

MTD with integrated motor

Installation and operating instructions



English (GB) Installation and operating instructions

Original installation and operating instructions

These installation and operating instructions describe Grundfos MTD pumps.

Sections 1-4 give the information necessary to be able to unpack, install and start up the product in a safe way.

Sections 5-9 give important information about the product, as well as information on service, fault finding and disposal of the product.

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1. General information



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

1.1 Symbols used in this document

WARNING



Indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.

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 text accompanying the three hazard symbols DANGER, WARNING and CAUTION is structured in the following way:

SIGNAL WORD

Description of hazard



Consequence of ignoring the warning.
- Action to avoid the hazard.



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. 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.

3. Installing the product

3.1 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.

3.1.1 Tank size

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.

3.2 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.

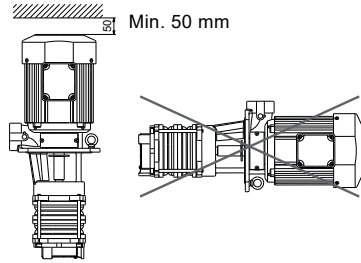


Fig. 1 Mounting position



Note that a minimum clearance of 30 mm from pump inlet and to the bottom of the tank is required.



Make sure that there is always a clearance of 25 mm to the mounting flange.



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

TM05 1690 4411

3.2.1 Terminal box positions

The terminal box can be turned to another position.

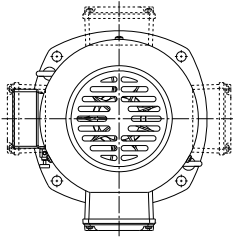


Fig. 2 Terminal box positions (top view)

Proceed as follows:

1. Remove the bolts securing the motor to the pump.
2. Turn the motor to the required position.
3. Refit and tighten the bolts securing the motor to the pump.

3.3 Electrical connection

DANGER

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.



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 pump 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.

TM06 8153 1216

4. 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 or on the sight glass. When seen from the top, the pump must rotate counterclockwise.
2. Start the pump and check the direction of rotation.

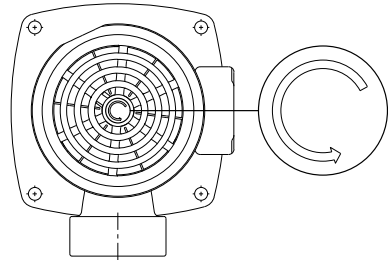


Fig. 3 Motor fan cover with indication of the correct direction of rotation

TM04 8004 2610

5. Product introduction

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

5.1 Pumped liquids

DANGER



Fire and explosion

Death or serious personal injury
 - Do not use the pump for flammable, combustible or explosive liquids.



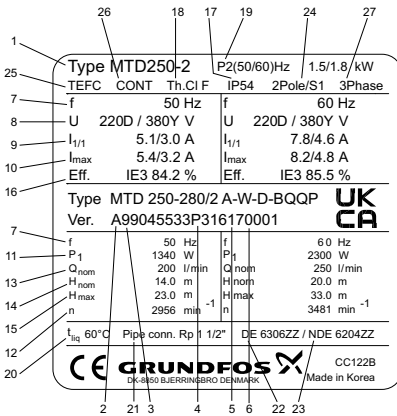
Liquids with a viscosity higher than the one permitted can cause a decrease in motor life time or lead to a motor failure.

Pumped liquid requirements

Maximum chip size [mm]	10
Maximum kinetic viscosity [mm ² /s]	32
Permissible liquid temperature [°C]	0-60

5.2 Identification

5.2.1 Nameplate



TM06 8243 04Z1

Fig. 4 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	Supply voltage
9	Full-load current
10	Maximum current
11	Motor input power
12	Rated speed
13	Rated flow rate
14	Rated head
15	Maximum head
16	Efficiency class
17	Motor enclosure class
18	Motor insulation class
19	Rated P2
20	Maximum temperature of pumped liquid
21	Pipe connection
22	Motor drive-end bearing
23	Motor non-drive-end bearing
24	Number of poles / duty type
25	Totally enclosed fan cooling
26	Duty (continuous)
27	Phase

5.2.2 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										
A = PAA GF50										
B = Bronze										
C = Cast iron										
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										

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 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

Automatic startup



Death or serious personal injury

- Before starting work on the product, make sure that the power supply has been switched off and cannot accidentally be switched on.

