

## N 938 SERIE **VACUUM PUMPS**





#### **ADVANTAGES**

- High pumping speed over
- Robust and compact
- Readout of pump parameters

**PERFORMANCE DATA** 

Series model

Pump head

Diaphragm

Weight (kg/lbs)

Voltage (V)

Power P<sub>1</sub> (W)

Motor

 $I_{max}$  (A)

**ELECTRICAL DATA** 

Protection class motor

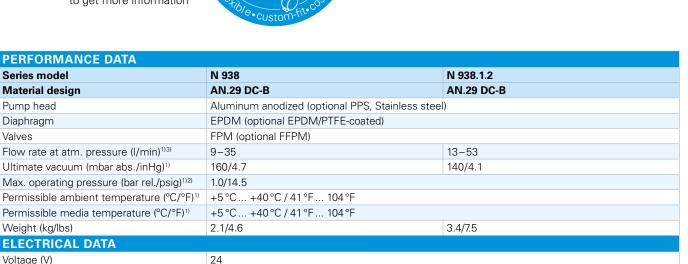
Valves

Material design

### POSSIBLE AREAS OF USE

- Measurement technology -

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



94

3.85

1) expanded performance available upon request

IP 20

82

3.4

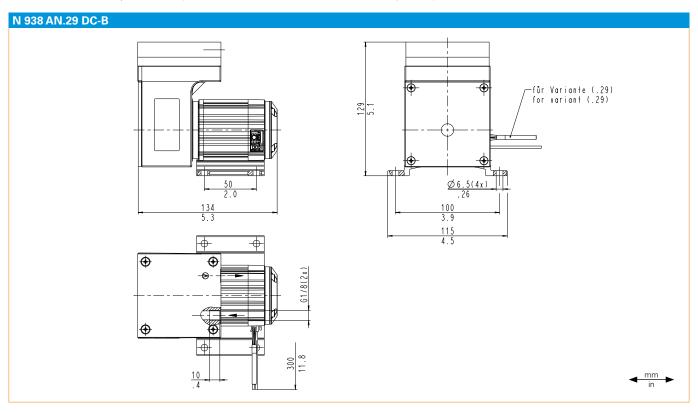
Brushless DC motor

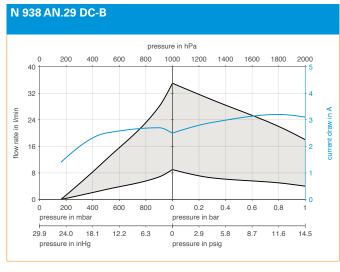
<sup>&</sup>lt;sup>2)</sup> bar rel relative to 1013 hPa <sup>3)</sup> Flow rate determined at 20 °C, 1000 mbar abs. (Pressure 0 to 1000 mbar abs. in accordance with ISO 21360/ISO 8778)

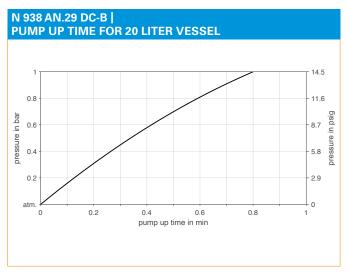
# N 938 AN.29 DC-B

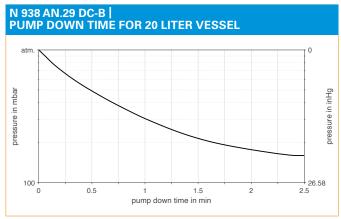
| <b>PERFORMANCE DATA</b> |  |   |                                  |
|-------------------------|--|---|----------------------------------|
| Series model            | Flow rate<br>at atm. pressure<br>(I/min) <sup>3)</sup> | Max. operating pressure (bar rel./psig) <sup>2)</sup> | Ultimate vacuum (mbar abs./inHg) |
| N 938 AN.29 DC-B        | 9-35   | 1.0/14.5  | 160/4.7                          |

