

# NMP015 SERIES MICRO DIAPHRAGM GAS PUMPS



NMP015KPDC-S



NMP015KPDC-L



NMP015KPDC-B

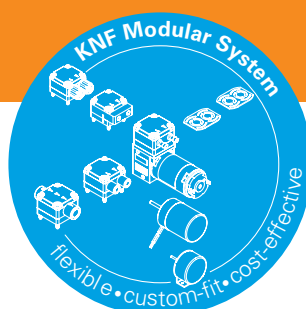
## ADVANTAGES

- 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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## PERFORMANCE DATA

Series Model	NMP015							
Material design	KPDC-S		KPDC-M		KPDC-L		KPDC-B	
Pump head	PPS							
Diaphragm	EPDM (PTFE on request)							
Valves	EPDM (FFKM on request)							
Flow rate at atm. pressure (l/min)	1.4	1.3	1.5	1.6	1.4	1.3	1.3	
Ultimate vacuum (mbar abs.)	450	450	400	400	400	400	400	
Ultimate pressure (bar rel)	0.85	0.85	0.9	0.9	0.9	0.9	0.9	
Permissible media and ambient temperature (° C/° F)	+5° C to +40° C / 41° F to 104° F (extended temperature on request)							
Weight (g/oz)	44/1.55		63/2.22		47/1.66		55/1.94	

## ELECTRICAL DATA

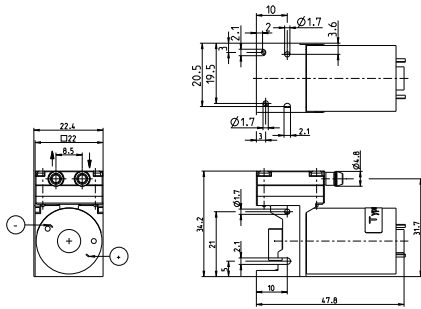
Voltage (V)	3.5	6	6	12	6	6	12
Motor	DC		DC		DC		Brushless DC
I <sub>max</sub> (A)	0.53	0.32	0.39	0.21	0.29	0.31	0.17

# NMP015KPDC-S

## PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP015KPDC-S 3.5V	1.4	0.85	450
NMP015KPDC-S 6V	1.3	0.85	450

## NMP015KPDC-S



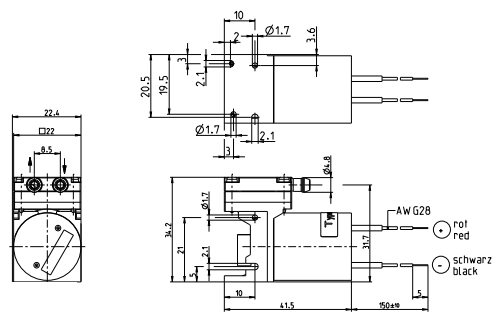
Dimensions in mm

# NMP015KPDC-M

## PERFORMANCE DATA

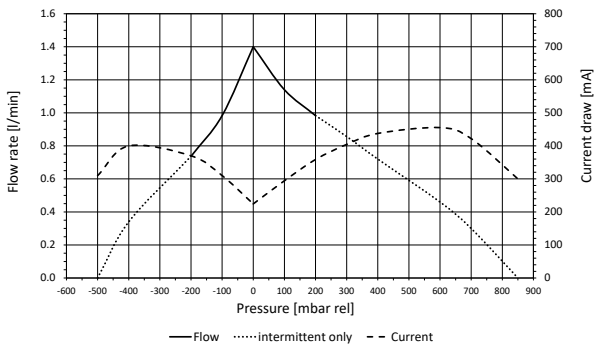
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP015KPDC-M 6V	1.5	0.9	400
NMP015KPDC-M 12V	1.6	0.9	400

