MTD with standard motor

Installation and operating instructions

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GRUNDFOS

Original installation and operating instructions

These installation and operating instructions describe Grundfos MTD pumps.

Sections 1-5 provide important information about the product, information necessary to be able to unpack, install and start up the product in a safe way.

Sections 6-9 provide important information on service, fault finding and disposal of the product.

CONTENTS

		Page
1.	**General information**	**2**
1.1	Hazard statements	2
1.2	Notes	2
2.	**Product introduction**	**3**
2.1	Pumped liquids	3
2.2	Identification	3
3.	**Receiving the product**	**4**
4.	**Installing the product**	**4**
4.1	Mechanical installation	4
4.2	Pump position	5
4.3	Electrical connection	5
5.	**Starting up the product**	**6**
6.	**Servicing the product**	**6**
6.1	Contaminated products	6
6.2	Maintaining the product	6
7.	**Fault finding the product**	**7**
8.	**Technical data**	**9**
8.1	Vibration level	9
8.2	Sound pressure level	9
9.	**Disposal**	**9**

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

1. General information

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 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. Product introduction

The Grundfos pump, type MTD, is a multistage centrifugal pump designed for pumping cooling lubricants to filters for machine tools.

2.1 Pumped liquids

DANGER

Fire and explosion

Death or serious personal injury

- Do not use the pump for flammable, combustible or explosive liquids.

Liquids with a viscosity higher than the one permitted can cause a decrease in motor life time or lead to a motor failure.

Pumped liquid requirements	
Maximum chip size [mm]	25
Maximum kinetic viscosity [mm^2/s]	32
Permissible liquid temperature [°C]	0-60

2.2 Identification

2.2.1 Nameplate

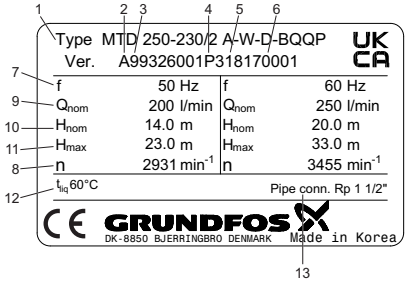

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Fig. 1 Example of nameplate

Pos.	Designation
1	Type designation (see type key)
2	Model
3	Product number
4	Place of production
5	Production year and week (YYWW)
6	Serial number
7	Frequency
8	Rated speed
9	Rated flow
10	Rated head
11	Max. head
12	Max. temperature of pumped liquid
13	Pipe connection

2.2.2 Type key

Example MTD 250 -280 /2 A -W -D -B QQ P

Pump type

Pump size

Installation length [mm]

Number of impellers or stages

Pump version
A = Standard version

Connection
W = Internal thread
WB = Internal NPT thread

Impeller material
D = Ductile cast iron

Shaft seal
A = O-ring seal
B = Bellows seal

Seal ring material
B = Carbon
Q = Silicon carbide
U = Tungsten carbide
V = Ceramic

Rubber material
P = NBR
V = FKM

3. Receiving the product

The pump is delivered in packaging specially designed for manual transport, or transport by forklift truck or similar vehicle.

In order to ensure safe transport, we recommend that you transport the pump with suitable lifting tools.

4. Installing the product

4.1 Mechanical installation

The pump is designed for tank mounting in vertical position. The pump is positioned in a hole in the cover of the tank (upper side). It is secured to the tank by four or two hexagon head screws through the holes in the mounting flange. We recommend that you fit a sealing gasket between the pump flange and tank.

4.1.1 Tank size

The recommended tank size is 3 times the pump outlet volume per minute.

Use seal tape or liquid packing on threads to avoid leakage from the pump and the pipe connections.

Risk of damage to the pump. Pipes connected to the pump must be supported, so that their weight is not supported by the pump.

Outlet tightening torque must be 50 Nm.

4.2 Pump position

The pump can only be mounted in vertical position. Provide a clearance of minimum 50 mm above the motor to ensure cooling of fan-cooled motors.

The pump is designed for indoor operation only.

