

MTA

Installation and operating instructions



English (GB) Installation and operating instructions

Original installation and operating instructions.

CONTENTS

	Page
1. Symbols used in this document	2
2. Applications	2
2.1 Pumped liquids	2
3. Identification	3
3.1 Nameplate	3
3.2 Type key	3
4. Technical data	3
4.1 Sound pressure level	4
4.2 Vibration level	4
5. Installation	4
5.1 Pump position	4
5.2 Dimensions	5
5.3 Liquid level	6
6. Electrical connection	7
7. Startup	8
8. Operation and maintenance	8
8.1 Lubrication and maintenance	8
8.2 Filters	8
8.3 Periodic checks	8
9. Service	8
10. Fault finding	9
11. Disposal	9



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.



Notes or instructions that make the job easier and ensure safe operation.

2. Applications

The Grundfos pump, type MTA, is a single-stage centrifugal pump designed for the pumping of cooling lubricants and cutting oil for machine tools.

2.1 Pumped liquids

Pump	Max. particle size [mm]
MTA 30	4-5
MTA 60	
MTA 90	8-10
MTA 120	
MTA 200	
MTA 20H	4-5
MTA 40H	
MTA 70H	
MTA 100H	
Max. kinematic viscosity [mm ² /s] (= cSt) 90	
Permissible liquid temperature [°C] 0 to +60	



Warning

The pump must not be used for the transfer of inflammable liquids such as diesel oil, petrol or similar liquids.

3. Identification

3.1 Nameplate

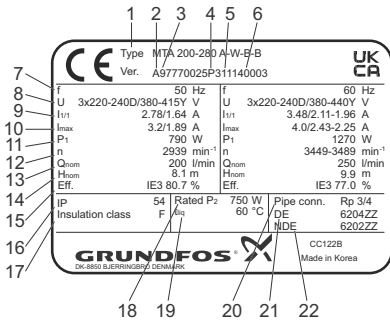


Fig. 1 Example of nameplate

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	Max. current
11	Motor input power
12	Rated speed
13	Rated flow
14	Rated head
15	Efficiency class (only applies to MTA 200)
16	Motor enclosure class
17	Motor insulation class
18	Rated P2
19	Max. temperature of pumped liquid
20	Pipe connection
21	Motor drive-end bearing
22	Motor non-drive-end bearing

3.2 Type key

Example MTA 30 H -150 -A -W -A -T

Pump type

Pump size

Pressure type

Installation length [mm]

Pump version:

A = Standard version

Thread type:

W = Internal thread

WB = Internal NPT thread

Impeller material:

A = PAA GF50

B = Bronze

Suction:

T = Top

B = Bottom

4. Technical data

Max. permissible ambient temperature [°C]	+40
Permissible storage temperature [°C]	-50 to +70
Enclosure class according to IEC 60034-5	IP54
Motor insulation class	F
Max voltage fluctuation according to IEC 60034	± 10 %
Recommended maximum number of starts per hour for all MTA pumps	250

Note

Pay attention to condensation problems in humid areas.

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4.1 Sound pressure level

Pump	Rated P2 [W]	L _{pA} [dB(A)]	
		50 Hz	60 Hz
MTA 30	100	< 45	< 45
MTA 60	180	< 45	< 45
MTA 90	250	< 45	< 45
MTA 120	400	< 62	< 62
MTA 200	750	< 62	< 62
MTA 20H	100	< 45	< 45
MTA 40H	180	< 45	< 45
MTA 70H	250	< 45	< 45
MTA 100H	400	< 62	< 62

4.2 Vibration level

Vibration velocity RMS [mm/s]*	< 1.8
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* Vibration according to ISO 10816-1 class IB

5. Installation



Warning

The pump must be installed so that persons cannot accidentally come into contact with the hot surface of the motor.



Warning

The pump must be installed so that persons cannot accidentally come into contact with the rotating parts.

5.1 Pump position

Note The MTA pumps can only be mounted in vertical position.

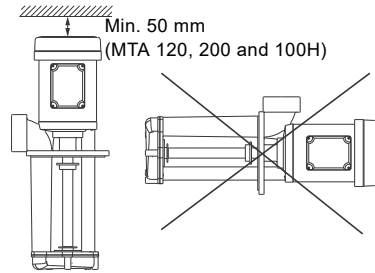


Fig. 2 Mounting position

The pump is designed for tank mounting in vertical position. The pump is positioned in a hole cut into the cover of the tank (upper side) and is secured to the tank by four or two hexagon head screws through the holes in the mounting flange. We recommend to fit a sealing gasket between the pump flange and tank.

Provide a clearance of minimum 50 mm above the motor to ensure cooling of fan-cooled motors (MTA 120, 200 and 100H).

The pump is designed for indoor operation only.

