

## RELIABILITY

PTC thermistor 180 degrees  
Specific grease retaining device  
Tropicalised standard  
IP66 protection  
Class F insulation

## FLEXIBILITY

Easy mass adjustment  
Various voltages and frequencies available  
Easy access to the terminal box  
Multiple eye-bolts

## QUALITY

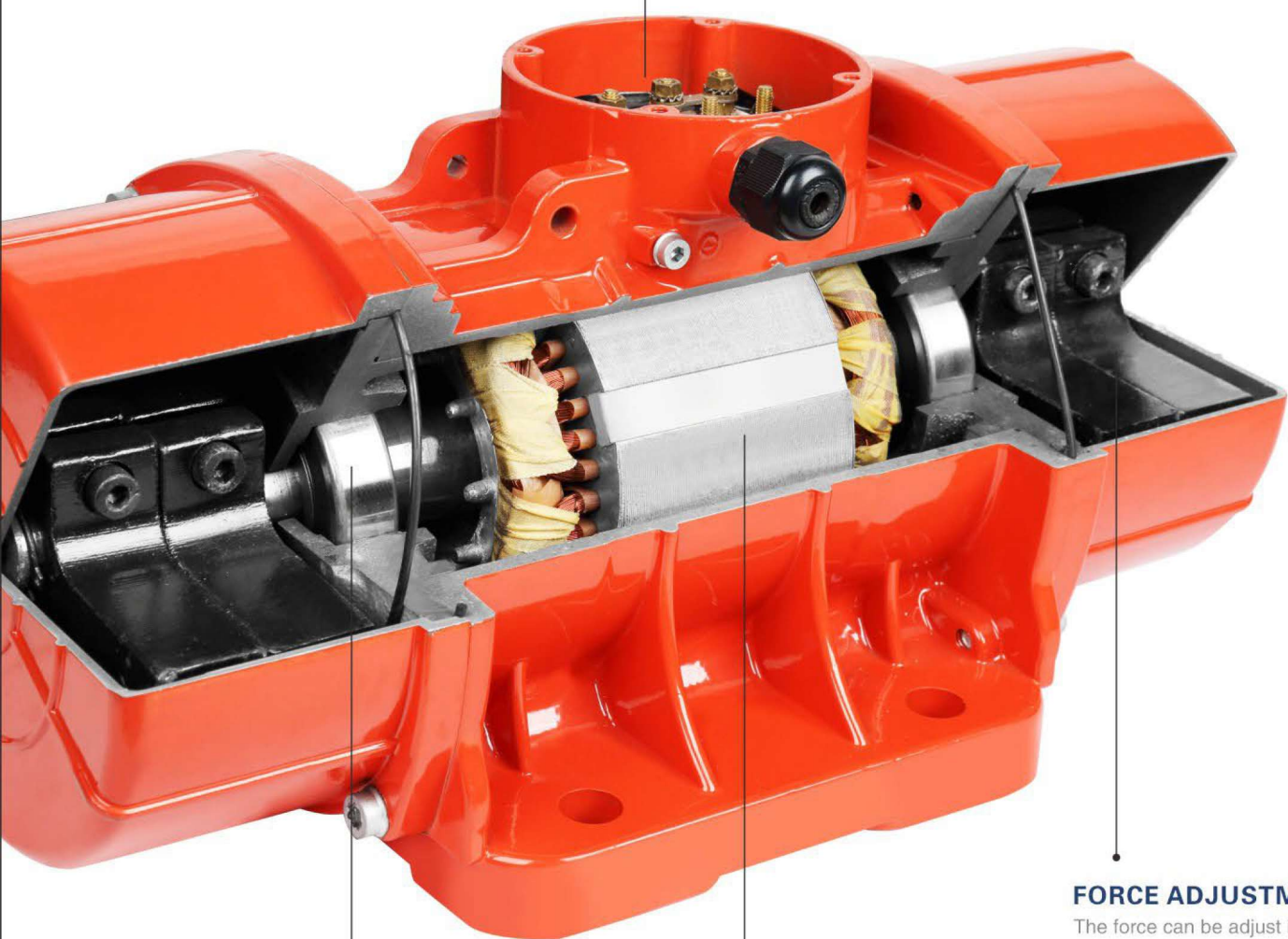
World class materials  
Durable sealing  
Premium bearings  
Strong body design - FEM designed  
Vacuum insulation  
3D quality check

## EFFICIENCY

Optimised power and Weight ratio  
SI continuous duty service  
Optimized electric design

### HIGH QUALITY EXPOXY RESIN

deal sealing , excellent performance in safety  
insulation , waterproof and dustproof



### TOP QUALITY BEARINGS

Extreme precision , low noise , wear  
resisting and super long life

### CLASS HPURE COPPER WIRE

The winded stator is vacuum varnished with  
higher insulation level

### FORCE ADJUSTMENT

The force can be adjust infinitely  
according to the scale on the  
innermass to meet various needs

