

FEATURES

- > Oil-less, non lubricated
- > Comfortable sound emission: low sound and vibration throughout performance range
- > Unmatched performance stability
- > Excellent reliability over lifetime

TYPICAL APPLICATIONS

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

BASE MODEL

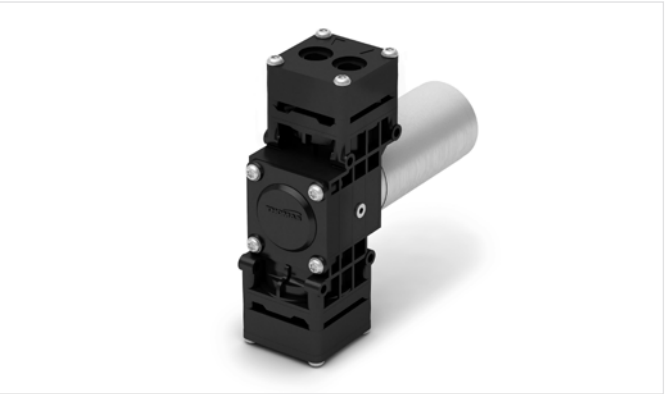
1620VD



Diaphragm

Diaphragm Pump 1620VDP DC EPDM

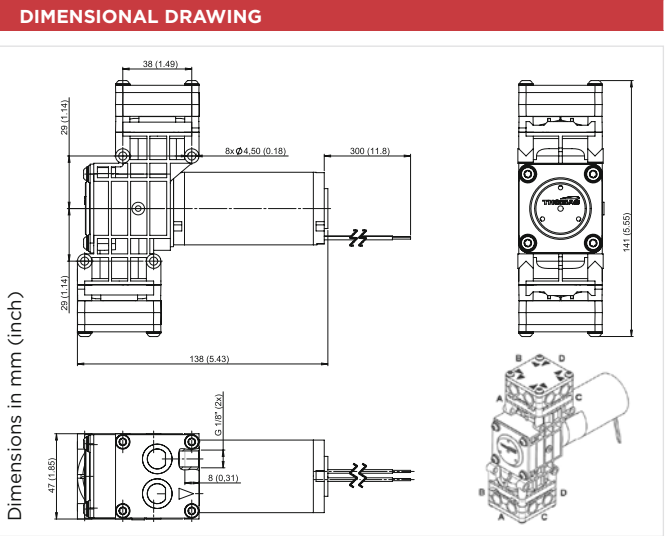
Flow	16.5 l/min
Final Vacuum	87 %
Final Pressure	1.8 bar



PNEUMATIC DATA	
Max. flow	16.5l/min
Max. intermittent vacuum	87 %
Max. continuous vacuum	87%
Max. restart vacuum	87%
Max. intermittent pressure	1.8bar
Max. continuous pressure	1.0 bar
Max. restart pressure	application dependent

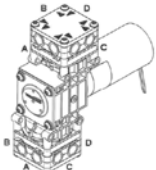
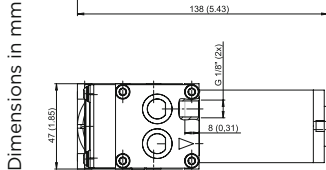
OPERATING CONDITIONS	
Media temperature	5 to 40 °C
Ambient temperature	5 to 40 °C
Storage temperature	-25 to 55 °C
Storage humidity	30 to 70 % (no condensation)

PHYSICAL DATA	
Dimensions l x w x h	138 x 47 x 141 mm
Weight	750 g
Pneumatic connection	thread size G1/8"
Mounting-side	through hole ø 4.5 mm



