



MAGNETIC VIBRATORS

Maximum Power
Minimum Space



AVITEQ VIBRATION TECHNOLOGY

We drive your success

For more than 85 years, AViTEQ Vibrationstechnik GmbH have provided oscillating conveyor solutions to almost 375,000 projects. Our extensive experience and vibrating conveyor expertise is evident with our 120 AViTEQ employees worldwide, who are always available to support our international client base.

Unshakeable Quality

AViTEQ systems and components feature comprehensive functionality including: conveying, sorting, dosing, screening, classifying and dewatering, compacting and loosening, cooling and heating of various bulk materials. We provide extremely varied solutions and can apply these to many different materials, from small pills and coffee beans, to rocks and metal pieces weighing tons.

Every bulk material has its own special requirements and AViTEQ have a vast array of experience, having designed systems and components for more than 1,000 different bulk materials to date. Endurance tests performed in our technical laboratories, and numerous finite element calculations, ensure the highest quality components and systems. Experience the unshakeable quality of AViTEQ.

AVITEQ

About us



120 employees worldwide



85 Years of experience



Expert advice for machine and motor design



large stock warehouse



International experiences

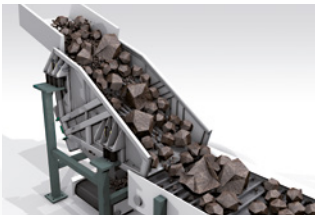
AVITEQ

Systems

AViTEQ plans and creates vibration and processing engineering solutions. A comprehensive all-round service is possible through AViTEQ and AEG.



Hopper Discharge Units



Vibrating Screens



Tubular feeders



Spiral Conveyors

AVITEQ

Components

AViTEQ develops, builds and distributes drive components and control systems for vibrating conveyor systems. We also offer 24-hour replacement part support from the spare part warehouse, as well as various repair services (in-house or on-site).



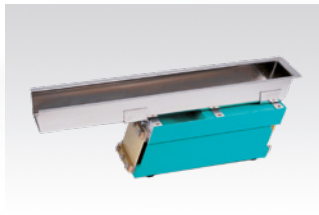
Magnetic vibrators



Unbalance motors



Parts conveyors



Small conveyors

Magnetic vibrators

If you value features like infinitely variable vibration amplitudes or direct power transmission without start and stop times, you won't want to part with your AViTEQ magnetic vibrators. So it's good that you won't have to – they have an impressive service life even with a very large number of operating cycles.

AVITEQ MAGNETIC VIBRATORS

Supreme Muscle Packs

AViTEQ magnetic vibrators run as if they are lubricated even though they work completely grease-free. That is partly what makes them so reliable: no bearings, extremely robust design, built-in thermal switch to prevent overheating, and screw-on cable connections – great ideas that combine to deliver supreme durability and reliability.

The equipment also includes clever details such as infinitely variable vibration amplitudes, instant power transmission or flexible adaptation of drives using weight plates. The collision protection (PAL) is an easy way to optimise performance and prevent outages – another standard feature that is only provided by other manufacturers as an optional extra. Compact and strong AViTEQ magnetic vibrators have real staying power. They won't run out of steam even after years of continuous duty. An honest hard-worker.

SUPPLEMENTARY WEIGHTS

Adapted to the weight of the working equipment.

- ADVANTAGES:
- drive replaceable at any time
 - adaptable to different working equipment
 - low storage and procurement costs

SPRING SET

Leaf springs with special surface treatment for long service life and linear vibration characteristics.

- ADVANTAGES: :
- wear-free
 - low maintenance costs
 - continuous operation at 100% power

TECHNICAL CHARACTERISTICS

Vibration frequency: 25, 33, 50, 100 Hz in 50 Hz mains
30, 40, 60, 120 Hz in 60 Hz mains

Capacity: from a few kg/h to more than a thousand t/h

Working weight: 6 – 3.000 kg

Mains frequency: alternating current (50 or 60 Hz)

Mains voltage: 230, 400, 500 V / 220, 380, 440, 480 V
(special voltages available on request)

Ambient temperature: -20 °C to + 40 °C (lower and higher temperatures possible)

Protection MV*: IP55 to DIN EN 60529

Protection magnetic core*: IP65 to DIN EN60529

Optional: tropic-proof insulation, special coating, external ventilation, thermal switch (on request)

* different protection with different types of magnetic vibrator

OUR SAFETY STANDARDS



INTERNAL VIBRATION SENSOR (PAL)

Performance optimisation up to the limit range (P in the type designation).

- ADVANTAGES:
- outage protection
 - performance monitoring

HOUSING

Multi-ribbed casing for high stresses.

- ADVANTAGES:
- can be installed in any position
 - reliable in operation
 - long service life

ELECTROMAGNET

Core and winding cast in epoxy resin.

- ADVANTAGES:
- reliable in operation in harsh environments
 - available for potentially explosive areas
 - unaffected by moisture and dust

COVER

Glass fibre reinforced plastic.

- ADVANTAGES::
- reliable in operation
 - safe handling
 - low weight
 - fast installation
 - effective touch protection

OVER TEMPERATURE PROTECTION

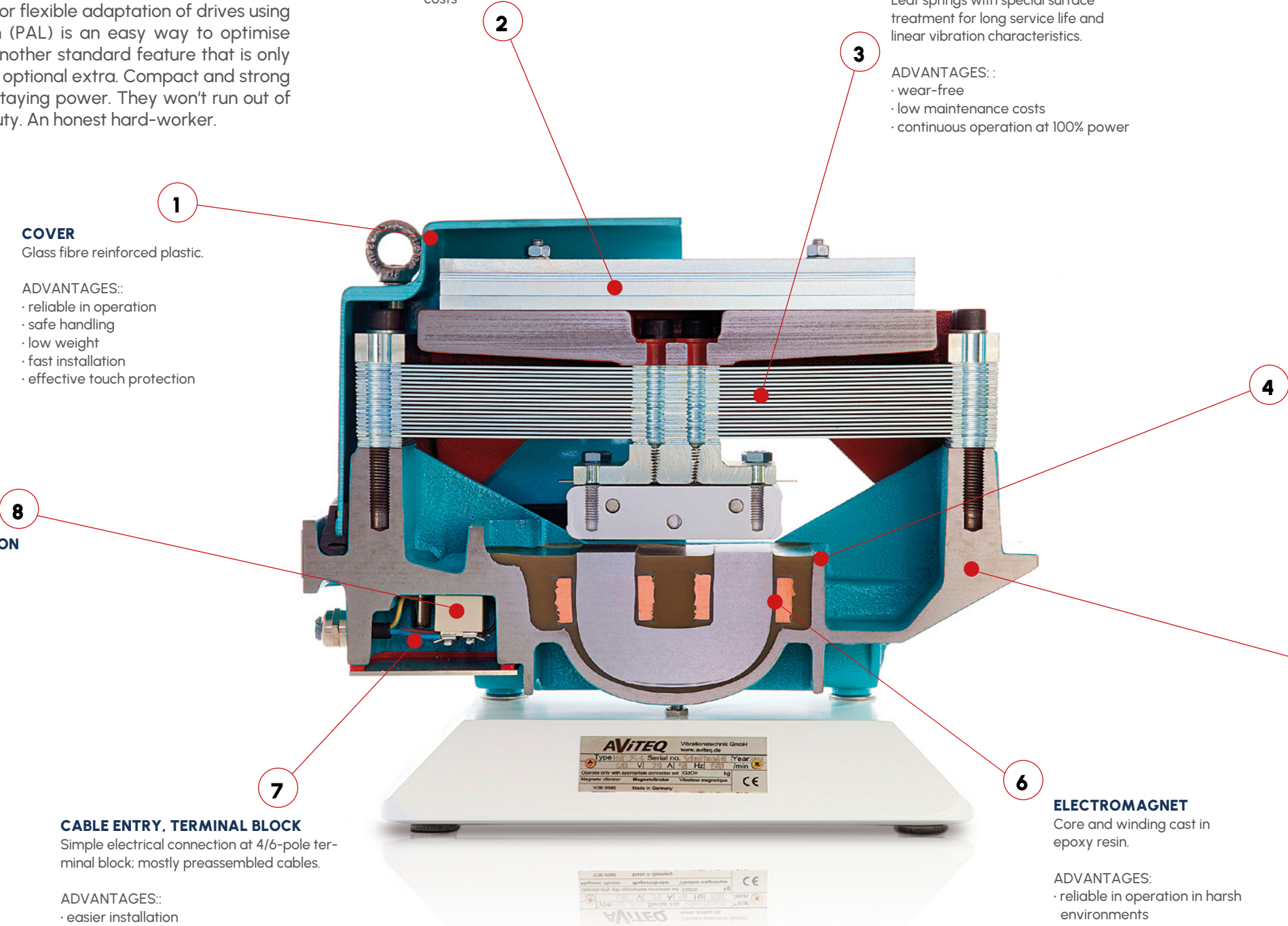
Protection against excessive temperatures in vibrators (S in type designation).

