

GT-C, GT-CF, GT-D, GT-DF, GT-H

Installation and operating instructions



English (GB) Installation and operating instructions

Original installation and operating instructions.

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Warning



Prior to installation, read these installation and operating instructions. Installation and operation must comply with local regulations and accepted codes of good practice.

1. Symbols used in this document



Warning

If these safety instructions are not observed, it may result in 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. General description

The Grundfos GT-H, GT-C, GT-D, GT-DF and GT-CF are suitable for stabilising the pressure in domestic as well as industrial applications.



Fig. 1 Example of GT-H tank

2.1 Applications

- GT-H is a diaphragm tank for use in cold-water systems. The horizontal version has a base plate for mounting of a pump.
- GT-C is a composite tank for a wide range of applications.
- GT-CF is a composite tank with FlowThru technology for use in cold-water systems.
- GT-D is a chlorine-resistant double-diaphragm tank.
- GT-DF is a double-diaphragm tank with FlowThru technology.

The table below shows the tank types in relation to application.

Application	Tank type				
	GT-C	GT-H	GT-CF	GT-D	GT-DF
Drinking water	•	•	•	•	•
Grey wastewater*	•	•	-	•	-
Seawater	•	-	-	-	-

- Recommended.
- Not recommended.

* Grey wastewater is domestic wastewater, for example from dishwashers, washing machines and cabinet showers.

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3. Nameplate

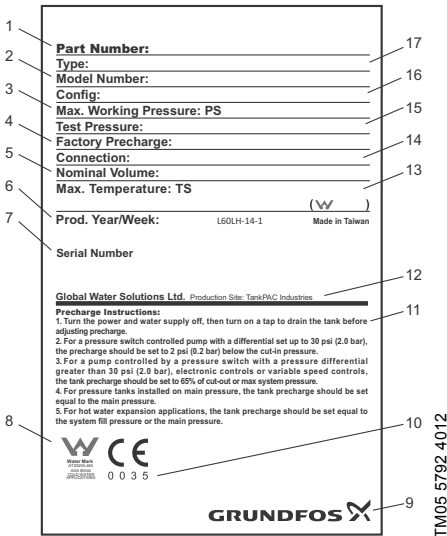


Fig. 2 Example of nameplate

Pos.	Description
1	Product number
2	Model number
3	Max. working pressure
4	Factory-set precharge pressure
5	Total tank volume
6	Production code (year and week)
7	Serial number
8	Marking
9	Manufacturer
10	Notified body
11	Adjustment of precharge pressure
12	Production site
13	Max. working temperature
14	Thread connection
15	Test pressure
16	Configuration code
17	Type designation

4. Installation

Before installation, check the following:

- Do the specifications of the GT tank correspond to the order?
- Are all visible parts intact?
- Is the maximum system pressure lower or equal to the maximum operating pressure for the GT tank? See tank nameplate.

4.1 Lifting the tank

The top of large tanks has a welded-on flange/nut in which a lifting eye can be fitted. When the tank is in place and secured to the floor, the lifting eye can be removed.

4.2 Location

Always install the GT tank in the discharge pipe as close to the pump as possible.

Install the GT tank in a frost-free room. It must be possible to inspect the GT tank from all sides.

The air-filling valve, water shut-off and discharge must be accessible, and the nameplate must be visible.

Install the GT tank so that it is not stressed by the pipework. If vibrations are likely to occur, we recommend that the GT tank is installed so that vibrations are absorbed.

We recommend to follow these steps:

1. Lift and position the GT tank.
2. Level as required (horizontally and vertically).
3. Secure the GT tank.
4. Connect the pipes and fittings.
5. Check/adjust the precharge pressure.
6. Start the pump or application.

No additional loads from the piping system or equipment are allowed.

Floor installation

Large GT tanks must be secured to the floor by means of bolts. Use bolts, washers and nuts that are suitable for the surface of the floor or base frame. Use all bolt holes in the base frame when securing the GT tank.

Tanks with steel bases should be mounted using the brackets supplied, while tanks with plastic bases should be mounted through the bolt holes in the base. For bases without bolt holes, drill four holes at equal distance in the rim of the base.

