

Agitators 509

Electric agitator

Ⓜ Installation and operating instructions



Declaration of conformity

We **Grundfos Alldos** hereby declare under our sole responsibility that the products **509, electric agitator**, to which this declaration relates, comply with the following EC Directives for harmonisation with the legal requirements of the EC member states:

- Machinery (2006/42/EC).
- Standards which have been used:
EN ISO 12100, EN 60034-1:2004 und EN 60204-1:2006.

Pfingst, 01 July 2010

A handwritten signature in black ink, appearing to read 'Ulrich Stemick', enclosed in a thin black rectangular border.

Ulrich Stemick
Technical Director

CONTENTS

	page
1. General notes	3
1.1 Service documentation	3
2. Installation data	4
3. Installation sketch	4
4. Intended purpose	5
4.1 Guarantee	5
5. Safety	5
5.1 Identification of safety notices in this manual	5
5.2 Qualification and training of staff	5
5.3 Risks when safety notices are not observed	5
5.4 Safety-conscious working	5
5.5 Safety notices for the person responsible for operations / user	5
5.6 Safety notices for maintenance, inspection and installation work	5
5.7 Unauthorised modification and impermissible spare parts	5
5.8 Incorrect operation	5
6. Description of product and accessories	6
6.1 General description	6
6.2 Technical data	6
6.3 Fitted tank dosing station	6
6.4 Versions / order numbers	6
6.4.1 Material (mixer and spindle): stainless steel (1.4571)Mixer version: propeller	6
6.4.2 Material (mixer and spindle): PP, without sealing flangeMixer version: turbine	6
6.4.3 Material (mixer and spindle): PP, with sealing flangeMixer version: turbine	7
6.5 Motor data	7
6.6 For Grundfos Alldos dosing tanks	7
6.7 Performance data	7
6.8 Weight	7
6.9 Dimensional drawings	8
7. Transport and storage	9
7.1 Unpacking	9
7.2 Storage	9
8. Installation	9
8.1 General notes	9
8.2 Requirement of installation location for agitator, suction line and level switch	9
8.3 Installation	9
8.4 Electrical connections	10
9. Commissioning	10
10. Operation	10
11. Maintenance	10
11.1 Cleaning the agitator	10
11.1.1 Removal	10
11.1.2 Cleaning	10
11.1.3 Installation	10
12. Disposal	10

Warning

These installation and operating instructions are also available online at www.Grundfosalldos.com.



Please read these installation and operating instructions before installation. Installation and operation must be undertaken in accordance with local regulations and the rules of technology.

1. General notes

These installation and operating instructions contain all the information needed to commission and operate the agitator 509 listed below.

If you require further information or should problems arise which are not described in detail in this manual, please contact your nearest Grundfos Alldos branch.

1.1 Service documentation

If you have any other questions, please contact your nearest Grundfos Alldos branch.

2. Installation data

Note

Please enter the following data after commissioning. It will help you and your Grundfos Alldos service partner to undertake settings on the installation later on.

Owner:

Grundfos Alldos customer no.:

Contract no.:

Order no.:

Serial no.:

Commissioning on:

Installation site:

Used for:

3. Installation sketch



4. Intended purpose

Agitators from Grundfos Alldos, series 509, are intended for the mixing and loosening of dosing media as described in these instructions.

Caution

No other applications are approved or permitted. Grundfos Alldos is not liable for damage resulting from incorrect use.

4.1 Guarantee

In line with our general conditions of sale and delivery, a guarantee claim can only be recognised if:

- the agitator was only used as described in the corresponding instructions.
- the agitator has been neither dismantled nor incorrectly operated.
- repairs have only been carried out by authorised and qualified personnel.
- only genuine spare parts have been used for repairs.

5. Safety

These instructions contain general information which should be observed when installing, operating and maintaining the agitator. These instructions must therefore be read with care by technicians and appropriately trained specialists/operators before installation and commissioning and must always be available at the installation site.