- ADVANTAGE:
- protection for drive

CABLE ENTRY, TERMINAL BLOCK

Simple electrical connection at 4/6-pole terminal block; mostly preassembled cables.

- ADVANTAGES::
- easier installation
 - reliable in operation
 - securely attached
 - voltages up to 1,000 V without additional insulation



DESIGN AND CHOICE OF MOTOR

THREE STEPS TO THE RIGHT MAGNETIC VIBRATOR

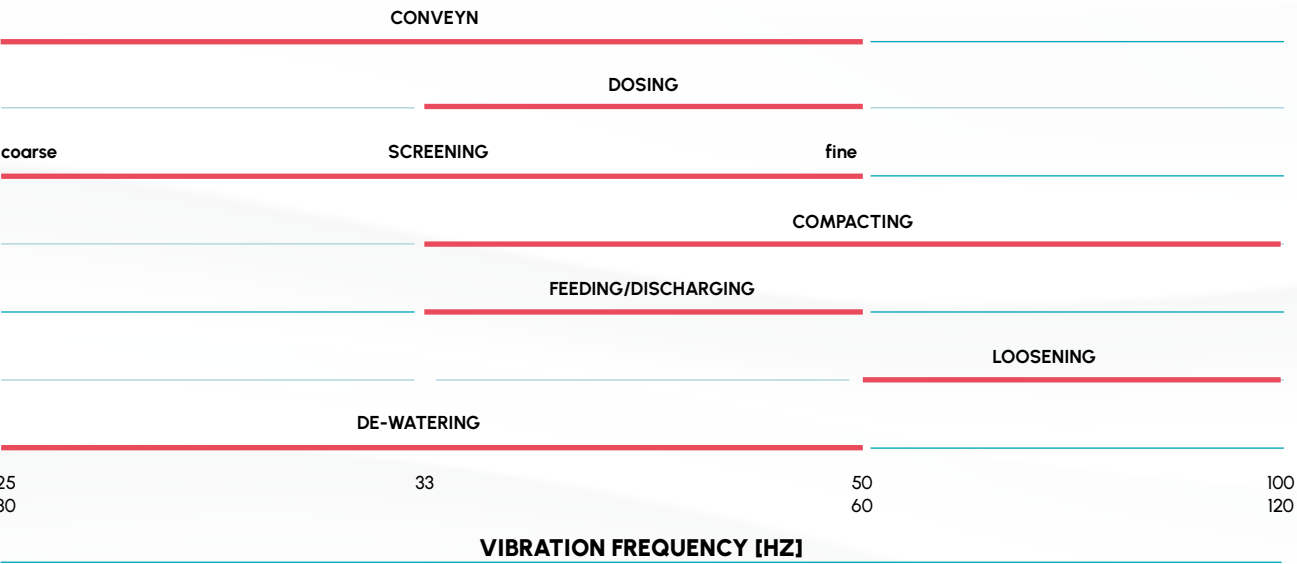
Selection

- 1. Determine your application and the mains frequency, and obtain the vibration frequency from the bar chart.
- 2. In the case of drives for vibrating equipment (trough conveyors, tubular conveyors, screens, de-watering devices, helical conveyors, vibrating tables, etc.), selection is primarily based on the „working weight“. The starting point is the weight of the vibrating conveyor without the magnetic vibrator and disregarding the goods on the conveyor. In the case of bunker vibrators (external vibrators, silos, bunkers, hoppers, shake-out grids, fall pipes, filters and filling machines), we recommend that AViTEQ selects the best magnetic vibrator/impact vibrator for you.
- 3. Use the vibration frequency, the mains voltage and the working weight range or working weight to select the right magnetic vibrator type from the graphs below.

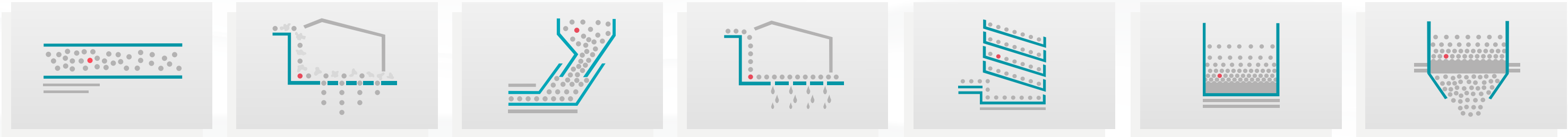
You also have the option of selecting your suitable operator in our configurator. You can find this on our website at www.aviteq.com.

There is a lot of technical information available, but it is always best to get AViTEQ's help with selection. Choosing the best magnetic vibrator depends on many different factors. And that is a job for experts.