# CONTENTS

## TECHNICAL FEATURES

03

## INDUSTRIAL VIBRATION MOTOR (MV STANDARD SERIES)



### Applications&cases

04

### 2poles series

05

### 4poles series

07

### 6poles series

09

### 8poles series

11

### 2poles single phase series

12

### Direct current series

13

### Micro series

14

## CONCRETE VIBRATOR



### Applications&cases

15

### High Frequency external concrete vibrator,external concrete vibrator

16

### Internal concrete vibrator

17

### Gasoline concrete vibrator

17

### Concrete pump

17

## INSTALLATION GUIDANCE

### Mounting

18

### Electrical connection

18

### Overload connection

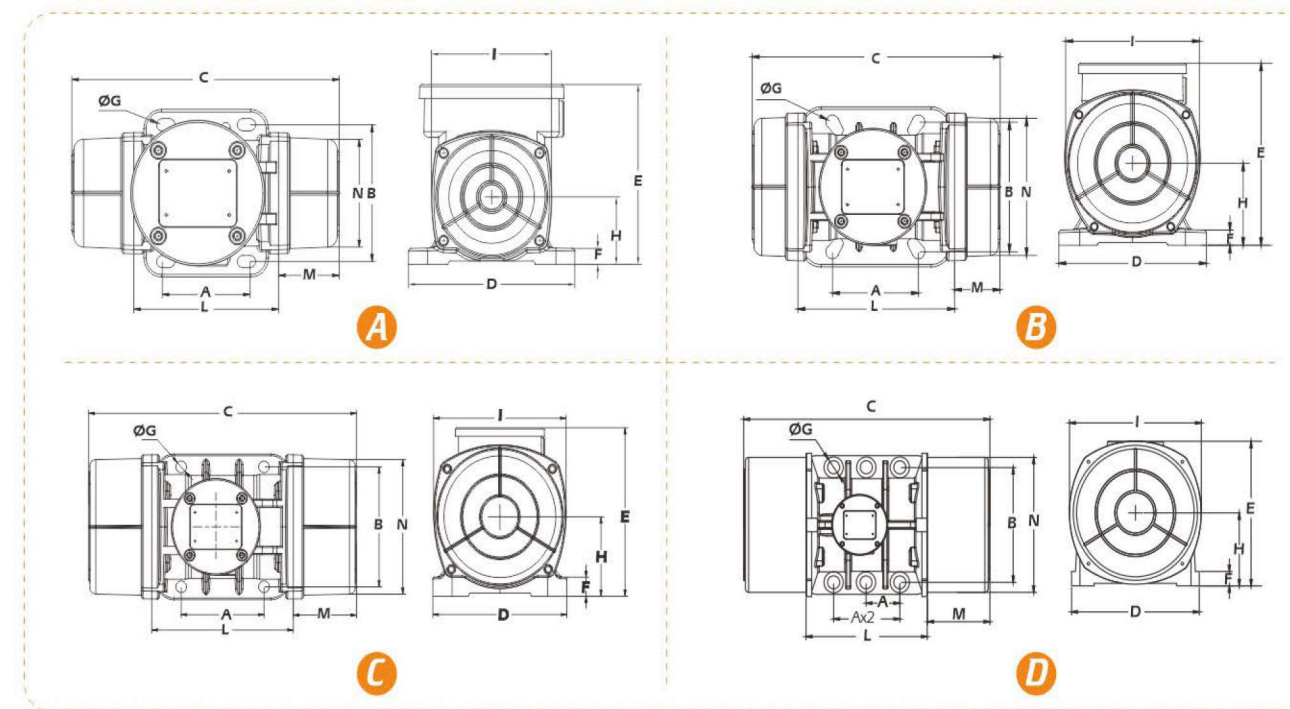
19

### Centrifugal force adjustment & Warning

20



### THREE PHASE (220V/380V) 2 POLES 3000/3600RPM 50/60HZ



Mounting Dimension Unit: mm

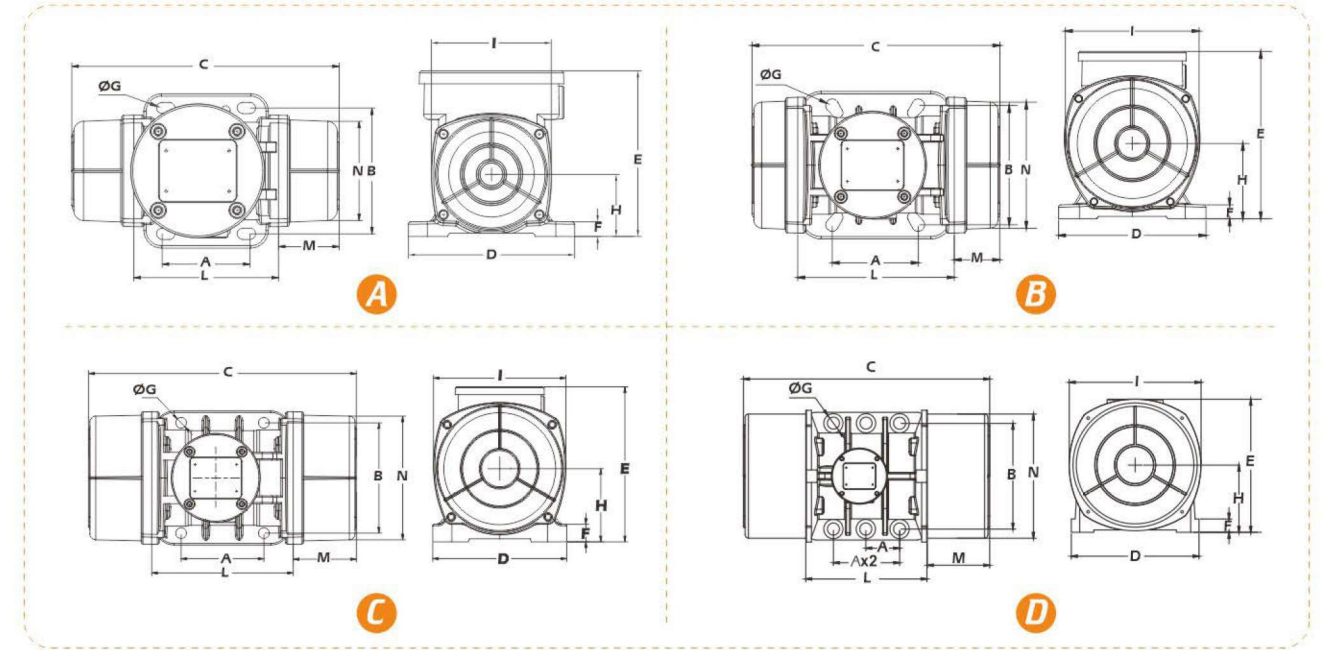
Model	Voltage (V)	Current A.Max(Y)	Input power (KW)	Force (KN)	Weight (KG)	Size
MV40/3	220/380	0.13	0.05	0.3	2.4	size1
MV60/3	220/380	0.16	0.08	0.7	4.6	size10
MV100/3	220/380	0.19	0.1	1	4.7	size10
MV200/3	220/380	0.35	0.18	2	6.3	size20
MV300/3	220/380	0.52	0.27	3	9.9	size30
MV400/3	220/380	0.58	0.3	4	10.2	size30
MV500/3	220/380	0.96	0.5	5	16.7	size40
MV700/3	220/380	1.25	0.66	7	17.2	size40
MV800/3	220/380	1.45	0.75	8	21.8	size50
MV1200/3	220/380	1.85	0.95	10	22.4	size50
MV1300/3	220/380	2.44	1.3	13	23.0	size50
MV1600/3	220/380	2.94	1.57	16	53.5	size60
MV1800/3	220/380	3.75	1.3	18	54.5	size60
MV2000/3	220/380	4.07	2	20	55	size60
MV2200/3	220/380	4.07	2	22	55.5	size60
MV2300/3	220/380	4.44	2.4	23	57	size60
MV3200/3	220/380	5.3	2.9	32	103	size75
MV4000/3	220/380	5.3	2.9	40	107	size75
MV5000/3	220/380	7.22	4	50	111.2	size75
MV6500/3	380/660	9.4	5.5	65	230	size85
MV9000/3	380/660	17.8	10	90	241	size85
MV12000/3	380/660	19	12.5	120	280	size90
MV15000/3	380/660	27.5	18.8	150	340	size90

Model	A	B	ØG	C	D	E	F	H	I	L	M	N	Cable gland	Fig
MV40/3	23-45	91	5.5	175.5	110	72	9	37.5	69	103	36.25	65.5	M16×1.5	H
MV60/3	62-74	106	9	225	130	131	11	48	94	121	52	88	M16×1.5	A
MV100/3	62-74	106	9	235	130	131	11	48	94	121	57	88	M16×1.5	A
MV200/3	62-74	106	9	233	130	155	13	64	118	123	55	111	M20×1.5	A
MV300/3	90	125	13	255	155	175	14	78	142	163	46	134	M20×1.5	B
MV400/3	90	125	13	255	155	175	14	78	142	163	46	134	M20×1.5	B
MV500/3	105	140	13	338	170	197	21	92	168	178	80	159	M20×1.5	C
MV700/3	105	140	13	338	170	197	21	92	168	178	80	159	M20×1.5	C
MV800/3	120	170	17	325	208	210	24	94	180	205	60	171	M20×1.5	C
MV1200/3	120	170	17	325	208	210	24	94	180	205	60	171	M20×1.5	C
MV1300/3	120	170	17	325	208	210	24	94	180	205	60	171	M20×1.5	C
MV1600/3	140	190	17	416	230	262	30	120	247	224	96	222	M27×1.5	C
MV1800/3	140	190	17	416	230	262	30	120	247	224	96	222	M27×1.5	C
MV2000/3	140	190	17	416	230	262	30	120	247	224	96	222	M27×1.5	C
MV2200/3	140	190	17	416	230	262	30	120	247	224	96	222	M27×1.5	C
MV2300/3	140	190	17	416	230	262	30	120	247	224	96	222	M27×1.5	C
MV3200/3	155	255	25	526	308	318	38	141	280	278	124	264	M27×1.5	C
MV4000/3	155	255	25	526	308	318	38	141	280	278	124	264	M32×1.5	C
MV5000/3	155	255	25	526	308	318	38	141	280	278	124	264	M32×1.5	C
MV6500/3	200	320	28	639	388	402	42	203	400	369	135	376	M32×1.5	C
MV9000/3	200	320	28	639	388	402	42	203	400	369	135	376	M32×1.5	C
MV12000/3	125	380	39	675	446	415	42	206	400	405	135	376	M32×1.5	D
MV15000/3	125	380	39	675	446	415	42	206	400	405	135	376	M32×1.5	D