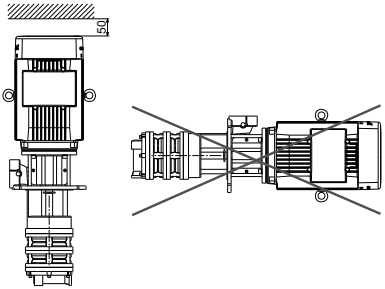

Fig. 2 Mounting position

Make sure that there is always a clearance of 25 mm to the mounting flange. Note that a minimum clearance of 30 mm from the pump inlet to the bottom of the tank is required.

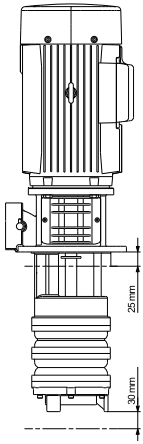

Fig. 3 Required clearance for pump inlet and mounting flange

The motor must not be exposed to direct water or liquid sprays.

4.3 Electrical connection

WARNING

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.
- 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 that you can lock the main switch in OFF position (isolated). Type and requirements as specified in EN 60204-1, 5.3.2.

The electric motor must be connected to the supply as shown in the diagram inside the terminal box cover.

The pump must be earthed. The electrical connection must be carried out in accordance with local regulations.

We do not recommend operation via frequency converter.

The operating voltage and frequency are marked on the motor nameplate. Make sure that the motor is suitable for the power supply on which it will be used.

The motor must be connected to a motor-protective circuit breaker.

Single-phase Grundfos motors incorporate a thermal switch and require no additional motor protection.

Three-phase motors must be connected to a motor-protective circuit breaker.

4.3.1 Terminal box positions

The terminal box can be turned to another position.

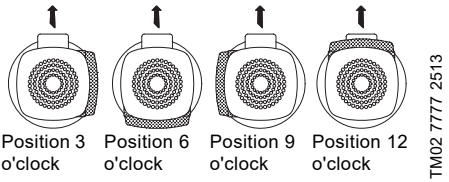

Fig. 4 Terminal box positions, top view

Proceed as follows:

1. Remove the bolts securing the motor to the pump.
2. Turn the motor to the required position.

Refit and tighten the bolts securing the motor to the pump.

5. Starting up the product

WARNING

Rotating shaft

Death or serious personal injury

- Be sure that the coupling guard is in place before starting the pump.

CAUTION

Hot surface

Minor or moderate personal injury

- Make sure that persons cannot accidentally come into contact with the hot surface.

The pump can be started against an open or a closed outlet valve.

Before starting the pump:

- Make sure that all pipe connections are tight.
- Make sure that the pump is immersed to the recommended level.
- Make sure that chip trays are not blocked by impurities.

Start the pump as follows:

1. See the correct direction of rotation of the pump on the motor fan cover. When seen from the top, the pump must rotate counterclockwise.
2. Start the pump and check the direction of rotation.

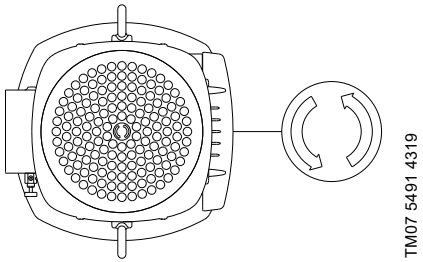

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Fig. 5 Motor fan cover with indication of the correct direction of rotation

6. Servicing the product

6.1 Contaminated products

CAUTION

Biological hazard

Minor or moderate personal injury

- Wear personal protective equipment and take necessary protective measures when handling the product.

The product will be classified as contaminated if it has been used for a liquid which is injurious to health or toxic.

If you request Grundfos to service the product, contact Grundfos with details about the liquid before returning the product for service. Otherwise, Grundfos can refuse to accept the product for service.

Any application for service must include details about the liquid.

Clean the product in the best possible way before you return it.

Costs of returning the product are to be paid by the customer.

6.2 Maintaining the product

6.2.1 Lubrication and maintenance

Pumps installed in accordance with these instructions require very little maintenance.

