

# NMP05 SERIES MICRO DIAPHRAGM GAS PUMPS



NMP05KPDC-S



NMP05KPDC-M



NMP05KPDC-L

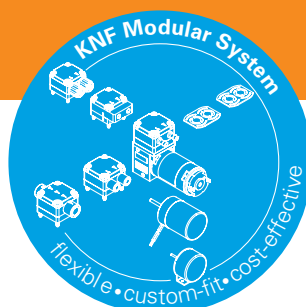
## ADVANTAGES

- 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	NMP05					
Material design	KPDC-S		KPDC-M		KPDC-L	KPDC-B
Pump head	PPS					
Diaphragm	EPDM					
Valves	EPDM					
Flow rate at atm. pressure (l/min)	0.25	0.4	0.4	0.3	0.45	0.4
Ultimate vacuum (mbar abs.)	600	600	600	600	550	500
Ultimate pressure (bar rel)	0.35	0.4	0.3	0.3	0.4	0.45
Permissible media and ambient temperature (°C/°F)	+5° C to +40° C / 41° F to 104° F (extended temperature on request)					
Weight (g/oz)	15/0.53	18/0.63	17/0.60	20/0.71	26/0.92	22/0.78

## ELECTRICAL DATA

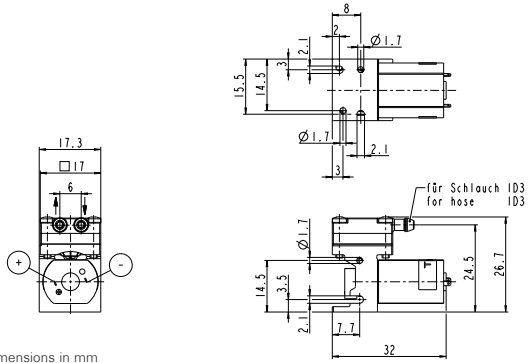
Voltage (V)	3	5	2.5	6	6	6
Motor	DC		DC		DC	Brushless DC
I <sub>max</sub> (A)	0.12	0.14	0.11	0.055	0.09	0.12

# NMP05KPDC-S

## PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP05KPDC-S 3V	0.25	0.35	600
NMP05KPDC-S 5V	0.4	0.4	600

## NMP05KPDC-S



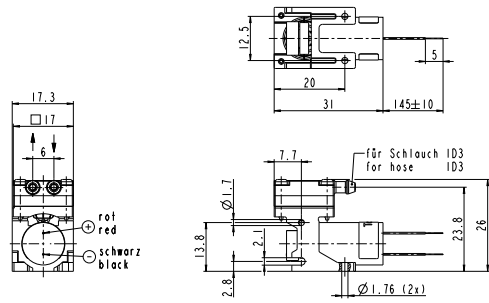
Dimensions in mm

# NMP05KPDC-M

## PERFORMANCE DATA

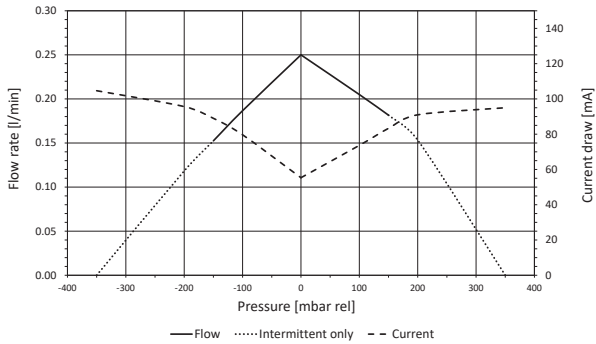
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP05KPDC-M 2.5V	0.4	0.3	600
NMP05KPDC-M 6V	0.3	0.3	600

