

### FEATURES

- > Excellent aspiration performance
- > Valve system optimized for gas/liquid mixtures
- > High efficiency
- > Excellent reliability and durability even with corrosive and abrasive media
- > Flexible design for customized solutions

### TYPICAL APPLICATIONS

- > In-vitro diagnostics
- > Inkjet printers
- > Condensate removal

### BASE MODEL

6323 BLDC HP



Diaphragm

# Diaphragm Liquid Pump 6323 BLDC HP

<b>Max. liquid flow</b>	<b>1.750 ml/min</b>
<b>Max. gas flow</b>	<b>5.0 l/min</b>
<b>Pressure height (liquid)</b>	<b>1.000 mbar (rel.)</b>
<b>Final vacuum (gas)</b>	<b>-700 mbar (rel.)</b>



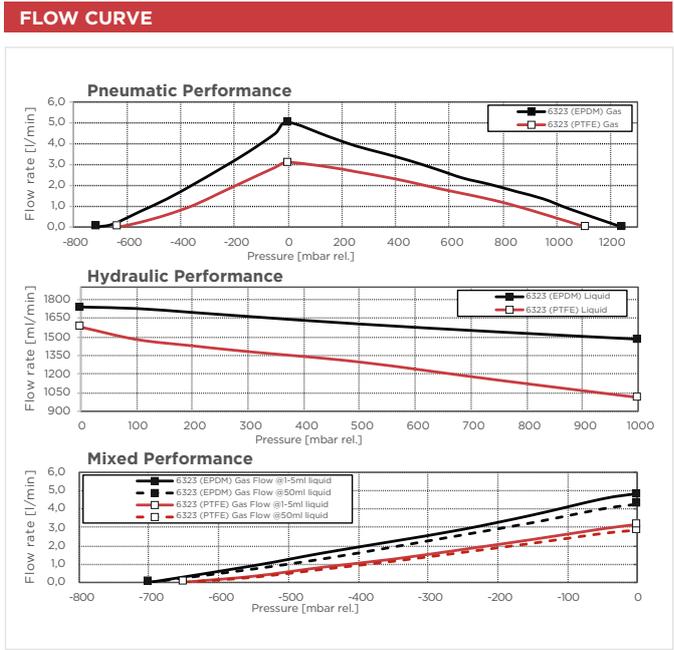
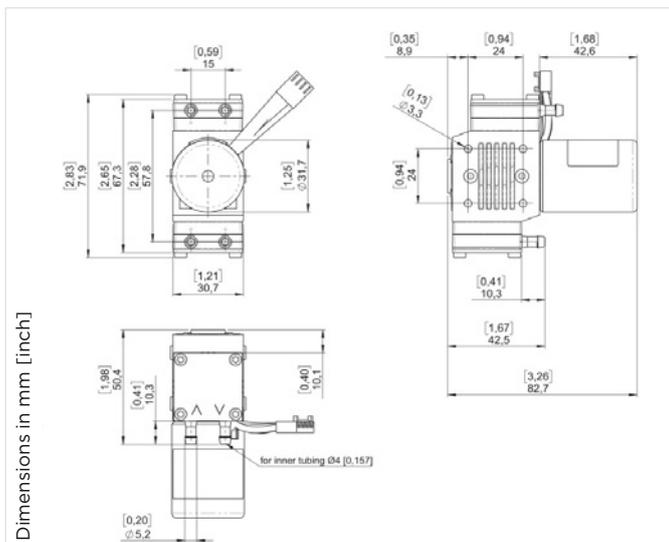
HYDRAULIC DATA	
Max. flow [l/min]	1.750 (EPDM) / 1.550 (PTFE)
Max. cont. pressure [mbar rel.]	1.000
Max. suction height [mbar rel.]	-700

PNEUMATIC DATA	
Max. flow [l/min]	5.0 (EPDM) / 3.1 (PTFE)
Max. cont. pressure [mbar rel.]	1.100
Max. vacuum [mbar rel.]	-700

OPERATING CONDITIONS	
Media temperature (liquid) [°C]	5 to 80
Ambient temperature [°C]	5 to 40
Storage temperature [°C]	-30 to +70

PHYSICAL DATA	
Dimensions l x w x h [mm]	83 x 31 x 72
Weight [g]	217
Mounting on side [mm]	Through hole Ø 3.3

## DIMENSIONAL DRAWING



ELECTRICAL DATA*	
Motor type	Brushless DC
Nominal voltage	12 / 24 V DC
Max. power consumption [W]	16.8 (liquid operation)
Insulation class	A
Protection class	IP 20
Drive electronics	Integrated

\*Please refer to the wiring diagram on page 3.