It is not only the general safety notices described in this "Safety" section that must be observed, but all specific safety notices that are provided in the other sections too.

5.1 Identification of safety notices in this manual

If the safety notices or other information provided in these instructions are not observed, this may result in injury and the agitator may be damaged. Safety notices and other information are identified by the following symbols:



Warning

Failure to observe these safety notices may result in injury.

Caution

Failure to observe these safety notices may result in malfunction and damage to property.

Note

Information or instructions intended to simplify use and ensure safe operation.

Information on the agitator must be clearly legible at all times.

5.2 Qualification and training of staff

The staff responsible for operation, maintenance, inspection and installation must be suitably qualified for this work. Areas of responsibility, levels of responsibility and staff supervision must be precisely defined by the person responsible for operations.

If staff do not have the necessary knowledge, they should be trained and instructed accordingly. The person responsible for operations is in charge of ensuring that the staff understand the content of these instructions.

5.3 Risks when safety notices are not observed

Non-observance of the safety notices may have dangerous consequences for staff, the environment and the pump. Non-observance of the safety notices may lead to the loss of any claims for damages.

Non-observance of the safety notices may lead to the following risks:

- failure of important functions of the agitator / system
- failure of prescribed methods for maintenance
- personal injury caused by electrical, mechanical and chemical influences
- environmental damage due to media hazardous to health escaping.

5.4 Safety-conscious working

The safety notices in these instructions should be observed in the same way as statutory health and safety at work guidelines and the operating and safety notices provided by the person responsible for operations.

5.5 Safety notices for the person responsible for operations / user

Dangerous hot or cold parts on the agitator must be protected to avoid accidental contact.

Hazards caused by electrical energy must be prevented (for more details, please refer to the relevant regulations, for example those of the VDE and the local power supply company).

5.6 Safety notices for maintenance, inspection and installation work

The person responsible for operations must ensure that all installation, maintenance and inspection work is undertaken by authorised specialists who are appropriately trained by reading these instructions.

All work on the agitator may only be carried out with the device switched off.

All safety and protection equipment must be put back into operation as soon as work is complete.

Warning

Electrical connections may only be established by trained staff.

Do not open the agitator under any circumstances.

Repairs may only be undertaken by authorised and qualified staff.



Warning

When dosing dangerous media, observe the corresponding safety precautions.

Wear protective clothing (gloves and goggles) if required.



5.7 Unauthorised modification and impermissible spare parts

Modifications or changes to the agitator are only permitted with the consent of the manufacturer. Genuine spare parts and accessories approved by the manufacturer are safe to use.

Liability cannot be assumed if spare parts which are not genuine are used.

5.8 Incorrect operation

The operating safety of the agitator supplied is only ensured if it is used in compliance with section 6.2 *Technical data*. The specified limit values should on no account be exceeded.

6. Description of product and accessories

6.1 General description

The agitators 509 ensure that the dosing medium in the dosing tank is mixed constantly. The 1500 rpm agitators are suitable for dosing media with a low viscosity.

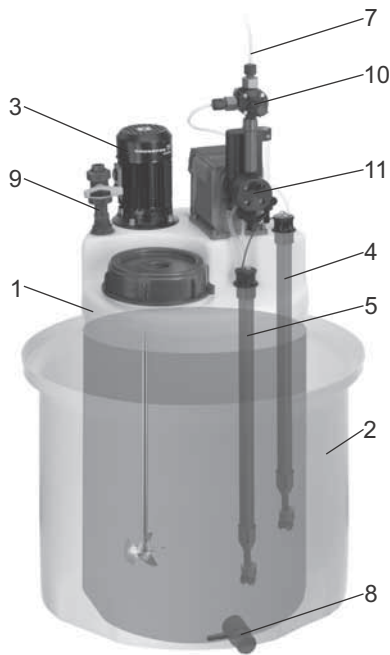
Grundfos Alldos agitators are available in the following versions.

