

NMP820.1.2 / .3 SERIES MICRO DIAPHRAGM GAS PUMPS



NMP820.1.2KPDC-B



NMP820.3KPDC-B

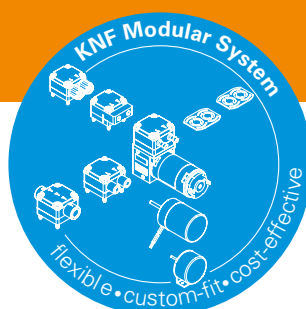
ADVANTAGES

- 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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to get more information.



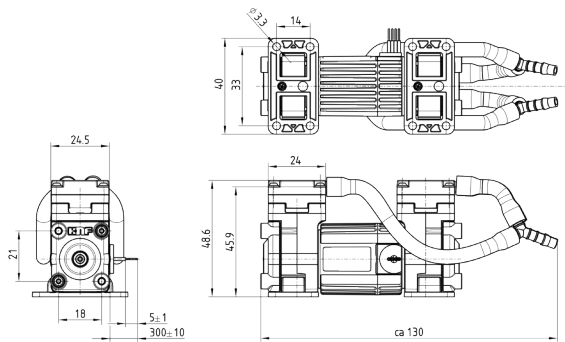
PERFORMANCE DATA						
Series Model	NMP820.1.2			NMP820.3		
Material design	KPDC-B /-B4			KPDC-B /-B4		
Pump head	PPS					
Diaphragm	EPDM					
Valves	EPDM					
Flow rate at atm. pressure (l/min)	3.5	3.5	3.5	1.7	1.7	1.7
Ultimate vacuum (mbar abs.)	330	330	330	100	100	100
Ultimate pressure (bar rel)	1.2	1.2	1.2	-	-	-
Permissible media and ambient temperature (° C / ° F)	+5° C to +40° C / 41° F to 104° F (extended temperature on request)					
Weight (g/oz)	132/4.66			124/4.37		
ELECTRICAL DATA						
Voltage (V)	6	12	24	6	12	24
Motor	Brushless DC			Brushless DC		
I _{max} (A)	1.25	0.62	0.30	0.99	0.48	0.29

NMP820.1.2KPDC-B/-B4

PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP820.1.2KPDC-B 6V	3.5	1.2	330
NMP820.1.2KPDC-B4 6V	3.5	1.2	330

NMP820.1.2KPDC-B/-B4



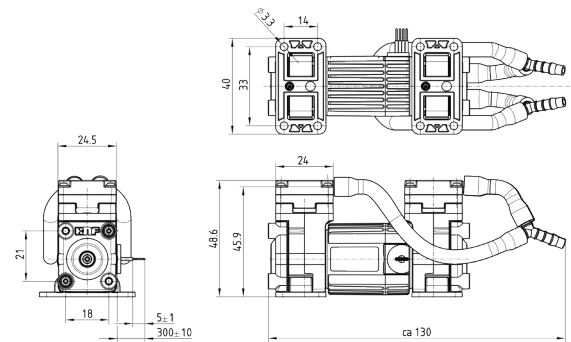
Dimensions in mm

NMP820.1.2KPDC-B/-B4

PERFORMANCE DATA

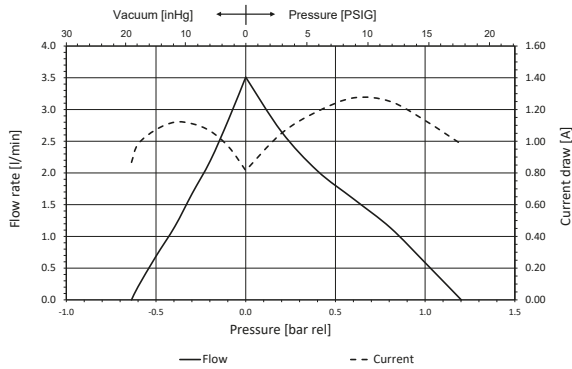
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP820.1.2KPDC-B 12V	3.5	1.2	330
NMP820.1.2KPDC-B4 12V	3.5	1.2	330