\*Special voltage and frequency can be customized



### THREE PHASE (220V/380V) 4 POLES 1500/1800RPM 50/60HZ



Mounting Dimension Unit: mm

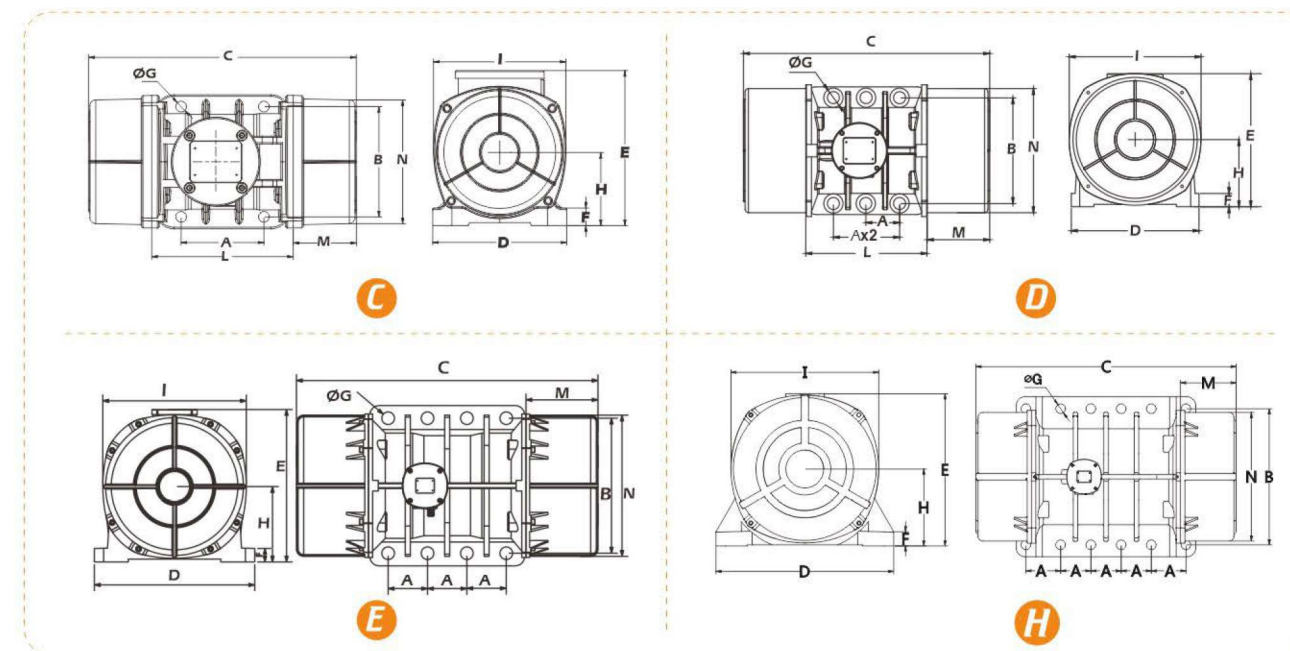
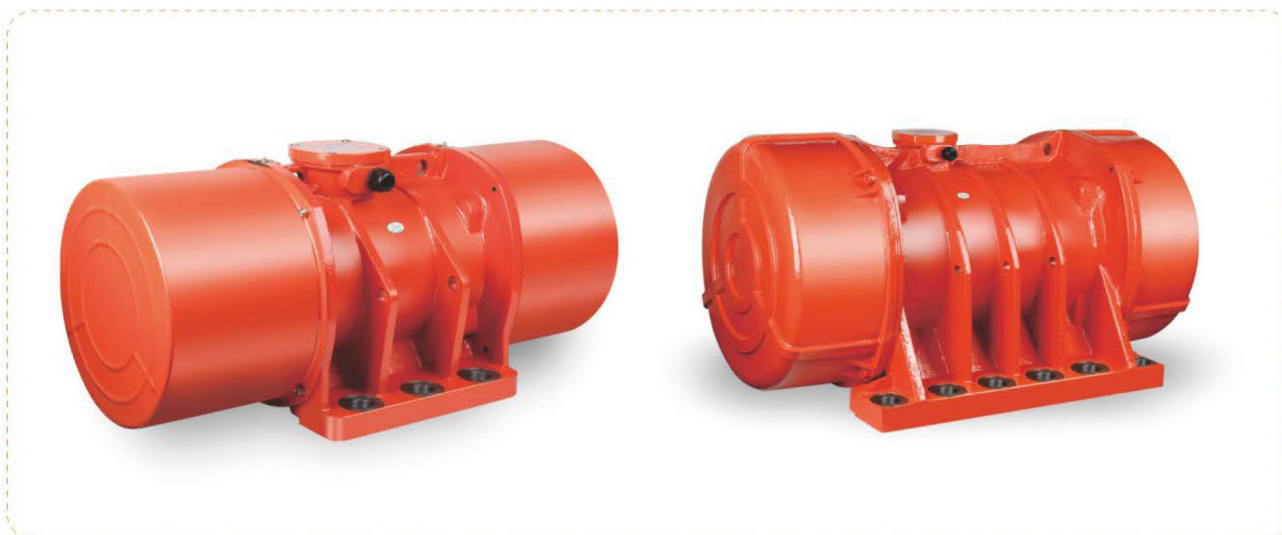
Model	Voltage [V]	Current A.Max(Y)	Input power [KW]	Force [KN]	Weight [KG]	Size
MV40/15	220/380	0.26	0.04	0.3	4.6	size10
MV90/15	220/380	0.31	0.12	0.9	6.8	size20
MV200/15	220/380	0.49	0.16	2	12.8	size30
MV250/15	220/380	0.54	0.18	2.5	12.9	size30
MV300/15	220/380	0.62	0.20	3	13.8	size30
MV400/15	220/380	0.84	0.30	4	19.6	size40
MV500/15	220/380	1.06	0.35	5	21.0	size40
MV700/15	220/380	1.32	0.62	7	28.2	size50
MV800/15	220/380	1.36	0.65	8	29.1	size50
MV1100/15	220/380	1.4	0.65	11	36.5	size50
MV1400/15	220/380	1.78	0.90	14	60.5	size60
MV1700/15	220/380	2.09	1.15	17	62.5	size60
MV2400/15	220/380	3.2	1.6	24	68.0	size60
MV2500/15	220/380	3.4	1.8	25	97.5	size70
MV3000/15	220/380	3.68	1.9	30	110.0	size70
MV3800/15	220/380	4.15	2.2	38	130.0	size75
MV4300/15	220/380	4.5	2.5	43	145.0	size75
MV5500/15	220/380	6.5	3.6	55	193	size80
MV7200/15	380/660	8.5	5	72	253	size85
MV9000/15	380/660	13.4	7.5	90	269	size85
MV10000/15	380/660	14.4	7.8	100	329	size90
MV11500/15	380/660	15.5	9	116	445	size100
MV14500/15	380/660	18.5	11.5	141	460	size100

\*Special voltage and frequency can be customized

Model	A	B	ØG	C	D	E	F	H	I	L	M	N	Cable gland	Fig
MV40/15	62-74	106	9	225	130	131	11	48	94	121	52	86	M16×1.5	A
MV90/15	62-74	106	9	233	130	155	13	64	118	123	55	111	M20×1.5	A
MV200/15	90	125	13	307	155	175	14	78	142	163	72	134	M20×1.5	B
MV250/15	90	125	13	307	155	175	14	78	142	163	72	134	M20×1.5	B
MV300/15	90	125	13	307	155	175	14	78	142	163	72	134	M20×1.5	B
MV400/15	105	140	13	338	170	197	21	92	168	178	80	159	M20×1.5	C
MV500/15	105	140	13	338	170	197	21	92	168	178	80	159	M20×1.5	C
MV700/15	120	170	17	395	208	210	24	94	180	205	95	170	M20×1.5	C
MV800/15	120	170	17	395	208	210	24	94	180	205	95	170	M20×1.5	C
MV1100/15	120	170	17	457	208	210	24	94	180	205	126	170	M20×1.5	C
MV1400/15	140	190	17	444	230	262	30	120	247	224	110	222	M27×1.5	C
MV1700/15	140	190	17	464	230	262	30	120	247	224	120	222	M27×1.5	C
MV2400/15	140	190	17	514	230	262	30	120	247	224	145	222	M27×1.5	C
MV2500/15	155	225	22	558	308	318	38	141	280	278	140	264	M27×1.5	C
MV3000/15	155	225	22	558	308	318	38	141	280	278	140	264	M27×1.5	C
MV3800/15	155	255	23.5	588.5	310	319	38	150.5	281	278.5	155	264	M27×1.5	C
MV4300/15	155	255	23.5	602.5	310	319	38	150.5	281	278.5	162	264	M32×1.5	C
MV5500/15	180	280	26	621	336	353	35	170	330	321	150	311	M32×1.5	C
MV7200/15	200	320	28	639	388	402	42	203	400	369	135	378	M32×1.5	C
MV9000/15	200	320	28	639	388	402	42	203	400	369	135	378	M32×1.5	C
MV10000/15	125	380	39	747	446	415	42	206	400	405	171	380	M32×1.5	D
MV11500/15	140	440	45	906	530	484	37	232	446	486	210	424	M32×1.5	E
MV14500/15	140	440	45	906	530	484	37	232	446	486	210	424	M32×1.5	E



