319 Series

THOMAS
by Gardner Denver

FEATURES

> Black epoxy coated compressor exterior
> Stainless steel inlet valve/FKM poppet exhaust valve
> Epoxy coated steel mounting bracket w/vibration isolators
> Wetted parts treated for corrosion resistance
> Radiated emission suppression ECE-R10-03
> Thermally protected motor
> Available in 12V DC or 24V DC
> Inlet filter/exhaust muffler
> Configurable part options
> RoHS/Reach compliant

Declaration documentation available upon request

BASE MODELS

3191250IRBLSCE
(12V DC)

3D191250IRSLSCE
(12V DC)



319 Series



3D19 Series
Dryer/solenoid equipped

TYPICAL APPLICATIONS

> Air Suspension
> Plasma Cutter
> Optical Equipment
> Medical Devices



WOB-L

319 Series

Flow	1.25 cfm (35.4 l/min)
Max. intermittent pressure	120 psi (8.3 bar)*
Max. vacuum	93% local barometer (-930 mbar)

*Custom .56" (14.2 mm) stroke rated for 150 psi (10.3 bar)



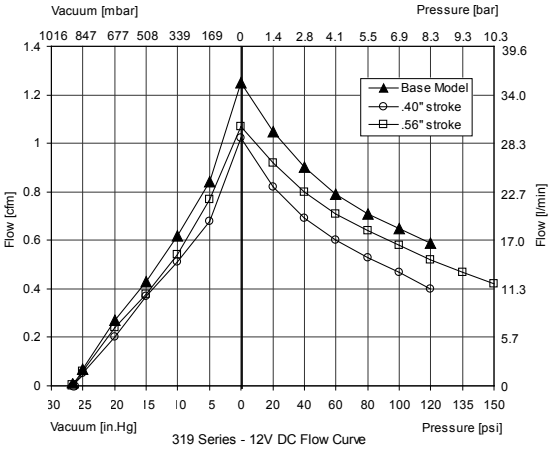
319

Available in
12 or 24 volt DC



3D19

Oil-less



319 Series - 12V DC Flow Curve

Consult factory for custom configured .40" and .56" stroke options

NOTE: All test values are nominal and for reference only. They are not guaranteed maximum or minimum limits, nor do they imply mean or median.

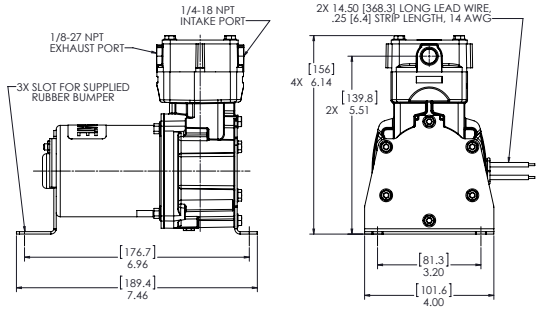
PERFORMANCE DATA				
Model Number	3191250IRBLSCE	[3192450IRBLSCE]	3D191250IRSLSCE	[3D192450IRSLSCE]
Head Configuration	Pressure/vacuum		Pressure/vacuum	
Stroke	0.50 in. (12.7 mm)		0.50 in. (12.7 mm)	
Nominal voltage input	12V DC	[Optional 24V DC]	12V DC	[Optional 24V DC]
Max. open air flow	1.25 cfm (35.4 l/min)		1.25 cfm (35.4 l/min)	
Max. rated intermittent pressure	120 psi (8.3 bar)		120 psi (8.3 bar)	
Current at rated pressure	19.4A	[8.9A]	19.7A	[9.0A]
Power at rated pressure	233W	[108W]	236W	[108W]
Speed at rated pressure	3173 rpm	[3035 rpm]	3261 rpm	[3123 rpm]
Maximum duty cycle	8.5 min. on / 20 min. off		8.5 min. on / 20 min. off	
Maximum pressure restart	120 psi (8.3 bar)		120 psi (8.3 bar)	
Maximum vacuum	93% local barometer		Not available	
Maximum vacuum restart	n/a		Not available	

ELECTRICAL DATA				
Motor type (Capacitance)	Permanent Magnet		Permanent Magnet	
Motor locked rotor current	134.0A	[69.0A]	134.0A	[69.0A]
Motor insulation class	B		B	
Thermal switch	Yes		Yes	
Motor lead wire color, gauge	Red/black, 14 AWG		Red/black, 14 AWG	
Solenoid wire color, gauge	n/a		Blue/white, 18 AWG	

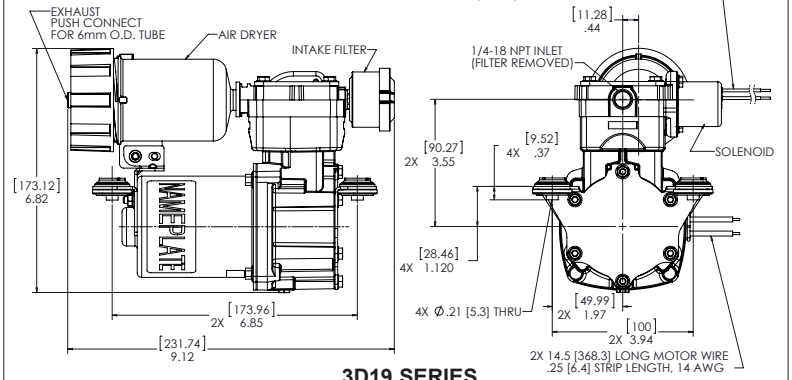
GENERAL DATA		
Operating ambient air temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Safety certification	TUVE11	TUVE11
Net weight	5.1 lbs. (2.3 kg)	6.4 lbs. (2.9 kg)

PRODUCT DIMENSIONS

Dimensions shown in inches [mm]



319 SERIES



3D19 SERIES

PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE

gd-thomas.com

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