- 7 sizes for Grundfos Alldos dosing tanks with contents of between 75 l and 1000 l.
- Plastic version: spindle PP-coated, mixer turbine made from PP.
 - The annular turbine draws in the product to be mixed axially and discharges it radially.
 - For outgassing media, with a sealing flange on the motor flange
- Stainless steel version for aggressive media: spindle and mixer propeller made from stainless steel 1.4571.
- Depending on agitator size, 3-phase current and optionally single-phase motor.

6.2 Technical data

- Permissible ambient temperature: 0 to +60
- Dosing medium must be in the liquid phase.

6.3 Fitted tank dosing station



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Fig. 1 Fitted tank dosing station (example)

Item	Description
1	Tank
2	Drip tray
3	Agitator
4	Level monitoring
5	Suction line
6	Injection unit (not shown)
7	Pressure line
8	Drain valve
9	Filling unit
10	Multi-function valve
11	Dosing pump

6.4 Versions / order numbers

6.4.1 Material (mixer and spindle): stainless steel (1.4571) Mixer version: propeller

Product no.	Motor	Order no.
509-11.1	Three-phase current	96726871 (509-11.1-10000)
	Single-phase	96698329 (509-11.1-10001)
509-21.1	Three-phase current	96697254 (509-21.1-10002)
	Single-phase	96698331 (509-21.1-10000)
509-31.1	Three-phase current	96726905 (509-31.1-10001)
	Single-phase	96698362 (509-31.1-10003)
509-41	Three-phase current	96726917 (509-41-10000)
509-51	Three-phase current	96698364 (509-51-10000)
509-61	Three-phase current	96698365 (509-61-10000)

6.4.2 Material (mixer and spindle): PP, without sealing flange Mixer version: turbine

Product no.	Motor	Order no.
509-12.1	Three-phase current	96726879 (509-12.1-10001)
	Single-phase	96726878 (509-12.1-10000)
509-22.1	Three-phase current	96726897 (509-22.1-10000)
	Single-phase	96726898 (509-22.1-10001)
509-32.1	Three-phase current	96726909 (509-32.1-10000)
	Single-phase	96726911 (509-32.1-10002)
509-42	Three-phase current	96726925 (509-42-10001)
509-52	Three-phase current	96726937 (509-52-10000)
509-62	Three-phase current	96726949 (509-62-10000)

**6.4.3 Material (mixer and spindle): PP, with sealing flange
Mixer version: turbine**

Product no.	Motor	Order no.
509-13.1	Three-phase current	96726884 (509-13.1-10001)
	Single-phase	96726883 (509-13.1-10000)
509-23.1	Three-phase current	96726901 (509-23.1-10002)
	Single-phase	96698134 (509-23.1-10001)
509-33.1	Three-phase current	96726913 (509-33.1-10000)
	Single-phase	96726916 (509-33.1-10003)
509-43	Three-phase current	96703370 (509-43-10000)
509-53	Three-phase current	96726939 (509-53-10000)
509-63	Three-phase current	96726954 (509-63-10000)

6.5 Motor data

- Three-phase current motor:
220-240/380-420 V, (50/60 Hz), 440-480 V (60 Hz), IP 65/F
- Single-phase motor:
230 V (50/60 Hz) Hz, IP 54/B, up to 200 l tank

6.6 For Grundfos Alldos dosing tanks

Product no.	Dosing tank
509-11.1, 509-12.1, 509-13.1	75 l
509-21.1, 509-22.1, 509-23.1	100 l
509-31.1, 509-32.1, 509-33.1	200 l
509-41, 509-42, 509-43	300 l
509-51, 509-52, 509-53	500 l
509-61, 509-62, 509-63	1000 l

6.7 Performance data

Product no.	Speed [rpm]	Motor power [kW]
509-11.1, 509-12.1, 509-13.1	1500	0.09
509-21.1, 509-22.1, 509-23.1	1500	0.09
509-31.1, 509-32.1, 509-33.1	1500	0.09
509-41, 509-42, 509-43	1500	0.25
509-51, 509-52, 509-53	1500	0.25
509-61, 509-62, 509-63	1500	0.55