NMP820.1.2KPDC-B/-B4

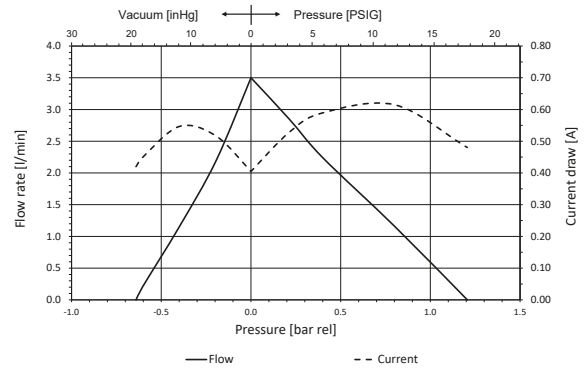


Dimensions in mm

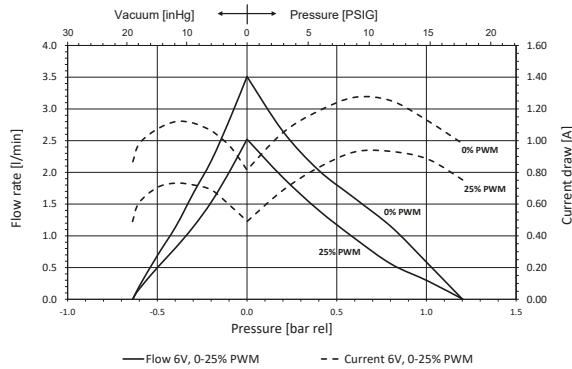
NMP820.1.2KPDC-B 6V FLOW CURVE



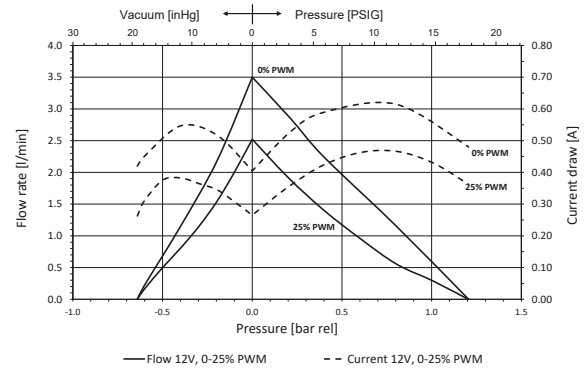
NMP820.1.2KPDC-B 12V FLOW CURVE



NMP820.1.2KPDC-B4 6V FLOW CURVE



NMP820.1.2KPDC-B4 12V FLOW CURVE

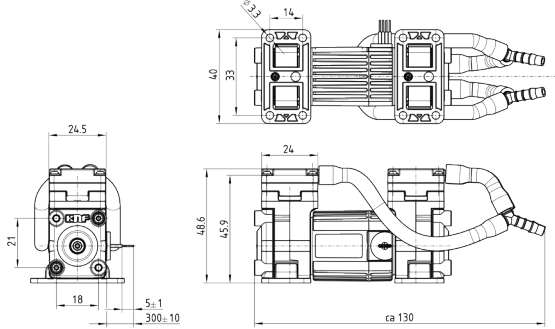


NMP820.1.2KPDC-B/-B4

PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP820.1.2KPDC-B 24V	3.5	1.2	330
NMP820.1.2KPDC-B4 24V	3.5	1.2	330

NMP820.1.2KPDC-B/-B4



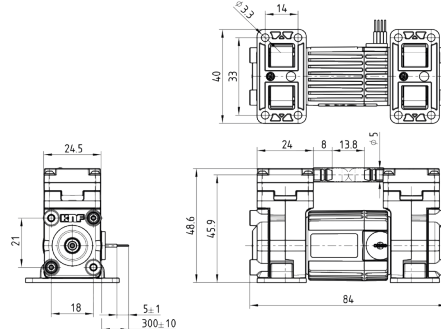
Dimensions in mm

NMP820.3KPDC-B/-B4

PERFORMANCE DATA

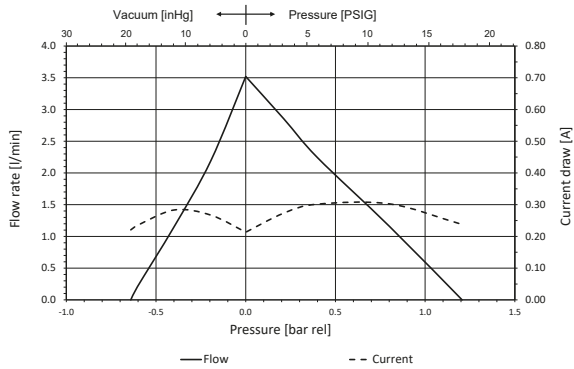
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP820.3KPDC-B 6V	1.7	-	100
NMP820.3KPDC-B4 6V	1.7	-	100

