

# NMP850 HP SERIES MICRO DIAPHRAGM GAS PUMPS



NMP850KPDC-BI4 HP

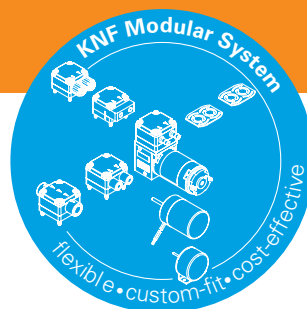
## ADVANTAGES

- Uncontaminated flow
- Customizing available
- Maintenance-free
- Long product life
- High pneumatic performance
- Compact size/high power density
- Can operate in any installed position
- FDA approved wetted material available
- High condensate resistance

## POSSIBLE AREAS OF USE

- Medical
- Reprographic
- Environment
- Security
- Food

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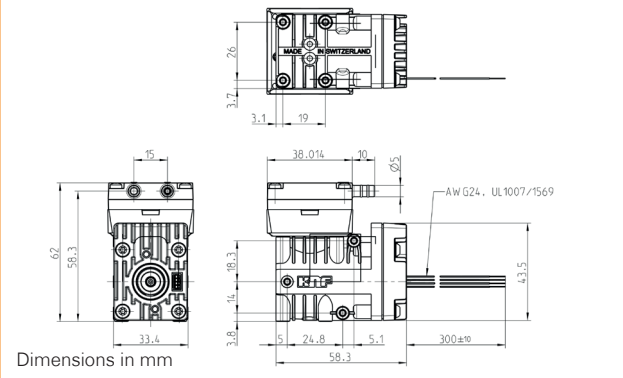
PERFORMANCE DATA		
<b>Series model</b>	<b>NMP850HP</b>	
<b>Material design</b>	<b>KPDC-BI4</b>	
Pump head	PPS	
Diaphragm	EPDM (FKM and PTFE on request)	
Valves	EPDM (FKM and FFKM on request)	
Flow rate at atm. pressure (l/min)	7	
Ultimate vacuum (mbar abs.)	220	
Ultimate pressure (bar g)	2.2	
Permissible media and ambient temperature (° C/° F)	+5° C to +40° C / 41° F to 104° F (extended temperature on request)	
Weight (g/oz)	195/6.9	
ELECTRICAL DATA		
Voltage (V)	12	24
Motor	Integrated brushless DC, 4 wire (2 wire on request)	
I <sub>max</sub> (A)	1.45	0.9

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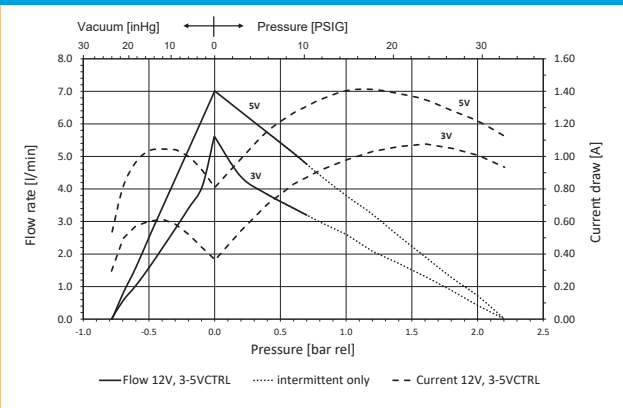
## PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP850KPDC-BI4 HP 12V	7	2.2	220
NMP850KPDC-BI4 HP 24V	7	2.2	220

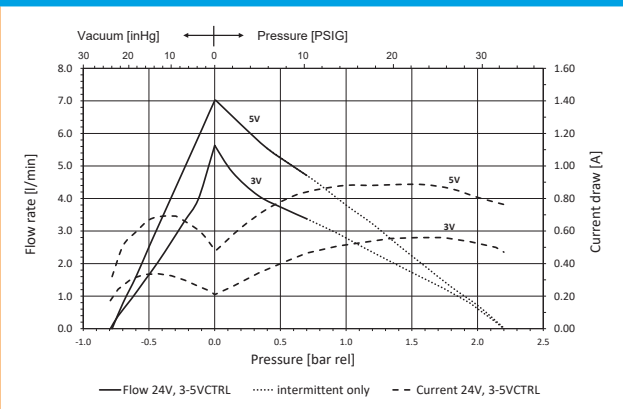
## NMP850KPDC-BI4 HP




## NMP850KPDC-BI4 HP 12V



## NMP850KPDC-BI4 HP 24V



OPTIONS			
Description	Illustration	Part No.	Details
Motors			Other motor options are available. Ask your KNF sales contact to find the best solution for you.
Connecting plate			DN4/6 connecting plate M5 inside thread UNF 1/4" - 28 inside thread
Eccentric			Other eccentricities are available to meet your operating point best.

ACCESSORIES			
Description	Illustration	Part No.	Details
Silencer		338502	For hose barbs
Silencer		314005	For DN4/6 connecting plate
Mounting plate		162405	Hole distance 43 x 22 mm. Inner diameter of the sleeve is 3.5 mm, screws are not included
Rubber-bonded metal		On request	

SPARE PARTS			
Description	Illustration	Part No.	Details
Spare part kit NMP850 KP HP NMP850 KV HP		322814 322816	One Kit per head containing valve and diaphragm. For a double head pump two kits are required.



### 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 integrated brushless motor at KNF.

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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