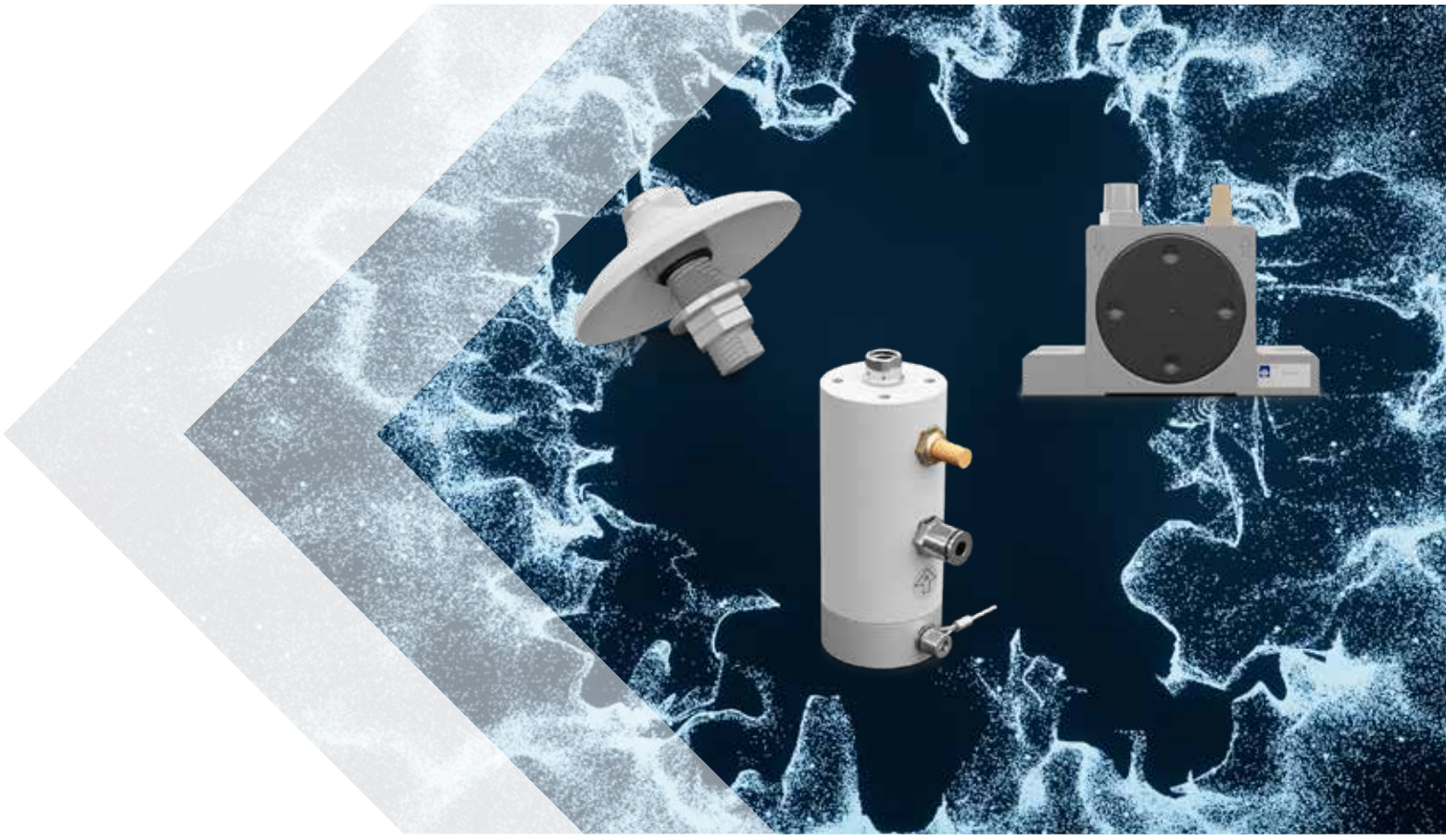
OLI

FLOW AIDS

VIBRATORS FOR POWDER HANDLING



Intro

Aerators

Air Jet

Pneumatic Linear Vibrators

Pneumatic Rotary Vibrators

Electric Vibrators

Hydraulic Vibrators

Worldwide leader in vibration technology

OUR 3 DIVISIONS

PROVIDE CUSTOMERS WITH OPTIMAL SOLUTIONS FOR ALL REQUIREMENTS

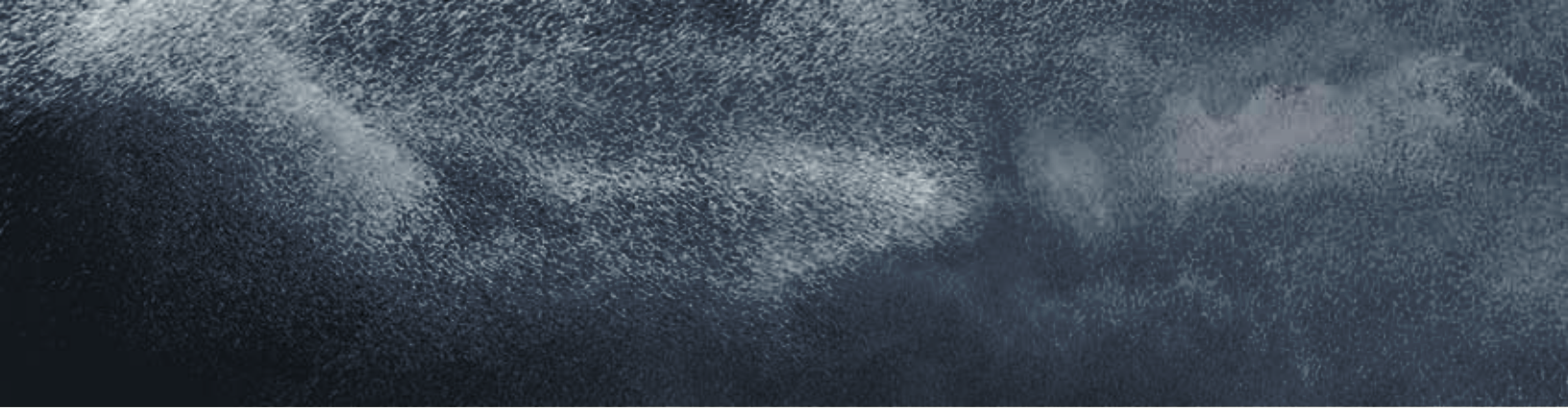
INDUSTRIAL VIBRATORS	FLOW AIDS	CONCRETE CONSOLIDATION
		
Electric motovibrators for vibrating equipment.	Comprehensive range of electric and pneumatic vibrators to solve any problem of flowability.	Internal and external vibrators, converters and accessories for reliable and efficient concrete compaction.

Founded in 1960 in Milan, OLI has undergone remarkable evolution, solidifying its position as **the world's top-selling manufacturer of Industrial Vibrators**. The company has expanded its global presence with **24 Trading Subsidiaries**, over **70 local warehouses**, and **4 manufacturing plants**.

Initially focused on immersion vibrators for concrete consolidation, OLI has emerged as a global leader in vibration technology. Offering a diverse range of **electric** and **pneumatic internal** and **external vibrators**, OLI seamlessly integrates performance and reliability to adapt to dynamic market demands.

OLI has refined its business strategy to prioritize **rapid stock delivery** and unparalleled **technical assistance**, ensuring customers worldwide have prompt access to **top-tier products and support**. Exceptional customer service is a cornerstone of OLI's operations, characterized by efficient order processing and universal access to high-quality products and services.
The company boasts a **team of specialized engineers** supported by globally certified management, ready to offer the expertise needed to address customer needs efficiently and safely.

OLI is not only committed to providing cutting-edge equipment but is also at the forefront of **developing innovative products**, aiming to maintain its leadership in the vibration technology industry and continuously set new standards



WHY USE FLOW AIDS?

SITUATION

Due to their characteristics, many **powders** inside silos, hoppers, chutes, piping, tanks or any other container tend to **stick to the surface**.

PROBLEM

Any small change in the opening of the outlet, a rough surface, bends, shallow angles, the shape of the container, as well as the particle shape of the material handled might slow down the flow of the product, thus generating **waste**.

SOLUTION

OLI flow aids are designed to solve issues caused by design errors or by the characteristics of the powder or granules handled. Moreover, they **increase process efficiency** and **improve plant safety**.

WHERE USE FLOW AIDS?

INDUSTRIES

- Food
- Animal feed
- Fertilizers
- Agriculture
- Pharmaceuticals
- Chemicals
- Plastics
- Cement
- Glass
- Air treatment
- Automotive
- Mining
- Recycling
- Renewable energies
- Building and construction

APPLICATIONS

- Silos
- Hoppers
- Slides and chutes
- Piping
- Dump trucks
- Silo trailers
- Tipper trucks
- Packaging equipment
- Bag unloaders
- Compaction tables
- Threshers

BENEFITS

- ✔ Safe
- ✔ Best quality/price ratio
- ✔ Robust
- ✔ Reliable
- ✔ Easy to install
- ✔ High performance
- ✔ Increased productivity
- ✔ Global availability
- ✔ Competitive prices

SMART POWDER HANDLING

More than 60 years of **experience** in solving material handling problems make OLI the ideal partner for customers across all industries.

A **group of specialists** is at the customers' disposal to study and offer solutions that perfectly suit any type of application and material present on the market.

OLI analyses problems in the most comprehensive way: the type of powder to be handled, environmental conditions and the type of process. The **customer's needs** is at the center of attention.

OLI's **global sales network** assists customers locally in over 70 countries ensuring ex-stock delivery from the local subsidiaries' warehouses.

OLI GUIDES YOU TO THE RIGHT CHOICE

Applications problem solving

1 **ANALYSIS**

Powder bulk density, flowability, abrasiveness, humidity, grain size

2 **PROJECT STUDY**

APPLICATION TYPE
Silo & hopper, compacting table, trucks, chute & pipes

DIMENSION

POWER SUPPLY SYSTEM
Electric, pneumatic

3 **DELIVERY**

Worldwide delivery via the OLI global network

ONLINE SIZING CALCULATOR

NOT TOO BIG, NOT TOO SMALL, JUST RIGHT

To complete the service to the customer, OLI has created an application that guides to the choice of the most suitable vibrator for the project, step-by-step.

OLIVIBRA CALCULATOR - MAIN FEATURES

- Available on-line
- Real-time updates
- Multilingual platform

www.calculator.olivibra.com

PRODUCT RANGE

INTERNAL APPLICATION ➡ IN CONTACT WITH MATERIAL

AERATORS

- VIBRO-AERATOR **VBS - VBT**
- AERATION PAD **I100**
- AERATION NOZZLE **U**

AIR JET

- AIR CANNON **PG**

EXTERNAL APPLICATION ➡NOT IN CONTACT WITH MATERIAL

PNEUMATIC VIBRATORS

LINEAR

- SINGLE IMPACT **PS**
- CONTINUOUS IMPACT **P**
- CUSHIONED **K**
- ADJUSTABLE **F**

ROTARY

- BALL **S**
- ROLLER **OR**
- TURBINE **OT**

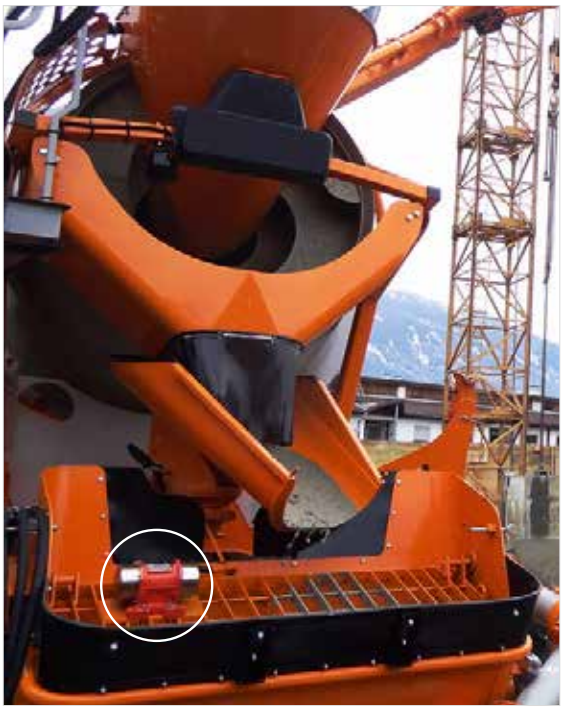
ELECTRIC VIBRATORS

- 2 POLES 1PH OR 3PH **MVE**
- 2 POLES 1PH OR 3PH **MVE-MICRO**
- DIRECT CURRENT **MVE-DC**

HYDRAULIC VIBRATORS

- **MVO**

VBS (aerators) - Silos



MVE-DC (electric vibrator) - Concrete pump

K (linear pneumatic vibrator) - Hopper emptying

OT (rotary pneumatic vibrator) - Chute on concrete mixer

RANGE OVERVIEW

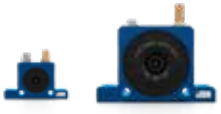
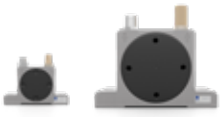
AERATORS AND AIR JET

PHOTO	SERIES	APPLICATIONS	POWDERS	FEATURES	BENEFITS
	BIN AERATORS **VB**	Silos, hoppers, pipes, dry bulk tank trailers, dry bulk rail tankers.	**Suitable for dry, fine powders:** Cement, lime, pigments, plastics, starch, flour, sugar, coffee.	Compatible with foods and chemicals.	Economical. Easy to install. Efficient. Durable. Available in two size: MICRO or standard. External mounting.
	AERATION PADS **I100**	Silos, hoppers.	**Suitable for dry, fine powders:** Cement, lime.	Low air consumption (0.2 bar pressure). Create fluid bed.	Economical. Easy to install. External mounting kit.
	AERATION NOZZLES **U**	Silos, hoppers.	**Suitable for dry, fine powders:** Cement, lime.	Low air consumption (0.2-1 bar pressure). Create fluid bed.	Economical. Easy to install. Compact design. Suitable for retrofitting. External mounting.
	AIR CANNON **PG**	Silos, hoppers.	**Powders of large particle size and irregular shape; fibrous powders and flakes.** Wood fibres, textile fibres, paper, plastics, bran.	Compact design with integrated solenoid valve. The air blade generated by the high pressure jet helps to clean the hopper surface.	Suitable for bridge breaking. Economical. Easy to install. Low air consumption. Mounting plate included.

PNEUMATIC LINEAR VIBRATORS

PHOTO	SERIES	APPLICATIONS	POWDERS	FEATURES	BENEFITS
	SINGLE IMPACT **PS**	Silos, storage systems, hoppers.	**Hygroscopic powders:** flour, detergents, phosphates, fertilizers, lime, cement, clay, pigments.	High impact strength solves bridging or rat holing problems. Atex II3D c T85 °C (available with only pneumatic activation).	Economical. Low air consumption. Efficient. Zero impact on silo structure. Multi-voltage. Integrated solenoid valve. Timer.
	CONTINUOUS IMPACT **P**	Silos, hoppers, piping, salt spreaders, dump trucks, rail cars.	**Hygroscopic, humid powders:** sludge, aggregates, sand, salt, foundry sand, animal feed.	Sturdy, compact heavy-duty design, high temperature applications. Atex II2G c Tx Atex II2D c Tx	Economical. Low air consumption. Efficient. Suitable for high temperature and outdoor applications.
	CUSHIONED **K**	Silos, hoppers, piping, tanks, compacting, vibrating feeders, tables and channels.	**Hygroscopic or dusty powders, granules:** animal feed, aggregates, plastics, foods.	Suitable for food or chemical applications. Suitable for dusty environments. Atex II2G c Tx Atex II2D c Tx	Economical. Silent. Low air consumption. Easy to install.
	ADJUSTABLE **F**	Hoppers, chutes, vibrating feeders, tables and channels.	Hygroscopic or dusty powders; granules.	Alternative option to K. Compact design. Available in different shapes and casing materials. Threaded shaft for amplitude and force adjustment. Atex II2G c Tx Atex II2D c Tx	Economical. Silent. Low air consumption. Easy to install. Adjustable force and vibration frequency.

PNEUMATIC ROTARY VIBRATORS

PHOTO	SERIES	APPLICATIONS	POWDERS	FEATURES	BENEFITS
	BALL VIBRATORS **S**	Silos, hoppers, piping, chutes, compacting.	**Dry powders:** granules, plastics, sand, ashes, cement, lime.	Filter sleeve cleaning. Suitable for outdoor use. Resistant to oxidation. Atex II2G c Tx Atex II2D c Tx	Economical. Low air consumption. High frequency vibration.
	ROLLER VIBRATORS **OR**	Silos, hoppers, piping, chutes, concrete compaction.	**Hygroscopic powders:** cement, concrete, sand, foundry sand.	Compact and robust design. Suitable for outdoor use. Resistant to oxidation. Atex II2G c Tx Atex II2D c Tx	High centrifugal force. Low air consumption. High frequency vibration. Suitable for high temperature.
	TURBINE VIBRATORS **OT**	Silos, hoppers, piping, chutes.	**Food powders:** sugar, bicarbonate, phosphate, sodium.	Suitable for food and pharmaceutical applications. Resistant to oxidation. Atex II2G c Tx Atex II2D c Tx	High centrifugal force. High frequency vibration. Lubrication free. Silent. Low air consumption.

