

DMH 25x, DMH 28x, DMX 226 ATEX-approved pumps

Ⓒ Supplement to installation and operating instructions



Declaration of Conformity

We **Grundfos Aildos** declare under our sole responsibility that the products **DMH 25x**, **DMH 28x** and **DMX 226**, to which this declaration relates, are in conformity with the Council Directives on the approximation of the laws of the EC Member States relating to

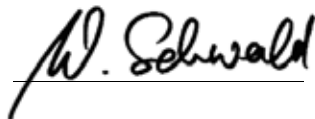
For the pump as non-electrical device:

- ATEX 94/9/EC (ATEX 100).
Standards used: EN 1127-1: 1997, EN 13463-1: 2001 and EN 13463-5: 2003.
- Machinery (98/37/EC).
Standard used: EN ISO 12100.

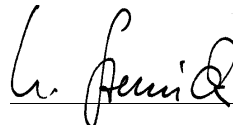
Additionally for the pump as a unit with motor:

- Electromagnetic compatibility (89/336/EEC).
Standards used: EN 61000-3-2: 1995, + A1 + A2, EN 61000-3-3: 1995 and EN 61326: 1997, + A1 + A2, Class B.
- Electrical equipment designed for use within certain voltage limits (73/23/EEC) [95].
Standard used: EN 61010-1: 2002.

Pfinzthal, 15th February 2008



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Prior to installation, read the whole of this manual very carefully and note the information contained herein.

In addition to these instructions, observe the general installation and operating instructions supplied with the pump.

Note

Warning symbols have not been included in order to make the manual easier to read.

1. Operating pumps in potentially explosive atmospheres

This manual describes additional conditions or special considerations affecting the operation of pumps in potentially explosive atmospheres. This manual is only valid together with the installation and operating instructions for the pump. Both documents should be used.

Installation, maintenance and repairs must only be carried out by suitably qualified and authorised personnel.

2. Device designs

The motor and accessories for the pumps, e.g. the metrology-based monitoring, must at minimum meet the requirements of Directive 94/9/EC as applicable to pumps. The original configuration of the pump must not be modified.

2.1 Identification

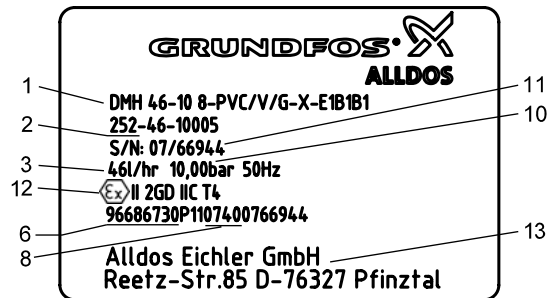


Fig. 1 Example of ATEX nameplate

Pos.	Description
1	Type designation
2	Model
3	Maximum capacity [l/h]
6	Product number
8	Year and week code
10	Maximum pressure [bar]
11	Serial number
12	ATEX designation
13	Manufacturer

2.2 Pump configuration

Grundfos AllDOS produces pumps in accordance with Directive 94/9/EC. These pumps correspond to the specifications in the table below. Pumps which are not configured in accordance with the table cannot be used in potentially explosive atmospheres.

Permissible pump configuration

Feature	Description
Front plate	Metallic
Electronics	No electronics

2.2.1 Diaphragm leakage detection

DMH pumps meeting the requirements of Directive 94/9/EC can optionally be fitted with an approved diaphragm leakage detection with an Ex i pressure gauge meeting the requirements of Directive 94/9/EC.

Pumps with other types of diaphragm leakage detection cannot be used in potentially explosive atmospheres.

2.2.2 Dosing head and valves

Grundfos AllDOS supplies pumps meeting the requirements of Directive 94/9/EC with appropriately approved dosing head/valve combinations meeting the requirements of Directive 94/9/EC. Pumps with other types of dosing head/valve combination cannot be used in potentially explosive atmospheres.









Stainless-steel valves must not be combined with non-metal dosing heads.

TM03 7006 4506

The size of the dosing head (depending on the pump type) and the dosing head material determine the suitability of the pump for operation in potentially explosive atmospheres caused by media of group IIB or IIC:

Dosing head material	Pump types				
	DMH 251-255	DMH 257	DMH 28x	DMX 226 Head sizes 1-3	DMX 226 Head size 4
PVC	IIC	IIB	IIC	IIC	IIB
Stainless steel, DIN 1.4571	IIC	IIC	IIC	IIC	IIC
Stainless steel, DIN 2.4610	IIC	IIC	IIC	–	–
PP	IIC	IIB	IIC	IIC	IIB
PVDF	IIC	IIB	IIC	IIC	IIB

Nameplate of pump with motor

Motor nameplate	Pump nameplate	Suitable for category 2, explosion group / temperature class
 II 2G Ex e II T3	 II 2G IIB T3	IIB / T3
 II 2G Ex e II T3	 II 2G IIC T3	IIC / T3
 II 2GD Ex die IIC T4	 II 2GD IIB T4	IIB / T4
 II 2GD Ex die IIC T4	 II 2GD IIC T4	IIC / T4

Further information about using the pump can be found in section [3. Operating conditions](#).