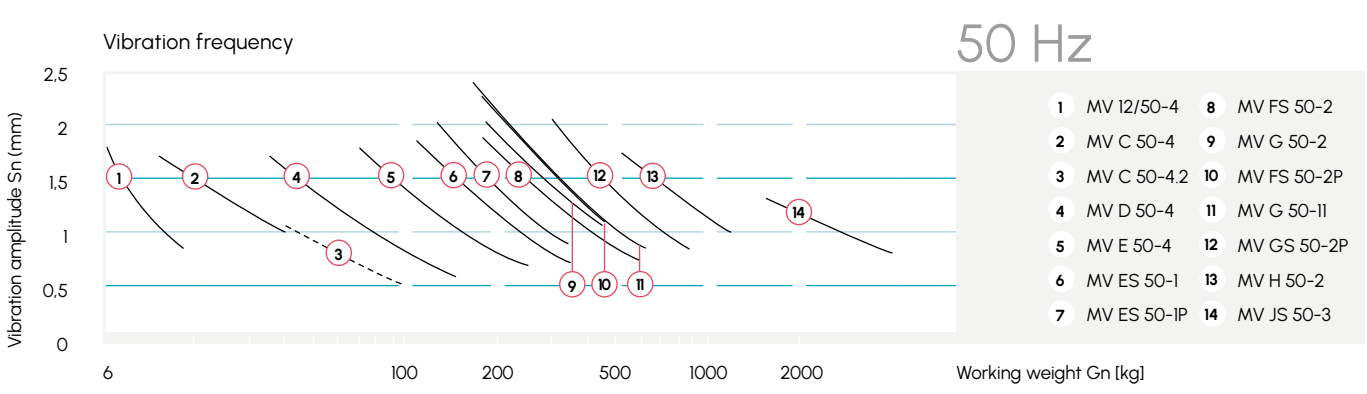
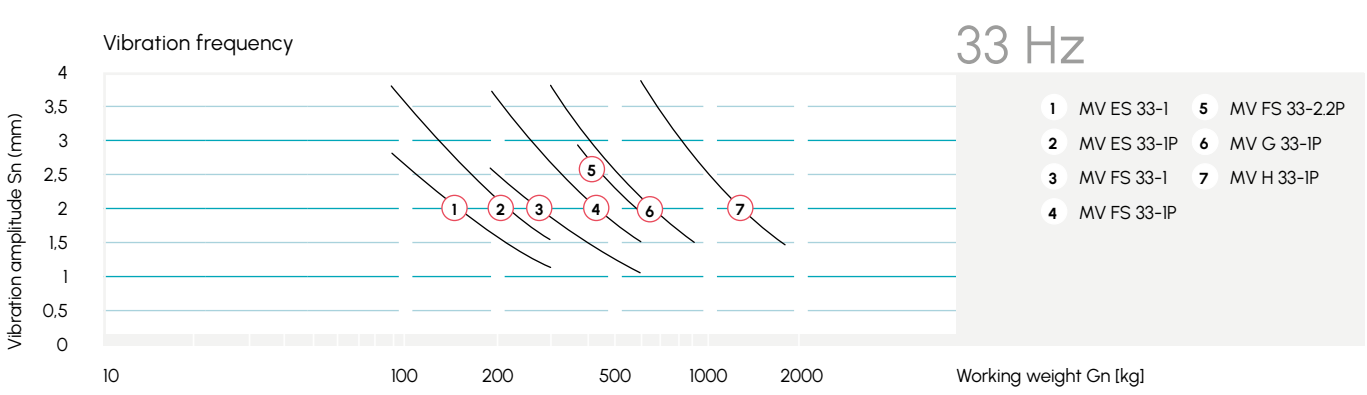
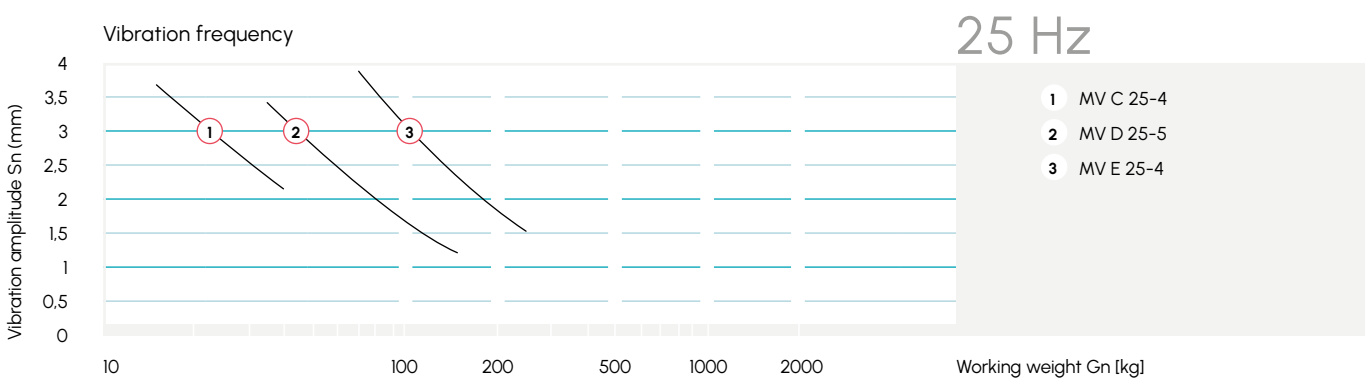
Step one: Your application



