

# AIRMATIC®

**WE'LL HANDLE IT.**



## TURBINE VIBRATORS

Complete CTV Turbomite Series

### AIRMATIC

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## TURBOMITE CVT SERIES TURBINE VIBRATORS



Our Turbomite CVT Series Turbine Vibrators are incredibly quiet, but their performance attracts plenty of attention. Featuring mild steel construction, they offer unparalleled efficiency and optimal force-to-weight and force-to-air consumption ratios that are easily two to four times better than competitive products. High-temperature vibrators are also available for use in industrial settings up to 450°F.

### RECOMMENDED APPLICATIONS:

- Bulk bin or hopper vibration
- Eliminating clogs and choke points from chute and tracks
- Agitating screen decks to prevent blinding
- Maintaining product flow in feeders and filling machines
- De-airing molded products or liquids
- Packing and densifying products
- Agitating dust collectors and/or filters to remove cake

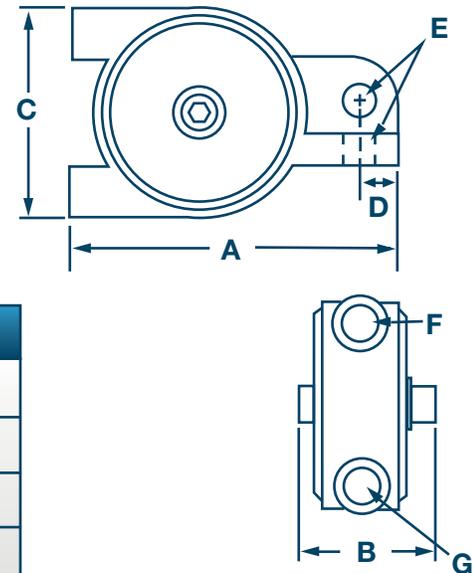
### RECOMMENDED INDUSTRIES

- Food and Agriculture
- Aggregate and Concrete
- Pharmaceutical and Medical Products
- Manufacturing
- Plastics
- Foundry

### BENEFITS INCLUDE

- Quality steel construction and ultra-efficient air consumption allow economical continuous duty
- Produce virtually no noise
- Permanently lubricated and sealed bearings enable uninterrupted operation
- Pneumatic power enables operation in hazardous environments
- Design allows for start and run at low pressure and mounting at any angle
- Typically last three times longer than ball vibrators
- Force outputs from 54 lbs. to 580 lbs.

More efficient and durable than ball vibrators, our Turbomite CVT Series Turbine Vibrators are well-suited for both large and small applications. That's why they're perfect for a variety of industries, including food and agriculture, aggregate and concrete, pharmaceutical and medical, manufacturing, plastics and foundries. We also offer our High Temperature (HT) units rated to operate in temperatures up to 450°F.



MODEL	A	B	C	D	E	F	G
CVT-30	3-1/8"	1-1/4"	1-3/4"	7/16"	5/16"	1/8"	1/8"
CVT-40	3-9/16"	1-1/2"	2-1/8"	1/2"	3/8"	1/8"	1/4"
CVT-50	4"	1-5/8"	2-1/2"	5/8"	3/8"	1/4"	1/4"
CVT-80	5-3/8"	2-1/4"	3-1/2"	5/8"	1/2"	1/4"	1/4"

MODEL	WEIGHT (LBS)	UNBAL. (IN-LBS)	@20 PSI			@40 PSI		
			SPEED (VPM)	FORCE (LBF)	AIR CONS CFM	SPEED (VPM)	FORCE (LBF)	AIR CONS CFM
CVT-30	.54	.013	12,060	54	1.1	14,280	75.3	1.8
CVT-40	.9	.029	4,500	17	1.3	7,900	51	1.8
CVT-50	1.4	.044	3,500	15	1.7	8,970	101	2.8
CVT-80	2.9	.194	1,930	20	1.8	6,135	207.4	2.9

MODEL	WEIGHT (LBS)	UNBAL. (IN-LBS)	@60 PSI			@80 PSI		
			SPEED (VPM)	FORCE (LBF)	AIR CONS CFM	SPEED (VPM)	FORCE (LBF)	AIR CONS CFM
CVT-30	.54	.013	16,650	102.4	2.5	16,890	105.3	3.2
CVT-40	.9	.029	12,100	121	2.5	15,690	202.8	3.2
CVT-50	1.4	.044	12,790	204	3.8	14,560	265	5
CVT-80	2.9	.194	8,750	421.8	40	10,255	579.4	5.2