## NMP015KPDC-M

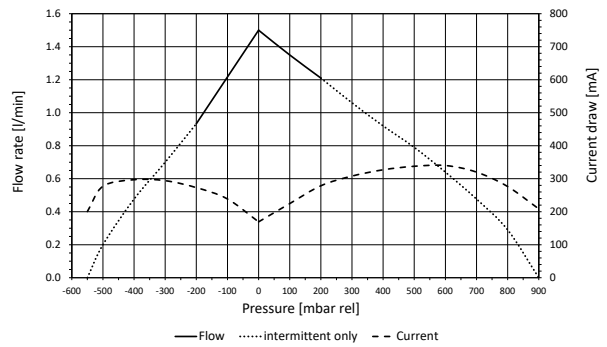


Dimensions in mm

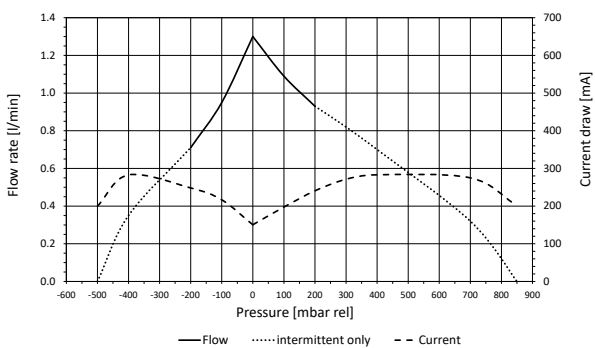
## NMP015KPDC-S 3.5V FLOW CURVE



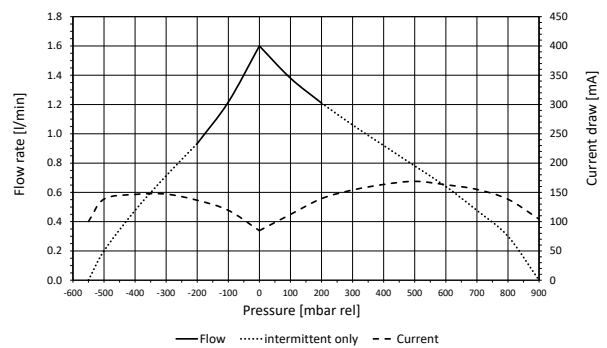
## NMP015KPDC-M 6V FLOW CURVE



## NMP015KPDC-S 6V FLOW CURVE



## NMP015KPDC-M 12V FLOW CURVE

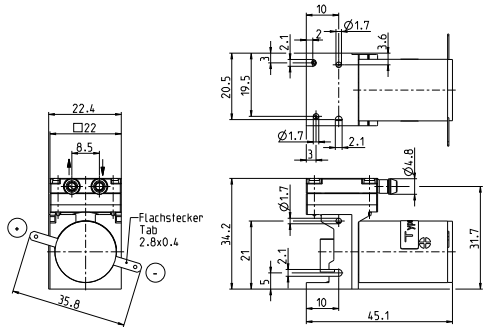


# NMP015KPDC-L

## PERFORMANCE DATA

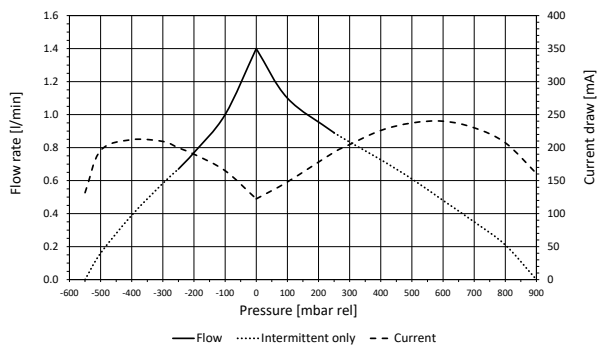
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP015KPDC-L 6V	1.4	0.9	400

## NMP015KPDC-L



Dimensions in mm

## NMP015KPDC-L 6V FLOW CURVE

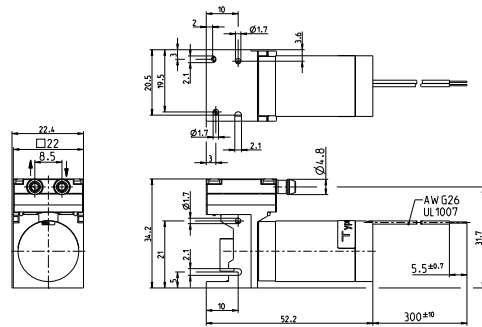


# NMP015KPDC-B

## PERFORMANCE DATA

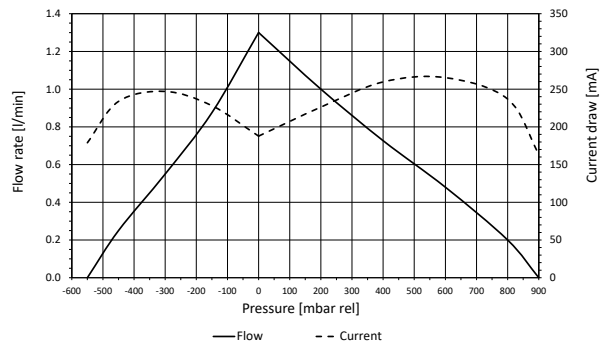
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP015KPDC-B 6V	1.3	0.9	400
NMP015KPDC-B 12V	1.3	0.9	400

## NMP015KPDC-B

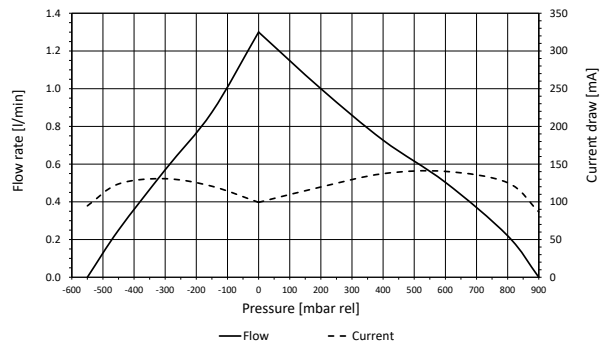





Dimensions in mm

## NMP015KPDC-B 6V FLOW CURVE



## NMP015KPDC-B 12V FLOW CURVE



OPTIONS			
Description	Illustration	Part No.	Details
Motors		On request	Other motors and voltages on request.
Eccentric		On request	Different eccentricities on request.
Housing cover		On request	Project pumps only.

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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