaft with a screwdriver. 4. If the pump shaft is stuck, follow the instructions below in The pump is blocked. **Note:** Remember to refit the rubber plug.
The pump or the power cable is defective.	Repair or replace the pump or cable.
The float switch is in dry-running position.	Check the water level and the float switch for free movability. **Note:** If the tank is empty, and the float switch is often in this position, install a larger tank.
SBA: The dry-running protection of the pump has stopped the pump.	Check the water level. Switch off the power supply and wait 2 min before switching it back on.
The pump is blocked.	Check and clean the pump. 1. Switch off the power supply to the pump. 2. Remove the screws at the bottom of the pump with a cross-head screwdriver. 3. Remove the pump base. 4. Clean the inlet strainer and hydraulic parts with a brush and a water jet. 5. Reassemble the pump.

8.2 The pump runs but gives no water

Cause	Remedy
The outlet valve is closed.	Open the valve.
No water or too low water level in the tank.	Increase the installation depth of the pump. Reduce the pump performance, or replace the pump by a pump with a lower performance.
The non-return valve is stuck in its closed position.	Pull out the pump, and clean or replace the valve.
The inlet strainer is clogged.	Pull out the pump, and clean the inlet strainer with a brush and a water jet.
The pump is defective.	Repair or replace the pump.

8.3 The pump runs at reduced performance

Cause	Remedy
The valves in the outlet pipe are partly closed or blocked.	Check and clean or replace the valves.
The outlet pipe is partly blocked by impurities.	Clean or replace the pipe.
The non-return valve in the outlet pipe is partly blocked.	Clean or replace the valve.
The pump and outlet pipe are partly blocked by impurities.	Pull out the pump. Check and clean or replace the pump. Clean the pipes.
The inlet strainer is clogged.	Clean the inlet strainer.
The pump is defective.	Repair or replace the pump.
Leakage in the pipes.	Check and repair the pipes.
The outlet pipe is defective.	Replace the outlet pipe.
Undervoltage has occurred.	Check the power supply.

8.4 Frequent starts and stops

Cause	Remedy
The float switch has not been adjusted correctly.	Adjust the float switch to ensure suitable time between the cutting-in and cutting-out of the pump.
The non-return valve is leaking or stuck half-open.	Clean or replace the non-return valve.
The supply voltage is unstable.	Check the power supply.
The motor temperature is too high.	Check the water temperature.
The pump is blocked.	Check and clean the pump. 1. Switch off the power supply to the pump. 2. Remove the screws at the bottom of the pump with a cross-head screwdriver. 3. Remove the pump base. 4. Clean the inlet strainer and hydraulic parts with a brush and a water jet. 5. Reassemble the pump.
Leakage in the pipes.	Check and repair the pipes.

Related information

3.1.2 Highest tapping point for SBA pumps

8.5 Leaking water from the drain holes

Cause	Remedy
The water is drained from the drain holes located under the red ring when the pump is stopped and the drain holes are above water level.	• This is normal behaviour.

Related information

4. Starting up the product

9. Technical data

9.1 Operating conditions

9.1.1 Flow rate

Max. flow rate	[m³/h]
SB	3
SBA	3

Min. flow rate	[l/min]
SBA 3-35	1.0
SBA 3-45	1.0

Related information

4.1 SBA starting and stopping conditions

9.1.2 Max. head

	[m]
SB 3-35	35
SB 3-45	45
SBA 3-35	35
SBA 3-45	45

9.1.3 Temperature

Liquid temperature	[°C]
SB	0 to 40
SBA	0 to 40

Storage temperature	[°C]
SB	-10 to +40
SBA	-10 to +40

9.1.4 Pressure

Start pressure	[bar]	[MPa]
SBA 3-35	1.5	0.15
SBA 3-45	2.4	0.22

Related information

4.1 SBA starting and stopping conditions

9.1.5 Frequency of starts and stops

Maximum starts per hour	
SB	20
SBA	20

9.2 Mechanical data

Cable length	[m]
SB	15
SBA	15

Max. installation depth	[m]
SB	10
SBA	10

Protection class	
Enclosure class	IPX8
Insulation class	F

9.3 Electrical data

SB	Voltage [V]	Frequency [Hz]	P1 [kW]	P2 [kW]	$I_{1/1}$ [A]
3-35	1 × 230	50	0.75	0.47	3.5
3-45			0.90	0.55	4.0
3-35	1 × 115	60	0.75	0.45	7.0
3-45			1.00	0.62	9.5
3-35	1 × 230		0.75	0.47	3.5
3-45			0.90	0.55	4.0

SBA	Voltage [V]	Frequency [Hz]	P1 [kW]	P2 [kW]	$I_{1/1}$ [A]
3-35	1 × 230	50	0.75	0.47	3.5
3-45			0.90	0.55	4.0
3-35	1 × 115	60	0.75	0.45	7.0
3-45			1.00	0.62	9.5
3-35	1 × 230		0.75	0.47	3.5
3-45			0.90	0.55	4.0

9.3.1 Speed

Speed	50 Hz [min^{-1}]	60 Hz [min^{-1}]
SB	2800	3400
SBA	2800	3400

10. Further product information

For further product documentation, see product-selection.grundfos.com.

11. 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 wheelie bin symbol on a product means that it must be disposed of separately from household waste. When a product marked with this symbol 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*.

12. Document quality feedback

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99057358 **09.2023**

ECM: 1374378