

# NMP850 DC-BI SERIES MICRO DIAPHRAGM GAS PUMPS



NMP850KPDC-BI



NMP850KPDC-BI4

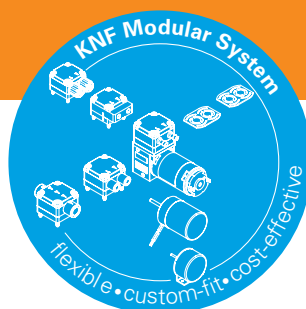
## ADVANTAGES

- Customizing available
- Tested to customers specs
- High performance to size, efficiency and weight ratio
- Excellent reliability/durability
- Speed controllable
- Low sound level
- Long service life
- Uncontaminated transfer
- Maintenance free
- High chemical resistance
- Can be installed in any position

## POSSIBLE AREAS OF USE

- Medical devices
- Analytical equipment
- Emission measurement
- Reprographic
- Degassing
- Safety/Security
- Portable devices

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## PERFORMANCE DATA

Series Model	NMP850	
Material design	KPDC-BI	KPDC-BI4
Pump head	PPS	
Diaphragm	EPDM	EPDM
Valves	EPDM	
Flow rate at atm. pressure (l/min)	4.2	4.2
Ultimate vacuum (mbar abs.)	230	230
Ultimate pressure (bar rel)	2.5	2.5
Permissible media and ambient temperature (° C/° F)	+5° C to +40° C / 41° F to 104° F (extended temperature range on request)	
Weight (g/oz)	195/6.87	

## ELECTRICAL DATA

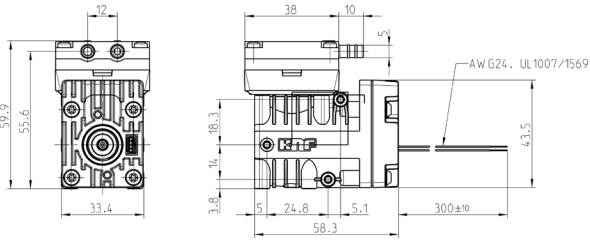
Voltage (V)	12	24	12	24
Motor	Integrated brushless DCBI, 2 wire		Integrated brushless, 4 wire	
I <sub>max</sub> (A)	0.92	0.48	0.92	0.48

# NMP850KPDC-BI

## PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP850KPDC-BI 12V	4.2	2.5	230
NMP850KPDC-BI 24V	4.2	2.5	230

## NMP850KPDC-BI



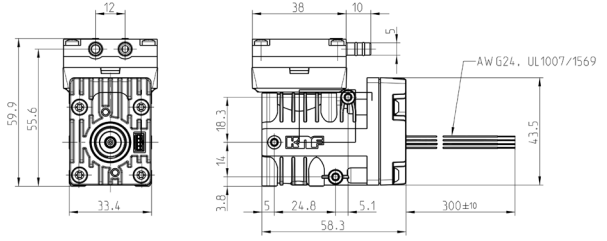
Dimensions in mm

# NMP850KPDC-BI4

## PERFORMANCE DATA

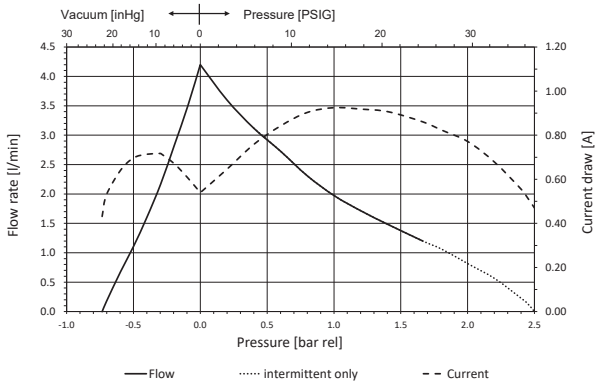
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP850KPDC-BI4 12V	4.2	2.5	230
NMP850KPDC-BI4 24V	4.2	2.5	230