### THREE PHASE (220V/380V) 6 POLES 1000/1200RPM 50/60HZ



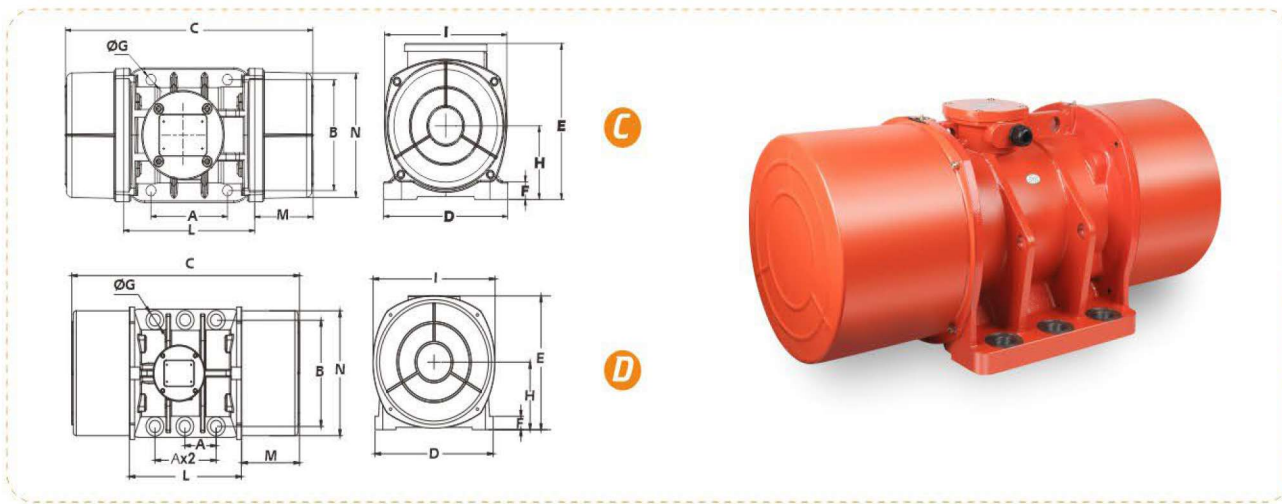
Mounting Dimension Unit: mm

Model	Voltage	Current	Input power	Force	Weight	Size
	(V)	A.Max(Y)	(KW)	(KN)	(KG)	
MV50/1	220/380	0.38	0.12	0.5	13.1	size30
MV100/1	220/380	0.42	0.12	1	13.8	size30
MV200/1	220/380	0.48	0.18	1.8	21.0	size40
MV300/1	220/380	0.67	0.35	3	29.1	size50
MV400/1	220/380	0.78	0.37	4	33.3	size50
MV500/1	220/380	1.2	0.55	5	36.5	size50
MV800/1	220/380	1.26	0.75	7.8	62.5	size60
MV1100/1	220/380	1.42	0.75	11	80.0	size60
MV1400/1	220/380	1.95	1	14	82.0	size60
MV1500/1	220/380	2	1.10	15	84.0	size60
MV1600/1	220/380	2.06	1.1	16	86.0	size60
MV1620/1	220/380	2.06	1.5	16	127.0	size70
MV2100/1	220/380	2.88	1.96	21	129.0	size70
MV2600/1	220/380	3.63	2.2	26	143.0	size75
MV3000/1	220/380	4.17	2.5	30	152.0	size75
MV3800/1	220/380	5.5	3.2	38	216.0	size80
MV4700/1	220/380	6.5	3.8	47	231.0	size80
MV5200/1	220/380	6.92	4.3	52	280.0	size85
MV6500/1	220/380	7.6	7.1	65	305	size85
MV8000/1	380/660	12.6	7.5	80	325	size85
MV9000/1	380/660	13.2	7.6	90	338	size85
MV10000/1	380/660	14	10	100	386	size90
MV13001/1	380/660	16.4	11	130	422	size90
MV15000/1	380/660	18	12	144	672	size105
MV17500/1	380/660	21	12	176	744	size105
MV19500/1	380/660	24	13.95	199	768	size105
MV22000/1	380/660	28	223	223	916	size110
MV25000/1	380/660	28	250	250	994	size110
MV30000/1	380/660	52.96	300	300	1290	size120

Model	A	B	ØG	C	D	E	F	H	I	L	M	N	Cable gland	Fig
MV50/1	90	125	13	307	155	172	14	78	142	163	72	134	M20×1.5	B
MV100/1	90	125	13	307	155	172	14	78	142	163	72	134	M20×1.5	B
MV200/1	105	140	13	338	170	197	21	92	168	178	80	159	M20×1.5	C
MV300/1	120	170	17	396	208	209	24	94	180	206	95	170	M20×1.5	C
MV400/1	120	170	17	458	208	209	24	94	180	206	126	170	M20×1.5	C
MV500/1	120	170	17	458	208	209	24	94	180	206	126	170	M20×1.5	C
MV800/1	140	190	17	464	230	262	30	120	247	224	120	222	M25×1.5	C
MV1100/1	140	190	17	514	230	262	30	120	247	224	145	222	M25×1.5	C
MV1400/1	140	190	17	564	230	262	30	120	247	224	170	222	M25×1.5	C
MV1500/1	140	190	17	564	230	262	30	120	247	224	170	222	M25×1.5	C
MV1600/1	140	190	17	564	230	262	30	120	247	224	170	222	M25×1.5	C
MV1620/1	155	225	22	558	308	318	38	141	280	278	140	264	M20×1.5	C
MV2100/1	155	225	22	588	308	318	38	141	280	278	155	264	M20×1.5	C
MV2600/1	155	255	23.5	698	308	318	38	141	280	278	210	264	M32×1.5	C
MV3000/1	155	255	23.5	698	308	318	38	141	280	278	210	264	M32×1.5	C
MV3800/1	180	280	26	687	336	353	35	170	330	321	183	311	M32×1.5	C
MV4700/1	180	280	26	737	336	353	35	170	330	321	208	311	M32×1.5	C
MV5200/1	200	320	28	709	388	402	42	203	400	369	170	378	M32×1.5	C
MV6500/1	200	320	28	709	388	402	42	203	400	369	170	378	M32×1.5	C
MV8000/1	200	320	28	779	388	402	42	203	400	369	205	378	M32×1.5	C
MV9000/1	200	320	28	779	388	402	42	203	400	369	205	378	M32×1.5	C
MV10000/1	125	380	39	925	446	415	42	206	400	405	260	378	M32×1.5	D
MV13001/1	125	380	39	925	446	415	42	206	400	405	260	378	M32×1.5	D
MV15000/1	140	480	45	992	570	540	48	268	510	560	216	490	M32×1.5	E
MV17500/1	140	480	45	1072	570	540	48	268	510	560	256	490	M32×1.5	E
MV19500/1	140	480	45	1072	570	540	48	268	510	560	256	490	M32×1.5	E
MV22000/1	140	520	45	1142	620	590	42	297	560	560	291	530	M32×1.5	E
MV25000/1	140	520	45	1142	620	590	42	297	560	560	291	530	M32×1.5	E
MV30000/1	140	600	45	1204	740	627	59	320	615	690	257	595	M32×1.5	H