The motor ball bearings are grease-packed and sealed for life. No further lubrication is necessary.

If you need to replace a ball bearing, change the bearing seal.

6.2.2 Filters

Clean chip trays, filters, etc. at regular intervals to ensure a correct flow of liquid. This will also increase the pump life.

6.2.3 Periodic checks

Make the following checks at regular intervals, depending on the conditions and time of operation.

- Check the quantity of liquid and the operating pressure.
- Check that there are no leaks.
- Check that the motor is not overheating.
- Check the tripping of the motor-protective circuit breaker.
- Check that all control devices are operating satisfactorily.

If the above checks do not reveal any abnormal operating details, no further checks are necessary.

Should any faults be found, see section *7. Fault finding the product*.

7. Fault finding the product

WARNING

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.

WARNING

Moving parts

Death or serious personal injury

- Tighten the coupling screws to the correct torque.
- Install the coupling guards securely to the pump with the screws intended for this purpose.

CAUTION

Corrosive liquids

Death or serious personal injury

- Wear personal protective equipment.

CAUTION

Toxic liquids

Death or serious personal injury

- Wear personal protective equipment.

CAUTION

Hot or cold liquid

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.

Fault	Cause	Remedy
1. Motor does not run when the power supply is switched on.	a) Power supply failure.	Connect the power supply.
	b) The fuses are blown.	Replace the fuses.
	c) Motor-protective circuit breaker has tripped.	Reactivate the motor-protective circuit breaker.
	d) The thermal protection has tripped.	Reactivate the thermal protection.
	e) The main contacts in the motor-protective circuit breaker are not making contact or the coil is faulty.	Replace contacts or magnetic coil.
	f) The control circuit is defective.	Repair the control circuit.
	g) The motor is defective.	Replace the motor.
2. Motor-protective circuit breaker trips immediately when the power supply is switched on.	a) A fuse is blown or the automatic circuit breaker has tripped.	Replace the fuse or cut in the circuit breaker.
	b) The contacts in the motor-protective circuit breaker are faulty.	Replace the motor-protective circuit breaker contacts.
	c) The cable connection is loose or faulty.	Fasten or replace the cable connection.
	d) The motor winding is defective.	Replace the motor.
	e) The pump is mechanically blocked.	Remove the mechanical blocking of the pump.
	f) Motor-protective circuit breaker overload setting is too low.	Set the motor-protective circuit breaker correctly.
3. Motor-protective circuit breaker trips occasionally.	a) Motor-protective circuit breaker overload setting is too low.	Set the motor-protective circuit breaker correctly.
	b) Low voltage at peak times.	Reestablish constant power supply.
4. Motor-protective circuit breaker has not tripped but the pump does not run.	a) Check 1 a), b), d), e) and f).	
5. The pump runs but gives no liquid, or pump performance is not constant.	a) The pump strainer is partly blocked by impurities.	Clean the strainer.
	b) The liquid level in the tank is too low.	Increase the liquid level.
	c) Pump draws in air.	Check the inlet conditions.
	d) The pump rotates in the wrong direction.	Change the direction of rotation of the motor by switching any two of the phases.
	e) The impeller is damaged.	Replace the impeller.
6. Leakage in shaft seal.	a) Shaft seal is defective.	Replace the shaft seal.
7. Noise.	a) Cavitation.	Check the inlet conditions.
	b) Pump does not rotate freely (frictional resistance) because of incorrect pump shaft position.	Adjust the pump shaft.
	c) A bearing is damaged.	Replace the bearing.
	d) The pump is running single phase.	Check the electrical conditions.
	e) Some parts have come loose.	Check the installation conditions.

8. Technical data

Maximum permissible ambient temperature [°C]	+40
Permissible storage temperature [°C]	-50 to +70
Maximum operating pressure [bar]	7
Enclosure class according to IEC 60034-5	IP55
Motor insulation class	F
Maximum voltage fluctuation according to IEC 60034	± 10 %
Recommended maximum number of starts per hour	1.1 - 2.2 kW: 250 3-4 kW: 100
Dry running	Not allowed
Maximum installation altitude	1000 m

Pay attention to condensation problems in humid areas.