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

5.2 Dimensions

5.2.1 Installation dimensions

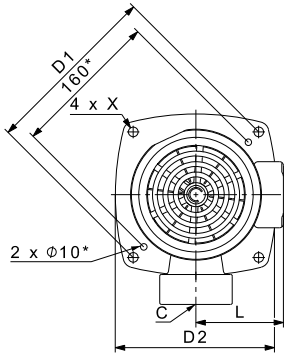


Fig. 3 Installation dimensions

* applies only to MTA 120

Pump	C	D1 [mm]	D2 [mm]	L [mm]	X [mm]
MTA 30	Rp 3/8 / G 1/2 / 1/2" NPT	132	116	100	Ø7
MTA 60	Rp 1/2 / G 3/4 / 3/4" NPT	160	143	112.5	Ø10
MTA 90	Rp 3/4 / G 3/4 / 3/4" NPT	160	154	112.5	Ø10
MTA 120	Rp 1 / G 1 1/4 / 1 1/4" NPT	180	155	126.5	Ø10
MTA 200	Rp 2 / G 1 1/2 / 1 1/2" NPT	220	200	134.5	Ø12
MTA 20H	Rp 3/8 / G 1/2 / 1/2" NPT	132	116	100	Ø7
MTA 40H	Rp 1/2 / G 3/4 / 3/4" NPT	160	143	112.5	Ø10
MTA 70H	Rp 3/4 / G 3/4 / 3/4" NPT	160	154	112.5	Ø10
MTA 100H	Rp 1 / G 1 / 1" NPT	180	175	124	Ø10

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5.2.2 Tank hole and cable entry

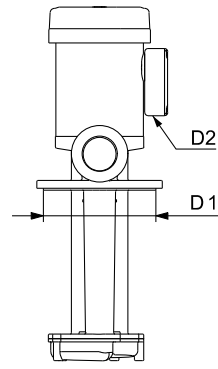


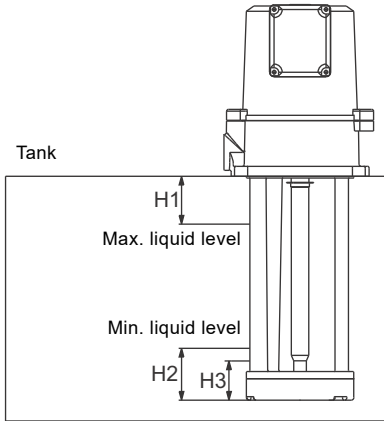
Fig. 4 Tank hole and cable entry

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Pump	Tank hole	Cable entry hole
	D1 [mm]	D2 [mm]
MTA 30	Ø90	Ø22
MTA 60	Ø115	Ø22
MTA 90	Ø128	Ø22
MTA 120	Ø135	Ø22
MTA 200	Ø180	Ø22
MTA 20H	Ø100	Ø22
MTA 40H	Ø135	Ø22
MTA 70H	Ø135	Ø22
MTA 100H	Ø155	Ø22

5.3 Liquid level

5.3.1 MTA with top suction



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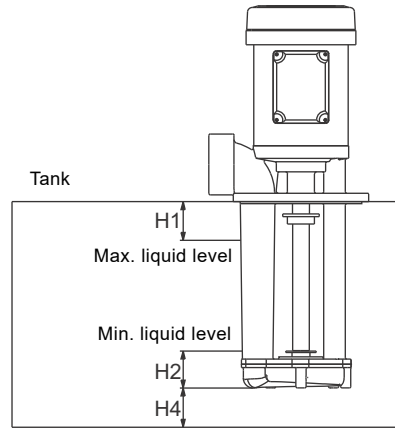
Fig. 5 MTA with top suction

Pump	H1 [mm]	H2* [mm]	H3** [mm]
MTA 30	15	60	50
MTA 60	20	70	45
MTA 90	20	85	58
MTA 120	20	110	70
MTA 20H	15	50	40
MTA 40H	20	70	40
MTA 70H	20	80	50
MTA 100H	20	110	60

* Min. liquid level (full performance).

** Min. permissible liquid level (reduced performance).

5.3.2 MTA with bottom suction



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Fig. 6 MTA with bottom suction

Pump	H1 [mm]	H2* [mm]	H4 [mm]
MTA 30	15	20	10
MTA 60	20	20	10
MTA 90	20	25	15
MTA 120	20	25	20
MTA 200	25	50	30

* Min. liquid level (full performance).

6. Electrical connection

The electrical connection should be carried out in accordance with local regulations.



Warning

Never make any connections in the pump terminal box unless the power supply has been switched off.

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.

We do not recommend operation via frequency converter.

Terminal box positions

The terminal box can be turned to another position.

Pump	Terminal box positions	
	9 o'clock (standard)	3 o'clock
MTA 30	•	•
MTA 60	•	•
MTA 90	•	•
MTA 120	•	(•)
MTA 200	•	(•)
MTA 20H	•	•
MTA 40H	•	•
MTA 70H	•	•
MTA 100H	•	(•)

- The terminal box can be turned to another position after delivery.
- (•) The terminal box cannot be turned to another position after delivery. The pump must be ordered with the terminal box in position 3 o'clock.