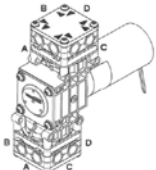
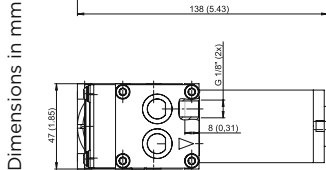
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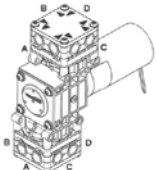
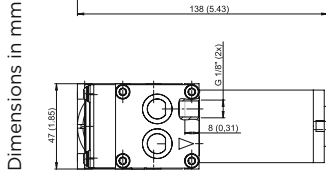
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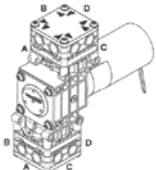
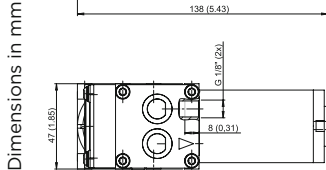
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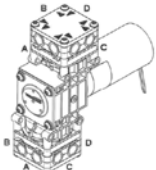
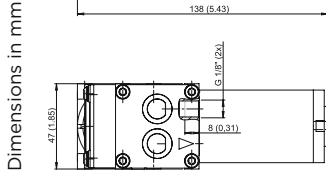
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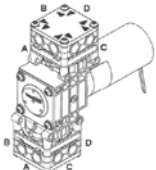
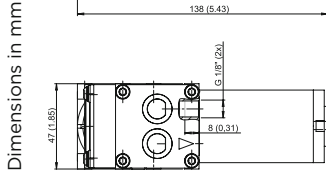
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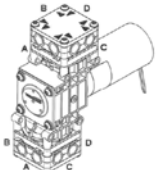
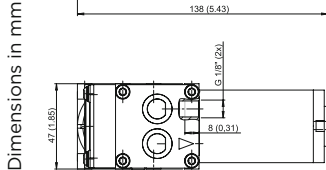
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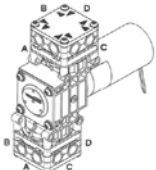
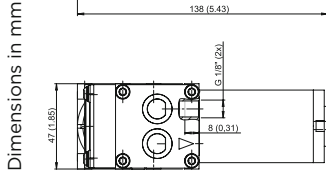
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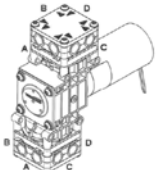
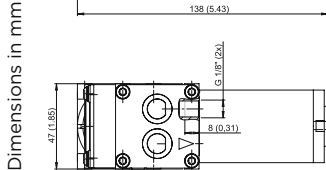
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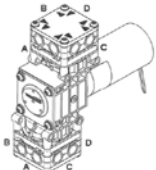
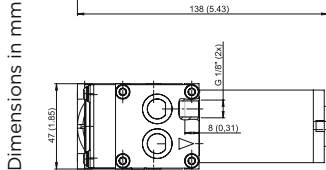
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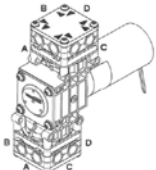
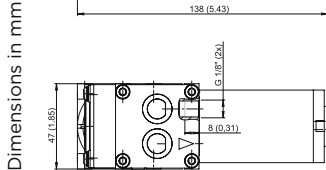
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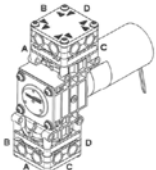
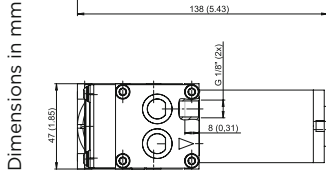
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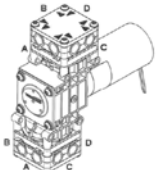
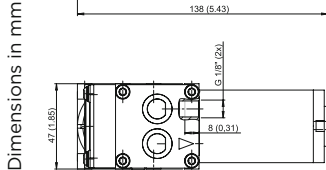
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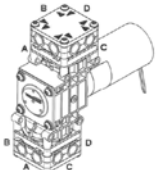
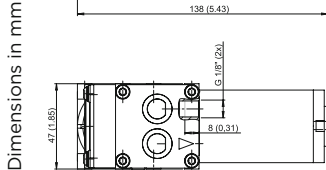
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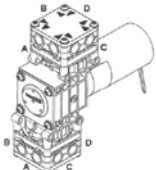
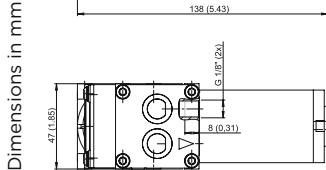
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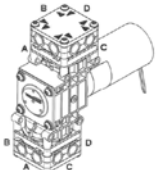
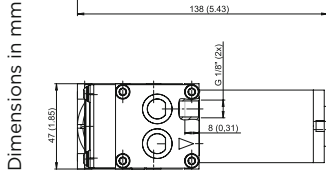
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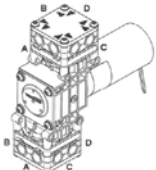
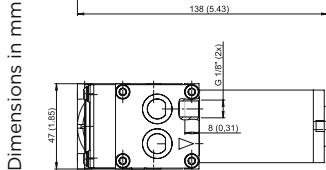
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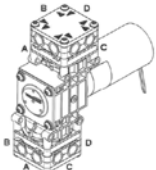
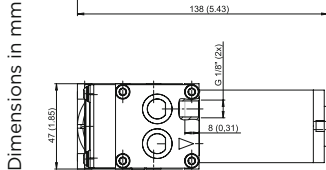
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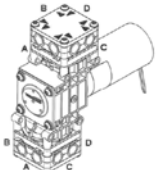
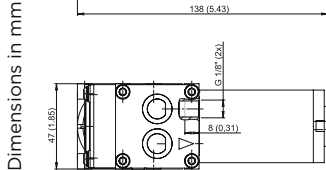