### THREE PHASE (220V/380V) 8 POLES 750/900RPM 50/60HZ



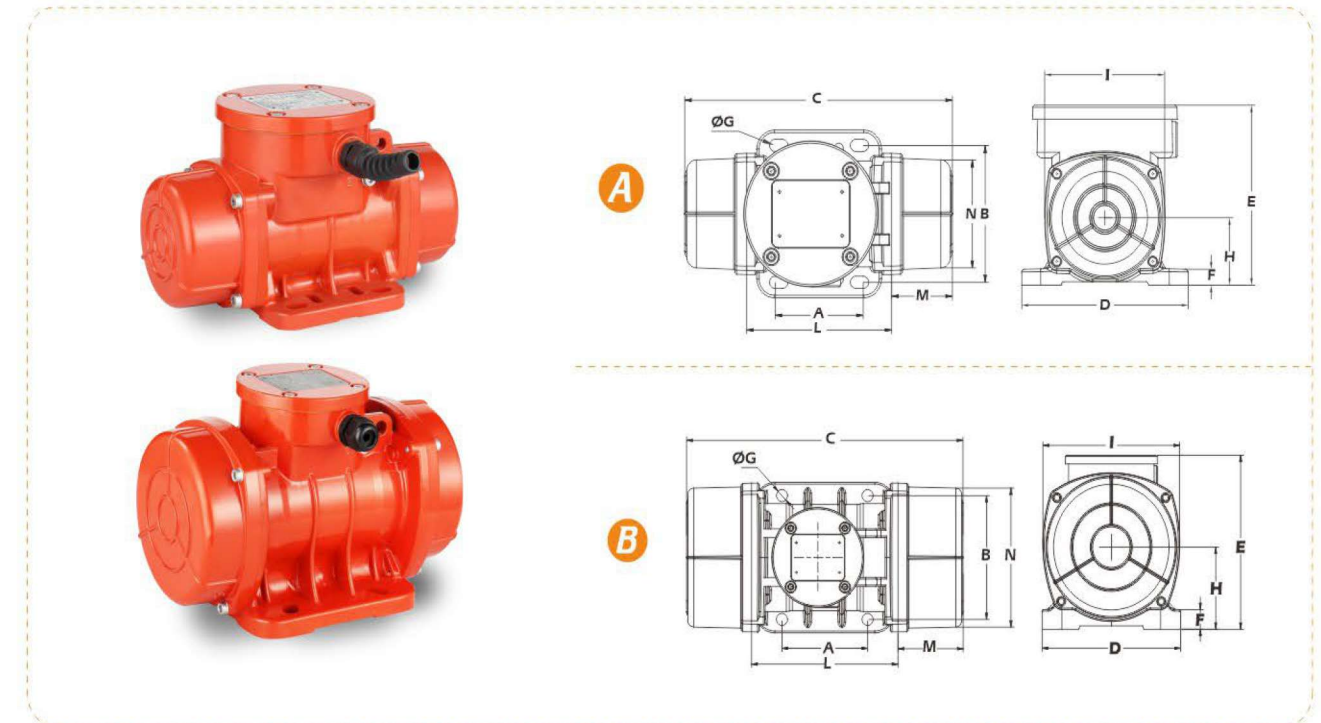
Model	Voltage (V)	Current A.Max(Y)	Input power (KW)	Force (KN)	Weight (KG)	Size
MV150/0.75	220/380	1.14	0.23	1	21	size40
MV250/0.75	220/380	0.9	0.35	2	29	size50
MV400/0.75	220/380	0.9	0.35	2.5	34	size50
MV650/0.75	220/380	1.2	0.5	4.5	63	size60
MV900/0.75	220/380	1.23	0.65	6	70	size60
MV1300/0.75	220/380	2.2	1.2	9	90	size70
MV2100/0.75	220/380	2.81	1.5	15	150	size75
MV3100/0.75	220/380	4.5	2	21	201	size80
MV3800/0.75	220/380	6	2.5	25	219	size80
MV4200/0.75	220/380	7.15	2.9	30	268	size85
MV5300/0.75	220/380	8	4	35	289	size85
MV6500/0.75	220/380	8.78	5	45	308	size85
MV10000/0.75	220/380	13.5	6.8	70	422	size90

\*Special voltage and frequency can be customized

Mounting Dimension Unit: mm

Model	A	B	ØG	C	D	E	F	H	I	L	M	N	Cable gland	Fig
MV150/0.75	105	140	13	330	170	196	20	92	174	166	78	160	M20×1.5	C
MV250/0.75	120	170	17	391	208	210	22	96	185	192	97	170	M20×1.5	C
MV400/0.75	120	170	17	455	208	210	22	96	185	192	129	170	M20×1.5	C
MV650/0.75	140	190	17	446	230	260	26	124	240	218	112	222	M25×1.5	C
MV900/0.75	140	190	17	490	230	260	26	124	240	218	134	222	M25×1.5	C
MV1300/0.75	155	225	22	563	275	290	30	140	256	250	154	236	M25×1.5	C
MV2100/0.75	155	255	23.5	692	304	314	30	147	285	277	205	265	M32×1.5	C
MV3100/0.75	180	280	26	683	332	354	32	170	330	312	183	311	M32×1.5	C
MV3800/0.75	180	280	26	733	332	354	32	170	330	312	208	311	M32×1.5	C
MV4200/0.75	200	320	28	704	385	402	40	203	394	360	170	378	M32×1.5	C
MV5300/0.75	200	320	28	704	385	402	40	203	394	360	170	378	M32×1.5	C
MV6500/0.75	200	320	28	774	385	402	40	203	394	360	205	378	M32×1.5	C
MV10000/0.75	125	380	39	948	452	415	40	205	394	380	280	378	M32×1.5	D

### SINGLE PHASE (220V) 2 POLES 3000RPM 50HZ



Model	Voltage (V)	Current A.Max	Input power (KW)	Force (KN)	Weight (KG)	Size
MV60/3M	220V	0.43	0.08	0.6	4.5	size10
MV100/3M	220V	0.54	0.1	1	5.1	size10
MV200/3M	220V	0.71	0.13	2	6.8	size20
MV300/3M	220V	1.58	0.29	3	10	size30
MV400/3M	220V	1.68	0.31	4	10.8	size30

