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Micro Diaphragm Gas Sampling Pumps

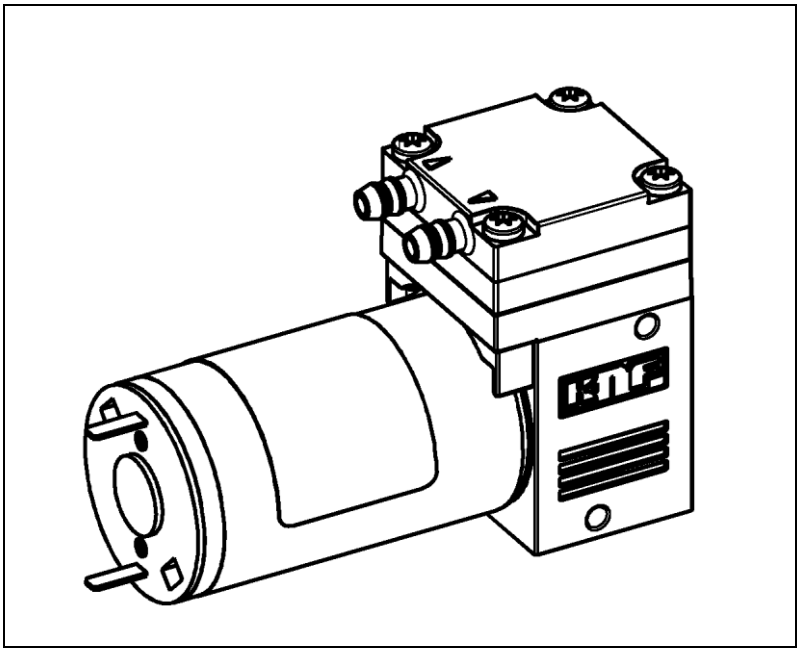
NMP830KNDC
NMP830KVDC
NMP830KTDC
NMP850KNDC
NMP850KTDC

NMP830KNDCB
NMP830KVDCB
NMP830KTDCB
NMP850KNDCB
NMP850KTDCB
NMP850.1.2KNDCB

NMP830KNI
NMP830KVI
NMP830KTI

Operating and Installation Instructions

Read and observe these Operating and Installation Instructions!



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1. About this document

1.1. Using the Operating and Installation Instructions

The Operating and Installation Instructions are part of the pump.

➔ Pass on the Operating and Installation Instructions to the next owner.

Project pumps

Customer-specific project pumps (pump models which begin with "PU" or "MPU") may differ from the Operating and Installation Instructions.

➔ For project pumps, also observe the agreed upon specifications.

1.2. Symbols and markings

Warning



WARNING

A danger warning is located here.

Possible consequences of a failure to observe the warning are specified here. The signal word, e.g. Warning, indicates the danger level.

➔ Measures for avoiding the danger and its consequences are specified here.

Danger levels

Signal word	Meaning	Consequences if not observed
DANGER	warns of immediate danger	Death or serious injuries and/or serious damage are the consequence.
WARNING	warns of possible danger	Death or serious injuries and/or serious damage are possible.
CAUTION	warns of a possibly dangerous situation	Minor injuries or damage are possible.

Tab. 1

Other information and symbols

➔ An activity to be carried out (a step) is specified here.

1. The first step of an activity to be carried out is specified here. Additional, consecutively numbered steps follow.

i This symbol refers to important information.

2. Use

2.1. Proper use

The pumps are exclusively intended for transferring gases.

Owner's responsibility

Operating parameters and conditions

Only install and operate the pumps under the operating parameters and conditions described in Chapter 4, Technical data.

Only complete pumps may be taken into service.

Make sure that the installation location is dry and the pump is protected against rain, splash, hose and drip water.

Requirements for transferred medium

Before using a medium, check whether the medium can be transferred danger-free in the specific application case.

Before using a medium, check the compatibility of the materials of the pump head, pump housing, diaphragms, and valves with the medium.

Only transfer gases which remain stable under the pressures and temperatures occurring in the pump.

2.2. Improper use

The pumps may not be operated in an explosive atmosphere.

The pumps are not suitable for transferring dusts.

The pumps are not suitable for transferring vapors and liquids.

The pumps must not be used to create vacuum and overpressure simultaneously.

An overpressure must not be applied to the suction side of the pump.

