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

Installation and operating instructions



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GRUNDFOS

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

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1. General information



This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.



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

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 the 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.

1.3 Target group

These installation and operating instructions are intended for professional as well as non-professional users.

2. Product introduction

2.1 Product description

Grundfos GT-H, GT-C, GT-D, GT-DF, and GT-CF pressure tanks are suitable for stabilizing pressure in domestic and industrial applications.



GR-1032798

2.1.1 Intended use

- GT-H is a diaphragm tank for use in cold-water systems. The horizontal version has a base plate for mounting 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 the application.

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

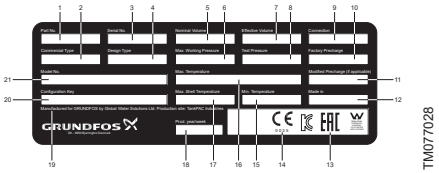
● Recommended.

- Not recommended.

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

2.2 Identification

2.2.1 Nameplate



Example of nameplate

Pos.	Description
1	Product number
2	Type designation
3	Serial number
4	Design type
5	Nominal volume
6	Max. working pressure
7	Effective volume
8	Test pressure
9	Thread connection
10	Factory precharge pressure
11	Adjustment of precharge pressure
12	Country of origin
13	Marking
14	Notified body
15	Min. working temperature
16	Max. working temperature
17	Max. shell temperature

Pos.	Description
18	Production code (year and week)
19	Manufacturer
20	Configuration code
21	Model number

3. Installation requirements

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

Before installation, check the following:

- Do the GT tank specifications correspond to your 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.

3.1 Lifting the product

The top of large tanks has a welded-on flange or 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.

3.2 Location

- The GT tank must be installed in the outlet pipe as close to the pump as possible.
- The GT tank must be installed in a frost-free room.
- For inspection purposes, the GT tank should be accessible from all sides. The air-filling valve, water shut-off, and outlet must be accessible, and the nameplate must be visible.
- The GT tank must be installed so that it is not stressed by the pipes. Should the vibrations occur, we recommend installing the GT tank in a way that ensures the vibrations are absorbed.

4. Mechanical installation

4.1 Installing the product

Before installation, do the following:

1. Check that the specifications of the GT tank correspond to the order.
2. Check that all visible parts are intact.
3. Check that the maximum system pressure is lower or equal to the maximum operating pressure for the GT tank.

   See tank nameplate.

4.2 Positioning the product

We recommend following 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 pipe system or equipment are allowed.

4.2.1 Floor installation

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

Tanks with steel bases should be mounted using the supplied brackets, 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.



TM055778

Installation of the tank with a steel base

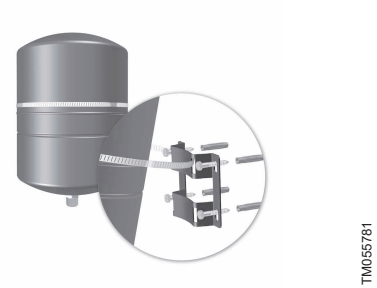


TM055777

Installation of the tank with a plastic base

4.2.2 Wall installation

Small GT tanks up to 35 litres must be secured to a wall or similar.



TM055781

Example of wall installation with a wall bracket (product no. 00ID9070)

4.3 Precharge pressure

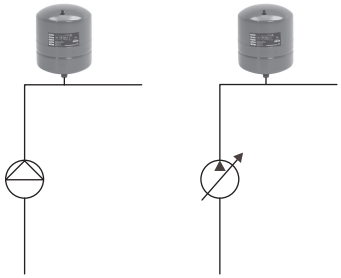
The GT tanks are supplied from the factory with a precharge pressure. See tank nameplate.

The precharge pressure must be adjusted according to the actual application and the installed pump.

The precharge pressure must 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.



Precharge pressure

4.3.1 Adjusting the precharge pressure

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.

4.3.2 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.

4.3.3 Isolating valves

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

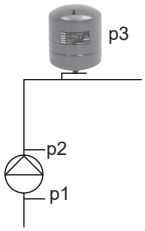


Isolating valves

4.3.4 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 figure Maximum operating pressure.

See pump and tank nameplates.



Maximum operating pressure

4.3.5 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.



Relief valve

5. Maintenance

The GT tank is maintenance-free, but we recommend checking the tank for damage two times a year.

If the tank is removed, when the tank and/or the system is still pressurized, make sure that the tank is without pressure.

Close the isolating valves and remove the precharge pressure through the air valve.

5.1 Maintenance schedule

- 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 whether the bladder is defective.

5.2 Checking the GT tank for damage

During maintenance, check the following:

1. Is corrosion visible?
2. Are scratches, dents, etc., visible?

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

6. Fault finding

Fault	Cause	Remedy
Frequent starts/stops.	a) Incorrect precharge pressure.	Adjust the pressure according to section *Precharge pressure*.
	b) Diaphragm broken. Water escapes if the air valve is pushed down.	Replace the GT tank.

7. Technical data

See tank nameplate.

8. Disposing of the product

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

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

The crossed-out 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*.

9. Certificates

Contact Grundfos for more information on the product certificates.

10. Declaration of Conformity

For more information on the Declaration of Conformity, scan the QR code to access Global Water Solutions Ltd (GWS) website:



QRTM078944

https://www.globalwatersolutions.com/DOC

RUS

GT-H, GT-HR, GT-U

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