

GT-H, GT-HR, GT-U

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.

2. General description

The Grundfos GT-U, GT-H and GT-HR are long-life pressure tanks ideally suited for controlling the pressure in domestic as well as industrial applications.



TM05 0657 1411

Fig. 1 Example of GT-U tank

2.1 Applications

- GT-U is a vertical tank for use in cold-water systems.
- GT-H is a horizontal tank for use in cold-water systems. The tank has a base plate for mounting of a pump.
- GT-HR for use in cooling or heating systems.

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

Application	Tank type		
	GT-U	GT-H	GT-HR
Drinking water	•	•	-
Grey wastewater*	•	•	-
Chilled water	•	-	•
Heating	-	-	•

• Recommended.

- Not recommended.

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

3. Nameplate

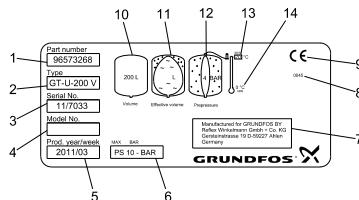


Fig. 2 Nameplate

TM05 0688 1411

Pos.	Description
1	Product number
2	Type designation
3	Serial number
4	Model number
5	Production code (year and week)
6	Maximum system pressure [bar]
7	Production company
8	Notified body
9	Marking
10	Total tank volume [l]
11	Effective tank volume [l]
12	Precharge pressure [bar]
13	Maximum operating temperature
14	Minimum operating temperature

4. Installation



Warning

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

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

If the GT tank incorporates lifting eyes, all lifting eyes must be used.

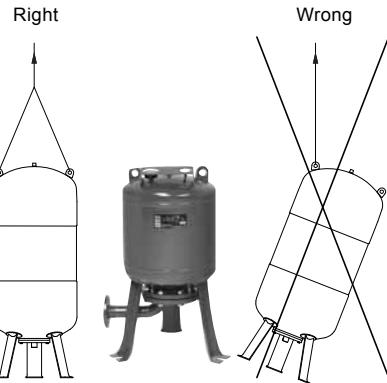


Fig. 3 Lifting the tank

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 gas-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.

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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 frame when securing the GT tank.

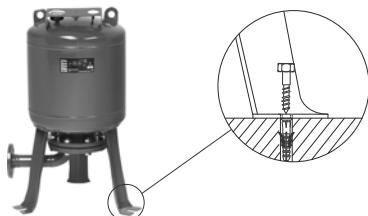


Fig. 4 Example of floor installation

Wall installation

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

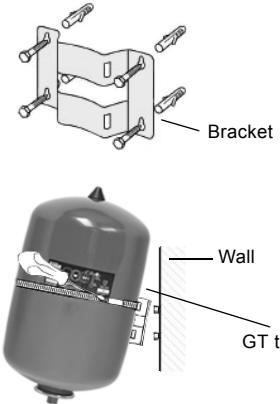


Fig. 5 Example of wall installation with wall bracket

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. The precharge pressure should be slightly below the pump cut-in setting.

Recommended precharge pressures:

- $0.9 \times \text{setpoint}$ for fixed-speed pumps
- $0.7 \times \text{setpoint}$ for variable-speed pumps.

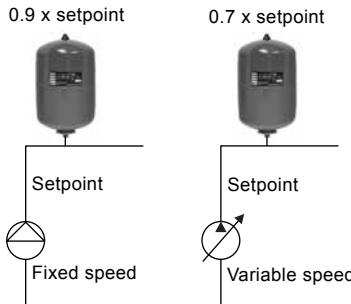


Fig. 6 Precharge pressure

Adjustment of precharge pressure

If the precharge pressure is not suitable for the application, it should be adjusted according to these recommendations:

1. Use a suitable pressure gauge to check the precharge pressure.
2. Release or add nitrogen as required to make the precharge pressure equal to the recommended precharge pressure.

4.4 System check

The GT tank must be by-passed 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 on either side of the GT tank.



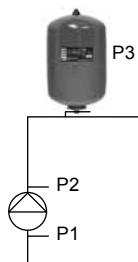
TM05 0226 0811

Fig. 7 Isolating valves

4.6 Maximum operating pressure

The maximum operating pressure of the pump (P2) plus the actual inlet pressure (P1) must not exceed the maximum operating pressure of the GT tank (P3). See fig. 8.

