

# NK - IEC, Range 2

Safety instructions and other important information



**NK**  
Installation and operating instructions  
(all available languages)  
<http://net.grundfos.com/qr/i/92699989>



## NK - IEC, Range 2

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### English (GB)

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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.

### Transporting the product

#### WARNING

##### Overhead load

Death or serious personal injury



- Pay attention to the pump weight, and take precautions to prevent personal injury if the pump topples or falls by accident.

### Location

#### CAUTION

##### Hot or cold surface

Minor or moderate personal injury



- When pumping hot or cold liquids, make sure that no one can accidentally come into contact with hot or cold surfaces.



### Preliminary alignment

#### DANGER

##### Electric shock

Death or serious personal injury



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

### Air-gap width S2

#### WARNING

##### Crushing of hands

Death or serious personal injury



- Write your text here.
- To protect persons from rotating machine parts, always install all guards after the installation is complete and before starting the pump.

### Bypass

#### DANGER

##### Explosion hazard

Death or serious personal injury



- The pump is not allowed to run against a closed valve except during startup. Operating against a closed valve at an extended period of time will cause an increase in temperature and the formation of steam and may result in damages to or explosion of the pump housing. The valve must be kept open during operation.

### Electrical connection

#### DANGER

##### Electric shock

Death or serious personal injury



- Before removing the terminal box cover, and before removing or dismantling the pump, make sure that the power supply has been switched off and that it cannot be accidentally switched on again. Use lockout-tagout if available. The pump must be connected to an external main switch.

#### DANGER

##### Explosive environment

Death or serious personal injury



- Whenever powered equipment is used in explosive surroundings, the rules and regulations generally or specifically imposed by the relevant authorities or trade organisations/organizations must be observed.

### Motor protection

#### DANGER

##### Electric shock

Death or serious personal injury



- The motor must be protected against overload by an external motor-protective circuit breaker with IEC trip class 10 or 20.
- Grundfos recommends using trip class 20.
- The current setting of the motor-protective circuit breaker must be adjusted to the nominal current stated on the motor nameplate.

**DANGER****Automatic startup**

Death or serious personal injury



- Before starting any repair work on motors incorporating a thermal switch or thermistors, make sure that the motor cannot restart automatically after cooling.

**Flushing the pipe system****CAUTION****Biological hazard**

Minor or moderate personal injury



- When pumping drinking water, the pump must be flushed thoroughly with clean water before startup in order to remove any foreign matters, such as preservatives, test liquid, or grease.

**Priming the product in closed systems or open systems where the liquid level is above the pump inlet****WARNING****Escaping liquid**

Death or serious personal injury



- Pay attention to the orientation of the priming hole to ensure that the escaping liquid does not cause personal injury or damage to the motor or other components.
- In hot-liquid installations, pay special attention to the risk of personal injury caused by scalding hot liquid.
- In cold-liquid installations, pay special attention to the risk of personal injury caused by cold liquid.

**Starting up the pump****WARNING****Escaping liquid**

Death or serious personal injury



- Pay attention to the orientation of the vent hole to ensure that the escaping liquid does not cause personal injury or damage to the motor or other components.
- In hot-liquid installations, pay special attention to the risk of personal injury caused by scalding hot liquid.
- In cold-liquid installations, pay special attention to the risk of personal injury caused by cold liquid.

**Service****DANGER****Moving machine parts**

Death or serious personal injury

- Before any inspection, maintenance, service or repair of the product, make sure the motor controls are in the "OFF" position, locked and tagged.

**DANGER****Electric shock and unintended pump start**

Death or serious personal injury



- Before starting work on the product, switch off the power supply. Make sure the power supply cannot be accidentally switched on. Use logout-tagout if available.

**Contaminated products****CAUTION****Biological hazard**

Minor or moderate personal injury



- Flush the pump thoroughly with clean water and rinse the pump parts in water after dismantling.

**Maintenance****DANGER****Moving machine parts**

Death or serious personal injury



- Before any inspection, maintenance, service or repair of the product, make sure the motor controls are in the "OFF" position, locked and tagged.

**DANGER****Electric shock and unintended pump start**

Death or serious personal injury



- Before starting work on the product, switch off the power supply. Make sure the power supply cannot be accidentally switched on. Use logout-tagout if available.

## Protecting the pump during periods of inactivity and frost

### WARNING

#### Escaping liquid

Death or serious personal injury



- Ensure that the escaping liquid does not cause personal injury or damage to the motor or other components.
- In hot-liquid installations, pay special attention to the risk of personal injury caused by scalding hot liquid.
- In cold-liquid installations, pay special attention to the risk of personal injury caused by cold liquid.