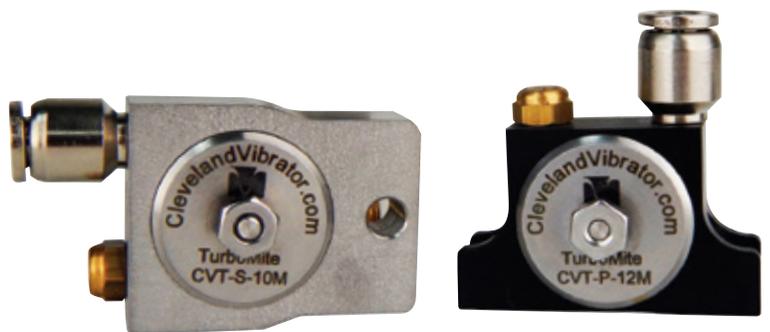
Data for the above two tables obtained on 1,000-pound laboratory test block. Frequency of vibration and resulting force will decrease on a less rigid structure.

## TURBOMITE CVT-P AND CVT-S SERIES

Pneumatic power, acetal plastic and laser-etched #304 stainless steel construction make our CVT-P (acetal body) Series and CVT-S (stainless steel body) Series Turbine Vibrators optimal for material loads from 25 lbs. to 1000 lbs. With a design that offers unparalleled efficiency, these vibrators provide a remarkably low noise level and optimal force-to-weight and force-to-air consumption ratios that are easily two to four times better than competitor products. They can be mounted at any angle on bins, hoppers, chutes, feeders, tracks and small screeners.

### BENEFITS INCLUDE

- Very low air consumption and noise
- Starts and runs at low inlet pressures (some as low as 5 psi)
- Permanently lubricated and sealed bearings enable uninterrupted operation
- Last longer than ball vibrators
- Acetal body that's ideal for food and chemical use
- Laser-etched label prevents contamination
- Small and miniature models offer unique solutions to precise jobs
- Models with stainless steel body that share CVT-P specs are also available (CVT-S-10 and CVT-S-60)



### RECOMMENDED APPLICATIONS:

- Bulk bin or hopper vibration
- Eliminating clogs and choke points from chute and tracks
- Agitating screen decks to prevent blinding
- Maintaining product flow in feeders and filling machines
- De-airing molded products or liquids
- Packing and densifying products
- Agitating dust collectors and/or filters to remove cake

MODEL	WEIGHT (LBS)	UNBAL. (IN-LBS)	@20 PSI			@40 PSI		
			SPEED (VPM)	FORCE (LBF)	AIR CONS CFM	SPEED (VPM)	FORCE (LBF)	AIR CONS CFM
CVT-P-1(M)	.04	.001	15,970	7.2	.26	18,500	9.7	.44
CVT-P-10 (M)	.1	.002	18,200	18.8	.49	19,400	21.4	.78
CVT-P-12 (M)	.1	.002	18,200	18.8	.49	19,400	21.4	.78
CVT-P-20	.2	.006	8,010	10.9	.69	12,300	25.8	1.1
CVT-P-22 (M)	.2	.006	8,010	10.9	.69	12,300	25.8	1.1
CVT-P-30	.54	.013	8,400	26	.96	9,840	35.8	1.6
CVT-P-50	1.4	.044	5,670	45.1	1.7	7,220	64.1	2.8
CVT-P-60	1.24	.12	4,800	78.5	1.3	5,910	119.1	2

MODEL	WEIGHT (LBS)	UNBAL. (IN-LBS)	@60 PSI			@80 PSI		
			SPEED (VPM)	FORCE (LBF)	AIR CONS CFM	SPEED (VPM)	FORCE (LBF)	AIR CONS CFM
CVT-P-1	.04	.001	19,250	10.5	.61	20,000	11.4	.81
**CVT-P-10	.1	.002	20,500	23.9	1.09	20,900	24.8	1.41
CVT-P-12	.1	.002	20,500	23.9	1.09	20,900	24.8	1.41
CVT-P-20	.2	.006	8,010	10.9	.69	12,300	25.8	1.1
CVT-P-22	.2	.006	15,600	41.5	1.5	18,000	55.2	2
CVT-P-30	.54	.013	10,580	41.3	2.2	11,300	47.1	2.8
CVT-P-50	1.4	.044	7,810	76.2	3.8	8,070	81.4	4.9
**CVT-P-60	1.24	.12	6,280	134.5	2.8	6,560	146.8	3.6