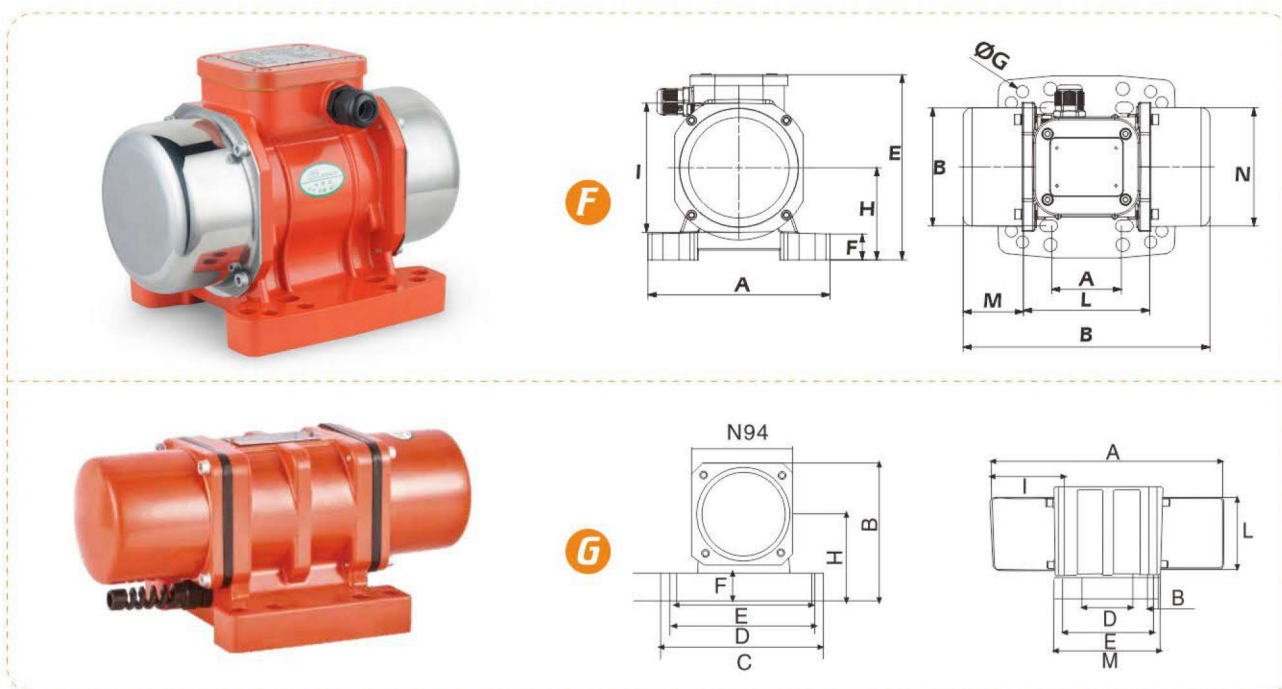
\*Special voltage and frequency can be customized

Mounting Dimension Unit: mm

Model	A	B	ØG	C	D	E	F	H	I	L	M	N	Cable gland	Fig
MV60/3M	62-74	106	9	225	130	131	11	48	94	121	52	88	M16×1.5	A
MV100/3M	62-74	106	9	235	130	131	11	48	94	121	57	88	M16×1.5	A
MV200/3M	62-74	106	9	233	130	155	13	64	118	123	55	111	M20×1.5	A
MV300/3M	90	125	13	255	155	175	14	78	142	163	46	134	M20×1.5	B
MV400/3M	90	125	13	255	155	175	14	78	142	163	46	134	M20×1.5	B



## DC CURRENT 12V 24V 3000RPM



Model	Voltage (V)	Current (A)	Input power (kW)	Force		RPM	Weight (kg)	Size
				(kg)	(kN)			
MV50DC-24	24V	4.2	0.1	50	0.5	3600	4.5	size10
MV50DC-12	12V	9.4	0.1	50	0.5	3600	4.5	size10
MV200DC-24	24V	6.67	0.16	200	2	3600	6.5	size23
MV200DC-12	12V	13.3	0.16	200	2	3600	6.5	size23
MV300DC-24	24V	6.9	0.18	300	3	4600	6.8	size23
ZF18-50D-12	12V	13.8	0.18	300	3	3600	6.8	size23
ZF18-50D-24	24V	6.9	0.18	300	3	3600	6.8	size23

\*Special voltage and frequency can be customized

Mounting Dimension Unit: mm

Model	A	B	C	D	E	F	ØG	H	I	L	M	N	Cable gland	Fig
MV50DC-24	62-74	106	235	130	131	11	9	48	94	121	57	88	M16×1.5	A
MV50DC-12	62-74	106	235	130	131	11	9	48	94	121	57	88	M16×1.5	A
MV200DC-24	62-74 65 115 135	106 140 135 115	220	164	170	25	9	82	116	123	54	110	M20×1.5	F
MV200DC-12	62-74 65 115 135	106 140 135 115	220	164	170	25	9	82	116	123	54	110	M20×1.5	F
MV300DC-24	62-74	106	220	164	170	25	9	82	116	123	54	110	M20×1.5	F
ZF18-50D-12	282.5	127.5	163	60 115	140 135	27	13	80.5	88.75	88.7	138	94	M20×1.5	G
ZF18-50D-24	282.5	127.5	163	60 115	140 135	27	13	80.5	88.75	88.7	138	94	M20×1.5	G

## MICRO VIBRATION MOTOR (ALUMINIUM)



Single Phase 110V/220V 2 Poles 3000/3600RPM 50/60Hz

Model	Voltage (V)	Current (A)	Input power (kW)	RPM		Force (KG)	Size
				50Hz	60Hz		
MV40/2M-2	220/110	0.148/0.351	0.04	3000	3600	46	size2

\*Special voltage and frequency can be customized

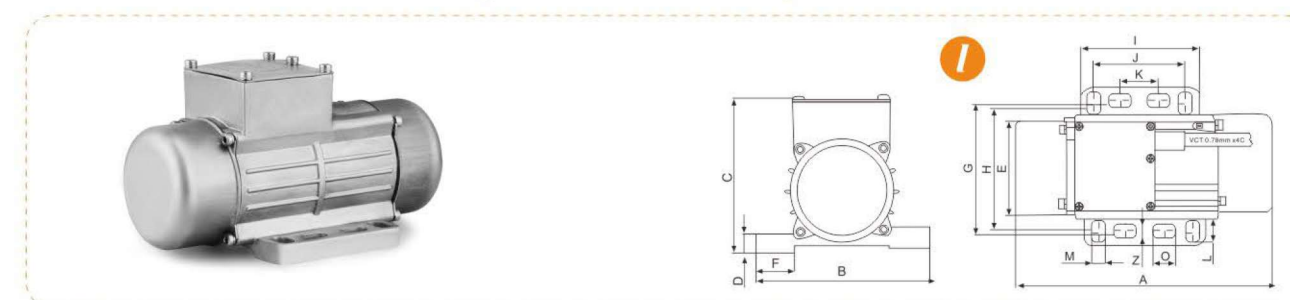
Three Phase 220V/380V 2 Poles 3000/3600RPM 50/60Hz

Model	Voltage (V)	Current (A)	Input power (kW)	RPM		Force (KG)	Size
				50Hz	60Hz		
MV40/2-2	380/220	0.121/0.152	0.04	3000	3600	46	size2

Mounting Dimension Unit: mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	153	110	65	10	68	33	55	28	31	91.5	9	21	55	M-16
2	170	110	72.5	10	68	29	55	34	32.5	91.5	9	21	68	M-16

## MICRO VIBRATION MOTOR (STAINLESS STEEL)



Single Phase 110V/220V 2 Poles 3000/3600RPM 50/60Hz

Model	Voltage (V)	Current (A)	Input power (kW)	RPM		Force (kg)	Size
				50Hz	60Hz		
MV40/2SM-3	220/110	0.148/0.351	0.04	3000	3600	46	size3

Three Phase 220V/380V 2 Poles 3000/3600RPM 50/60Hz

Model	Voltage (V)	Current (A)	Input power (kW)	RPM		Force (kg)	Size
				50Hz	60Hz		
MV40/2S-3	380/220	0.121/0.152	0.04	3000	3600	46	size3

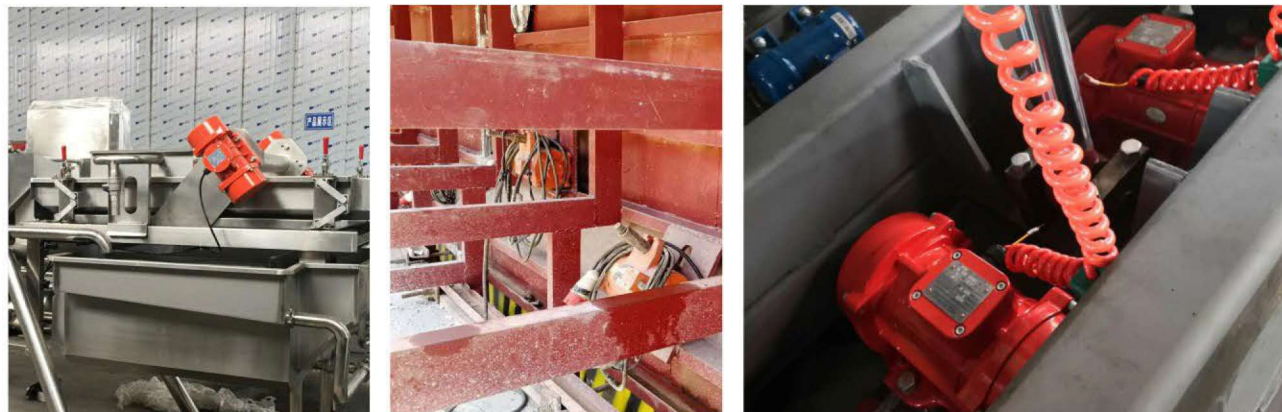
Mounting Dimension Unit: mm

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
3	153	110	65	10	68	33	55	28	31	91.5	9	21	55	M-16
4	170	110	72.5	10	68	29	55	34	32.5	91.5	9	21	68	M-16



