DMH 28X

Safety instructions and other important information

Installation and operating instructions

http://net.grundfos.com/qr/i/96771794

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English (GB) Safety instructions

Original safety instructions

These safety instructions give a quick overview of the safety precautions to be taken in connection with any work on this product.

Observe these safety instructions during handling, installation, operation, maintenance, service and repair of this product.

These safety instructions is a supplementary document, and all safety instructions will appear again in the relevant sections of the installation and operating instructions.

Keep these safety instructions at the installation site for future reference.

General information

Warning

To operate a pump which has been identified as an explosion-proof pump for the dosing of inflammable media or for operation in potentially explosive operating sites in accordance with the EC directive 2014/34/EU, refer to the enclosed manual "ATEX-approved pumps" in addition to this manual.

Warning

Other applications or the operation of pumps in ambient and operating conditions, which are not approved, are considered improper and are not permitted. Grundfos accepts no liability for any damage resulting from incorrect use.

Caution

In the event of questions regarding the material resistance and suitability of the pump for specific dosing media, please contact Grundfos.

Safety

Warning

Electrical connections must only be carried out by qualified personnel!

Warning

The pump housing, control unit and sensors must only be opened by personnel authorised by Grundfos!

Technical data

Caution

The installation site must be under cover!

Do not install outdoors!

Warning

Observe the chemical manufacturer's safety instructions when handling chemicals!

Caution

The dosing medium must be in liquid form!

Observe the freezing and boiling points of the dosing medium!

The resistance of the parts that come into contact with the media depends on the media, media temperature and operating pressure. Ensure that parts in contact with the media are chemically resistant to the dosing medium under operating conditions!

Make sure that the pump is suitable for the actual dosing medium!

Transport and storage

Caution

Do not throw or drop the pump.

Do not use the protective packaging as transport packaging.

Observe the permissible storage temperature!

Caution

Grundfos accepts no liability for damage caused by incorrect transportation, missing or unsuitable packaging of the pump, residual media or leaking oil!

Caution

If a pump has been used for a medium which is injurious to health or toxic, the pump will be classified as contaminated.

Caution

The replacement of the power supply cable must be carried out by an authorised Grundfos service workshop.

Installation

Warning

Observe the specifications for the installation location and range of applications described in section *Technical data*.

Warning

Faults, incorrect operation or faults on the pump or system can, for example, lead to excessive or insufficient dosing, or the permissible pressure may be exceeded. Consequential faults or damage must be evaluated by the operator and appropriate precautions must be taken to avoid them!

Warning

Risk of hot surfaces!

Pumps with AC motors may become hot.

Allow a minimum space of 100 mm to the fan cover!

Caution

Risk of damage to the system!

It is always recommended to use pulsation dampers for large high-speed pumps!

Since the pulsation is influenced by many factors, a system-specific calculation is essential. Request a calculation from our calculation program.

Warning

To protect the dosing system against excessive pressure build-up, install a relief valve in the discharge line.

Only use the prescribed line types!

All lines must be free from strain!

Avoid loops and buckles in the tubes!

Keep the suction line as short as possible to avoid cavitation!

If necessary, use swept bends instead of elbows.

Observe the chemical manufacturer's safety instructions when handling chemicals!

Make sure that the pump is suitable for the actual dosing medium!

The flow must run in the opposite direction to gravity!

Warning

Risk of injuries caused by the dosing medium. Dosing medium leaks from the hose nipple (I) of the deaeration line. If the pressure is high, the medium may squirt out. Turn the hose nipple (I) in the right direction, or drain the dosing medium through a suitable hose. Observe chemical resistance!

Electrical connections

Warning

Electrical connections must only be carried out by qualified personnel!

Disconnect the power supply before connecting the power supply cable and the relay contacts!

Observe the local safety regulations!

The pump housing must only be opened by personnel authorised by Grundfos!

Protect the cable connections and plugs against corrosion and humidity.

Only remove the protective caps from the sockets that are being used.