3. Safety

Note the safety precautions in Chapters 6*. Installation and connection,* and 7*. Operation*.

The pumps are built according to the generally recognized rules of technology and in accordance with the occupational safety and accident prevention regulations. Nevertheless, dangers can result during their use which leads to injuries to the user or others, or to damage to the pump or other property.

Only use the pumps when they are in a good technical and proper working order, in accordance with their intended use, observing the safety advice within the Operating and Installation Instructions, at all times.

Personnel

Make sure that only trained and instructed personnel or specially trained personnel work on the pumps. This especially applies to assembly, connection and servicing work.

Make sure that the personnel has read and understood the Operating and Installation Instructions, and in particular the "Safety" chapter.

Working in a safety-conscious manner

Observe the accident prevention and safety regulations when performing any work on the pump and during operation.

Handling dangerous media

When transferring dangerous media, be sure to observe the safety regulations when handling these media.

Handling combustible media

Be aware that the pumps are not designed to be explosion-proof.

Make sure the temperature of the medium is always sufficiently below the ignition temperature of the medium, to avoid ignition or explosion. This also applies for unusual operational situations.

Note that the temperature of the medium increases when the pump compresses the medium.

Hence, make sure the temperature of the medium is sufficiently below the ignition temperature of the medium, even when it is compressed to the maximum permissible operating pressure of the pump.

If necessary, consider any external sources of energy, such as radiation, that may add heat to the medium.

In case of doubt, consult the KNF customer service.

Environmental protection

Store all replacement parts in a protected manner and dispose of them properly in accordance with the applicable environmental protection regulations. Observe the respective national and international regulations. This especially applies to parts contaminated with toxic substances.

EC Directives / Standards

For the purposes of the Machinery Directive 2006/42/EC, pumps are “partly completed machinery,” and are therefore to be regarded as not ready for use. Partly completed machinery may not be commissioned until such time as it has been determined that the machine in which the partly completed machinery is to be assembled is in conformity with the provisions of the Machinery Directive 2006/42/EC. The following essential requirements of

Annex I of Directive 2006/42/EC (general principles) are applied and observed:

- General Principles No. 1
- No. 1.1.2. / 1.1.3. / 1.3.1. / 1.3.3. / 1.3.4. / 1.4.1. / 1.5.1.* / 1.5.2.* / 1.5.8. / 1.5.9. / 1.7.4. / 1.7.4.1. / 1.7.4.3.
  (only for pump type NMP 830 K_E)*

As these partly completed machinery are OEM-models the power supplies and the equipment for disconnecting and switching-off the partly completed machinery respectively have to be considered when mounting as well as over-current and overload protective gear.

In addition a protection against mechanical parts in motion and hot parts, if existing, has to be provided when mounting.

CE

The pumps conform to the Directive 2011/65/EU (RoHS2).

The pumps conform to the EC Directive 2004/108/EC concerning Electromagnetic Compatibility.
The following harmonized standards have been used:

NMP830 K_I	NMP830K_DC NMP850K_DC	NMP830K_DCB NMP850K_DCB NMP850.1.2KNDCB
DIN EN 55014-1/2	DIN EN 55014-1/2	DIN EN 55014-1
DIN EN 61000-3-2/3	DIN EN 60034-1	DIN EN 61000-6-2
DIN EN 60335-1	DIN EN 61000-6-1/2	

Tab. 2

Customer service and repairs

Only have repairs to the pumps carried out by the KNF Customer Service responsible.

4. Technical Data

Pump materials

NMP830KNDC, NMP830KNDCB

NMP850KNDC, NMP850KNDCB, NMP850.1.2KNDCB

NMP830KNI

Assembly	Material*
Head plate; intermediate plate	PPS
Housing	PA-GF50
Valve plate	CR
O-ring	NBR
Diaphragm	EPDM

Tab. 3 ** according to DIN ISO 1629 and 1043.1*

NMP830KVDC

NMP830KVDCB

NMP830KVI

Assembly	Material*
Head plate; intermediate plate	PPS
Housing	PA-GF50
Valve plate	FPM
O-ring	FPM
Diaphragm	FPM

