

MAGNA1

Safety instructions and other important information



English (US) Safety instructions

Original safety instructions

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Warning

Prior to installation, read this document and the Quick Guide. Installation and operation must comply with local regulations and accepted codes of good practice.



Warning

The use of this product requires experience with and knowledge of the product. Persons with reduced physical, sensory or mental capabilities must not use this product, unless they are under supervision or have been instructed in the use of the product by a person responsible for their safety. Children must not use or play with this product.

1. Symbols used in this document



Warning

If these safety instructions are not observed, it may result in personal injury.



Warning

If these instructions are not observed, it may lead to electric shock with consequent risk of serious personal injury or death.



Warning

The surface of the product may be so hot that it may cause burns or personal injury.



Warning

Risk of dropping objects which may cause personal injury.



Warning

Escaping vapor involves the risk of personal injury.



Caution

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



Note

Notes or instructions that make the job easier and ensure safe operation.

2. Type key

Code	Example	MAGNA1	(D)	100	-120	(F)	360
	Type range MAGNA1						
	Single-head pump						
D	Twin-head pump						
	Nominal diameter (DN) of suction and discharge ports [mm]						
	Maximum head [dm]						
	Pipe connection Threaded						
F	Flange						
	Port-to-port length [mm]						

3. Pumped liquids

The pump can be used for pumping water/glycol mixtures up to 50 %.



Warning

Do not use the pump for flammable liquids, such as diesel oil and gasoline.

4. Installation

4.1 Changing the control box position



Warning

Observe local regulations setting limits for manual lifting or handling.



Warning

Before dismantling the pump, drain the system or close the isolating valve on either side of the pump. The pumped liquid may be scalding hot and under high pressure.



Warning

When loosening the clamp, do not drop the pump head.



Warning

Risk of escaping vapor.

5. Electrical connection

Carry out the electrical connection and protection according to local regulations.

If rigid conduit is to be used, the hub must be connected to the conduit system before it is connected to the terminal box of the pump.



The protective earth (ground) symbol identifies any terminal which is intended for connection to an external conductor for protection against electrical shock in case of a fault, or the terminal of a protective earth (ground) electrode.



Warning

Switch off the power supply before making connections.

Warning

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

Grounding or neutralization must be used for protection against indirect contact.



If the pump is connected to an electric installation where a Ground Fault Circuit Interrupter (GFCI) is used as an additional protection, this circuit interrupter must trip when ground fault currents with DC content (pulsating DC) occur.

The ground fault circuit interrupter must be marked with the first or both of the symbols shown below:



Warning



It must be possible to lock the mains switch in position 0. Type and requirements as specified in EN 60204-1, 5.3.2.

6. Operation



Warning

At high liquid temperatures, the pump may be very hot. In that case only touch the button.

The surface of the pump may be so hot that it may cause burns or personal injury.

7. Fault finding



Warning

Before dismantling the pump or related parts, drain the system and close the isolating valves on both sides of the pump as the pumped liquid may be scalding hot and under high pressure.



Warning

If the power supply cable is damaged, it must be replaced by the manufacturer, the manufacturer's service partner or a similarly qualified person.

8. Technical data

8.1 Ambient temperature

+32 to +104 °F (0 to +40 °C).

8.2 Maximum system pressure

The maximum system pressure is indicated on the nameplate:

175 psi (12 bar).

8.3 Approvals

Conforms to ANSI/UL Standard 778.

Certified to CAN/CSA Standard C22.2 No. 108.

9. Further product information



GRUNDFOS.COM/MANUAL-MAGNA1

10. Disposal

This product has been designed with a focus on the disposal and recycling of materials.

The following average disposal values apply to all variants of Grundfos MAGNA1 pumps:

- 85 % recycling
- 10 % incineration
- 5 % depositing.

This product or parts of it must be disposed of in an environmentally sound way according to local regulations.

Subject to alterations.

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