

Boxer Pumps > Products > Liquid Diaphragm Pump

16K liquid diaphragm pump with BLDC Motor.



Technical Data

·
170 ml/min
170 ml/min 4.0 m H₂O
4.0 m H ₂ O
12 to 24 V DC
1.2 to 4.0 W
1.5 A
1000 to 3500 rpm
See next page
400 mm (5 mm stripped / tinned)
26 AWG
80 °C
В
50 °C
100 °C
EPDM
EPDM
EPDM
0.6 mm
PPS (polyphenylene sulphide)
85 g



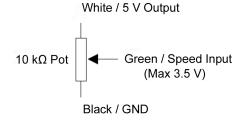
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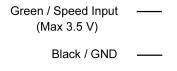
Wiring Details / Speed Control

		Wire:
12 to 24 V DC	Red	1
GND	Black	2
Speed control input: 1.0 to 3.5 V DC (or PWM with min. 15 kHz signal)	Green ¹	3
Speed: 1000 to 3500 rpm		
Resolution: 10 bit		
+ 5 V DC output (for use with speed control, see below)	White ²	4
Frequency output, 1 pulse (+ 5 V) per revolution with 50% on time	Yellow	5
¹ Running above 3.5 V DC (> 3500 rpm) may cause cavitation and reduced liquid flow.		
² White wire is supplied insulated. Damage will occur if connected to GND or any voltage.		

The 16K BLDC liquid diaphragm pump has 2 options for speed control:

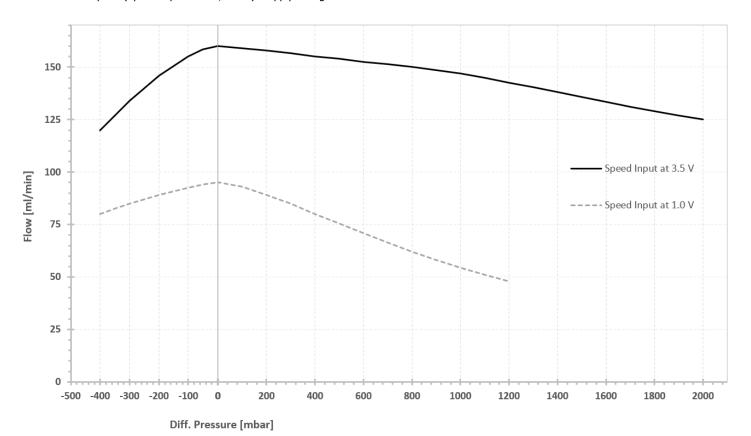
- ① Variable Speed: external 10 kΩ pot connected between white + 5V DC output and GND with wiper connected to green speed input.
- 2 Variable Speed: green speed input connected directly to an external 1.0 to 3.5 V DC (or PWM) signal with common GND to motor.





Flow Curve

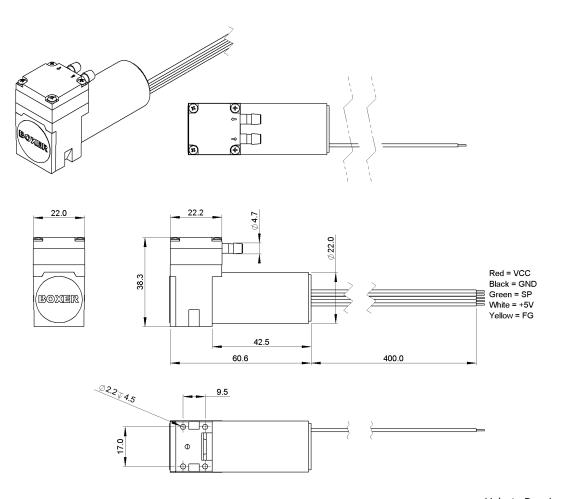
At max and min speed (Speed Input at 3.5 / 1.0 V). Supply voltage 12 to 24 V





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Drawing



Links to Drawing and STEP file: \rightarrow <u>Drawing</u> (.jpg)

 \rightarrow STEP (.zip)

Order Information

Part Number Description

16008.610 16K 12 to 24 V BLDC

Please enquire for part numbers of other configurations.

BOX-it (Webshop for online purchase)

Sample quantities are available for direct online purchase:



 \rightarrow BOX-it

Additional Information (Links):

- \rightarrow 16K webpage
- → Boxer liquid diaphragm pump overview

All data is representative for initial selection purposes. It is the responsibility of the user to determine suitability for the intended use. Technical changes reserved.

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