Tab. 4 ** according to DIN ISO 1629 and 1043.1*

NMP830KTDC, NMP830KTDCB

NMP850KTDC, NMP850KTDCB

NMP850KTI

Assembly	Material*
Head plate; intermediate plate	PPS
Housing	PA-GF50
Valve plate	FFPM
O-ring	FPM
Diaphragm	PTFE coated

Tab. 5 ** according to DIN ISO 1629 and 1043.1*

Pneumatic values

Pump type	Delivery rate at atm. pressure [l/min]*	Max. permissible operating pressure [bar g]	Ultimate vacuum [mbar abs.]
NMP830KNE	1.8	1	250
NMP830KVE			
NMP830KTE	1.6		310
NMP830KNDC	3.1		250
NMP830KVDC	2.7		
NMP830KTDC	2.6		350
NMP830KNDCB	2.5	1.4	240
NMP830KVDCB	2.1		
NMP830KTDCB		1.3	330
NMP850KNDC	4.5	1.5	230
NMP850KTDC	3.9		300
NMP850KNDCB	4.2		230
NMP850KVDCB	3.5		300
NMP850.1.2KNDCB	8		230

Tab. 6 ** Liters in standard state (1,013 mbar)*

Electrical data

Parameter	Value
Electrical data	See type plate

Tab. 7

Dimensions

Pump type	Dimensions [L x W x H]
NMP830 I	approx. 98 x 56 x 66
NMP830 DC	approx. 76 x 30,5 x 51
NMP830 DCB	approx. 63.5 x 54x 66
NMP850 DC	approx. 80.5 x 38 x 54
NMP850 DCB	approx. 76.5 x 54 x 69.5
NMP850.1.2 DCB	approx. 143 x 76 x 59

Tab. 8

Weight

Pump type	Weight [kg]
NMP830 E	approx. 0.590
NMP830 DC	approx. 0.195
NMP830 DCB	approx. 0.270
NMP850 DC	approx. 0.210
NMP850 DCB	approx. 0.360
NMP850.1.2 DCB	approx. 0.430

Tab. 9

Other parameters

Parameter	Values
Pneumatic connections NMP 830	For tube ID 4 mm
Pneumatic connections NMP 850	For tube ID 5 mm
Pneumatic connections NMP 850.1.2	For tube ID 4 mm
Permissible ambient temperature	+ 5 °C to + 40 °C
Permissible media temperature	+ 5 °C to + 40 °C
Maximum permissible ambient relative humidity	80 % for temperatures up to 31 °C, decreasing linearly to 50 % at 40 °C
Max. altitude of site [m above sea level]	2000