Warning

Explosion-proof pumps with diaphragm leakage detection are fitted with a contact pressure gauge in explosion-proof version.

The pressure gauge must be earthed.

Connecting the earth cable (4u).

Warning

Disconnect the power supply before connecting the power supply cable!

Before connecting the power supply cable, check that the rated voltage stated on the pump nameplate corresponds to the local conditions!

Do not make any changes to the power supply cable or plug!

Caution

The assignment between the plug-and-socket connection and the pump must be labelled clearly (e.g. by labelling the socket outlet).

Caution

The pump can be automatically started by connecting the power supply!

Warning

The pump must be connected to an external clearly labelled mains switch with a minimum contact gap of 3 mm in all poles.

Warning

The specified enclosure class can only be ensured if the power supply cable is connected with the same degree of protection.

Observe the direction of rotation!

Caution

To protect the motor, install a motor protecting switch or motor contactor, and set the bimetal relay to the rated motor current for the available voltage and frequency.

Start-up / shutdown

Warning

When dosing dangerous media, observe the corresponding safety precautions!

Risk of injuries caused by the dosing medium. Dosing medium leaks from the hose nipple (I) of the deaeration line. If the pressure is high, the medium may squirt out. Turn the hose nipple (I) in the right direction, or drain the dosing medium through a suitable hose.

Wear protective clothing (gloves and goggles) when working on the dosing head, connections or lines!

Before removing the dosing head, valves and lines, empty any remaining medium in the dosing head into a drip tray by carefully unscrewing the suction valve.

The pump housing must only be opened by personnel authorised by Grundfos!

Repairs must only be carried out by authorised and qualified personnel!

Caution

Observe the flow direction of valves (indicated by an arrow on the valve)!

Caution

After initial start-up and after each time the diaphragm is changed, tighten the dosing head screws.

After approximately 6-10 operating hours or two days, cross-tighten the dosing head screws using a torque wrench.

Caution

Do not turn the inner slotted screw (adjusting screw (1e)), as this changes the degassing valve setting.

Warning

Wear protective clothing (gloves and goggles) when working on the dosing head, connections or lines!

Do not allow any chemicals to leak from the pump. Collect and dispose of all chemicals correctly!

Operation

Caution

Before switching on the pump, check that it is installed correctly. See sections *Installation* and *Start-up / shutdown*.

Caution

The pump cannot be operated if the stroke-length adjustment knob is fully open! Depending on the pump adjustment, this value may already be lower than 100 % on the scale for system pressures higher than 100 bar.

Open the stroke-length adjustment knob completely and then close by approx. 10 % in order to set the dosing flow to 100 %.

Warning

When dosing dangerous media, observe the corresponding safety precautions!

Wear protective clothing (gloves and goggles) when working on the dosing head, connections or lines!

Warning

Risk of injuries caused by the dosing medium. Dosing medium leaks from the hose nipple (I) of the deaeration line. If the pressure is high, the medium may squirt out. Turn the hose nipple (I) in the right direction, or drain the dosing medium through a suitable hose.

Maintenance

Warning

When dosing dangerous media, observe the corresponding safety precautions!

Wear protective clothing (gloves and goggles) when working on the dosing head, connections or lines!

The pump housing must only be opened by personnel authorised by Grundfos!

Repairs must only be carried out by authorised and qualified personnel!

Switch off the pump and disconnect it from the power supply before carrying out maintenance work and repairs!

Before removing the dosing head, valves and lines, empty any remaining medium in the dosing head into a drip tray by carefully unscrewing the suction valve.

Caution Observe the flow direction of valves (indicated by an arrow on the valve)!

Caution After a diaphragm breakage, replace the diaphragms and clean the non-return valve, see section *Replacing the diaphragm for dosing head with double diaphragm*.

Caution Check the oil level at least every two weeks and add oil, if necessary.

Caution The O-rings must be correctly placed in the specified groove.

Warning

The dosing diaphragm should be replaced with each gear oil change.

Caution Risk of leaking oil and damage caused by oil loss!

For each oil change, a new flat gasket (1b) must be fitted!