 $<sup>^{2}</sup>$  bar rel relative to 1013 hPa  $^{3}$  Flow rate determined at 20 °C, 1000 mbar abs. (Pressure 0 to 1000 mbar abs. in accordance with ISO 21360/ISO 8778)





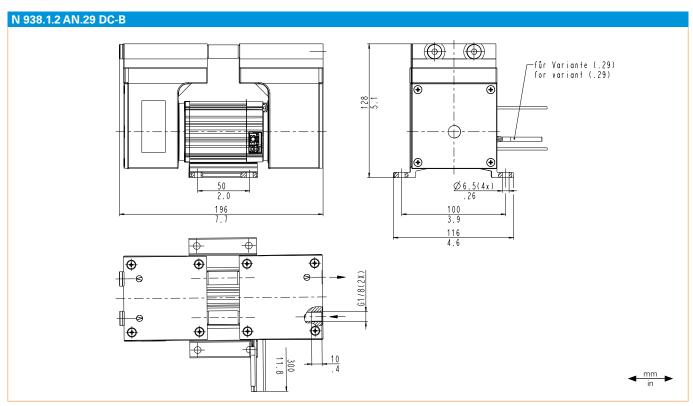


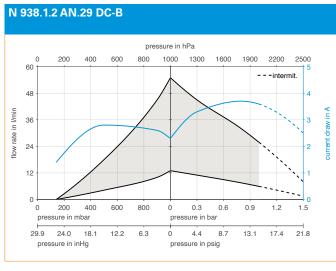


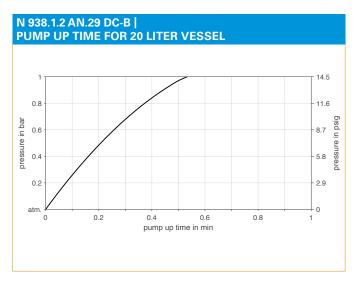
# N 938.1.2 AN.29 DC-B

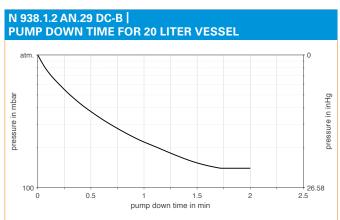
| <b>PERFORMANCE DATA</b> |  |   |                                  |
|-------------------------|--|---|----------------------------------|
| Series model            | Flow rate<br>at atm. pressure<br>(I/min) <sup>3)</sup> | Max. operating pressure (bar rel./psig) <sup>2)</sup> | Ultimate vacuum (mbar abs./inHg) |
| N 938.1.2 AN.29 DC-B    | 13-53  | 1.0/14.5  | 140/4.1                          |

 $<sup>^{2</sup>l}$  bar rel relative to 1013 hPa  $^{3l}$  Flow rate determined at 20 °C, 1000 mbar abs. (Pressure 0 to 1000 mbar abs. in accordance with ISO 21360/ISO 8778)











#### **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.

| Description  | Illustration | Part No. | Details   |
|--|--------------|----------|---|
| Silencer/Inlet filter  |              | 007006   | G 1/8   |
| Hose connector (straight)  |              | 004975   | G 1/8, PA, inner diameter 8 mm                              |
| Vibration damping<br>(4 pieces necessary per pump,<br>for use with motor mounting plate)                               |              | 014114   | D 20x15mm, 2x M6x10mm<br>outside thread                     |
| Vibration damping for N 938.1.2<br>(4 pieces necessary per pump,<br>use for direct mounting without mounting<br>plate) |              | 124782   | D 15x15mm, M4x6mm<br>outside thread/M4x6mm inside<br>thread |

| Description               | Illustration | Part No. | Details  |
|---------------------------|--------------|----------|--|
| Spare parts kit N 938     |              | 342833   | Spare parts kit consists of: 1x zone diaphragm, 2x valve plate. This set is required to maintain the pump.             |
| Spare parts kit N 938.1.2 |              | 342834   | Spare parts kit consists of:<br>2x zone diaphragm,<br>4x valve plate.<br>This set is required to maintain<br>the pump. |

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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