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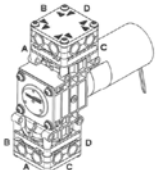
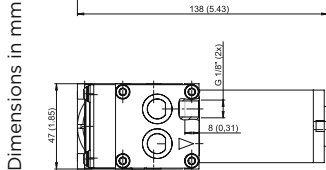
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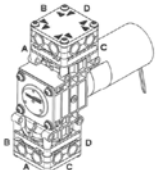
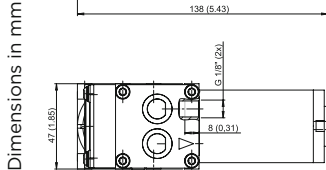
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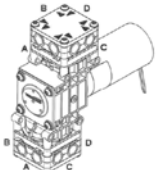
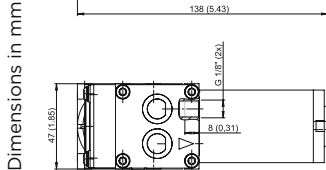
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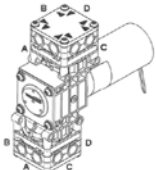
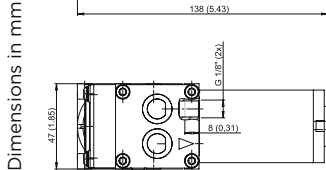
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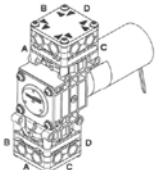
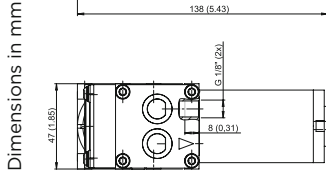
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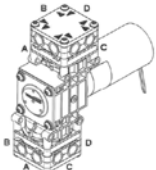
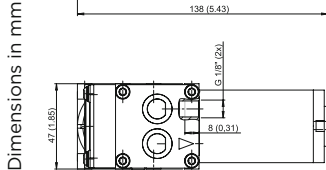
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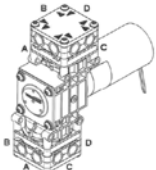
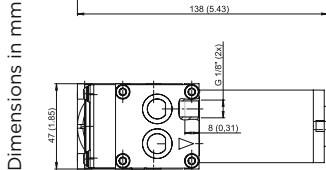
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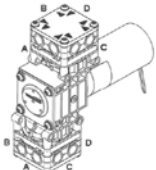
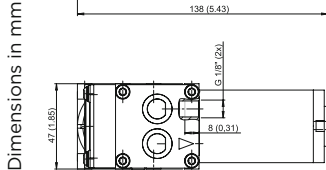
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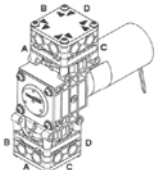
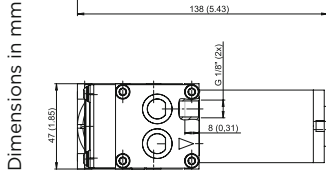
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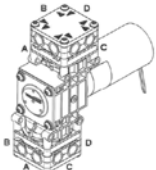
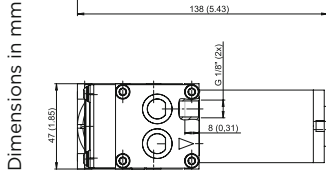
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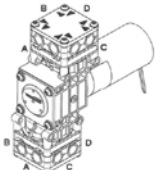
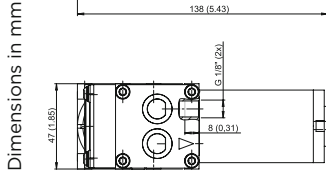
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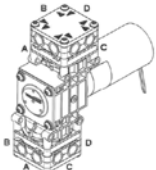
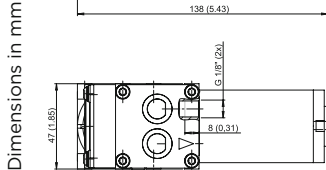
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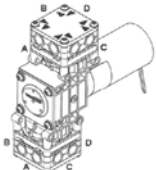
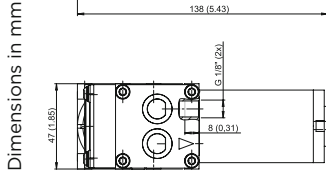
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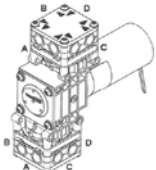
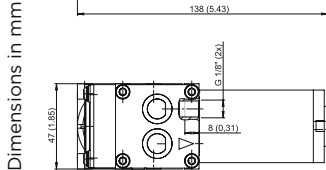
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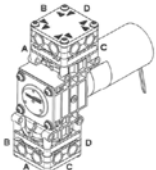
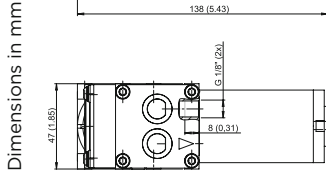
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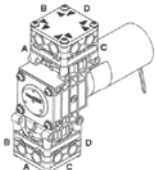
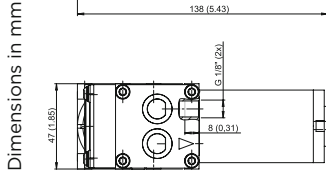
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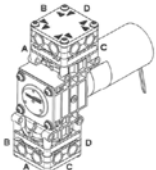
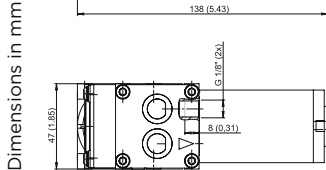
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Diaphragm Pump 1620VDP DC FKM

