

K Series Pneumatic Ball Vibrator

Compact compressed-air ball vibration for material flow and industrial handling equipment



Product Overview

The HOMIPNEU K Series pneumatic ball vibrator converts compressed-air energy into high-frequency mechanical vibration. A moving ball inside the vibrator housing generates centrifugal force, helping improve the flow and discharge of powders, granules and bulk materials. The compact base-mounted design is available in eight sizes with model-specific frequency, vibration force, air-consumption and mounting dimensions.

Key Features

- Compressed-air operation without electrical wiring at the vibrator body.
- Ball-driven centrifugal vibration with output adjustable by air pressure.
- Eight models from K-8 through K-36 for different vibration requirements.
- Published performance data at 0.2, 0.4 and 0.6 MPa reference pressures.
- Compact base-mounting structure with 1/4 or 3/8 pneumatic ports.

Applications

- Hoppers, bins and chutes handling powders, granules and bulk materials.
- Feeding, screening, packaging and conveying machinery.
- Material-flow assistance where bridging, adhesion or incomplete discharge occurs.
- Industrial automation equipment requiring compact pneumatic vibration.

Product Function

Compressed air moves the internal ball around its guide path, producing centrifugal vibration through the housing. Frequency, vibration force and air consumption vary with the selected K model and supplied air pressure.

Technical Specifications

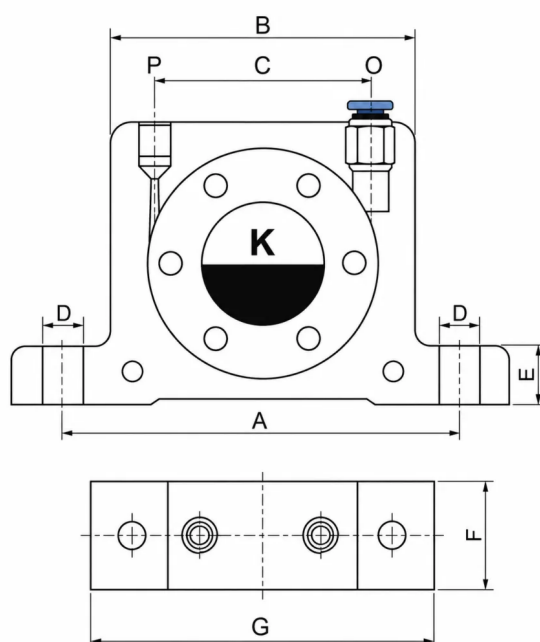
Parameter	Specification
Product Type	Pneumatic ball vibrator
Operating Medium	Compressed air
Operating Principle	Ball-driven centrifugal vibration
Reference Pressures	0.2 MPa, 0.4 MPa and 0.6 MPa
Performance Metrics	Frequency, vibration force and air consumption
Model Range	K-8, K-10, K-13, K-16, K-20, K-25, K-32 and K-36
Air Port Size	1/4 or 3/8, model-dependent P/O connection
Mounting Method	Base mounting with fixing holes
Published Units	Dimensions in mm; weight in g

Performance Data

Model	Frequency (V.P.M)			Vibration Force (N)			Air Consumption (L/min)		
	0.2 MPa	0.4 MPa	0.6 MPa	0.2 MPa	0.4 MPa	0.6 MPa	0.2 MPa	0.4 MPa	0.6 MPa
K-8	22500	27250	34100	245	465	700	90	150	190
K-10	22500	27250	34100	245	465	700	90	150	190
K-13	13250	17500	19000	440	820	1200	100	190	270
K-16	13250	17500	19000	440	820	1200	100	190	270
K-20	10000	12750	14111	950	1675	2000	150	270	400
K-25	10000	12750	14111	950	1675	2000	150	270	400
K-32	7500	9350	11000	2000	3150	4000	270	460	680
K-36	7500	9350	11000	2000	3150	4000	270	460	680

Performance values are shown at the three reference air pressures published on the current product page.

Dimension Drawing



Model Selection and Dimensions

Model	A	B	C	D	E	F	G	P/O	Weight (g)
K-8	68	50	28	7	12	22	86	1/4	150
K-10	68	50	28	7	12	22	86	1/4	150
K-13	90	65	39	9	16	27	113	1/4	330
K-16	90	65	39	9	16	27	113	1/4	330
K-20	104	82	57	9	17	38	128	1/4	690
K-25	104	82	57	9	17	38	128	1/4	690
K-32	130	103	76	11	21	50	160	3/8	1320
K-36	130	103	76	11	21	50	160	3/8	1320

All dimensions are in millimetres. Weight values are in grams. P/O indicates the pneumatic port size.

Operating and Selection Guidance

- Select the K model according to the required vibration force, available air pressure and acceptable air consumption.
- Use a pressure regulator to adjust vibration intensity within the published pressure range.
- Install the vibrator on a rigid, clean and flat mounting surface with correctly sized fasteners.
- Use adequately sized compressed-air tubing to maintain stable supply pressure during operation.
- Provide suitable air preparation and keep the supply free from excessive moisture and particles.

Installation Notes

- Depressurize the pneumatic system before mounting, connecting or servicing the vibrator.
- Tighten the mounting bolts evenly and recheck them after initial operation.
- Connect the air inlet and exhaust according to the product markings and selected P/O port size.
- Install an appropriate exhaust silencer when noise reduction is required.
- Avoid unsupported piping loads, impact forces and loose mounting during operation.

Maintenance and Safety

- Inspect mounting bolts, tubing and fittings periodically for looseness, leakage or damage.
- Stop operation if abnormal noise, unstable vibration or housing damage is observed.
- Do not exceed the selected system pressure or operate the vibrator without secure mounting.
- Replace damaged components and verify the installation before returning the unit to service.

Ordering Information

Specify the K model, available air pressure, port size, required quantity and application details. OEM and ODM support is available for product selection, packaging and branding, subject to production confirmation.

Contact Information

Wenzhou Hongmi Pneumatic Co., Ltd.

Address: Room 501, Xingnan Village, Hongqiao Town, Yueqing City, Zhejiang, China

Email: vivilian@homipneu.com

Phone / WhatsApp: +86 136 0580 6063

Website: <https://homipneu.com>