8.1 Vibration level

Vibration velocity RMS [mm/s]*	< 1.8

* Vibration according to ISO 10816-1 class IB.

8.2 Sound pressure level

Pump	Motor [kW]	LpA [dB(A)]	
		50 Hz	60 Hz
MTD	1.1 - 2.2	< 45	< 45
	3-4	< 62	< 62

9. Disposal

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.

Declaration of conformity

GB: EC/EU declaration of conformity
We, Grundfos, declare under our sole responsibility that the products MTA, MTD, to which the declaration below relates, are in conformity with the Council Directives listed below on the approximation of the laws of the EC/EU member states.

BG: Декларация за съответствие на ЕС/ЕО
Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктите MTA, MTD, за които се отнася настоящата декларация, отговарят на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на ЕС/ЕО.

CZ: Prohlášení o shodě EU
My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobky MTA, MTD, na které se toto prohlášení vztahuje, jsou v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

DE: EG-/EU-Konformitätserklärung
Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte MTA, MTD, auf die sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EG-/EU-Mitgliedsstaaten übereinstimmen.

DK: EF-/EU-overensstemmelseserklæring
Vi, Grundfos, erklærer under ansvar at produkterne MTA, MTD som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EF-/EU-medlemsstaternes lovgivning.

EE: EÜ/ELi vastavusdeklaratsioon
Meie, Grundfos, kinnitame ja kanname ainuisikulist vastutust selle eest, et toode MTA, MTD, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlustamise kohta EÜ/EL liikmesriikides.

ES: Declaración de conformidad de la CE/UE
Grundfos declara, bajo su exclusiva responsabilidad, que los productos MTA, MTD a los que hace referencia la siguiente declaración cumplen lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la CE/UE.

FI: EY-/EU-vaatimustenmukaisuusvakuutus
Grundfos vakuuttaa omalla vastuullaan, että tuotteet MTA, MTD, joita tämä vakuutus koskee, ovat EY-/EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukaisia seuraavasti.

FR: Déclaration de conformité CE/UE
Nous, Grundfos, déclarons sous notre seule responsabilité, que les produits MTA, MTD, auxquels se réfère cette déclaration, sont conformes aux Directives du Conseil concernant le rapprochement des législations des États membres CE/UE relatives aux normes énoncées ci-dessous.

GR: Δήλωση συμμόρφωσης ΕΚ/ΕΕ
Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα MTA, MTD, στα οποία αναφέρεται η παρακάτω δήλωση, συμμορφώνονται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΚ/ΕΕ.

HR: EC/EU deklaracija sukladnosti
Mi, Grundfos, izjavljujemo s punom odgovornošću da su proizvodi MTA, MTD, na koja se izjava odnosi u nastavku, u skladu s dolje navedenim direktivama Vijeća o usklađivanju zakona država članica EC/EU-a.

HU: EC/EU megfelelőségi nyilatkozat
Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) MTA, MTD termékek, amelyre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

IT: Dichiarazione di conformità CE/UE
Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti MTA, MTD, ai quale si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri CE/UE.

LT: EB/ES atitikties deklaracija
Mes, Grundfos, su visa atsakomybe pareiškiame, kad produktai MTA, MTD, kuriems skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl EB/ES šalių narių įstatymų suderinimo.

LV: EK/ES atbilstības deklarācija
Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkti MTA, MTD, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par EK/ES dalībvalstu normatīvo aktu tuvināšanu.

NL: EG-/EU-conformiteitsverklaring
Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat de producten MTA, MTD, waarop de onderstaande verklaring betrekking heeft, in overeenstemming zijn met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EG-/EU-lidstaten.

PL: Deklaracja zgodności WE/UE
My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze produkty MTA, MTD, których deklaracja niniejsza dotyczy, są zgodne z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

PT: Declaração de conformidade CE/UE
A Grundfos declara sob sua única responsabilidade que os produtos MTA, MTD, aos quais diz respeito a declaração abaixo, estão em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da CE/UE.