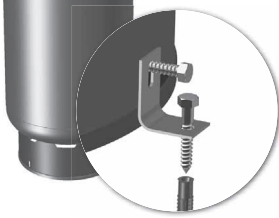


Fig. 3 Installation of tank with steel base

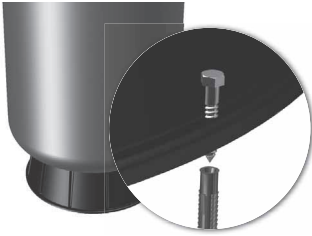


Fig. 4 Installation of tank with plastic base

Wall installation

Small GT tanks up to 33 litres must be secured to a wall or similar.

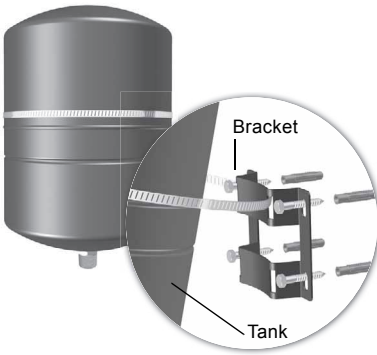


Fig. 5 Example of wall installation with wall bracket

4.3 Precharge pressure

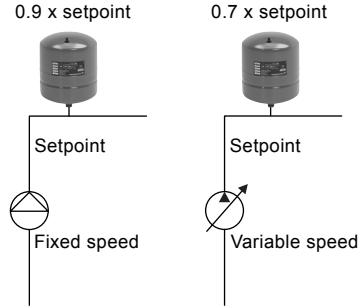
The GT tanks are supplied from factory with a precharge pressure. See tank nameplate.

The precharge pressure must be adjusted according to the actual application and the installed pump. It should be slightly below the pump cut-in setting.

Recommended precharge pressures:

- 0.9 x setpoint for fixed-speed pumps
- 0.7 x setpoint for variable-speed pumps.

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Fig. 6 Precharge pressure

4.3.1 Adjusting the precharge pressure

Warning



Before starting work on the product, make sure there is no system pressure on the tank.

Disconnect pumps or switch off the power supply.

If the precharge pressure is not suitable for the application, adjust it as follows:

1. Switch off the pump. Open the nearest tap to make sure that no system pressure is affecting the reading.
2. Remove the protective cap.
3. Check the precharge pressure with a suitable pressure gauge.
4. Release or add air as required to make the precharge pressure equal to the recommended precharge pressure.
5. Fit the protective cap to prevent air from escaping from the tank.



Never exceed the maximum operating pressure of the tank.

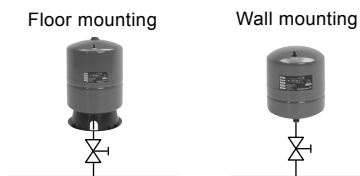
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4.4 System check

The GT tank must be bypassed if the system pressure exceeds the maximum operating pressure of the GT tank during a system check.

4.5 Isolating valves

We recommend to install an isolating valve in connection with the GT tank.



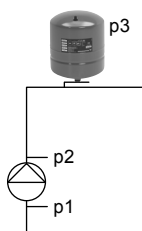
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Fig. 7 Isolating valves

4.6 Maximum operating pressure

The maximum operating pressure of the pump (p_2) plus the actual inlet pressure (p_1) must not exceed the maximum operating pressure of the GT tank (p_3). See fig. 8.

See pump and tank nameplates.

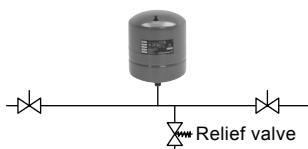


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Fig. 8 Maximum operating pressure

4.7 Relief valve

Install a relief valve. Set the relief valve to open at or below the maximum operating pressure of the GT tank. This will protect the GT tank and other system components. The relief valve should be installed at the connection of the GT tank to the pipe system and have a discharge equal to the pump capacity at maximum operating pressure.



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Fig. 9 Relief valve

5. Maintenance

The GT tank is a maintenance-free, but we recommend to check it for damage two times a year:

- Is corrosion visible?
- Are there any visible scratches, dents, etc.?

In case of serious damage, contact your nearest Grundfos company.

6. Technical data

See tank nameplate.

7. Fault finding

Warning

Before starting work on the product, switch off the power supply.

