

CRN MAGdrive

Installation and operating instructions



CR, CRI, CRN
Installation and operating instructions
(all available languages)
<http://net.grundfos.com/qr/i/96462123>

CRN MAGdrive

English (GB)

Installation and operating instructions	4
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English (GB) Installation and operating instructions

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.

1.1 Related instructions



This document is a supplement to the installation and operating instructions for the corresponding standard products. Make sure to read the installation and operating instructions listed below.

CR, CRI, CRN Installation and operating instructions

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<http://net.grundfos.com/qr/i/96462123>

Related information

[4. Mechanical installation](#)

[5. Electrical connection](#)

1.2 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.

1.3 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.

1.4 Permanent magnets

WARNING

Magnetic field

Death or serious personal injury

- Persons with pacemaker or other magnet-sensitive medical devices must not handle this pump. They must keep a distance of at least 1 metre from the product, as there is a risk of influence from the magnetic fields of the pump.



- Credit cards, computers, watches and other magnet-sensitive objects should not be kept close to the pump.
- The pump contains powerful magnets that may pose a risk of personal injury when servicing the pump. The pump must therefore only be dismantled and assembled by authorised persons.

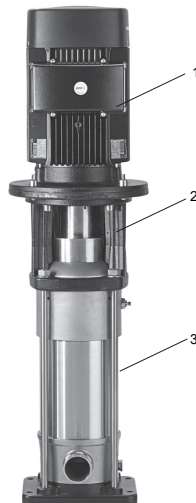
2. Product introduction

2.1 Product description



Incorrect operation of the pump can result in malfunction or damage to the pump and damage to the surrounding property.

Grundfos CRN MAGdrive pumps are semi-hermetic and essentially leakage-free. The motor torque is transmitted to the pump shaft by means of magnetic force.



TM039119

CRN MAGdrive pump

Pos.	Description
1	Motor
2	Magnetic drive
3	Pump

2.2 Pumped liquids

The pump is suitable for pumping the following liquids:

- aggressive or corrosive liquids
- toxic liquids
- volatile liquids
- flammable liquids.



The pump must not be used for liquids containing fibres and magnetic particles.

2.3 Identification

2.3.1 Type key

Example:

CRN 5-13 M-F-A-E

Code	Explanation
CRN	Type range
5	Rated flow rate in m ³ /h
13	Number of impellers
M	Code for pump version
F	Code for pipe connection
A	Code for materials
E	Code for rubber parts of pump

See also the installation and operating instructions for CR, CRI, CRN.

2.3.1.1 Key to codes

Code	Description
Pump version	
A	Basic version
B	Oversize motor
C	CR compact
D	Pump with pressure intensifier
E	Pump with certificate
F	Pump for high temperatures (with air-cooled top)
G	E-pump without operating panel
H	Horizontal version
I	Different pressure rating
J	E-pump with a different maximum speed
K	Pump with low NPSH
L	Pump including Grundfos CUE and certificate
M	Magnetic drive
N	With sensor
O	Cleaned and dried
P	Undersize motor
Q	High-pressure pump with high-speed MGE motor
R	Belt-driven pump
S	High-pressure pump
T	Thrust-handling device

Code	Description
U	ATEX-approved pump
V	Cascade function
W	Deep-well pump with ejector
X	Special version
Y	Electropolished
Z	Pumps with bearing flange

Pipe connection

A	Oval flange
B	NPT thread
CA	FlexiClamp
CX	TriClamp
F	DIN flange
FC	DIN 11853-2 flange (collar flange)
FE	EN 1092-1, type E
G	ANSI flange
J	JIS flange
N	Changed diameter of ports
P	PJE coupling (Victaulic type)
X	Special version

Materials

A	Basic version
C	Carbon-free pump
D	Carbon-graphite-filled PTFE (bearings)/tungsten carbide
E	Pickled and passivated (Only Japan)
H	Flanges and base plate EN 1.4408
K	Bronze (bearings)/tungsten carbide
L	Motor stool, base plate and flanges EN 1.4408
M	Motor stool, base plate, coupling and flanges EN 1.4408 and coupling guards in cobber. Bolts, nuts and spacing pipes EN 1.4401 or higher grade
N	Flanges EN 1.4408
P	PEEK neck ring
Q	Silicon carbide/silicon carbide bearing in pump and silicon carbide/silicon carbide seal faces in thrust-handling device
R	Silicon carbide/silicon carbide bearing
S	PTFE neck rings
T	Base plate EN 1.4408

