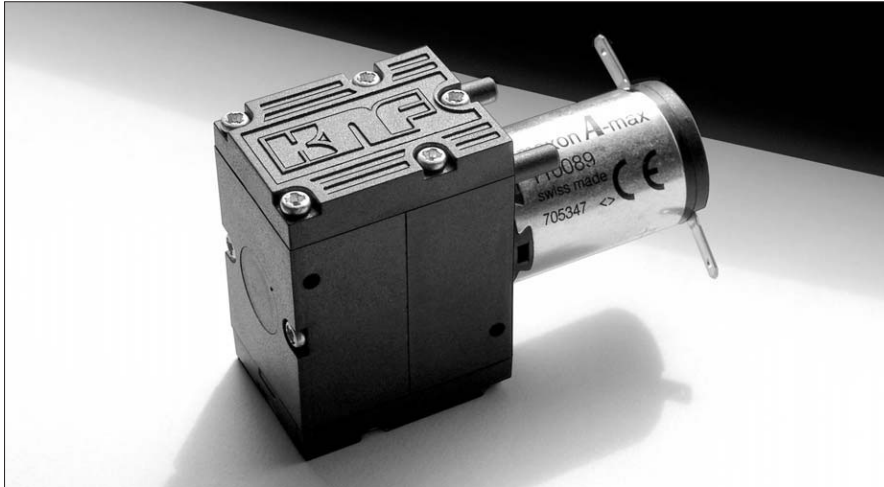


## MICRO DIAPHRAGM GAS SAMPLING PUMP with internal head connections

SECTION 20.29



Double-headed Pump NMP015.1.2 KNDC, shown with ironless-core DC motor.

### Technology

The double-headed KNF diaphragm pump features a head connection for the two pump heads that is integrated into the housing. Only slight pulsation results, thanks to the optimized design of the integrated head connection. This new technology, in conjunction with the principle of the double-headed micro-diaphragm pump, whereby the air volume in the pump housing is not compressed, means that it can operate with an extremely low level of noise.

### Motor Types

The double-headed KNF diaphragm pump is fitted with a DC motor with a robust ironless rotor or with DCB brushless motor for long service life.

### Concept

The micro diaphragm gas sampling pumps from KNF are based on a simple principal - an elastic diaphragm, fixed on its edge, moves up and down its central point by means of an eccentric. In this way the medium is transferred using automatic valves.

The new double-headed micro-diaphragm pump NMP015.1.2 offers improved pneumatic performance in conjunction with a smaller size. The new technology results in low pulsation and minimum noise emission.

Additional technical features include efficient valve and sealing systems, as well as a precision bolting system on the pump heads.

### Features

#### Uncontaminated flow

No contamination of the media due to oil-free operation

Chemically-resistant Versions

#### Maintenance-free

#### Compact size

#### High pneumatic performance

#### Low aerodynamic loss

by means of a new valve system

#### High level of gas tightness

thanks to the closed diaphragm surface, special sealing system, and internal block connection for the pump heads.

#### Low pulsation

#### Quiet running

#### Long product life

#### Ready for assembly

Can operate in any installed position

### Areas of use

KNF micro diaphragm pump NMP015.1.2 is used frequently in the fields of analysis and medicine.

For instance as pumps for gas measurement, for example for sampling environmental conditions in the workplace, or for exhaust gas and smoke analysis or built into machines for measuring blood pressure.

As they are dc driven, the micro diaphragm pumps are suited for use in portable, battery-operated equipment.

## PERFORMANCE DATA

Type	Delivery (l/min)	Vacuum (mbar absolute)	atm. Press.	Pressure (bar g)	Weight (g)
NMP 015.1.2 KNDC (motor with iron-free rotor, longlife)	2.1	600		0.6	60.0
NMP 015.1.2 KNDCB (brushless dc motor)	2.1	600		0.6	60.0
NMP 015.1.2 KTDC (motor with iron-free rotor, longlife)	1.4	650		0.55	60.0
NMP 015.1.2 KTDCB (brushless dc motor)	1.4	650		0.55	60.0