6.8 Weight

Product no.	Weight [kg]
509-11.1, 509-12.1, 509-13.1	4
509-21.1, 509-22.1, 509-23.1	4
509-31.1, 509-32.1, 509-33.1	4
509-41, 509-42, 509-43	8
509-51, 509-52, 509-53	8
509-61, 509-62, 509-63	12

6.9 Dimensional drawings

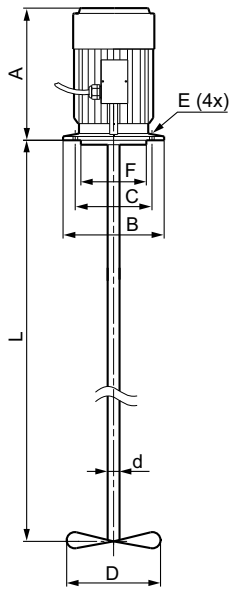


Fig. 2 Stainless steel version* with propeller as mixer

* Material of mixer and spindle

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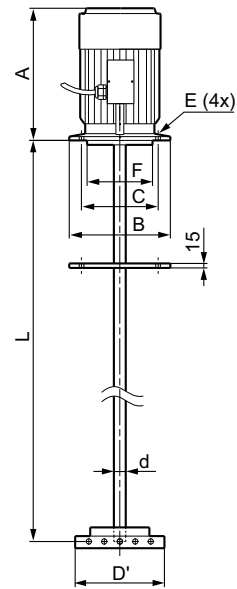


Fig. 3 PP version* with turbine as mixer

* Material of mixer and spindle

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Product no.	L	A	B	C	Ø D	Ø D'	Ø d	Ø E	F
509-11.1 - 509-13.1	500	210	140	115	80	80	12	9	95
509-21.1 - 509-23.1	650	210	140	115	80	80	12	9	95
509-31.1 - 509-33.1	750	210	140	115	90	80	12	9	95
509-41 - 509-43	900	237	160	130	110	100	18	9	110
509-51 - 509-53	1050	237	160	130	110	100	18	9	110
509-61 - 509-63	1050	234	160	130	130	100	25	9	110

Dimensions in mm

7. Transport and storage

Do not throw or drop the agitator 509.

In particular protect the mixer spindle and mixer from knocks, impact and twisting.

Caution *Do not hold or transport the agitator by the spindle or mixer.*

Do not use the protective packaging as packaging for transport.

7.1 Unpacking

- Unpack the agitator as soon as you receive it and check for visible transport damage.
- Retain the packaging for future storage or return, or dispose of the packaging in accordance with local regulations.
- Fit the agitator as soon as possible after unpacking.

7.2 Storage

Keep the agitator in a dry, cool place.

8. Installation

8.1 General notes



Warning

The agitator may only be fitted by a qualified specialist.

In particular protect the mixer spindle and mixer from knocks, impact and twisting.

Caution *When introducing into the tank, the mixer spindle must not be strained by the weight of the drive.*

Do not hold or transport the agitator by the spindle or mixer.

Caution *Minimum distance from tank base: 100 mm.*

Do not position agitator centrally in the tank.

8.2 Requirement of installation location for agitator, suction line and level switch

- Installation surfaces (dosing tank cover or mounting frames) must be as free from vibrations as possible.
- Mixer spindle and mixer must not touch any part of the tank.
- Do not position agitator centrally in the tank.
- The mixer must not be positioned too close to the tank base and it must not run dry.

