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

BASE MODEL

1014 VD DC



TYPICAL APPLICATIONS

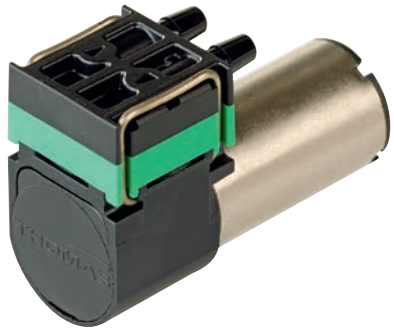
> Handheld Gas and Leak Detection
> Gas Sampling
> Anaesthesia Control
> Patient Monitoring
> Pipetting

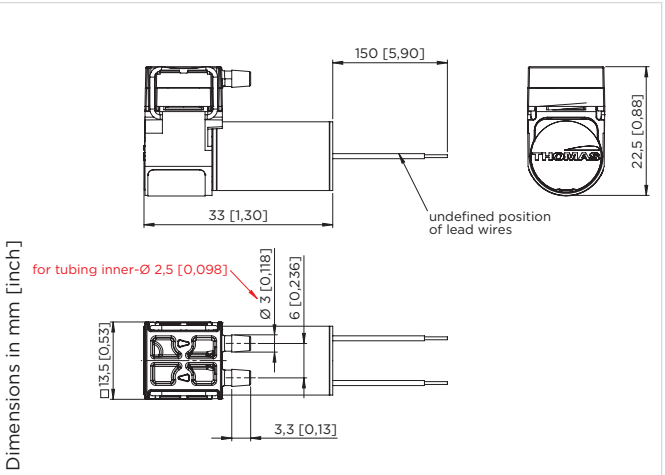


Diaphragm

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

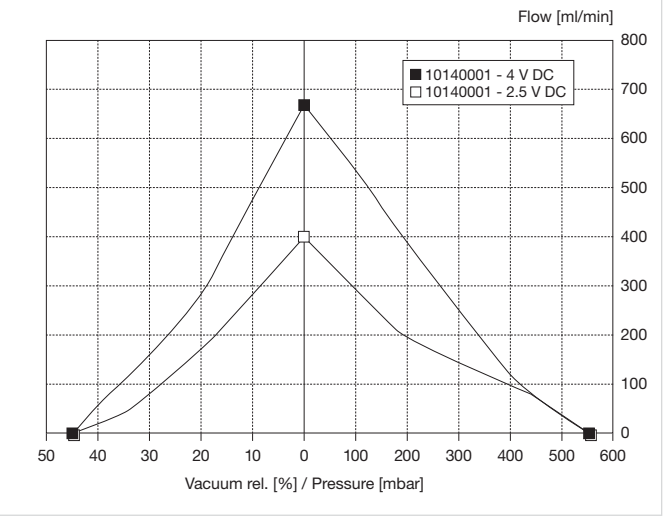
GENERAL DATA

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:

Product line: 1014 VD
Eccentric: 0.635
Motor type: E / DC

Vacuum/Pressure

Diaphragm, valves, O-ring

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

PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE

gd-thomas.com

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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 in connection therewith. Thomas does not warrant, guarantee or assume any obligation or liability in connection with this information.

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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