RO: Declarația de conformitate CE/UE
Noi Grundfos declarăm pe propria răspundere că produsele MTA, MTD, la care se referă această declarație, sunt în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre CE/UE.

RS: Deklaracija o usklađenosti EC/EU
Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod MTA, MTD, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EC/EU.

SE: EG-/EU-försäkran om överensstämmelse
Vi, Grundfos, försäkrar under ansvar att produkterna MTA, MTD, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådsdirektiv om inbördes närmande till EG-/EU-medlemsstaternas lagstiftning som listas nedan.

SI: Izjava o skladnosti ES/EU
V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek MTA, MTD, na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic ES/EU.

SK: EC/EU vyhlásenie o zhode
My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty MTA, MTD na ktoré sa vyhlásenie uvedené nižšie vzťahuje, sú v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EC/EÚ.

UA: Декларація відповідності директивам ЕС/ЕU
Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що вироби MTA, MTD, до яких відноситься нижченаведена декларація, відповідають директивам ЕС/ЕU, переліченим нижче, щодо тотожності законів країн-членів ЄС.

– Machinery Directive (2006/42/EC).
  Standard used: EN 809:1998, A1:2009.

– Electric motors:
  Commission Regulation No 640/2009.
  Applies only to three-phase Grundfos motors marked IE2 or IE3.
  See motor nameplate.
  Standard used: EN 60034-30:2009.
– RoHS Directives: (2011/65/EU and 2015/863/EU)
  Standard used: EN IEC 63000:2018

This EC/EU declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions (publication number 99787394).

Bjerringbro, 5th of January 2021

Erik Andersen
Senior Manager
GRUNDFOS Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro, Denmark

Person authorised to compile the technical file and empowered to sign the EC/EU declaration of conformity.

[10000171883]

UK declaration of conformity

We, Grundfos, declare under our sole responsibility that the products **MTA** and **MTD** to which the declaration below relates, are in conformity with UK regulations, standards and specifications to which conformity is declared, as listed below:

– Supply of Machinery (Safety) Regulations 2008
  Standard used: EN 809:1998, A1:2009.

– Electric motors:
  Regulation (EC) No 640/2009 and Regulation (EU) No 4/2014
  Applies only to three-phase Grundfos motors marked IE2 or IE3.
  See motor nameplate.
  Standard used: EN 60034-30-1:2009.

– The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2019
  Standard used: EN IEC 63000:2018

This UK declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions.

UK Importer: Grundfos Pumps ltd. Grovebury Road, Leighton Buzzard, LU7 4TL.

Bjerringbro, January 1, 2021

Erik Andersen
Senior Manager
Grundfos Holding A/S
Poul Due Jensens Vej 7
8850 Bjerringbro, Denmark

Person authorised to compile technical file and empowered to sign the UK declaration of conformity

10000335763

Argentina
Bombas GRUNDFOS de Argentina S.A.
Ruta Panamericana km. 37.500 Centro Industrial Garin
1619 Garín Pcia. de B.A.
Phone: +54-3327 414 444
Telefax: +54-3327 45 3190

Australia
GRUNDFOS Pumps Pty. Ltd.
P.O. Box 2040
Regency Park
South Australia 5942
Phone: +61-8-8461-4611
Telefax: +61-8-8340 0155

Austria
GRUNDFOS Pumpen Vertrieb Ges.m.b.H.
Grundfosstraße 2
A-5082 Grödig/Salzburg
Tel.: +43-6246-883-0
Telefax: +43-6246-883-30

Belgium
N.V. GRUNDFOS Bellux S.A.
Boomsesteenweg 81-83
B-2630 Aartselaar
Tél.: +32-3-870 7300
Télécopie: +32-3-870 7301