Caution After initial start-up and after each time the diaphragm is changed, tighten the dosing head screws.

After approximately 6-10 operating hours or two days, cross-tighten the dosing head screws using a torque wrench.

Caution Observe correct installation of diaphragms (Q1 and Q2)!

Fit the thinner diaphragm (Q1) on the dosing side and the thicker diaphragm (Q2) on the oil side/pump side!

Caution The paraffin oil between the diaphragms (Q) is connected via the clamping sleeves (6q) to the contact pressure gauge (S) in order to fill and activate the diaphragm leakage detection. The oil is able to pass between the diaphragms through the slits in the clamping sleeves and the slits in the intermediate disk.

The clamping sleeves (6q) must therefore be installed in such a way that the slits in the clamping sleeve face the slits in the intermediate disk (3q).

Caution After a diaphragm has broken, the ball non-return valve must be cleaned before the diaphragm is filled with separating agent. Only clean the ball non-return valve after a diaphragm breakage!

Caution Tighten the ball non-return valve and connection piece by hand only.

Fault finding chart

Warning

Actions that are taken to correct faults on the pump and that are not described in this manual, must only be carried out by personnel authorised by Grundfos!

GB: EC/EU declaration of conformity

We, Grundfos, declare under our sole responsibility that the product DMH 28X, 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.

BG: Декларация за съответствие на ЕС/ЕО

Ние, фирма Grundfos, заявяваме с пълна отговорност, че продуктът DMH 28X, за който се отнася настоящата декларация, отговаря на следните директиви на Съвета за уеднаквяване на правните разпоредби на държавите-членки на ЕС/ЕО.

CZ: Prohlášení o shodě EU

My firma Grundfos prohlašujeme na svou plnou odpovědnost, že výrobek DMH 28X, na který se toto prohlášení vztahuje, je v souladu s níže uvedenými ustanoveními směrnice Rady pro sblížení právních předpisů členských států Evropského společenství.

DE: EG-/EU-Konformitätserklärung

Wir, Grundfos, erklären in alleiniger Verantwortung, dass das Produkt DMH 28X, auf das sich diese Erklärung bezieht, mit den folgenden Richtlinien des Rates zur Angleichung der Rechtsvorschriften der EG-/EU-Mitgliedsstaaten übereinstimmt.

DK: EF/EU-overensstemmelseserklæring

Vi, Grundfos, erklærer under ansvar at produktet DMH 28X som erklæringen nedenfor omhandler, er i overensstemmelse med Rådets direktiver der er nævnt nedenfor, om indbyrdes tilnærmelse til EF/EU-medlemsstaternes lovgivning.

EE: EÜ / ELi vastavusdeklaratsioon

Meie, Grundfos, kinnitame ja kanname ainuisikulist vastutust selle eest, et toode DMH 28X, mille kohta all olev deklaratsioon käib, on kooskõlas Nõukogu Direktiividega, mis on nimetatud all pool vastavalt vastuvõetud õigusaktidele ühtlustamise kohta EÜ / EL liikmesriikides.

ES: Declaración de conformidad de la CE/UE

Grundfos declara, bajo su exclusiva responsabilidad, que el producto DMH 28X al que hace referencia la siguiente declaración cumple lo establecido por las siguientes Directivas del Consejo sobre la aproximación de las legislaciones de los Estados miembros de la CE/UE.

FI: EY/EU-vaatimustenmukaisuusvakuutus

Grundfos vakuuttaa omalla vastuullaan, että tuote DMH 28X, jota tämä vakuutus koskee, on EY/EU:n jäsenvaltioiden lainsäädännön lähentämiseen tähtäävien Euroopan neuvoston direktiivien vaatimusten mukainen seuraavasti.

FR: Déclaration de conformité CE/UE

Nous, Grundfos, déclarons sous notre seule responsabilité, que le produit DMH 28X, auquel se réfère cette déclaration, est conforme aux Directives du Conseil concernant le rapprochement des législations des États membres CE/UE relatives aux normes énoncées ci-dessous.