ELECTRIC VIBRATORS

PHOTO	SERIES	APPLICATIONS	POWDERS	FEATURES	BENEFITS
	DIRECT CURRENT **MVE-DC**	Automotive, hoppers, salt and manure spreaders, dump trucks, concrete pump grids.	**Granular powders:** concrete, fertilizers, corn, soy, rice, seeds, salt, sand.	Stainless steel covers. DC Motor 3,000 RPM 12V-24V. Centrifugal force from 50 to 1500Kg.	Economical. Robust. Safe. Terminal box connection sealed (option). Adjustable force.
	2 POLES **MVE**	Silos, hoppers, dispensers, agitators, mixers, filter cleaning, vibrating feeders and tables.	**Fine and dry powders, granules:** cement, flour, grit, sugar.	Suitable for indoor and outdoor use. Centrifugal force from 60 to 800Kg. Atex II2D T100 °C.	Economical. Wide range. Special windings for different geographical areas. Adjustable force.
	2 POLES MICRO **MVE-MICRO**	Small hoppers, micro-screens, chutes, vibrating feeders tables and channels.	**Fine, dry powder:** plastics, sugar, bicarbonate, seeds.	Compact, uni-body, heavy-duty design. Centrifugal force from 3 to 41Kg. Atex II2D T100 °C.	Economical. Easy to install. Single phase cable with built-in capacitor. Adjustable force.

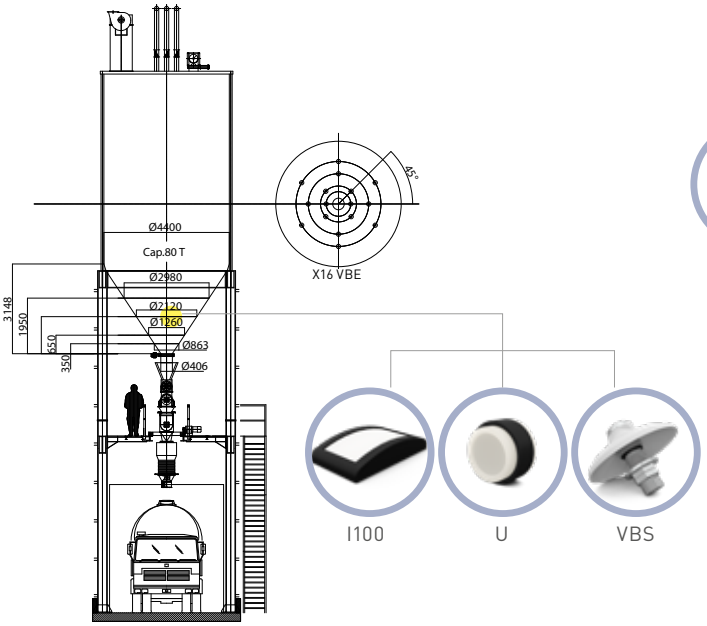
HYDRAULIC VIBRATORS

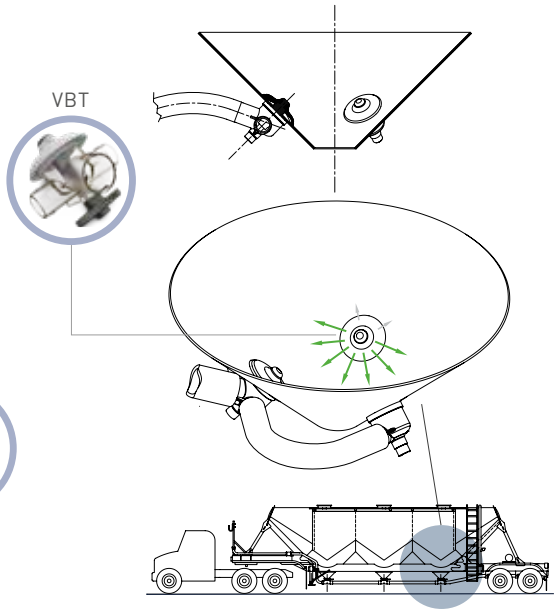
PHOTO	SERIES	APPLICATIONS	POWDERS	FEATURES	BENEFITS
	HYDRAULIC VIBRATOR **MVO**	Dump trucks, agricultural equipment, digging buckets, pipeline padder equipment, construction equipment.	**Hygroscopic, wet, sticky and granular powder:** clay, fertilizer, manure, sludge, aggregates.	Continuous duty. Working temperature from -20 to 60 °C (from -4 to 140 °F). Centrifugal force from 208 to 830 Kg. Speed from 3.000 to 6.000 rpm.	Robust. Safe. Easy to install. Compact design. High Force.

APPLICATIONS

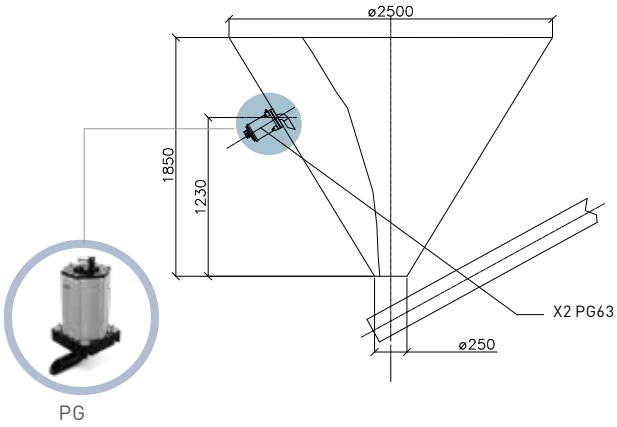
INTERNAL APPLICATIONS

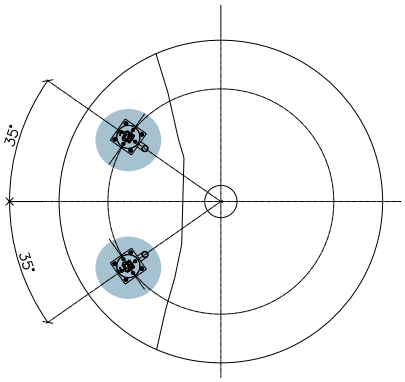
Aerators





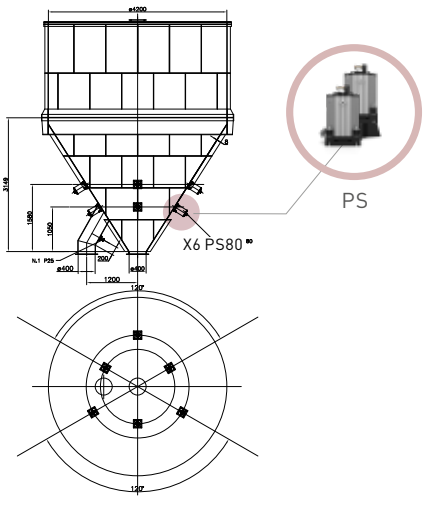
Air Jet

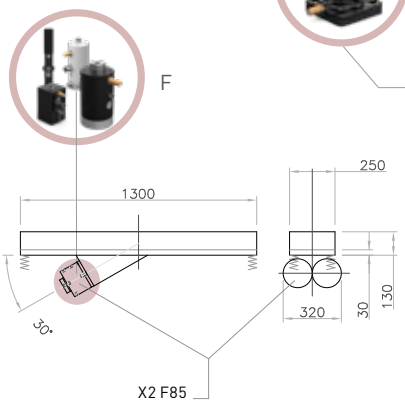


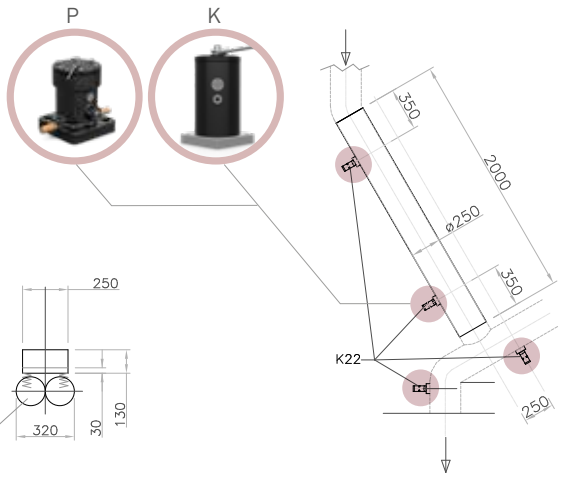


EXTERNAL APPLICATIONS

Pneumatic Linear Vibrators

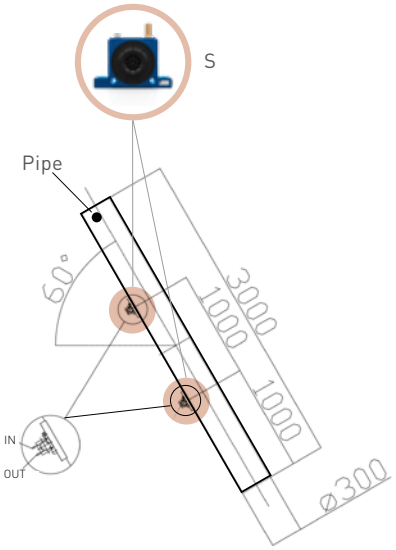


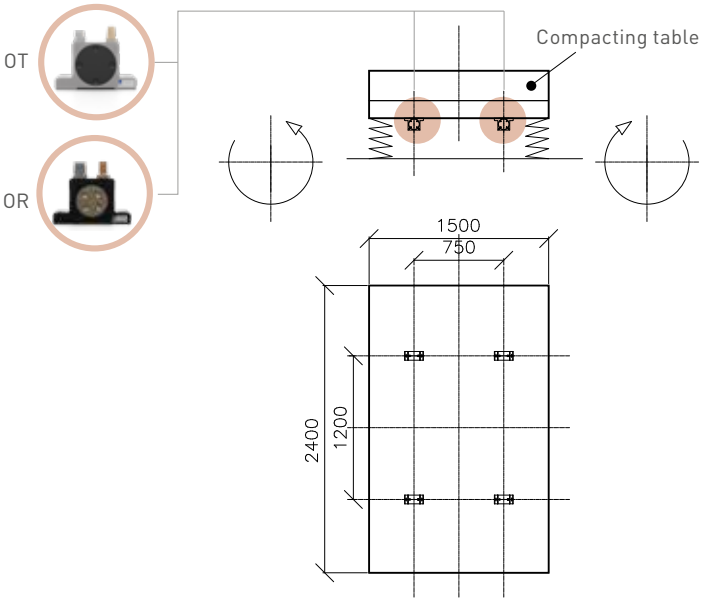




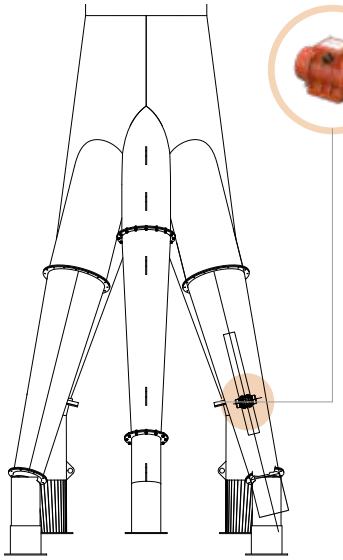
EXTERNAL APPLICATIONS

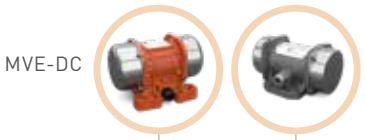
Pneumatic Rotary Vibrators

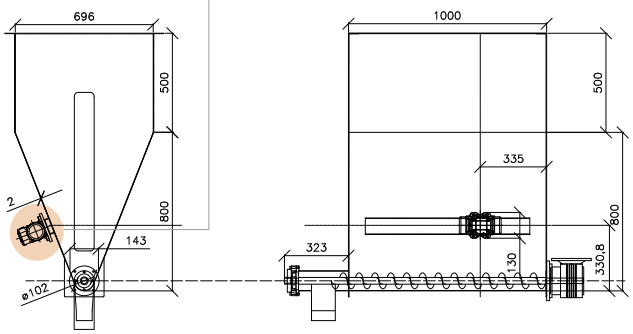




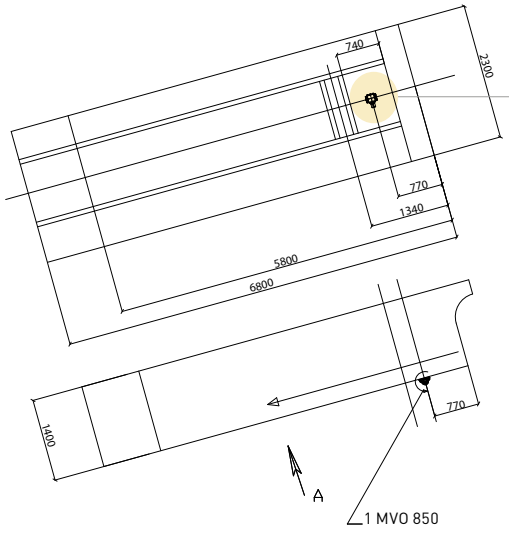
Electric Vibrators

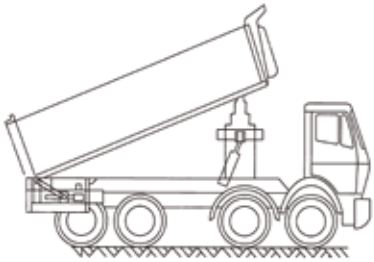






Hydraulic Vibrators

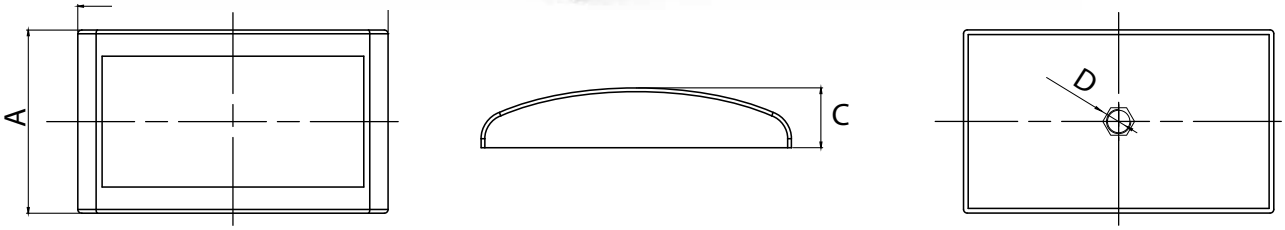




I100 – Aeration pads

The I100 fluidizing plates are installed directly in contact with the material stored in the silo and are able to blow air through a porous membrane, whose semi-convex shape guarantees a wide emission angle.

Low pressure aeration prevents possible product tendencies to form bridges, rat holes, lumps or deposits on the bottom of the cone.



Model	AIR CONSUMPTION	
	0.2 bar (2.9 psi)	
	l/min*	cfm
I100	30	1.05

** Indicates in Nl/min the total air consumption normalized at the rated pressure.*

Model	DIMENSIONAL SPECIFICATIONS						
	A		B		C		D
	mm	in	mm	in	mm	in	BSPP
I100	98	3.8	166	6.5	32	1.2	1/4

I100 - AERATION PADS

APPLICATION	Hopper and silo
POWDER	Fine, light and dry powders (cement and lime)
PROBLEM SOLVING	Bridge and rat-holing

FEATURES

DUTY CYCLE	Continuous
WORKING PRESSURE	0.2 bar (2.9 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve
AIR SUPPLY QUALITY	Class 5.4.1.
WORKING TEMPERATURE	From -20 °C to 80 °C (from -4 °F to 176 °F)
TECHNOLOGY	Fluidization
MATERIAL	Supralen filter, Polyamide body

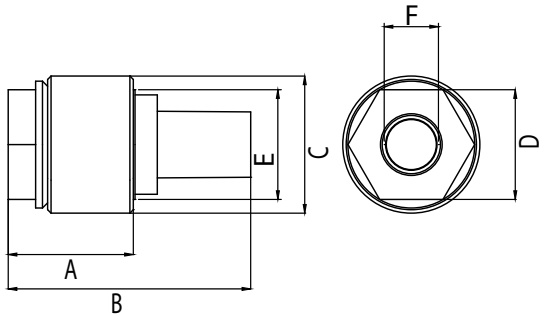
NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive

U – Aeration nozzles

The fluidization nozzles U025 and U060 facilitate the flow of material into silos and hoppers thanks to a constant injection of low pressure air.
They are a very economical solution and can be easily mounted from the outside on existing silos and hoppers.