Belarus
Представительство ГРУНДФОС в Минске
220125, Минск
ул. Шафарнянская, 11, оф. 56, БЦ «Порт»
Тел.: +375 17 397 397 3
+375 17 397 397 4
Факс: +375 17 397 397 1
E-mail: minsk@grundfos.com

Bosnia and Herzegovina
GRUNDFOS Sarajevo
Zmaja od Bosne 7-7A,
BH-71000 Sarajevo
Phone: +387 33 592 480
Telefax: +387 33 590 465
www.ba.grundfos.com
e-mail: grundfos@bih.net.ba

Brazil
BOMBAS GRUNDFOS DO BRASIL
Av. Humberto de Alencar Castelo Branco, 630
CEP 09850 - 300
São Bernardo do Campo - SP
Phone: +55-11 4393 5533
Telefax: +55-11 4343 5015

Bulgaria
Grundfos Bulgaria EOOD
Slatina District
Iztochna Tangenta street no. 100
BG - 1592 Sofia
Tel. +359 2 49 22 200
Fax. +359 2 49 22 201
email: bulgaria@grundfos.bg

Canada
GRUNDFOS Canada Inc.
2941 Brighton Road
Oakville, Ontario
L6H 6C9
Phone: +1-905 829 9533
Telefax: +1-905 829 9512

China
GRUNDFOS Pumps (Shanghai) Co. Ltd.
10F The Hub, No. 33 Suhong Road
Minhang District
Shanghai 201106
PRC
Phone: +86 21 612 252 22
Telefax: +86 21 612 253 33

COLOMBIA
GRUNDFOS Colombia S.A.S.
Km 1.5 vía Siberia-Cota Conj. Potrero Chico,
Parque Empresarial Arcos de Cota Bod. 1A.
Cota, Cundinamarca
Phone: +57(1)-2913444
Telefax: +57(1)-8764586

Croatia
GRUNDFOS CROATIA d.o.o.
Buzinski prilaz 38, Buzin
HR-10010 Zagreb
Phone: +385 1 6595 400
Telefax: +385 1 6595 499
www.hr.grundfos.com

GRUNDFOS Sales Czechia and Slovakia s.r.o.
Čajkovského 21
779 00 Olomouc
Phone: +420-585-716 111

Denmark
GRUNDFOS DK A/S
Martin Bachs Vej 3
DK-8850 Bjerringbro
Tlf.: +45-87 50 50 50
Telefax: +45-87 50 51 51
E-mail: info_GDK@grundfos.com
www.grundfos.com/DK

Estonia
GRUNDFOS Pumps Eesti OÜ
Peterburi tee 92G
11415 Tallinn
Tel: + 372 606 1690
Fax: + 372 606 1691

Finland
OY GRUNDFOS Pumput AB
Trukkikuja 1
FI-01360 Vantaa
Phone: +358-(0) 207 889 500

France
Pompes GRUNDFOS Distribution S.A.
Parc d'Activités de Chesnes
57, rue de Malacombe
F-38290 St. Quentin Fallavier (Lyon)
Tél.: +33-4 74 82 15 15
Télécopie: +33-4 74 94 10 51

Germany
GRUNDFOS GMBH
Schlüterstr. 33
40699 Erkrath
Tel.: +49-(0) 211 929 69-0
Telefax: +49-(0) 211 929 69-3799
e-mail: infoservice@grundfos.de
Service in Deutschland:
e-mail: kundendienst@grundfos.de

Greece
GRUNDFOS Hellas A.E.B.E.
20th km. Athinon-Markopoulou Av.
P.O. Box 71
GR-19002 Peania
Phone: +0030-210-66 83 400
Telefax: +0030-210-66 46 273

Hong Kong
GRUNDFOS Pumps (Hong Kong) Ltd.
Unit 1, Ground floor
Siu Wai Industrial Centre
29-33 Wing Hong Street &
68 King Lam Street, Cheung Sha Wan
Kowloon
Phone: +852-27861706 / 27861741
Telefax: +852-27858664

Hungary
GRUNDFOS Hungária Kft.
Tópark u. 8
H-2045 Törökbálint,
Phone: +36-23 511 110
Telefax: +36-23 511 111

