MTH

Installation and operating instructions

GRUNDFOS

MTH

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Original installation and operating instructions

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1. General information

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 gray circle with a white graphical symbol indicates that an action must be taken.

A red or gray 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. Product introduction

2.1 Applications

Grundfos pumps, type MTH, are multistage centrifugal pumps designed for pumping liquids for machine tools, condensate transfer, liquid transfer in industrial washing machines and similar applications.

The pumps are designed for pumping liquids with a density and viscosity corresponding to those of water. The pumped liquid must not contain abrasive particles or fibres.

When pumping liquids with a density or viscosity higher than that of water, the motor size must be taken into consideration.

2.2 Identification

2.2.1 Type designation

The standard range consists of pumps with several impeller and chamber combinations. On request, other pump lengths can be supplied by fitting empty intermediate chambers in combination with standard impellers and chambers.

The type key on the pump nameplate indicates the number of chambers and impellers fitted to the pump.

2.2.2 Type key

Example: MTH2-6/3-A-W-A-A QQ V

Code	Explanation	Designation
MTH	Pump type	Pump type
2	Rated flow rate [m^3/h]	Rated flow rate
6	Number of chambers	Number of chambers
3	Number of impellers	Number of impellers
A	Basic version	Pump version
C	Inlet pipe	
X	Special version	
W	Internal thread	Pipe connection
WB	NPT internal thread	
A	Basic version	Materials
I	Stainless steel pump head	
A	O-ring seal with fixed seal driver	Shaft seal
B	Bellows seal, rubber	
C	O-ring seal with spring as seal driver	
R	O-ring seal, type A, with reduced seal faces	
A	Carbon, metal-impregnated	Seal face material
B	Carbon, resin-impregnated	
Q	Silicon carbide	
U	Tungsten carbide	
V	Metal oxides, ceramic	
E	EPDM	Secondary seal material (rubber parts)
V	FKM	

3. Installing the product

3.1 Mechanical installation

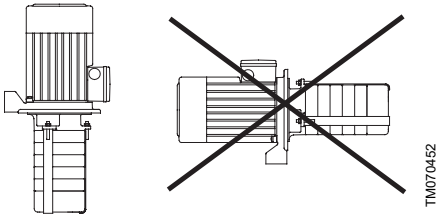
3.2 Tank mounting

CAUTION
Hot or cold surface
Minor or moderate personal injury

- Make sure that no one can accidentally come into contact with hot or cold surfaces.

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

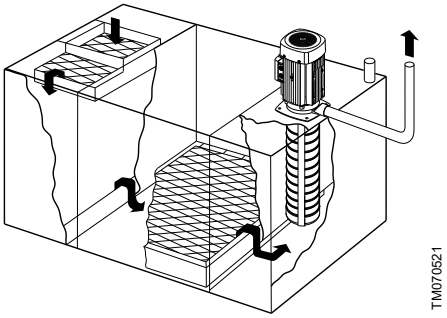
The MTH pumps must only be mounted vertically.



Pump mounting position

3.2.1 Filtration requirements

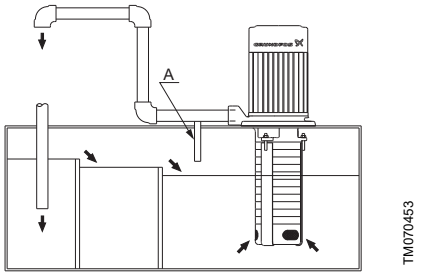
A filtration system must be installed in the tank system to avoid impurities in the liquid blocking the pump.



Example of a filtration system

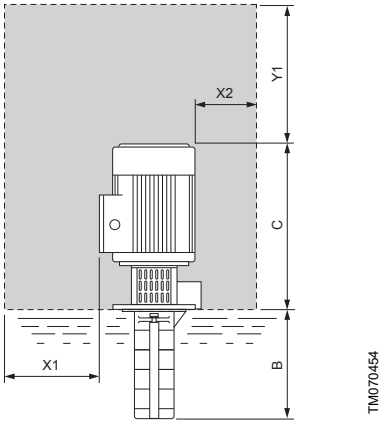
3.2.2 Bypass pipe

To reduce the risk of water hammer damaging the pump, we recommend that you install a bypass line.



