

M V C C



PRODUCT UPDATE 2008



The MVCC series of vibrators with direct current has been designed for use in those situations where network electricity is not present. In particular for hoppers, silos and gate-controls and roll-on roll-off vehicles (concrete mixers, pumps for concrete, plasterers, salt distributors, gravel spreader, fertiliser spreader, hauled silos, industrial sweeper filters).

The newly-conceived electric motor, with permanent magnet poles, and the increase in size of the electrical parts, allow constant, high yielding performance. The MF models have a multi-hole fixing base to adapt to different centre distances of drilling.



## Technical features

### Power supply

In direct current at 12 or 24V.

For detailed information contact our technical assistance office.

### Conformity with European Directives

Electromagnetic compatibility 2004/108/CE.

### Centrifugal force

Range extended up to 1.520 Kg<sub>f</sub>. (14,9 KN), with centrifugal force adjustable from 0 to 100%. Speed of 3000-3600 rpm.

### Reference Regulations

EN 60034-1

### Mechanical protection

IP 66 according to IEC 529, EN 60529.

### Functioning

Continual service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and our operating conditions.

### Shock-proof protection

IK 08 according to IEC 68, EN 50102.

### Environmental temperature

From -20°C to +40°C.

### Fixing of the vibrator

In all positions and therefore without restriction.

### Lubrication

Prelubricated bearings. They don't need further lubrication or maintenance (lubrication "FOR LIFE").

### Terminal box

Positioned under the vibrator, on the same side as the fixing base, which reduces the overall dimensions.

### Electric motor

Direct current with permanent magnet poles. The rotor is a wound brush-type with collector.

### Casing

In high-tensile aluminium alloy.

### Bearing flange

Constructed in aluminium with steel bearing seat. The geometry of the flange transmits the load to the casing uniformly.

### Motor shaft

In treated steel alloy (Isothermic hardening) resistant to stress.

### Eccentric weights

Enable continuous adjustment of the centrifugal force. This adjustment is facilitated by a graduated scale that expresses the maximum centrifugal force. A patented system (patent N°MO98A000194) called ARS prevents adjustment errors.

### Weight covers

In aluminium alloy for the types 3/100-MF, 3/200 MF, 3/500; in stainless steel AISI 304 for the types 3/1200 and 3/1500.

### Painting

Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 200°C. Tested in salt spray for 500 hours.

### Other features

All MVCC electric vibrators have been tested in semi-anechoic chamber to verify conformity with the standards and directives on electromagnetic compatibility. The MVCC series is supplied with a special high-resistance synthetic rubber power supply cable measuring 2.5 m.

## Certifications



Mechanical protection IP66 (EN 60529), shock-proof protection IK 08 (EN 50102)



Comply with the applicable European Union directives

Fig. A

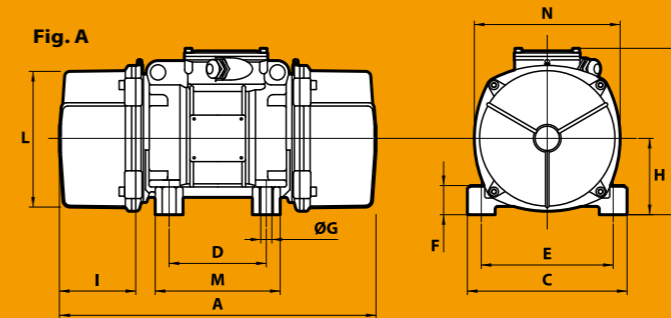
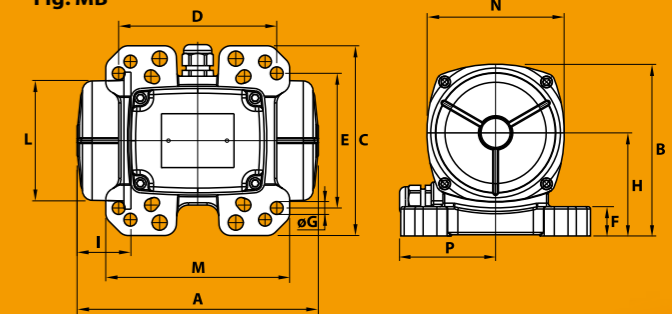


Fig. MB



	Description		Mechanical specifications				Electrical specifications			Dimensional specifications (mm)																
	Code	Type	rpm	Static moment* kgmm	Centrifugal force		Weight kg	Max input power W	Max. current A		Fig.	Multi-hole					Holes				Cable entry thread					
					kg	kN			12 V	24 V		A	B	C	D	E	øG	N°	F	H		I	L	M	N	P
three-phase	600411	MVCC 3/100-MF	3000	12.0	120	1.19	5.0	100	8.0	4.0	MB	206	146.5	162	65-74-80-115-135	140-106-110-135-115	13-9-11-11-11	4	25	88	46	103	157	117	82	M20x1.5
	600428	MVCC 3/200-MF	3000	21.0	211	2.07	6.0	190	16.0	8.0	MB	263	146.5	162	65-74-80-115	140-106-110-135	13-9-11-13	4	25	88	46	103	140	117	82	M20x1.5
	600469	MVCC 3/500	3000	49.9	503	4.93	13.1	270	22.5	11.3	A	288	203	167	105	140	13	4	30	82.5	65	145	140	160	-	M25x1.5
	600405	MVCC 3/1200	3600	78.0	1130	11.1	20.8	530	-	22.0	A	308	214.5	205	120	170	17	4	45	93.5	63	168	160	182	-	M25x1.5
	600464	MVCC 3/1500	3600	105	1520	14.9	21.5	530	-	22.0	A	308	214.5	205	120	170	17	4	45	93.5	63	168	160	182	-	M25x1.5

\* Working moment = 2 x static moment.



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