India
GRUNDFOS Pumps India Private Limited
118 Old Mahabalipuram Road
Thoraipakkam
Chennai 600 096
Phone: +91-44 2496 6800

Indonesia
PT. GRUNDFOS POMPA
Graha Intirub Lt. 2 & 3
Jln. Cililitan Besar No.454. Makasar, Jakarta Timur
ID-Jakarta 13650
Phone: +62 21-469-51900
Telefax: +62 21-460 6910 / 460 6901

Ireland
GRUNDFOS (Ireland) Ltd.
Unit A, Merrywell Business Park
Ballymount Road Lower
Dublin 12
Phone: +353-1-4089 800
Telefax: +353-1-4089 830

Italy
GRUNDFOS Pompe Italia S.r.l.
Via Gran Sasso 4
I-20060 Truccazzano (Milano)
Tel.: +39-02-95838112
Telefax: +39-02-95309290 / 95838461

Japan
GRUNDFOS Pumps K.K.
1-2-3, Shin-Miyakoda, Kita-ku, Hamamatsu
431-2103 Japan
Phone: +81 53 428 4760
Telefax: +81 53 428 5005

Korea
GRUNDFOS Pumps Korea Ltd.
6th Floor, Aju Building 679-5
Yeoksam-dong, Kangnam-ku, 135-916
Seoul, Korea
Phone: +82-2-5317 600
Telefax: +82-2-5633 725

Latvia
SIA GRUNDFOS Pumps Latvia
Deglava biznesa centrs
Augusta Deglava ielā 60, LV-1035, Rīga,
Tālr.: + 371 714 9640, 7 149 641
Fakss: + 371 914 9646

Lithuania
GRUNDFOS Pumps UAB
Smolensko g. 6
LT-03201 Vilnius
Tel: + 370 52 395 430
Fax: + 370 52 395 431

Malaysia
GRUNDFOS Pumps Sdn. Bhd.
7 Jalan Peguam U1/25
Glenmarie Industrial Park
40150 Shah Alam
Selangor
Phone: +60-3-5569 2922
Telefax: +60-3-5569 2866

Mexico
Bombas GRUNDFOS de México S.A. de C.V.
Boulevard TLC No. 15
Parque Industrial Stiva Aeropuerto
Apodaca, N.L. 66600
Phone: +52-81-8144 4000
Telefax: +52-81-8144 4010

Netherlands
GRUNDFOS Netherlands
Veluwezoom 35
1326 AE Almere
Postbus 22015
1302 CA ALMERE
Tel.: +31-88-478 6336
Telefax: +31-88-478 6332
E-mail: info_gnl@grundfos.com

New Zealand
GRUNDFOS Pumps NZ Ltd.
17 Beatrice Tinsley Crescent
North Harbour Industrial Estate
Albany, Auckland
Phone: +64-9-415 3240
Telefax: +64-9-415 3250

Norway
GRUNDFOS Pumper A/S
Strømsveien 344
Postboks 235, Leirdal
N-1011 Oslo
Tlf.: +47-22 90 47 00
Telefax: +47-22 32 21 50

Poland
GRUNDFOS Pompy Sp. z o.o.
ul. Klonowa 23
Baranowo k. Poznania
PL-62-081 Przeźmierowo
Tel: (+48-61) 650 13 00
Fax: (+48-61) 650 13 50

Portugal
Bombas GRUNDFOS Portugal, S.A.
Rua Calvet de Magalhães, 241
Apartado 1079
P-2770-153 Paço de Arcos
Tel.: +351-21-440 76 00
Telefax: +351-21-440 76 90

Romania
Grundfos Pompe România SRL
S-PARK BUSINESS CENTER, Clădirea A2,
etaj 2, Str. Tipografilor, Nr. 11-15, Sector 1,
Cod 013714, Bucuresti, Romania,
Tel: 004 021 2004 100
E-mail: romania@grundfos.ro
www.grundfos.ro