The following dimensions are recommended as approximate figures for compliance with the installation requirements:

Product no.	a	b	c	d
509-11.1 – 509-13.1	100	160	115	20
509-21.1 – 509-23.1	100	160	115	20
509-31.1 (stainless steel)	125	180	150	20
509-32.1 – 509-33.1 (PP)	125	160	150	20
509-41 (stainless steel)	150	220	165	20
509-42 – 509-43 (PP)	150	200	165	20
509-51 (stainless steel)	175	220	200	20
509-52 – 509-53 (PP)	175	200	200	20
509-61 (stainless steel)	245	260	270	20
509-62 – 509-63 (PP)	245	200	270	20

Dimensions in mm

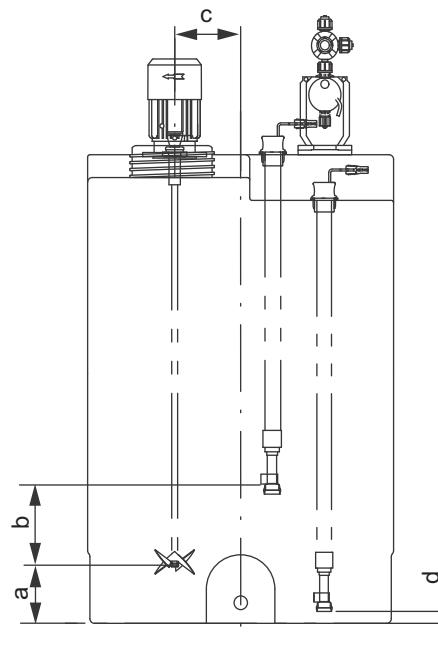


Fig. 4 Installation sketch

Item	Description
a	minimum distance between mixer and tank base
b	minimum distance of level switch above mixer
c	recommended distance between agitator and centre of tank
d	minimum distance between suction line and tank base

8.3 Installation

1. Install agitator vertically on suitable dosing tank 502 using 4 screws.
 - When guiding into tank do not twist mixer spindle or strain it with the weight of the drive.
2. After installation check that the mixer spindle and mixer are not touching any point of the tank.
3. Before commissioning use level switch to ensure the level monitoring.
 - Minimum distance between level switch and mixer: twice the diameter of the mixer ($\varnothing D$ or $\varnothing D'$) above the mixer (see Fig. 3).

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8.4 Electrical connections

Warning

Electrical connections may only be established by trained staff.

Before opening housing, disconnect agitator from power supply.

Observe the local safety regulations.

Protect the cable connections and plugs against corrosion and humidity.

Before connecting the mains cable check whether the supply voltage stated on the nameplate matches the local figures (permissible mains frequency deviation: $\pm 5\%$). An incorrect mains voltage may destroy the agitator.

Caution

1. Connect motor following circuit diagram in terminal box.
2. Fuse motor with a motor overload switch of the appropriate rating.
3. Check direction of rotation before commissioning (note arrow indicating direction of rotation).

9. Commissioning

When commissioning all the system's components must be ready for operation.

Follow the installation and operating instructions for the components used.

Caution

The agitator must not run if it has nothing to stir (run dry). Use level switch to generally ensure the correct level.

10. Operation

Note

Depending on the installation, the electric agitator is switched on and off using an external control unit during operations.

11. Maintenance

In the event of contamination or deposits, the agitator (mixer spindle and mixer) can be cleaned:

11.1 Cleaning the agitator

Warning

The entire system should be switched off before any maintenance work.

Disconnect supply voltage before opening housing.

Warning

The agitator may only be removed and fitted by a qualified specialist.

In particular protect the mixer spindle and mixer from knocks, impact and twisting.

When removing or introducing into the tank, the mixer spindle must not be strained by the weight of the drive.

Do not hold or transport the agitator by the spindle or mixer.

Caution

11.1.1 Removal

1. Remove electrical connections and level monitoring if necessary.
2. Loosen the agitator's 4 retaining bolts.
3. Lift agitator vertically out of the dosing tank.
 - Do not twist mixer spindle or strain with the weight of the drive.

