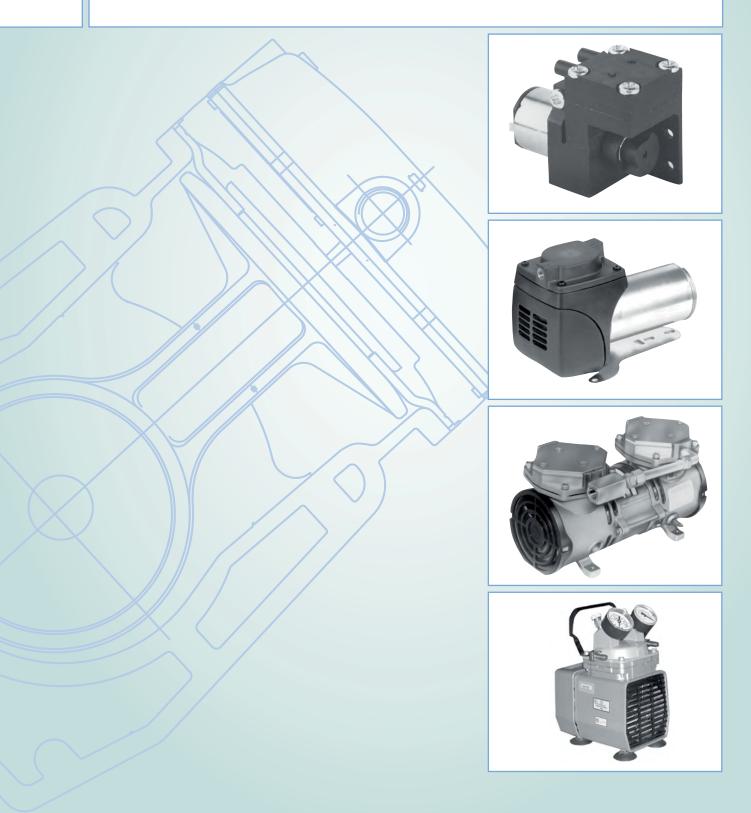
GAST

Diaphragm Compressors and Vacuum Pumps



The Gast Group Difference

For over 90 years, Gast Manufacturing has been providing innovative air solutions to a broad breadth of customers. With the relatively recent addition of JUN-AIR, we have expanded our capabilities and formed, "The Gast Group." Together, our diverse engineering background and pneumatic experience allow us to provide both component and system solutions to meet all of your pneumatic needs...all backed by our strong commitment to quality and customer support.

Products for Almost Any Application – Worldwide

We offer an extensive and versatile line of air-moving products, including vacuum pumps, compressors, air motors, gearmotors, vacuum generators, and regenerative blowers. We design and build these components for original equipment manufacturers worldwide, but we also develop complete pneumatic solutions to solve tough customer challenges.

To ensure fast, efficient delivery of products, Gast has a vast network of sales representatives/distributors throughout the United States and the world. Plus, we maintain direct sales and service facilities in Europe, Hong Kong, and Shanghai, China.

Unparalleled Design Expertise

Unlike other manufacturers, who might expect you to modify your pneumatic system to fit their available product(s), Gast is committed to finding the right product to meet your specific needs. If we don't have a high-quality, off-the-shelf product to fit your existing application or meet your anticipated needs, we'll propose customized cost-effective design options that will serve your special requirements. We can even develop and produce your complete pneumatic system for you.

Our experienced Research and Development engineers and Product engineers work together to analyze customer needs and use computer-aided design to generate timely solutions for air-handling problems. The design team has one goal: to create problem-solving solutions that capitalize on the latest available technology, meet all application requirements, and benefit from cost-effective production methods. The end result: products and solutions that are the best value in the marketplace for our customers.

A Lasting Commitment to Quality

We invest heavily in both equipment and people to maintain the consistent quality for which our products are known worldwide, and we have done so since day one. As early as 1983, we implemented a total quality process designed to ensure the quality of our products. In keeping with that tradition, Gast has achieved ISO 9001 certification, making us a member of the elite group of manufacturing companies in the world to receive that certification.

European Community Directives (€

With extensive sales outside the United States, Gast has pledged to conform to the European Community Directives. These directives contain essential requirements concerning health, safety, environment, and consumer protection for all products targeted for the European Community market. Currently, all Gast products available for sale in the European Community are in compliance with the Machinery, Low Voltage, and Electromagnetic Compatibility Directives.

Pictorial and dimensional data is subject to change without notice. The information presented is based on technical data and test results of nominal units. It is believed to be accurate and is offered as an aid in the selection of Gast products. It is the user's responsibility to determine suitability of the product for intended use and the user assumes all risk and liability whatsoever in connection therewith. Environmental and application conditions may affect advertised life.

Why use a Gast Compressor and Vacuum Pump?

Worldwide Excellence in Air Technology – Dedicated to the Success of Your Pneumatic Applications

If you need a small, quiet source of vacuum or pressure, you'll find the unit for your application in the Gast line of oilless Diaphragm air compressors and vacuum pumps, which come in standard, twin, and miniature styles. Plastic component construction on the miniature pumps makes them especially compact and lightweight...ideal for light-duty applications.

Air flow capabilities for the entire line range from .65 LPM up to 3.8 CFM (6,5 m³/h), vacuum up to 29 inHg (31 mbar), and pressure up to 60 psig (4,2 bar). Electric motors are available in dual frequency, shaded pole, and permanent split capacitor (psc) versions as well as AC multi voltages for worldwide applications, plus 4-24 volt DC options on the miniature styles. Horsepowers range from $^{1/}_{16}$ to $^{1/}_{2}$ HP (0,05 to 0,37 kW) on the standard size models.

Tank models for the DOA series and a full line of recommended accessories are also available.



- AC and DC models
- · Low noise, low vibration
- · Compact, lightweight
- Oilless
- · Long life
- · Corrosion resistant
- Low power consumption



Reciprocating Diaphragm Vacuum Pump and Compressors

Here's why you can count on 60 psi (4,2 bar), 29 inHg (31 mbar)

Our connecting rod is bonded to its bearing - not clamped as in lighter duty pumps. In all pumps except our Miniatures we use larger bearings. So with a Gast unit, you get greater strength and durability where work loads are greatest.

Easy maintenance

When you need to change air filters, it's just a 60-second screwdriver job to get inside.

Putting the head assembly back together is no problem either. The fasteners are made in non-symmetrical patterns. So the only way the head goes together is the right way.

Cooler air output

Even at maximum duty, output air is cool and oil-free. As ambient air enters and leaves the head, it never goes near the motor to pick up heat and foreign matter. Cooler temperatures add to overall efficiency and service life.

Variety of electric motors

Gast diaphragm pumps are available in a wide range of popular voltages and frequencies. Motor types range from economical shaded pole to more efficient permanent split capacitor (PSC) which can also provide improved starting characteristics for certain applications. Two and four pole motors are also available.

					CF	M @	n	1³/h@	Max	imum	Max	imum		
Model	Motor		RPM			psi	0	bar	Pres	ssure		uum		Page
Number	Voltage & HP	Motor Type	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	psi	bar	inhg	mbar	kW	Number
MOA-P101-AA	1/16, 115-60-1	Shaded pole	1575		0.51		0,85		50	3,5			0,05	20
MOA-P101-CA	1/16, 115-60-1	Shaded pole	1575		0.52	0.40	0,86	0,67	50	3,5			0,05	20
MOA-P101-CD	1/16, 220/230-50/60-1	Shaded pole	1575	1275	0.51	0.40	0,85	0,68	50	3,5			0,05	20
MOA-P101-JH	1/16, 12 Volt	DC	1800)	0.56	0.95	30	3,5					0,05	20
MOA-P101-KH	1/8, 12 Volt	DC	3000)	0.80	1.36	50	3,5					0,09	20
MOA-P101-JK	1/16, 24 Volt	DC	1800)	0.56	0.95	50	3,5					0,05	20
MOA-P108-FB	1/8, 110/115-50/60-1	PSC (2 pole)	3000	2500	0.80	0.65	1,40	1,10	50	3,5			0,09	20
MOA-P108-FD	1/8, 220/230-50/60-1	PSC (2 pole)	3000	2500	0.80	0.65	1,40	1,10	50	3,5			0,09	20
MOA-P108-HB	1/16, 110/115-50/60-1	PSC (4 pole)	1575	1275	0.52	0.40	0,86	0,67	50	3,5			0,05	20
MOA-P108-HD	1/16, 230/220-60/50-1	PSC	1575	1275	0.52	0.40	0,86	0,67	50	3,5			0,05	20
MOA-P109-AA	1/16, 115-60-1	Shaded pole			0.52	0.40	0,86	0,67	50	3,5			0,05	20
MOA-P109-CA	1/16, 115-60-1	Shaded pole	1575		0.52	0.40	0,86	0,67	50	3,5			0,05	20
MOA-V111-JH	1/16, 12 Volt	DC	1800)	0.56	0.95			24.0	812,64			0,05	20
MOA-V111-KH	1/8, 12 Volt	DC	3000)	0.80	1.36			24.0	812,64			0,09	20
MOA-V111-JK	1/16, 24 Volt	DC	1800)	0.56	0.95			24.0	812,64			0,05	20
MOA-V111-CD	1/16, 220/230-50/60-1	Shaded pole	1575	1275	0.49	0.40	0,83	0,68			24.0	812,64	0,05	20
MOA-V112-AE	1/16, 110/115-50/60-1	Shaded pole	1575	1275	0.49	0.40	0,83	0,68			24.0	812,64	0,05	20
MOA-V112-FB	1/8, 110/115-50/60-1	PSC (2 pole)	3000	2500	0.72	0.60	1,22	1,02			24.0	812,64	0,09	20
MOA-V112-FD	1/8, 220/230-50/60-1	PSC (2 pole)	3000	2500	0.72	0.60	1,22	1,02			24.0	812,64	0,09	20
MOA-V113-AE	1/16, 110/115-50/60-1	Shaded pole	1575	1275	0.49	0.40	0,83	0,68			24.0	812,64	0,05	20
MAA-P102-HB	1/16, 115/110-60/50-1	PSC (4 pole)	1575	1275	1.02	0.90	1,73	1,53	50	3,5			0,05	22
MAA-P102-HD	1/16, 220/230-50/60-1	PSC (4 pole)	1575	1275	1.02	0.90	1,73	1,53	50	3,5			0,05	22
MAA-P102-MB	1/8, 115/110-60/50-1	PSC (2 pole)	3000	2500	1.60	1.40	2,72	2,38	50	3,5			0,09	22
MAA-V103-HB	1/16, 115/110-60/50-1	PSC (4 pole)	1575	1275	1.02	0.85	1,73	1,45			24.0	812,64	0,05	22
MAA-V103-MB	1/8, 115/110-60/50-1	PSC (2 pole)	3000	2500	1.70	1.60	2,89	2,72			24.0	812,64	0,09	22
MAA-V109-HB	1/16, 115/110-60/50-1	PSC (4 pole)	1575	1275	0.47	0.39	0,80	0,66			28.0	948,08	0,05	22
MAA-V109-HD	1/16, 220/230-60/50-1	PSC (4 pole)	1575	1275	0.47	0.39	0,80	0,66			28.0	948,08	0,05	22
MAA-V109-MB	1/8, 115/110-60/50-1	PSC (2 pole)	3000	2500	0.80	0.66	1,36	1,12			28.5	965,01	0,09	22
MAA-V109-MD	1/8, 208-230/220-240	PSC (2 pole)	3000	2500	0.80	0.66	1,36	1,12			28.5	965,01	0,09	22
	-60/50-1													