\*\*CVT-10 Model & CVT-60 Models are available in Stainless Steel Body

**CVT-P ONE BOLT STYLE**

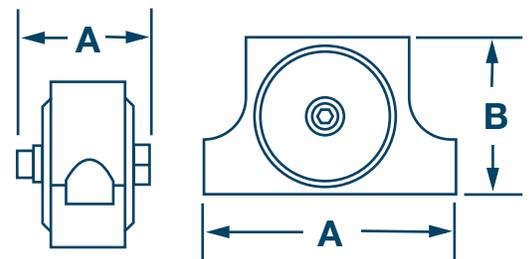
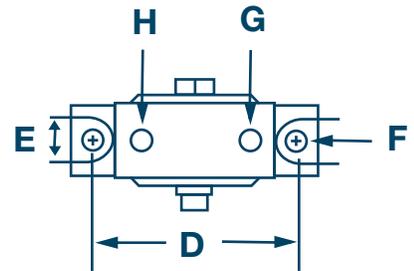
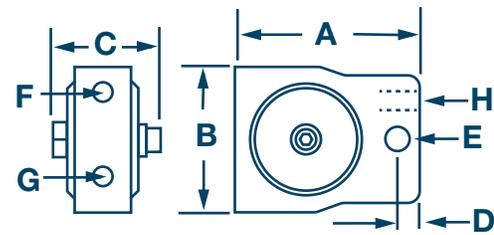
MODEL	A	B	C	D	E	F	G	H
CVT-P-1(M)	1-1/4"	7/8"	23/32"	3/16"	5/32"	#10-32 UNF	#10-32 UNF	#6-32 UNF
CVT-P-1 (M)	1-1/4"	7/8"	23/32"	3/16"	5/32"	#10-32 UNF	#10-32 UNF	#6-32 UNF
CVT-P-10	1-1/2"	1-9/32"	31/32"	3/16"	7/32"	#10-32 UNF	#10-32 UNF	#10-32 UNF
CVT-P-10 (M)	1-1/2"	1-9/32"	31/32"	3/16"	7/32"	M5	M5	M5
CVT-P-20	1-5/8"	1-1/4"	1-1/8"	3/16"	1/4"	#10-32 UNF	#10-32 UNF	#10-32 UNF
CVT-P-30	2-3/4"	1-3/4"	1-1/4"	3/8"	11/32"	1/8" NTP	1/8" NTP	1/4-20 UNC
CVT-P-50	4"	2-1/2"	1-5/8"	3/4"	3/8"	1/4" NTP	1/4" NTP	NA
CVT-P-60	4-1/8"	2-11/16"	2-1/16"	11/16"	7/16"	1/4" NTP	1/4" NTP	NA

**CVT-P TWO BOLT STYLE**

MODEL	A	B	C	D	E	F	G	H
CVT-P-12	1-3/4"	1-1/16"	15/16"	1-7/16"	5/16"	3/16"	#10-32 UNF	#10-32 UNF
CVT-P-12 (M)	1-3/4"	1-1/16"	15/16"	1-7/16"	5/16"	3/16"	M5	M5
CVT-P-22	2-1/4"	1-1/4"	1-3/32"	1-3/4"	3/8"	7/32"	#10-32 UNF	#10-32 UNF
CVT-P-22 (M)	2-1/4"	1-1/4"	1-3/32"	1-3/4"	3/8"	7/32"	M5	M5

Data for the two tables on left are obtained on 1,000 pound laboratory test block.

Frequency of vibration and resulting force will decrease on a less rigid structure.



## TURBOMITE CVT-A SERIES



Fabricated with lightweight anodized aluminum, the unique body design of our Turbomite CVT-A Series Turbine Vibrators allows for multiple mounting foot bases with the same body. Our off-the-shelf mounting styles are designed to accommodate existing bolt-hole patterns from competitor turbine and ball vibrators. Or, use your own mounting to integrate our highly powerful and efficient turbine into your design.

### RECOMMENDED APPLICATIONS:

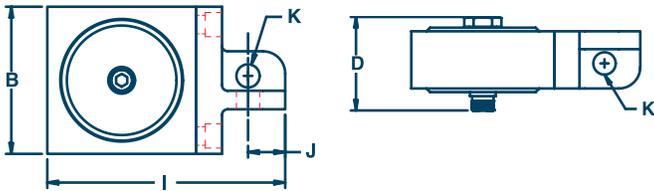
- Bulk bin or hopper vibration
- Eliminating clogs and choke points from chute and tracks
- Agitating screen decks to prevent blinding
- Maintaining product flow in feeders and filling machines
- De-airing molded products or liquids
- Packing and densifying products
- Agitating dust collectors and/or filters to remove cake