3. Operating conditions

3.1 Environmental conditions

The pumps with appropriate nameplates are suitable for operation in potentially explosive atmospheres Zones IIB or IIC, depending on the type of pump and its equipment.

Minimum/maximum ambient temperature T_{amb} .

- Minimum T_{amb} : $-20\text{ }^{\circ}\text{C}$.
- Maximum T_{amb} : $+40\text{ }^{\circ}\text{C}$.

The materials used for seals and lubricants must be resistant to vapours, gases or dust generated in the atmosphere of the operating area. This applies particularly to contact with solvent vapours which can damage plastics or change the composition of oil or gear lubricant, thereby affecting its efficiency/ability to function.

The pumps may only be used if, under the prevailing operating conditions, their materials and operating liquids are sufficiently resistant to mechanical and/or chemical influences in order not to jeopardise explosion protection.

2.2.3 Motor

Grundfos Allidos pumps complying with Directive 94/9/EC are supplied with motors that are complying with Directive 94/9/EC and have been tested and labelled accordingly.



Alternatively, pump units can be supplied separately, and in this case the user must fit a motor that complies with Directive 94/9/EC. Pumps with other types of motor cannot be used in potentially explosive atmospheres.

2.2.4 Pump designation

The information meeting the requirements of Directive 94/9/EC given on the pump as a non-electrical device depends on the pump/motor configuration selected.

Pumps with motor are labelled in accordance with Directive 94/9/EC. However, if the pump is supplied without a motor, the labelling is only applicable to the pump unit.

Nameplate of the pump unit only (pump supplied without motor)

Pump unit nameplate	Suitable for category 2, explosion group / temperature class
 II 2GD c IIB T130 °C	IIB / 130 °C
 II 2GD c IIC T130 °C	IIC / 130 °C

3.2 Dosing medium

3.2.1 Permissible temperature

For DMH 28x pumps, the permissible media temperature deviates from the information in the general installation and operating instructions.

Permissible media temperature

Dosing head material	Max. media temperature			
	p < 10 bar		p < 16 bar	
	Min. [°C]	Max. [°C]	Min. [°C]	Max. [°C]
PVC	0	40	0	20
Stainless steel, DIN 1.4571	-10	70*	-10	70*
Stainless steel, DIN 2.4610	-10	70*	-10	70*
PP	0	40	–	–
PVDF*	-10	60	-10	20
*(< 9 bar: 70)				

* 90 °C with DMH

3.2.2 Permissible dosing media

The DMH 25x, DMH 28x and DMX 226 pumps are suitable for liquid, non-abrasive and non-inflammable media.

The DMH 25x and DMH 28x pumps in the following configuration can also be used for dosing combustible media:

- Explosion-proof design with appropriate designation on the pump nameplate, see section [2.1 Identification](#), and
- stainless-steel dosing heads and valves, and
- stainless-steel design of the diaphragm leakage detection in the explosion-proof design with evaluator.

4. Installation

The operator is responsible for setting up the system in accordance with the requirements of Directive 99/92/EC, taking into account the appropriate standards for its application.

The motor and accessories for the pumps, e.g. the actuator, frequency converter and metrology-based monitoring, must at minimum meet the requirements of Directive 94/9/EC as applicable to pumps. Accessories for the system and pipeline must at minimum meet the requirements of Directive 94/9/EC as applicable to pumps.

An intrinsically safe installation must only be made and checked by someone who is "appropriately qualified".

Make sure you read the installation and operating instructions supplied with the individual electrical components.

Make sure you adhere to applicable national regulations when installing the system.

4.1 Earthing

All pumps and accessories for the installation must be earthed.

The plastic version of the diaphragm leakage detection does not have a conductive connection to the pump and must be earthed by the customer.

4.2 Overflow valve

DMX 226: An overflow valve must be installed in the discharge line to prevent impermissibly high pressure on the discharge side of the pump.

DMH 25x and DMH 28x: If the DMH 25x or DMH 28x is the only pressure source in the system, it is not necessary to install an overflow valve in the discharge line.

4.3 Suction line

Impurities in the dosing medium may damage the diaphragm or block the discharge side of the dosing head.

Install a filter (aperture size 1.5 mm) in the suction line to prevent the pressure increasing in the event of a fault due to a blockage on the discharge side and damage to the diaphragm.