X



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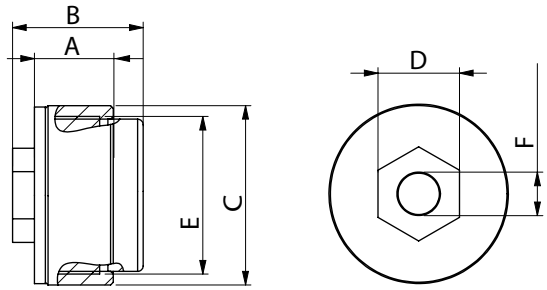


Model	Drawing	AIR CONSUMPTION			
		0.2 bar (2.9 psi)		1 bar (14 psi)	
		l/min*	Cfm	l/min*	Cfm
U025	X	27	0.95	96	3.39
U060	J	30	1.05	90	3.17

** With l/min we indicate Nl/min so the air consumption normalized at the rated pressure.*
U060 have been tested up to 3 bar in our R&D Dept. showing an air consumption of 210 l/m at 3 bar. Based on application and working condition a lower pressure is always preferable.

Model	DIMENSIONAL SPECIFICATIONS									
	A		B		CØ		D		E	F
	mm	in	mm	in	mm	in	mm	in	BSPP	BSPP
U025	40	1.6	70	2.7	40	1.6	33	1.3	1	1/2
U060	31	1.2	48	1.9	66	2.6	30	1.2	2	3/8

U - AERATION NOZZLES

APPLICATION	Hopper and silo - piping
POWDER	Fine and dry powders (cement and lime)
PROBLEM SOLVING	Bridge and rat-holing

FEATURES

DUTY CYCLE	Continuous
WORKING PRESSURE	From 0.2 bar to 1 bar (from 2.9 psi to 14 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve
AIR SUPPLY QUALITY	Class 5.4.1
WORKING TEMPERATURE	From -20 °C to 80 °C (from -4 °F to 176 °F)
TECHNOLOGY	Fluidization
MATERIAL	U060 - ring carbon steel, Supralen PE filter, Polyamide body U025 - ring carbon steel, sintered brass filter, Polyamide body

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive

VBS – Bin aerators for silos

The range of VBS vibro-aerators is the result of years of research and development that have led to the creation of a unique and immediately recognizable product, thanks to the patented Tramontana® membrane technology.

VBS concentrates the air flow more towards the outlet of the silo, considerably speeding up the discharge of the material and, therefore, reducing the unloading times and improving the productivity of the plants.

K

VBS,
VBSI

VBSI-HT

VBSI-MD

Z

VBS Micro,
VBSI Micro

VBSI-HT
Micro

VBSI-MD Micro

W

VBSME

VBS - BIN AERATORS FOR SILOS

APPLICATION	Silos, hoppers, pipes
POWDER	Dry, fine, granular
PROBLEM SOLVING	Bridge and rat-holing

FEATURES

DUTY CYCLE	Continuous or discontinuous
WORKING PRESSURE	From 0.8 bar to 6 bar (from 12 psi to 87 psi) - Suggested: 4 bar (58 psi) VBS-Micro: from 0.8 bar to 2 bar (from 12 psi to 29 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve
AIR SUPPLY QUALITY	Non-Lubricated (Class. 5.4.1) DR Inert Gases
TECHNOLOGY	Vibro-Aerator
MATERIAL	Silicone membrane [food grade] - FDA 177.2600, red membrane for high temperature, blu membrane metal detectable Aluminium / stainless steel stem AISI 316 [Food & Pharmaceutical grade] Polyamide body with steel ring, Supralen filter [VBSE]

OPTIONS

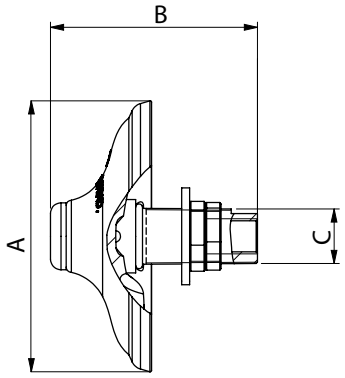
EXTERNAL MOUNTING KIT	Available in rectangular or circular shape made of stainless steel
PLUG & GO	External quick installation system

PLUG & GO System

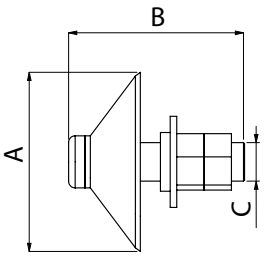
NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive

K



Z



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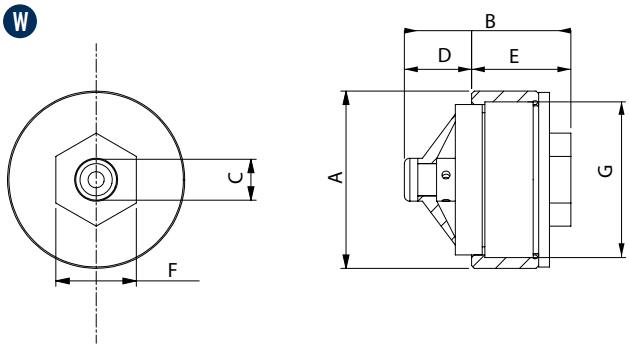


Model	Drawing	Membrane colour	Stem material	AIR CONSUMPTION								WORKING TEMPERATURE			
				0.8 bar (11.6 psi)		2 bar (29 psi)		4 bar (58 psi)		6 bar (87 psi)		°C		°F	
				l/min*	Cfm	l/min*	Cfm	l/min*	Cfm	l/min*	Cfm	Min.	Max.	Min.	Max.
VBS	K	White	Aluminium	600	21.1	800	28.2	950	33.5	1150	40.6	-40	170	-40	338
VBSI	K	White	Stainless steel	600	21.1	800	28.2	950	33.5	1150	40.6	-40	170	-40	338
VBSIHT	K	Red	Stainless steel	600	21.1	800	28.2	950	33.5	1150	40.6	-40	235	-40	455
VBSIMD	K	Blue	Stainless steel	600	21.1	800	28.2	950	33.5	1150	40.6	-40	170	-40	338
VBSME	W	White	Nylon	130	4.6	150	5.3	-	-	-	-	-40	80	-40	176
VBSM	Z	White	Aluminium	150	5.3	200	7.1	-	-	-	-	-40	170	-40	338
VBSMI	Z	White	Stainless steel	150	5.3	200	7.1	-	-	-	-	-40	170	-40	338
VBSMIHT	Z	Red	Stainless steel	150	5.3	200	7.1	-	-	-	-	-40	235	-40	455
VBSMIMD	Z	Blue	Stainless steel	150	5.3	200	7.1	-	-	-	-	-40	170	-40	338

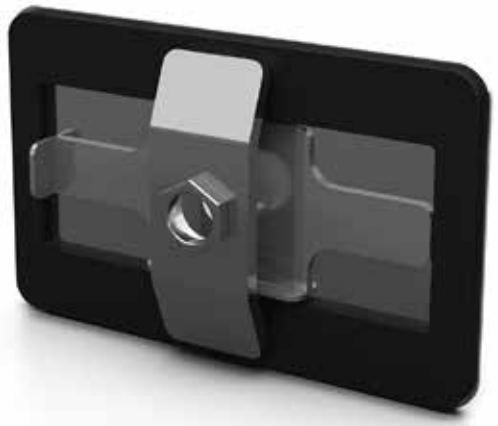
** Indicates in Nl/min the total air consumption normalized at the rated pressure.*

Model	Drawing	DIMENSIONAL SPECIFICATIONS												
		A		B		C	D		E		F		G	
		mm	in	mm	in	BSPP	mm	in	mm	in	mm	in	BSPP	
VBS	K	104	4.1	79	3.1	1/2	-	-	-	-	-	-	-	
VBSI	K	104	4.1	79	3.1	1/2	-	-	-	-	-	-	-	
VBSIHT	K	104	4.1	79	3.1	1/2	-	-	-	-	-	-	-	
VBSIMD	K	104	4.1	79	3.1	1/2	-	-	-	-	-	-	-	
VBSME	W	66	2.6	62	2.5	3/8	25	1	37	1.5	30	1.2	2	
VBSM	Z	55	2.2	54	2.1	1/4	-	-	-	-	-	-	-	
VBSMI	Z	55	2.2	54	2.1	1/4	-	-	-	-	-	-	-	
VBSMIHT	Z	55	2.2	54	2.1	1/4	-	-	-	-	-	-	-	
VBSMIMD	Z	55	2.2	54	2.1	1/4	-	-	-	-	-	-	-	

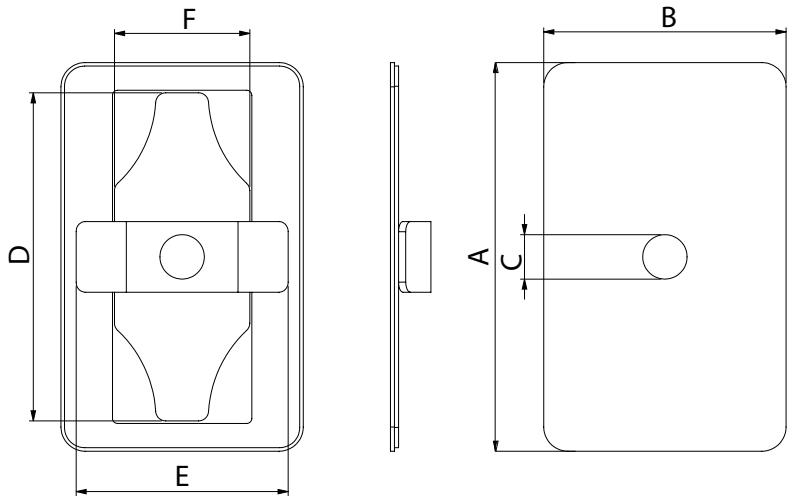
NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

RPKIT – External rectangular mounting kit

RPKIT is very useful to install VBS from outside on rectangular silos/hoppers.



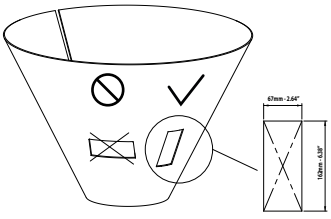
NOTE:
THE VBS IS NOT INCLUDED IN THE KIT

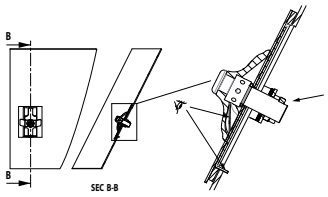


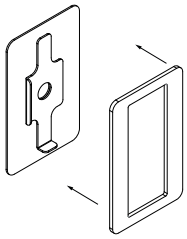
Model	DIMENSIONAL SPECIFICATIONS											
	A		B		CØ		D		E		F	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
RPKIT	192.5	7.6	120	4.7	22	0.9	162.5	6.4	105	4.1	67	2.6

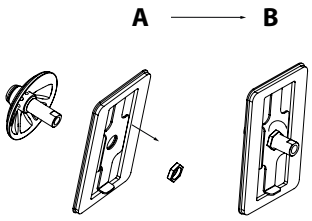
EXTERNAL RECTANGULAR MOUNTING KIT

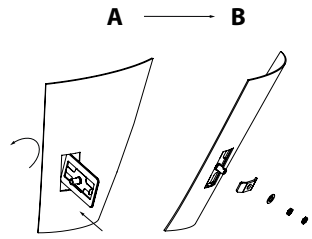
PROBLEM SOLVING	Allows the installation on silos that are difficult to reach from the inside
MATERIAL	AISI 304 Stainless steel rectangular plate EPDM sealing gasket
CUT OUT SIZE	67 x 162.5 mm (2.64" x 6.40")
WORKING TEMPERATURE	From -20 °C to 95 °C (from -4 °F to 203 °F)

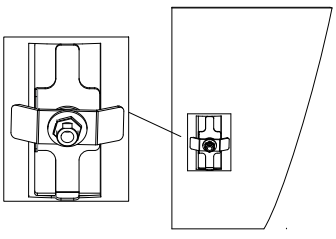












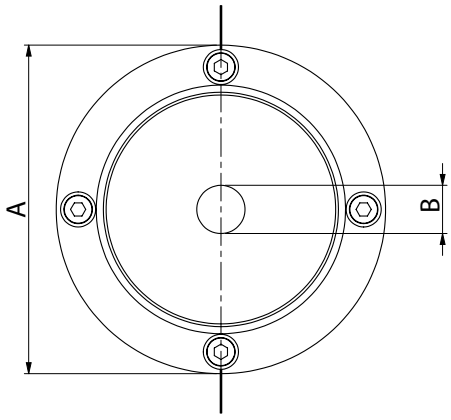
NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

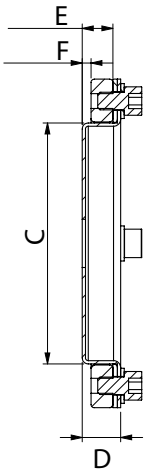
» Conformity with European Directive

CPKIT – External circular mounting kit

CPKIT is very useful to install VBS from outside on circular silos/hoppers.

NOTE:
THE VBS IS NOT INCLUDED IN THE KIT

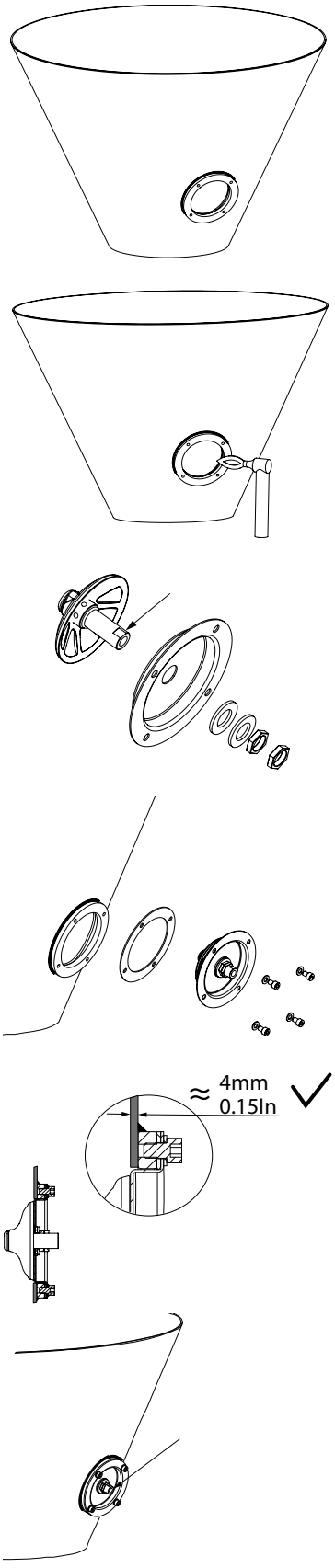




Model	DIMENSIONAL SPECIFICATIONS											
	AØ		BØ		CØ		D		E		F	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
CPKIT	150	5.9	22	0.9	110	4..3	17,5	0.7	14	0.5	4	0.1

EXTERNAL CIRCULAR MOUNTING KIT

PROBLEM SOLVING	Allows the installation on silos that are difficult to reach from the inside
MATERIAL	AISI 304 Stainless steel circular plate S235 JR steel flange NBR sealing gasket
CUT OUT SIZE	Ø 110 mm (Ø 4.33")
WORKING TEMPERATURE	From -40 °C to 80 °C (from -40 °F to 174 °F)



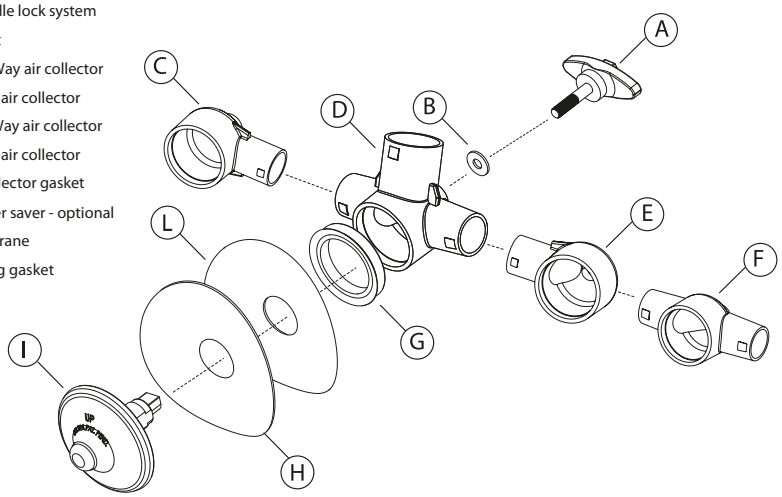
NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive

VBT – Bin aerators for truck

The range of VBT vibro-aerators is the result of years of research and development that have led to the creation of a unique and high-performance product. Thanks to the special Tramontana® membrane, the VBT concentrates the air flow towards the outlet of the cone, significantly speeding the discharge of the material and, therefore, reducing the discharge times from silo trailers or tanks.

