

NMP850 HP DOUBLE-HEAD SERIES MICRO DIAPHRAGM GAS PUMPS



NMP850.1.2KPDC-B4 HP



NMP850.3KVDC-B4 HP

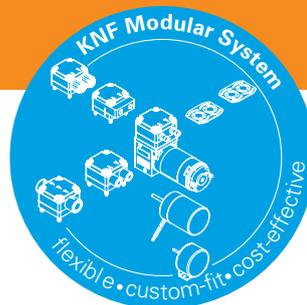
ADVANTAGES

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

POSSIBLE AREAS OF USE

- Medical
- Reprographic
- Environment
- Security
- Food

Please visit our website
www.knf.com
to get more information.



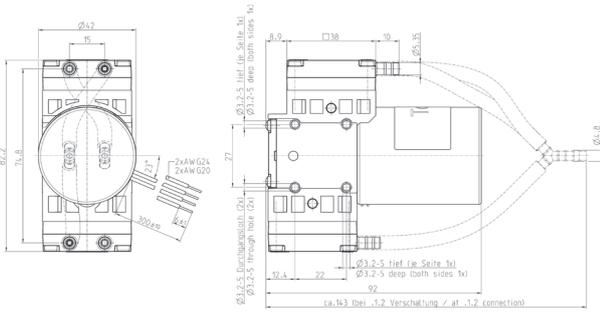
PERFORMANCE DATA						
Series model	NMP850.1.2 HP				NMP850.3 HP	
Material design	KPDC-B4		KVDC-B4		KVDC-B4	
Pump head	PPS				PPS	
Diaphragm	EPDM (FKM and PTFE on request)		FKM (EPDM and PTFE on request)		FKM (EPDM and PTFE on request)	
Valves	EPDM (FKM and FFKM on request)		FKM (EPDM and FFKM on request)		FKM (EPDM and FFKM on request)	
Flow rate at atm. pressure (l/min)	15		14		6.7	
Ultimate vacuum (mbar abs.)	220		220		50	
Ultimate pressure (bar rel)	2.2		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)	380/13.4		380/13.4		378/13.3	
ELECTRICAL DATA						
Voltage (V)	12	24	12	24	12	24
Motor	Brushless DC, 4 wires (2 wire on request)				Brushless DC, 4 wires (2 wire on request)	
I _{max} (A)	2.4	1.3	2.6	1.5	1.25	0.95

NMP850.1.2KPDC-B4 HP

PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP850.1.2KPDC-B4 HP 12V	15	2.2	220
NMP850.1.2KPDC-B4 HP 24V	15	2.2	220

NMP850.1.2KPDC-B4 HP



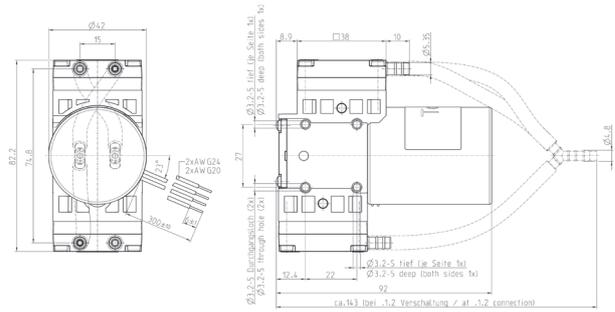
Dimensions in mm

NMP850.1.2KVDC-B4 HP

PERFORMANCE DATA

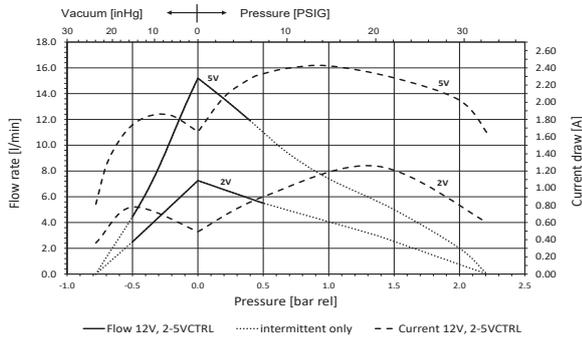
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP850.1.2KVDC-B4 HP 12V	14	2.2	220
NMP850.1.2KVDC-B4 HP 24V	14	2.2	220

NMP850.1.2KVDC-B4 HP

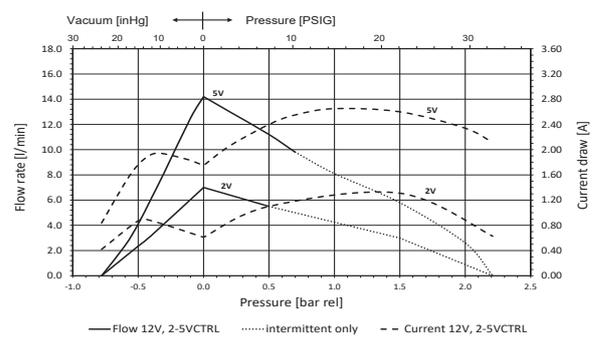


Dimensions in mm

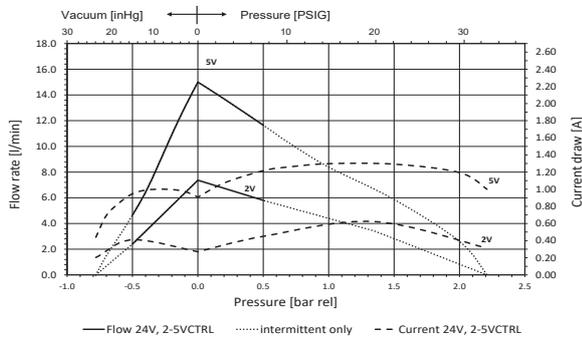
NMP850.1.2KPDC-B4 HP 12V



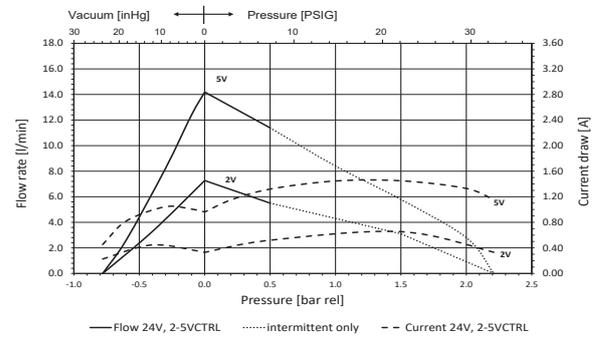
NMP850.1.2KVDC-B4 HP 12V



NMP850.1.2KPDC-B4 HP 24V



NMP850.1.2KVDC-B4 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.
Four head version			Four head version with various options of connecting the heads, up to 24 l/min flow or a vacuum lower than 10 mbar abs.

ACCESSORIES			
Description	Illustration	Part No.	Details
Silencer		338502	For hose barbs
Silencer		314005	For DN4/6 connecting plate
Silencer		338498	For Y-connector double head pump

SPARE PARTS			
Description	Illustration	Part No.	Details
Spare part kit NMP850 KP NMP850 KV		322814 322816	One Kit per head containing valve 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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KNF reserves the right to make technical changes without notice.
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