

1014 Series

THOMAS
by Gardner Denver

FEATURES

- > Oil-less
- > Sealed air path for contamination free analysis
- > High efficiency resulting in extended battery life
- > Broad performance range fits numerous applications
- > Long lifetime enabling continuous duty operation
- > Low inductance level enables operation in “Intrinsically Safe” devices
- > Restart option at low temperatures for use in cold environment
- > RFI suppression supports unit certification for critical areas
- > Lightweight and compact package size fits requirements for handheld equipment

TYPICAL APPLICATIONS

- > Handheld Gas and Leak Detection
- > Gas Sampling
- > Anaesthesia Control
- > Patient Monitoring
- > Pipetting

BASE MODEL

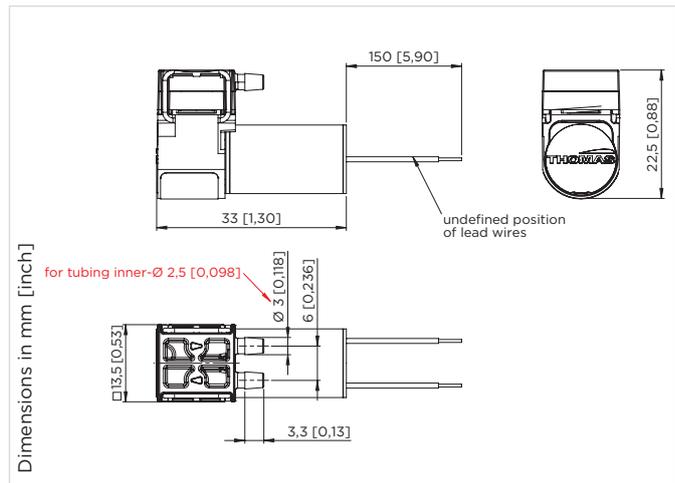
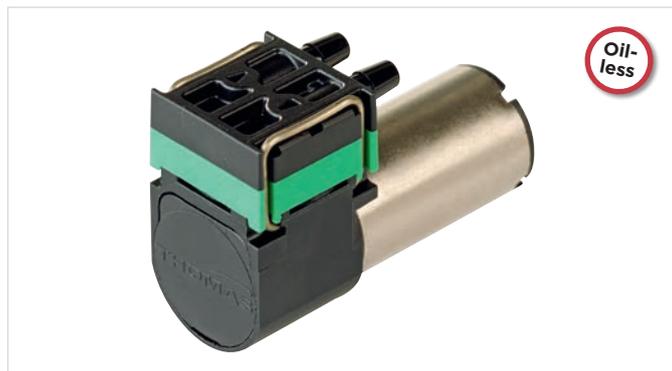
1014 VD DC



Diaphragm

Diaphragm Pump 1014VD DC

Flow	530 ml/min
Max. pressure	580 mbar
Max. vacuum	47 %



PNEUMATIC DATA

Description	1014VD/0.635/E/DC
Part number 2.5 to 4.0 V DC	10140001
Max. flow	530 ml/min
Max. intermittent pressure	580 mbar
Max. continuous pressure	580 mbar
Max. restart pressure	400 mbar
Max. intermittent vacuum	47 %
Max. continuous vacuum	47 %
Max. restart vacuum	43 %

ELECTRICAL DATA

Motor type	Ironless core DC
Nominal voltage	3.0 V **
Nominal speed	6300 rpm
Max. power consumption	243 mW
Protection class	IP40

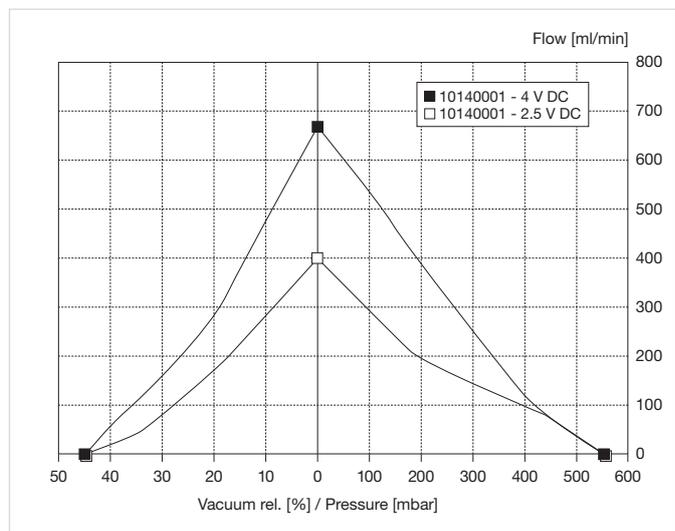
GENERAL DATA

Ambient temperature	15 to 40 °C
Media temperature	15 to 40 °C
Weight	15 g
Pneumatic connection	see drawing
Port direction	D

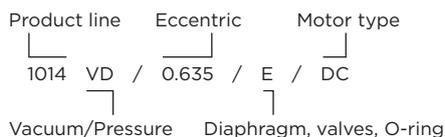
WETTED PARTS

Pump head	PAA
Diaphragm	EPDM
Valves	EPDM
O-Ring	EPDM

FLOW CURVES



Model key:



* Contact factory for operation in explosive atmospheres
 ** Radio interference suppression according to EN 55011

PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE

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Models presented in this catalog are representative of the product family. Photos of products pictured in this catalog do not necessarily represent a specific model number. To obtain further information for custom options, contact your local Thomas office.

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