## INDUSTRIAL VIBRATION MOTOR (MV STANDARD SERIES) APPLICATION AND CASES

Ideal for hopper emptying, compaction, concrete pumps, etc



## HF HIGH FREQUENCY EXTERNAL CONCRETE VIBRATOR

### Application & features

1. Used for pre-fabrication railway, highway, bridges.
2. High vibration frequency 100–180Hz, big centrifugal force 12–18kN, small amplitude, wide radiation range, fast forming, less quantity than normal, longer service time.



GZF150A

GZF150B

GZ100

MV180/60

Model	Frequency		Force (kN)	Power (kW)	Current 380V(A)	Weight (kg)
	(Hz)	(r/min)				
GZF150A	75	10800	12	1.5	3.94	22.7
GZF150B	75	10800	12	1.5	3.94	20.25
GZ100	100	6000	18	2.0	3.08	28.2
MV180/60	200	6000	18	1.8	22	28.2

### External concrete vibrator



ZF330-50

ZF150-50

ZF110-50

ZW-10

ZW-2.5

Model	Frequency		Force (kN)	Power (kW)	Current 380V(A)	Weight (kg)
	(mm)	(r/min)				
ZF25-50	110x120	3000	2	0.25	0.60	6
ZF55-50	120x180	3000	4	0.55	1.45	14
ZF110-50	120x180	3000	5	1.1	2.44	15.5
ZF150-50	180x200	3000	7	1.5	3.24	24
ZF220-50	180x200	3000	9	2.2	4.26	28
ZF330-50	150x230	3000	12	3.0	5.30	35
ZW-12	160x200	3000	12	3.0	5.30	49
ZW-10	160x180	3000	10	2.2	4.26	30
ZW-7	140x155	3000	7	1.5	3.24	17
ZW-5	140x155	3000	5	1.1	2.44	16
ZW-3.5	108x137	3000	3.5	0.75	1.6	14
ZW-2.5	110x120	3000	2.5	0.25	0.60	8



## INTERNAL CONCRETE VIBRATOR



Model	Power (kW)	Voltage (V)	Speed (RPM)	Weight (kg)	Dimension (mm)
ZN-50	1.1	380	2840	11	320×180×280
ZN-50M	1.1	220	2840	11	320×180×280
ZN-70	1.5	380	2840	13.5	320×180×280
ZN-70M	1.5	220	2840	13.5	320×180×280
ZN-90	2.0	380	2840	15	320×180×280
ZN-100	3.0	380	2840	16	320×180×280

## GASOLINE CONCRETE VIBRATOR



Model	Power (kW)	Voltage (V)	Ferquency (Hz)	diameter
JDB-0.55	0.55	380	50	1.2
JDB-0.75	0.75	380	50	1.5
JDB-1.1	1.1	380	50	2.0

Model	Head (m)	Flow (m³/h)
RB-60	10	40
RB-80	12	60

## INSTALLATION

### MOUNTING

The baseplate surface where the vibrator motor is mounted, has an allowable tolerance of 0.08mm, so that the surface rests uniformly against each other to avoid internal tension, that may cause breakage of the foot of the vibrator motor.

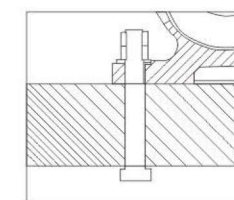
Use 8.8 class bolts, 8.0 class nuts and flat washers that belongs to category A EN ISO 7089/7092

The graph below shows the correct torque settings for the different bolt sizes used on the motor vibrators.

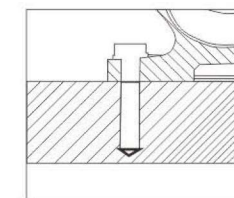
### MOTOR / MACHINE INTERFACE

Screw		Washer		Clamping torque	
Mertic	Imperial	Mertic	Imperial Flat washer	(Nm)	(ft*lb)
M6	1/4"	6.4×12	1/4"	9	6.5
M8	5/16"	8.4×16	5/16"	23	16.5
M10	3/8"	10.5×20	3/8"	45	33
M12	1/2"	13×24	1/2"	80	58
M16	5/8"	17×30	5/8"	185	137
M20	13/16"	21×37	13/16"	373	275
M22	7/8"	23×29	7/8"	550	411
M24	15/16"	25×44	15/16"	696	513
M27	1"	28×50	1"	873	645
M36	1-3/8"	37×66	1-3/8"	1864	1370

### FIXING



Smooth through hole  
+screw tapped thread  
+flat washer  
+nut and counter nut



Tapped threaded hole  
+screw +flat washer

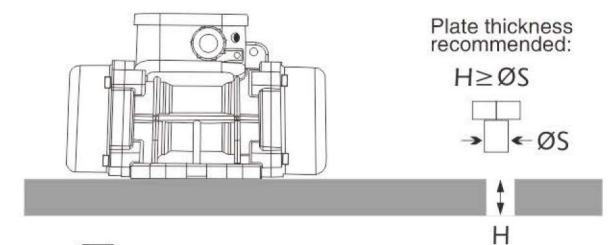


Plate thickness recommended:

$H \geq \text{ØS}$

$\text{ØS}$

H

MAX0.08mm



MACHINED & NOT PAINTED  
SUPPORT PLATE

### ELECTRICAL CONNECTION

Make sure the voltage and frequency supply match the ones indicated on the rating plate of the electric vibrator. Insert the power cable through the cable gland, Use only conductors that have a suitable cross-section. Connect the lead wire to the pins [ as shown in the diagram below ] and tighten them with the specified torque.

Do not forget to fix the earthing cable to the provided studs [ compulsory connection ] !

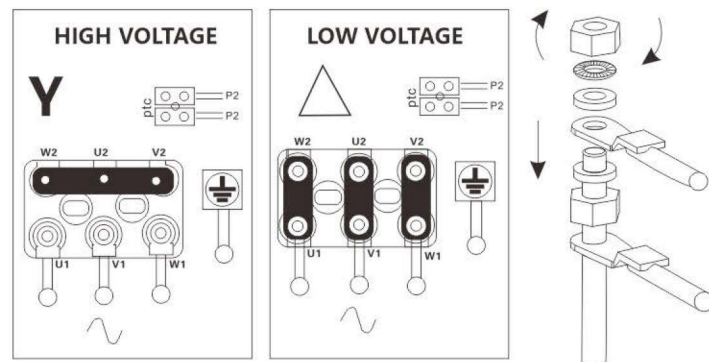
Before closing the junction box make sure the cover gasket is properly fitted in order to keep the specified IP protection.

For more details about motor installation refer to product manuals.



