

FEATURES

- > Oil-less, non lubricated
- > Comfortable sound emission: low sound and vibration throughout performance range
- > High evacuation speed: up to 30 % faster than industry standard
- > Unmatched performance stability
- > Excellent reliability over lifetime

TYPICAL APPLICATIONS

- > Medical Devices
- > Gas Detectors and Samplers
- > Laboratory Workstations and Analyzers

BASE MODEL

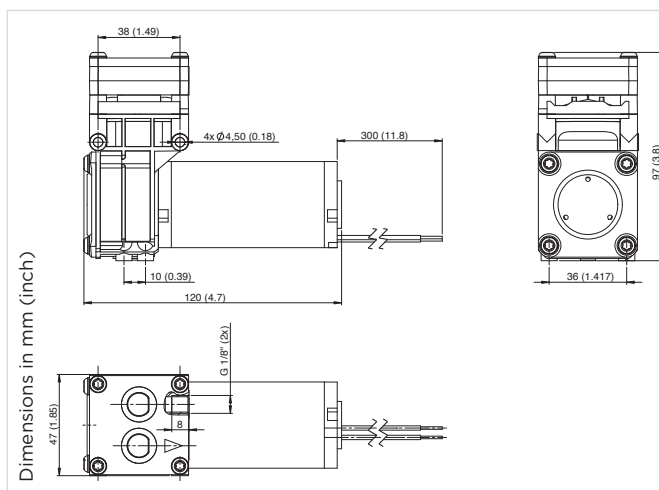
1610VD



Diaphragm

Diaphragm Pump 1610VD DC EPDM

Flow	8.0 l/min
Max. pressure	2.0 bar
Max. vacuum	90 %



PNEUMATIC DATA

Description	1610VD/2.3/E/DC	
Part number	12 V	16100000
	24 V	16100010
Max. flow	8.0 l/min	
Max. intermittent pressure	2.0 bar	
Max. continuous pressure	500 mbar	
Max. restart pressure	application dependent	
Max. intermittent vacuum	90 %	
Max. continuous vacuum	45 %	
Max. restart vacuum	90 %	

ELECTRICAL DATA

Motor type	DC brushed
Nominal speed	2800 rpm
Nominal voltage	12 / 24 VDC
Max. power consumption	14.5 W

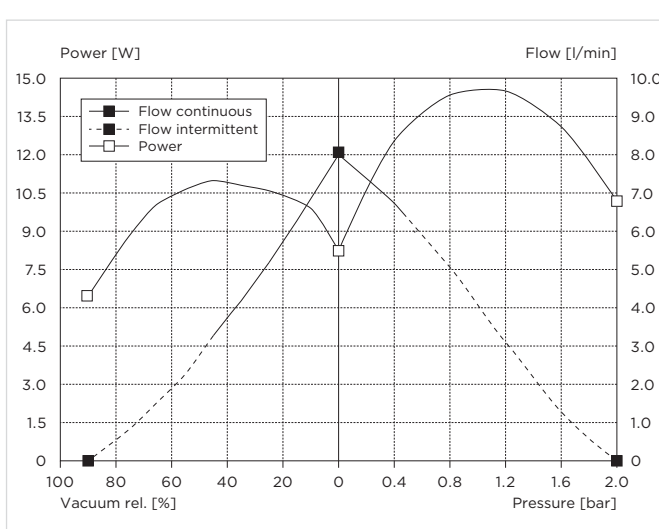
GENERAL DATA

Ambient temperature	5 to 40 °C
Media temperature	5 to 40 °C
Weight	640 g
Port direction	D
Pneumatic connection	thread size G1/8"
Mounting-base	self tapping screw Ø 4 mm (4x)
Mounting-side	through hole Ø 4.5 mm

WETTED PARTS

Pump head	PPS
Diaphragm	EPDM
Valve / gasket	EPDM

FLOW CURVES



Model key:

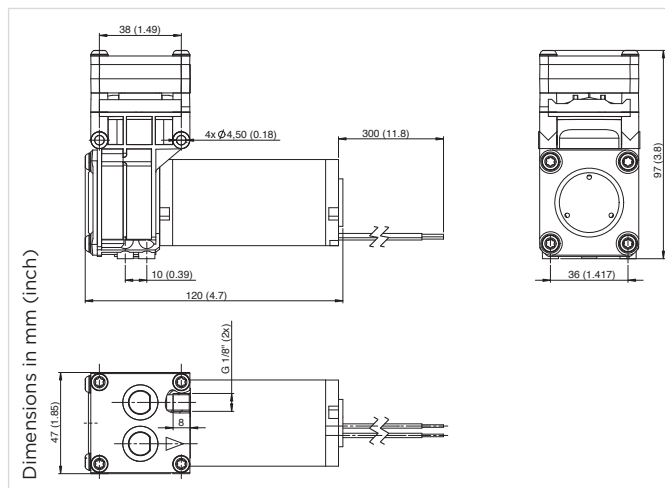
Vacuum/
Pressure Eccentric Motor type

1610 VD / 2.3 / E / DC

Product line Diaphragm, valves, gasket

Diaphragm Pump 1610VD DC FKM

Flow	7.9 l/min
Max. pressure	1.8 bar
Max. vacuum	90 %



PNEUMATIC DATA

Description	1610VD/2.3/F/DC	
Part number	12 V	16101000
	24 V	16101010
Max. flow	7.9 l/min	
Max. intermittent pressure	1.8 bar	
Max. continuous pressure	500 mbar	
Max. restart pressure	application dependent	
Max. intermittent vacuum	90 %	
Max. continuous vacuum	90 %	
Max. restart vacuum	90 %	

ELECTRICAL DATA

Motor type	DC brushed
Nominal speed	2800 rpm
Nominal voltage	12/24 VDC
Max. power consumption	14.0 W

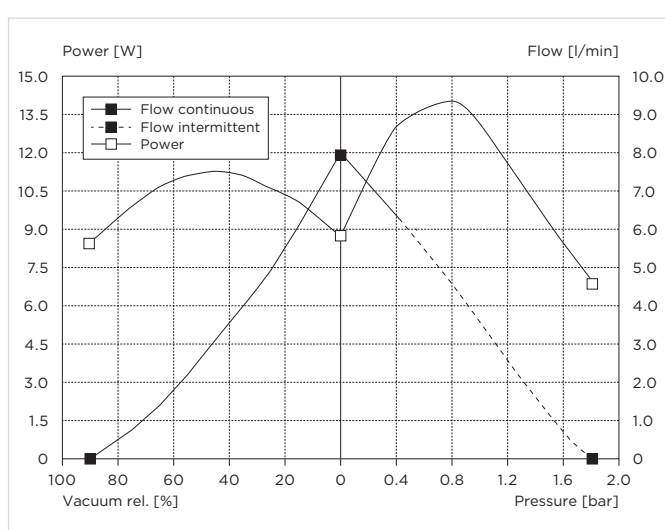
GENERAL DATA

Ambient temperature	5 to 40 °C
Media temperature	5 to 40 °C
Weight	648 g
Port direction	D
Pneumatic connection	thread size G1/8"
Mounting-base	self tapping screw Ø 4 mm (4x)
Mounting-side	through hole Ø 4.5 mm

WETTED PARTS

Pump head	PPS
Diaphragm	FKM
Valve/gasket	FKM

FLOW CURVES



Model key:

Vacuum/
Pressure Eccentric Motor type

1610 VD / 2.3 / F / DC

Product line Diaphragm, valves, gasket

PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE

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THOMAS
by Gardner Denver

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