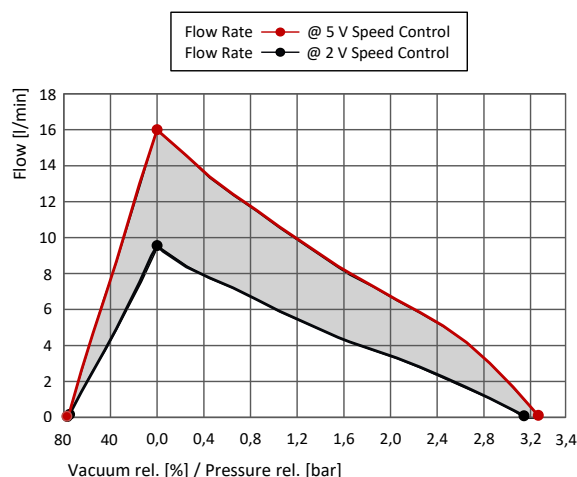


Diaphragm Pump 1520VDP BLDC High Performance

FLOW 12/24 VDC	15/16 l/min
FINAL VACUUM	80%
FINAL PRESSURE	3.3 bar rel.



PERFORMANCE CURVE



PNEUMATIC DATA*

Max. flow 12/24VDC	15/16 l/min
Max. intermittent vacuum	80%
Max. continuous vacuum	80%
Max. restart vacuum	80%
Max. intermittent pressure	3.3 bar rel.
Max. continuous pressure	0.8 bar rel.
Max. restart pressure	0.8 bar rel.

*@ Speed control 5 VDC (Pin3)

ELECTRICAL DATA

Motor type	Brushless DC (BLDC)
Nominal voltage	12/24 VDC
Max. power consumption	30/31 W
Insulation class	B
Protection class	IP 20
Drive electronics	Integrated
Connector housing	Molex 09-50-8043
Connector terminal	Molex 08-50-0105

OPERATING CONDITIONS*

Media temperature	5 to 40 °C
Ambient temperature	5 to 40 °C
Storage temperature	-30 to 70 °C
Storage humidity	15 to 85% (no condensation)

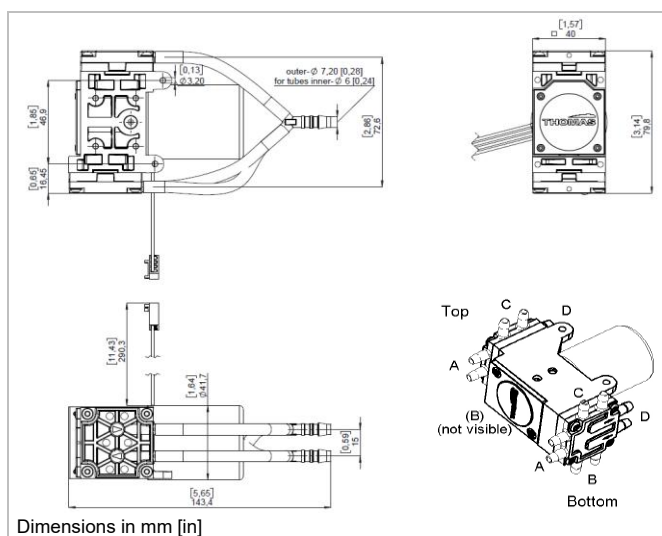
*Standard configuration part number 15200504/15200505

PHYSICAL DATA

Dimensions* l x w x h	95.3 x 40.0 x 79.8 mm
Weight	420 g
Mounting on side	Through hole Ø 3.2 mm (2x)
Mounting on side	Self tapping screw Ø 3.2 mm (8x)

*w/o Tubing

DIMENSIONAL DRAWING



The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for the intended use and the user assumes all risk and liability whatsoever in connection therewith. Thomas does not warrant, guarantee or assume any obligation or liability in connection with this information.

ELECTRICAL CONNECTION

Pin 1	V Supply	Red	12 VDC (max. range 10 - 18 V) 24 VDC (max. range 10 - 28 V)
Pin 2	Ground	Black	Ground for all pins
Pin 3	Speed Control	White	Analog 0 - 5 VDC PWM 6 - 20 kHz / 4 - 78% Threshold 0.3 VDC
Pin 4	Tacho out	Green	18 pulses per revolution
	- Pulse time	12 V DC	Pulse time 'Low' 195 µs
	- Pulse time	24 V DC	Pulse time 'Low' 195 µs
	- Output level		'Low'-Range 0 V / max. 0.5 V
	- Output level		'High'-Range 4 V / max. 5 V

MODEL KEY

1520 - VD - P - DD - 12V - BLDC HP - 3400 - 23 - EFE - PPS

Pos	Options	Description
1	1520	Product Line
2	V / D / VD	Vacuum / Pressure / Vacuum-Pressure
3	P / R / 0	Tubing: Parallel / series / no tubing
4	A / B / C / D	Port position: standard D over motor
5	12 V / 24 V	Nominal voltage
6	BLDC HP	Motor: BLDC High Performance
7	3400	Nominal motor speed (motor dependent)
8	23	Eccentric: e.g. 23 ⇒ 2.3 mm
9	EFE	Diaphragm, valve, seal material: EPDM / FKM
10	PPS	Pump head material: Ryton

ORDER INFORMATION

Part Number	Model Key
15200504	1520-VD-P-DD-12V-BLDC HP-3400-23-EFE-PPS
15200505	1520-VD-P-DD-24V-BLDC HP-3400-23-EFE-PPS
15200514	1520-VD-P-DD-12V-BLDC HP-3400-23-FFF-PPS
15200515	1520-VD-P-DD-24V-BLDC HP-3400-23-FFF-PPS
Other configurations	Upon request