4.4 Dosing of combustible media

For dosing combustible media, see section [3.2.2 Permissible dosing media](#).

4.4.1 Installation for feed mode

The pump must not run dry, even during commissioning/recommissioning.

The pump should be installed so that the discharge line can be deaerated during start-up of the pump to enable the dosing medium to flow into the dosing head.

4.4.2 Draining off the dosing medium

Lines for draining off media safely should be connected to the safety valves (such as the overflow valve in the discharge line on the discharge side of the pump) or vent valves via which the combustible media are drained off. The media must be drained off safely in order not to pose a risk to persons or property.

4.4.3 Protection against running dry / flow indicator

An explosive mixture of vapours may form in tanks which are partially empty. The pumps must not run dry in order to prevent explosive atmospheres in storage tanks being transferred to other areas.

The customer should install level indicators in tanks or flow indicators on the discharge side of the pumps to prevent them from running dry.

The intake of air must be prevented. Check suction lines regularly to make sure they are tight.

4.4.4 Diaphragm leakage detection

During operation, pumps must not become a source for impermissible medium leaks (this is particularly important where combustible media are dosed).

The evaluation of the diaphragm leakage signal (electrically isolated reed contact) of the diaphragm leakage detection must be used to stop the pump immediately.

5. Commissioning

The pumps must not run against closed valves and fittings.

For dosing combustible media, see section [3.2.2 Permissible dosing media](#).

The first time the pump is started up or when it is restarted after the dosing head has been emptied, explosive vapour mixtures may form.

The pump must run with a completely full dosing head during start-up and when restarted:

- Fill the dosing head and suction line with the dosing medium, or,
- with flooded suction, deaerate the discharge line to enable the dosing medium to flow into the dosing head.

5.1 Safety instructions

5.1.1 For operating the explosion-proof pump

The pumps must not run against closed valves and fittings.

Risk of explosion due to overheating of the pumps.

Prescribed maintenance operations must be carried out at regular intervals in order to ensure continued conformity with the requirements of Directive 94/9/EC.

5.1.2 Faults

Faults, e.g. reduction in dosing performance, may be caused by damage to the pump, leading to an increased risk of explosion.

In the event of a fault during operation, the pump must be stopped immediately and the fault corrected.

6. Maintenance

Risk of explosion due to overheating of the pumps.

Prescribed maintenance operations must be carried out at regular intervals in order to ensure continued conformity with the requirements of Directive 94/9/EC.

6.1 Cleaning

In order to prevent heat accumulating due to dust deposits on the pump, the pump must be cleaned at regular intervals. It is the responsibility of the operator to set suitable intervals. Dust must not be allowed to accumulate > 5 mm.

6.2 Lubrication

Check the pump regularly for noise generation. The bearings must not overheat.

DMH 25x and DMH 28x: Check the oil level every two weeks. If there is insufficient oil, stop the pump immediately and add oil. Change the oil every 8000 operating hours. Only use oil approved by Grundfos Alldos.

DMX 226: The gear lubricant must be changed every 8000 operating hours by qualified and authorised personnel or by the manufacturer.

6.3 Accessories / peripherals

Check the overflow valve (if installed) regularly to make sure that it is functioning correctly. In the event of a fault in potentially explosive atmospheres, the overflow valve must prevent the gear becoming overloaded and overheated.

Check the filter in the suction line or on the suction lance regularly, and clean it, if necessary. It is the responsibility of the operator to set suitable intervals.

Check the lines regularly to make sure that they are tight.

Danger due to the formation of explosive vapours:

All seals, screw connections and deaeration screws must be checked regularly to make sure that they are operational and tight.

6.4 Tools and maintenance work

Tools meeting the requirements of EN 1127-1 Appendix A must be used for all operations on pumps in potentially explosive atmospheres.

There is a general ban on the use of any type of steel tool in Zone 1 if there is a risk of explosion due to materials in Explosion Group IIC and hydrogen sulphide, ethylene oxide or carbon monoxide.

Pump maintenance should be carried out in non-explosive atmospheres or only if it can be proven that the area in which repairs are to be carried out is not a potentially explosive atmosphere.

For information about spare parts, please refer to the general installation and operating instructions for the pump.

The original configuration of the pump must not be modified.

7. Declaration of conformity / certificates

The EC declaration of conformity at the beginning of this booklet replaces the declaration of conformity in the general installation and operating instructions supplied with the pump.

Any modifications made to the pump without our approval will invalidate this declaration.

Before installing the pump, make sure that the system into which it is installed complies with the provisions of the directives. Commissioning is prohibited until this has been established.

The prototype test certificate is supplied with the pump on CD (in English and German).

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