Make sure that the power supply cannot be accidentally switched on.



Make sure that the tank is pressureless before removing it from the pipe system. Close the isolating valves and release the precharge pressure through the air valve.

Fault	Cause	Remedy
1. Frequent starts/stops.	a) Incorrect precharge pressure.	Adjust the pressure according to section 4.3 Precharge pressure .
	b) Diaphragm broken. Water escapes if the air valve is pushed down.	Replace the GT tank.
	c) Leakage in pipework.	Check and repair the pipework.

8. 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.

Subject to alterations.

Declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products GT-C, GT-CF, GT-D, GT-DF and GT-H, to which the declaration below relates, are in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

DK: EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produkterne GT-C, GT-CF, GT-D, GT-DF og GT-H som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EU-medlemsstaternes lovgivning.

GR: Δήλωση συμμόρφωσης ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα GT-C, GT-CF, GT-D, GT-DF και GT-H, στα οποία αναφέρεται η παρακάτω δήλωση, συμμορφώνονται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΕ.

FR: Déclaration de conformité UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que les produits GT-C, GT-CF, GT-D, GT-DF et GT-H, auxquels se réfère cette déclaration, sont conformes aux Directives du Conseil concernant le rapprochement des législations des États membres UE relatives aux normes énoncées ci-dessous.

HU: EU megfelelésségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) GT-C, GT-CF, GT-D, GT-DF és GT-H termékek, amelyre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

PL: Deklaracja zgodności UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze produkty GT-C, GT-CF, GT-D, GT-DF oraz GT-H, których deklaracja niniejsza dotyczy, są zgodne z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

RU: Декларация о соответствии нормам ЕС

Мы, компания Grundfos, со всей ответственностью заявляем, что изделия GT-C, GT-CF, GT-D, GT-DF и GT-H, к которым относится нижеприведенная декларация, соответствуют нижеприведённым Директивам Совета Евросоюза о тождественности законов стран-членов ЕС.

SK: ES vyhlásenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty GT-C, GT-CF, GT-D, GT-DF a GT-H na ktoré sa vyhlásenie uvedené nižšie vzťahuje, sú v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov EÚ.

SE: EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkterna GT-C, GT-CF, GT-D, GT-DF och GT-H, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådsdirektiv om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobky GT-C, GT-CF, GT-D, GT-DF a GT-H, na které se toto prohlášení vztahuje, jsou v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte GT-C, GT-CF, GT-D, GT-DF und GT-H, auf die sich diese Erklärung beziehen, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EU-Mitgliedsstaaten übereinstimmen.

ES: Declaración de conformidad de la UE

Grundfos declara, bajo su exclusiva responsabilidad, que los productos GT-C, GT-CF, GT-D, GT-DF y GT-H 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 UE.

IT: Dichiarazione di conformità UE

Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti GT-C, GT-CF, GT-D, GT-DF e GT-H, ai quale si riferisce questa dichiarazione, sono conformi alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri UE.

NL: EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat de producten GT-C, GT-CF, GT-D, GT-DF en GT-H, 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 EU-lidstaten.

PT: Declaração de conformidade UE

A Grundfos declara sob sua única responsabilidade que os produtos GT-C, GT-CF, GT-D, GT-DF e GT-H, aos quais diz respeito a declaração abaixo, estão em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da UE.

RO: Declarația de conformitate UE

Noi Grundfos declarăm pe propria răspundere că produsele GT-C, GT-CF, GT-D, GT-DF și GT-H, la care se referă această declarație, sunt în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre UE.

FI: EU-vaatimusten mukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuotteet GT-C, GT-CF, GT-D, GT-DF ja GT-H, joita tämä vakuutus koskee, ovat EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukaisia seuraavasti.

TR: AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan GT-C, GT-CF, GT-D, GT-DF ve GT-H ürünlerinin, AB Üye ülkelerinin direktiflerinin yakınlştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

The products are diaphragm pressure expansion tanks.

All products are examined under these conditions:

Fluid group: 2.

Module: B + D.

Design standard: ANSI / WSC (Water System Council) PST2000-2005 Pressurized Water Tank Standard.

EC/EU-type examination certificate No: See table below.