NMP820.3KPDC-B/-B4

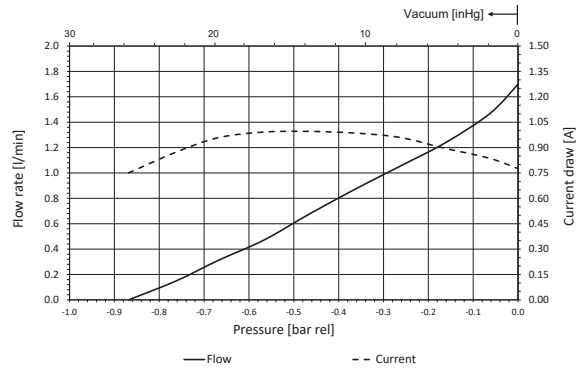


Dimensions in mm

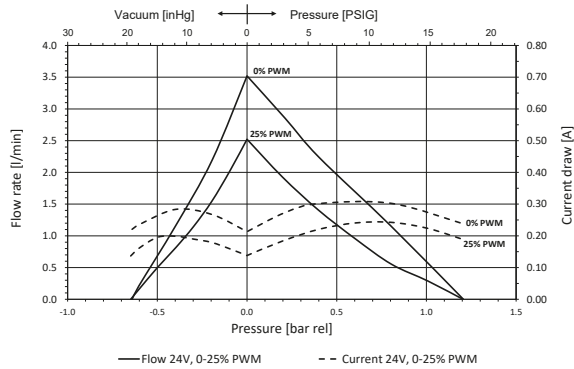
NMP820.1.2KPDC-B 24V FLOW CURVE



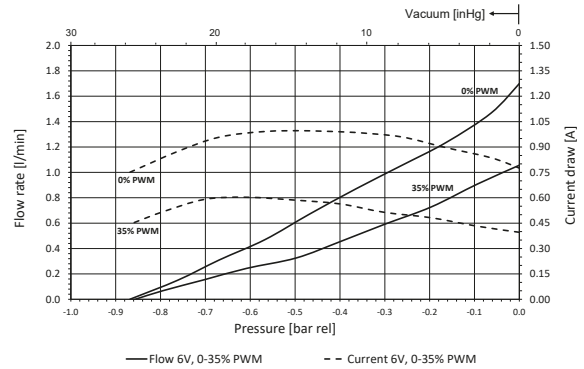
NMP820.3KPDC-B 6V FLOW CURVE



NMP820.1.2KPDC-B4 24V FLOW CURVE



NMP820.3KPDC-B4 6V FLOW CURVE

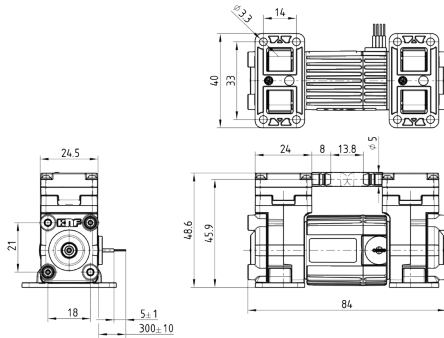


NMP820.3KPDC-B/-B4

PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP820.3KPDC-B 12V	1.7	-	100
NMP820.3KPDC-B4 12V	1.7	-	100