11.1.2 Cleaning

1. Use appropriate cleaning agents to clean mixer spindle and mixer.

11.1.3 Installation

1. Install agitator vertically on dosing tank 502 using 4 screws.
 - When guiding into tank do not twist mixer spindle or strain it with the weight of the drive.
2. After installation check that the mixer spindle and mixer are not touching any point of the tank.
3. Before commissioning re-establish electrical connections and level monitoring with level switch, check direction of rotation.

12. Disposal

This product and all its associated parts must be disposed of in an environmentally friendly manner.

1. Suitable private waste disposal operations can be used here.
2. If no such operations exist or if they refuse to process the waste, the product can be sent to the closest Grundfos or Grundfos Alldos branch or service centre.

Argentina
Bombas GRUNDFOS de Argentina S.A.
Ruta Panamericana km. 37.500 Lote 34A
1619 - Garin
Pcia. de Buenos Aires
Phone: +54-3327 414 444
Telefax: +54-3327 411 111

Australia
Grundfos Alldos
Dosing & Disinfection
ALLDOS Oceania Pty. Ltd.
Unit 3 / 74 Murdoch Circuit
Acacia Ridge QLD 4100
Phone: +61 (0)7 3712 6888
Telefax: +61 (0)7 3272 5188
E-mail: alldos.au@alldos.com

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

Belorussia
Представительство ГРУНДФОС в Минске
220123, Минск,
ул. В. Хоружей, 22, оф. 1105
Тел.: +(37517) 233 97 65
Факс: (37517) 233 9769
E-mail: grundfos_minsk@mail.ru

Bosnia/Herzegovina
GRUNDFOS Sarajevo
Paromlinska br. 16,
BiH-71000 Sarajevo
Phone: +387 33 713290
Telefax: +387 33 231795

Brazil
Mark GRUNDFOS Ltda.
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 Pumpen Vertrieb
Representative Office - Bulgaria
Bulgaria, 1421 Sofia
Lozenetz District
105-107 Arsenalski Blvd.
Phone: +359 2963 3820, 2963 5653
Telefax: +359 2963 1305

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

China
Grundfos Alldos
Dosing & Disinfection
ALLDOS (Shanghai) Water Technology Co.
Ltd.
West Unit, 1 Floor, No. 2 Building (T 4-2)
278 Jinhu Road, Jin Qiao Export Processing
Zone
Pudong New Area
Shanghai, 201206
Phone: +86 21 5055 1012
Telefax: +86 21 5032 0596
E-mail: alldos.cn@alldos.com

China
GRUNDFOS Pumps (Shanghai) Co. Ltd.
22 Floor, Xin Hua Lian Building
755-775 Huai Hai Rd, (M)
Shanghai 200020
PRC
Phone: +86-512-67 61 11 80
Telefax: +86-512-67 61 81 67

Croatia
GRUNDFOS predstavništvo Zagreb
Cebini 37, Buzin
HR-10010 Zagreb
Phone: +385 1 6595 400
Telefax: +385 1 6595 499

Czech Republic
GRUNDFOS s.r.o.
Čapkovského 21
779 00 Olomouc
Phone: +420-585-716 111
Telefax: +420-585-716 299

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
Mestarintie 11
FIN-01730 Vantaa
Phone: +358-3066 5650
Telefax: +358-3066 56550

France
Grundfos Alldos
Dosing & Disinfection
ALLDOS S.A.R.L.
7, rue Gutenberg
F-67610 La Wantzenau
Tél.: +33-3 88 59 26 26
Télécopie: +33-3 88 59 26 00
E-mail : alldos.fr@alldos.com

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 Alldos
Dosing & Disinfection
ALLDOS Eichler GmbH
Reetzstraße 85
D-76327 Pfintzal (Söllingen)
Tel.: +49 7240 61-0
Telefax: +49 7240 61-177
E-mail: alldos.de@alldos.com

Germany
GRUNDFOS GMBH
Schlüterstr. 33
D-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.
Park u. 8
H-2045 Törökbalint,
Phone: +36-23 511 110
Telefax: +36-23 511 111