Tab. 10

5. Design and function

Design

1 Motor
2 Inlet
3 Outlet
4 Pump head

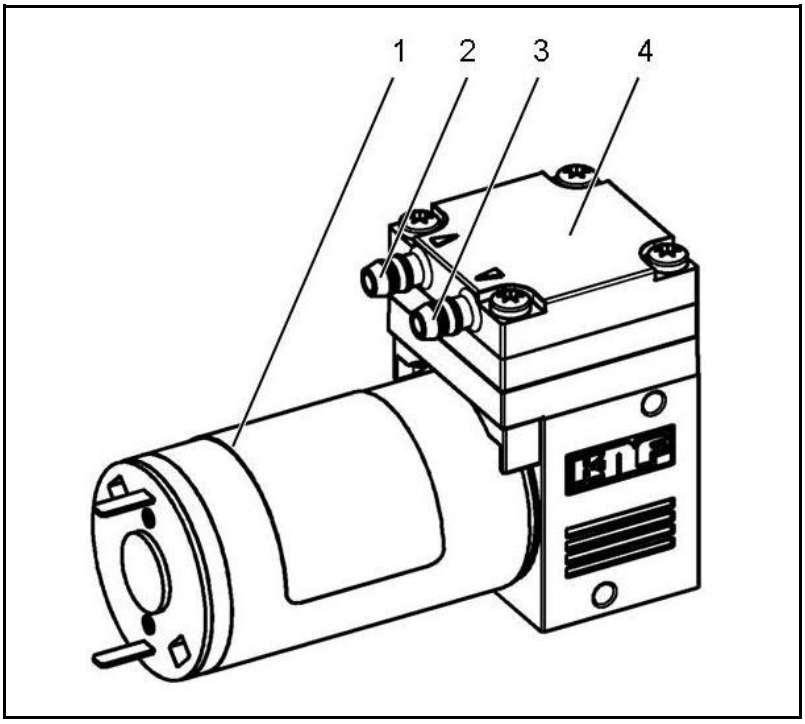


Fig. 1: Diaphragm pump NMP 830__DC

Function

1 Outlet valve
2 Inlet valve
3 Transfer chamber
4 Diaphragm
5 Eccentric
6 Connecting rod
7 Pump drive

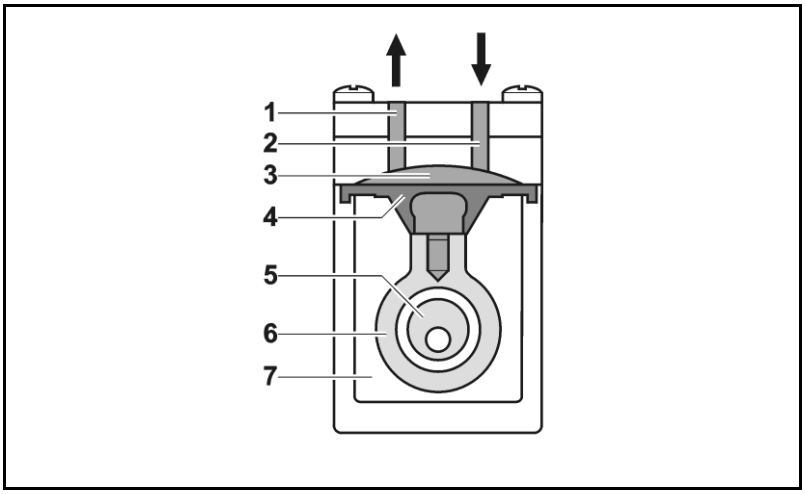


Fig. 2: Pump head

The pumps transfer, compress and evacuate gases.

The elastic diaphragm (**4**) is moved up and down by the eccentric (**5**) and the connecting rod (**6**). In the downward stroke it aspirates the gas to be transferred via the inlet valve (**2**). In the upward stroke, the diaphragm presses the medium out of the pump head via the outlet valve (**1**). The transfer chamber (**3**) is hermetically separated from the pump drive (**7**) by the diaphragm.

6. Installation and connection

Only install and operate the pumps under the operating parameters and conditions described in Chapter 4, Technical data.

Observe the safety precautions (see Chapter 3).

6.1. Installation of the pump

➔ Before installation, store the pump at the installation location to bring it up to ambient temperature.

Mounting dimensions

➔ See the data sheet for the mounting dimensions.

Installation location

➔ Make sure that the installation location is dry and the pump is protected against rain, splash, hose and drip water.

➔ Install the pump at the highest point in the system to prevent condensate from collecting in the pump head.

➔ Choose a safe location (flat surface) for the pump.

➔ Protect the pump from dust.

➔ Protect the pump from vibrations and jolts.

6.2. Electrical connection

➔ Only have the pump connected by an authorized specialist.

➔ Only have the pump connected when the power supply is disconnected.

➔ In the electrical installation, arrangements (complying with EN 60335-1) must be made for disconnecting the pump motor from the electrical supply.

Connecting pump

1. Compare the supply data with the data on the motor-plate. For operating current see type plate.

i The voltage must not vary by more than + 10% and - 10% from that shown on the type-plate.

The earth (ground) wire must be connected to the motor (not necessary on dc motors up to 24V).

2. Connect the earth (ground) wire to the motor (not necessary on dc motors up to 24V).
3. Connect the positive and negative pole.

i Note the proper polarity (see marking on the motor). Incorrect lead connection will damage electronics of brushless dc motors (type designation ending with B).

For brushed dc motor lead wires connection:

\+ red wire - black wire

For brushless dc motor lead wire connection:

\+ red wire - blue wire

White wire: Voltage control 0-5 V DC (4 wire motor only)

Green wire: Frequency output (4 wire motor only)

EMC-compatible Installation

a) DC motor (brushed)

The Tests:

- Magnetic field with energy-technical frequency
- Electromagnetic HF field, amplitude-modulated
- Electromagnetic HF field, pulse-modulated
- Discharging of static electricity
- High frequency, asymmetric
- Fast transients

were not carried out, cause the products do not contain electronic modules, which can be affected by these tests.