erformace **Overview**

Model Number	Motor Voltage & HP	Motor Type	RPM 60 Hz	50 Hz	0	M @ psi 50 Hz	0	n³/h@ bar 50 Hz	Maxii Pres		l	cimum cuum mbar	kW	Page Number
DOA-P701-AA	1/8, 115-60-1	Shaded pole	1575	30 HZ	1.10	30 HZ	1,87	30 HZ	60	4,2	шпу	IIIDai	0,09	24
DOA-P704-AA	1/8, 115-60-1	Shaded pole	1575		1.10		1,87		60	4,2			0,09	28
DOA-P504-BN	1/8, 220/240-50-1	Shaded pole		1275		1.10		1,87	60	4,2			0,09	28
DOA-P304-BN	1/8, 115-60-1	Shaded pole Shaded pole	1575	1273	1.10		1,87		60	4,2			0,09	24
DOA-P701-AC	1/8, 230-60-1	Shaded pole	1575		1.10		1,87		60	4,2			0,09	24
DOA-P501-BN	1/8, 220/240-50-1	Shaded pole Shaded pole		1275		0.90	1,07	1,53	60	4,2			0,09	24
DOA-P509-BN	1/8, 220/240-50-1	Shaded pole		1275		0.90			60	4,2			0,09	24
DOA-P509-BN	1/8, 115/110-60/50-1	PSC (4 pole)	1575	1275		0.90	1,87	1,53 1,53	60	4,2			0,09	24
DOA-P501-DB	·				1.10								0,09	24
	1/8, 230/220-60/50-1	PSC (4 pole)	1575	1275	1.10	0.90	1,87	1,53	60	4,2				24
DOA-P501-FB	1/3, 115/110-60/50-1	PSC (2 pole)	3000	2500	1.90	1.55	3,23	2.63	60	4,2			0,25	24
DOA-P703-FB	1/3, 115/110-60/50-1	PSC (2 pole)	3000	2500	1.90	1.55	3,23	2,63	60	4,2			0,25	24
DOA-P501-FD	1/3, 220/230-60/50-1	PSC (2 pole)	3000	2500	1.90	1.55	3,23	2,63	60	4,2			0,25	24
DOA-P518-FD	1/3, 220/230-60/50-1	PSC (2 pole)	3000	2500	1.90	1.55	3,23	2,63	60	4,2			0,25	
DOA-P501-JH	1/8, 12 Volt	DC	2100		1.10	1,87	60	4,2					0,09	24
DOA-P501-KH	1/6, 12 Volt	DC	3200		1.90	3,23	60	4,2					0,12	24
DOA-P501-JK	1/8, 24 Volt	DC	2100		1.10	1,87	60	4,2					0,09	24
DOA-V722-AA	1/8, 115-60-1	Shaded pole	1575		1.10		1,87				25.5	863,43	0,09	24
DOA-V702-AC	1/8, 230-60-1	Shaded pole	1575		1.10		1,87				25.5	863,43	0,09	24
DOA-V502-BN	1/8, 220/240-50-1	Shaded pole		1275		0.95		1,62			25.5	863,43	0,09	24
DOA-V502-DB	1/8, 115/110-60/50-1	PSC (4 pole)	1575	1275	1.10	0.95	1,87	1,62			25.5	863,43	0,09	24
DOA-V502-DD	1/8. 230/220-60/50-1	PSC (4 pole)	1575	1275	1.10	0.95	1,87	1,62			25.5	863,43	0,09	24
DOA-V502A-FB	1/3, 110/115-60/50-1	PSC (2 pole)	3000	2500	1.80	1.50	3,06	2,55			25.5	863,43	0,25	24
DOA-V502A-FD	1/3, 220/230-60/50-1	PSC (2 pole)	3000	2500	1.80	1.50	3,96	2,55			25.5	863,43	0,25	24
DOA-V502-JH	1/8, 12 Volt	DC	2100		1	.26	2	,14			25.5	863,43	0,09	24
DOA-V502-JK	1/8, 24 Volt	DC	2100		1	.26	2	,14			25.5	863,43	0,09	24
DOL-701-AA	1/8, 115-60-1	Shaded pole	1575		1.10		2,14		60	4,2	25.5	863,43	0,09	32
DOA-V505-BN	220/240-50-1	Shaded pole		1275		0.95		1,62			25,0	846,50	0,09	30
DOA-P701-DB	110/115-60/50-1	PSC motor	1575	1275	1.10	0.90	1,87	1,53	60	4,2	25.5	863,43	0,09	30
DAA-P501-EB	1/4, 110/115-60/50-1	PSC (4 pole)	1575	1275	2.40	1.90	4,08	3,23	60	4,2			0,19	26
DAA-P501-ED	1/4, 220/230-60/50-1	PSC (4 pole)	1575	1275	2.40	1.90	4,08	3,23	60	4,2			0,19	26
DAA-P517-ED	1/4, 220/230-60/50-1	PSC (4 pole)	1575	1275	2.40	1.90	4,08	3,23	60	4,2			0,19	26
DAA-P513-EG	1/4, 240-50-1	PSC 4 pole		1275		1.90		3,23	60	4,2			0,19	26
DAA-P501-GB	1/2, 110/115-50/60-1	PSC 2 pole	3000	2500	3.80	3.25	6,46	5,52	60	4,2			0,37	26
DAA-P503-GB	1/2, 110/115-50/60-1	PSC 2 pole	3000	2500	3.80	3.25	6,46	5,52	60	4,2			0,37	26
DAA-P501-GD	1/2, 220/230-50/60-1	PSC (2 pole)	3000	2500	3.80	3.25	6,46	5,52	60	4,2			0,37	26
DAA-P503-GD	1/2, 220/230-50/60-1	PSC (2 pole)	3000	2500	3.80	3.25	6,46	5,52	60	4,2			0,37	26
DAA-P512-GD	1/2, 220/230-50/60-1	PSC (2 pole)	3000	2500	3.80	3.25	6,46	5,52	60	4,2			0,37	26
DAA-V505-EB	1/4, 110/115-50/60-1	PSC (4 pole)	1575	1275	2.20	1.80	3,74	3,06			25.5	863,43	0,19	26
DAA-V502-EB	1/4, 110/115-50/60-1	PSC (4 pole)	1575	1275	1.16	0.85	1,97	1,45			29.0	981,94	0,19	26
DAA-V505-ED	1/4, 220/230-50/60-1	PSC (4 pole)	1575	1275	2.20	1.80	3,74	3,06			25.5	863,43	0,19	26
DAA-V502-ED	1/4, 220/230-50/60-1	PSC (4 pole)	1575	1275	1.16	0.85	1,97	1,45			29.0	981,94	0,19	26
DAA-V510-EG	1/4, 240-50-1	PSC (4 pole)		1275		0.85		1,45			29.0	981,94	0,19	26
DAA-V505-GB	1/2, 110/115-50/60-1	PSC (2 pole)	3000	2500	3.60	3.00	6,12	5,10			25.5	863,43	0,37	26
DAA-V507-GB	1/2, 110/115-50/60-1	PSC (2 pole)	3000	2500	1.95	1.40	3,32	2,38			29.0	981,94	0,37	26
DAA-V505-GD	1/2, 220/230-50/60-1	PSC (2 pole)	3000	2500	3.60	3.00	6,12	5,10			25.5	863,43	0,37	26
DAA-V507-GD	1/2, 220/230-50/60-1	PSC (2 pole)	3000	2500	1.95	1.40	3,32	2,38			29.0	981,94	0,37	26
2711 1007 00	2201200 00100 1	. 00 (2 pole)	, 3000	2000	1.70	1.10	0,02	2,00			27.0	701,77	0,01	

CSA approved by Canadian Standards Association cUR - UL recognized for use in Canada CE conforms to European Standards UL UR recognized

Diaphragm Miniature Pump Performace Overview

Model/	POWER RATING 60 hz		FREE AIR FLOW	MAXI PRES	MUM SURE	MAXIMUM VACUUM		
SERIES	hp	kW	LPM	psi	bar	inHg	mbar	
MINIATURE DIA	PHRAGM MOD	ELS						
2D (DC)	-	-	.65	5.5	0,38	11	641	
3D (DC)	-	-	1.18	7.1	0,49	11.3	631	
5D (DC)	-	-	1.5	11	0,76	13	573	
10D (AC)	-	-	3.8	15	1,0	15	505	
10D (DC)	-	-	4.3	15	1,0	14	526	
15D (AC)	-	-	7.0	24	1,9	20	335	
15D (DC)	-	-	7.0	20	2,0	20	335	
15D (DC) Twin	-	-	6-13	25	1,9	25	99	
22D (AC)	1/20	0,04	26.3	25	1,7	23	234	
22D (DC)	1/8	0,09	36.8	25	1,7	22.5	251	

Catalog Performance **Specifications**

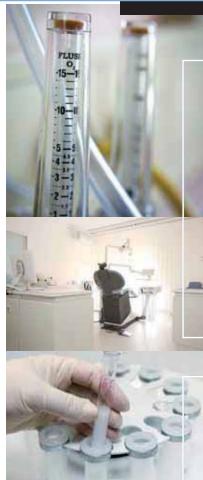
The specifications listed are that of a unit at sea level with an ambient temperature of 70 °F (21 °C), operating with normal electrical current conditions. The figures stated in this catalog are nominal approximations for models without accessories. Intake filters and exhaust mufflers, and the accumulation of contaminants in them during operation, will decrease the flow of air as well as the achievable pressure.

The units that we list in this catalog are a small portion of what we actually make. Those listed are considered "standard units" and are normally available from stock in small quantities. Variations are produced for many customers and by informing us of the application specifications we might find an existing unit that fits your requirement. If we don't and the quantity is sufficient, we will design a "special unit" for the application.

Pictorial and dimensional data is subject to change without notice.

The information presented in this catalog is based on technical data and test results of nominal units. It is believed to be accurate and is offered as an aid in the selection of Gast products. It is the user's responsibility to determine suitability of the product for intended use and the user assumes all risk and liability whatsoever in connection therewith.