## NMP850KPDC-BI4

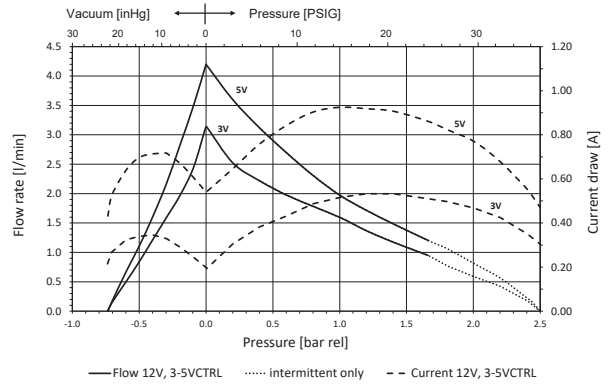


Dimensions in mm

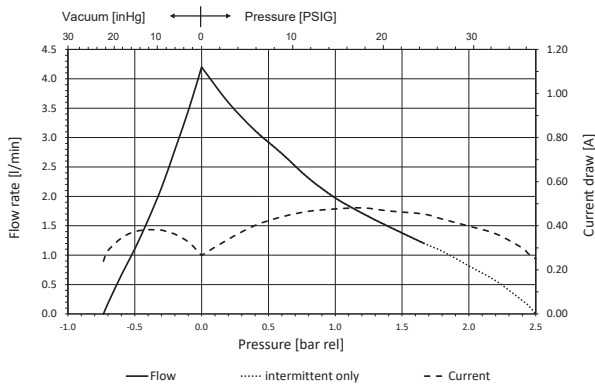
## NMP850KPDC-BI 12V FLOW CURVE



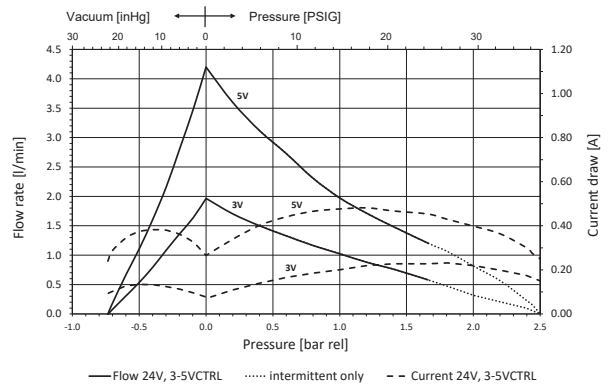
## NMP850KPDC-BI4 12V FLOW CURVE



## NMP850KPDC 24V FLOW CURVE




## NMP850KPDC-BI4 24V FLOW CURVE





## DIGITAL CUSTOMIZATION

Thanks to digital technology, this pump can be quickly adapted to the customer's system. This is done by parametrizing the firmware of the motor at KNF.

OPTIONS			
Description	Illustration	Part No.	Details
Connecting plate			DN4/6 compression fitting M5 inside thread UNF 1/4" -28 inside thread

ACCESSORIES			
Description	Illustration	Part No.	Details
Silencer		118819	For hose barbs
Silencer		314005	For DN4/6 connecting plate

SPARE PARTS			
Description	Illustration	Part No.	Details
Spare part kit for KP version		123998	One Kit per head containing vale and diaphragm. For a double head pump two kits are required.
Spare part kit for KV version		325539	One Kit per head containing vale and diaphragm. For a double head pump two kits are required.

The performance values for the series models shown on this data sheet were determined under test conditions. The actual performance values may differ and depend in particular on the usage conditions and therefore on the specific application, on the parameters of the components involved in the user's system and on any technical modifications carried out which deviate from the standard configuration or the as delivered condition.

If individual designs have been created for specific customers on the basis of series models, other technical performance data may apply. Before operation begins, the relevant operating instructions and/or assembly or installation instructions should be read and the safety information contained in these instructions should be noted. KNF reserves the right to make changes to the product and the associated documentation without prior notice to the customer.



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