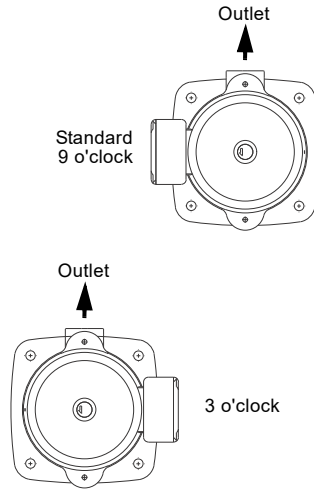


Fig. 7 Terminal box positions (top view)

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.

The electric motor should be connected to the supply as shown in the diagram inside the terminal box cover.

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7. Startup

The pump can be started against an open or a closed discharge 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 should rotate *counter-clockwise*.
2. Start the pump and check the direction of rotation.

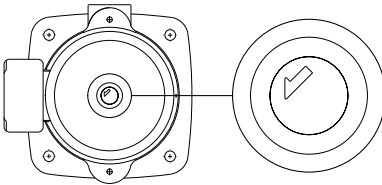


Fig. 8 Sight glass with indication of the correct direction of rotation

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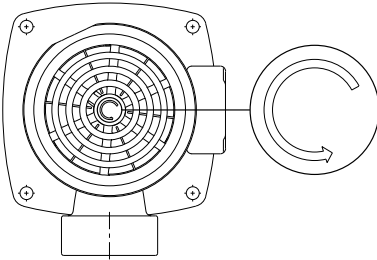


Fig. 9 Motor fan cover with indication of the correct direction of rotation

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8. Operation and maintenance

8.1 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.

8.2 Filters

Chip trays, filters, etc. should be cleaned at regular intervals to ensure a correct flow of liquid. This will also increase the pump life.

8.3 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 [10. Fault finding](#).

9. Service

Warning



If a pump has been used for pumping liquids which are injurious to human health or poisonous, it will be classified as contaminated.

A contaminated pump must not be sent to Grundfos for service until Grundfos has received all necessary details about the pumped liquid, etc. Otherwise Grundfos can refuse to accept the pump for service. Costs of returning the pump are to be paid by the customer.

10. Fault finding



Warning

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

Fault	Cause	Remedy
1. Motor does not run when power supply is switched on.	a) Supply failure.	Connect the power supply.
	b) Fuses are blown.	Replace fuses.
	c) Motor-protective circuit breaker has tripped out.	Reactivate the motor protection.
	d) Main contacts in motor-protective circuit breaker are not making contact or the coil is faulty.	Replace contacts or magnetic coil.
	e) Control circuit is defective.	Repair the control circuit.
	f) Motor is defective.	Replace the pump.
2. Motor-protective circuit breaker trips out immediately when power supply is switched on.	a) Fuse on one phase is blown.	Replace fuse.
	b) Contacts in motor-protective circuit breaker are faulty.	Replace contacts in motor-protective circuit breaker.
	c) Cable connection is loose or faulty.	Fasten or replace the cable connection.
	d) Motor winding is defective.	Replace the pump.
	e) Pump mechanically blocked.	Remove the mechanical blocking of the pump.
	f) Overload setting is too low.	Set the motor-protective circuit breaker correctly.
3. Motor-protective circuit breaker trips out occasionally.	a) Overload setting is too low.	Set the motor-protective circuit breaker correctly.
	b) Low voltage at peak times.	Check the power supply.
4. Motor-protective circuit breaker has not tripped out but the pump does not run.	a) Check 1 a), b), d) and e).	
5. Pump runs but gives no liquid or pump capacity is not constant.	a) Pump inlet partly blocked by impurities.	Clean the inlet.
	b) Liquid level in tank too low.	Increase the liquid level.
	c) Pump rotates in the wrong direction.	Change the direction of rotation of the motor by switching any two of the phases.

11. 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.



The crossed-out wheellie 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.

中国 RoHS

产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴联苯醚 (PBDE)
泵壳	X	0	0	0	0	0
紧固件	X	0	0	0	0	0
管件	X	0	0	0	0	0
定子	X	0	0	0	0	0
转子	X	0	0	0	0	0

本表格依据 SJ/T 11364 的规定编制

O: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。

X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 该规定的限量要求。



该产品环保使用期限为 10 年，标识如左图所示。

此环保期限只适用于产品在安装与使用说明书中所规定的条件下工作

Declaration of conformity

GB: EC/EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the product MTA, to which the declaration below relates, is in conformity with the Council Directives listed below on the approximation of the laws of the EC/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: EC/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 MTA 產品，符合下列近似 EC/EU 會員國法律之議會指令。

CN: 欧共体 / 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 MTA，即该合格证所指之产品，符合欧共体 / 欧盟使其成员国法律趋于一致的以下理事会指令。


KO: EC/EU 적합성 선언

Grundfos 는 아래의 선언과 관련된 MTA 제품이 EC/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 (97943796).

Bjerringbro, 5th of January 2021



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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.

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Bjerringbro, January 1, 2021



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97943796 03.2021

ECM: 1303297

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