(A) T-handle lock system
(B) Gasket
(C) RH 1-Way air collector
(D) 3-Way air collector
(E) LH 1-Way air collector
(F) 2-Way air collector
(G) Air collector gasket
(H) Hopper saver - optional
(I) Membrane
(L) Sealing gasket



VBT - BIN AERATORS FOR TRUCK

APPLICATION	Dry bulk tank trailer, rail tanker
POWDER	Dry, fine, granular
PROBLEM SOLVING	Bridging and rat-holing

FEATURES

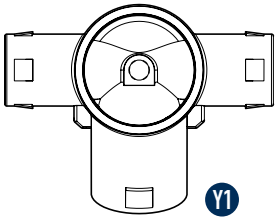
DUTY CYCLE	Continuous (suitable to be used with blower)
WORKING PRESSURE	From 0.7 bar to 2 bar (from 10 psi to 29 psi)
PNEUMATIC CIRCUIT	Suitable standard pneumatic bulk trailer, works with all standard designs
WORKING TEMPERATURE	From -40 °C to 170 °C (from -40 °F to 340 °F)
TECHNOLOGY	Vibro-aeration
MATERIAL	White silicone membrane Blue silicone membrane: metal detectable, comply with FDA 177.2600 Stem - Black polyarylamide glass-fiber reinforced comply with 10/2011/EC - FDA - UL94 Manifold - Black polyarylamide glass-fiber reinforced comply with 10/2011/EC - FDA - UL94 Manifold - Transparent polysulpone comply with ISO 10993 - FDA 21 CFR 177.1655 - NSF 51 - UL94 T-handle - Black polyarylamide glass-fiber reinforced / Stainless steel thread shaft Silicone gasket

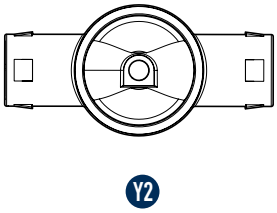
OPTIONS

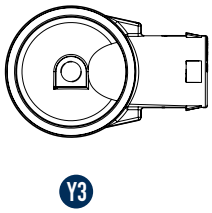
HOPPER SAVER PLATE	AISI 304 Stainless steel EPDM Gasket

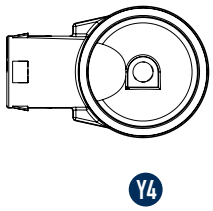
NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

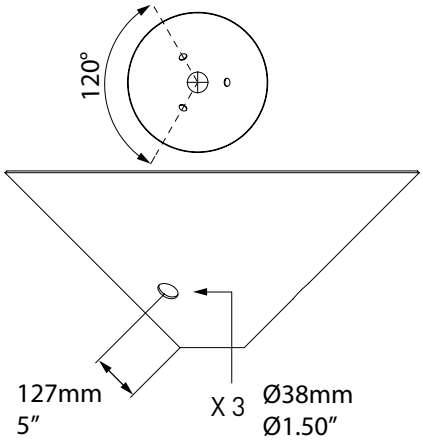
» Conformity with European Directive

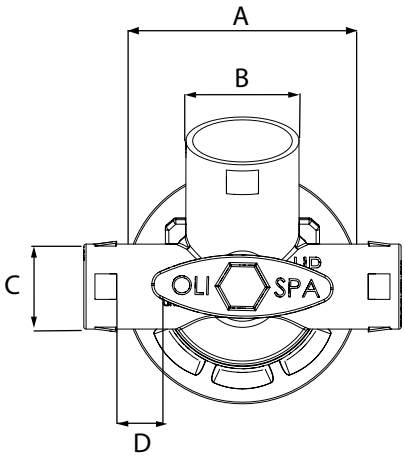












Model	Drawing	WORKING TEMPERATURE				DIMENSIONAL SPECIFICATIONS							
		°C		°F		A		B		C		D	
		Min.	Max.	Min.	Max.	mm	in	mm	in	mm	in	mm	in
VBT30	Y1	-40	170	-40	338	104	4.1	50.8	2	38	1 - 1/2	6 - 7	0.24 - 0.28
VBT20	Y2	-40	170	-40	338	104	4.1	-	-	38	1 - 1/2	6 - 7	0.24 - 0.28
VBT1L	Y3	-40	170	-40	338	104	4.1	-	-	38	1 - 1/2	6 - 7	0.24 - 0.28
VBT1R	Y4	-40	170	-40	338	104	4.1	-	-	38	1 - 1/2	6 - 7	0.24 - 0.28

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive

PG – Air Cannon

PG air cannons prevents the formation of bridges and rat holes thanks to the high pressure air jet which is blown inside the silos or hoppers on which it is installed.

The air jet is parallel to the internal wall of the silo, in this way the materials with an irregular shape, dry and light, flow down without any accumulation.

PG - AIR CANNON

APPLICATION	Hopper and silo
POWDER	Large size, irregular shape, fibrous dust and flakes
PROBLEM SOLVING	Bridge, rat-holing and incomplete clean out

FEATURES

DUTY CYCLE	Discontinuous
WORKING PRESSURE	From 3 bar to 6 bar (from 43 psi to 87 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve
AIR SUPPLY QUALITY	Class 5.4.1.
WORKING TEMPERATURE	From -20 °C to 80 °C (from -4 °F to 176 °F)
MAX NOISE LEVEL	105 dB (a)
TECHNOLOGY	High pressure jet
MATERIAL	Aluminium body, steel plate and aluminium head

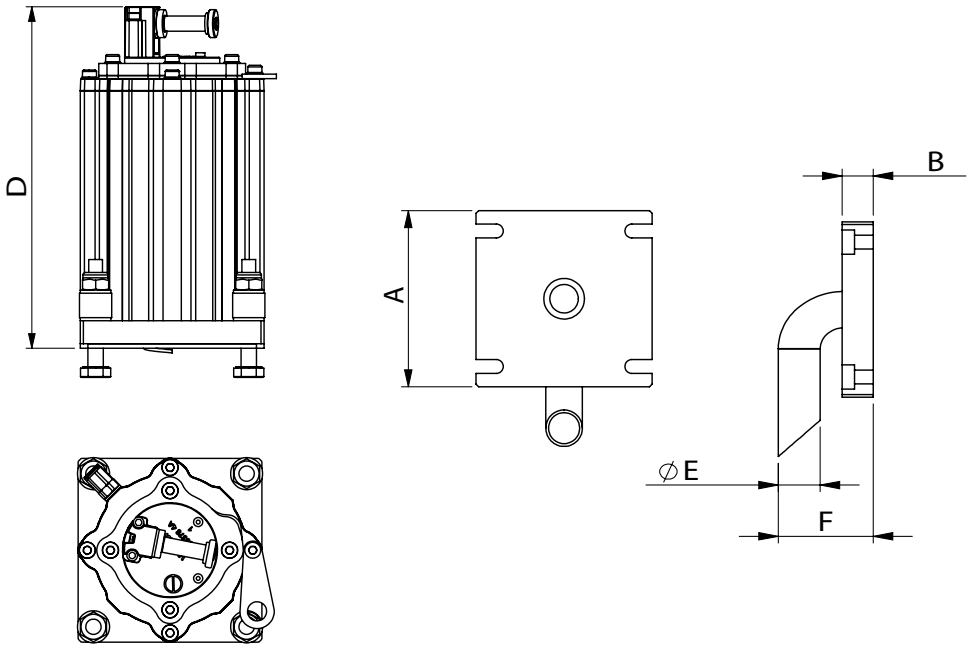
OPTIONS

TIMER	Adjustable from 30 sec to 45 min
MULTI-TENSION COILS	From 24v (Ac/Dc) to 230v
FULLY PNEUMATIC KIT	Available
ELECTRONIC BOARD AND EXTENSION	To control up to 15 cannons

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive

U



Model	AIR CONSUMPTION (L per cycle)				I Ø Pipe		Air inlet
	3 bar	43 psi	6 bar	87 psi	mm	in	BSPP
PG 40	2.6		4.6		8	0.3	1/8" BSPP
PG 63	6.4		11.6		8	0.3	1/4" BSPP
PG 80	12.5		21		8	0.3	1/4" BSPP

Model	Drawing	DIMENSIONAL SPECIFICATIONS A		B		D		E	F		Weight	
		mm	in	mm	in	mm	in	Ø	mm	in	Kg	lb
PG 40	U	130	5.12	20	0.78	223	8.77	27	61	2.40	6	13.22
PG 63	U	163	6.41	20	0.78	263	10.35	42	88	3.46	14	30.86
PG 80	U	200	7.87	25	0.98	318	12.52	48	104	4.09	21	46.30

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive

PS – Single Impact

The PS series hammers produce a high impact force thanks to a single impact between the internal piston and the metal base welded on the walls of silos and hoppers. This action is particularly effective in moving powders that tends to compact under pressure or to adhere to the walls, as well as the majority of granular and bulk materials. For this reason the PS series products represent the ideal solution to the problems of formation of bridges and mouse holes.

PS type "A"

PS type "B"

PS - SINGLE IMPACT - PNEUMATIC LINEAR VIBRATORS

APPLICATION	Hopper and silo
POWDER	All kind of powders and granular material, hygroscopic included
PROBLEM SOLVING	Bridge, rat-holing and incomplete clean out

FEATURES

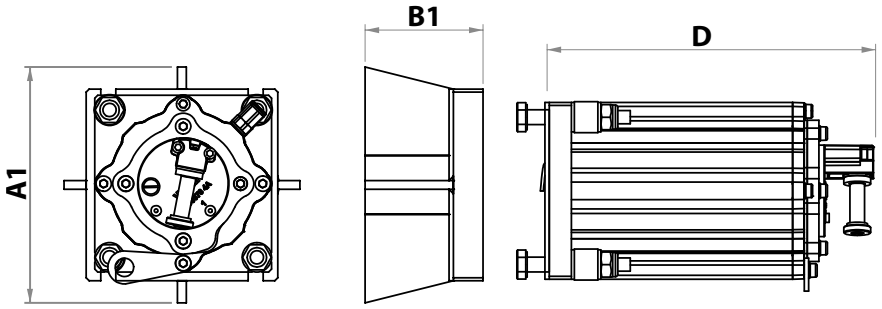
DUTY CYCLE	Discontinuous
WORKING PRESSURE	From 3 bar to 6 bar (from 43 psi to 87 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve
AIR SUPPLY QUALITY	Class 5.4.1.
WORKING TEMPERATURE	From -20 °C to 80 °C (from -4 °F to 176 °F)
MAX NOISE LEVEL	125 dB(a)
TECHNOLOGY	Single impact
MATERIAL	Aluminium body, steel attachment plate, aluminium head

OPTIONS

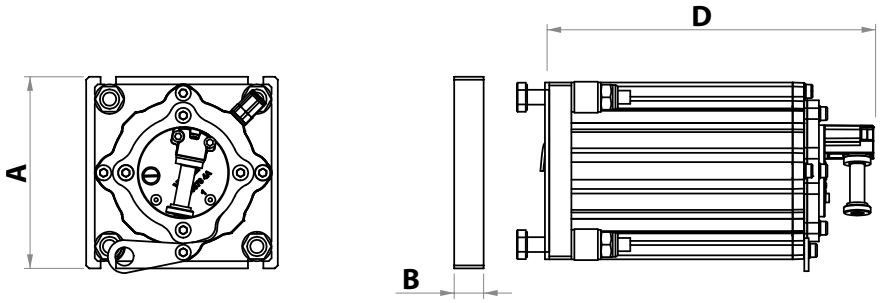
KIT ATEX	II3D Ex h IIIC T85°C Dc - PP plate, WKL® tablet
TIMER	Adjustable from 30 sec to 45 min
MULTI-TENSION COILS	From 24V (AC/DC) to 230V
ELECTRONIC BOARD AND EXTENSION	To control up to 15 hammers
FULLY PNEUMATIC KIT	Available
STAINLESS STEEL PLATE TYPE B	Available Steel AISI 304

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive
» II3D Ex h IIIC T85°C Dc with ATEX KIT



PS TYPE "A"



PS TYPE "B"

PS TYPE "A" [≤ 3mm HOPPER THICKNESS]

Model	DIMENSIONAL SPECIFICATIONS							
	A1		B1		D		Weight	
	mm	in	mm	in	mm	in	Kg	lb
PS 40	160	6.3	80	3.1	223	8.8	6.7	14.8
PS 63	200	7.9	95	3.7	263	10.3	15.9	35.0
PS 80	250	9.8	119	4.7	318	12.5	25.6	56.4

PS TYPE "B" [> 3mm HOPPER THICKNESS]

Model	DIMENSIONAL SPECIFICATIONS							
	A		B		D		Weight	
	mm	in	mm	in	mm	in	Kg	lb
PS 40	130	5.1	20	0.7	223	8.8	5.1	11.2
PS 63	163	6.4	20	0.7	263	10.3	13.1	28.9
PS 80	200	7.9	25	1.0	318	12.5	20.1	44.3

Model	3 BAR						6 BAR								
	Energy		Force		Air consumption		Energy		Force		Air consumption		I Ø Pipe		Air inlet
	J	lbf/in	N	lb	l/cycle	Cf/cycle	J	lbf/in	N	lb	l/cycle	Cf/cycle	mm	in	BSPP
PS 40	8.4	74.3	199	44.7	2.6	0.09	18.1	160.2	429	96.4	4.6	0.16	8	0.3	1/8" BSPP
PS 63	28.8	254.9	589	132.4	6.4	0.22	62.0	548.7	1268	285.0	11.6	0.41	8	0.3	1/4" BSPP
PS 80	59.2	523.9	846	190.1	12.5	0.44	153.0	1354	2186	491.4	21.0	0.74	8	0.3	1/4" BSPP

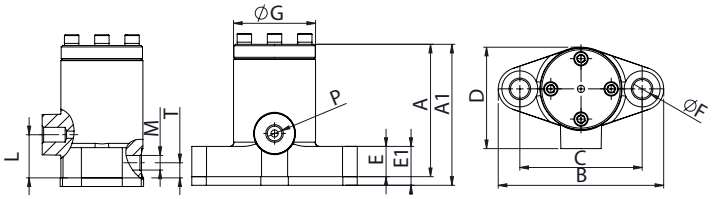
NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive
» II3D Ex h IIIC T85°C Dc with ATEX KIT

P – Continuous Impact

The pneumatic vibrators of the P range produce an extremely high linear impact force. This is possible thanks to the impact of a piston, positioned inside the body, on the metal base welded directly on the external wall of the hopper.
P are extremely effective in preventing the formation of scale, bridges, mouse holes, lumps or deposits of material on the walls.