Typical **Applications**



Medical Applications

Air and gas analysis

Blood pressure monitors

Respiration monitors

Portable aspirators

Breast pumps

Body fluid analysis

Sterilizers

Ambulance/emergency vehicles

Portable dental equipment

Aspirators/suction units

Sterilizers/autoclaves

Agriculture Applications

Agricultural foam markers

Crop sprayers

Pest control equipment



Other Applications

Vacuum pick-and-place for electronic industry

Portable dosimeters

Air brushes

Oil atomizers

Tape drives

Ink-jet printers

Package labeling equipment

Lab equipmen

Air and water sampling

Water purification systems

Pond aeration

Automotive emissions testing

Food processing

Graphic arts equipment

Miniature Diaphragm 2D1034 Series Oilless Diaphragm Pump to 0.65 LPM

Ironless Core Motor (DC) 5.5 psi max. pressure, 11 inHg max. vacuum 0.55 LPM open flow

Iron core motor (DC)

5 psi max. pressure, 11 inHg max. vacuum 0.65 LPM open flow

PRODUCT FEATURES

- Can be used as compressor or vacuum pump (same model)
- · Can be mounted in any plane
- · Custom mounting configurations available
- · Head mounts in any of four positions
- · Consult factory for voltage options
- Stroke options available

MATERIALS OF CONSTRUCTION

- EPDM (Ethylene Propylene Diene Monomer) valve and
- Chemically resistant PPS (Polyphenylene Sulfide) for all other wetted components

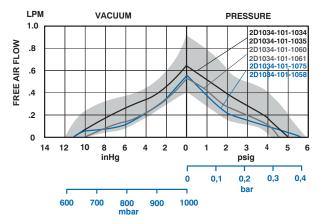
Product Specifications

	Milliamps at Nominal	inal Operating		/eight
Model Number	Voltage	Voltage Range	oz	g
2D1034-101-1060*	30-70	4.5V DC	.56	16
2D1034-101-1061*	25-45	6V DC	.56	16
2D1034-101-1075*	30-80	6V DC	.56	16
2D1034-101-1058*	20-50	7.5 DC	.56	16
2D1034-101-1034**	70-110	6V DC	.56	16
2D1034-101-1035**	45-100	12V DC	.56	16

- * Ironless core motor
- ** Iron core motor

Product Performance

Note: The 2D performance is based on test results of nominal units. Solid lines show standard performance of models in the chart. Shaded area represents capabilities when models are customized for specific requirements. Please consult factory for customized models.

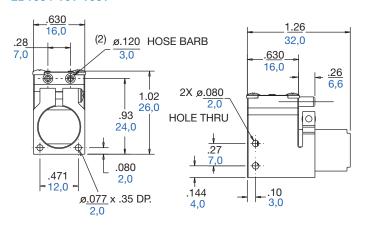




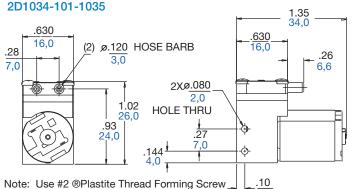
Product Dimensions (inches, mm)

Reference only

2D1034-101-1060 2D1034-101-1061



2D1034-101-1075 2D1034-101-1058 2D1034-101-1034



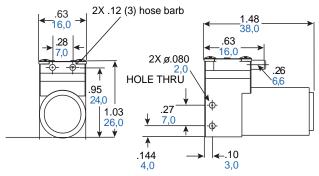
®Plastite is a registered trademark of REMINC (RESEACH ENGINEERING & MANUFACTURING INC.)

Miniature Diaphragm 3D1060 Series Oilless Diaphragm Pump to 1.18 LPM



Product Dimensions (inches, mm)

Reference only



Note: Use #2 ®Plastite Thread Forming Screw ®Plastite is a registered trademark of REMINC (RESEACH ENGINEERING & MANUFACTURING INC.)

Ironless Core Motor (DC)

7.1 psi max. pressure, 11.2 inHg max. vacuum .91" LPM open flow

Iron Core Motor (DC)

6.5 psi max. pressure,11.3 inHg max. vacuum 1.18 LPM open flow

PRODUCT FEATURES

- Can be used as compressor or vacuum pump (same model)
- Can be mounted in any plane
- · Custom mounting configurations available
- · Head mounts in any of four positions
- · Consult factory for voltage options
- Stroke options available

MATERIALS OF CONSTRUCTION

- EPDM (Ethylene Propylene Diene Monomer) valve and diaphragm
- · Chemically resistant PPS (Polyphenylene Sulfide) for all other wetted components

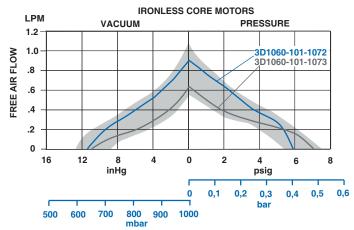
Product Specifications

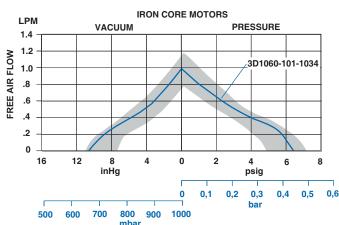
	Milliamps at	Potential Operating	Net Weight		
Model Number	Nominal Voltage	Voltage Range	oz	g	
3D1060-101-1072*	30-60	6V DC	.56	16	
3D1060-101-1073*	15-40	12V DC	.56	16	
3D1060-101-1034**	90-130	6V DC	.56	16	

Ironless core motor

Product Performance

Note: The 3D performance is based on test results of nominal units. Solid lines show standard performance of models in the chart. Shaded area represents capabilities when models are customized for specific requirements. Please consult factory for customized models.





Iron core motor



Miniature Diaphragm 5D1060/5D1070 Series Oilless Diaphragm Pump to 2.6 LPM



Single head model pictured.

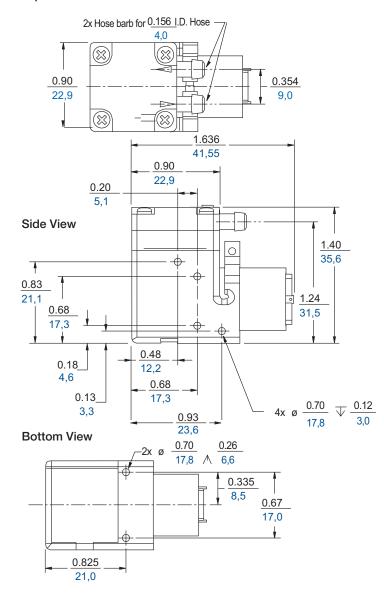
Also available in twin head style.

Product Dimensions (inches, mm)

Reference only

Single Head 5D1060-101-1030 5D1060-101-1073 5D1060-102-1034

Top View



Ironless Core Motor (DC) Single Head

11 psi max. pressure, 13 inHg max. vacuum, .95 LPM open flow

Iron Core Motor (DC) Single Head

8.5 psi max. pressure, 11 inHg max. vacuum, 1.5 LPM open flow

Ironless Core Motor (DC) Twin Head

5 psi max. pressure, 16/22 inHg max. vacuum*, 1.6/2.6 LPM open flow*

PRODUCT FEATURES

- Can be used as compressor or vacuum pump (same model)
- Can be mounted in any plane
- Diaphragm and valve are easily field serviceable, if required
- Custom mounting configurations available
- · Head mounts in any of four positions
- · Consult factory for voltage/stroke options

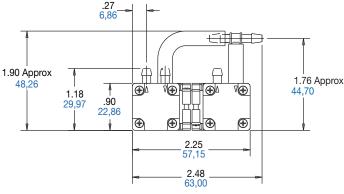
MATERIALS OF CONSTRUCTION

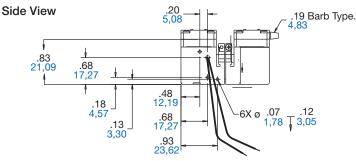
- Chemically resistant PPS (Polyphenylene Sulfide) head assembly
- EPDM (Ethylene Propylene Diene Monomer) valve and diaphragm

Staged/parallel vacuum configuration chart on page 11

Twin Head 5D6070-101-1076

Top View





Product Specifications

	Milliamps at	Potential Operating	Net W	eight
Model Number	Nominal Voltage	Voltage Range	oz	g
5D1060-101-1030*	15-60	12V DC	1.5	42,5
5D1060-102-1034**	90-200	6V DC	1.5	42,5
5D1060-101-1073*	20-50	12V DC	1.5	42,5
5D6070-101-1076* _†	60-160	6V DC	2.0	56,7

^{*} Ironless core motor ** Iron core motor † Twin head model

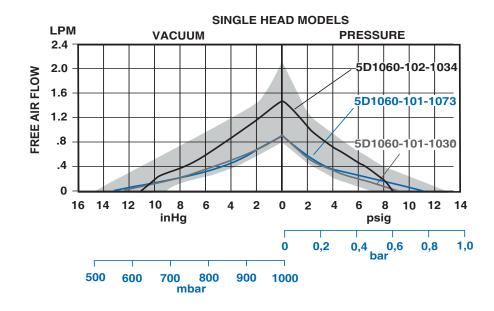
Product Performance

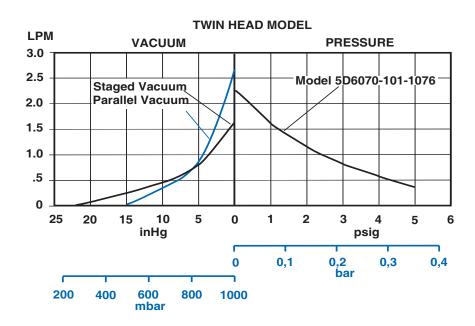
Note: The 5D performance is based on test results of nominal units.

Solid lines show standard performance of models in the chart.

Shaded area represents capabilities when models are customized for specific requirements.

Please consult factory for customized models.