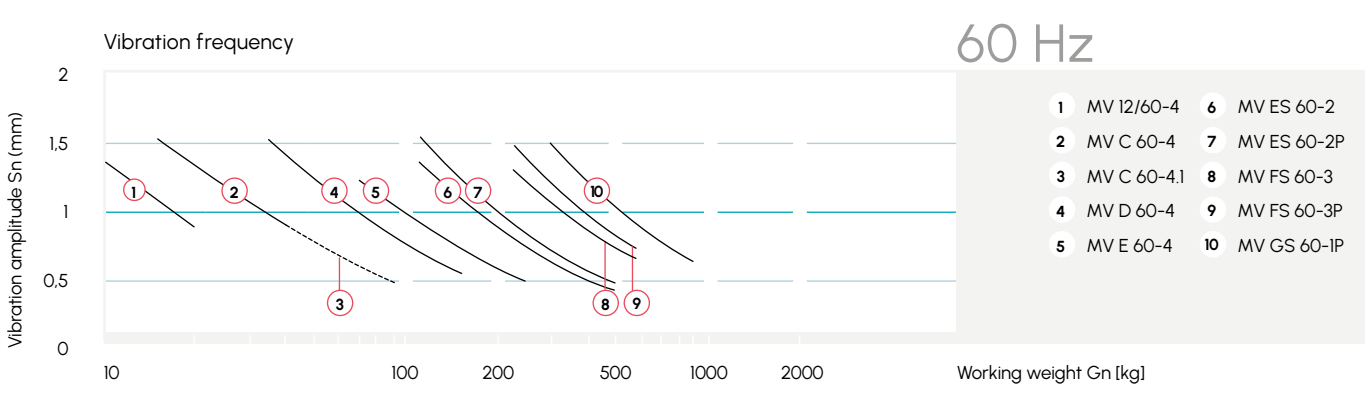
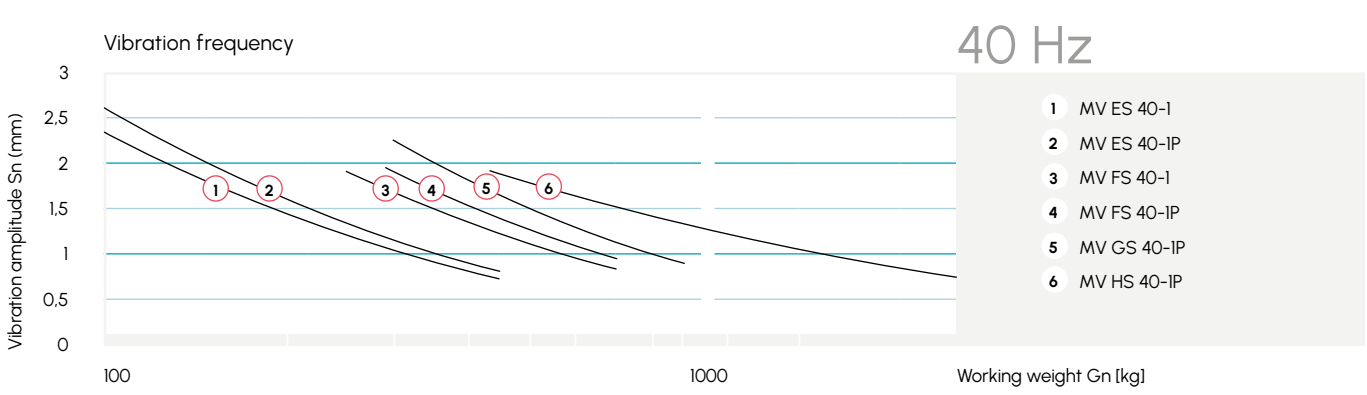
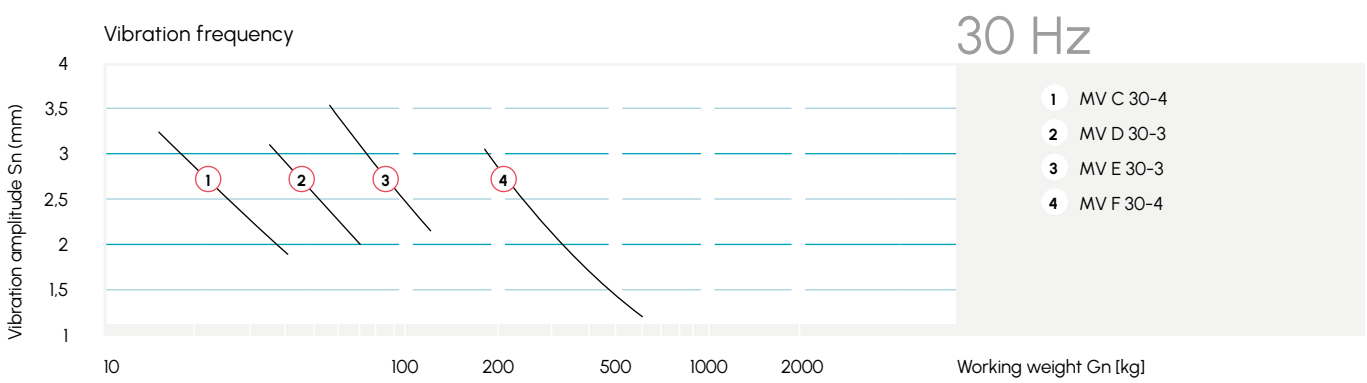
The vibration amplitudes suitable for the different application and the resulting material flow depend on the vibration amplitudes in the particular network.



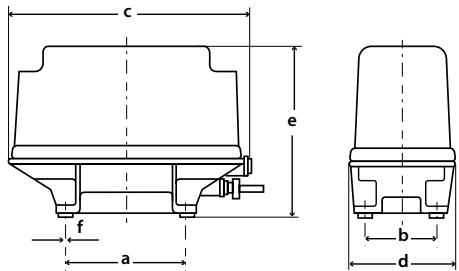
Performance graphs for magnetic vibrators in a **50 Hz** mains



Performance graphs for magnetic vibrators in a **60 Hz** mains



Magnetic vibratores in a 50 Hz mains



Vibration frequency 25 Hz

Type	Mains voltage (controller input) (+/-10%)	Protection to EN 60529	Working weight range [kg]		Vibration amplitude ¹⁾ [mm]		Transport velocity ¹⁾⁺²⁾ [cm/s]		Rated current	Active power ³⁾	PAL ⁴⁾	Possible controller	Weight [kg]	Dimensions [mm]						
	[V]		from	to	from	to	from	to	[A]	[W]			[kg]	a	b	c	d	e	Øf	Screws
MVC25-4	220 - 240	IP 55	14	40	3,65	2,15	18	8	4,80	40	-	A,B	42	210	125	422	180	283	11,5	M10
	380 - 420	IP 55	14	40	3,65	2,15	18	8	2,90	40	-	B	42	210	125	422	180	283	11,5	M10
	480 - 520	IP 55	14	40	3,65	2,15	18	8	2,20	40	-	B	42	210	125	422	180	283	11,5	M10
MVD25-5	220 - 240	IP 55	35	150	3,40	1,20	16	3	8,00	50	-	A,B	61	210	125	454	216	332	11,5	M10
	380 - 420	IP 55	35	150	3,40	1,20	16	3	4,80	50	-	B	61	210	125	454	216	332	11,5	M10
	480 - 520	IP 55	35	150	3,40	1,20	16	3	3,80	50	-	B	61	210	125	454	216	332	11,5	M10
MVE25-4	220 - 240	IP 55	70	250	3,80	1,50	19	4	14,00	100	-	B	110	300	190	485	255	425	18,0	M16
	380 - 420	IP 55	70	250	3,80	1,50	19	4	8,00	100	-	B	110	300	190	485	225	425	18,0	M16
	480 - 520	IP 55	70	250	3,80	1,50	19	4	6,10	100	-	B	110	300	190	485	255	425	18,0	M16

Vibration frequency 33 Hz

MVES33-1	220 - 240	IP 55	90	300	2,80	1,15	20	4	17,0	150	-	C	125	300	190	540	255	425	18,0	M16
	380 - 420	IP 55	90	300	2,80	1,15	20	4	10,0	150	-	B	125	300	190	540	255	425	18,0	M16
	480 - 520	IP 55	90	300	2,80	1,15	20	4	10,0	150	-	B	125	300	190	540	255	425	18,0	M16
MVES33-IP	220 - 240	IP 55	90	300	3,80	1,55	29	7	17,0	150	+	C	125	300	190	540	255	425	18,0	M16
	380 - 420	IP 55	90	300	3,80	1,55	29	7	10,0	150	+	B	125	300	190	540	255	425	18,0	M16
	480 - 520	IP 55	90	300	3,80	1,55	29	7	10,0	150	+	B	125	300	190	540	255	425	18,0	M16
MVFS33-1	380 - 420	IP 55	190	600	2,60	1,05	18	3	15,0	250	-	B	250	350	240	640	340	545	22,0	M20
	480 - 520	IP 55	190	600	2,60	1,05	18	3	15,0	250	-	B	250	350	240	640	340	545	22,0	M20
MVFS33-IP	380 - 420	IP 55	190	600	3,70	1,50	28	7	15,0	250	+	B	250	350	240	640	340	545	22,0	M20
	480 - 520	IP 55	190	600	3,70	1,50	28	7	15,0	250	+	B	250	350	240	640	340	545	22,0	M20
MVFS33-2.2P	380 - 420	IP 55	400	700	2,90	1,80	20	9	15,0	250	+	B	300	350	240	640	340	545	22,0	M20
	480 - 520	IP 55	400	700	2,90	1,80	20	9	15,0	250	+	B	300	350	240	640	340	545	22,0	M20
MVG33-IP	380 - 420	IP 55	300	900	3,80	1,50	29	7	21,0	300	+	C	335	500	280	860	360	690	27,0	M24
	480 - 520	IP 55	300	900	3,80	1,50	29	7	17,0	300	+	C	335	500	280	860	360	690	27,0	M24
MVH33-IP	380 - 420	IP 55	600	1800	3,80	1,50	29	7	37,5	900	+	D	675	420	420	901	665	710	33,0	M30
	480 - 520	IP 55	600	1800	3,80	1,50	29	7	30,0	900	+	D	675	420	420	901	665	710	33,0	M30