The Surge-test can only be passed with additional means, or is not mandatory, if: From EN61000-6-1 technical norm for EMC protection, part 1,10 test demands for EMC protection, table 3, EMC protection, D.C.- power in- and outputs. Remark 3: (quotation) Not to be used with input connections which are foreseen for a connection with a battery or a rechargeable battery which has to be removed or disconnected from the device for the recharge.

Devices with a D.C. power input which are foreseen to be operated with an A.C. / D.C. converter have to be tested at an A.C. power input of an A.C. / D.C. converter fixed by the manufacturer. In case the converter was not fixed they have to be tested at an A.C. power input of a typical (usual) A.C. / D.C. converter.

The test is applicable for D C power inputs which are foreseen for a permanent connection to cables which are longer than 10 m.

b) DC motor (brushless)

In order to remove the electrical interference according to EN 55014-1:1993 + A1:1997 all pumps with brushless DC motor (DC B) must be equipped with an additional electronic circuit. This electronic circuit has to be installed as close to the motor as possible.

The additional circuitry is not necessary if a voltage supply has a suppression of > 20 dB at 150 kHz and 0 dB at 1 MHz.

The supplemental circuit must be structured according to the following electrical diagram and the components defined therein in order to achieve the required level of suppression

C1:	Capacitor	1 µF
C2:	Capacitor	1000 µF
L1:	Choke coil	6 µH

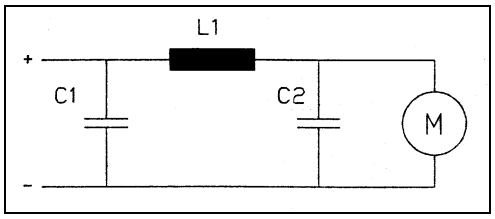


Fig. 3: Electrical diagram of the supplemental circuit

6.3. Pneumatic connection

Connected components

➔ Only connect components to the pump which are designed for the pneumatic data of the pump (see Chapter 4, Technical data).

Pump exhaust

➔ If the pump is used as a vacuum pump, safely discharge the pump exhaust at the pump´s pneumatic outlet.

Connecting pump

A marking on the pump head shows the direction of flow.

1. Remove the protective plugs from the hose connectors.
2. Connect the suction line and pressure line.
3. Lay the suction and pressure line at a downward angle to prevent condensate from running into the pump.

7. Operation

Only operate the pumps under the operating parameters and conditions described in Chapter 4, Technical data.

Make sure the pumps are used properly (see Chapter 2.1).

Make sure the pumps are not used improperly (see Chapter 2.2).

Observe the safety precautions (see Chapter 3).



WARNUNG

Hazard of the pump head bursting due to excessive pressure increase

- ➔ Do not exceed max. permissible operating pressure (see Chapter 4, Technical data).
- ➔ Monitor pressure during operation.
- ➔ If the pressure exceeds the maximum permissible operating pressure, immediately switch off pump and eliminate fault (see Chapter 8. Troubleshooting).
- ➔ Only throttle or regulate the air or gas quantity in the suction line to prevent the maximum permissible operating pressure from being exceeded.
- ➔ If the air or gas quantity in the pressure line is throttled or regulated, make sure that the maximum permissible operating pressure is not exceeded.

i Excessive pressure (with all of the related hazards) can be prevented by placing a bypass line with a pressure-relief valve between the pressure and suctions sides of the pump. For further information, contact our technical adviser (see front page for telephone number).

Pump standstill

➔ With the pump at a standstill, open pressure vacuum and suction lines to normal atmospheric pressure.

Switching pump on

i The pump may not start up against pressure or vacuum during switch-on. This also applies in operation following a brief power failure.

➔ Make sure that normal atmospheric pressure is present in the lines during switch-on.

Inspection

➔ Regularly inspect the pump for external damage or leaks. Diaphragm and valve plate(s) are the only parts subject to wear. Wear is usually indicated by a drastic reduction in the pneumatic performance. When replacing parts proceed as described in Chapter 8.

8. Servicing

Before working on the pump, isolate the power supply securely, then check that the lines are not live.

Always change valve plate(s), diaphragm, and O-rings (if existing) at the same time.