Miniature Diaphragm 10D1110/10D1125 Series Oilless Diaphragm Pump to 4.3 LPM



AC Motor

15 psi max. pressure, 15 inHg max. vacuum 3.8 LPM open flow

DC Motor

15 psi max. pressure, 14 inHg max. vacuum 4.3 LPM open flow

PRODUCT FEATURES

- Use as compressor or vacuum pump (same model)
- Mount in any plane
- Maintenance-free ball bearings are sized for long life
- Diaphragm and valve are easily field serviceable, if required
- Alternate stroke options available
- · Custom mounting configurations available
- · Heads mount in any of four positions
- Heads available with threaded or barbed ports
- Motor equipped with Electromagnetic Interference (EMI) Suppression

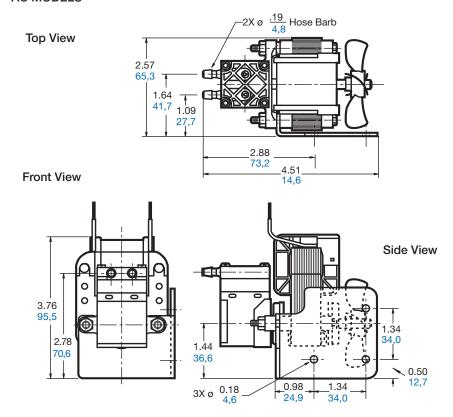
MATERIALS OF CONSTRUCTION

- Head assembly of chemical/heat resistant PPS (Polyphenylene Sulfide) for corrosion resistance
- EPDM (Ethylene Propylene Diene Monomer) valve and diaphragm

Product Dimensions (inches, mm)

Reference only

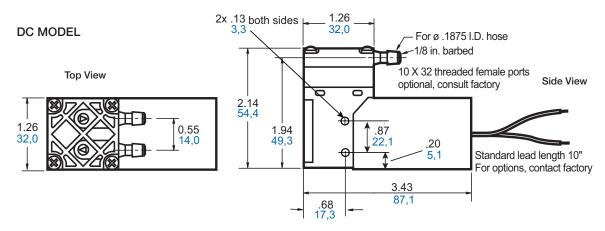
AC MODELS



Miniature Diaphragm 10D1110/10D1125 Series Oilless Diaphragm Pump to 4.3 LPM

Product Dimensions (inches, mm)

Reference only

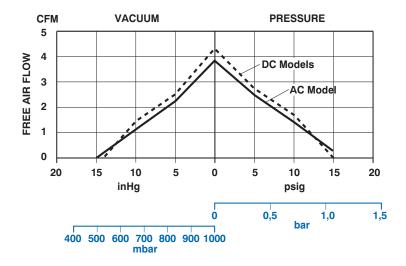


Product Specifications

Model	odel		Net Weight		
Number	Motor	Amp. Draw	lbs	kg	
10D1125-101-1051	6V DC	1	.5	0,23	
10D1125-101-1052	12V DC	.5	.5	0,23	
10D1125-101-1053	24V DC	.3	.5	0,23	
10D1110-101-1043	115-60-1	.6	1.85	0,83	

Product Performance

Note: DC performance data taken at nominal voltage.





Miniature Diaphragm 15D 1150 Series

Oilless Diaphragm Pump to 7.0 LPM



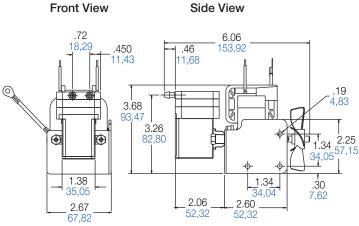


DC Models

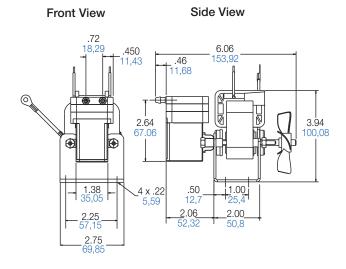
Product Dimensions (inches, mm)

Reference only

AC Units Schematic A (Right Angle Foot Bracket)



AC Units Schematic B (U-Shaped Foot Bracket)



DC Motor

20 psi max. pressure, 20 inHg max. vacuum 7.0 LPM open flow

AC Motor

25 psi max. pressure, 20 inHg max. vacuum 7.0 LPM open flow

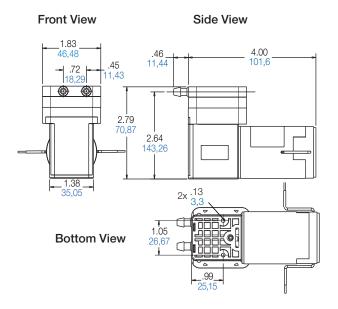
PRODUCT FEATURES

- Flow-enhanced design meets compressed air/vacuum demand
- · Easy install design can be mounted on any plane
- Oversized ball bearings ensure maintenance-free operation
- Robust valve design tolerant of small amounts of intake liquid
- Field serviceable diaphragm/valve designs: K813 (EPDM)
- Ethylene Propylene Diene Monomer, K813A (Neoprene)

MATERIALS OF CONSTRUCTION

- Heat/chemical resistant Polyphenylene Sulfide (PPS) head assembly for greater corrosion resistance
- Ethylene Propylene Diene Monomer (EPDM) diaphragm, Ethylene Propylene Diene Monomer (EPDM) valve assembly. Neoprene diaphragm, neoprene valve assembly. 100 Series models are Ethylene Propylene Diene Monomer (EPDM), 200 Series models are Neoprene

DC Units



Note: Use #2 ®Plastite Thread Forming Screw 3/16" I.D. Tube Hose Best Fit ®Plastite is a registered trademark of REMINC (RESEARCH ENGINEERING & MANUFACTURING)

Miniature Diaphragm 15D 1150 Series Oilless Diaphragm Pump to 7.0 LPM

Product Specifications

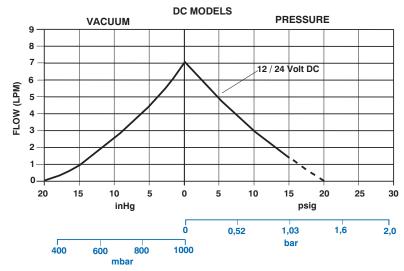
		Maximum Amp Draw		Net W	/eight	Diaphragm
Model Number	Motor	60 Hz	50 Hz	lbs/oz	g/kg	Material
15D1150-101-1006	12 V DC	1.	2	14 oz	397 g	EPDM
15D1150-201-1006	12 V DC	1.	2	14 oz	397 g	Neoprene
15D1150-101-1014	24 V DC	.6		14 oz	397 g	EPDM
15D1150-201-1014	24 V DC	.6	;	14 oz	397 g	Neoprene
15D1150-101-1012**	100-115-60/50-1	.9	.5	2.5 lbs	1,14 kg	EPDM
15D1150-102-1012*	100-115-60/50-1	.9	.5	2.5 lbs	1,14 kg	EPDM
15D1150-201-1012**	100-115-60/50-1	.9	.5	2.5 lbs	1,14 kg	Neoprene
15D1150-101-1021**	230-60/50-1	.9	.5	2.5 lbs	1,14 kg	EPDM
15D1150-202-1021*	230-60/50-1	.9	.5	2.5 lbs	1,14 kg	Neoprene

^{*} Standard right angle foot bracket see schematic A

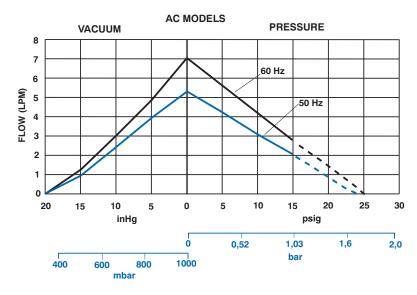
** Optional U-Shaped foot bracket see schematic B

Note: The above units are not EU RoHS

Product Performance



Dashed Line Indicates Intermittent Duty



Dashed Line Indicates Intermittent Duty

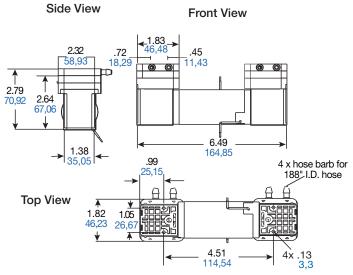


Miniature Diaphragm Twin 15D 5150/7150 Series Oilless Diaphragm Pump to 13 LPM



Product Dimensions (inches, mm)

Reference only



Note: Use #6 ®Plastite Thread Forming Screw ®Plastite is a registered trademark of REMINC (RESEACH ENGINEERING & MANUFACTURING INC.)

Product Specifications

	Motor	Maximum	Net Weight		Diaphragm
Model Number		Amp Draw	oz	kg	Material
15D5150-101-1039*	12 V DC	1. 2	42.5	0,64	EPDM
15D5150-201-1039*	12 V DC	1. 2	42.5	0,64	Neoprene
15D7150-101-1039+	12 V DC	1.5	42.5	0,64	EPDM

- Staged vacuum models shipped with tubing connected to ports
- + Independent models provided with one head as vacuum and one head as pressure

DC Motor

25 psi max. pressure*, 13.0 LPM open flow 26 inHg max. vacuum, 6.0 LPM open flow

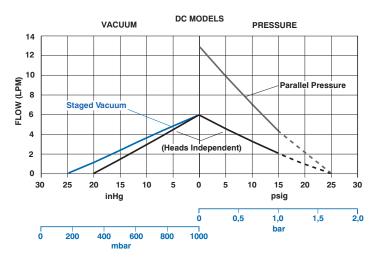
PRODUCT FEATURES

- · Flow-enhanced design meets compressed air/vacuum demand
- Ultra quiet noise level down to 45dB(A)
- Easy install design can be mounted on any plane
- Oversized ball bearings ensure maintenance-free operation
- · Robust valve design tolerant of small amounts of intake liquid
- Field serviceable diaphragm/valve designs: K813 EPDM (Ethylene Propylene Diene Monomer) & K813A (Neoprene)

MATERIALS OF CONSTRUCTION

- Heat/chemical resistant Polyphenylene Sulfide (PPS) head assembly for greater corrosion resistance
- EPDM (Ethylene Propylene Diene Monomer) diaphragm, EPDM (Ethylene Propylene Diene Monomer) valve assembly (standard)
- Neoprene diaphragm, neoprene valve assembly (optional)
- 100 Series models are EPDM (Ethylene Propylene Diene Monomer), 200 Series models are Neoprene

Product Performance



Dashed Line Indicates Intermittent Duty Parallel pressure, staged vacuum

Miniature Diaphragm 22D1180 DC Series

Oilless Diaphragm Pump to 36.8 LPM



Product Dimensions (inches, mm)

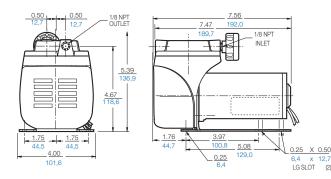
Reference only

22D1180-201-1002 22D1180-201-1005

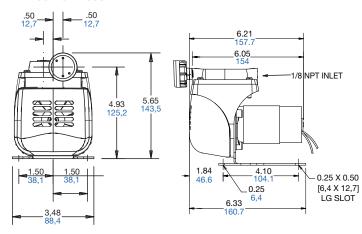
*22D1180-205-1002

*22D1180-202-1005

*Ports in opposite positions to the below diagrams



22D1180-201-1088



Shown with attached filter/muffler

12V & 24V units have the shorter 3.97" mtg foot dimension. 24V units also have the longer 5.08" mtg foot dimension.