1)+2): the transport velocity values relate to a minimum acceleration of about 1.8 g and a maximum acceleration of about 9 g (1 g = 9.81 m/s²).

1) For operation with an AVITEQ controller.

2) Theoretical transport velocity related to a defined reference bulk material (sand) with the following parameters: material density 1.6 t/m3, grain size 3-10 mm, 8% product moisture with approximately cubic grains, 200 mm layer height, without bunker pressure, with horizontal equipment installation.

3) The specified active power refers to vibrating conveyors without the influence of the transported goods.

The active power may increase by a factor of 5 depending on the type and amount of the load.

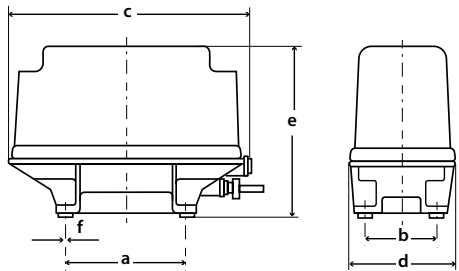
4) PAL is a sensor integrated into the magnetic vibrator; together with an appropriate controller, it forms a closed-loop control circuit for the overall vibration amplitude, enabling performance optimisation.

All magnetic vibrators are sprayed in the standard colour RAL 5018.

+ PAL integrated
- PAL not integrated

A: Controller SDE06/...-2
B: Controller SDE15/...-2
C: Controller SDE25/...-2
D: Controllerg SDE50/...-2

Magnetic vibratores in a 50 Hz mains



Vibration frequency 50 Hz

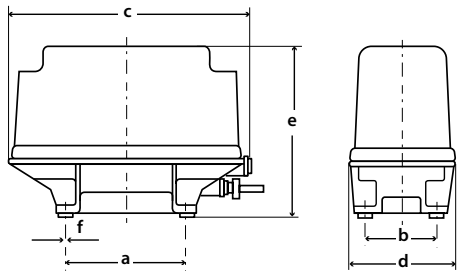
Type	Mains voltage (controller input) (+/-10%)	Protection to EN 60529	Working weight range [kg]		Vibration amplitude ¹⁾ [mm]		Transport velocity ¹⁾⁺²⁾ [cm/s]		Rated current	Active power ³⁾	PAL ⁴⁾	Possible controller	Weight [kg]	Dimensions [mm]						
	[V]		from	to	from	to	from	to	[A]	[W]				a	b	c	d	e	Øf	Screws
MV12/50-4	220 - 240	IP 55	9	24	1,66	0,88	19	8	2,4	40	-	A,B	18	210	125	300	200	225	11,5	M10
	380 - 420	IP 55	9	24	1,66	0,88	19	8	1,4	40	-	A,B	18	210	125	300	200	225	11,5	M10
	480 - 520	IP 55	9	24	1,66	0,88	19	8	1,1	40	-	A,B	18	210	125	300	200	225	11,5	M10
MVC50-4	220 - 240	IP 55	15	40	1,70	1,00	19	10	3,5	40	-	A,B	39	210	125	420	180	280	11,5	M10
	380 - 420	IP 55	15	40	1,70	1,00	19	10	2,1	40	-	B	39	210	125	420	180	280	11,5	M10
	480 - 520	IP 55	15	40	1,70	1,00	19	10	1,6	40	-	B	39	210	125	420	180	280	11,5	M10
MVC50-4.2	220 - 240	IP 55	40	100	1,10	0,55	12	3	3,5	40	-	A,B	42	210	125	420	180	280	11,5	M10
	380 - 420	IP 55	40	100	1,10	0,55	12	3	2,1	40	-	B	42	210	125	420	180	280	11,5	M10
	480 - 520	IP 55	40	100	1,10	0,55	12	3	1,6	40	-	B	42	210	125	420	180	280	11,5	M10
MVD50-4	220 - 240	IP 55	35	150	1,70	0,60	19	3	6,8	50	-	B	63	210	125	450	220	335	11,5	M10
	380 - 420	IP 55	35	150	1,70	0,60	19	3	4,0	50	-	B	63	210	125	450	220	335	11,5	M10
	480 - 520	IP 55	35	150	1,70	0,60	19	3	2,9	50	-	B	63	210	125	450	220	335	11,5	M10
MVE50-4	220 - 240	IP 55	70	250	1,75	0,70	20	5	12,7	100	-	B	99	300	190	485	255	425	18,0	M16
	380 - 420	IP 55	70	250	1,75	0,70	20	5	6,8	100	-	B	99	300	190	485	255	425	18,0	M16
	480 - 520	IP 55	70	250	1,75	0,70	20	5	5,3	100	-	B	99	300	190	485	255	425	18,0	M16
MVES50-1	220 - 240	IP 55	100	350	1,95	0,75	20	6	18,0	150	-	C	125	300	190	540	255	425	18,0	M16
	380 - 420	IP 55	100	350	1,95	0,75	20	6	11,0	150	-	B	125	300	190	540	255	425	18,0	M16
	480 - 520	IP 55	100	350	1,95	0,75	20	6	11,0	150	-	B	125	300	190	540	255	425	18,0	M16
MVES50-1P	220 - 240	IP 55	125	350	2,05	0,90	20	8	18,0	150	+	C	125	300	190	540	255	425	18,0	M16
	380 - 420	IP 55	125	350	2,05	0,90	20	8	11,0	150	+	B	125	300	190	540	255	425	18,0	M16
	480 - 520	IP 55	125	350	2,05	0,90	20	8	11,0	150	+	B	125	300	190	540	255	425	18,0	M16
MVFS50-2	380 - 420	IP 55	180	600	1,9	0,75	20	6	16,0	250	-	C	250	350	240	640	340	545	22,0	M20
	480 - 520	IP 55	180	600	1,90	0,75	20	6	16,0	250	-	C	250	350	240	640	340	545	22,0	M20
MVFS50-2P	380 - 420	IP 55	180	600	2,25	0,90	20	8	16,0	250	+	C	250	350	240	640	340	545	22,0	M20
	480 - 520	IP 55	180	600	2,25	0,90	20	8	16,0	250	+	C	250	350	240	640	340	545	22,0	M20
MVG50-2	380 - 420	IP 55	180	450	2,05	1,05	20	11	21,0	300	-	C	310	500	280	925	340	550	27,0	M24
	480 - 520	IP 55	180	450	2,05	1,05	20	11	16,0	300	-	C	310	500	280	925	340	550	27,0	M24
MVG50-11	380 - 420	IP 25	165	450	2,35	1,10	20	12	21,0	300	-	C	270	500	280	855	353	520	27,0	M24
	480 - 520	IP 25	165	450	2,35	1,10	20	12	16,0	300	-	C	270	500	280	855	353	520	27,0	M24
MVG50-2P	380 - 420	IP 55	300	900	2,05	0,85	20	7	18,5	300	+	C	395	500	280	860	395	680	27,0	M24
	480 - 520	IP 55	300	900	2,05	0,85	20	7	16,0	300	+	C	395	500	280	860	395	680	27,0	M24
MVH50-2	380 - 420	IP 55	520	1200	1,78	1,00	20	10	41,0	900	-	D	750	420	420	1000	570	665	33,0	M30
	480 - 520	IP 55	520	1200	1,78	1,00	20	10	32,0	900	-	D	750	420	420	1000	570	665	33,0	M30
MVJS50-3	380 - 420	IP 55	1600	3000	1,35	0,84	15	7	62,0	1800	-	2xD	1600	890	500	1640	660	875	39,0	M36