8.1. NMP830

Parts required

Type range	Kit Parts	Order-No.
NMP830KN_	1 Diaphragm 2 Valve plates 2 O-Rings	076298
NMP830KV_	1 Diaphragm 2 Valve plates 2 O-Rings	076300
NMP830KT_	1 Diaphragm 2 Valve plates 2 O-Rings	076299

Tab. 11: Parts

Tools required

Tool
Torx screwdriver, Torx 10 IP (current style unit) Phillips screwdriver No.1 (older style unit)
Pencil

Tab. 12: Tools

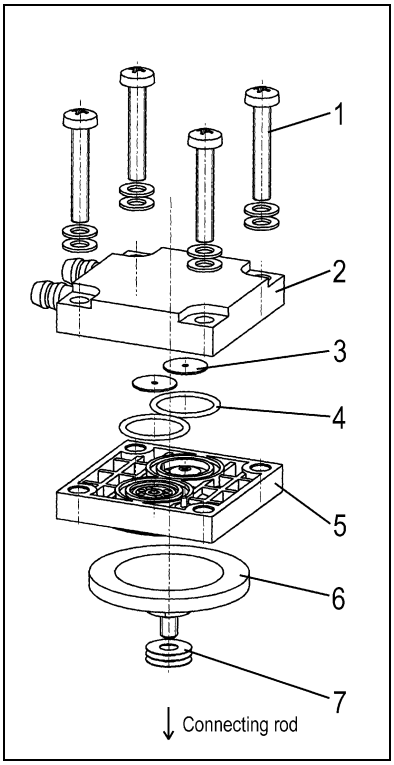


*Fig. 4: Pump head NMP 830K_*

Specification

1 Screw
2 Head plate
3 Valve plate
4 O-ring
5 Intermediate plate
6 Diaphragm
7 Spacer

See fig. 4.

1. Mark the position of head parts relative to each other by a drawing line with a pencil. This helps to avoid incorrect assembly later.
2. Undo the four screws (**1**) in the head.
3. Lift the head plate (**2**) and the intermediate plate (**5**) complete with valve plates (**3**) and O-rings (**4**) off the housing.
4. Hold the pump with one hand, so that the diaphragm is pointing downwards. Lift the diaphragm (**6**) by the opposing side edges, grasp it and unscrew it in the counter-clockwise direction.

5. Take the diaphragm spacers (**7**) off the threaded portion of the diaphragm and put them on the threaded portion of the new diaphragm.
6. Move the connecting rod to the upper point.
7. Screw the new diaphragm (**6**) with spacers (**7**) clockwise onto the connection rod and tighten hand-tight.
8. Place the intermediate plate (**5**) on the housing, in the position indicated by the drawing line.
9. Exchange both valve plates (**3**) and both O-rings (**4**). The valve plates for pressure and suction sides are identical, as are upper and lower sides of the plates.
10. Place the head plate (**2**) on the intermediate plate (**5**), in the position indicated by the drawing line; gently tighten the four screws (**1**) evenly and diagonally (if a torque screwdriver is available: torque about 0.30 Nm).
11. Let the pump run.

8.2. NMP850

Parts required

Typre range	Kit Parts	Order-No.
NMP850KN_	1 Diaphragm 1 Valve plate	202563
NMP850.1.2KNDCB	2 Diaphragms 2 Valve plates	202563
NMP850KT_	1 Diaphragm 1 Valve plate	202564

Tab. 13: Parts

Tools required

Tools
Torx screwdriver, Torx 10 IP (current style unit) Phillips screwdriver No.1 (older style unit)
Pencil

Tab. 14: Tools

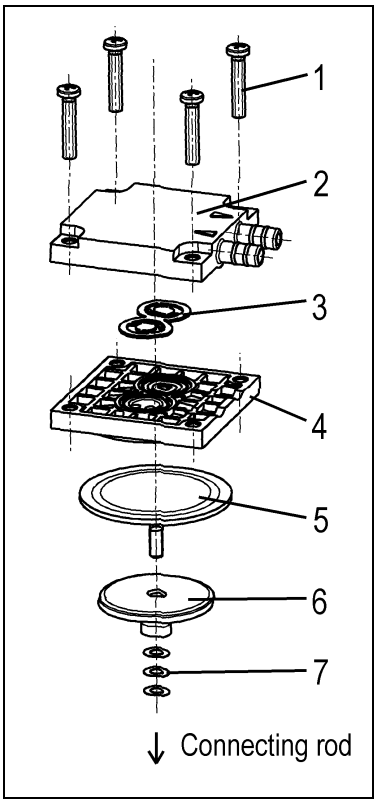


*Fig. 5: Pump head NMP 850 K_*

Specification

1 Screw
2 Head plate
3 Valve plate (one piece)
4 Intermediate plate
5 Diaphragm
6 Connecting rod disc
7 Spacer

See fig. 5.