Code	Description
U	Silicon carbide/silicon carbide bearing in pump and silicon carbide/tungsten carbide seal faces in thrust-handling device
W	Tungsten carbide/tungsten carbide
X	Special version
Rubber parts in pump	
E	EPDM
F	FXM (Fluoraz®)
K	FFKM (Kalrez®)
N	CR (Neoprene)
V	FKM (Viton®)
Shaft seal type designation	
A	O-ring seal with fixed driver
H	Balanced cartridge seal with O-ring
O	Double seal, back-to-back
P	Double seal, tandem
X	Special version
Seal face material (rotating and stationary seal face)	
B	Carbon, synthetic resin-impregnated
U	Cemented tungsten carbide
Q	Silicon carbide
X	Other ceramics
Secondary seal material (rubber parts)	
E	EPDM
F	FXM (Fluoraz®)
K	FFKM (Kalrez®)
V	FKM (Viton®)

3. Receiving the product

3.1 Inspecting the product

Before installing the product, do the following:

1. Check that the product is as ordered.
2. Check that no visible parts have been damaged.
3. If parts are damaged or missing, contact your local Grundfos sales company.

4. Mechanical installation

WARNING

Magnetic field

Death or serious personal injury



- Persons with a pacemaker or other magnet-sensitive medical devices must not handle this pump. They must keep a distance of at least 1 metre from the product, as there is a risk of influence from the magnetic fields of the pump.

WARNING

Falling objects

Death or serious personal injury



- Fasten the pump securely to a solid and even foundation according to the specifications stated in the installation and operating instructions.



The pump must not be installed in ATEX zones 2D, 3D and M2 (dust and mining zones).



If the pump is installed in ATEX zones 2G or 3G, an ATEX-approved flow sensor must be installed to protect the pump against dry running.



Installation and operation must comply with local regulations and accepted codes of good practice.



Follow the installation and operating instructions for the standard CR, CR1, CRN pump.

We recommend protecting CRN MAGdrive pumps against dry running by installing a flow switch, pressure switch or a LiqTec sensor in the pump. The delay of the dry-running protection must be maximum 15 seconds.

Related information

[1.1 Related instructions](#)

4.1 Installation in ATEX environments

4.1.1 CRN MAGdrive temperature rise

In order to calculate the pump surface temperature and temperature class, the below table shows the temperature rise of a CRN MAGdrive pump. ¹⁾

¹⁾ The temperature rise is measured on the surface of the can which is located between the pump and the magnetic drive.

CRN MAGdrive Surface temperature rise [°C]

All sizes	Maximum 10 degrees above the liquid temperature
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4.2 Connection of a sensor

A pressure sensor or a Grundfos LiqTec dry-running protection unit can be fitted in the threaded hole in the pump head.

Description	Dimension
Threaded connection:	RG 1/2
Max. installation length, sensor:	20 mm

5. Electrical connection**WARNING
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.
- Connect the pump to an external main switch close to the pump and to a motor-protective circuit breaker or a CUE frequency converter. Make sure you can lock the main switch in OFF position (isolated). Type and requirements as specified in EN 60204-1, 5.3.2.



Follow the installation and operating instructions for the standard CR, CRI, CRN pump.



Pumps with 2-pole motors of 18.5 and 22 kW and 4-pole motors as from 1.1 kW must be started via a soft starter.

Related information*1.1 Related instructions***5.1 Motor protection**

As a minimum, the motor must be connected to an effective electronic motor protection with instantaneous release when the maximum current setting is reached. If a soft starter or a frequency converter is used, it must also be with instantaneous release.

To ensure the optimum protection of the MAGdrive motor, the motor protection must be set in accordance with the following guidelines:

1. Set the overload protection to the rated full-load current ($I_{1/1}$) of the motor.
2. Start the pump, and let it run for half an hour at the required duty point.
3. Measure the motor current. If not possible, slowly grade down the scale indicator until the motor trip point is reached.
4. The setting of the motor protection must be 5 % higher than this value. The highest permissible setting of the motor protection is the rated full-load current ($I_{1/1}$) of the motor.