Fault	Cause	Remedy
1. The motor does not run when the power supply is switched on.	a) Supply failure.	Connect the power supply.
	b) The fuses are blown.	Replace the fuses.
	c) The motor-protective circuit breaker has tripped.	Reactivate the motor protection.
	d) The main contacts in the motor-protective circuit breaker are not making contact or the coil is faulty.	Replace the contacts or the magnetic coil.
	e) The control circuit is defective.	Repair the control circuit.
	f) The motor is defective.	Replace the pump.
2. The motor-protective circuit breaker trips immediately when the power supply is switched on.	a) The fuse on one phase is blown.	Replace the fuse.
	b) The contacts in the motor-protective circuit breaker are faulty.	Replace the contacts in the motor-protective circuit breaker.
	c) The cable connection is loose or faulty.	Fasten or replace the cable connection.
	d) The motor winding is defective.	Replace the pump.
	e) The pump is mechanically blocked.	Remove the mechanical blocking of the pump.
	f) The overload setting is too low.	Set the motor-protective circuit breaker correctly.
3. The motor-protective circuit breaker trips occasionally.	a) The overload setting is too low.	Set the motor-protective circuit breaker correctly.
	b) Low voltage at peak times.	Check the power supply.
4. The motor-protective circuit breaker has not tripped, but the pump does not run.	a) Check 1 a), b), d) and e).	
5. The pump runs, but gives no liquid or the pump performance is not constant.	a) The pump inlet is partly blocked by impurities.	Clean the inlet.
	b) The liquid level in the tank is too low.	Increase the liquid level.
	c) The pump rotates in the wrong direction.	Change the direction of rotation of the motor by switching any two of the phases.
	d) A lot of bubbles in the liquid.	Check the operating conditions.
	e) The piping systems are blocked or have high resistance.	Check the piping system.
	f) The impeller is damaged.	Replace the impeller.
6. Noise and vibration are high.	a) A bearing is damaged.	Replace the bearing.
	b) The pump is running single phase.	Check the electrical connection.
	c) 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	IP54
Motor insulation class	F
Maximum voltage fluctuation according to IEC 60034	± 10 %
Recommended maximum number of starts per hour	0-3 kW ≤ 200 3.7 → ≤ 40
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
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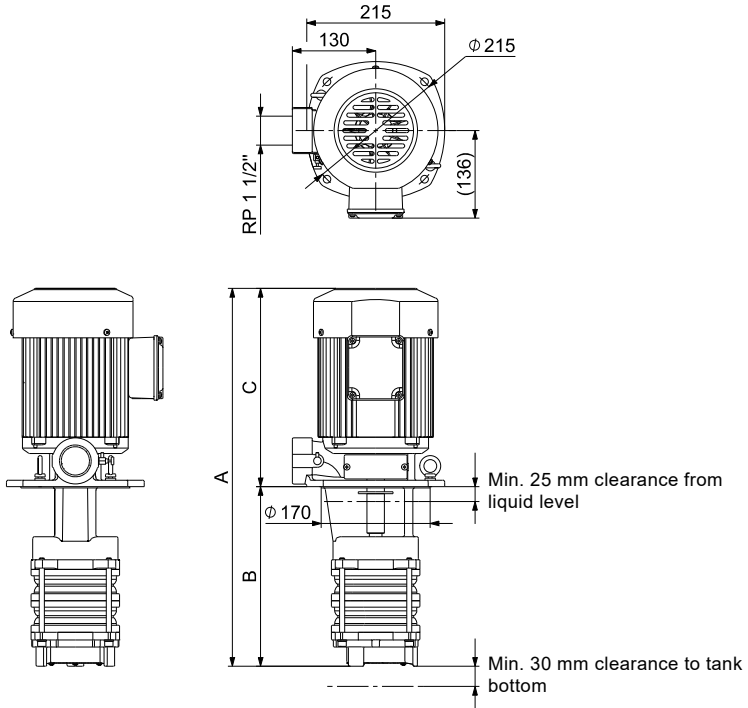
* Vibration according to ISO 10816-1 class IB

8.2 Sound pressure level

Pump	Rated P2 [W]	L _{pA} [dB(A)]	
		50 Hz	60 Hz
MTD 250-XXX/2	1500/1800	< 70	< 70
MTD 250-XXX/3	2200/2500	< 70	< 70
MTD 250-XXX/4	3000/3700	< 75	< 75