GR: Δήλωση συμμόρφωσης ΕΚ/ΕΕ

Εμείς, η Grundfos, δηλώνουμε με αποκλειστικά δική μας ευθύνη ότι το προϊόν DMH 28X, στο οποίο αναφέρεται η παρακάτω δήλωση, συμμορφώνεται με τις παρακάτω Οδηγίες του Συμβουλίου περί προσέγγισης των νομοθεσιών των κρατών μελών της ΕΚ/ΕΕ.

HR: EC/EU deklaracija sukladnosti

Mi, Grundfos, izjavljujemo s punom odgovornošću da je proizvod DMH 28X, na koja se izjava odnosi u nastavku, u skladu s direktivama Vijeća dolje navedenih o usklađivanju zakona država članica EZ-a / EU-a.

HU: EC/EU megfelelőségi nyilatkozat

Mi, a Grundfos vállalat, teljes felelősséggel kijelentjük, hogy a(z) DMH 28X termék, amelyre az alábbi nyilatkozat vonatkozik, megfelel az Európai Közösség/Európai Unió tagállamainak jogi irányelveit összehangoló tanács alábbi előírásainak.

IT: Dichiarazione di conformità CE/UE

Grundfos dichiara sotto la sua esclusiva responsabilità che il prodotto DMH 28X, al quale si riferisce questa dichiarazione, è conforme alle seguenti direttive del Consiglio riguardanti il riavvicinamento delle legislazioni degli Stati membri CE/UE.

LT: EB/ES atitikties deklaracija

Mes, Grundfos, su visa atsakomybe pareiškiame, kad produktas DMH 28X, kuriam skirta ši deklaracija, atitinka žemiau nurodytas Tarybos Direktyvas dėl EB/ES šalių narių įstatymų suderinimo.

LV: EK/ES atbilstības deklarācija

Sabiedrība Grundfos ar pilnu atbildību paziņo, ka produkts DMH 28X, uz kuru attiecas tālāk redzamā deklarācija, atbilst tālāk norādītajām Padomes direktīvām par EK/ES dalībvalstu normatīvo aktu tuvināšanu.

NL: EG/EU-conformiteitsverklaring

Wij, Grundfos, verklaren geheel onder eigen verantwoordelijkheid dat product DMH 28X, waarop de onderstaande verklaring betrekking heeft, in overeenstemming is met de onderstaande Richtlijnen van de Raad inzake de onderlinge aanpassing van de wetgeving van de EG-/EU-lidstaten.

PL: Deklaracja zgodności WE/UE

My, Grundfos, oświadczamy z pełną odpowiedzialnością, że nasz produkt DMH 28X, którego deklaracja niniejsza dotyczy, jest zgodny z następującymi dyrektywami Rady w sprawie zbliżenia przepisów prawnych państw członkowskich.

PT: Declaração de conformidade CE/UE

A Grundfos declara sob sua única responsabilidade que o produto DMH 28X, ao qual diz respeito a declaração abaixo, está em conformidade com as Directivas do Conselho sobre a aproximação das legislações dos Estados Membros da CE/UE.

RO: Declaraţia de conformitate CE/UE

Noi Grundfos declarăm pe propria răspundere că produsul DMH 28X, la care se referă această declaraţie, este în conformitate cu Directivele de Consiliu specificate mai jos privind armonizarea legilor statelor membre CE/UE.

RS: Deklaracija o usklađenosti EC/EU

Mi, kompanija Grundfos, izjavljujemo pod punom vlastitom odgovornošću da je proizvod DMH 28X, na koji se odnosi deklaracija ispod, u skladu sa dole prikazanim direktivama Saveta za usklađivanje zakona država članica EC/EU.

SE: EG/EU-försäkran om överensstämmelse

Vi, Grundfos, försäkrar under ansvar att produkten DMH 28X, som omfattas av nedanstående försäkran, är i överensstämmelse med de rådsdirektiv om inbördes närmande till EG/EU-medlemsstaternas lagstiftning som listas nedan.