Legend: see pages 10/III

Magnetic vibratores in a 50 Hz mains

Vibration frequency 100 Hz

Type	Mains voltage (controller input) (+/-10%)	Protection to EN 60529	Working weight range [kg]		Vibration amplitude ¹⁾ [mm]		Transport velocity ¹⁾⁺²⁾ [cm/s]		Rated current	Active power ³⁾	PAL ⁴⁾	Possible controller	Weight [kg]	Dimensions [mm]						
	[V]		from	to	from	to	from	to	[A]	[W]				a	b	c	d	e	Øf	Screws
MVC100-4	220 - 240	IP 55	18,0	40	0,62	0,40	12	8	3,8	40	-	A,B	46	210	125	420	180	280	11,5	M10



Magnetic vibrators in Ex design (Directive 2014/34/EU (ATEX)) 25 Hz

eMVC25-4-01*	220 - 240	IP65	15	40	3,65	2,15	18	8	4,8	80	-	A,B	42	210	125	420	180	285	11,5	M10
	380 - 420	IP65	15	40	3,65	2,15	18	8	2,9	80	-	A,B	42	210	125	420	180	285	11,5	M10
eMVD25-4-01*	220 - 240	IP65	35	150	3,40	1,20	16	3	8,0	110	-	B	62	210	125	445	215	285	11,5	M10
	380 - 420	IP65	35	150	3,40	1,20	16	3	4,8	110	-	B	62	210	125	445	215	285	11,5	M10
eMVE25-4-01*	380 - 420	IP65	70	250	3,80	1,50	19	4	7,5	170	-	B	110	300	190	485	255	425	18,0	M16
	480 - 520	IP65	70	250	3,80	1,50	19	4	5,60	170	-	B	110	300	190	485	255	425	18,0	M16

Magnetic vibrators in Ex design (Directive 2014/34/EU (ATEX)) 50 Hz

eMVC50-4-01*	220 - 240	IP65	15	40	1,68	1,00	19	10	3,5	80	-	A,B	40	210	125	420	180	285	11,5	M10
	380 - 420	IP65	15	40	1,68	1,00	19	10	2,1	80	-	B	40	210	125	420	180	285	11,5	M10
eMVC50-4.2-01*	220 - 240	IP65	40	100	1,08	0,55	11	3	3,5	80	-	A,B	42	210	125	420	180	285	11,5	M10
	380 - 420	IP65	40	100	1,08	0,55	11	3	2,1	80	-	B	42	210	125	420	180	285	11,5	M10
eMVD50-4-01*	220 - 240	IP65	35	150	1,70	0,60	19	3	6,8	110	-	B	64	210	125	445	215	285	11,5	M10
	380 - 420	IP65	35	150	1,70	0,60	19	3	4,0	110	-	B	64	210	125	445	215	285	11,5	M10
eMVE50-4-01*	220 - 240	IP65	70	250	1,68	0,68	19	5	12,2	170	-	B	100	300	190	485	255	425	18,0	M16
	380 - 420	IP65	70	250	1,68	0,68	19	5	6,2	170	-	B	100	300	190	485	255	425	18,0	M16
	480 - 520	IP65	70	250	1,68	0,68	19	5	5,0	170	-	B	100	300	190	485	255	425	18,0	M16

*Standard cable entry: M20 x 1.5 (special cable entry: ...-02: M25x1.5)

1)+2): the transport velocity values relate to a minimum acceleration of about 1.8 g and a maximum acceleration of about 9 g (1 g = 9.81 m/s²).

1) For operation with an AVITEQ controller.

2) Theoretical transport velocity related to a defined reference bulk material (sand) with the following parameters: material density 1.6 t/m3, grain size 3-10 mm, 8% product moisture with approximately cubic grains, 200 mm layer height, without bunker pressure, with horizontal equipment installation.

3) The specified active power refers to vibrating conveyors without the influence of the transported goods.

The active power may increase by a factor of 5 depending on the type and amount of the load.

4) PAL is a sensor integrated into the magnetic vibrator; together with an appropriate controller, it forms a closed-loop control circuit for the overall vibration amplitude, enabling performance optimisation.

All magnetic vibrators are sprayed in the standard colour RAL 5018.

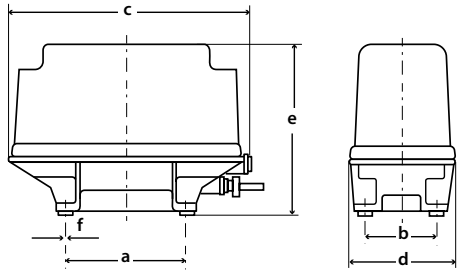
+ PAL integrated
- PAL not integrated

A: Controller SDE06/...-2
B: Controller SDE15/...-2
C: Controller SDE25/...-2
D: Controllerg SDE50/...-2

