

# NP40 SERIES

SMOOTH FLOW PUMPS DESIGNED FOR PRECISE AND STABLE GAS DELIVERY



NP40KPDC VA



NP40KPDC-BI4 VA



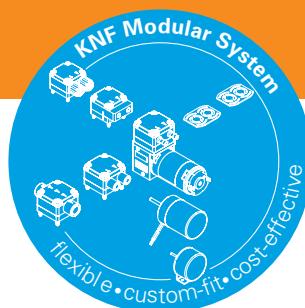
## ADVANTAGES

- Pumps with low pulsation for a smooth and consistent flow
- Customizing available
- Tested to customers specs
- High reliability
- Excellent size to performance ratio
- Low vibration
- Uncontaminated transfer
- Long service life
- Maintenance-free

## POSSIBLE AREAS OF USE

- Medical devices
- Analytical equipment
- Emission measurement
- Reprographic
- Safety/Security
- Food Industry

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 to get more information.



## PERFORMANCE DATA

Series Model	NP40			
Material design	KPDC VA	KPDC-BI4 VA		
Pump head	PPS			
Diaphragm	EPDM			
Valves / Sealing	EPDM			
Flow rate at atm. pressure (l/min)	3.7	3.7		
Ultimate vacuum (mbar abs.)	210	210		
Pulsation (mbar)	18 (-93% compared to the version without an integrated damping chamber)			
Permissible media and ambient temperature (°C / °F)	+5° C to +40° C / 41° F to 104° F (extended temperature on request)			
Weight (g/oz)	214 / 7.55	208 / 7.34		
ELECTRICAL DATA				
Voltage (V)	12	24	12	24
Motor	DC		Integrated brushless DC	
I <sub>max</sub> (A)	0.59	0.29	0.68	0.37

# NP40KPDC VA

## PERFORMANCE DATA

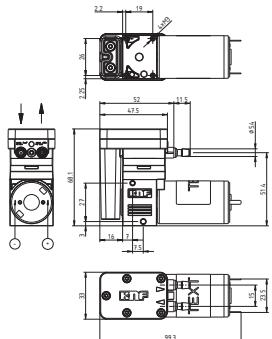
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NP40KPDC VA 12V	3.7	-	210
NP40KPDC VA 24V	3.7	-	210

# NP40KPDC-BI4 VA

## PERFORMANCE DATA

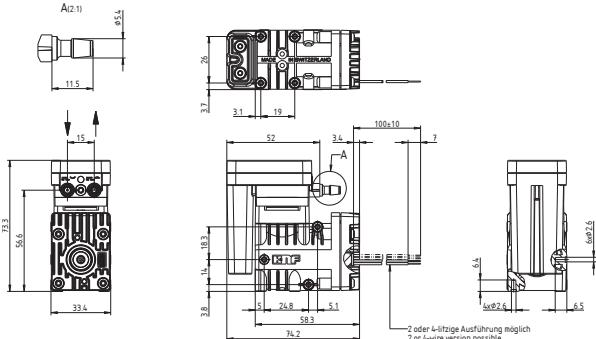
Series model	Flow rate at atm. pressure (l/min)	Max. operating pressure (bar rel)	Ultimate vacuum (mbar abs.)
NP40KPDC-BI4 VA 12V	3.7	-	210
NP40KPDC-BI4 VA 24V	3.7	-	210

## NP40KPDC VA



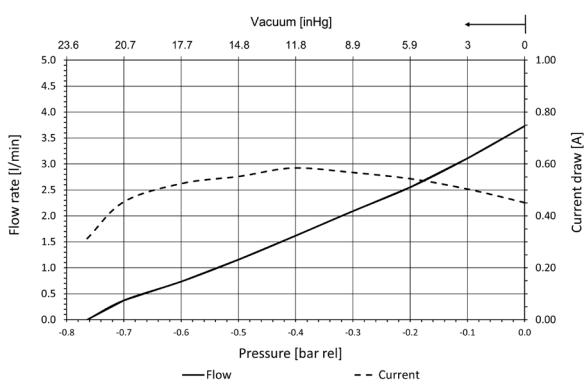
Dimensions in mm

## NP40KPDC-BI4 VA

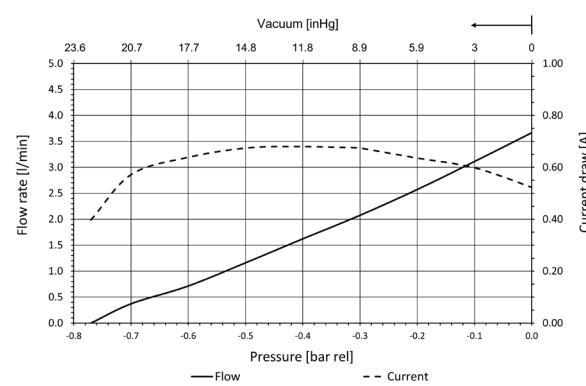


Dimensions in mm

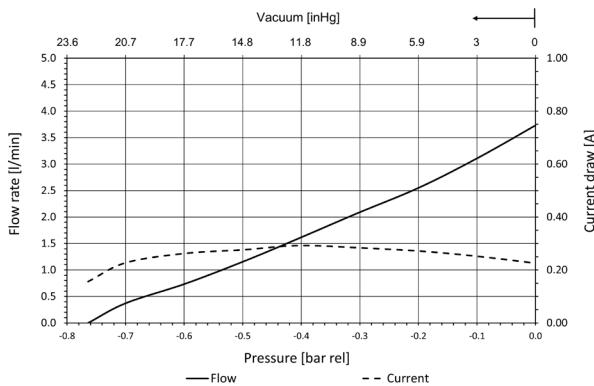
## NP40KPDC VA 12V FLOW CURVE



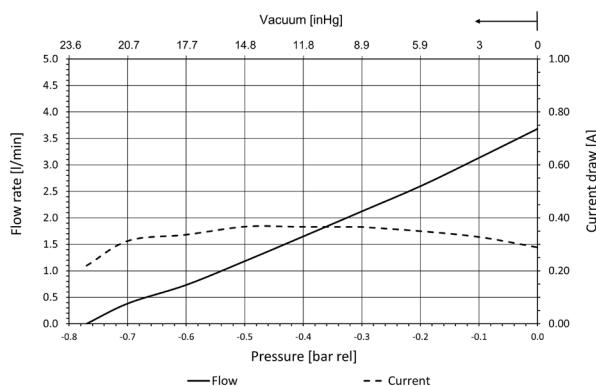
## NP40KPDC-BI4 VA 12V FLOW CURVE



## NP40KPDC VA 24V FLOW CURVE



## NP40KPDC-BI4 VA 24V FLOW CURVE



## OPTIONS

Description	Illustration	Part No.	Details
Motors		on request	Other motor options are available. Ask your KNF sales contact to find the best solution for you.
Eccentric		on request	Other eccentricities are available to meet your operating point best.

## ACCESSORIES

Description	Illustration	Part No.	Details
Silencer		338502	For hose barbs
Mounting plate		164313	Hole distance 43 x 22 mm. Inner diameter of the sleeve is 3.5 mm, screws are included.
Robber-bonded metal		On request	

## SPARE PARTS

Description	Illustration	Part No.	Details
Spare part kit NP40KP		On request	One kit per head containing valve and diaphragm.



### 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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