SI: Izjava o skladnosti ES/EU

V Grundfosu s polno odgovornostjo izjavljamo, da je izdelek DMH 28X,na katerega se spodnja izjava nanaša, v skladu s spodnjimi direktivami Sveta o približevanju zakonodaje za izenačevanje pravnih predpisov držav članic ES/EU.

SK: Prehlásenie o zhode s EC/EU

My, spoločnosť Grundfos, vyhlasujeme na svoju plnú zodpovednosť, že produkt DMH 28X, na ktorý sa vyhlásenie uvedené nižšie vzťahuje, je v súlade s ustanoveniami nižšie uvedených smerníc Rady pre zblíženie právnych predpisov členských štátov Európskeho spoločenstva/EÚ.

TR: EC/AB uygunluk bildirgesi

Grundfos olarak, aşağıdaki bildirim konusu olan DMH 28X ürünlerinin, EC/AB üye ülkelerinin direktiflerinin yakınlaştırılmasıyla ilgili durumun aşağıdaki Konsey Direktifleriyle uyumlu olduğunu ve bununla ilgili olarak tüm sorumluluğun bize ait olduğunu beyan ederiz.

UA: Декларація відповідності директивам EC/EU

Ми, компанія Grundfos, під нашу одноосібну відповідальність заявляємо, що виріб DMH 28X, до якого відноситься нижченаведена декларація, відповідає директивам EC/EU, переліченим нижче, щодо тотожності законів країн-членів ЄС.

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 DMH 28X，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。

NO: EC/EUs samsvarsærklæring

Vi, Grundfos, erklærer under vårt eneansvar at produktet DMH 28X, som denne erklæringen gjelder, er i samsvar med Det europeiske råds direktiver om tilnærming av forordninger i EC/EU-landene.

These Directives and standards apply from 20th April 2016 and onwards:

— Machinery Directive (2006/42/EC).
  Standards used:
  EN 809:2012, DIN EN ISO 12100:2010.
— Low Voltage Directive (2014/35/EU).
  Standard used:
  EN 61010-1:2011-07.
— EMC Directive (2014/30/EU).*
— RoHS Directives (2011/65/EU and 2015/863/EU).
  Standard used: EN 50581:2012
  * Only for products with control variant AR or AT.

This EC/EU declaration of conformity is only valid when published as part of the Grundfos instructions.

Pfinztal, 1st March 2018

Ulrich Stemick
Technical Director
Grundfos Water Treatment GmbH
Reetzstr. 85, D-76327 Pfinztal, Germany

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

RUS

DMH 28X

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 DMH 28X 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

DMH 28X

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:

DMH 28X типті сорғылары «Төмен вольтты 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

DMH 28X

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

DMH 28X 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

DMH 28X

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՝
DMH 28X տիպի պոմպերը սերտիֆիկացված են համաձայն Մաքսային Միության տեխնիկական կանոնակարգի պահանջների՝ ТР ТС 004/2011 «Ցածրավոլտ սարքավորումների վերաբերյալ», ТР ТС 010/2011«Մեքենաների և սարքավորումների անվտանգության վերաբերյալ» ; ТР ТС 020/2011 «Տեխնիկական միջոցների էլեկտրամագնիսական համատեղելիության վերաբերյալ»:

http://net.grundfos.com/qr/i/98741605

10000113841	1016
ECM: 1194357	

产品中有害物质的名称及含量 (Names and Contents of the Hazardous Substances)

部件名称 (Part name)	有害物质（Hazardous Substances ）					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴联苯醚 (PBDE)
齿轮箱，外壳，电机法兰 (Gear Box, enclosure, motor flange)	X	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制 (This Table is prepared in accordance with the provisions of SJ/T 11364)

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。(Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.)

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。(Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.)

该产品环保使用期限为 10 年，标识如左图所示。
(The environmental protection use period for this product is 10 years as shown in the left image)
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
(This environmental protection use period is only apply to product working under condition specified in Installation and Operation Manual)

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