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

Indonesia
PT GRUNDFOS Pompa
Jl. Rawa Sumur III, Blok III / CC-1
Kawasan Industri, Pulogadung
Jakarta 13930
Phone: +62-21-460 6909
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.
Gotanda Metalion Bldg. 5F,
5-21-15, Higashi-gotanda
Shiagawa-ku, Tokyo,
141-0022 Japan
Phone: +81 35 448 1391
Telefax: +81 35 448 9619

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

México
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 Alldos
Dosing & Disinfection
ALLDOS BV
Leerlooiersstraat 6
NL-8601 WK Sneek
Tel.: +31-51 54 25 789
Telefax: +31-51 54 30 550
E-mail: alldos.nl@alldos.com

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

România
GRUNDFOS Pompe România SRL
Bd. Biruintei, nr 103
Pantelimon county Ilfov
Phone: +40 21 200 4100
Telefax: +40 21 200 4101
E-mail: romania@grundfos.ro

Russia
ООО Грундфос
Россия, 109544 Москва, ул. Школьная 39
Тел. (+7) 495 737 30 00, 564 88 00
Факс (+7) 495 737 75 36, 564 88 11
E-mail grundfos.moscow@grundfos.com

Serbia
GRUNDFOS Predstavništvo Beograd
Dr. Milutina Ivkovića 2a/29
YU-11000 Beograd
Phone: +381 11 26 47 877 / 11 26 47 496
Telefax: +381 11 26 48 340

Singapore
GRUNDFOS (Singapore) Pte. Ltd.
24 Tuas West Road
Jurong Town
Singapore 638381
Phone: +65-6865 1222
Telefax: +65-6861 8402

Slovenia
GRUNDFOS PUMPEN VERTRIEB
Ges.m.b.H.,
Podružnica Ljubljana
Šlandrova 8b, SI-1231 Ljubljana-Črnuče
Phone: +386 1 568 0610
Telefax: +386 1 568 0619
E-mail: slovenia@grundfos.si

South Africa
Grundfos Alldos
Dosing & Disinfection
ALLDOS (Pty) LTD
98 Matroosberg Road, Waterkloof Park
P.O. Box 36505, Menlo Park 0102
0181 ZA Pretoria
E-mail: alldos.za@alldos.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
431 24 Mölndal
Tel.: +46(0)771-32 23 00
Telefax: +46(0)31-331 94 60

Switzerland
Grundfos Alldos
Dosing & Disinfection
ALLDOS International AG
Schönmatstraße 4
CH-4153 Reinach
Tel.: +41-61-717 5555
Telefax: +41-61-717 5500
E-mail: alldos.ch@alldos.com

Switzerland
GRUNDFOS Pumpen AG
Bruggacherstrasse 10
CH-8117 Fällanden/ZH
Tel.: +41-1-806 8111
Telefax: +41-1-806 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 Chaloe 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
İhsan 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
ТОВ ГРУНДФОС УКРАЇНА
01010 Київ, Вул. Московська 86,
Тел.: (+38 044) 390 40 50
Факс: (+38 044) 390 40 59
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 Alldos
Dosing & Disinfection
ALLDOS Ltd.
39 Gravelly Industrial Park, Tyburn Road
Birmingham B24 8TG
Phone: +44-121-3283336
Telefax: +44-121-3284332
E-mail: alldos.uk@alldos.com

United Kingdom
GRUNDFOS Pumps Ltd.
Grovebury Road
Leighton Buzzard/Beds. LU7 8TL
Phone: +44-1525-850000
Telefax: +44-1525-850011

U.S.A.
GRUNDFOS Pumps Corporation
17100 West 118th Terrace
Olathe, Kansas 66061
Phone: +1-913-227-3400
Telefax: +1-913-227-3500

Uzbekistan
Представительство ГРУНДФОС в
Ташкенте
700000 Ташкент ул.Усмана Носира 1-й
тулик 5
Телефон: (3712) 55-68-15
Факс: (3712) 53-36-35

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