Vacuum Cup Dimensions

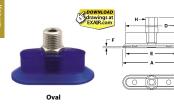
EXAIR vacuum cups are vinyl. They are ideal for general purpose applications and provide excellent resistance to wear. The Durometer rating (used to indicate the flexibility and stiffness of the cup) is A50. Temperature range is 32° to 125°F (0° to 52°C).



Small Round



Large Round





Bellows

Vacuum Cups - Small Round									
Model		Α	В	с	D	E	F	G	Cleats
900752	in	1.00	1.12	0.25	0.81	0.45	0.17	1/4	No
900732	mm	25	28	6	21	11	4	FNPT	
900753	in	1.50	0.90	0.28	1.25	1.06	0.12	1/4	Yes
900755	mm	38	23	7	32	27	3	FNPT	
900754	in	2.00	1.00	0.25	1.56	1.31	0.18	1/4	Yes
500734	mm	51	25	6	40	33	5	FNPT	
900755	in	2.50	1.80	0.72	1.35	0.95	0.62	1/4	Yes
900755	mm	64	46	18	34	24	16	FNPT	
900756	in	3.50	1.10	0.56	0.98	0.51	0.37	1/4	No
900/30	mm	89	28	14	25	13	9	FNPT	

	Vacuum Cups - Large Round									
Model		Α	В	с	D	E	F	G	Cleats	
900757	in	3.25	1.15	0.50	2.23	1.87	0.37	3/8	Yes	
900757	mm	83	29	13	57	47	9	FNPT	res	
900758	in	3.25	1.15	0.50	2.23	1.87	0.37	1/4	Yes	
900738	mm	83	29	13	57	47	9	FNPT		
900759	in	4.25	1.18	0.50	2.75	2.43	0.37	3/8	Yes	
900759	mm	108	30	13	70	62	9	FNPT		
900760	in	5.00	1.75	1.12	3.25	2.65	0.62	3/8	Yes	
900700	mm	127	44	28	83	67	16	FNPT		
900761	in	6.00	1.31	0.50	4.75	4.90	0.12	1/2	Vac	
900761	mm	152	33	13	121	124	3	FNPT	Yes	

Vacuum Cups - Oval										
Model		Α	В	с	D	Е	F	G	н	Cleats
900762	in	1.00	1.06	0.12	0.81	0.76	0.09	0.50	1/8 MNPT	No
	mm	25	27	3	21	19	2	13		
900763	in	2.00	1.06	0.12	1.81	1.76	0.09	0.50	1/8 MNPT	No
	mm	51	27	3	46	45	2	13		
900764	in	1.73	1.03	0.21	1.35	1.21	0.09	0.87	1/8 MNPT	Yes
	mm	44	26	5	34	31	2	22		
000765	in	2.96	0.93	0.19	0.92	2.34	0.20	1.47	1/8 FNPT	Ne
900765	mm	75	24	5	23	59	5	37		No

Vacuum Cups - Bellows										
Model		Α	В	с	D	E	F	G	н	Cleats
900766	in	0.73	1.43	0.75	0.67	0.45	0.79	3	1/4 FNPT	No
900766	mm	19	36	19	17	11	20	2		
000767	in	1.00	1.48	0.85	0.56	0.44	0.85	4	1/8 FNPT	No
900767	mm	25	38	22	14	11	22			
	in	1.50	1.12	0.71	1.06	1.00	0.31	1	1/4 FNPT	Yes
900768	mm	38	28	18	27	25	8			
	in	2.00	1.54	0.89	1.00	1.17	0.68	1	1/4 FNPT	Yes
900769	mm	51	39	23	25	30	17			
	in	2.50	2.40	1.75	1.00	1.12	1.80	2	1/4 FNPT	N.,
900770	mm	64	61	44	25	28	46			No
000771	in	3.25	3.00	2.20	1.00	1.53	2.00	2	3/8	Ne
900771	mm	83	76	56	25	39	51	2	FNPT	No

MNPT = NPT Male FNPT = NPT Female

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Increased Energy And Vacuum Efficiency

Energy and vacuum efficiency are not limited to the Adjustable E-Vac vacuum generators. All E-Vac styles and models can offer significant improvements when looking to reduce the amount of compressed air used for a specific vacuum application. Once the appropriate amount of vacuum and flow for the application are determined, it is important to select the appropriate model that will deliver the best performance while using the least amount of compressed air that it takes to do the job.

