NF 1.10
DIAPHRAGM LIQUID PUMP

NF 1.10 RPDCB-4

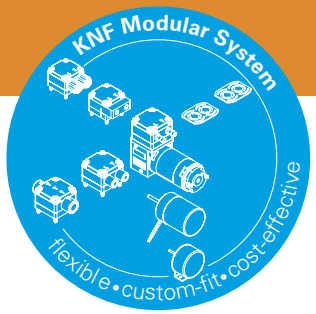
ADVANTAGES

- Self priming and excellent for pressure
- Extreme chemical resistance
- Dry running, durable and maintenance free

POSSIBLE AREAS OF USE

- Analysers
- Laboratory
- Cleaning industry
- Printing

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



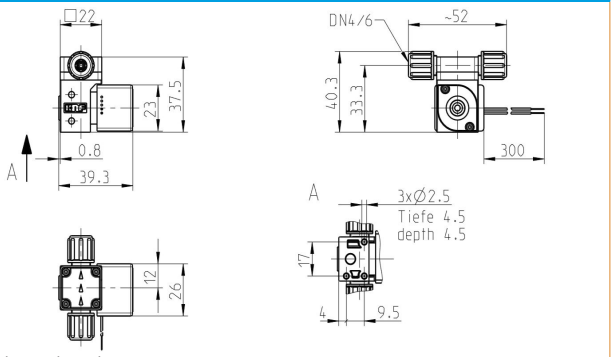
PERFORMANCE DATA		
Series model	**NF 1.10 DCB**	**NF 1.10 DCB-4**
Material options	**RP**	**RT**
Pump head	PPS	PPS
Diaphragm	EPDM	PTFE
Valves	EPDM	FFKM
Resonating diaphragm	EPDM	FFKM
Flow rate at atm. pressure (ml/min)	140	120
Suction height (mH_2O)	3	2.5
Pressure head (mH_2O)	60	
Permissible ambient temperature (°C)	+5 to +40	
Permissible liquid temperature (°C)	+5 to +80	
Weight (g)	65	
IP protection factor	40	
ELECTRICAL DATA		
Operating voltage (V)	12/24	10-26.4
Power consumption (W)	3.1/3.6	3.2
I load max. (A)	0.26/0.15	0.23-0.12

NF 1.10 DCB

PERFORMANCE DATA

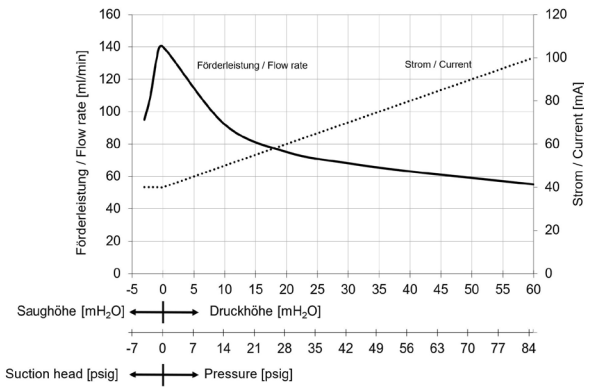
Series model	Flow rate at atm. pressure (ml/min)	Max. suction height (mH_2O)	Max. pressure head (mH_2O)
NF 1.10 DCB	140	3.0	60

NF 1.10 DCB



Dimensions in mm

NF 1.10 DCB FLOW CURVE



ELECTRIC SPECIFICATIONS

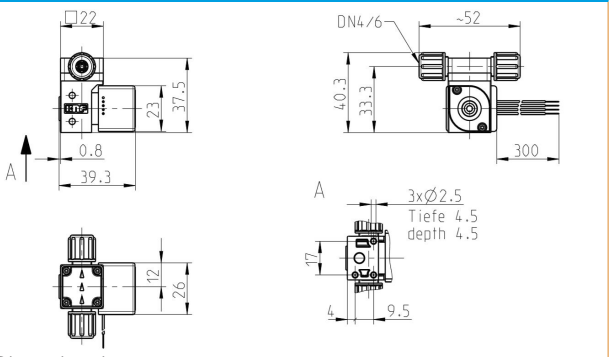
Wires	AWG 28
Wires assignment	red = +VS black = - VS/GND

NF 1.10 DCB-4

PERFORMANCE DATA

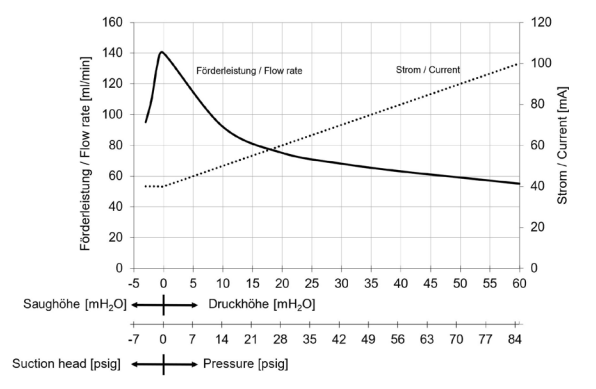
Series model	Flow rate at atm. pressure (ml/min)	Max. suction height (mH_2O)	Max. pressure head (mH_2O)
NF 1.10 DCB-4	120	2.5	60

NF 1.10 DCB-4

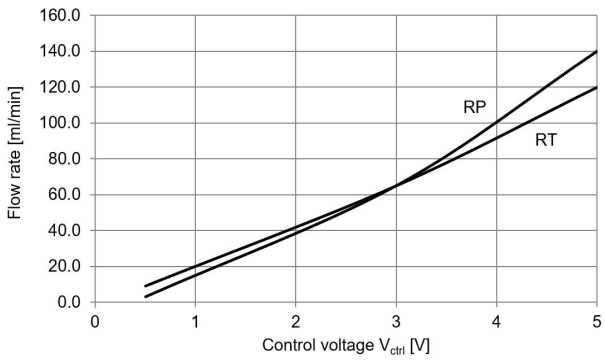


Dimensions in mm

NF 1.10 DCB-4 FLOW CURVE



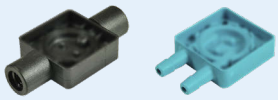
NF 1.10 DCB-4 CONTROL CURVE



ELECTRIC SPECIFICATIONS

Wires	AWG 28
Wires assignment	red = +VS black = - VS/GND white = Vctrl-input green = FG-output
Input signal	0-5 V

OPTIONS

Description	Illustration	Details
Motors with special voltages or frequencies		
Electrical connectors		Specific customers requirements such as special connections (Molex, AMP, etc.)
Different hydraulic connection types and other head materials		

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 motor at KNF.

ACCESSORIES

Description	Illustration	Details
Fastening elements		
Diaphragm pressure control valve		The pressure control valve can be used for a more accurate control of flow against a fluctuating back pressure, metering into a vacuum and from a pressurised system.
Pulsation damper		This very versatile pulsation damper reduces the vibration in hoses and pipes and it helps to remove pulsation which is preventing the system from functioning correctly.
Filter		KNF filters protect both pumps and other upstream instrumentation and hydraulic circuits against particulate, crystals and fibres which can improve optimum operation.

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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