See pump and tank nameplates.



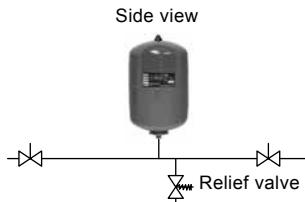
TM05 0227 0811

Fig. 8 Maximum operating pressure

4.7 Relief valve

Install a relief valve. Set the relief valve to open at the maximum operating pressure. 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.



TM05 0228 0811

Fig. 9 Relief valve

5. Maintenance

Check the precharge pressure annually.

Before checking the pressure, make sure that there is no water in the GT tank (switch off the pump, and open a tap). If water escapes during the precharge pressure check, the bladder is defective.

The bladder in GT tanks with a volume larger than 80 litres can be replaced.

Check the GT tank for damage:

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

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

6. Technical data

See tank nameplate.

7. Disposal

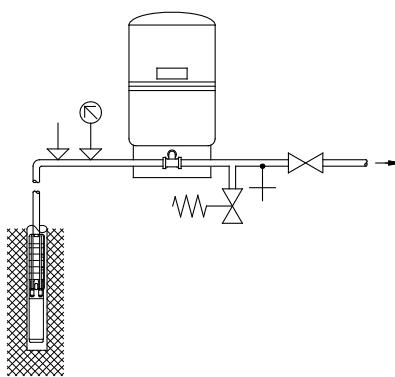
This product or parts of it must be disposed of in an environmentally sound way:

1. Use the public or private waste collection service.
2. If this is not possible, contact the nearest Grundfos company or service workshop.

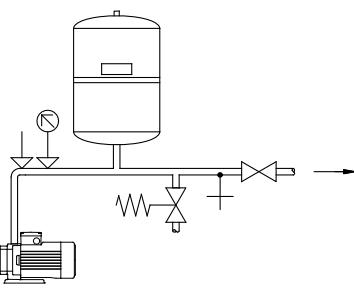
Subject to alterations.

Appendix

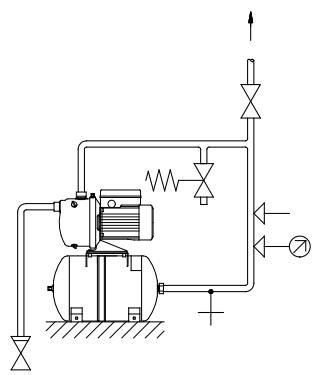
Installation examples



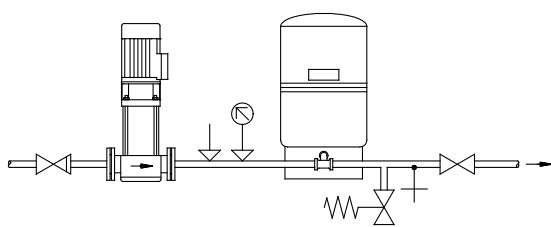
TM01 0469 1297



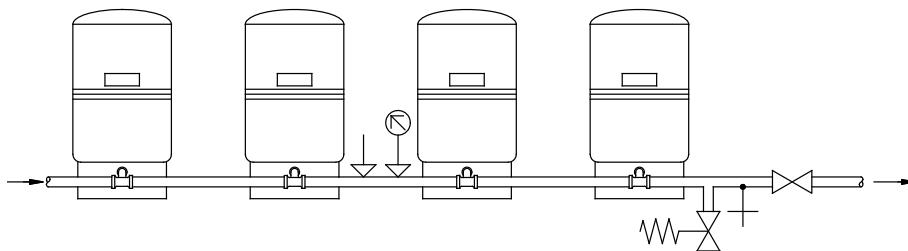
TM01 0503 1297



TM01 0502 1297



TM01 0501 1297



TM01 0501 1297



GB	Isolating valve
BG	Спирателен кран
CZ	Uzavírací ventil
DK	Afspæringsventil
DE	Absperrventil
GR	Βαλβίδα απορόνωσης
ES	Válvula de corte
FR	Vanne d'isolation
IT	Valvola di intercettazione
HU	Elzáró szerelvények
NL	Afsluiter
PL	Zawór odcinający
PT	Válvula de isolamento
RU	Клиновая задвижка
RO	Vană de izolare
SK	Uzatváracia armatúra
FI	Sulkuvuonttiili
SE	Avstängningsventil
TR	Kapama vanası