Notified body: CE 0038 - Lloyd's Register Verification Limited, 71 Fenchurch Street London EC3M 4BS UK.

Manufacturer: GRUNDFOS Holding A/S, Poul Due Jensens Vej 7, 8850 Bjerringbro, Denmark.

Type	Maximum pressure [bar]	Volume [litres]	Category used	Certificate number
GT-C	8.6	60-450	IV	0038/PED/20040012/I
GT-CF	8.6	60-200	IV	
GT-D	10	60-450	IV	
GT-DF	10	80-325	IV	

The products are diaphragm pressure expansion tanks.

All products are examined under these conditions:

Fluid group: 2.

Module: H.

Design standard: ANSI / WSC (Water System Council) PST2000-2005 Pressurized Water Tank Standard.

EC/EU-type examination certificate No: See table below.

Notified body: CE 0038 - Lloyd's Register Verification Limited, 71 Fenchurch Street London EC3M 4BS UK.

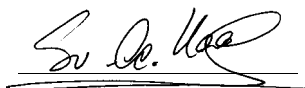
Manufacturer: GRUNDFOS Holding A/S, Poul Due Jensens Vej 7, 8850 Bjerringbro, Denmark.

Type	Maximum pressure [bar]	Volume [litres]	Design standard	Certificate number
GT-H	10	8-200	ANSI/WSC PST 2000 - 2005	01 202 ROC/Q-12 0246
GT-H	16	80-160	EN 13831:2007	
GT-H stainless steel	10	8-30	ANSI/WSC PST 2000 - 2005	

- Pressure Equipment Directive (2014/68/EU).

This EC declaration of conformity is only valid when published as part of the Grundfos installation and operating instructions (publication number 98042769 1116).

Bjerringbro, 8th August 2016



Svend Aage Kaae
 Director
 Grundfos Holding A/S
 Poul Due Jensens Vej 7
 8850 Bjerringbro, Denmark

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



Расширительные баки GT сертифицированы на соответствие требованиям Технического регламента Таможенного союза ТР ТС 010/2011 «О безопасности машин и оборудования».

Сертификат соответствия:

ТС RU С-ДК.АИ30.В.01161, срок действия до 04.12.2019 г.

Расширительные баки GT прошли подтверждение соответствия требованиям Технического регламента Таможенного союза ТР ТС 032/2013 «О безопасности оборудования, работающего под избыточным давлением».

Декларации соответствия:

ТС N RU Д-ДК.АИ30.В.03460, срок действия до 04.12.2019 г. (категория 1)

ТС N RU Д-ДК.АИ30.В.03460, срок действия до 10.07.2021 г. (категория 2)

Сертификат соответствия:

ТС RU С-ДК.АИ30.В.01184, срок действия до 10.12.2019 г. (категория 3)

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Адрес: 153032, Российская Федерация, г. Иваново, ул. Станкостроителей, д.1.

Истра, 11 июля 2016 г.

Касаткина В. В.
Руководитель отдела качества,
экологии и охраны труда
ООО Грундфос Истра, Россия
143581, Московская область,
Истринский район,
дер. Лешково, д.188

Argentina

Bombas GRUNDFOS de Argentina S.A.
Ruta Panamericana km. 37.500 Centro
Industrial Garin
1619 Garin 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.: +7 (375 17) 286 39 72/73
Факс: +7 (375 17) 286 39 71
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

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.
Park u. 8
H-2045 Törökbálint,
Phone: +36-23 511 110
Telefax: +36-23 511 111

India

GRUNDFOS Pumps India Private
Limited
118 Old Mahablipuram 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 6000
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
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, г. Москва, ул. Школьная,
39-41, стр. 1
Тел. (+7) 495 564-88-00 (495)
737-30-00
Факс (+7) 495 564 88 11
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
Corner Mountjoy and George Allen
Roads
Wilbart Ext. 2
Bedfordview 2008
Phone: (+27) 11 579 4800
Fax: (+27) 11 455 6066
E-mail: lsmart@grundfos.com

Spain

Bombas GRUNDFOS España S.A.
Camino de la Fuenteclia, 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 Chaloeem 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
17100 West 118th Terrace
Olathe, Kansas 66061
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 02.09.2016

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98042769 1116

ECM: 1194257

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