R



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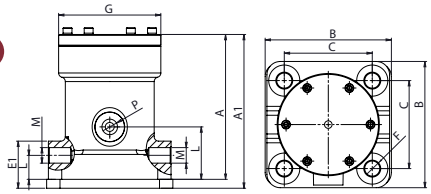


DIMENSIONAL SPECIFICATIONS

Model	Draw.	A		A1		B		C		D		E		E1		F		G		H		P	L		M	N		Weight	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	IN BSPP	mm	in	OUT BSPP	mm	in	kg	lb
P25	R	92	3.6	98	3.9	115	4.5	85	3.3	70	2.8	21	0.8	27	1.1	13	0.5	58	2.3	30	1.2	1/4"	10	0.4	1/4"	25	1.0	2.2	4.9
P40	R	121	4.8	127	5.0	148	5.8	110	4.3	91	3.6	25	1.0	31	1.2	17	0.7	75	3.0	45	1.8	3/8"	16	0.6	3/8"	35	1.4	4.5	9.9
P60	S	163	6.4	173	6.4	138x142	5.4x5.5	99x99	3.9x3.9	125	4.9	28	1.1	38	1.5	17	0.7	115	4.5	60	2.4	1/2"	27	1.1	2x1/2"	60	2.4	11	24.3

Model	2 BAR (29 PSI)							4 BAR (58 PSI)							6 BAR (87 PSI)						
	Vibr.	Force		Working moment		Air consumption		Vibr.	Force		Working moment		Air consumption		Vibr.	Force		Working moment		Air consumption	
	V/min	N	lb	kgcm	inlb	l/min*	Cfm	V/min	N	lb	kgcm	inlb	l/ min*	Cfm	V/min	N	lb	kgcm	inlb	l/min*	Cfm
P25	2500	294	66	0.43	0.37	55	1.9	3800	680	153	0.43	0.37	80	2.8	4500	954	214	0.43	0.37	125	4.4
P40	1650	484	109	1.63	1.41	70	2.5	2200	860	193	1.63	1.41	120	4.2	2800	1396	314	1.63	1.41	150	5.3
P60	1200	1296	291	4.11	3.57	100	3.5	1600	2304	518	4.11	3.57	250	8.8	1900	3250	731	4.11	3.57	300	10.6

** Indicates in Nl/min the total air consumption normalized at the rated pressure.*

P - CONTINUOUS IMPACT - PNEUMATIC LINEAR VIBRATORS

APPLICATION	Hopper silo - salt spreader - dump trailer - rail cars o rail wagons
POWDER	Hygroscopic - humid - sticky
PROBLEM SOLVING	Bridge, rat-holing and incomplete clean out

FEATURES

DUTY CYCLE	Continuous
WORKING PRESSURE	From 2 bar to 6 bar (from 29 psi to 87 psi)
PNEUMATIC CIRCUIT	Filter + regulator + lubrication + 3/2 ways valve N.C.
AIR SUPPLY QUALITY	Class 5.4.4.
WORKING TEMPERATURE	From -20 °C to +200 °C (from -4 °F to +392 °F) without ATEX Kit From -20 °C to +110 °C (from -4 °F to +230 °F) with ATEX Kit
MAX NOISE LEVEL	100 dB(a)
TECHNOLOGY	Piston impact
MATERIAL	Grey cast iron body (powder painted) - aluminium cover

OPTIONS

KIT ATEX	II 2D c Tx PP plate, WKL® tablet II 2G c Tx

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive
» II2G Ex h IIB Tx Gb II2D Ex h IIIC Tx Db

P-US - Continuous Impact

P-US are special models, designed for the American market to be interchangeable with many local products.

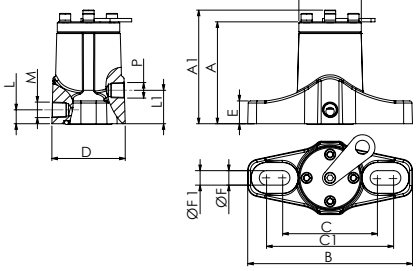

P10 R


P20 R


P30 R


P30 S

P



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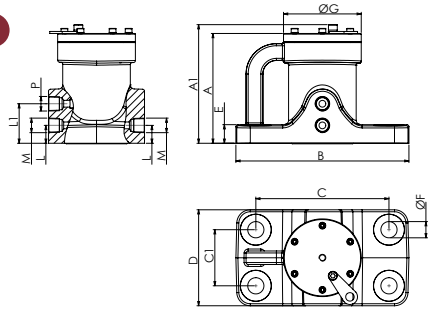

Model	Draw.	DIMENSIONAL SPECIFICATIONS																											
		A		A1		B		C		C 1		D		E		Ø F		Ø F 1		Ø G		P	L		L 1		M	Weight	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	IN NPT	mm	in	mm	in	OUT NPT	kg	lb
P10 R	P	92	3.6	102	4.0	148	5.8	85	3.3	114	4.5	66	2.6	21	0.8	13	0.5	/	/	56	2.2	1/4"	30.	1.2	13	0.5	1/4"	2.2	4.9
P20 R	P	121	4.7	134	5.2	234	9.1	110	4.3	191	7.5	96	3.7	25	1.0	19	0.7	17	0.7	75	2.9	3/8"	45	1.7	19	0.7	3/8"	5.5	12.1
P30 R	P	163	6.3	176	6.8	235	9.2	153	6.0	190	7.4	130	5.1	28	1.1	16	0.6	/	/	115	4.5	1/2"	59	2.3	27	1.0	1/2"	11	24.3
P30 S	Q	163	6.3	176	6.8	256	10	197	7.7	83	3.2	142	5.5	28	1.1	24	0.9	/	/	115	4.5	1/2"	59	2.3	27	1.0	1/2"	14	30.9

Model	2 BAR (29 PSI)							4 BAR (58 PSI)							6 BAR (87 PSI)						
	Vibr.	Force		Working moment		Air consumption		Vibr.	Force		Working moment		Air consumption		Vibr.	Force		Working moment		Air consumption	
	V/min	N	lb	kgcm	inlb	l/min*	Cfm	V/min	N	lb	kgcm	inlb	l/min*	Cfm	V/min	N	lb	kgcm	inlb	l/min*	Cfm
P10 R	2500	294	66	0.43	0.37	55	1.9	3800	680	153	0.43	0.37	80	2.8	4500	954	214	0.43	0.37	200	7.1
P20 R	1650	484	109	1.63	1.41	70	1.1	2200	860	193	1.63	1.41	120	4.2	2800	1396	314	1.63	1.41	250	8.8
P30 R	1200	1296	291	4.11	3.57	100	3.5	1600	2304	518	4.11	3.57	250	8.8	1900	3250	731	4.11	3.57	400	14.1
P30 S	1200	1296	291	4.11	3.57	100	3.5	1600	2304	518	4.11	3.57	250	8.8	1900	3250	731	4.11	3.57	400	14.1

** Indicates in Nl/min the total air consumption normalized at the rated pressure.*

P-US - CONTINUOUS IMPACT - PNEUMATIC LINEAR VIBRATORS

APPLICATION	Hopper silo - salt spreader - dump trailer - rail cars o rail wagons
POWDER	Hygroscopic - humid - sticky
PROBLEM SOLVING	Bridge, rat-holing and incomplete clean out

FEATURES

DUTY CYCLE	Continuous
WORKING PRESSURE	From 2 bar to 6 bar (from 29 psi to 87 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve + lubrication + 3/2 ways valve N.C.
AIR SUPPLY QUALITY	Class 5.4.4.
WORKING TEMPERATURE	From -20 °C to 200 °C (from -4 °F to 392 °F)
MAX NOISE LEVEL	100 dB(a)
TECHNOLOGY	Piston impact
MATERIAL	Grey cast iron body (powder painted) - aluminium cover

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive
» II2G Ex h IIB Tx Gb II2D Ex h IIIC Tx Db

K – Cushioned

In pneumatic vibrators K series, the vibration is generated by the linear movement of a floating piston without impact between the internal surfaces.

They represent an excellent solution to rat holes as well as for internal applications that require a noise level below 80 dB (A).

K - CUSHIONED - PNEUMATIC LINEAR VIBRATORS

APPLICATION	Hopper silo - compaction - vibrating feeder - table and channel
POWDER	Hygroscopic - dusty and granular and electrostatic materials
PROBLEM SOLVING	Bridge and rat-holing - detaching and compacting

FEATURES

DUTY CYCLE	Continuous
WORKING PRESSURE	From 2 bar to 6 bar (from 29 psi to 87 psi)
PNEUMATIC CIRCUIT	K: Filter + flow control valve + lubrication + 3/2 ways valve N.C. K-LF: Filter + flow control valve + 3/2 ways valve N.C. for lubrication free version
AIR SUPPLY QUALITY	K: Class 5.4.4 K-LF: Class 5.4.1 for lubrication free version
WORKING TEMPERATURE	From -20 °C to 130 °C (from -4 °F to 266 °F)
MAX NOISE LEVEL	80 dB(a)
TECHNOLOGY	Piston cushioned
ATEX	II 2D c Tx II 2G c Tx
MATERIAL	Aluminium body and Ixef® cover

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive
» II2G Ex h IIB Tx Gb II2D Ex h IIIC Tx Db

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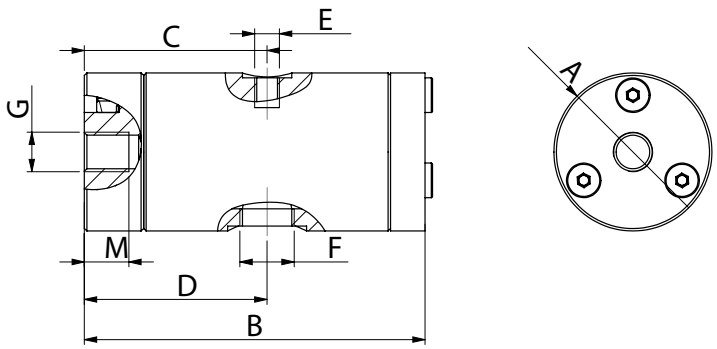

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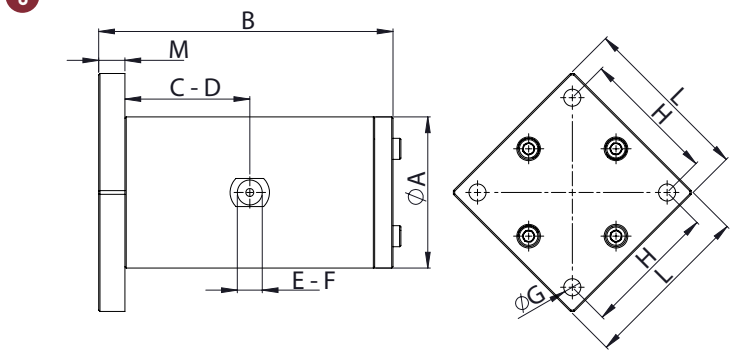


Model	Draw.	DIMENSIONAL SPECIFICATIONS																			
		AØ		B		C		D		E	F	GØ	H		L		M		Weight	
		mm	in	mm	in	mm	in	mm	in	IN	OUT		mm	in	mm	in	mm	in	kg	lb
K 15 - K 15 LF	N	32	1.3	69	2.7	37	1.5	37	1.5	M5	1/8" BSPP	M8	/	/	/	/	9	0.4	0.2	0.4
K 22 - K 22 LF	N	45	1.8	105	4.1	56	2.2	56	2.2	1/8"BSPP	1/8" BSPP	M10	/	/	/	/	13	0.5	0.5	1.1
K 30 - K 30 LF	N	60	2.4	116	4.6	62	2.4	62	2.4	1/4" BSPP	1/4" BSPP	M12	/	/	/	/	13	0.5	1.0	2.3
K 45 - K 45 LF	O	80	3.2	151	5.9	78	3.1	78	3.1	1/4" BSPP	3/8" BSPP	ø 8.5	72	2.8	90	3.5	15	0.6	2.9	6.3
K 60 - K 60 LF	O	115	4.5	224	8.8	115	4.5	115	4.5	1/2" BSPP	1/2" BSPP	ø 13	102	4.0	130	5.1	20	0.8	4.6	10.1

LF = Lubrication Free

Model	2 BAR (29 PSI)							4 BAR (58 PSI)							6 BAR (87 PSI)						
	Vibr.	Force		Working moment		Air consumption		Vibr.	Force		Working moment		Air consumption		Vibr.	Force		Working moment		Air consumption	
	VPM	N	lb	kgcm	inlb	l/min*	cfm	VPM	N	lb	kgcm	inlb	l/min*	cfm	VPM	N	lb	kgcm	inlb	l/min*	cfm
K 15	5040	33.4	7.5	0.02	0.02	9	0.3	5880	45.4	10.2	0.02	0.02	15	0.5	6720	59.4	13.3	0.02	0.02	21	0.7
K 22	2880	95.4	21.4	0.21	0.18	32	1.1	3480	139.3	31.3	0.21	0.18	50	1.8	4080	191.5	43.0	0.21	0.18	73	2.6
K 30	2640	171.8	38.6	0.45	0.39	45	1.6	3120	239.9	53.9	0.45	0.39	90	3.2	3720	341.1	76.7	0.45	0.39	140	4.9
K 45	1920	390.9	87.8	1.94	1.68	56	2.0	2400	610.8	137.3	1.94	1.68	125	4.4	2580	705.9	158.6	1.94	1.68	194	6.8
K 60	1260	722.6	162.4	8.31	7.21	70	2.7	1560	1107.7	248.9	8.31	7.21	125	4.4	2160	2123.7	477.3	8.31	7.21	202	7.1
K 15 LF	5040	33.4	7.5	0.02	0.02	9	0.3	5880	45.4	10.2	0.02	0.02	15	0.5	6720	59.4	13.3	0.02	0.02	21	0.7
K 22 LF	2880	81.8	18.4	0.18	0.16	32	1.1	3480	119.4	26.8	0.18	0.16	50	1.8	4080	164.1	36.9	0.18	0.16	73	2.6
K 30 LF	2640	160.3	36.0	0.42	0.36	45	1.6	3120	223.9	50.3	0.42	0.36	90	3.2	3720	318.4	71.5	0.42	0.36	140	4.9
K 45 LF	1920	394.2	88.6	1.95	1.69	56	2.0	2400	615.9	138.4	1.95	1.69	125	4.4	2580	711.7	159.9	1.95	1.69	194	6.8
K 60 LF	1260	722.6	162.4	8.31	7.21	70	2.7	1560	1107.7	248.9	8.31	7.21	125	4.4	2160	2123.7	477.3	8.31	7.21	202	7.1

LF = Lubrication Free

** Indicates in Nl/min the total air consumption normalized at the rated pressure.*

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive
» II2G Ex h IIB Tx Gb II2D Ex h IIIC Tx Db

F – Adjustable

The pneumatic vibrators of the F range generate linear vibration thanks to the movement of a floating piston.
To meet different application needs, the F series is available in various shapes, sizes and materials.
It is possible to apply additional masses to the piston in order to modify the frequency and the force developed.

M

L1

L

H

F - ADJUSTABLE - PNEUMATIC LINEAR VIBRATORS

APPLICATION	Vibrating feeder - table and channel
POWDER	Hygroscopic - dusty and granular
PROBLEM SOLVING	Bridge and rat-holing - detaching and compacting

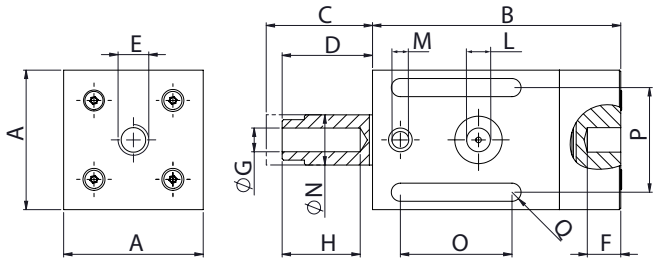
FEATURES

DUTY CYCLE	Continuous
WORKING PRESSURE	From 2 bar to 6 bar (from 29 psi to 87 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve + lubrication + 3/2 ways valve N.C.
AIR SUPPLY QUALITY	Class 5.4.4.
WORKING TEMPERATURE	From -20 °C to 200 °C (from -4 °F to 392 °F) | F15P - from -20 °C to 100 °C (from -4 °F to 212 °F)
MAX NOISE LEVEL	80 dB(a)
TECHNOLOGY	Adjustable piston
ATEX	II 2D c Tx II 2G c Tx
MATERIAL	Grey cast iron body(powered painted) F15P: nylon body and aluminium cover F18: aluminium body (square shape)

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive
» II2G Ex h IIB Tx Gb II2D Ex h IIIC Tx Db

M



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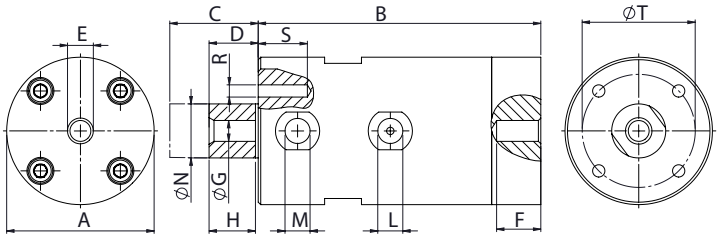

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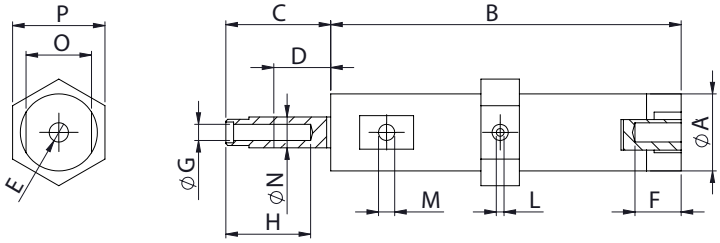


