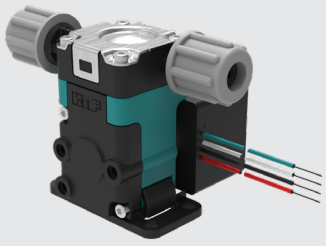
FF 1.12
DIAPHRAGM LIQUID PUMP



FF 1.12 DCB-4

ADVANTAGES

- High pressure up to 60 mH_2O
- Good controllability of the flow rate
- Mounting plate with click-on mechanism
- Self-priming and dry-run proof
- Clean and gentle transfer of sensitive media
- Durable and maintenance-free
- Resistant materials for delivering aggressive media

POSSIBLE AREAS OF USE

- Medical technology
- Laboratory technology
- Inkjet printing
- Fuel cells
- Semiconductor industry
- Cleaning industry
- And many more

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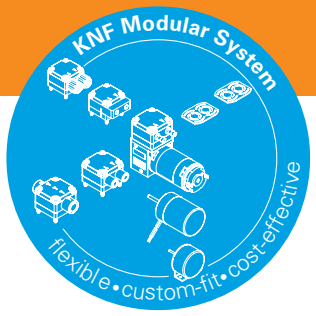


PERFORMANCE DATA		
Series model	**FF 1.12**	
Material options	**RP**	**RT**
Pump head	PPS	PPS
Diaphragm	EPDM	PTFE
Resonating diaphragm	EPDM	FFKM
Valves	EPDM	FFKM
Flow rate (ml/min)	130	150
Suction height (mH_2O)	3	2.5
Pressure head (mH_2O)	60	
Permissible ambient air (°C)	-5 to 60	
Permissible liquid temperature (°C)	5 to 80	
Weight (g)	60	
IP protection factor	40	
ELECTRICAL DATA		
Drive options	**DCB***	**DCB-4***
Operating voltage (V)	12 / 24	10.8 – 26.4
Power consumption (W)	3.5 / 4.5	4.8
I load max. (A)	0.3 / 0.19	0.29 – 0.18

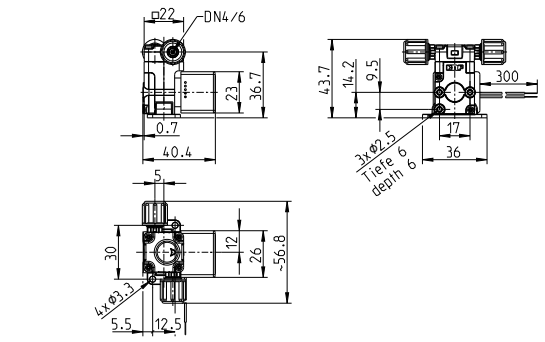
* DCB = Stands for brushless DC motor

FF 1.12 DCB

PERFORMANCE DATA

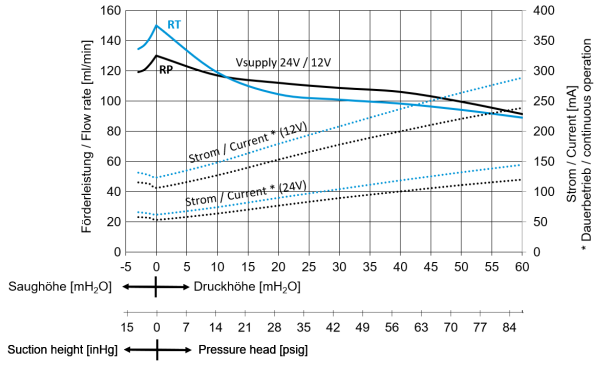
Series model	Flow rate at atm. pressure (ml/min)	Max. suction height (mH_2O)	Max. pressure head (mH_2O)
FF 1.12 RP DCB	130	3	60
FF 1.12 RT DCB	150	2.5	60

FF 1.12 DCB



Dimensions in mm

FF 1.12 DCB



ELECTRONIC SPECIFICATIONS FF 1.12 DCB

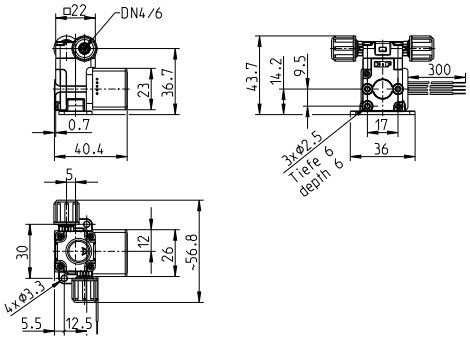
Wires	AWG 28
Wire assignment	red: + supply voltage black: - supply voltage

FF 1.12 DCB-4

PERFORMANCE DATA

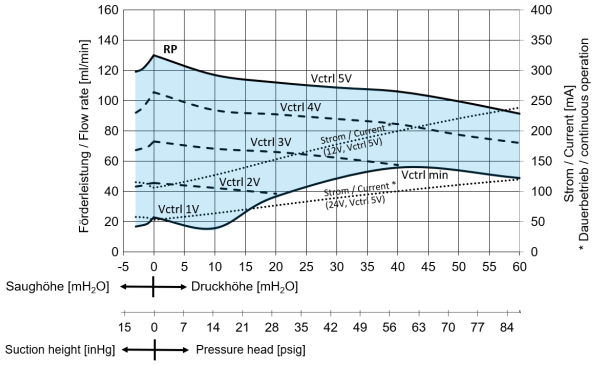
Series model	Flow rate at atm. pressure (ml/min)	Max. suction height (mH_2O)	Max. pressure head (mH_2O)
FF 1.12 RP DCB-4	130	3	60
FF 1.12 RT DCB-4	150	2.5	60

FF 1.12 DCB-4

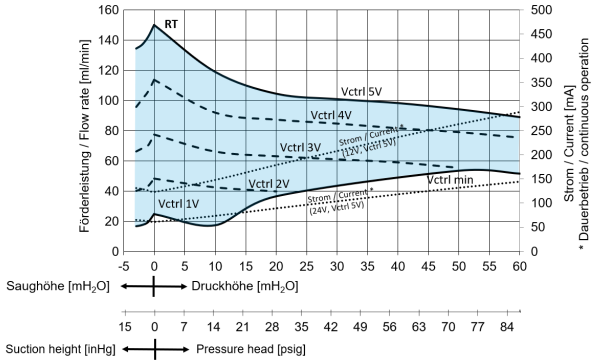


Dimensions in mm

FF 1.12 DCB-4 RP



FF 1.12 DCB-4 RT



ELECTRONIC SPECIFICATIONS FF 1.12 DCB-4

Wires	AWG 28
Wire assignment	red: + supply voltage black: - supply voltage white: control voltage green: rpm output
Input signal	0-5 V

OPTIONS

Description	Illustration	Details
Motors		Various voltage options, higher and lower service life
Electrical connections		Molex, AMP etc.
Hydraulic connections		External thread DN 4/6, Hose connector etc.

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
Mounting plate		Screws included in the set Alternate Clip with NF 10/1.10 hole pattern
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.
Tubing		Various diameters and materials

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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