Magnetic vibratores in a 60 Hz mains

Vibration frequency 30 Hz

Type	Mains voltage (controller input) (+/-10%)	Protection to EN 60529	Working weight range [kg]		Vibration amplitude ¹⁾ [mm]		Transport velocity ¹⁾⁺²⁾ [cm/s]		Rated current	Active power ³⁾	PAL ⁴⁾	Possible controller	Weight [kg]	Dimensions [mm]						
	[V]		from	to	from	to	from	to	[A]	[W]			[kg]	a	b	c	d	e	Øf	Screws
MVC30-4	220 - 240	IP 55	15	40	3,25	1,90	22	9	4,8	40	-	A,B	40	210	125	420	180	280	11,5	M10
	440 - 480	IP 55	15	40	3,25	1,90	22	9	2,4	40	-	B	40	210	125	420	180	280	11,5	M10
MVD30-3	220 - 240	IP 55	36	70	3,05	2,00	20	10	8,0	50	-	B	64	210	125	450	220	335	11,5	M10
	380 - 420	IP 55	36	70	3,05	2,00	20	10	6,0	50	-	B	64	210	125	450	220	335	11,5	M10
	440 - 480	IP 55	36	70	3,05	2,00	20	10	4,4	50	-	B	64	210	125	450	220	335	11,5	M10
MVE30-3	220 - 240	IP 55	55	120	3,55	2,15	25	11	14,0	100	-	B	124	300	190	485	255	425	18,0	M16
	380 - 420	IP 55	55	120	3,55	2,15	25	11	8,0	100	-	B	124	300	190	485	255	425	18,0	M16
	440 - 480	IP 55	55	120	3,55	2,15	25	11	7,0	100	-	B	124	300	190	485	255	425	18,0	M16
MVF30-4	380 - 420	IP 55	180	600	3,05	1,20	20	4	18,0	250	-	C	250	350	240	640	340	545	22,0	M20
	440 - 480	IP 55	180	600	3,05	1,20	20	4	13,5	250	-	B	250	350	240	640	340	545	22,0	M20



Vibration frequency 40 Hz

MVES40-1	380 - 420	IP 55	100	450	2,40	0,75	22	3	12,7	150	-	B	125	300	190	540	255	425	18,0	M16
	440 - 480	IP 55	100	450	2,40	0,75	22	3	10,0	150	-	B	125	300	190	540	255	425	18,0	M16
MVES40-1P	380 - 420	IP 55	100	450	2,65	0,80	24	3	12,7	150	+	B	125	300	190	540	255	425	18,0	M16
	440 - 480	IP 55	100	450	2,65	0,80	24	3	10,0	150	+	B	125	300	190	540	255	425	18,0	M16
MVFS40-1	380 - 420	IP 55	250	700	1,90	0,85	16	4	15,5	250	-	C	250	350	240	640	340	545	22,0	M20
	440 - 480	IP 55	250	700	1,90	0,85	16	4	13,5	250	-	B	250	350	240	640	340	545	22,0	M20
MVFS40-1P	380 - 420	IP 55	290	700	2,00	1,00	18	5	15,5	250	+	C	250	350	240	640	340	545	22,0	M20
	440 - 480	IP 55	290	700	2,00	1,00	18	5	13,5	250	+	B	250	350	240	640	340	545	22,0	M20
MVGS40-2P	440 - 480	IP 55	300	900	2,26	0,90	20	4	18,0	300	+	C	365	500	280	860	395	690	27,0	M24
MVHS40-1P	440 - 480	IP 55	600	1800	2,42	0,98	22	5	40,0	900	+	D	850	420	420	840	880	715	32,0	M30

1)+2): the transport velocity values relate to a minimum acceleration of about 1.8 g and a maximum acceleration of about 9 g (1 g = 9.81 m/s²).

1) For operation with an AVITEQ controller.

2) Theoretical transport velocity related to a defined reference bulk material (sand) with the following parameters: material density 1.6 t/m3, grain size 3-10 mm, 8% product moisture with approximately cubic grains, 200 mm layer height, without bunker pressure, with horizontal equipment installation.

3) The specified active power refers to vibrating conveyors without the influence of the transported goods.
The active power may increase by a factor of 5 depending on the type and amount of the load.

4) PAL is a sensor integrated into the magnetic vibrator; together with an appropriate controller, it forms a closed-loop control circuit for the overall vibration amplitude, enabling performance optimisation.

All magnetic vibrators are sprayed in the standard colour RAL 5018.

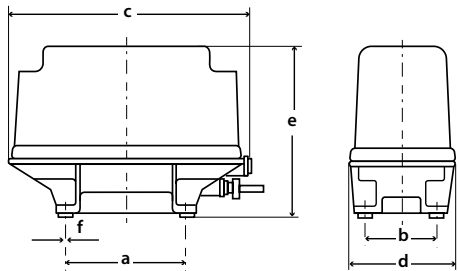
+ PAL integrated
- PAL not integrated

A: Controller SDE06/...-2
B: Controller SDE15/...-2
C: Controller SDE25/...-2
D: Controllerg SDE50/...-2

Magnetic vibratores in a 60 Hz mains

Vibration frequency 60 Hz

Type	Mains voltage (controller input) (+/-10%)	Protection to EN 60529	Working weight range [kg]		Vibration amplitude ¹⁾ [mm]		Transport velocity ¹⁾⁺²⁾ [cm/s]		Rated current	Active power ³⁾	PAL ⁴⁾	Possible controller	Weight [kg]	Dimensions [mm]						
	[V]		from	to	from	to	from	to	[A]	[W]			[kg]	a	b	c	d	e	Øf	Screws
MV12/60-4	220 - 240	IP 55	10	25	1,25	0,64	16	6,4	2,70	40	-	A,B	18	210	125	300	200	225	11,5	M10
MVC60-4	220 - 240	IP 55	15	40	1,55	0,90	16	11	3,8	40	-	A,B	41	210	125	420	180	280	11,5	M10
	380 - 420	IP 55	15	40	1,55	0,90	16	11	2,2	40	-	B	41	210	125	420	180	280	11,5	M10
	440 - 480	IP 55	15	40	1,55	0,90	16	11	1,9	40	-	B	41	210	125	420	180	280	11,5	M10
MVC60-4.1	220 - 240	IP 55	40	100	0,90	0,45	11	3	3,8	40	-	A,B	45	210	125	420	180	280	11,5	M10
	380 - 420	IP 55	40	100	0,90	0,45	11	3	2,2	40	-	B	45	210	125	420	180	280	11,5	M10
	440 - 480	IP 55	40	100	0,90	0,45	11	3	1,9	40	-	B	45	210	125	420	180	280	11,5	M10
MVD60-4	220 - 240	IP 55	35	150	1,55	0,55	16	4	6,8	50	-	B	60	210	125	450	220	335	11,5	M10
	380 - 420	IP 55	35	150	1,55	0,55	16	4	4,1	50	-	B	60	210	125	450	220	335	11,5	M10
	440 - 480	IP 55	35	150	1,55	0,55	16	4	4,0	50	-	B	60	210	125	450	220	335	11,5	M10
MVE60-4	220 - 240	IP 55	70	250	1,25	0,50	16	3	11,4	100	-	B	98	300	190	485	255	425	18,0	M16
	380 - 420	IP 55	70	250	1,25	0,50	16	3	6,8	100	-	B	98	300	190	485	255	425	18,0	M16
	440 - 480	IP 55	70	250	1,25	0,50	16	3	5,8	100	-	B	98	300	190	485	255	425	18,0	M16
MVES60-2	220 - 240	IP 55	110	500	1,38	0,40	16	2	18,0	150	-	C	125	300	190	540	255	425	18,0	M16
	380 - 420	IP 55	110	500	1,38	0,40	16	2	9,5	150	-	B	125	300	190	540	255	425	18,0	M16
	440 - 480	IP 55	110	500	1,38	0,40	16	2	8,0	150	-	B	125	300	190	540	255	425	18,0	M16
MVES60-2P	220 - 240	IP 55	110	500	1,57	0,47	16	3	18,0	150	+	C	125	300	190	540	255	425	18,0	M16
	380 - 420	IP 55	110	500	1,57	0,47	16	3	9,5	150	+	B	125	300	190	540	255	425	18,0	M16
	440 - 480	IP 55	110	500	1,57	0,47	16	3	8,0	150	+	B	125	300	190	540	255	425	18,0	M16
MVFS60-3	380 - 420	IP 55	210	600	1,36	0,60	16	5	13,5	250	-	B	250	350	240	640	340	545	22,0	M20
	440 - 480	IP 55	210	600	1,36	0,60	16	5	11,5	250	-	B	250	350	240	640	340	545	22,0	M20
MVFS60-3P	380 - 420	IP 55	220	600	1,48	0,68	16	5	13,5	250	+	B	250	350	240	640	340	545	22,0	M20
	440 - 480	IP 55	220	600	1,48	0,68	16	5	11,5	250	+	B	250	350	240	640	340	545	22,0	M20
MVGS60-IP	440 - 480	IP55	300	900	1,45	0,62	16	5	18,0	300	+	C	415	500	280	860	395	680	27,0	M24