## NMP05KPDC-M

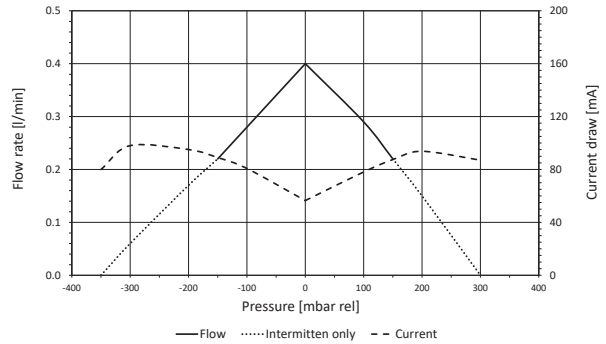


Dimensions in mm

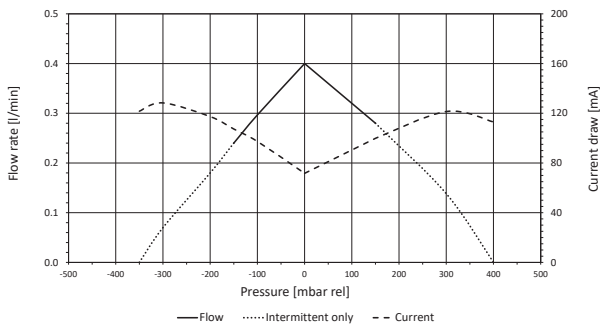
## NMP05KPDC-S 3V FLOW CURVE



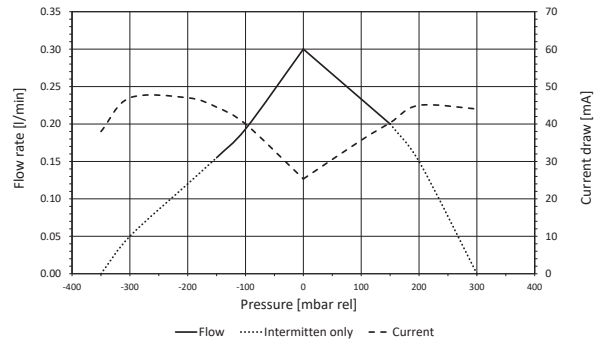
## NMP05KPDC-M 2.5V FLOW CURVE



## NMP05KPDC-S 5V FLOW CURVE



## NMP05KPDC-M 6V FLOW CURVE

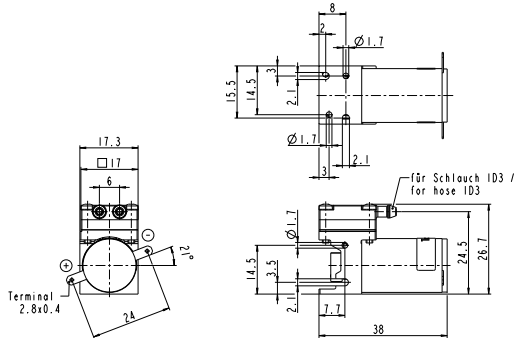


# NMP05KPDC-L

## PERFORMANCE DATA

Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP05KPDC-L 6V	0.45	0.4	550

## NMP05KPDC-L



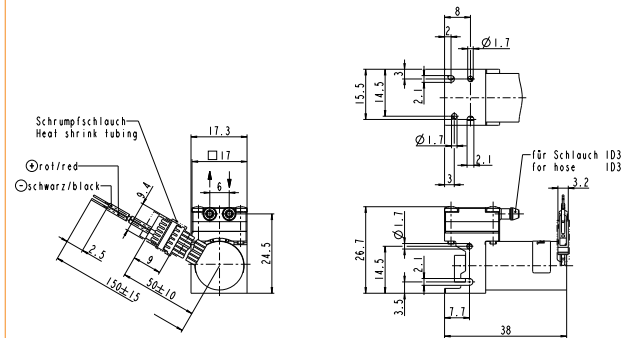
Dimensions in mm

# NMP05KPDC-B

## PERFORMANCE DATA

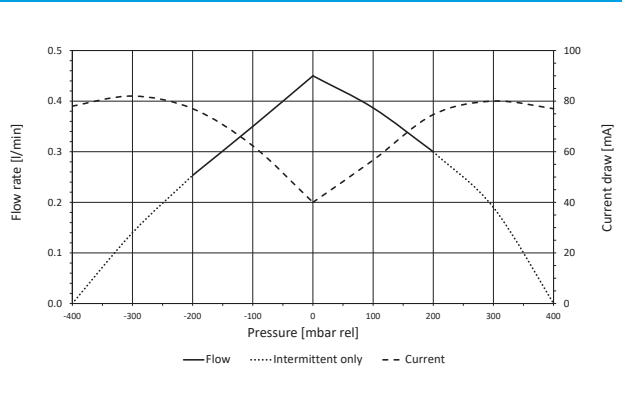
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NMP05KPDC-B 6V	0.4	0.45	500

## NMP05KPDC-B

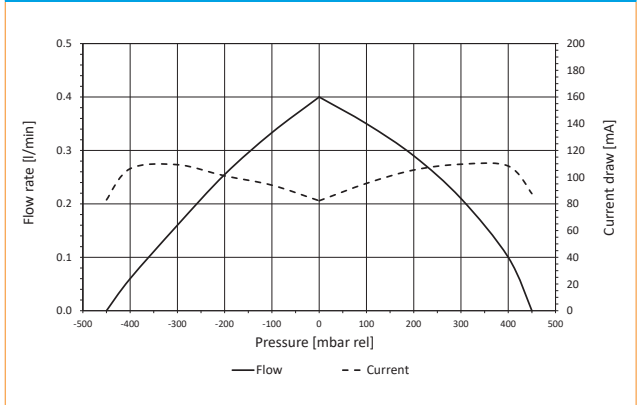



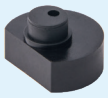
Dimensions in mm

## NMP05KPDC-L 6V FLOW CURVE



## NMP05KPDC-B 6V FLOW CURVE



OPTIONS			
Description	Illustration	Part No.	Details
Motors		On request	Other motors and voltages on request.
Eccentric		On request	Different eccentricities on request.

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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