Russia
ООО Грундфос Россия
ул. Школьная, 39-41
Москва, RU-109544, Russia
Тел. (+7) 495 564-88-00 (495) 737-30-00
Факс (+7) 495 564 8811
E-mail grundfos.moscow@grundfos.com

Serbia
Grundfos Srbija d.o.o.
Omladinskih brigada 90b
11070 Novi Beograd
Phone: +381 11 2258 740
Telefax: +381 11 2281 769
www.rs.grundfos.com

Singapore
GRUNDFOS (Singapore) Pte. Ltd.
25 Jalan Tukang
Singapore 619264
Phone: +65-6681 9688
Telefax: +65-6681 9689

Slovakia
GRUNDFOS s.r.o.
Prievozská 4D
821 09 BRATISLAVA
Phona: +421 2 5020 1426
sk.grundfos.com

Slovenia
GRUNDFOS LJUBLJANA, d.o.o.
Leskoškova 9e, 1122 Ljubljana
Phone: +386 (0) 1 568 06 10
Telefax: +386 (0)1 568 06 19
E-mail: tehnika-si@grundfos.com

South Africa
Grundfos (PTY) Ltd.
16 Lascelles Drive, Meadowbrook Estate
1609 Germiston, Johannesburg
Tel.: (+27) 10 248 6000
Fax: (+27) 10 248 6002
E-mail: lgradidge@grundfos.com

Spain
Bombas GRUNDFOS España S.A.
Camino de la Fuentecilla, s/n
E-28110 Algete (Madrid)
Tel.: +34-91-848 8800
Telefax: +34-91-628 0465

Sweden
GRUNDFOS AB
Box 333 (Lunnagårdsgatan 6)
431 24 Mölndal
Tel.: +46 31 332 23 000
Telefax: +46 31 331 94 60

Switzerland
GRUNDFOS Pumpen AG
Bruggacherstrasse 10
CH-8117 Fällanden/ZH
Tel.: +41-44-806 8111
Telefax: +41-44-806 8115

Taiwan
GRUNDFOS Pumps (Taiwan) Ltd.
7 Floor, 219 Min-Chuan Road
Taichung, Taiwan, R.O.C.
Phone: +886-4-2305 0868
Telefax: +886-4-2305 0878

Thailand
GRUNDFOS (Thailand) Ltd.
92 Chaloem Phrakiat Rama 9 Road,
Dokmai, Pravej, Bangkok 10250
Phone: +66-2-725 8999
Telefax: +66-2-725 8998

Turkey
GRUNDFOS POMPA San. ve Tic. Ltd. Sti.
Gebze Organize Sanayi Bölgesi
Ihsan dede Caddesi,
2. yol 200. Sokak No. 204
41490 Gebze/ Kocaeli
Phone: +90 - 262-679 7979
Telefax: +90 - 262-679 7905
E-mail: satis@grundfos.com

Ukraine
Бізнес Центр Європа
Столичне шосе, 103
м. Київ, 03131, Україна
Телефон: (+38 044) 237 04 00
Факс.: (+38 044) 237 04 01
E-mail: ukraine@grundfos.com

United Arab Emirates
GRUNDFOS Gulf Distribution
P.O. Box 16768
Jebel Ali Free Zone
Dubai
Phone: +971 4 8815 166
Telefax: +971 4 8815 136

United Kingdom
GRUNDFOS Pumps Ltd.
Grovebury Road
Leighton Buzzard/Beds. LU7 4TL
Phone: +44-1525-850000
Telefax: +44-1525-850011

U.S.A.
GRUNDFOS Pumps Corporation
9300 Loiret Blvd.
Lenexa, Kansas 66219
Phone: +1-913-227-3400
Telefax: +1-913-227-3500

Uzbekistan
Grundfos Tashkent, Uzbekistan The Representative Office of Grundfos Kazakhstan in Uzbekistan
38a, Oybek street, Tashkent
Телефон: (+998) 71 150 3290 / 71 150 3291
Факс: (+998) 71 150 3292

Addresses Revised 09.09.2020

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