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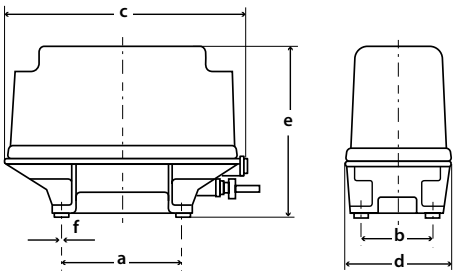
A: Controller SDE06/...-2
B: Controller SDE15/...-2
C: Controller SDE25/...-2
D: Controllerg SDE50/...-2

Magnetic vibratores in a 60 Hz mains

Magnetic vibrators in Ex design (Directive 2014/34/EU (ATEX)) 60 Hz

Type	Mains voltage (controller input) (+/-10%)	Protection to EN 60529	Working weight range [kg]		Vibration amplitude ¹⁾ [mm]		Transport velocity ¹⁾⁺²⁾ [cm/s]		Rated current	Active power ³⁾	PAL ⁴⁾	Possible controller	Weight [kg]	Dimensions [mm]						
	[V]		from	to	from	to	from	to	[A]	[W]				a	b	c	d	e	Øf	Screws
eMVC60-4-01*	220 - 240	IP65	15	40	1,48	0,85	16	10	3,8	80	-	A,B	42	210	125	420	180	285	11,5	M10
	440 - 480	IP65	15	40	1,48	0,85	16	10	1,8	80	-	B	42	210	125	420	180	285	11,5	M10

*Standard cable entry: M20x1.5 (special cable entry: ...-02: M25x1.5)



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B: Controller SDE15/...-2
C: Controller SDE25/...-2
D: Controllerg SDE50/...-2

FOR OUR LIGHTWEIGHTS

Controller up to 6A
and Gateway



SDE06/GW-2 SDE06/...-2

FOR OUR HEAVYWEIGHTS

Controller up to 15/25/50A



SDE15/...-2 SDE25/...-2 SDE50/...-2

	SDE06/...-2 SDE06/GW-2 (optional)	SDE15/...-2	SDE25/...-2	SDE50/...-2
Mains frequencies	50 Hz and 60 Hz			
Vibration frequencies with 50Hz mains	25, 33, 50 and 100 Hz			
Vibration frequencies with 60Hz mains	30, 40, 60 and 120 Hz			
Mains voltage	100-250V -	100-250V 380-600V	100-250V 380-600V	380-600V
Limit current, max	6A	15A	25A	50A
Setpoint specification	Poti, 0-10 VDC, 0-20 mA or 4-20 mA (switchable)			
Ambient temperature	built-in version -5 up to +45 °C			
Protection class	built-in version: IP 20 housing version: IP 55 on request			
Dimensions (W x H x D)	45x115.5x110 mm (GW: 22.5x115.5x110 mm)	75x244x194 mm	80x244x194 mm	141x250x194 mm
Weight	288 g (GW: 102 g)	2,2 kg	2,6 kg	4,2 kg
Betriebsarten	Single-mode operating modes (B x H x D): Voltage pre-control or vibration amplitude control Master-slave: Reverse or parallel mode			
Additional function	· adjustable soft start · With fill level control/exchange circuit			
Approvals/conformity	CE marking in accordance with Low Voltage Directive 2014/35/EU CSA/UL (in planning)			
Permissible tolerances	Mains voltage: +/-10.0% Mains frequency: +/-0.5%			
Connections (data)	· Analogue and digital · Ethernet (only in conjunction with gateway SDE06/GW-2) · USB-A for software & parameter update · Analogue and digital · Ethernet/LAN socket 100BaseT with Auto-MDI (RJ45 socket) · USB-A for software & parameter updates · ViCAN socket (2x)			

FOR OUR VERY FLEXIBLE LIGHTWEIGHTS

Frequency control up to 6A (optionally up to 10A)



SFA06/08-...-3

Energy efficient

Applicable worldwide

A few simple steps to commissioning:

1. Connect the SFAE06/08 control unit and attach the acceleration sensor. Plug in the connector for the acceleration sensor, mains and magnet.
2. Set the desired acceleration, e.g. via the quick selection button +
3. Start device 'RUN'

HIGHLIGHTS

- Very energy-efficient compared to the market alternatives
- Can be used worldwide: Multi-voltage input and independent of mains frequency
- Once mechanical basic tuning of the spring system has been completed, manual fine tuning is not necessary
- This means that other pots and troughs can be changed quickly without mechanical adjustment
- Spring breakage detection
- Operation via display and buttons or via PC (RS485 interface)
- Continuous readjustment of the optimum output frequency and voltage
- Adjustable overload protection for the solenoid coils
- Covers a wide range of desired functions thanks to individually assignable inputs and outputs
- Constant acceleration with mains voltage fluctuations
- Saving and importing parameter data via AVFI software

Additional options:
Master-slave operation, 10A version with heat sink,
Sensor made of Stainless Steel

PARAMETERS	VALUE
Mains voltage	100/240VAC +-10%
Oscillation frequency	5-300Hz
Limit current	6/10 AAC mit Zusatzkühlkörper
Output power	1200/2000VA
Inputs	5 (freely configurable: analogue or digital)
Outputs	4 (digital) x 24V + potential-free NO contact
Power supply for external consumers	24 V, 100 mA
Ambient temperature	0 up to +40°C
Storage temperature	-10 up to +80°C
Humidity	max. 80%, non-condensing
Fieldbus interfaces	on request: Profinet, Ethernet IP
Interface	optional RS485
Protection class	IP54

WE ARE THERE FOR YOU

Get in touch with us!



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