

Ball Vibrators



They're Powerful, Versatile and Economical

Quality construction, simple design and low cost make our Ball Vibrators a popular choice. They're available in an array of force ranges and construction types to handle a wide variety of material flow challenges. Most commonly used as discharge flow aids on small- to medium-size bins, hoppers and chutes, they're perfect for applications within the chemical, foundry and concrete industries. Our most popular family, the Econ-o-line, features a simple design and enough force and frequency range to handle most small- to medium-size jobs. For jobs that require extended force and frequency ranges, our Herc-u-line products are your best option.

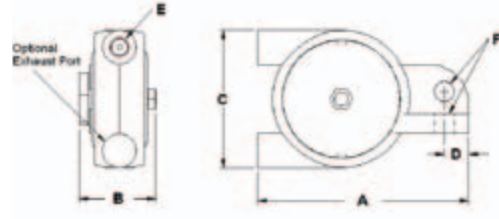
BENEFITS INCLUDE

- High-quality ductile iron housing
- Designed and constructed for continuous duty
- Pneumatic power allows for operation in hazardous areas
- Wide range of vibration intensities and design types allow for flexibility in mounting angles, force outputs, material loads and applications
- Mounting fasteners included for quick setup
- Optional features to reduce noise levels

Econ-o-line Ball Vibrators

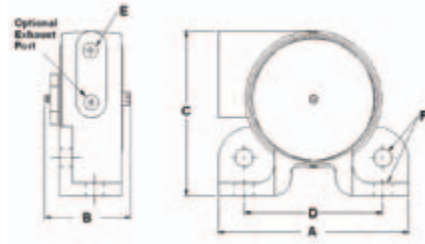
VBB

MODEL	A	B	C	D	E	F
30	3 ¹ / ₈ " 7.9 cm	1 ¹ / ₈ " 2.9 cm	1 ³ / ₄ " 4.4 cm	1 ¹ / ₂ " 1.3 cm	1 ¹ / ₈ " NPT	5 ⁵ / ₁₆ " 0.8 cm
40	3 ⁹ / ₁₆ " 9 cm	1 ⁵ / ₁₆ " 3.3 cm	2 ¹ / ₈ " 5.4 cm	1 ¹ / ₂ " 1.3 cm	1 ¹ / ₄ " NPT	3 ³ / ₈ " 1 cm
50	4" 10.2 cm	1 ⁵ / ₁₆ " 3.3 cm	2 ¹ / ₂ " 6.4 cm	5 ⁵ / ₈ " 1.6 cm	1 ¹ / ₄ " NPT	3 ³ / ₈ " 1 cm
80	5 ³ / ₈ " 13.7 cm	1 ¹³ / ₁₆ " 4.6 cm	3 ¹ / ₂ " 8.9 cm	5 ⁵ / ₈ " 1.6 cm	1 ¹ / ₄ " NPT	1 ¹ / ₂ " 1.3 cm



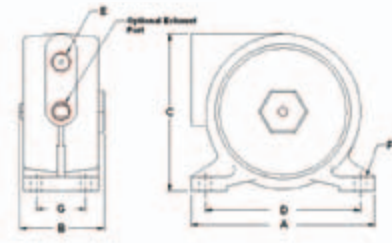
VBC

MODEL	A	B	C	D	E	F
VBC 110	5 ¹ / ₂ " 14 cm	2 ¹³ / ₁₆ " 7.1 cm	4 ³ / ₄ " 12.1 cm	4" 10.2 cm	1 ¹ / ₄ " NPT	1 ¹ / ₂ " 1.3 cm



VBD

MODEL	A	B	C	D	E	F	G
130	6 ¹ / ₂ " 16.5 cm	2 ⁹ / ₁₆ " 6.5 cm	4 ³ / ₄ " 12.1 cm	5 ¹ / ₂ " 14 cm	3 ³ / ₈ " NPT	3 ³ / ₈ " 1 cm	1 ¹ / ₄ " 3.2 cm
150	6 ¹ / ₂ " 16.5 cm	3" 7.6 cm	5 ¹ / ₂ " 14 cm	5 ¹ / ₂ " 14 cm	3 ³ / ₈ " 1.0	3 ³ / ₈ " NPT	1 ³ / ₄ " 4.4 cm



VBB • VBC • VBD

MODEL	WEIGHT (LBS/KG)	UNBALANCE (IN-LBS/CM-KG)	VERTICAL PSI/BAR REQUIRED TO START	HORIZONTAL PSI/BAR REQUIRED TO START	@20 PSI/1.4 BAR			@40 PSI/2.7 BAR		
					SPEED (VPM)	FORCE (LBF/N)	AIR CONS (CFM/LPM)	SPEED (VPM)	FORCE (LBF/N)	AIR CONS (CFM/LPM)
VBB-30	.5/2	.0045/75	5/3	2/1	16,000	33/15	2/57	20,000	51/23	4/113
VBB-40	.75/3	.008/1.3	5/3	2/1	10,000	23/10	3/85	15,000	51/23	5/142
VBB-50	1/5	.02/3.3	15/1	10/7	9,000	46/21	4/113	13,000	96/44	6/170
VBB-80	2.5/1.1	.114/19	35/2.4	20/1.4	7,000	159/72	6/170	7,700	192/87	10/283
VBC-110	4/1.8	.351/58	60/4.1	30/2	3,600	129/59	8/227	4,800	230/104	12/340
VBD-130	5/2.3	.654/109	65/4.4	25/1.7	3,500	234/106	9/255	4,500	376/171	15/425
VBD-150	8/3.6	1.22/202	80/5.4	30/2	3,500	311/141	15/425	4,000	554/251	20/566

MODEL	WEIGHT (LBS/KG)	UNBALANCE (IN-LBS/CM-KG)	VERTICAL PSI/BAR REQUIRED TO START	HORIZONTAL PSI/BAR REQUIRED TO START	@60 PSI/4.1 BAR			@80 PSI/5.4 BAR		
					SPEED (VPM)	FORCE (LBF/N)	AIR CONS (CFM/LPM)	SPEED (VPM)	FORCE (LBF/N)	AIR CONS (CFM/LPM)
VBB-30	.5/2	.0045/75	5/3	2/1	25,000	80/36	6/170	NA	NA	NA
VBB-40	.75/3	.008/1.3	5/3	2/1	20,000	91/41	8/227	NA	NA	NA
VBB-50	1/5	.02/3.3	15/1	10/7	16,000	145/66	9/255	18,000	184/83	12/340
VBB-80	2.5/1.1	.114/19	35/2.4	20/1.4	8,400	228/103	14/396	9,000	262/119	18/510
VBC-110	4/1.8	.351/58	60/4.1	30/2	6,200	383/174	15/425	7,500	560/254	25/708
VBD-130	5/2.3	.654/109	65/4.4	25/1.7	6,000	668/303	21/595	7,000	910/413	30/850
VBD-150	8/3.6	1.22/202	80/5.4	30/2	4,500	700/318	30/850	5,200	935/424	40/1,133

Frequency data obtained through testing under a no-load condition. Frequency will decline as load is increased.

FOR MORE INFORMATION

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Buy Online: www.clevelandvibrator.com