Example of a bypass pipe (A)

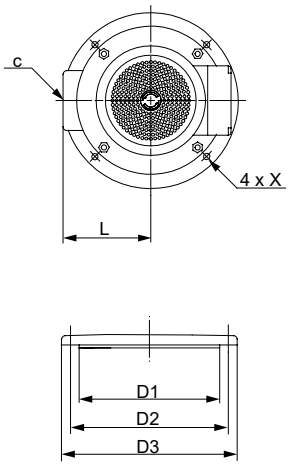
3.2.3 Installation dimensions



Installation dimensions

Measurement	Dimension
B	Depending on the pump type
C	Depending on the motor type
X1	200 mm
X2	150 mm
Y1	This measurement must be at least 30 mm longer than measurement B to allow sufficient space for removing the pump in case of service or maintenance.

Pump mounting flange dimensions



Dimensional sketch

Pump type	D1	D2	D3	L	C	X
MTH 2, 4, 8	140	160	180	121	Rp 3/4	∅7.5
MTH 10, 15	180	210	250	132	Rp/G 1 1/4	∅9

3.3 Inlet conditions

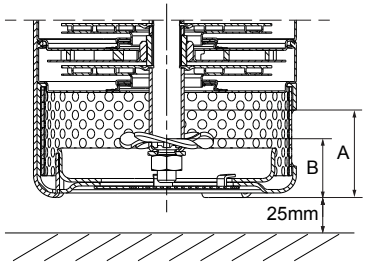
The bottom of the pump strainer must be at least 25 mm above the bottom of the tank. See fig. 'MTH 2, 4, 8' and 'MTH 10, 15'.

The MTH pumps must be installed vertically, and the drain hole in the motor stool must have access to the tank.

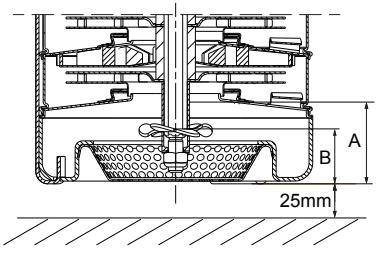
The pumps are designed to provide full performance down to a level of A mm above the bottom of the strainer.

At a liquid level between A and B mm above the bottom of the strainer, the built-in priming screw protects the pump against dry running.

Pump type	A [mm]	B [mm]
MTH 2, 4, 8	37	25
MTH 10, 15	40	28



MTH 2, 4, 8



MTH 10, 15

3.4 Electrical connection

WARNING
Electric shock
Death or serious personal injury

- Before starting any work on the product, make sure the power supply has been switched off and that it cannot be accidentally switched on. Connect the pump to an external main switch close to the pump and to a motor-protective circuit breaker or a CUE frequency converter.
- Make sure you can lock the main switch in OFF position (isolated). The type and requirements are as specified in the EN 60204-1, 5.3.2.

Operating voltage and operating frequency are stated on the motor nameplate. Confirm that the motor is suitable for the power supply available at the installation site.

The voltage quality for MG motors, measured at the motor terminals, must be ± 10 % of the rated voltage during continuous operation, including variation in the supply voltage and losses in cables.

The electrical installation must be carried out by authorised persons in accordance with local regulations.

The wiring diagram is located in the terminal box cover.

The terminal box of single-speed motors normally contains six winding terminals and at least one earth terminal.

Single-phase motor

Connect single-phase motors to the mains in accordance with the instructions located in the terminal box cover.

Three-phase motor

Three-phase motors can be connected in star (Y) or delta (D) according to the IEC 60034-8. See the wiring diagram in the terminal box cover.

Voltage and connection are stated on the nameplate.

Example: 220-240 V D / 380-415 V Y

- If the voltage supply is 220-240 V, the motor must be connected in delta.
- If the voltage supply is 380-415 V, the motor must be connected in star.

3.4.1 Torque for terminal box cover screws

Torque for MG 71 or 80: 1.8 - 2 Nm.

Torque for MG 90 to 112: 3-4 Nm.

Mounted exclusively with Zink-Nikkel-plated screws.

The maximum screwing speed should not be higher than 500 rpm.

3.4.2 Motor protection

Single-phase motors

Single-phase motors are supplied with built-in thermal protection, according to the IEC 60034-11, against thermal overload with both rapid and slow variation.

Three-phase motors

Three-phase motors must be protected by a motor-protective circuit breaker according to local regulations.

MG motors of 3.0 kW or up are supplied with thermal switches (PTC) as standard and are protected against thermal overload with both rapid and slow variation. The motor protection is stated on the nameplate.