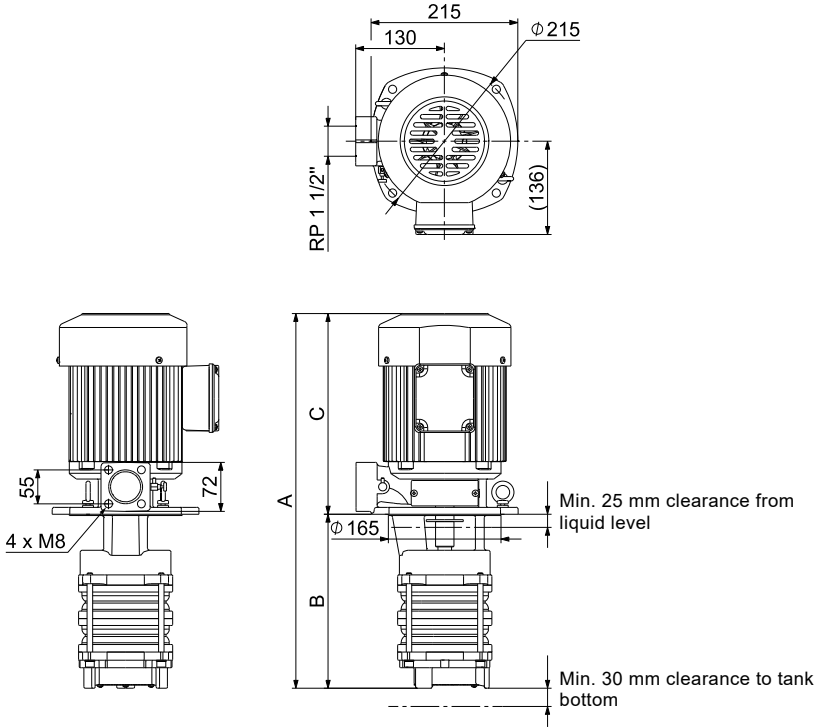
8.3 Dimensions

8.3.1 Installation dimensions



TM06 8248 1617

Pump	Dimensions		
	C [mm]	B [mm]	A [mm]
MTD250-230/2	291	230	521
MTD250-280/2	291	280	571
MTD250-330/2	291	330	621
MTD250-280/3	306	280	586
MTD250-330/3	306	330	636
MTD250-330/4	346	330	676



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Fig. 6 Installation dimensions

Pump	Dimensions		
	C [mm]	B [mm]	A [mm]
MTD250-205/2	291	205	496
MTD250-255/2	291	255	546
MTD250-305/2	291	305	596
MTD250-255/3	306	255	561
MTD250-305/3	306	305	611
MTD250-305/4	346	305	651

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.

Declaration of conformity

GB: EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the product MTD, to which the declaration below relates, is in conformity with the Council Directives listed below on the approximation of the laws of the EU member states.

JP: EU 適合宣言

Grundfos は、その責任の下に、MTD 製品が EU 加盟諸国の法規に関連する、以下の評議会指令に適合していることを宣言します。

TW: EU 合格聲明

葛蘭富根據我們唯一的責任，茲聲明與以下聲明相關之 MTD 產品，符合下列近似 EU 會員國法律之議會指令。

CN: 欧盟符合性声明

我们，格兰富，在我们的全权责任下声明，产品 MTD 系列，其制造和性能完全符合以下所列欧盟委员会指令。

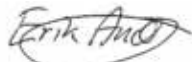
KO: EU 적합성 선언

Grundfos 는 아래의 선언과 관련된 MTD 제품이 EU 회원국 법률에 기반하여 아래의 이사회 지침을 준수함을 단독 책임 하에 선언합니다.

- 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 (99254983).

Bjerringbro, 5th of January 2021



Erik Andersen
Senior Manager
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Person authorised to compile the technical file and empowered to sign the EC/EU declaration of conformity

Declaration of conformity

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



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10000335763

Safety declaration

Please copy, fill in and sign this sheet and attach it to the pump returned for service.

Medium and application

Which medium has the pump been used for: _____

In which application has the pump been used: _____

Fault description

If possible please make a circle around the faulty part.
(In case of an electrical fault, please mark the terminal box.)



TM04 0359 1008

Please give a short description of the fault:

We hereby declare that this product is free from hazardous chemicals, biological and radioactive substances.

Date and signature

Company stamp

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