GB	Pressure gauge
BG	Манометър
CZ	Manometr
DK	Manometer
DE	Manometer
GR	Μανόμετρο
ES	Manómetro
FR	Manomètre
IT	Manometro
HU	Nyomásmérő
NL	Manometer
PL	Manometr
PT	Manómetro
RU	Манометр
RO	Manometru
SK	Manometer
FI	Painemittari
SE	Manometer
TR	Manometre



GB	Relief valve
BG	Вентил за изпускане
CZ	Přepouštěcí ventil
DK	Sikkerhedsventil
DE	Sicherheitsventil
GR	Ανακουφιστική βαλβίδα
ES	Válvula de seguridad
FR	Soupape de décharge
IT	Valvola di sfioro
HU	Biztonsági szelep
NL	Overstortventiel
PL	Zawór bezpieczeństwa
PT	Válvula de segurança
RU	Предохранительный клапан
RO	Supapă de siguranță
SK	Poistný prepúšťací ventil
FI	Varoventtiili
SE	Säkerhetsventil
TR	Boşaltma valfi



GB	Non-return valve
BG	Възвратен вентил
CZ	Zpětný ventil
DK	Kontraventil
DE	Rückschlagventil
GR	Αντεπίστροφη βαλβίδα
ES	Válvula de retención
FR	Clapet de retenue
IT	Valvola di non ritorno
HU	Visszacsapó szelep
NL	Terugslagklep
PL	Zawór zwrotny
PT	Válvula de retenção
RU	Обратный клапан
RO	Clapetă de reținere
SK	Spätný ventil
FI	Takaiskuventtiili
SE	Backventil
TR	Çek valf



GB Pressure switch
 BG Превключвателя за налягане
 CZ Tlakový spínač
 DK Pressostat
 DE Druckschalter
 GR Πιεζοστάτης
 ES Presostato
 FR Contacteur manométrique
 IT Pressostato
 HU Nyomáskapcsoló
 NL Drukschakelaar
 PL Łącznika ciśnienia
 PT Pressostato
 RU Реле давления
 RO Presostat
 SK Tlakový spínač
 FI Painekatkaisija
 SE Tryckbrytare
 TR Basınç şalteri



GB Drain
 BG Дренаж
 CZ Vypouštěcí cohout
 DK Dræntappested
 DE Ablasshahn
 GR Αποστράγγιση
 ES Drenaje
 FR Robinet de vidange
 IT Drenaggio
 HU Leeresztőnyílás
 NL Aftap
 PL Przewód
 PT Descarga
 RU Слив
 RO Purjare
 SK Vypúšťací ventil
 FI Tyhjennystulppa
 SE Dränering
 TR Boşaltma

Declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the products GT-H, GT-U and GT-HR, to which this declaration relates, are in conformity with these Council directives on the approximation of the laws of the EU member states:

CZ: Prohlášení o shodě EU

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

DE: EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass die Produkte GT-H, GT-U und GT-HR, 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-H, GT-U y GT-HR, 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: Dichiariatione di conformità UE

Grundfos dichiara sotto la sua esclusiva responsabilità che i prodotti GT-H, GT-U e GT-HR, ai quali 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-H, GT-U en GT-HR, 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-H, GT-U e GT-HR, 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-H, GT-U și GT-HR, la care se referă această declarație, sunt în conformitate cu Directivelor de Consiliu specificate mai jos printr-armonizarea legilor statelor membre UE.

FI: EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuotteet GT-H, GT-U ja GT-HR, joita tämä vakuutus koskee, ovat EU:n jäsenvaltioiden lainsäädännön lähetämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukaisia seuraavasti.

TR: AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan GT-H, GT-U ve GT-HR ürünlerinin, AB Üye ülkelerinin direktiflerinin yakındanlaştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

BG: Декларация за съответствие на ЕО

Ние, фирма Grundfos, заявяваме съ пълна отговорност, че продуктите GT-H, GT-U и GT-HR, за които се отнася настоящата декларация, отговарят на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на ЕО.