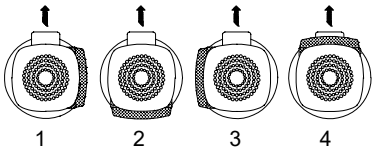
3.4.3 Terminal box positions

The terminal box can be turned to three positions, in 90° steps, see figure Terminal box positions, top view.

To change the position of the terminal box, complete the following steps:

1. Remove the four bolts securing the motor to the motor stool.
2. Turn the motor to the required position.
3. Replace and tighten the four bolts.

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



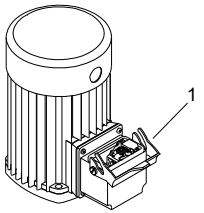
Terminal box positions, top view

Pos.	Description
1	Position 3 o'clock
2	Position 6 o'clock
3	Position 9 o'clock
4	Position 12 o'clock

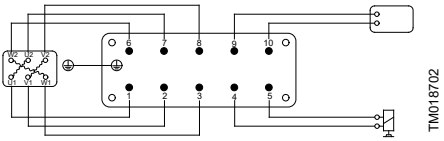
3.4.4 Plug connections

The pumps can be fitted with a 10-pin multiplug connection, type Han® 10 ES.

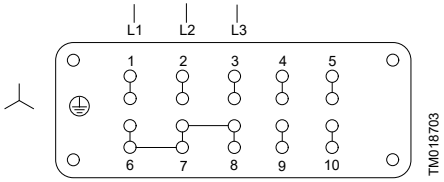
The purpose of a multiplug connection is to make the electrical installation and the service of the pump easier.



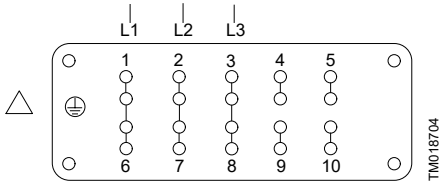
Multiplug connection on a Grundfos motor



Connections between motor terminals and plug terminals



Plug connections for star connection



Plug connections for delta connection

Fishplates for connections are located in the plug.

3.4.5 Frequency converter operation

Motors supplied by Grundfos

All three-phase motors supplied by Grundfos can be connected to a frequency converter.

Depending on the frequency converter type, this may cause increased acoustic noise from the motor. Furthermore, it may expose the motor to detrimental voltage peaks.

! Grundfos motors, types MG 71 and MG 80, as well as MG 90 (1.5 kW, 2-pole), for supply voltages up to and including 440 V (see motor nameplate), must be protected against voltage peaks higher than 650 V (peak value) between the supply terminals.

We recommend protecting all other motors against voltage peaks higher than 850 V.

Both increased acoustic noise and detrimental voltage peaks can be eliminated by fitting an LC filter between the frequency converter and the motor.

For further information, contact the frequency converter supplier or Grundfos.

4. Starting up the product

Before starting the pump, ensure the following:

- all pipe connections are tight
- the pump body is partly filled with liquid (partly submerged)
- the strainer is not blocked by impurities.

Start the pump as follows:

1. Close the isolating valve on the outlet side of the pump.
2. See the correct direction of rotation of the pump on the motor fan cover. When seen from the top, the pump must rotate counterclockwise.
3. Start the pump and check the direction of rotation.
4. Slowly open the outlet valve until it is completely open.

The pump at this point is vented and ready for operation.

4.1 Operating the product

CAUTION
Fire and explosion
Minor or moderate personal injury

- Do not use the pump for flammable, combustible or explosive liquids.

CAUTION
Hot liquid
Minor or moderate personal injury

- Do not run the pump against a closed valve for more than approximately 5 minutes.

The pump must not run against a closed outlet valve for more than approximately 5 minutes as that causes increase in temperature and formation of steam in the pump that may damage the pump.

5. Servicing the product

WARNING
Electric shock
Death or serious personal injury

- Before starting any work on the product, make sure the power supply is switched off and that it cannot be accidentally switched on.
- Connect the pump to an external main switch close to the pump and to a motor-protective circuit breaker or a CUE frequency converter.
- Make sure you can lock the main switch in OFF position (isolated). The type and requirements are as specified in the EN 60204-1, 5.3.2.

CAUTION
Toxic liquids
Death or serious personal injury

- Wear personal protective equipment.

CAUTION
Hot or cold liquid
Minor or moderate personal injury

- Wear personal protective equipment.