## MODEL KEY

**6323 - F - 0 - DD - 24V - BLDC HP - 4600 - 13 - EEE - PP - HB**

Pos	Options	Description
1	<b>6323</b>	Product Line
2	<b>F</b>	Fluid operation
3	<b>0</b>	Tubing: no tubing included
4	<b>A / B / C / D</b>	Port position: standard D over motor
5	<b>12V / 24V</b>	Nominal voltage
6	<b>BLDC HP</b>	Motor: BLDC High Performance
7	<b>4600</b>	Nominal motor speed (motor dependent)
8	<b>10 / 13</b>	Eccentric: e.g. 13 → 1.3 mm
9	<b>EEE / PFF</b>	Diaphragm, valve/sealing: EPDM/PTFE/FFKM
10	<b>PP</b>	Pump head material: Polypropylene
11	<b>HB / DN</b>	Hose Barbs / DN 4/6 compression fittings

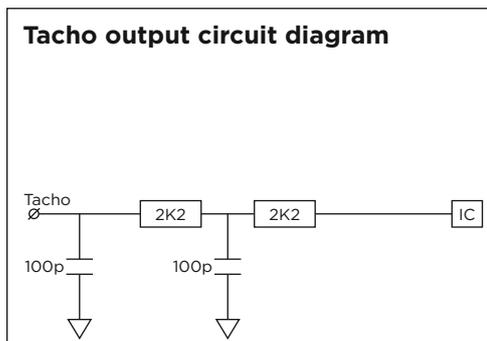
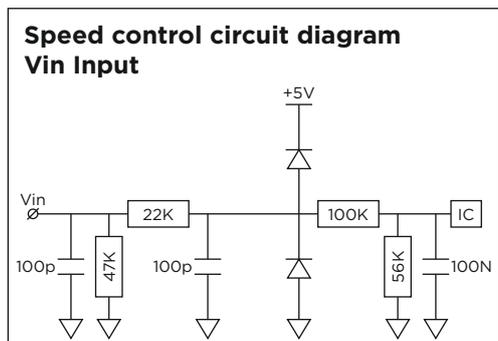
## ORDER INFORMATION

Part Number	Model Key
63230006	6323-F-0-DD-24V-BLDC HP-4600-13-EEE-PP-HB
63230008	6323-F-0-DD-24V-BLDC HP-4600-10-PFF-PP-HB
63230016	6323-F-0-DD-24V-BLDC HP-4600-13-EEE-PP-DN
63230018	6323-F-0-DD-24V-BLDC HP-4600-10-PFF-PP-DN
63230106	6323-F-0-DD-12V-BLDC HP-4600-13-EEE-PP-HB
63230108	6323-F-0-DD-12V-BLDC HP-4600-10-PFF-PP-HB
63230116	6323-F-0-DD-12V-BLDC HP-4600-13-EEE-PP-DN
63230118	6323-F-0-DD-12V-BLDC HP-4600-10-PFF-PP-DN
Other Configurations	Upon Request

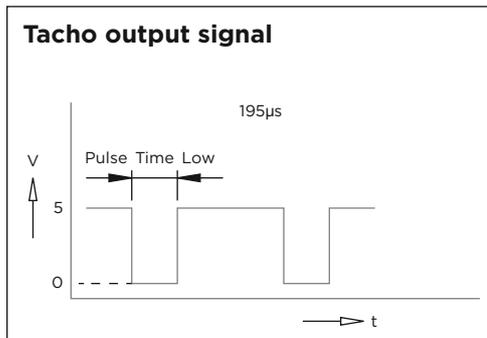
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# Wiring diagram (BLDC High Performance)

	Function	Colour	Control
Pin 1	V Supply	Red	12 V DC (max. voltage range: 10..18 V DC) 24 V DC (max. voltage range: 10..28 V DC)
Pin 2	Ground	Black	Ground for Vsupply (PIN 1) and Speed Control (PIN 3) analog: 0.5 V DC PWM: 6..20kHz - 14..96% Speed voltage input threshold: 0.2 V
Pin 3	Speed Control	White	
Pin 4	Tacho out	Green	18 pulses per revolution Pulse time „LOW“: 195 $\mu$ s Output level „LOW“: 0 / max. 0.5 V Output level „HIGH“: min. 4 V / max. 5 V



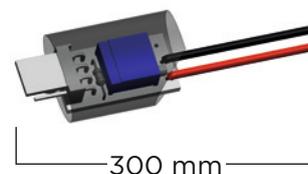
Optional: Adapter for 2-wire duty incl. potentiometer for speed adjustment



## Options / Accessories

P/N 29011932      **Adapter for BLDC motor**  
4-2 wire w/ manual speed control  
12 V DC            “red”

P/N 29011933      **Adapter for BLDC motor**  
4-2 wire w/ manual speed control  
24 V DC            “black”



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