DC Motor

25 psi max. pressure, 22.5 inHg max. vacuum 26.8 LPM open flow

PRODUCT FEATURES

- · Permanently lubricated ball bearings on rod and motor drive bearing
- Rear sleeve bearing (1002, 1005 models have ball bearing for higher pressure)
- Field service capability
- · Includes AJ988 filter assembly, unattached

MATERIALS OF CONSTRUCTION

- · Head assembly and bracket made of Polyphenylene Sulfide (PPS) for excellent chemical and heat resistance
- · Stainless steel valves
- · Neoprene/nylon diaphragm standard
- Other diaphragm materials available

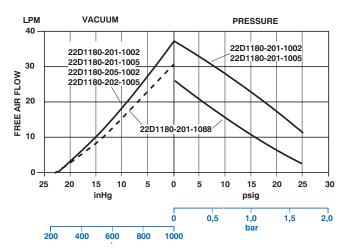
RECOMMENDED ACCESSORIES

- AA640 Vacuum gauge
- AA204 Vacuum relief valve
- AA644B Pressure gauge
- AA203 Pressure relief valve
- AF584A Rubber feet (3)
- · B300Q Muffler/filter (high capacity; to be used in dirty environments or when superior noise reduction is required)

Product Specifications

			Running			Net W	eight
Model Number	Motor	RPM	Amps	HP	kW	lbs	kg
22D1180-201-1088	12V DC	3000	3.6	1/20	0,04	2.7	1,22
22D1180-201-1002	12V DC	3200	6.2	1/8	0,09	4.9	2,21
22D1180-201-1005	24V DC	3200	3.5	1/8	0,09	4.9	2,21
*22D1180-205-1002	12V DC	3200	6.2	1/8	0,09	4.9	2,21
*22D1180-202-1005	24V DC	3200	3.5	1/8	0,09	4.9	2,21

^{*} Ports in opposite positions to the diagrams on the previous page.



Miniature Diaphragm 22D1180 Series

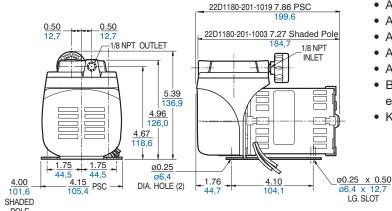
Oilless Diaphragm Pump to 26.3 LPM



Product Dimensions (inches, mm)

Reference only

22D1180-201-1003 22D1180-201-1019 Shown with attached filter/muffler



Shaded Pole Motor

20 psi continuous pressure (25 psi inter.) 22 inHg max. vacuum, 18.7 LPM open flow (60 Hz)

PSC Motor

25 psi max. pressure, 23 inHg max. vacuum 26.3 LPM open flow (60 Hz)

PRODUCT FEATURES

- Permanently lubricated ball bearings on rod and motor drive bearing
- Rear sleeve bearing (DC 1002, 1005 models have ball bearing for higher pressure)
- Field service capability
- · PSC models include attached capacitor
- · Includes AJ988 filter assembly, unattached

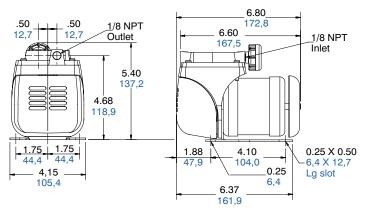
MATERIALS OF CONSTRUCTION

- Head assembly and bracket made of Polyphenylene Sulfide (PPS) for excellent chemical and heat resistance
- · Stainless steel valves
- · Neoprene/nylon diaphragm standard
- Other diaphragm materials available

RECOMMENDED ACCESSORIES

- AA640 Vacuum gauge
- AA204 Vacuum relief valve
- AA644B Pressure gauge
- AA203 Pressure relief valve
- AF584A Rubber feet (3)
- B300Q Muffler/filter (high capacity; to be used in dirty environments or when superior noise reduction is required)
- K588 Service kit Assembled head

22D1180-201-1087 Shown with attached filter/muffler



Miniature Diaphragm 22D1180 Series Oilless Diaphragm Pump to 26.3 LPM

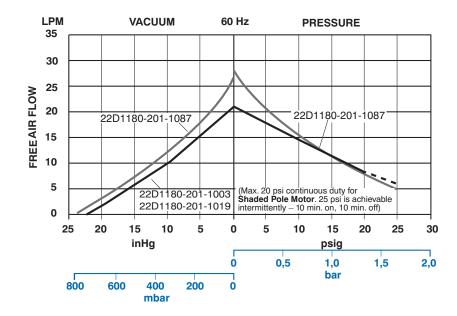
Product Specifications

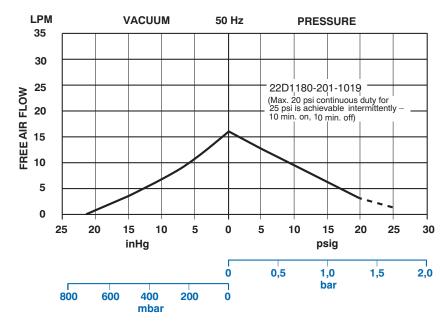
Model Number	Motor	RPM	Running Amps	HP	kW	Net V	Veight kg
22D1180-201-1003	*115-60-1	1725	1.6	1/20	0,04	4.8	2,16
† 22D1180-201-1019	PSC 230-50/60-1	1725	0.8	1/20	0,04	5.5	2,48
22D1180-201-1087	PSC 115-60-1	1725	0.5	1/20	0,04	5.1	2,31

Shaded Pole

Product Performance

Metric, AC model shows 60 Hz performance.





 $[\]dagger$ @60 Hz – 50 Hz is 1425 RPM

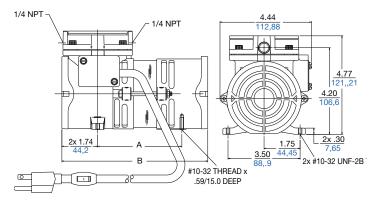


Product Dimensions (inches, mm)

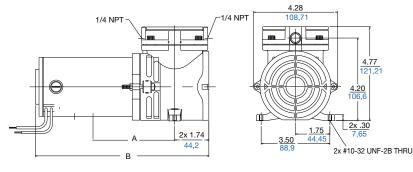
Reference only

AC Models READ /15.0 DEEP 2x #10-32 UNF-2B THRU

AC Models (+ with electrical box)



DC Models



PSC 4 Pole AC

50 psi max. pressure, 24 inHg max. vacuum, .52 CFM open flow (60 Hz)

PSC 2 Pole AC

50 psi max. pressure, 24 inHg max. vacuum, .80 CFM open flow (60 Hz)

DC Low Speed DC

50 psi max. pressure, 24 inHg max. vacuum, .56 CFM open flow

High Speed DC

50 psi max. pressure, 24 inHg max. vacuum, .81 CFM open flow

PRODUCT FEATURES

- Oilless operation
- Motor-mounted
- · Rugged construction
- Low maintenance

INCLUDES

• Capacitors for PSC motors: AG331 (FB, HB, and HD motors), AF873A (FD motor)

RECOMMENDED ACCESSORIES

- Pressure gauge AF583 / Vacuum gauge AA640
- Pressure relief valve AF887 / Vacuum relief valve AA550C-V
- Rubber feet AG505
- Repair kit K309 for all diaphragm units but MOA-P109-AA, which uses Repair kit K309A

	A Di	mension	B Di	mensions
	Inches	Metric	Inches	Metric
MOA-P101-AA	4.09	103,89	7.09	180,09
+MOA-P109-AA	4.09	103,89	7.09	180,09
MOA-V112-AE	4.09	103,76	7.09	180,09
+MOA-V113-AE	4.09	103,89	7.09	180,09
MOA-P101-CA	4.59	116,59	7.59	192,79
+MOA-P109-CA	4.59	116,59	7.59	192,79
MOA-P101-CD	4.59	116,59	7.59	192,79
MOA-V111-CD	4.59	116,59	7.59	192,79
MOA-P108-FB	4.09	103,89	7.09	180,09
MOA-V112-FB	4.09	103,89	7.09	180,09
MOA-P108-FD	4.09	103,89	7.09	180,09
MOA-V112-FD	4.09	103,89	7.09	180,09
MOA-P108-HB	4.59	116,59	7.59	192,79
MOA-P108-HD	4.59	116,59	7.59	192,79
MOA-P101-JH	4.16	105,66	8.84	224,54
MOA-V111-JH	4.16	105,66	8.84	224,54
MOA-P101-JK	4.16	105,66	8.84	224,54
MOA-V111-JK	4.16	105,66	8.84	224,54
MOA-V111-KH	4.16	105,66	8.76	222,50
MOA-P101-KH	4.16	105,66	8.76	222,50

⁺ with electrical box

Product Specifications

MOA-P101-AA 115-60-1 Shaded Pole 1575 1/16 0,05 5.63 2,56 cUI MOA-P101-CA 115-60-1 Shaded Pole 1575 1/16 0,05 5.63 2,56 cUI MOA-P101-CD 220/230-50/60-1 Shaded Pole 1575 1275 1/16 0,05 5.63 2,56 CS MOA-P101-JH 12 Volt DC 1800 1/16 0,05 5.63 2,56 CE MOA-P101-KH 12 Volt DC 3000 1/8 0,09 5.63 2,56 CE	gulatory
MOA-P101-CA 115-60-1 Shaded Pole 1575 1/16 0,05 5.63 2,56 CUI MOA-P101-CD 220/230-50/60-1 Shaded Pole 1575 1275 1/16 0,05 5.63 2,56 CS MOA-P101-JH 12 Volt DC 1800 1/16 0,05 5.63 2,56 CE MOA-P101-KH 12 Volt DC 3000 1/8 0,09 5.63 2,56 CE	7/05
MOA-P101-CD 220/230-50/60-1 Shaded Pole 1575 1275 1/16 0,05 5.63 2,56 CS MOA-P101-JH 12 Volt DC 1800 1/16 0,05 5.63 2,56 CE MOA-P101-KH 12 Volt DC 3000 1/8 0,09 5.63 2,56 CE	R/CE
MOA-P101-JH 12 Volt DC 1800 1/16 0,05 5.63 2,56 CE MOA-P101-KH 12 Volt DC 3000 1/8 0,09 5.63 2,56 CE	R
MOA-P101-KH 12 Volt DC 3000 1/8 0,09 5.63 2,56 CE	A/CE
110.1 17.1 17.1 17.1 17.1 17.1 17.1 17.1	
MOA-P101-JK 24 Volt DC 1800 1/16 0,05 5.63 2,56 CE	
**MOA-P108-FB 110/115-50/60-1 PSC (2 Pole) 3000 2500 1/8 0,09 5.63 2,56 CE	
**MOA-P108-FD 220/230-50/60-1 PSC (2 Pole) 3000 2500 1/8 0,09 5.63 2,56 CS.	A/CE
**MOA-P108-HB 110/115-50/60-1 PSC (4 Pole) 1575 1275 1/16 0,05 5.63 2,56 CUI	R/CE
**MOA-P108-HD 230/220-60/50-1 PSC 1575 1275 1/16 0,05 5.63 2,56 CS.	A/CE
*MOA-P109-AA 115-60-1 Shaded Pole 1575 1/16 0,05 5.63 2,56 UR.	/CSA
*MOA-P109-CA 115-60-1 Shaded Pole 1575 1/16 0,05 5.63 2,56 UR	
MOA-V111-JH 12 Volt DC 1800 1/16 0,05 5.63 2,56	
MOA-V111-KH 12 Volt DC 3000 1/8 0,09 5.63 2,56 CE	
MOA-V111-JK 24 Volt DC 1800 1/16 0,05 5.63 2,56 CE	
MOA-V111-CD 220/230-50/60-1 Shaded Pole 1575 1275 1/16 0,05 5.63 2,56 CS	A/CE
MOA-V112-AE 110/115-50/60-1 Shaded Pole 1575 1275 1/16 0,05 5.63 2,56 CS.	A/CE
**MOA-V112-FB 110/115-50/60-1 PSC (2 Pole) 3000 2500 1/8 0,09 5.63 2,56 CS.	A
**MOA-V112-FD 220/230-50/60-1 PSC (2 Pole) 3000 2500 1/8 0,09 5.63 2,56 CS.	A/CE
*MOA-V113-AE 110/115-50/60-1 Shaded Pole 1575 1275 1/16 0,05 5.63 2,56 CS.	