DIMENSIONAL SPECIFICATIONS

Model	Draw.	A		B		C		D		E	F		G	H		I		L	M	N		O		P		Q		R	S		T		Weight	
		mm	in	mm	in	mm	in	mm	in		mm	in		mm	in	mm	in	IN	OUT	mm	in	mm	in	mm	in	mm	in		mm	in	mm	in	kg	lb
F8	H	20	0.8	91	3.6	30	1.2	5	0.2	M6	10	0.4	M5	20	0.8	7	0.3	M5	M5	8	0.3	17	0.7	24	0.9	/	/	/	/	/	/	/	0.1	0.2
F15	L	50	2.0	115	4.5	41	1.6	7	0.3	M10	15	0.6	M10	15	0.6	13	0.5	1/8" BSPP	1/8" BSPP	15	0.6	12	0.5	/	/	36	1.4	M6	18	0.70	36	1.4	1.5	3.3
F15P	L1	50	2.0	115	4.5	39	1.5	9	0.4	M10	15	0.6	M10	22	0.9	13	0.5	1/8" BSPP	1/8" BSPP	16	0.6	/	/	/	/	/	/	M6	12	0.47	36	1.4	0.5	1.1
F18	M	50	2.0	89	3.5	32	1.3	10	0.4	M10	10	0.4	M10	26	1.0	12	0.5	1/8" BSPP	1/8" BSPP	18	0.7	40	1.6	38	1.5	7	0.3	/	/	/	/	/	0.6	1.3
F25	L	60	2.4	115	4.5	45	1.8	10	0.4	M10	15	0.6	M10	15	0.6	19	0.8	1/4" BSPP	1/4" BSPP	22	0.9	15	0.6	/	/	46	1.8	M6	18	0.70	46	1.8	2.3	5.1
F40	L	85	3.4	140	5.5	57	2.2	13	0.5	M16	17	0.7	M16	20	0.8	36	1.4	1/4" BSPP	3/8" BSPP	40	1.6	20	0.8	/	/	65	2.6	M6	16	0.62	65	2.6	5.7	12.5
F85	L	160	6.3	122	4.8	52	2.1	22	0.9	M20	30	1.2	M20	30	1.2	/	/	3/8" BSPP	2x3/8" BSPP	85	3.3	/	/	/	/	/	/	M10	/	/	140	5.5	16.5	36.3

Model	2 BAR							4 BAR							6 BAR						
	Vibr.	Force		Working moment		Air consumption		Vibr.	Force		Working moment		Air consumption		Vibr.	Force		Working moment		Air consumption	
	V/min	N	lb	kgcm	inlb	l/min*	cfm	V/min	N	lb	kgcm	inlb	l/min*	cfm	V/min	N	lb	kgcm	inlb	l/min*	cfm
F8	2020	9.1	2	0.04	0.04	7	0.2	2950	19.3	4.3	0.04	0.04	19	0.7	3600	28.8	6.5	0.04	0.04	28	1.0
F15	2280	75.7	17	0.27	0.23	20	0.7	2520	92.5	20.8	0.27	0.23	38	1.3	2820	115.9	26	0.27	0.23	67	2.4
F15P	1920	54.5	12.3	0.27	0.23	20	0.7	2160	69.0	15.5	0.27	0.23	42	1.5	2340	81	18.2	0.27	0.23	80	2.8
F18	2070	71.8	16.1	0.31	0.27	29	1.0	2520	106.4	23.9	0.31	0.27	55	1.9	3300	182.5	41	0.31	0.27	100	3.5
F25	1860	108	24.3	0.57	0.49	32	1.1	2040	129.9	29.2	0.57	0.49	60	2.1	2220	179.8	40.4	0.57	0.49	105	3.7
F40	1380	259.6	58.3	2.49	2.16	80	2.8	1560	331.8	74.6	2.49	2.16	190	6.7	1740	412.8	92.8	2.49	2.16	320	11.2
F85	1680	2137.2	480.3	13.82	12.00	240	8.4	1980	2968.6	667.1	13.82	12.00	390	13.7	2280	3936.3	884.6	13.82	12.00	580	20.4

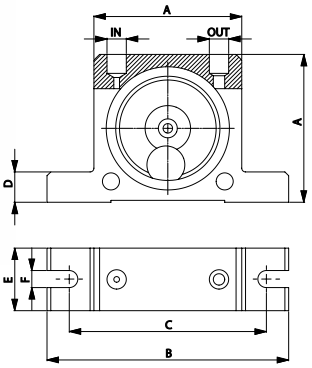
** Indicates in Nl/min the total air consumption normalized at the rated pressure.*

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive
» II2G Ex h IIB Tx Gb II2D Ex h IIIC Tx Db

S - Ball vibrator

The OLI "S" series pneumatic rotational vibrators generate high frequency vibration thanks to a steel ball that rotates inside two housings made of hardened and ground steel.



Model	DIMENSIONAL SPECIFICATIONS														
	A		B		C		D		E		F		IN-OUT	Weight	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb
S8	50	2.0	86	3.4	68	2.7	12	0.5	20	0.8	7	0.3	1/8" BSPP	0.13	0.29
S10	50	2.0	86	3.4	68	2.7	12	0.5	20	0.8	7	0.3	1/8" BSPP	0.13	0.29
S13	65	2.6	113	4.5	90	3.5	16	0.6	25	1.0	9	0.4	1/4" BSPP	0.26	0.57
S16	65	2.6	113	4.5	90	3.5	16	0.6	28	1.1	9	0.4	1/4" BSPP	0.30	0.66
S20	80	3.2	128	5.1	104	4.1	16	0.6	33	1.3	9	0.4	1/4" BSPP	0.53	1.17
S25	80	3.2	128	5.1	104	4.1	16	0.6	38	1.5	9	0.4	1/4" BSPP	0.63	1.39
S30	100	3.9	160	6.3	130	5.1	20	0.8	45	1.8	11	0.4	3/8" BSPP	1.13	2.49
S36	100	3.9	160	6.3	130	5.1	20	0.8	50	2.0	11	0.4	3/8" BSPP	1.34	2.95

Model	VIBRATION			C.F. MAX						AIR CONSUMPTION					
	Vpm			2 bar (29 psi)		4 bar (58psi)		6 bar (87 psi)		2 bar (29 psi)		4 bar (58psi)		6 bar (87 psi)	
	2 bar (29 psi)	4 bar (58psi)	6 bar (87 psi)	kg	lb	kg	lb	kg	lb	l/min*	CF/min	l/min*	CF/min	l/min*	CF/min
S8	25500	31000	35000	13	29	26	57	36	79	83	2.9	145	5.1	195	6.9
S10	22500	28000	34000	25	55	47	103	71	156	92	3.2	150	5.3	200	7.1
S13	15000	18500	22500	32	70	55	121	87	191	94	3.3	158	5.6	225	7.9
S16	13000	17000	19500	45	99	80	176	110	242	122	4.3	200	7.1	280	9.9
S20	10500	14500	16500	72	158	122	268	172	378	130	4.6	230	8.1	340	12.0
S25	9200	12200	14000	93	205	157	345	205	451	160	5.7	290	10.2	425	15.0
S30	7800	9700	12500	151	332	247	543	321	706	215	7.6	375	13.2	570	20.1
S36	7300	9000	10000	206	453	315	693	405	891	260	9.2	475	16.8	675	23.8

** Indicates in Nl/min the total air consumption normalized at the rated pressure.*

S - BALL - PNEUMATIC ROTARY VIBRATORS

APPLICATION	Hopper and silo - screen - vibrating table - chute
POWDER	Dry and granular
PROBLEM SOLVING	Bridge and rat-holing - friction reduction - separation

FEATURES

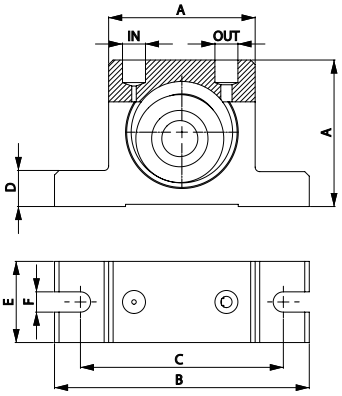
DUTY CYCLE	Discontinuous
WORKING PRESSURE	From 2 bar to 6 bar (from 29 psi to 87 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve + lubrication + 3/2 ways valve N.C.
AIR SUPPLY QUALITY	Class 5.4.4.
WORKING TEMPERATURE	From -20 °C to 150 °C (from -4 °F to 302 °F)
MAX NOISE LEVEL	90 dB(a)
TECHNOLOGY	Rotary vibration - high frequency
ATEX	II 2D c Tx II 2G c Tx
MATERIAL	Aluminium body, zinc plate cover and Ixef® covers

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

- Conformity with European Directive
- II2G Ex h IIB Tx Gb II2D Ex h IIIC Tx Db
- III Db c TX

OR - Roller vibrator

In the OR series, high frequency vibration is generated by a roller that describes an epicycloidal movement inside two housings made of hardened and ground steel. The OR series is characterized by high speed, great centrifugal force (up to 783 kg) and low air consumption.



Model	DIMENSIONAL SPECIFICATIONS														
	A		B		C		D		E		F		IN-OUT	Weight	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb
OR50	50	2.0	86	3.4	68	2.7	12	0.5	30	1.2	7	0.3	1/8" BSPP	0.37	0.81
OR65	65	2.6	113	4.5	90	3.5	16	0.6	36	1.4	9	0.4	1/4" BSPP	0.76	1.67
OR80	80	3.2	128	5.1	102	4.0	16	0.6	40	1.6	9	0.4	1/4" BSPP	1.27	2.79
OR100	100	3.9	160	6.3	130	5.1	20	0.8	52	2.1	11	0.4	1/4"-3/8" BSPP	2.60	5.72

Model	VIBRATION			C.F. MAX						AIR CONSUMPTION					
	Vpm			2 bar (29 psi)		4 bar (58psi)		6 bar (87psi)		2 bar (29 psi)		4 bar (58psi)		6 bar (87psi)	
	2 bar (29 psi)	4 bar (58psi)	6 bar (87psi)	kg	lb	kg	lb	kg	lb	l/min*	CF/min	l/min*	CF/min	l/min*	CF/min
OR50	21000	25000	29500	188	413	281	619	355	780	78	2.8	144	5.1	204	7.2
OR65	19000	22000	26000	235	516	439	966	552	1215	100	3.5	198	7.0	296	10.5
OR80	14000	16000	21500	342	752	587	1292	624	1373	122	4.3	255	9.0	378	13.3
OR100	6750	9750	11000	289	637	604	1329	783	1722	132	4.7	284	10.0	412	14.5

** Indicates in Nl/min the total air consumption normalized at the rated pressure.*

OR - ROLLER - PNEUMATIC ROTARY VIBRATORS

APPLICATION	Hopper and silo - piping - chute - concrete compaction
POWDER	Hygroscopic
PROBLEM SOLVING	Bridge and rat-holing - friction reduction - separation

FEATURES

DUTY CYCLE	Discontinuous
WORKING PRESSURE	From 2 bar to 6 bar (from 29 psi to 87 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve + lubrification + 3/2 ways valve N.C.
AIR SUPPLY QUALITY	Class 5.4.4.
WORKING TEMPERATURE	From -20 °C to 200 °C (from -4 °F to 392 °F)
MAX NOISE LEVEL	<90 dB(a)
TECHNOLOGY	Roller vibration - high frequency and centrifugal force
ATEX	II 2D c Tx II 2G c Tx
MATERIAL	Aluminium body and brass cover

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

- Conformity with European Directive
- II2G Ex h IIB Tx Gb II2D Ex h IIIC Tx Db
- III Db c TX

OT – Turbine vibrator

The OT generate a high frequency vibration due to rotation at high speed of a turbine with integrated masses.
Compared to the S (ball) and OR (roller) series, the OT series is quieter and has a higher rotation speed thanks to the presence of bearings, developing centrifugal forces of up to 781 kg.

OT - TURBINE - PNEUMATIC ROTARY VIBRATORS

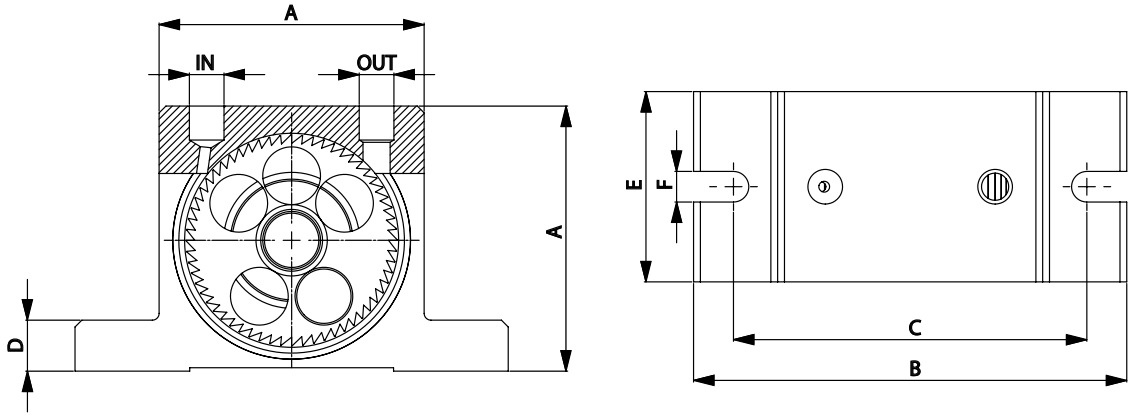
APPLICATION	Hopper and silo - vibrating table - chute - concrete consolidation
POWDER	Dry and granular (food) - concrete
PROBLEM SOLVING	Bridge and rat-holing - friction reduction - separation - consolidation

FEATURES

DUTY CYCLE	Discontinuous
WORKING PRESSURE	From 2 bar to 6 bar (from 29 psi to 87 psi)
PNEUMATIC CIRCUIT	Filter + flow control valve + 3/2 ways valve N.C.
AIR SUPPLY QUALITY	Class 5.4.1.
WORKING TEMPERATURE	From -20 °C to 120 °C (from -4 °F to 248 °F)
MAX NOISE LEVEL	<90 dB(a)
TECHNOLOGY	Turbine vibration - high frequency and centrifugal force
ATEX	II 2D c Tx II 2G c Tx
MATERIAL	Aluminium body

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive
» II2G Ex h IIB Tx Gb II2D Ex h IIIC Tx Db
» III Db c TX



Model	DIMENSIONAL SPECIFICATIONS														
	A		B		C		D		E		F		IN–OUT	Weight	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in		kg	lb
OT8	50	2.0	86	3.4	68	2.7	12	0.5	33	1.3	7	0.3	1/8" BSPP	0.25	0.55
OT10	50	2.0	86	3.4	68	2.7	12	0.5	33	1.3	7	0.3	1/8" BSPP	0.26	0.56
OT10S	50	2.0	86	3.4	68	2.7	12	0.5	33	1.3	7	0.3	1/8" BSPP	0.26	0.58
OT13	65	2.6	113	4.5	90	3.5	16	0.6	42	1.7	9	0.4	1/4" BSPP	0.57	1.24
OT16	65	2.6	113	4.5	90	3.5	16	0.6	42	1.7	9	0.4	1/4" BSPP	0.58	1.28
OT16S	65	2.6	113	4.5	90	3.5	16	0.6	42	1.7	9	0.4	1/4" BSPP	0.61	1.35
OT20	80	3.2	128	5.0	104	4.1	16	0.6	56	2.2	9	0.4	1/4" BSPP	1.09	2.40
OT25	80	3.2	128	5.0	104	4.1	16	0.6	56	2.2	9	0.4	1/4" BSPP	1.12	2.46
OT25S	80	3.2	128	5.0	104	4.1	16	0.6	56	2.2	9	0.4	1/4" BSPP	1.20	2.64
OT30	100	3.9	160	6.3	130	5.1	20	0.8	73	2.9	11	0.4	3/8" BSPP	2.20	4.84
OT36	100	3.9	160	6.3	130	5.1	20	0.8	73	2.9	11	0.4	3/8" BSPP	2.30	5.06
OT36S	100	3.9	160	6.3	130	5.1	20	0.8	73	2.9	11	0.4	3/8" BSPP	2.53	5.57

Model	VIBRATION			C.F. MAX						AIR CONSUMPTION					
	Vpm			2 bar (29 psi)		4 bar (58psi)		6 bar (87psi)		2 bar (29 psi)		4 bar (58psi)		6 bar (87psi)	
	2 bar (29 psi)	4 bar (58psi)	6 bar (87psi)	kg	lb	kg	lb	kg	lb	l/min*	CF/min	l/min*	CF/min	l/min*	CF/min
OT8	34000	38000	42000	110	242	205	451	292	641	45	1.6	81	2.9	110	3.9
OT10	26000	33000	38000	105	231	171	377	252	554	45	1.6	81	2.9	110	3.9
OT10S	17200	23400	26000	72	159	147	323	187	410	45	1.6	81	2.9	110	3.9
OT13	24500	28500	31000	202	444	263	579	300	659	122	4.3	204	7.2	285	10.1
OT16	18000	20000	21000	194	427	239	527	264	581	122	4.3	204	7.2	285	10.1
OT16S	11500	15000	17500	129	285	196	431	234	516	122	4.3	204	7.2	285	10.1
OT20	14500	19000	23000	251	552	404	888	526	1157	184	6.5	318	11.2	452	16.0
OT25	13200	15500	17000	244	537	336	740	508	1117	184	6.5	318	11.2	452	16.0
OT25S	9000	11000	13500	214	471	335	738	483	1063	184	6.5	318	11.2	452	16.0
OT30	11000	12500	14500	351	771	721	1586	781	1718	322	11.4	542	19.1	749	26.5
OT36	8500	11500	12000	341	751	698	1536	749	1648	322	11.4	542	19.1	749	26.5
OT36S	6000	7000	8500	406	893	706	1554	754	1660	322	11.4	542	19.1	749	26.5

** Indicates in Nl/min the total air consumption normalized at the rated pressure.*

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

- Conformity with European Directive
- II2G Ex h IIB Tx Gb II2D Ex h IIIC Tx Db
- III Db c TX

MVE-DC - Direct current electric vibrators

The MVE DC electric vibrators consist of an electric motor (12 or 24 volts) housed in a robust aluminium casing, with eccentric weights mounted on both ends of the shaft.

