

# SCALA2

Safety instructions and other important information



**SCALA2**  
Installation and operating instructions  
<http://net.grundfos.com/qrfi/98880508>



**SCALA2**  
Quick guide  
<http://net.grundfos.com/qrfi/98501666>



# SCALA2

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## English (GB) Safety instructions

### Original safety instructions

These safety instructions give a quick overview of the safety precautions to be taken in connection with any work on this product. Observe these safety instructions during handling, installation, operation, maintenance, service and repair of this product. These safety instructions are a supplementary document, and all safety instructions will appear again in the relevant sections of the installation and operating instructions. Keep these safety instructions at the installation site for future reference.

### LIMITED WARRANTY

Products manufactured by Grundfos Pumps Corporation (Grundfos) are warranted to the original user only to be free of defects in material and workmanship for a period of 24 months from date of installation, but not more than 30 months from date of manufacture. Grundfos' liability under this warranty shall be limited to repairing or replacing at Grundfos' option, without charge, F.O.B. Grundfos' factory or authorized service station, any product of Grundfos manufacture. Grundfos will not be liable for any costs of removal, installation, transportation, or any other charges that may arise in connection with a warranty claim.

Products which are sold, but not manufactured by Grundfos, are subject to the warranty provided by the manufacturer of said products and not by Grundfos' warranty.

Grundfos will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair, or if the product was not installed in accordance with Grundfos' printed installation and operating instructions and accepted codes of good practice. The warranty does not cover normal wear and tear.

To obtain service under this warranty, the defective product must be returned to the distributor or dealer of Grundfos' products from which it was purchased together with proof of purchase and installation date, failure date and supporting installation data. Unless otherwise provided, the distributor or dealer will contact Grundfos or an authorized service station for instructions. Any defective product to be returned to Grundfos or a service station must be sent freight prepaid; documentation supporting the warranty claim and/or a Return Material Authorization must be included if so instructed.

Grundfos will not be liable for any incidental or consequential damages, losses, or expenses arising from installation, use, or any other causes. There are no express or implied warranties, including merchantability or fitness for a particular purpose, which extend beyond those warranties described or referred to above. Some jurisdictions do not allow the exclusion or limitation of

incidental or consequential damages and some jurisdictions do not allow limitations on how long implied warranties may last. Therefore the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from jurisdiction to jurisdiction.

Products which are repaired or replaced by Grundfos or authorized service center under the provisions of these limited warranty terms will continue to be covered by Grundfos warranty only through the remainder of the original warranty period set forth by the original purchase date.

### General information

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.

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



### Location

Install the pump in such a way that no undesirable collateral damage can arise due to leakage.

If the unlikely event of an internal leakage occurs, the liquid will be drained through the bottom of the pump.

### System sizing

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

## Mechanical installation

### Deblocking 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 switched on accidentally.

### Electrical connection

Carry out the electrical connection according to local regulations.



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

#### **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 switched on accidentally.

#### **DANGER**

##### **Electric shock**

Death or serious personal injury



- The pump must be earthed.
- The pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that the pump is connected only to a properly grounded, grounding type receptacle (protective earthing).
- If national legislation requires a Residual Current Device (RCD), a Ground Fault Circuit Interrupter (GFCI), or equivalent in the electrical installation, this must be type B (according to UL/IEC 61800-5-1) or better, due to the nature of the constant DC leakage current.



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.

## Plug connection

#### **DANGER**

##### **Electric shock**

Death or serious personal injury



- Check that the power plug delivered with the product is in compliance with local regulations.
- Make sure that the pump is connected only to a properly grounded, grounding-type receptacle (protective earthing).
- The protective earth of the power outlet must be connected to the protective earth of the pump. The plug must therefore have the same PE connection system as the power outlet. If not, use a suitable adapter.

### Connection without plug



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

#### **DANGER**

##### **Electric shock**

Death or serious personal injury



- The pump must be connected to an external main switch with a minimum contact gap of 3 mm (0.12 inch) in all poles.

### Servicing the product

#### **DANGER**

##### **Electric shock**

Death or serious personal injury



- Before starting any work on the product, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

### Fault finding chart

#### **DANGER**

##### **Electric shock**

Death or serious personal injury



- Before starting any work on the product, make sure that the power supply has been switched off and that it cannot be accidentally switched on.

### Technical data

**Operating conditions**

<b>Temperature</b>	<b>[°C (°F)]</b>
Max. ambient temperature	
1 x 208-230 V, 60 Hz:	45 (113)
1 x 115 V, 60 Hz:	45 (113)
1 x 200-240 V, 50/60 Hz:	55 (131)
Max. liquid temperature	45 (113)

<b>Pressure</b>	<b>[bar (psi)]</b>	<b>[MPa]</b>
Max. system pressure	10 (145)	1
Max. inlet pressure	6 (87)	0.6

**Other operating data**

Max. head	45 m (147 ft)
IP rating	X4D (outdoor installation)
Pumped liquid	Clean water
Noise level	< 47 dB(A) <sup>1</sup>

<sup>1</sup> 47 dB(A) is measured in a typical application with pressure control mode (2.5 bar (36 psi) and 1 m<sup>3</sup>/h). In non-typical applications noise might increase up to 58 dB.

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