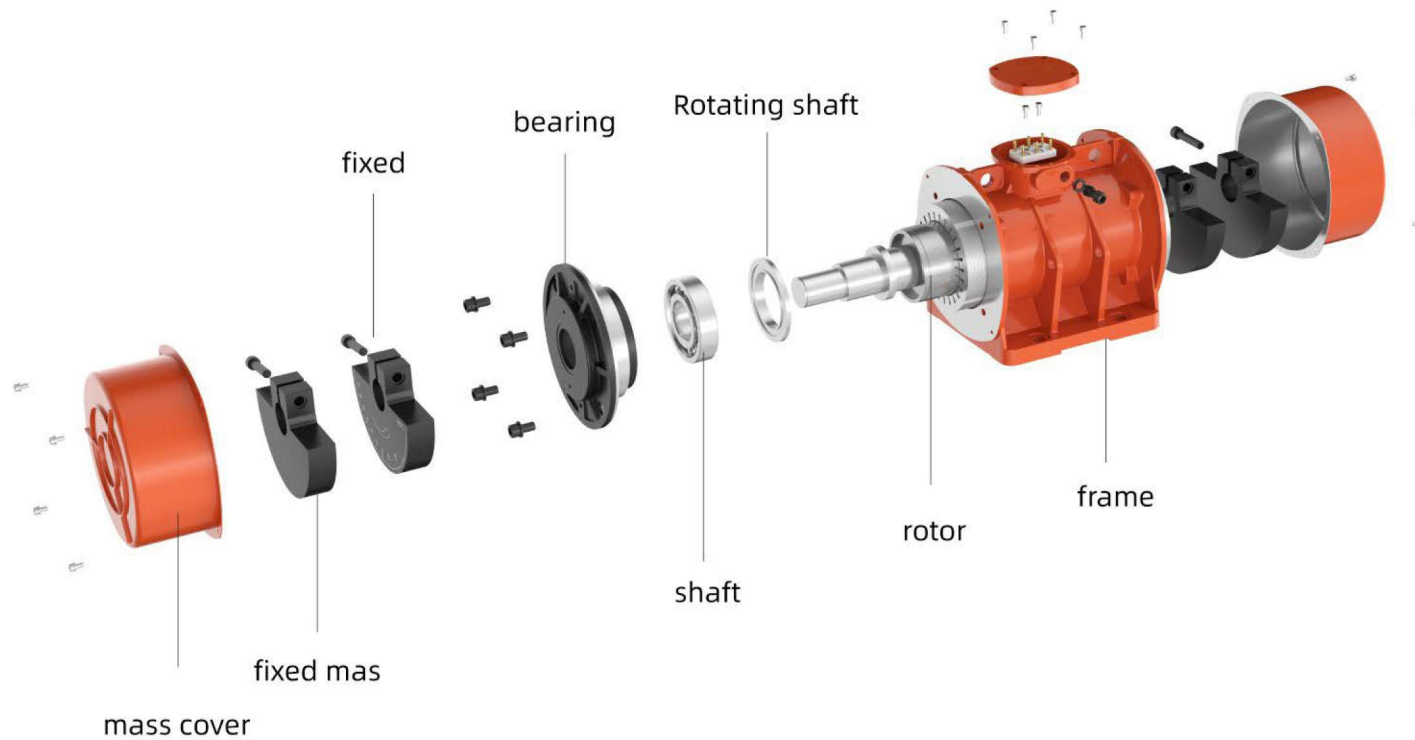
# INSTALLATION

Junction box nuts tightening torque		
Metric	Nm	FT*LB
M4	2.5	1.84
M5	4	2.95
M6	5	3.69
M8	6	4.43
M10	8	5.90



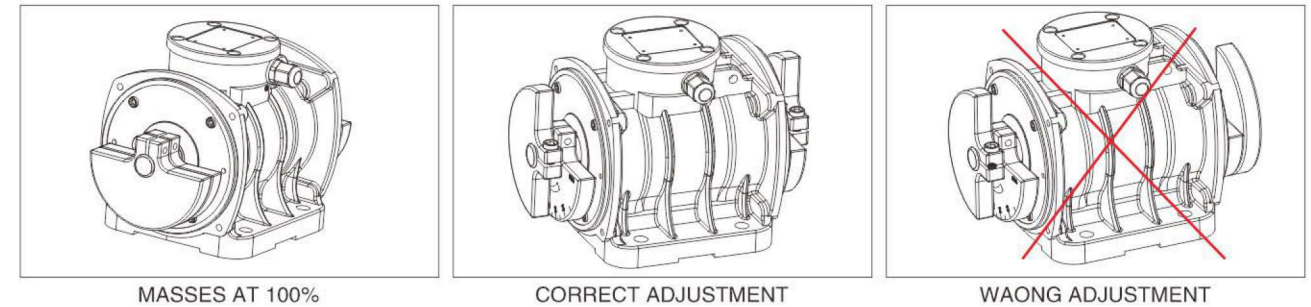
## OVERLOAD PROTECTION

All electric vibrators MUST be connected to a suitable external overload protection. When using two electric vibrators in sync, each of them has to be connected to an external overload protector and these overload protectors must be interlocked to make sure both motors are stopped if one fails.

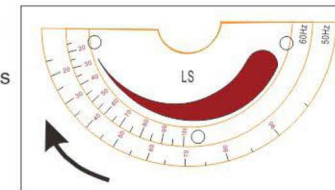


# CENTRIFUGAL FORCE ADJUSTMENT

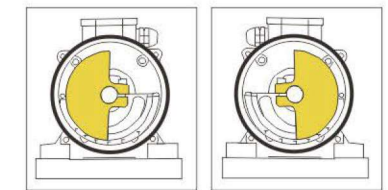
## ADJUSTABLE MASSES - TYPE A



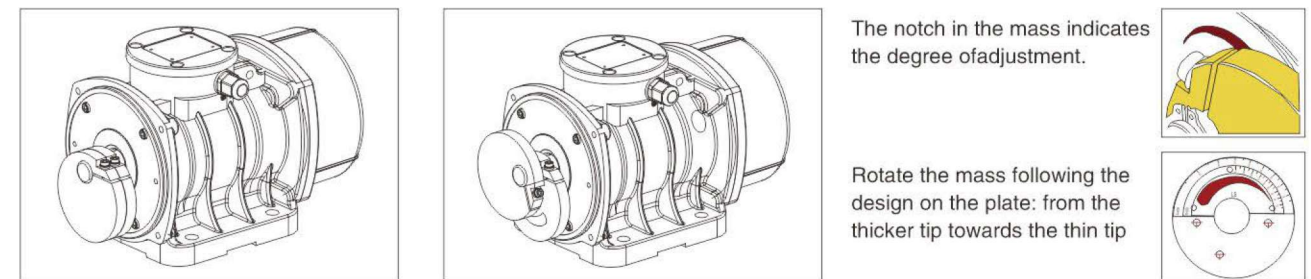
Rotate the mass following the design on the plate: from the thicker tip towards the thin tip.



Rotate the masses in the opposite direction to the cable gland.



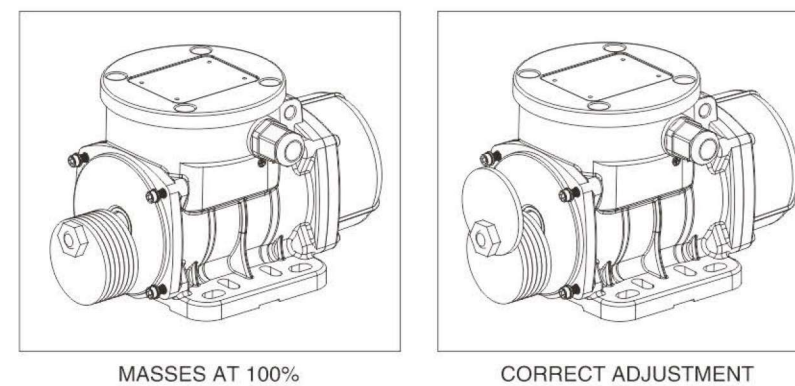
## ADJUSTABLE MASSES - TYPE B



The notch in the mass indicates the degree of adjustment.

Rotate the mass following the design on the plate: from the thicker tip towards the thin tip

## ADJUSTABLE MASSES - TYPE C (BLADE MASSES)



**! WARNING: DO NOT grease new motors before installation.**

All motors come from the factory already filled with the right quantity of grease.

Number of blades	5+5	8+8	9+9	12+12	13+13
The fore reduced if turn up one blade on both side	40	25	22.2	16.7	15.4