### BENEFITS INCLUDE

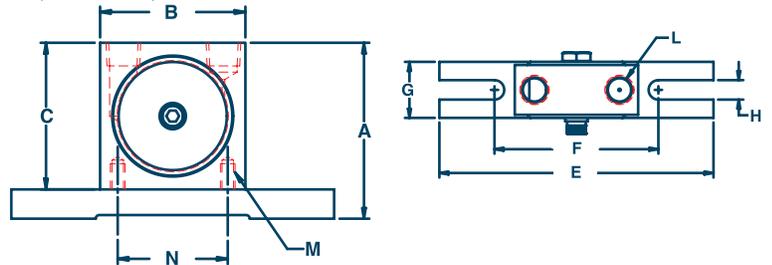
- Lightweight anodized aluminum construction and ultra-efficient use of air for force production allow for long life and continuous duty
- Produce virtually no noise
- Permanently lubricated and sealed bearings enable uninterrupted operation with clean, unlubricated air
- Pneumatic power enables operation in hazardous environments
- Design allows for multiple mounting foot bases with the same body
- Typically last three times longer than ball vibrators
- Grade 5 mounting fasteners included for quick

# TURBOMITE CVT-A SERIES

Single-Bolt Style  
(CVT-A-XX-1)



Double-Bolt Style  
(CVT-A-XX-2)



MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M NTP	N THREAD
CVT-A-30	2-1/4"	1-3/4"	1-7/8"	1-1/4"	4-7/8"	2-5/8"	7/8"	3/8"	3-7/16"	3/8"	5/16"	1/8"	#10-24	1-3/8"
CVT-A-40	2-1/2"	2-1/8"	2-1/8"	1-1/2"	4-1/2"	2-11/16"	1"	3/8"	3-9/16"	1/2"	3/8"	1/8"	1/4-20	1-1/2"
CVT-A-50	3"	2-1/2"	2-1/2"	1-5/8"	5-1/2"	3-5/16"	1-1/8"	13/32"	4"	5/8"	19/32"	1/4"	1/4-20	1-7/8"
CVT-A-80	4"	3-1/2"	3-1/2"	2-1/4"	6-1/4"	4-1/2"	1-5/8"	9/16"	5-11/16"	1/2"	17/32"	1/4"	5/16-24	2-7/8"

MODEL	WEIGHT (LBS)	UNBAL. (IN-LBS)	@20 PSI			@40 PSI		
			SPEED (VPM)	FORCE (LBF)	AIR CONS CFM	SPEED (VPM)	FORCE (LBF)	AIR CONS CFM
CVT-A-30	.48	.013	12,060	54	1.1	14,280	75.3	1.8
CVT-A-40	.65	.029	4,500	17	1.3	7,900	51	1.8
CVT-A-50	1.2	.044	3,500	15	1.7	8,970	101	2.8
CVT-A-80	2.6	.194	1,930	20	1.8	6,135	207.4	2.9

MODEL	WEIGHT (LBS)	UNBAL. (IN-LBS)	@60 PSI			@80 PSI		
			SPEED (VPM)	FORCE (LBF)	AIR CONS CFM	SPEED (VPM)	FORCE (LBF)	AIR CONS CFM
CVT-A-30	.54	.013	16,650	102.4	2.5	16,890	105.3	3.2
CVT-A-40	.9	.029	12,100	121	2.5	15,690	202.8	3.2
CVT-A-50	1.4	.044	12,790	204	3.8	14,560	265	5
CVT-A-80	2.9	.194	8,750	421.8	40	10,255	579.4	5.2

# AIRMATIC®

**WE'LL HANDLE IT.**

**AIRMATIC** founded in 1944, is a woman-owned Industrial Distributor, with installation and maintenance capabilities, offering equipment, machinery, and shop supplies to the Industrial, Construction, Utility, Government, and Commercial Markets. Our products and services are sold through three business units:

The **MATERIALS MANAGEMENT GROUP** provides products and services to industries that convey, store, transport, and process powders and bulk solids from aggregates, cement, and chemicals to foods, grains, metals, power generation, and waste water treatment applications;

The **SERVICE GROUP** provides fabrication, installation, and maintenance services to improve bulk materials handling efficiency; mechanical clean-out services for silos and hoppers to eliminate material flow problems; and shop repair/rebuilding and modifications services of products sold by the Company.

The **TOOL GROUP** provides power tools, personal protective equipment, materials-handling equipment, shop equipment and MRO supplies used for production, fabrication, assembly, metal removal, maintenance, and storage in manufacturing, construction, utility, and commercial applications.

**Our Customers tell us that by choosing AIRMATIC to solve their problems, they gain increased productivity, decreased costs, and a safer, cleaner work environment.**



**CLEVELAND VIBRATOR** Founded in 1923, is the leader in the industrial vibrator and vibratory equipment field. The company offers one of the industry's most comprehensive and durable line of air-powered rotary and piston vibrators, rotary and electromagnetic electric vibrators, vibratory tables, feeders, conveyors and screeners for the foundry, pharmaceutical, concrete, sand and gravel, food, chemical, and plastic plants and facilities.

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