Cord, switch and plug assembly

CSA - Approved by the Canadian Standards Association

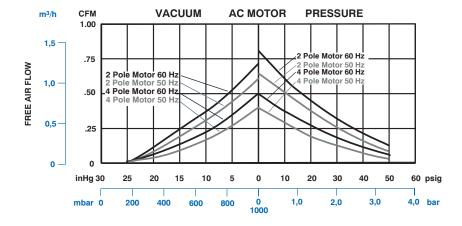
cUR - UL recognized for use in Canada and US

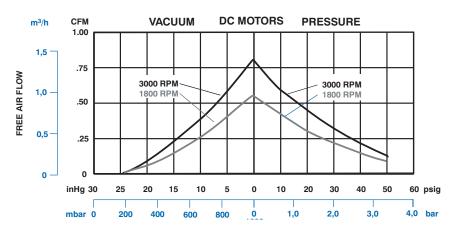
CNL - UL listed for use in Canada and US

CE - Conforms to European Standards

UL - UL Listed for US

UR - UL recognized for US

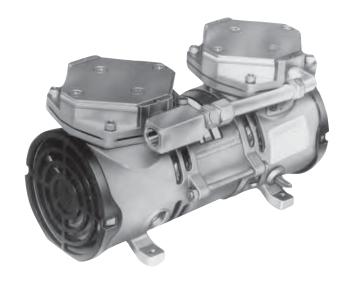




^{**} Capacitor shipped with unit - not attached

MAA Series

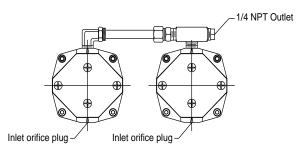
Oilless Diaphragm Pump to 1.58 CFM/2,68 m³/h

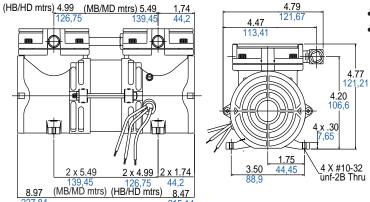


Product Dimensions (inches, mm)

Reference only

Single Staged Shown





(HB/HD mtrs)

PSC 4 Pole, Single Stage

50 psi max. pressure, 1.03 CFM open flow (60 Hz)

PSC 2 Pole, Single Stage

50 psi max. pressure, 1.58 CFM open flow (60 Hz)

PSC 4 Pole, Single Stage

24 inHg max. vacuum, 1.0 CFM open flow (60 Hz)

PSC 2 Pole, Single Stage

24 inHg max. vacuum, 1.4 CFM open flow (60 Hz)

PSC 4 Pole Two Stage

28 inHg max. vacuum, .47 CFM open flow (60 Hz)

PSC 2 Pole, Two Stage

28.5 inHg max. vacuum, .80 CFM open flow (60 Hz)

PRODUCT FEATURES

- Oilless operation
- Motor-mounted
- Rugged construction
- · Low maintenance

INCLUDES

• Capacitors shipped unattached AG331 (4-pole motors), AF485A (2-pole motor)

RECOMMENDED ACCESSORIES

- Pressure gauge AF583, vacuum gauge AA640
- Pressure relief valve AF887, Vacuum relief valve AA550C-V
- Rubber feet (4) AG505
- Repair kit K309 (Use 2)

(MB/MD mtrs)

Product Specifications

			Stages	RF	РМ					
			Vacuum	60	50			Net V	Veight	
Model Number	Motor	Туре	Models	Cycle	Cycle	HP	kW	lbs	kg	Regulatory
**MAA-P102-HB	115/110-60/50-1	PSC (4 pole)	_	1575	1275	1/16	0,05	8	3,6	cUR/CE
**MAA-P102-HD	220/230-50/60-1	PSC (4 pole)	_	1575	1275	1/16	0,05	8	3,6	cUR/CE
**MAA-P102-MB	115/110-60/50-1	PSC (2 pole)	_	3000	2500	1/8	0,09	9	4,1	CE
**MAA-V103-HB	115/110-60/50-1	PSC (4 pole)	One	1575	1275	1/16	0,05	8	3,6	cUR/CE
**MAA-V109-HB	115/110-60/50-1	PSC (4 pole)	Two	1575	1275	1/16	0,05	8	3,6	cUR
**MAA-V109-HD	220/230-50/60-1	PSC (4 pole)	Two	1575	1275	1/6	0,05	8	3,6	cUR
**MAA-V103-MB	115/110-60/50-1	PSC (2 pole)	One	3000	2500	1/8	0,09	9	4,1	CE
**MAA-V109-MB	115/110-60/50-1	PSC (2 pole)	Two	3000	2500	1/8	0,09	9	4,1	CE
**MAA-V109-MD	208-230/	PSC (2 pole)	Two	3000	2500	1/8	0,09	9	4,1	CE
	220-240-60/50-1									

^{**} Capacitor shipped with unit - not attached

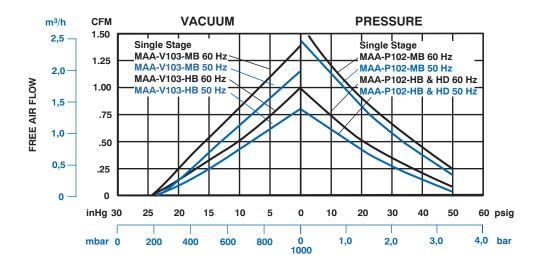
CSA - Approved by the Canadian Standards Association

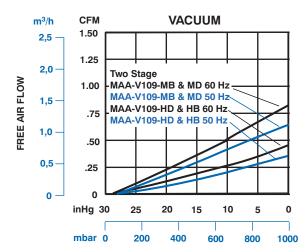
cUR - UL recognized for use in Canada and US

CNL - UL listed for use in Canada and US

CE - Conforms to European Standards

UL – UL Listed for US UR – UL recognized for US





DOA Series

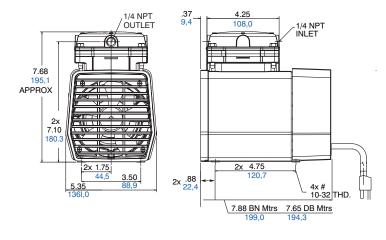
Oilless Diaphragm Unit to 1.9 CFM/3,23 m³/h



Product Dimensions (inches, mm)

Reference only

AC Models



Shaded Pole/ PSC 4 Pole

60 psi max. pressure, 25.5 inHg max. vacuum 1.1 CFM open flow (60 Hz)

PSC 2 Pole

60 psi max. pressure, 25.5 inHg max. vacuum 1.9 CFM open flow (60 Hz)

Low Speed DC (Brush Type)

60 psi max. pressure, 25.5 inHg max. vacuum 1.1 CFM open flow

High Speed DC (Brush Type)

60 psi max. pressure, 25.5 inHg max. vacuum 1.9 CFM open flow

PRODUCT FEATURES

- Oilless operation
- Motor mounted
- · Rugged construction/low maintenance

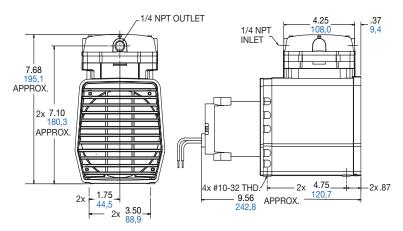
INCLUDES

- Muffler AH190A for vacuum
- Capacitor AF873A unattached (DB and DD motors)
- Capacitor AF485A unattached (FB motor)
- Capacitor AF876 unattached (FD motor)

RECOMMENDED ACCESSORIES

- Pressure gauge AF583 / Vacuum gauge AA640
- Pressure relief valve AF887 / Vacuum relief valve AA550C-V
- Rubber feet (4) AF584A
- Repair kit K294A