5.2 Self-regulating heat-tracing cable**WARNING****Electric shock**

Death or serious personal injury

- More than one power source.
- Make sure to fix the power cable in a tray.



If the pump is supplied with a self-regulating heat-tracing cable, make sure that the cable is connected to a 1 x 220-240 V, 50 Hz power supply.

If the pump operates with liquids below 0 °C, ensure that the power supply is switched on, even if the pump is stopped. The power supply must not have a fuse size larger than 13 A.

Heat-tracing-cable color codes

Brown, blue	Power supply
Green, yellow	Ground

6. Starting up the product

DANGER

Explosion risk

Death or serious personal injury

- Always fill the pump with liquid and ensure that the required minimum flow rate is obtained.



WARNING

Magnetic field

Death or serious personal injury

- Persons with pacemaker or other magnet-sensitive medical devices must not handle this pump. They must keep a distance of at least 1 metre from the product, as there is a risk of influence from the magnetic fields of the pump.



WARNING

Corrosive liquids

Death or serious personal injury

- Wear personal protective equipment.



WARNING

Toxic liquids

Death or serious personal injury

- Operation and servicing of the pump may pose a risk to the life and health of the persons involved if the pumped liquid is flammable, aggressive, corrosive, toxic, or in any other way harmful.
- Wear personal protective equipment.



CAUTION

Hot or cold liquids

Minor or moderate personal injury

- Wear personal protective equipment.



CAUTION

Hot or cold surface

Minor or moderate personal injury

- Make sure that no one can accidentally come into contact with hot or cold surfaces.



Do not start the pump until it has been filled with liquid and vented.

1. Open the isolating valve on the inlet side of the pump.

2. Close the isolating valve on the outlet side of the pump.
3. Loosen the vent screw in the pump head.
4. Slowly fill the pump with liquid.
5. Tighten the vent screw when the pump has been completely filled with liquid.
6. Slowly open the isolating valve on the outlet side of the pump.
7. Start the pump.
8. Check the direction of rotation by means of the motor fan and the label on top of the fan cover.
9. After startup, the pump must be vented again. Slowly loosen the vent screw in the pump head.



Pay attention to the direction of the vent hole during liquid filling and venting. Make sure that the escaping liquid does not cause damage to the motor or other components.

10. When liquid runs out, tighten the vent screw securely.

Related information

[9.1 Minimum flow rate](#)

7. Servicing the product

WARNING

Magnetic field

Death or serious personal injury



- Persons with pacemaker or other magnet-sensitive medical devices must not handle this pump. They must keep a distance of at least 1 metre from the product, as there is a risk of influence from the magnetic fields of the pump.

CAUTION

Crushing of hands

Minor or moderate personal injury



- The pump contains powerful magnets that may pose a risk of personal injury when servicing the pump. The pump must therefore only be dismantled and assembled by authorised persons.

If Grundfos is requested to service the pump, Grundfos must be contacted with details about the pumped liquid before the pump is returned for service. Otherwise, Grundfos can refuse to accept the pump for service.

Possible costs of returning the pump are paid by the customer.

7.1 Maintaining the product

The pump requires no maintenance if it has been installed according to the instructions.

7.2 Other documentation

Service and other documentation for CR pumps can be found in Grundfos Product Center at <https://product-selection.grundfos.com/>

If you have any questions, please contact the nearest Grundfos company or service workshop.

8. Fault finding the product

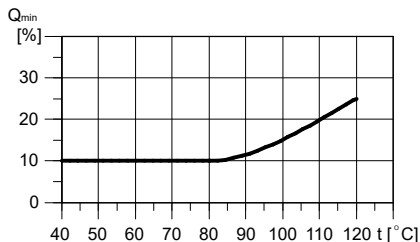
See the installation and operating instructions for CR, CRI, CRN.

9. Technical data

Liquid temperature:	-30 to +120 °C.
Maximum system pressure:	25 bar.
Viscosity:	0.15 to 300 mPas.

9.1 Minimum flow rate

The curve shows the minimum flow rate as a percentage of the rated flow rate in relation to the liquid temperature.



TM045683

Minimum flow rate in percentage of the rated flow rate



Do not use the pump at flow rates below the minimum flow rate. The pump risks overheating.

Related information

[6. Starting up the product](#)

10. 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 wheellie 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.

11. Document quality feedback

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