NMP820.3KPDC-B/-B4



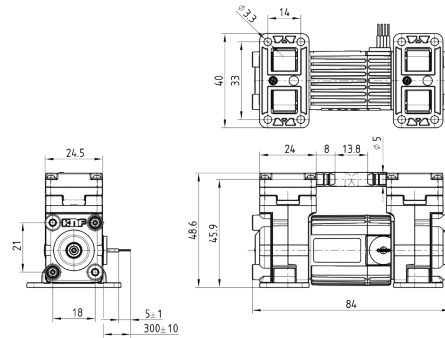
Dimensions in mm

NMP820.3KPDC-B/-B4

PERFORMANCE DATA

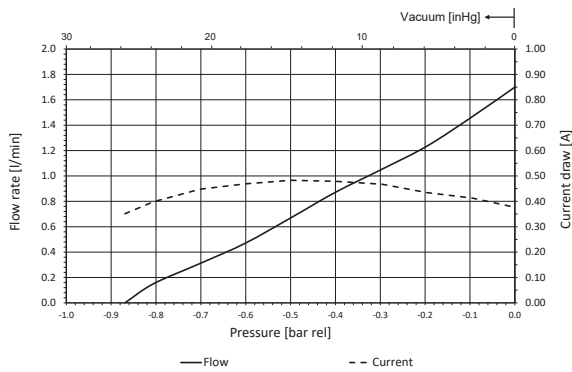
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP820.3KPDC-B 24V	1.7	-	100
NMP820.3KPDC-B4 24V	1.7	-	100

NMP820.3KPDC-B/-B4

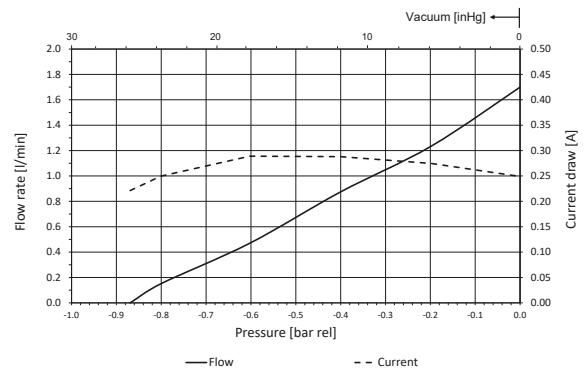


Dimensions in mm

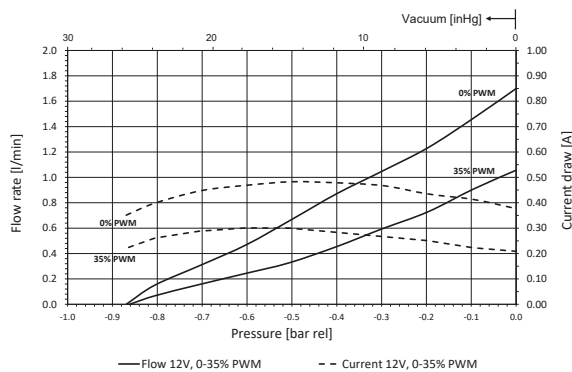
NMP820.3KPDC-B 12V FLOW CURVE



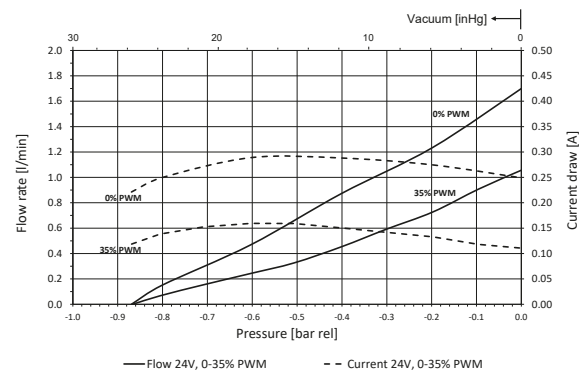
NMP820.3KPDC-B 24V FLOW CURVE




NMP820.3KPDC-B4 12V FLOW CURVE




NMP820.3KPDC-B4 24V FLOW CURVE



OPTIONS			
Description	Illustration	Part No.	Details
Eccentric			Other eccentricities are available to meet your operating point best.

ACCESSORIES			
Description	Illustration	Part No.	Details
Silencer		338498	For Y-connector double head pump
Rubber-bonded metal		On request	

SPARE PARTS			
Description	Illustration	Part No.	Details
Spare part kit NMP820KP NMP820KT NMP820KV		345996 345997 345998	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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