The MVE-DC is designed for concrete mixers and other industrial or agricultural vehicles, capable of withstanding harsh environments.

II 3D Temp. Class: ● 100 °C

					ELECTRICAL SPECIFICATIONS			
Unbalance (inlb)	Model	rpm	Centrifugal Force (lb)	Weight (lb)	Input Power (Hp)	Nominal Current A max	Cable Gland	
0.44	MVE 50/3N-DC-10A0-12V	3,000	110	10	0.11	6.60	M16	●
0.44	MVE 50/3N-DC-10A0-24V	3,000	110	10	0.11	3.30	M16	●
0.93	MVE 120/3N-DC-23A0-12V	3,000	258	16	0.15	9.60	M20	●
0.93	MVE 120/3N-DC-23A0-24V	3,000	258	16	0.15	4.80	M20	●
1.81	MVE 200/3N-DC-23A0-12V	3,000	441	14.33	0.21	13.30	M20	●
1.81	MVE 200/3N-DC-23A0-24V	3,000	441	14.33	0.21	6.70	M20	●
4.51	MVE 500/3N-DC-40A0-24V	3,000	1,168	35	0.35	11.00	M20	●
9.72	MVE 1500/3N-DC-50A0-24V	3,000	3,563	51	0.70	21.50	M20	●

MVE-DC - DIRECT CURRENT ELECTRIC VIBRATORS

APPLICATION	Dump truck - concrete pump - automotive hopper - salt spreader - tipper trailer
POWDER	Granular - Concrete
PROBLEM SOLVING	Bridge and rat-holing

FEATURES

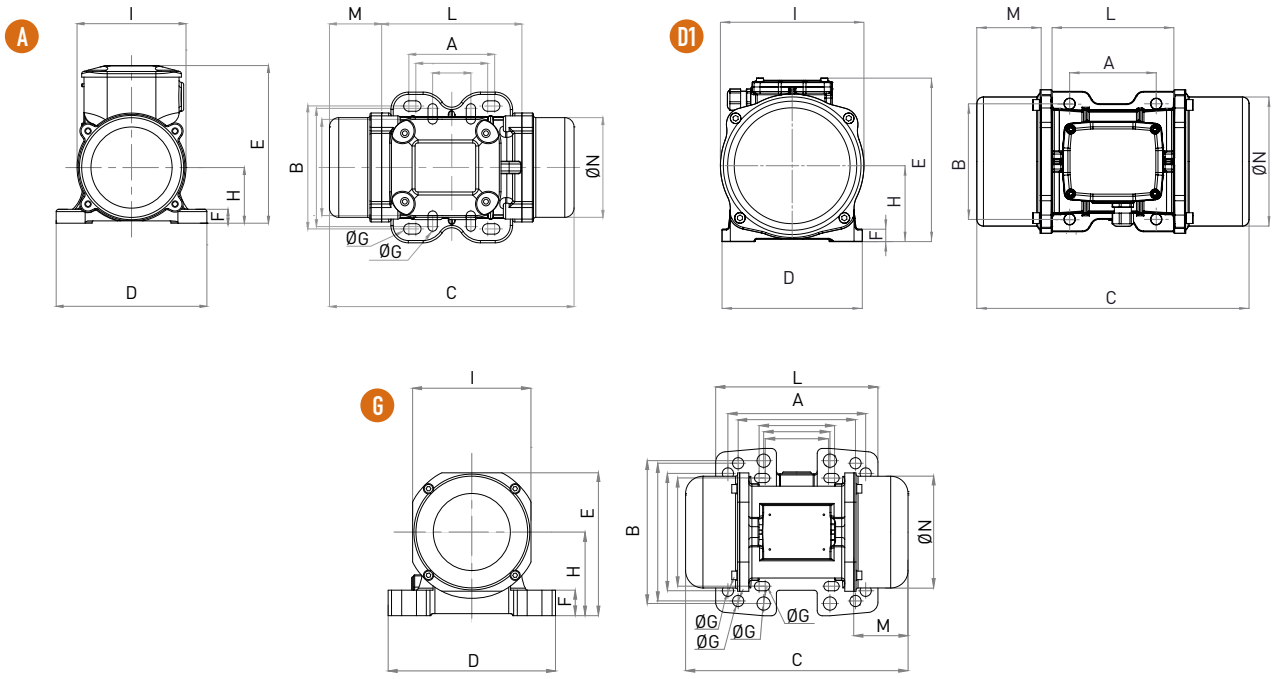
DUTY CYCLE	Continuous - S1
ENVIRONMENT TEMPERATURE	From -20 °C to 40 °C (from -4 °F to 104 °F)
MAX NOISE LEVEL	76 dB(a)
ATEX	II3D Ex tc IIIC Tx IP69K
MATERIAL	Body aluminium - stainless steel /aluminium (powder painted) cover

OPTIONS

CABLE	Available on request, customisable

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

- II3D Ex tc IIIC Tx IP69K
- Equipment and protective system intended for use in potentially explosive atmospheres (Zone 22) - Directive 2014/34/UE
- Compliance with Essential Health and Safety Requirements
- IEC 60034-1, IEC EN 60079-0, IEC EN 60079-31



Model	Drawing	Size	DIMENSIONAL SPECIFICATIONS (inches)												
			C	M	A	B	Ø G	Holes N°	D	E	F	H	I	L	N
MVE 50/3N-DC-10A0-12V	A	10A0	8.38	1.77	Multiple Footprint: 2.44-2.91	4.17	0.35	4	5.12	5.35	0.47	1.89	3.70	4.76	3.35
MVE 50/3N-DC-10A0-24V	A	10A0	8.38	1.77	1.30	3.27-4.02	0.28	4	5.12	5.35	0.47	1.89	3.70	4.76	3.35
MVE 120/3N-DC-23A0-12V	G	23A0	8.58	2.09	Multiple Footprint: 2.44-2.91	4.17	0.35	4	6.46	5.51	0.98	3.23	4.57	6.26	4.33
MVE 120/3N-DC-23A0-24V	G	23A0	8.58	2.09	2.56	5.51	0.51	4	6.46	5.51	0.98	3.23	4.57	6.26	4.33
MVE 200/3N-DC-23A0-12V	G	23A0	8.58	2.09	4.53	5.31	0.43	4	6.46	5.51	0.98	3.23	4.57	6.26	4.33
MVE 200/3N-DC-23A0-24V	G	23A0	8.58	2.09	5.31	4.53	0.43	4	6.46	5.51	0.98	3.23	4.57	6.26	4.33
MVE 500/3N-DC-40A0-24V	D1	40A0	12.99	3.07	4.13	5.51	0.51	4	6.69	7.70	0.59	3.62	6.85	6.50	6.30
MVE 1500/3N-DC-50A0-24V	D1	50A0	12.75	2.48	4.72	6.69	0.71	4	8.19	8.26	0.71	3.78	7.28	7.55	6.49

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

MVE – 2 poles electric vibrators – Three Phase

Electric vibrating motors for general applications in various industrial sectors on vibrating tables and silos and hoppers. Available in 2 poles 1ph and 3 ph, as well as in direct current with different voltages, they are suitable for use with inverters (variable frequency drive) and have a centrifugal force ranging from 20 to 800 kg, adjustable on each individual model.
Being the amplitude of the vibration inversely proportional to the speed on rigid structures like silos or hopper a 2 poles MVE is preferred to avoid damages to the welding points.

Class II Div.2: Temp. Class **T4**
ExII 2D Temp. Class: ● 100 °C ● 135 °C
* Terminal Connections: **Y** High Voltage

Unbalance (inlb)		Model	Centrifugal Force (lb)		Weight (lb)		ELECTRICAL SPECIFICATIONS								
							Input Power (Hp)		Standard Nominal Current		* Terminal Connections	Ia/In		Cable Gland	
50Hz	60Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz (400V)	60Hz (460V)		50Hz	60Hz	Metric	
0.57	0.43	MVE 160/2E-10A0	146	157	9		0.12	0.12	0.25	0.23	Y	3.2	3.2	M16	●
0.85	0.57	MVE 220/2E-10A0	216	209	11		0.12	0.12	0.25	0.23	Y	3.2	3.2	M16	●
1.61	1.13	MVE 440/2E-20A0	412	417	15		0.20	0.24	0.35	0.30	Y	3.5	3.5	M20	●
1.61	1.13	MVE 440/2E-23A0	412	417	16		0.20	0.24	0.35	0.30	Y	3.5	3.5	M20	●
2.77	1.94	MVE 690/2E-30A0	708	712	22		0.34	0.38	0.52	0.45	Y	3.8	3.7	M20	●
3.45	2.47	MVE 890/2E-30A0	897	906	23		0.36	0.44	0.58	0.60	Y	3.7	3.7	M20	●
4.46	3.20	MVE 1200/2E-40A0	1,168	1,177	35		0.67	0.78	0.96	0.97	Y	4.2	4.4	M20	●
6.47	4.59	MVE 1700/2E-40A0	1,671	1,687	36		0.79	0.82	1.25	1.24	Y	4.5	5.2	M20	●
6.81	4.80	MVE 1800/2E-50A0	1,750	1,764	45		0.94	1.13	1.45	1.50	Y	4.0	4.0	M20	●

MVE - 2 POLES ELECTRIC VIBRATORS - THREE PHASE

APPLICATION	Hopper and silo
POWDER	Fine - dry granular
PROBLEM SOLVING	Bridge and rat-holing

FEATURES

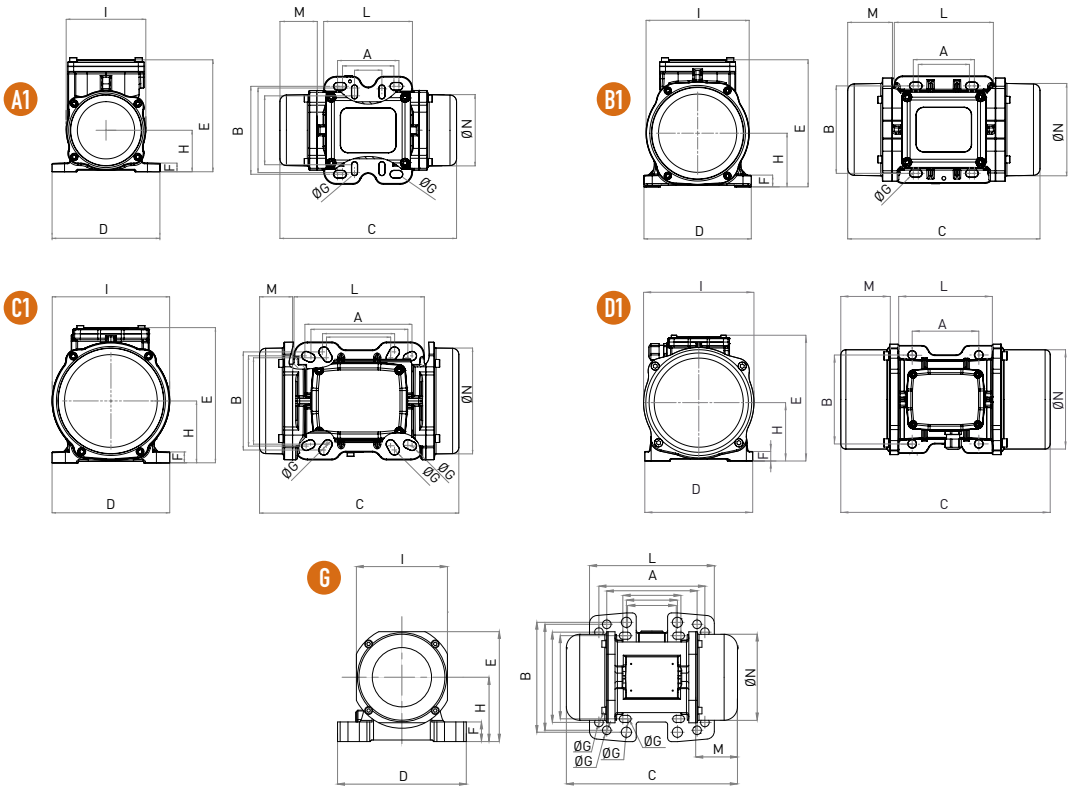
DUTY CYCLE	Continuous - S1
FREQUENCY RANGE	From 20Hz to 60Hz [with inverter]
ENVIRONMENT TEMPERATURE	From -20 °C to 40 °C (from -4 °F to 104 °F)
MAX NOISE LEVEL	76 dB(a)
ATEX	II2D Ex tb IIIC Tx Db IP66
MATERIAL	Aluminium body; aluminium (powder painted) cover

OPTIONS

OTHER CERTIFICATIONS	Increase Safety certification from to size 20 to 50 Available version suitable to work up to +55 (+131 °F)

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

- II2D Ex tb IIIC Tx Db IP66
- Equipment and protective system intended for use in potentially explosive atmospheres (Zone 21) - Directive 2014/34/UE
- Compliance with Essential Health and Safety Requirements
- IEC 60034-1, IEC EN 60079-0, IEC EN 60079-31



Model	Drawing	Size	DIMENSIONAL SPECIFICATIONS (inches)													
			C		M		A	B	Ø G	Holes	D	E	F	H	I	L	N
60Hz			50Hz	60Hz	50Hz	60Hz				n°							
MVE 160/2E-10A0	A1	10A0	8.39		1.77		Multiple Footprint			4	5.12	5.31	0.41	1.97	3.78	4.21	3.35
							2.44-2.91	4.17	0.35								
							1.30	3.27-4.02	0.28								
MVE 220/2E-10A0	A1	10A0	8.39		1.77		Multiple Footprint			4	5.12	5.31	0.41	1.97	3.78	4.21	3.35
							2.44-2.91	4.17	0.35								
							1.30	3.27-4.02	0.28								
MVE 440/2E-20A0	B1	20A0	9.17		2.13		2.44-2.91	4.17	0.35	4	5.12	6.06	0.59	2.56	4.92	4.72	4.41
MVE 440/2E-23A0	G	23A0	8.74		2.17		Multiple Footprint			4	6.46	5.51	0.98	3.23	4.57	6.26	4.33
							2.44-2.91	4.17	0.35								
							2.56	5.51	0.51								
							4.53	5.31	0.43								
							5.31	4.53	0.43								
MVE 690/2E-30A0	C1	30A0	10.00		1.65		Multiple Footprint			4	5.91	6.81	0.59	3.11	5.91	6.54	5.28
							3.15	4.33	0.43								
							3.54	4.92	0.51								
							4.88	4.33	0.43								
							5.31	4.53	0.43								
MVE 890/2E-30A0	C1	30A0	10.79		2.05		Multiple Footprint			4	5.91	6.81	0.59	3.11	5.91	6.54	5.28
							3.15	4.33	0.43								
							3.54	4.92	0.51								
							4.88	4.33	0.43								
							5.31	4.53	0.43								
MVE 1200/2E-40A0	D1	40A0	12.99		3.07		4.13	5.51	0.51	4	6.69	7.72	0.59	3.62	6.65	6.54	6.22
MVE 1700/2E-40A0	D1	40A0	12.99		3.07		4.13	5.51	0.51	4	6.69	7.72	0.59	3.62	6.65	6.54	6.22
MVE 1800/2E-50A0	D1	50A0	12.64		2.44		4.72	6.69	0.67	4	8.19	8.27	0.87	3.78	7.28	7.56	6.69

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Class II Div.2 Group F, G T4
» Conform to UL 1004-1,UL 1004-3, UL60079-31, UL60079-0, CSA 60079-0, CSA 60079- 31, CSA 22.2 N°100, CSA 22.2 N°77

MVE – 2 poles electric vibrators – Single Phase

When three phase current is not available a particular type of electric vibrating motor single phase could be took into consideration.
They develop a centrifugal force up to 323 Kg.