Many companies have a centralized vacuum system where the vacuum is generated at a location that is far away from the point of use. The long runs of piping through the plant produce line loss and it is often difficult to obtain that perfect balance of vacuum and flow required for an application. The compact, In-line E-Vac vacuum generators eliminate this problem since they can be mounted at the point where the vacuum source is needed. EXAIR's Application Engineers can help you to select the E-Vac vacuum generator and vacuum cups that provide the right amount of lifting capability while minimizing the amount of compressed air usage.

Other Applications For E-Vac

E-Vacs are used in many other "non-lifting" applications. They are commonly used for vessel evacuation, clamping, chucking, and other work holding applications. Many types of automated equipment use vacuum to evacuate, grip, hold, align and insert parts. These vacuums can be used for surface mounting, vacuum packaging, bag opening, label placement, carton forming and container evacuation.

Another popular application is using the E-Vac for liquid sampling. This process can easily be accomplished using an E-Vac vacuum generator attached to a liquid holding tube. When the tube is dipped into a vat, tank or container, the compressed air is turned on so it draws a specific volume of liquid up into the tube. When the compressed air is turned off, the liquid flows from the tube and can be dispensed into a container or machine to be analyzed.

Accessories Needed To Build Your Vacuum System

EXAIR offers a variety of mufflers, tubing, check valves, and fittings shown on page 140 that make it easy to build a vacuum system best suited to your vacuum application.

When using E-Vac vacuum generators, it is important to use a source of clean, dry compressed air that will keep them operating at their peak performance. Automatic drain filter separators to keep the compressed air free of contaminants and moisture can be found on page 201. Oil removal filters that remove oil particulates that are common to many compressed air systems are also shown. Pressure regulators, shutoff valves, compressed air hose, and solenoid valves (to electrically turn the compressed air on and off) can be found on page 202 through 206.

Mufflers

Optional silencing mufflers are available that permit maximum exhaust of the E-Vac unit so cycle speed is not reduced. The Standard Muffler (for use with In-Line E-Vacs only) has a closed end and is suitable for applications that are free of dust and debris. The Straight Through Muffler is recommended where particulates are present since it will not accumulate debris that can erode performance. Straight Through Mufflers offer the best sound level reduction (up to 26 dBA). Sound levels are shown on pages 132, 133 and 136.

Fittings and Tubing

The vacuum port of the E-Vac has an NPT thread (a vacuum cup can be threaded directly into it). For vacuum cups that are remotely located, push-in connector fittings (most have global threads for use with NPT and BSP), or hose barb fittings can be installed on the E-Vac and the vacuum cup. Polyurethane vacuum tubing is available (10', 20', 30', 40' and 50' lengths) to connect them. For best performance, the length of the tubing should be minimized to achieve the best attach and release times.

Check Valve

A vacuum check valve is available to hold the vacuum in case of compressed air loss. E-Vac vacuum generators that are used without a check valve will release the load if there is a significant drop in compressed air pressure or the supply of compressed air is lost. Vacuum Generators