DK: EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produkterne GT-H, GT-U og GT-HR som erklaeringen nedenfor omhandler, er i overensstemmelse med Raadets direktiver der er nævnt nedenfor, om indbyrdes tilnærmetil EU-medlemsstaternes lovgivning.

GR: Δήλωση συμμόρφωσης ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι τα προϊόντα GT-H, GT-U και GT-HR, 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-H, GT-U et GT-HR, 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 megfelelőségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy az(z) GT-H, GT-U és GT-HR termékek, amelyre az alábbi nyilatkozat vonatkozik, megfelelnek az Európai Unió tagállamainak jogi irányelvét összehangoló tanács alábbi előírásainak.

PL: Deklaracja zgodności UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasze produkty GT-H, GT-U oraz GT-HR, 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-H, GT-U и GT-HR, к которым относится нижеприведенная декларация, соответствуют нижеприведенным директивам Совета Европейского Союза о тождественности законов стран-членов ЕС.

SK: ES vyhlášenie o zhode

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkty GT-H, GT-U a GT-HR 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-H, GT-U och GT-HR, som omfattas av nedanstående försäkran, är i överensstämmelse med de råddirektiv om inbördes närmande till EU-medlemsstaternas lagstiftning som listas nedan.

The products are diaphragm pressure expansion tanks.

All products are examined under these conditions:

Fluid group: 2.

Module: B + D.

Design standard: EN 13831.

EC-type examination certificate No: See table below.

Notified body: CE 0045 - TÜV Nord Systems GmbH & Co. KG, Große Bahnstraße 31, D-22525 Hamburg.
Manufacturer: GRUNDFOS Management A/S, Poul Due Jensens Vej 7, 8850 Bjerringbro, Denmark.

Type	Maximum pressure [bar]	Volume [litres]	Category used	Certificate number
GT-H	10	25-100	II	07 202 1403 Z 0550 / 14 / D1045
GT-U	10	12-18	I	
GT-U	10	25-33	II	07 202 1403 Z 0553 / 14 / D1045 Rev. 3
GT-U	10	80-100	II	
GT-U	10	200-300	III	07 202 1403 Z 0554 / 14 / D1045 Rev. 2
GT-U	10	400-500	IV	
GT-U	10	600-5000	IV	07 202 1403 Z 0926 / 15 / D1045
GT-U	16	12	I	
GT-U	16	25	II	07 202 1403 Z 0552 / 14 / D1045 Rev. 3
GT-U	16	80-100	III	07 202 1403 Z 0922 / 15 / D1045 Rev. 2
GT-U	16	200-300	IV	
GT-U	16	400-5000	IV	07 2002 1403 Z 0543 / 7 / D001
GT-U	25	8	I	07 202 1403 Z 0551 / 14 / D1045 Rev. 3
GT-U	25	80-120	III	07 202 1403 Z 0574 / 2 / D0045 Rev. 1
GT-U	25	180-1000	IV	
GT-U	25	1500-3000	IV	07 2002 1403 Z 0544 / 7 / D001
GT-HR	6	12-24	I	
GT-HR	6	35-140	II	07 202 1403 Z 0913 / 15 / D1045 Rev. 2
GT-HR	6	200-400	III	
GT-HR	6	500-1000	IV	07 2002 1403 Z 0546 / 7 / D001

– 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 96550312 0317).

Bjerringbro, 8th August 2016

Svend Aage Kaae
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Poul Due Jensens Vej 7
8850 Bjerringbro, Denmark

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

Declaration of conformity EAC



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

Сертификат соответствия:
TC RU C-DK.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:
TC N RU Д-DK.АИ30.В.03460, срок действия до 04.12.2019 г. (категория 1)
TC N RU Д-DK.АИ30.В.03460, срок действия до 10.07.2021 г. (категория 2)

Сертификат соответствия:
TC RU C-DK.АИ30.В.01184, срок действия до 10.12.2019 г. (категория 3)
TC RU C-DK.АИ30.В.01186, срок действия до 10.12.2019 г. (категория 4)

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Истра, 11 июля 2016 г.

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