DC Models

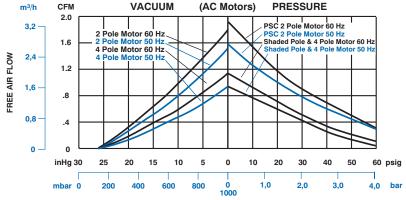


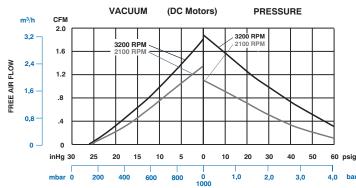
Product Specifications

Note: "P" model are pressure; "V" models are vacuum only

Model			RF	PM			Net W	/eight	
Number	Motor	Motor Type	60 Hz	50 Hz	HP	kW	lbs	kg	Regulatory
*DOA-P701-AA	115-60-1	Shaded pole	1575		1/8	0,09	14.5	6,6	UL/CNL
**DOA-P703-AA	115-60-1	Shaded pole	1575		1/8	0,09	16.0	6,6	UL/CNL
*DOA-P701-AC	230-60-1	Shaded pole	1575		1/8	0,09	14.5	6,6	CSA
***DOA-P501-BN	220/240-50-1	Shaded pole		1275	1/8	0,09	14.5	6,6	CE
+DOA-P509-BN	220/240-50-1	Shaded pole		1275	1/8	0,09	16.0	7,3	CE
DOA-P501-DB	115/110-60/50-1	PSC (4 pole)	1575	1275	1/8	0,09	14.5	6,6	CE
DOA-P501-DD	230/220-60/50-1	PSC (4 pole)	1575	1275	1/8	0,09	14.5	6,6	cUR
DOA-P501-FB	115/110-60/50-1	PSC (2 pole)	3000	2500	1/3	0,25	14.5	6,6	cUR
##DOA-P703-FB	115/110-60/50-1	PSC (2 pole)	3000	2500	1/3	0,25	14.5	6,6	UL/CNL
DOA-P501-FD	230/220-60/50-1	PSC (2 pole)	3000	2500	1/3	0,25	14.5	6,6	UL/CNL/CE
#DOA-P518-FD	230/220-60/50-1	PSC (2 pole)	3000	2500	1/3	0,25	14.5	6,6	cUR/CE
DOA-P501-JH	12 Volt	DC	2	2100		0,09	13.0	5,9	CE
DOA-P501-KH	12 Volt	DC	3	200	1/8	0,09	13.0	5,9	
DOA-P501-JK	24 Volt	DC	2	100	1/8	0,09	13.0	5,9	CE
*DOA-V722-AA	115-60-1	Shaded pole	1575		1/8	0,09	14.5	6,6	UL/CNL
*DOA-V702-AC	230-60-1	Shaded pole	1575		1/8	0,09	14.5	6,6	CSA
***DOA-V502-BN	220/240-50-1	Shaded pole		1275	1/8	0,09	14.5	6,6	CE
DOA-V502-DB	115/110-60/50-1	PSC (4 pole)	1575	1275	1/8	0,09	14.5	6,6	CSA/CE
DOA-V502-DD	230/220-60/50-1	PSC (4 pole)	1575	1275	1/8	0,09	14.5	6,6	cUR/CE
DOA-V502A-FB	115/110-60/50-1	PSC (2 pole)	3000	2500	1/3	0,25	14.5	6,6	UR/cUR
DOA-V502A-FD	230/220-60/50-1	PSC (2 pole)	3000	2500	1/3	0,25	14.5	6,6	cUR/CE
DOA-V502-JH	12 Volt	DC	21	00	1/8	0,09	13.0	5,9	CE
DOA-V502-JK	24 Volt	DC	21	00	1/8	0,09	13.0	5,9	CE

- * Includes cord and plug
- ** Unloader model, includes cord and plug (no rubber feet or handle)
- Includes cord no plug
- VDE Listed model. Includes unloader valve, rubber feet, and carrying handle
- Capacitor mounted in mini-box (add 1.54 (39,1) to width), two meter cord (European color-coded), no plug
- Capacitor mounted in mini-box (add 1.54 (39,1) to width), cord, and plug
- CSA Approved by the Canadian Standards Association
- cUR UL recognized for use in Canada and US
- CNL UL listed for use in Canada and US
 - CE Conforms to European Standards
 - UL UL Listed for US
- UR UL recognized for US







PSC 4 Pole

60 psi max. pressure, 2.4 CFM open flow (60 Hz)

PSC 2 Pole

60 psi max. pressure, 3.8 CFM open flow (60 Hz)

PSC 4 Pole Two Stage

25.5 inHg max. vacuum, 2.2 CFM open flow (60 Hz)

PSC 2 Pole Two Stage

25.5 inHg max. vacuum, 3.6 CFM open flow (60 Hz)

PSC 4 Pole Two Stage

29.0 inHg max. vacuum, 1.15 CFM open flow (60 Hz)

PSC 2 Pole Two Stage

29.0 inHg max. vacuum, 2.0 CFM open flow (60 Hz)

PRODUCT FEATURES

- Oilless operation
- Motor mounted
- Rugged construction/low maintenance

INCLUDES

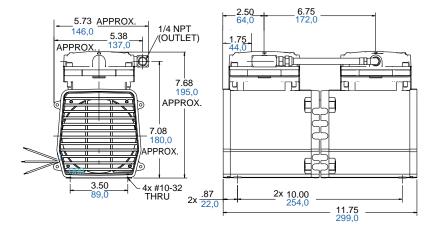
- Muffler AH190A for vacuum
- Capacitor AF876 (EB motors), AF873A (ED motors), AF485A (GB and GD motors)

RECOMMENDED ACCESSORIES

- Pressure gauge AF583 / Vacuum gauge AA640
- Pressure relief valve AF887 / Vacuum relief valve AA550C-V
- Rubber feet (4) AF584A
- Repair kit K294A (use 2)

Product Dimensions (inches, mm)

Reference only



DAA Series Oilless Diaphragm Pump 3.6 CFM/6,12 m³/h

Product Specifications

Note: "P" model are pressure; "V" models are vacuum only

Model		Motor Type RPM		PM			Net V	Veight	
Number	Motor	Stages for Vacuum Models	60 Hz	50 Hz	HP	kW	lbs	kg	Regulatory
DAA-P501-EB	115/110-60/50-1	PSC (4 pole)	1575	1275	1/4	0,19	28	12,7	cUR/CE
DAA-P501-ED	230/220-60/50-1	PSC (4 pole)	1575	1275	1/4	0,19	28	12,7	cUR/CE
*DAA-P517-ED	230/220-60/50-1	PSC (4 pole)	1575	1275	1/4	0,19	28	12,7	cUR/CE
**DAA-P513-EG	240-50-1	PSC (4 pole)		1275	1/4	0,19	28	12,7	CE
***DAA-P501-GB	115/110-60/50-1	PSC (2 pole)	3000	2500	1/2	0,37	28	12,7	cUR
+DAA-P503-GB	115/110-60/50-1	PSC (2 pole)	3000	2500	1/2	0,37	28	12,7	cUR/CE
***DAA-P501-GD	230/220-60/50-1	PSC (2 pole)	3000	2500	1/2	0,37	28	12,7	cUR/CE
+DAA-P503-GD	230/220-60/50-1	PSC (2 pole)	3000	2500	1/2	0,37	28	12,7	cUR/CE
++DAA-P512-GD	230/220-60/50-1	PSC (2 pole)	3000	2500	1/2	0,37	28	12,7	cUR/CE
DAA-V505-EB	115/110-60/50-1	PSC (4 pole) single stage	1575	1275	1/4	0,19	23	10,4	cUR
DAA-V502-EB	115/110-60/50-1	PSC (4 pole) two stage	1575	1275	1/4	0,19	23	10,4	cUR/CE
DAA-V505-ED	230/220-60/50-1	PSC (4 pole) single stage	1575	1275	1/4	0,19	23	10,4	cUR/CE
DAA-V502-ED	230/220-60/50-1	PSC (4 pole) two stage	1575	1275	1/4	0,19	23	10,4	cUR
**DAA-V510-EG	240-50-1	PSC (4 pole) two stage		1275	1/4	0,19	23	10,4	CE
DAA-V505-GB	115/110-60/50-1	PSC (2 pole) single stage	3000	2500	1/2	0,37	23	10,4	cUR
DAA-V507-GB	115/110-60/50-1	PSC (2 pole) two stage	3000	2500	1/2	0,37	23	10,4	cUR
DAA-V505-GD	230/220-60/50-1	PSC (2 pole) single stage	3000	2500	1/2	0,37	23	10,4	cUR/CE
DAA-V507-GD	230/220-60/50-1	PSC (2 pole) two stage	3000	2500	1/2	0,37	23	10,4	cUR/CE

- * Available only in Europe capacitor mounted on unit in mini-box. (European color-coded), no plug
- ** Capacitor mounted on unit in mini-box, two meter cord (European color-coded), no plug
- No capacitor, parallel manifold for pressure (single stage only)
- + Capacitor unattached, parallel manifold for pressure (single stage only)
- ++ Capacitor attached, parallel manifold for pressure (single stage only)

CSA - Approved by the Canadian Standards Association

cUR - UL recognized for use in Canada and US

CNL - UL listed for use in Canada and US

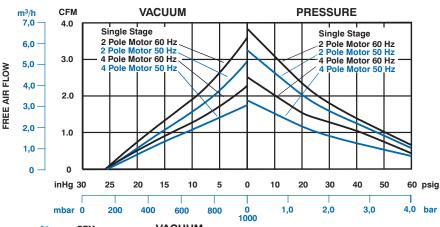
CE - Conforms to European Standards

UL - UL Listed for US

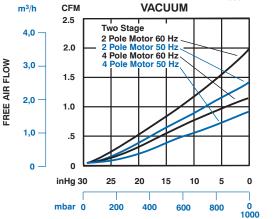
UR - UL recognized for US

Product Performance

Single Stage



Two Stage



DOA Lab Models

Oilless Diaphragm Unit to 1.9 CFM/3,23 m³/h



Shaded Pole

60 psi max. pressure, 25.5 inHg max. vacuum 1.1 CFM open flow (60 Hz)

PRODUCT FEATURES

- Oilless operation
- Motor mounted
- Rugged construction/low maintenance

INCLUDES

- Gauges Vacuum AE136, Pressure AA806
- Hose barbs AG613
- Regulators Vacuum AA550C-V, Pressure AF887
- Carrying handle AP523A
- Rubber feet AF584A

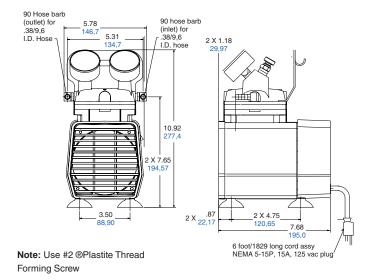
RECOMMENDED ACCESSORIES

• Repair kit K294J

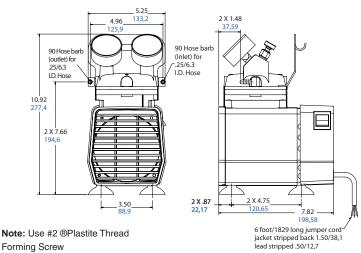
Product Dimensions (inches, mm)

Reference only

DOA-P704-AA



DOA-P504-BN



Forming Screw



DOA Lab Models

Oilless Diaphragm Unit to 1.9 CFM/3,23 m³/h

Product Specifications

Model		Motor	RPM				Net W	/eight	
Number	Motor	Туре	60 Hz	50 Hz	HP	kW	lbs	kg	Regulatory
DOA-P704-AA	115-60-1	Shaded pole	1575		1/8	0,09	16.0	7,3	UL/CNL
DOA-P504-BN	220/240-50-1	Shaded pole		1275	1/8	0,09	16.0	7,3	CE

CSA - Approved by the Canadian Standards Association

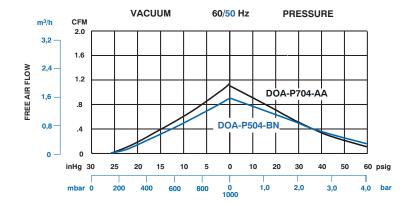
cUR - UL recognized for use in Canada and US