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E-Vac® Vacuum Generators

	Mufflers								
	Standard								
	Model		escription	Thread					
	900800		andard Muffler	1/4 MNPT					
	900801		andard Muffler	3/8 MNPT					
	900802	Sta	andard Muffler	1/2 MNPT					
EXAIR	Straight Through								
	Model	De	escription	Thread					
	890001	Sti	raight Through	1/4 MNPS					
	890002	Sti	raight Through	3/8 MNPS					
	890003	Sti	raight Through	1/2 MNPS					
	890004	Sti	raight Through	3/4 MNPS					
	890005	Sti	aight Through	1 MNPS					
7			Check Valves						
9	Model	De	escription	Thread					
	900804	Ch	eck Valve	1/4 FNPT					
	900805	Ch	ieck Valve	3/8 FNPT					
	900806	Ch	eck Valve	1/2 FNPT					
			E-Vac Accessories						
	Push-In Connector								
	Model		Description						
	900773		1/4 Tube x 1/8 FNPT						
	900774		1/4 Tube x 1/8 Male Global Thread						
	900775		1/4 Tube x 1/4 Male Globa	al Thread					
	900776	5	1/4 Tube x 3/8 Male Glob	al Thread					
	900777	,	3/8 Tube x 1/8 Male Glob	al Thread					
	900778		3/8 Tube x 1/4 Male Glob	al Thread					
	900779		3/8 Tube x 3/8 Male Globa	al Thread					
	900780		3/8 Tube x 1/2 Male Globa	al Thread					
	Push-In Swivel Elbow Connector								
14- Tunny	Mode		Description						
	900781	1	1/4 Tube x 1/8 Male Global Thread						
	900782	2	1/4 Tube x 1/4 Male Global Thread						
	900783		1/4 Tube x 3/8 Male Globa						
	900784		3/8 Tube x 1/8 Male Global Thread						
	900785		3/8 Tube x 1/4 Male Global Thread						
	900786		3/8 Tube x 3/8 Male Global Thread						
	900787		3/8 Tube x 1/2 Male Glob	al Thread					
+			el Branch Tee Connector						
	Model		Description						
	900788		1/4 Tube x 1/8 Male Globa						
		,	1/4 Tube x 1/4 Male Globa	ai inread					
			2/0 Tuba v 1/4 Mal	I Thursday					
	90079		3/8 Tube x 1/4 Male Globa 3/8 Tube x 3/8 Male Globa						

	E-Vac Accessories - continued									
##S	Push-In Bulkhead Connector									
	Model	Description								
	900792	Female Union - 1/4 Tube x 1/4 Tube								
	900793	Female Union - 3/8 Tube x 3/8 Tube								
	900809	Female Union - 1/4 Tube x 1/4 NPT								
	900810	Female Union - 3/8 Tube x 1/4 NPT								
3	Vacuum Tub	ing								
	Tubing lengths are 10', 20', 30', 40', and 50'. Select the tubing model number (diameter) and indicate the length with a dash. Example: A Model 900795 20 is 1/4" tubing x 20' long.									
	Model	Description								
	900795-	1/4" O.D. Polyurethane Tubing								
	900796-	3/8" O.D. Polyurethane Tubing								
	Mounting Cl	Mounting Clip								
	Model	Description								
	900798	Mounting Clip with Strap								
	Hose Barbs									
	Model	Description								
	900969	1/4 MNPT x 1/4 Hose Barb								
	900970	1/4 MNPT x 3/8 Hose Barb								
	900971	1/4 MNPT x 1/2 Hose Barb								
	900972	1/2 MNPT x 1/4 Hose Barb								
	900973	1/2 MNPT x 3/8 Hose Barb								
	900974	1/2 MNPT x 1/2 Hose Barb								
	900975	1/2 MNPT x 3/4 Hose Barb								
	900976	3/4 MNPT x 3/8 Hose Barb								
	900977	3/4 MNPT x 1/2 Hose Barb								
	900978	3/4 MNPT x 3/4 Hose Barb								
	900979	3/4 MNPT x 1 Hose Barb								
	900980	1 MNPT x 3/4 Hose Barb								
	900981	1 MNPT x 1 Hose Barb								
	Hose									
	Hose lengths are 10, 20, 30, 40, and 50. Select the hose model number (diameter) and indicate the length with a dash. Example: A Model 901845-20 is 1/4" hose 200 long.									
	Model	Description								
	901845-	1/4" I.D. Hose								
	900689-	3/8" I.D. Hose								
	900690-	1/2" I.D. Hose								
	900063-	3/4" I.D. Hose								
	900064-	1" I.D. Hose								



MNPT = NPT Male FNPT = NPT Female





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