Flow	16.0 l/min
Final Vacuum	87 %
Final Pressure	1.75 bar

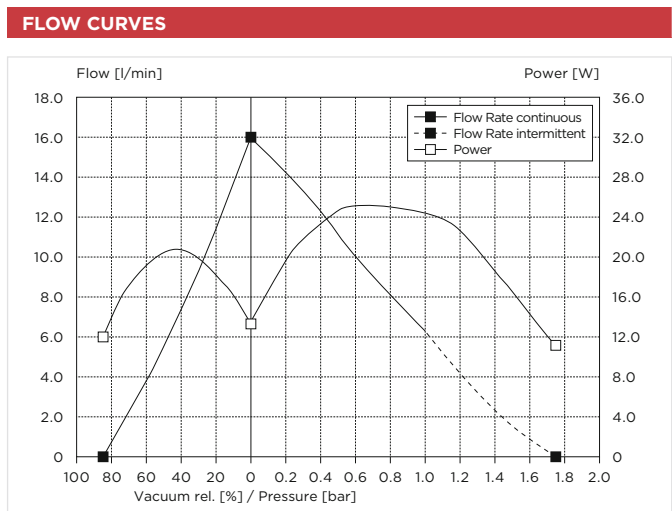


PNEUMATIC DATA	
Max. flow	16.0 l/min
Max. intermittent vacuum	87 %
Max. continuous vacuum	87 %
Max. restart vacuum	87 %
Max. intermittent pressure	1.75 bar
Max. continuous pressure	1.0 bar
Max. restart pressure	application dependent

OPERATING CONDITIONS	
Media temperature	5 to 40 °C
Ambient temperature	5 to 40 °C
Storage temperature	-25 to 55 °C
Storage humidity	30 to 70 % (no condensation)

PHYSICAL DATA	
Dimensions l x w x h	138 x 47 x 141 mm
Weight	750 g
Pneumatic connection	thread size G1/8"
Mounting-side	through hole ø 4.5 mm

DIMENSIONAL DRAWING	
Dimensions in mm (inch)	



ELECTRICAL DATA	
Motor type	DC brushed
Nominal voltage	12/24 V DC
Max. power consumption	25.0 W
Insulation class	E
Protection class	IP40

ELECTRICAL DATA	
Cable wire red	Plus
Cable wire black	Minus

MODEL KEY		
1620 - VD - 0 - DD - 12V - DC - 2800 - 22 - FFF - PPS-T		
Pos	Options	Description
1	1620	Product Line
2	VD	Vacuum-Pressure
3	0	Without tubing
4	A/B/C/D	Port position: D (standard)
5	12V/24 V	Nominal voltage
6	DC	Motor: Quality DC
7	2800	Nominal motor speed
8	22	Eccentric: e.g. 22 ⇔ 2.2 mm
9	EEE/FFF	Diaphragm, valve, seal material: EPDM / FKM
10	PPS-T	Pump head material: Ryton

ORDER INFORMATION	
Part Number	Model Key
16201000W	1620-VD-0-DD-12V-DC-2800-22-FFF-PPS-T
16201010W	1620-VD-0-DD-24V-DC-2800-22-FFF-PPS-T
Other configurations	Upon request

PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE



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.

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