CNL - UL listed for use in Canada and US

CE - Conforms to European Standards

UL - UL Listed for US

UR – UL recognized for US



DOA Corrosion Resistant

Oilless Vacuum Pump and Compressor



Shaded Pole

25 inHg max. vacuum, .95 CFM open flow (50 Hz)

PRODUCT FEATURES

- Oilless operation
- Motor-mounted
- · Rugged construction
- Low maintenance

MATERIALS OF CONSTRUCTION

- · ®Teflon coated head assembly
- · Stainless steel valves
- ®Neoprene diaphragm
- ®Teflon diaphragm cover

INCLUDES

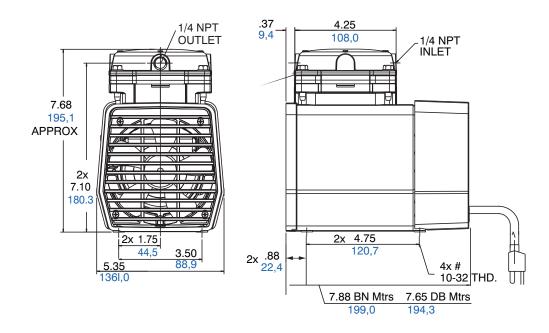
Capacitor

RECOMMENDED ACCESSORIES

- Pressure gauge AF583 / Vacuum gauge AA640
- Pressure regulator AF887 / Vacuum regulator assyAA550C-V
- (4) Rubber feet AF584A
- Repair kit K294A for Shaded Pole
- Repair kit K294H for PSC motor

Product Dimensions (inches, mm)

Reference only



Product Specifications

Model	Model		РМ			Net We	ight	
Number	Motor and Motor Type	60 Hz	50 Hz	HP	kW	lbs	kg	Regulatory
DOA-V505-BN	Shaded pole 220/240-50-1	1275		1/8	0,09	19.0	8,6	CE
DOA-P701-DB	PSC 110/115-50/60-1 motor	1575	1275	1/8	0,09	20.0	9,0	CSA

CSA - Approved by the Canadian Standards Association

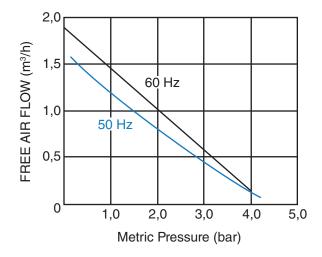
cUR - UL recognized for use in Canada and US

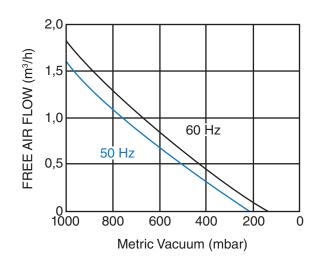
CNL - UL listed for use in Canada and US

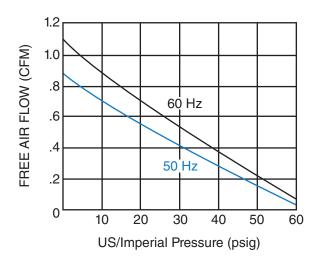
CE - Conforms to European Standards

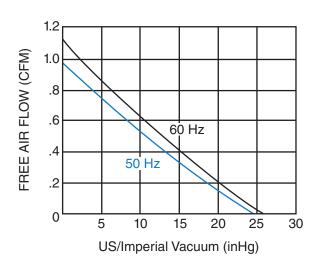
UL - UL Listed for US

UR - UL recognized for US







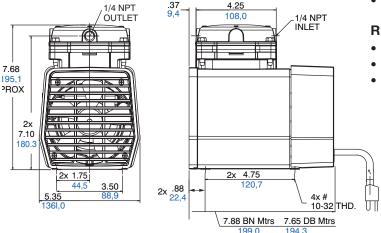


DOL Medical Dental Units Oilless Diaphragm Unit to 1.1 CFM/3,23 m3/h



Product Dimensions (inches, mm)

Reference only



Shaded Pole/PSC 4 Pole

60 psi max. pressure, 25.5 inHg max. vacuum 1.1 CFM Open Flow (60 Hz)

PRODUCT FEATURES

- Oilless operation
- Motor mounted
- Rugged construction/low maintenance
- Meets UL standard 544, CUL and CNL of UL1450 &CSA C22.2 No. 68-92

INCLUDES

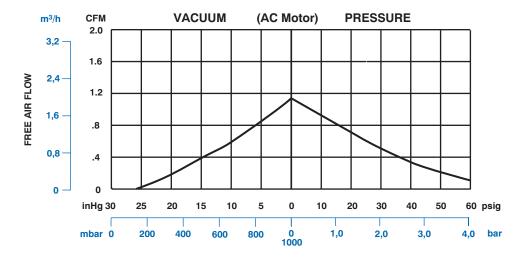
- · Cord and hospital grade plug
- Carrying handle AP523A
- Mounted on/off switch
- Rubber feet AF584A

RECOMMENDED ACCESSORIES

- Pressure gauge AF583 / Vacuum gauge AA640
- Pressure relief valve AF887 / Vacuum relief valve AA550C-V
- Repair kit K294A

Product Specifications

Model			RI	RPM			Net W	eight	
Number	Motor	Motor Type	60 Cycle	50 Cycle	HP	kW	lbs	kg	Regulatory
DOL-701-AA	115-60-1	Shaded pole	1575		1/8	0,09	14.8	6,7	UL/CNL





DOA-706T-AA

Diaphragm Compressor Mounted on a 2 Gallon Tank



PRODUCT FEATURES

- AE163A pressure switch
- AE248 manual drain
- AS100B pressure safety valve (ASME)
- AA806 pressure gauge
- Globe valve
- · Unloading capability
- 100% oilless operation

APPLICATIONS

- · Beverage dispensing
- Lab use
- Portable displays
- Commercial door actuation
- Portable off site use

RECOMMENDED ACCESSORIES

Repair kit K294A

Product Specifications

	Tank Size		CI	FM @ PS	iG			ON/OFF	0 to 50	Recovery of Standard	Motor	Ship	ping eight
Model Number	Gallons	0	10	30	50	70	100		Setting			HP	lbs
DOA-P706T-AA	2	1.00	.85	.50	.20	-	-	30/50	1:30	0:55	115-60-1	1/8	39

When to specify a compressed air or vacuum tank system

Many find it difficult to decide whether to use stand-alone pumps or complete tank packages for their applications.

The tank system offers many advantages, which satisfy:

High Volumes

If your application requires an instantaneous supply of high pressure or vacuum, then the reservoir provided by a tank system is essential. Even the largest of pumps has to start at atmospheric pressure and therefore will not be able to give that instantaneous supply of pressure/vacuum.

Cost Savings

Using a tank system can reduce initial maintenance and replacement costs. Here's why: Applications that require high volumes of air in intermittent cycles can use relatively small pumps. The longer the interval between cycles, the more applicable a tank system can be. For example, a 1 HP compressor on a tank can supply the same amount of flow for one minute as a stand alone 10 HP compressor.

Quiet Operation

In a tank system the pump runs on demand, which means that it is not operating a good part of the time. No operation, no operating noise.

Pulse Free

Pulse-free air is required by many pneumatic systems for proper operation of pneumatic tools or components. A tank provides pulsation free air from the reciprocating compressor.

Central System

Small industrial shops where different tools are required at different times find tank systems ideal, since one tank system can supply air to multiple locations.



	Part No	Description	Used On
Capacitor	AF876	EB, FD Motors	DAA
	AF873A	DB, DD, ED, and FD Motors	DOA
	AF485A	FB, GB, and GD Motors	DAA
	AG331	FB, HB, HD, and 4 Pole Motors	MAA
	AF485A	2-Pole motor PSC Motors:	
	AF873A	FD Motor	MOA
Drains	AE248	Manual Drain Cock, 1/4" NPTM	Diaphragm tank units;
Filter/Muffler Assembly	AA617G		DOA, DAA
Gauge	AF583	1/4" NPT, 0-160 PSI	DOA
Handle	AF870	Stamped Aluminum	DOA
	AP523A		DOA, LAB, DOL Medical unit
Hose Barbs	AG613		Diaphragm lab and tank units
Muffler	AF353A		DOA, MOA,DAA
	AH190A		Vacuum DAA Series, MAA
	B300Q	High capacity; to be used	22D
		in dirty environments or when	
		superior noise reduction is required	
Pressure Gauge	AA806		DOA, DAA, Diaphragm pumps
	AA644B		22D
	AF583		DOA, DOL Medical unit, corrosive resistant
			Diaphragm MAA, MOA
Pressure Relief Valve	AF887		DOL Medica unit, DOA MAA, MOA
	AA203		22D
Pressure Safety Valve	AS100B		Diaphragm tank units
Pressure Switch	AE163A		Diaphragm tank unit



	Part No	Description	Used On
Regulators	AA806		Diaphragm lab models, Diaphragm tank
	AA550C-\	/, Vacuum	DOL Medical unit, DOA lab,
			DOA Corrosive resistant
AF887, Pressure	DOL Medi	cal unit, DOA lab,	
			DOA Corrosive resistant
Rubber Feet	AG505		MOA, MAA
	AF584A		22D, DOA, DOL medical, DOA Lab
			DOA corrosive resistant
Service Kits	K294A		Diaphragm tank units, DOL medical
			Units, Shaded pole, DOA Corrosive resistant,
	K294J		DOA Lab unit
	K294K		DOA, DAA (use 2)
	K309		All diaphragm units except
			MOA-P109-AA, MAA use 2
	K309A`		MOA-P109-A
	K588	Assembled head	22D
	K588A	Old style head	22D
	K788		5D
	K811		10D
	K813	EPDM	15D
	K813A	Neoprene	15D
Tank Assemblies	AF599D	2 gallon tank assembly	DOA/ROA-P106T-AA
(complete package min	us pump)		
Vacuum Gauge	AE136		Diaphragm lab models
	AA640		DOL Medical unit, DOA MAA. MOA
	AA640		22D
Vacuum Relief Valve	AA550C-\	/	DOL Medical unit, MAA, MOA
	AA204		22D



Gast Manufacturing, Inc.

A Unit of IDEX Corporation
Post Office Box 97
2300 M-139 Highway
Benton Harbor, Michigan 49023-0097
Phone 269-926-6171
Fax 269-925-8288
www.gastmfg.com

Gast Hong Kong

Room 6, 9/F, New Commerce Centre 19 On Sum Street, Shatin Hong Kong Phone 852-2690-1008 Fax 852-2690-1012

Gast Group Ltd.

A Unit of IDEX Corporation
Unit 11, The I O Centre
Nash Road
Redditch, B98 7AS
United Kingdom
Phone +44 (0)1527-504040
Fax +44 (0)1527-525262