## Fault finding the product

### DANGER

#### Electric shock

Death or serious personal injury



- Before removing the terminal box cover and before removing or dismantling the pump, make sure that the power supply has been switched off and that it cannot be accidentally switched on again.

### WARNING

#### Escaping liquid

Death or serious personal injury



- Pay attention to the orientation of the vent hole to ensure that the escaping liquid does not cause personal injury or damage to the motor or other components.
- In hot-liquid installations, pay special attention to the risk of personal injury caused by scalding hot liquid.
- In cold-liquid installations, pay special attention to the risk of personal injury caused by cold liquid.



### CAUTION

#### Hot or cold surface

Minor or moderate personal injury



- When pumping hot or cold liquids, make sure that persons cannot accidentally come into contact with hot or cold surfaces.

## Declaration of conformity

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### GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the product NK, to which the declaration below relates, is in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

### KO: EU 적합성 선언

Grundfos는 아래의 선언과 관련된 NK 제품이 EU 회원국 법률에 기반하여 아래의 이사회 지침을 준수함을 단독 책임 하에 선언합니다.

### TH: คำประกาศความสอดคล้องตามมาตรฐาน EU

เราในนามของบริษัท Grundfos ขอประกาศภายใต้ความรับผิดชอบของเราแต่เพียงผู้เดียวว่าผลิตภัณฑ์ NK ซึ่งเกี่ยวข้องกับคำประกาศนี้มีความสอดคล้องกับระเบียบคำสั่งตามรายการด้านล่างนี้ของสภาวิชาชีพว่าด้วยค่าประมาณตามกฎหมายของรัฐที่เป็นสมาชิก EU

### VI: Tuyên bố tuân thủ EU

Chúng tôi, Grundfos, tuyên bố trong phạm vi trách nhiệm duy nhất của mình rằng sản phẩm NK mà tuyên bố dưới đây có liên quan tuân thủ các Chỉ thị Hội đồng sau về việc áp dụng luật pháp của các nước thành viên EU.

### CN: 欧盟符合性声明

我们，格兰富，在我们的全权责任下声明，产品 NK 系列，其制造和性能完全符合以下所列欧盟委员会指令。

### ID: Deklarasi kesesuaian Uni Eropa

Kami, Grundfos, menyatakan dengan tanggung jawab kami sendiri bahwa produk NK, yang berkaitan dengan pernyataan ini, sesuai dengan Petunjuk Dewan serta sedapat mungkin sesuai dengan hukum negara-negara anggota Uni Eropa.

### TW: EU 合格聲明

葛蘭富根據我們唯一的責任，茲聲明與以下聲明相關之 NK 產品，符合下列近似 EU 會員國法律之議會指令。

**Pumps with motors and base frames****Machinery Directives (2006/42/EC and 2009/127/EC)**

Standard used: EN 809:1998 + A1:2009

**Ecodesign Directive (2009/125/EC)****RoHS Directives (2011/65/EU and 2015/863/EU)**

Standard used: EN IEC 63000:2018

**ATEX Directive (2014/34/EU)**

Applies only to products with ATEX markings (*Group II, Categories and Environments 2G, 3G, 2D, 3D*) on the nameplate.

Standards used: EN 80079-36:2016 and EN 80079-37:2016

Notified body holding copy of technical file: DEKRA Certification B.V., No. 0344, Meander 1051, 6825 MJ ARNHEM, The Netherlands.

EU declaration of conformity and installation and operating instructions for the motor are enclosed.

**Bare shaft pumps****Machinery Directives (2006/42/EC and 2009/127/EC)**

Standard used: EN 809:1998 + A1:2009

**Ecodesign Directive (2009/125/EC)****RoHS Directives (2011/65/EU and 2015/863/EU)**

Standard used: EN IEC 63000:2018

**ATEX Directive (2014/34/EU)**

Applies only to products with ATEX markings (*Group II, Categories and Environments 2G, 3G, 2D, 3D*) on the nameplate.

Standards used: EN 80079-36:2016 and EN 80079-37:2016

Notified body holding copy of technical file: DEKRA Certification B.V., No. 0344, Meander 1051, 6825 MJ ARNHEM, The Netherlands.

EU declaration of conformity and installation and operating instructions for the motor are enclosed.

This declaration of conformity is only valid when published as part of the Grundfos Safety Instruction and other important information (publication number 92656014).

Suzhou, Jiang Su Province, PRC, 08 September 2022



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<b>92656014 02.2024</b>
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ECM: 1388245
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