CAUTION
Hot or cold surface
Minor or moderate personal injury

- Make sure that no one can accidentally come into contact with hot or cold surfaces.

5.1 Contaminated products

The product is classified as contaminated if it has been used for a liquid injurious to health or toxic.

If you want to request service, contact Grundfos with details about the pumped liquid before returning the product. Otherwise, Grundfos can refuse to accept the product for service.

Clean the product in the best possible way before you return it.

5.2 Maintaining the product

Pumps installed in accordance with the relevant instructions require little maintenance.

Shaft seal

The mechanical shaft seal is self-adjusting and has wear-resistant seal rings that are lubricated and cooled by the pumped liquid.

Pump bearings

The pump bearings are also lubricated by the pumped liquid.

Motor bearings

The motor ball bearings are grease-packed and sealed for life. No further lubrication is necessary.

Pumps from 4 kW and up have angular contact bearings.

5.3 Filters

Clean chip trays, filters, and so on, at regular intervals to ensure a correct flow of liquid.

5.4 Periodic checks

At regular intervals, depending on the conditions and time of operation, the following inspections must be completed:

- Check the quantity of liquid and operating pressure.
- Make sure there are no leaks.
- Check if the motor is not overheating.
- Check the tripping of the motor-protective circuit breaker.
- Confirm that all controls are operating satisfactorily.

If the above inspections do not reveal any abnormal operating details, no further checks are necessary.

Should any faults be found, consult the section on fault finding the product.

Related information

6. Fault finding the product

6. Fault finding the product

WARNING
Electric shock
Death or serious personal injury

- Before starting any work on the product, make sure the power supply has been switched off and that it cannot be accidentally switched on.
- Connect the pump to an external main switch close to the pump and to a motor-protective circuit breaker or a CUE frequency converter.
- Make sure you can lock the main switch in OFF position (isolated). The type and requirements are as specified in the EN 60204-1, 5.3.2.

CAUTION
Toxic liquids
Death or serious personal injury

- Wear personal protective equipment.

CAUTION
Hot or cold liquid
Minor or moderate personal injury

- Wear personal protective equipment.

CAUTION
Hot or cold surface
Minor or moderate personal injury

- Make sure that no one can accidentally come into contact with hot or cold surfaces.

6.1 The motor does not run when started.

Cause	Remedy
There is a supply failure.	Connect the electricity supply.
The fuses are blown.	Replace the fuses.
The motor-protective circuit breaker overload has tripped.	Reactivate the motor-protective circuit breaker.
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.
The control circuit is defective.	Repair the control circuit.
The motor is defective.	Replace the pump.

6.2 The motor-protective circuit breaker overload trips immediately when the supply is switched on.

Cause	Remedy
One fuse is blown or the motor-protective circuit breaker has tripped.	Replace the fuse or reactivate the motor-protective circuit breaker.
The contacts in the motor-protective circuit breaker overload are faulty.	Replace the motor-protective circuit breaker contacts.
The cable connection is loose or faulty.	Fasten or replace the cable connection.
The motor winding is defective.	Replace the pump.
The pump is mechanically blocked.	Remove the mechanical blocking of the pump.
The overload setting of the motor-protective circuit breaker is too low.	Set the motor-protective circuit breaker correctly.

6.3 The motor-protective circuit breaker overload trips occasionally.

Cause	Remedy
The overload setting of the motor-protective circuit breaker is too low.	Set the motor-protective circuit breaker correctly.
The voltage is low at peak times.	Check the electricity supply.

6.4 The motor-protective circuit breaker has not tripped but the pump does not run.

Cause	Remedy
There is a supply failure.	Connect the electricity supply.
The fuses are blown.	Replace the fuses.
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.
The control circuit is defective.	Repair the control circuit.

6.5 The pump runs but gives no liquid or the pump capacity is not constant.

Cause	Remedy
The pump strainer is partly blocked by impurities.	Clean the strainer.
The liquid level in the tank is too low.	Increase the liquid level.
The pump rotates in the wrong direction.	Change the direction of rotation of the motor.

7. Technical data

7.1 Operating conditions

Pump type	MTH
Minimum liquid temperature [°C]	-10
Maximum liquid temperature [°C]	+90
Maximum ambient temperature [°C]	
0.37 - 0.55 kW	+40
0.75 - 2.2 kW	+60
Maximum operating pressure [bar]	10
Enclosure class	IP54

7.1.1 Min. flow rate

Pump type	Minimum flow rate [l/min]	
	At a liquid temperature of 80 °C	At a liquid temperature between 80 and 90 °C
MTH 2, 4	3	8
MTH 8	13	33
MTH 10, 15	20	50

7.1.2 Maximum number of starts

Maximum number of starts per hour: 100.