Class II Div.2: Temp. Class **T4**
ExII 2D Temp. Class: ● 100 °C

Unbalance (inlb)		Model	Centrifugal Force (lb)		Weight (lb)		ELECTRICAL SPECIFICATIONS							
							Input Power (Hp)		Nominal Current A max		Cable Gland	Capacitor *		
50Hz	60Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz (230V)	60Hz (115V)	Metric	50Hz (230V)	60Hz (115V)	
0.57	0.43	MVE 160/2E-10A0-M	146	157	9		0.11	0.12	0.43	1.03	M16	3.0	6.3	●
0.85	0.57	MVE 220/2E-10A0-M	216	209	11		0.13	0.15	0.54	1.30	M16	4.0	8.0	●
1.61	1.13	MVE 440/2E-20A0-M	412	417	15		0.24	0.28	1.14	2.62	M20	8.0	16.0	●
1.61	1.13	MVE 440/2E-23A0-M	412	417	16		0.24	0.28	1.14	2.62	M20	8.0	16.0	●
2.77	1.94	MVE 690/2E-30A0-M	708	712	22		0.36	0.38	1.58	3.43	M20	12.5	25.0	●

** NOTE: Capacitor not supplied with vibrator (to be ordered separately)*

MVE - 2 POLES ELECTRIC VIBRATORS - SINGLE PHASE

APPLICATION	Hopper and silo - feeder - screen
POWDER	Fine - dry granular
PROBLEM SOLVING	Bridge and rat-holing

FEATURES

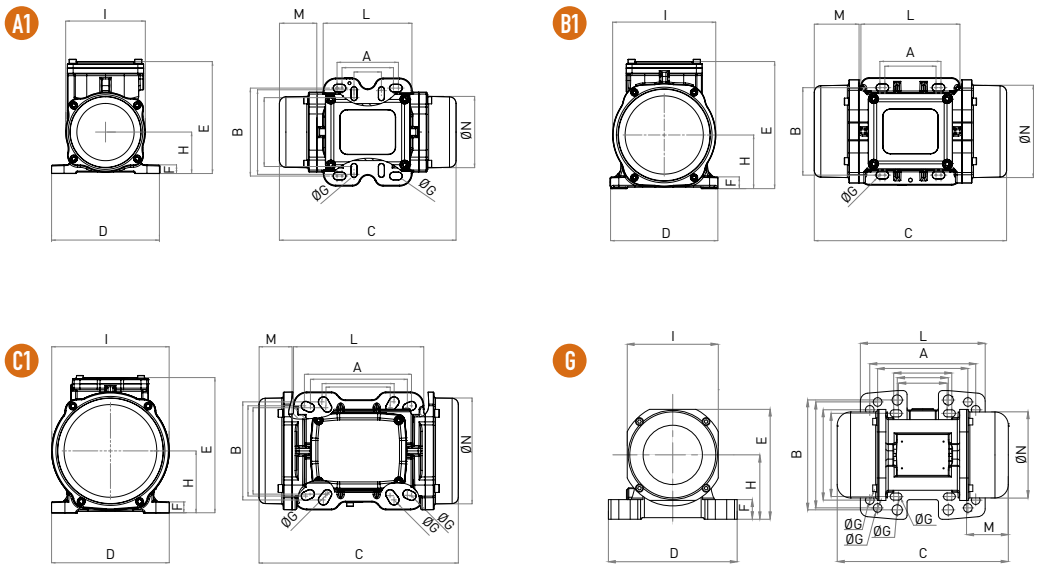
DUTY CYCLE	Continuous - S1
FREQUENCY RANGE	From 20Hz to 60Hz [with inverter]
ENVIRONMENT TEMPERATURE	From -20 °C to 40 °C (from -4 °F to 104 °F)
MAX NOISE LEVEL	76 dB(a)
ATEX	II2D Ex tb IIIC Tx Db IP66
MATERIAL	Aluminium body; aluminium (powder painted) cover

ACCESSORIES

CAPACITOR	Available

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

- II2D Ex tb IIIC Tx Db IP66
- Equipment and protective system intended for use in potentially explosive atmospheres (Zone 21) - Directive 2014/34/UE
- Compliance with Essential Health and Safety Requirements
- IEC 60034-1, IEC EN 60079-0, IEC EN 60079-31



Model	Drawing	Size	DIMENSIONAL SPECIFICATIONS (inches)														
			C		M		A	B	Ø G	Holes	D	E	F	H	I	L	N
60Hz			50Hz	60Hz	50Hz	60Hz				n°							
MVE 160/2E-10A0-M	A1	10A0	8.39		1.77		Multiple Footprint			4	5.12	5.31	0.41	1.97	3.78	4.21	3.35
							2.44-2.91	4.17	0.35								
							1.30	3.27-4.02	0.28								
MVE 220/2E-10A0-M	A1	10A0	8.39		1.77		Multiple Footprint			4	5.12	5.31	0.41	1.97	3.78	4.21	3.35
							2.44-2.91	4.17	0.35								
							1.30	3.27-4.02	0.28								
MVE 440/2E-20A0-M	B1	20A0	9.17		2.13		2.44-2.91	4.17	0.35	4	5.12	6.06	0.59	2.56	4.92	4.72	4.41
MVE 440/2E-23A0-M	G	23A0	8.74		2.17		Multiple Footprint			4	6.46	5.51	0.98	3.23	4.57	6.26	4.33
							2.44-2.91	4.17	0.35								
							2.56	5.51	0.51								
							4.53	5.31	0.43								
							5.31	4.53	0.43								
MVE 690/2E-30A0-M	C1	30A0	10.00		1.65		Multiple Footprint			4	6.06	6.81	0.59	3.11	5.91	6.54	5.28
							3.15	4.33	0.43								
							3.54	4.92	0.51								
							4.88	4.33	0.43								
							5.31	4.53	0.43								

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Class II Div.2 Group F, G T4
» Conform to UL 1004-1,UL 1004-3, UL60079-31, UL60079-0, CSA 60079-0, CSA 60079- 31, CSA 22.2 N°100, CSA 22.2 N°77

MVE-MICRO - 2 poles electric vibrators

The MVE-MICRO external electric vibrators are characterized by their small size and consist of an electric motor housed in a robust aluminium body, with eccentric weights mounted on both ends of the shaft.
They fit into small vibrating equipment or hopper though ensuring a significant centrifugal force.

Class II Div.2: Temp. Class **T4**
II 3D Temp. Class: ● 100 °C
* Terminal Connections: **Y** High Voltage

THREE-PHASE

Unbalance (inlb)		Model	Centrifugal Force (lb)		Weight (lb)		ELECTRICAL SPECIFICATIONS						
							Input Power (Hp)		Nominal Current A max			* Terminal Connections	Cable Gland
50Hz	60Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz (230V)	50Hz (400V)	60Hz (460V)		Metric
0.17		MVE 21/36E-MICRO	44	64	4		0.05	0.05	0.21	0.12	0.12	Y	M16 ●
0.39		MVE41/36E-MICRO	99	143	5		0.08	0.08	0.30	0.18	0.18	Y	M16 ●

SINGLE-PHASE

Unbalance (inlb)		Model	Centrifugal Force (lb)		Weight (lb)		ELECTRICAL SPECIFICATIONS				
							Input Power (Hp)		Nominal Current A max		Cable Gland *
50Hz	60Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz (230V)	60Hz (115V)	Metric
0.03		MVE 3/36E-MICRO-M	9	13	3		0.04	0.05	0.30	0.80	M16 ●
0.05		MVE 6/36E-MICRO-M	13	20	3		0.04	0.05	0.30	0.80	M16 ●
0.17		MVE 21/36E-MICRO-M	44	64	4		0.05	0.09	0.20	0.80	M16 ●
0.39		MVE 41/36E-MICRO-M	99	143	5		0.07	0.09	0.25	0.80	M16 ●

MVE-MICRO - 2 POLES ELECTRIC VIBRATORS - THREE PHASE / SINGLE PHASE

APPLICATION	Small hopper - micro screen - chute - vibrating feeder table and channels - compaction tables
POWDER	Fine - dry
PROBLEM SOLVING	Bridge and rat-holing

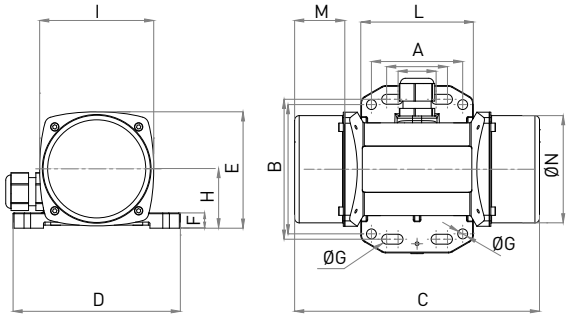
FEATURES

DUTY CYCLE	Continuous - S1
ENVIRONMENT TEMPERATURE	From -20 °C to 40 °C (from -4 °F to 104 °F) From -20 °C to 55 °C (from -4 °F to 131 °F)
MAX NOISE LEVEL	76 dB(A)
ATEX	II2D Ex tb IIIC Tx Db IP66
MATERIAL	Body aluminium - stainless steel cover
CAPACITOR	Included (on 1ph models)

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

- II2D Ex tb IIIC Tx Db IP66
- Equipment and protective system intended for use in potentially explosive atmospheres (Zone 21) - Directive 2014/34/UE
- Compliance with Essential Health and Safety Requirements
- IEC 60034-1, IEC EN 60079-0, IEC EN 60079-31

F



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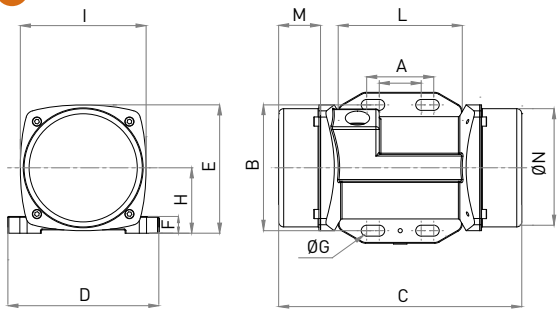


THREE-PHASE

Model	Drawing	DIMENSIONAL SPECIFICATIONS (inches)												
		C	M	A	B	Ø G	Holes	D	E	F	H	I	L	N
60Hz		60Hz	60Hz				N°							
MVE 21/36E-MICRO	F	5.71	0.98	Multiple Footprint: 0.98-1.57 / 2.36	3.62 / 3.35	0.26 / 0.26	4	4.33	3.01	0.39	1.54	2.95	2.91	2.78
MVE41/36E-MICRO	F	6.34	1.30	Multiple Footprint: 0.98-1.60 / 2.36	3.62 / 3.35	0.26 / 0.26	4	4.33	3.01	0.39	1.54	2.95	2.91	2.78

SINGLE-PHASE

Model	Drawing	DIMENSIONAL SPECIFICATIONS (inches)												
		C	M	A	B	Ø G	Holes	D	E	F	H	I	L	N
60Hz		60Hz	60Hz				N°							
MVE 3/36E-MICRO-M	F	5.71	0.98	Multiple Footprint: 0.98-1.57 / 2.36	3.62 / 3.35	0.26 / 0.26	4	4.33	3.01	0.39	1.54	2.95	2.91	2.78
MVE 6/36E-MICRO-M	F	5.71	0.98	Multiple Footprint: 0.98-1.57 / -	2.95 / -	0.26 / -	4	3.54	3.01	0.39	1.54	2.95	2.91	2.78
MVE 21/36E-MICRO-M	F	5.71	0.98	Multiple Footprint: 0.98-1.57 / 2.36	3.62 / 3.35	0.26 / 0.26	4	4.33	3.01	0.39	1.54	2.95	2.91	2.78
MVE 41/36E-MICRO-M	F	6.34	1.30	Multiple Footprint: 0.98-1.57 / 2.36	3.62 / 3.35	0.26 / 0.26	4	4.33	3.01	0.39	1.54	2.95	2.91	2.78

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Class II Div.2 Group F, G T4
» Conform to UL 1004-1,UL 1004-3, UL60079-31, UL60079-0, CSA 60079-0, CSA 60079- 31, CSA 22.2 N°100, CSA 22.2 N°77

MVO – Hydraulic vibrators

The MVO vibrator generates a high frequency rotational vibration thanks to the hydraulic system that activates an eccentric mass.

They are very resistant and easy to install. They do not require any electrical or pneumatic connection but only hydraulic.

MVO - HYDRAULIC VIBRATORS

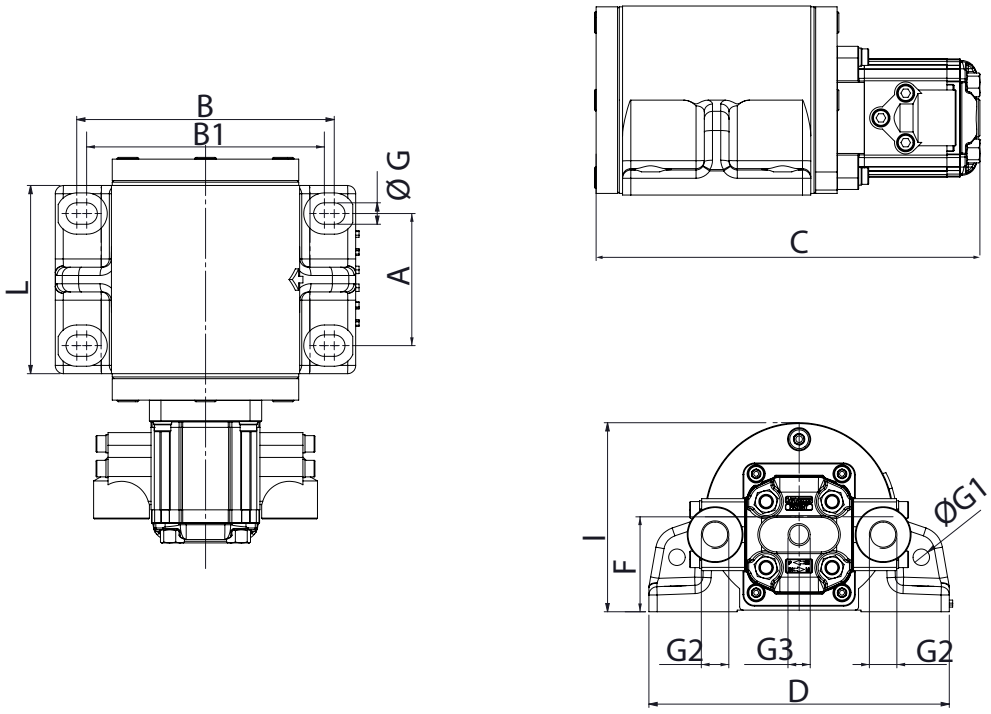
APPLICATION	Dump trailer - agriculture machine - digging bucket
POWDER	Hygroscopic - wet sticky and granular
PROBLEM SOLVING	Detaching

FEATURES

DUTY CYCLE	Continuous - S1
WORKING PRESSURE	From 15 bar to 300 bar (from 217 psi to 4.350 psi)
HYDRAULIC CIRCUIT	Flow control valve + filter (mesh 30-60 micron)
ENGINE SIZE	3.12 Cm^3/round
WORKING TEMPERATURE	From -20 °C to 60 °C (from -4 °F to 140 °F)
OIL VISCOSITY	From 20 mm^2/sec to 100 mm^2/sec
OIL TYPE	HLP HV (D in 51524) hydraulic mineral oil
FLOW RATE	2,24 l/min (700 rpm) - 9,6 l/min (3.000 rpm) - 19,2 l/min (6.000 rpm)
MAX NOISE LEVEL	80 dB(a)
MOTOR TYPE	Xv-1m/3.2
TECHNOLOGY	Hydraulic rotary vibrator
MATERIAL	Grey cast iron body (ral 2004 powder painted)

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive



DIMENSIONAL SPECIFICATIONS																							
A		B		B1		C		D		L		F		G		G1		G2	G3	I		Weight	
mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	BSPP	BSPP	mm	in	kg	lb
80	3.2	156	6.1	144	5.7	233	9.2	182	7.2	115	4.5	58	2.3	13	0.5	10	0.4	3/8''	1/4''	114.5	4.50	11	24

	MECHANICAL FEATURES									
Model	Centrifugal Force				Working Moment		Static Moment		Operating Press.	Max Pressure
	3000 rpm		6000 rpm		kgcm	inlb	kgcm	inlb	bar	bar
	kg	lb	kg	lb					3000 rpm	6000 rpm
MVO 850	208	459	830	1830	4.12	3.57	2.06	1.78	70	120

BEARING LIFE			
RPM	Centrifugal Force		Bearing Life
	kg	lb	hrs
3000	208	459	> 10,000
6000	830	1830	6,826

NOTE: Dimensions with coarse degree of accuracy related to UNI 22768/1

» Conformity with European Directive

Notes:

Notes:

WHEN YOU NEED IT, WHERE YOU NEED IT.

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