For pump NMP850.1.2KNDCB:
To avoid opening the pneumatic connection between the pump heads service the pump as described below with the following addition: Make steps 1 to 3 and 11 for both pump heads together.

1. Mark the position of head parts relative to each other by a drawing line with a pencil. This helps avoid incorrect assembly later.
2. Undo the four screws (**1**) in the head.
3. Lift the head plate (**2**) and the intermediate plate (**4**) off the housing.
4. Hold the pump with one hand, so that the diaphragm is pointing downwards. Lift the diaphragm (**5**) by the opposing side edges, grasp it and unscrew it in the counter-clockwise direction.
5. Remove connection rod disc (**6**) and diaphragm spacers (**7**) from the threaded pin of the diaphragm.
6. Push the connection rod disc (**6**) and the diaphragm spacers (**7**) in this order onto the threaded pin of the new diaphragm.
7. Move the connecting rod to the upper point.

8. Screw the new diaphragm (**5**) with connection rod disc (**6**) and spacers (**7**) clockwise onto the connection rod and tighten hand-tight.
9. Place the intermediate plate (**4**) on housing, in the position indicated by the drawing line.
10. Place the new valve plate (**3**) on the intermediate plate (**4**).
11. Place the head plate (**2**) on the intermediate plate (**4**), in the position indicated by the drawing line; gently tighten the four screws (**1**), evenly and diagonally (if a torque screwdriver is available: torque about 0.30 Nm).
12. Let the pump run.

9. Troubleshooting

➔ Disconnect the pump power supply before working on the pump.
➔ Make sure the pump is de-energized and secure.

Check the pump (see Tab. 15 and 16).

Pump does not transfer	
Cause	Fault remedy
Connections or lines blocked.	➔ Check connections and lines. ➔ Remove blockage.
External valve is closed or filter is clogged.	➔ Check external valves and filters.
Condensate has collected in pump head.	➔ Install pump at highest point in system.
Diaphragm or valve plates are worn.	➔ Replace pump.

Tab. 15

Flow rate, pressure or vacuum too low The pump does not achieve the output specified in the Technical data or the data sheet.	
Cause	Fault remedy
Condensate has collected in pump head.	➔ Install pump at highest point in system.
There is gauge pressure on pressure side and at the same time vacuum or a pressure above atmospheric pressure on suction side.	➔ Change the pressure conditions.
Pneumatic lines or connection parts have an insufficient cross section.	➔ Disconnect pump from system to determine output values. ➔ Eliminate throttling (e.g. valve) if necessary. ➔ Use lines or connection parts with larger cross section if necessary.
Leaks occur on connections, lines or pump head.	➔ Eliminate leaks.
Connections or lines completely or partially jammed.	➔ Check connections and lines. ➔ Remove the jamming parts and particles.
Head parts are soiled.	➔ Clean head components.
Diaphragm or valve plates are worn.	➔ Change diaphragm or valve plates (see Chapter 8 Servicing).

Tab. 16

Fault cannot be rectified

If you are unable to determine any of the specified causes, send the pump to KNF Customer Service (see last page for the address).

1. Flush the pump to free the pump head of dangerous or aggressive gases.
2. Remove the pump
3. Clean the pump

4. Send the pump to KNF with a filled out decontamination declaration (see Chapter 9) and specification of the medium transferred.

10. Product Return

The condition for the repair of a pump by KNF is the certification of the customer on the transferred media and on the cleaning of the pump (decontamination declaration).

➔ KNF provides warranty and non-warranty repair services for all products.

➔ A Return Material Authorization (RMA) number is required for all product returns.

- To receive an RMA number, submit a completed Decontamination Declaration form to rma@knf.com

➔ The Decontamination Declaration form can obtained from our website or by contacting KNF Technical Services.

- http://www.knf.com/pdfs/decontamdec.doc
- Phone: 609-890-8600

➔ Product return instructions will be provided when the RMA is issued.

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