7.2 Sound pressure level

The sound pressure level of the pumps is lower than 70 dB(A).

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*.

1. 中国 RoHS

产品中有害物质的名称及含有信息表

部件名称	有害物质									
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBBs)	多溴二苯醚 (PBDEs)	邻苯二甲酸二正丁酯（DBP）	邻苯二甲酸二异丁酯 (DIBP)	邻苯二甲酸丁基苄酯（BBP）	邻苯二甲酸二（2-乙基）己酯（DEHP）
泵壳	X	O	O	O	O	O	O	O	O	O
紧固件	X	O	O	O	O	O	O	O	O	O
管件	X	O	O	O	O	O	O	O	O	O
定子	X	O	O	O	O	O	O	O	O	O
转子	X	O	O	O	O	O	O	O	O	O

注 1： O：表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。
X：表示该有害物质至少在该部件的某一均质材料中含量超出电器电子产品有害物质限制使用国家标准要求。
注 2：以上未列出的部件，表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求。

TM090584

EU declaration of conformity

GB: EU declaration of conformity

For products with CE marking on the nameplate.

We, Grundfos, declare under our sole responsibility that products (1) declared below are in conformity with the relevant union harmonisation legislation (2), harmonised standards or other technical specifications (3).

This declaration of conformity refers to the Grundfos document: 98476088, 96440790, 96496967, 98189180, 93225743, 93544337

CN:欧盟符合性声明

对于铭牌上带有 CE 标识的产品。

格兰富公司郑重宣布，以下声明的产品 (1) 符合欧盟统一的立法 (2)、协调标准或其他技术规格 (3)。

本符合性声明是指格兰富文档： 98476088, 96440790, 96496967, 98189180, 93225743, 93544337

TW：EU 合格聲明

針對在銘牌上有 CE 標示的產品。

葛蘭富根據我們唯一的責任，茲聲明與以下聲明相關之產品 (1) 符合相關的工會協調立法；(2) 協調標準；或 (3) 其他技術規範。

本合格聲明參考葛蘭富文件： 98476088, 96440790, 96496967, 98189180, 93225743, 93544337

JP:EU 適合宣言

銘板に CE マークが付いている製品用です。

グルンドフォスは、以下に宣言する製品(1)が、関連する組合整合法(2)、整合規格またはその他の技術仕様(3)に適合していることを唯一の責任において宣言します。

この適合宣言は、グルンドフォスの文書「に減給しています。98476088, 96440790, 96496967, 98189180, 93225743, 93544337

KO: EU 적합성 선언

명판에 CE 마크가 있는 제품의 경우.

Grundfos는 아래의 선언과 관련된 (1) 제품이 관련 Union 조화 규정(2), 조화 표준 및 기타 기술 규격(3)을 준수함을 단독 책임 하에 선언합니다.

이 적합성 선언은 다음의 Grundfos 문서를 참조합니다: 98476088, 96440790, 96496967, 98189180, 93225743, 93544337

Grundfos Holding A/S
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8850 Bjerringbro, Denmark
www.grundfos.com

MTR, SPK, MTH, MTC, MTS (1)

Union harmonisation legislation (2)

Harmonised standards or other technical specifications (3)

- **Machinery Directive (2006/42/EC)**
  Standards used: EN 809:1998+A1:2009/AC:2010
- **EcoDesign Directive 2009/125/EC**
  (EU) No 547/2012
  Standard used: EN 16480:2021
- **RoHS Directives: (2011/65/EU and 2015/863/EU)**
  Standard used: EN IEC 63000:2018

Bjerringbro, 5 January 2025

Jimm Feldborg
Head of PD IND

10000418656

UK declaration of conformity

UK declaration of conformity

We, Grundfos, declare under our sole responsibility that the products to which the declaration below relates, are in conformity with UK regulations, standards and specifications to which conformity is declared, as listed below:

Valid for Grundfos products:

MTR, SPK, MTH, MTC, MTS

- Supply of Machinery (Safety) Regulations 2008

  Standards used: EN 809:1998, A1:2009.
- The Ecodesign for Energy-Related Products and Energy Information Regulations 2021 and 2019
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2019

  Standards used: EN IEC 63000:2018

This UK declaration of conformity is only valid when accompanying Grundfos instructions.

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Bjerringbro, 1 January 2022

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10000418662

RUS

MTH

Руководство по эксплуатации

Руководство по эксплуатации на данное изделие является составным и включает в себя несколько частей:
Часть 1: настоящее «Руководство по эксплуатации».
Часть 2: электронная часть «Паспорт. Руководство по монтажу и эксплуатации» размещенная на сайте компании Грундфос. Перейдите по ссылке, указанной в конце документа.
Часть 3: информация о сроке изготовления, размещенная на фирменной табличке изделия.

Сведения о сертификации:

Насосы типа MTH сертифицированы на соответствие требованиям Технических регламентов Таможенного союза: ТР ТС 004/2011 «О безопасности низковольтного оборудования»; ТР ТС 010/2011 «О безопасности машин и оборудования»; ТР ТС 020/2011 «Электромагнитная совместимость технических средств».

KAZ

MTH

Пайдалану бойынша нұсқаулық

Атаулы өнімге арналған пайдалану бойынша нұсқаулық құрамалы болып келеді және келесі бөлімдерден тұрады:
1 бөлім: атаулы «Пайдалану бойынша нұсқаулық»
2 бөлім: Грундфос компаниясының сайтында орналасқан электронды бөлім «Төлқұжат, Құрастыру және пайдалану бойынша нұсқаулық». Құжат соңында көрсетілген сілтеме арқылы өтіңіз.
3 бөлім: өнімнің фирмалық тақташасында орналасқан шығарылған уақыты жөніндегі мәлімет

Сертификаттау туралы ақпарат:

MTH типті сорғылары «Төмен вольты жабдықтардың қауіпсіздігі туралы» (ТР ТС 004/2011), «Машиналар және жабдықтар қауіпсіздігі туралы» (ТР ТС 010/2011) «Техникалық заттардың электрлі магниттік сәйкестілігі» (ТР ТС 020/2011) Кеден Одағының техникалық регламенттерінің талаптарына сәйкес сертификатталды.

KG

MTH

Пайдалануу боюнча колдонмо

Аталган жабдууну пайдалануу боюнча колдонмо курамдык жана өзүнө бир нече бөлүкчөнү камтыйт:
1-Бөлүк: «Пайдалануу боюнча колдонмо»
2-Бөлүк: «Паспорт. Пайдалануу жана монтаж боюнча колдонмо» электрондук бөлүгү Грундфос компаниянын сайтында жайгашкан. Документтин аягында көрсөтүлгөн шилтемеге кайрылыңыз.
3-Бөлүк: жабдуунун фирмалык тактасында жайгашкан даярдоо мөөнөтү тууралуу маалымат.

Шайкештик жөнүндө декларация

MTH түрүндөгү соргучтар Бажы Биримдиктин Техникалык регламенттин талаптарына ылайыктуу тастыкталган: ТР ТБ 004/2011 «Төмөн вольттук жабдуунун коопсуздугу жөнүндө»; ТР ТБ 010/2011 «Жабдуу жана машиналардын коопсуздугу жөнүндө»; ТР ТБ 020/2011 «Техникалык каражаттардын электрмагниттик шайкештиги».

ARM

MTH

Շահագործման ձեռնարկ
Տվյալ սարքավորման շահագործման ձեռնարկը բաղկացած է մի քանի մասերից.
Մաս 1. սույն «Շահագործման ձեռնարկ»:
Մաս 2. Էլեկտրոնային մաս. այն է՝ «Անձնագիր: Մոնտաժման և
շահագործման ձեռնարկ» տեղադրված «Գրունդֆոս». Անցեք փաստաթղթի վերջում նշված հղումով.
Մաս 3. տեղեկություն արտադրման ամսաթվի վերաբերյալ՝ նշված սարքավորման պիտակի վրա:

Տեղեկություններ հավաստագրման մասին՝
MTH տիպի պոմպերը սերտիֆիկացված են համաձայն Մաքսային Միության տեխնիկական կանոնակարգի պահանջների՝ TP TC 004/2011 «Ցածրավոլտ սարքավորումների վերաբերյալ», TP TC 010/2011«Մեքենաների և սարքավորումների անվտանգության վերաբերյալ» ; TP TC 020/2011 «Տեխնիկական միջոցների էլեկտրամագնիսական համատեղելիության վերաբերյալ»:

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