GUANG LING
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GLOBAL VIBRATION SYSTEM SOLUTIONS EXPERT



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CERTIFICATES

COMPANY

ZHEJIANG GUANGLING VIBRATING TECHNOLOGY CO.,LTD is a professional manufacturer for top quality vibrator motor and vibrators only with 20 years experience. It is located in world famous electric machinery city----Wenling, zhejiang province.It covers an area of 20000 square meters and focus on R&D and developing in vibrating filed heart and soul.

Company has introduced the whole sets of advanced processing machines with mature technology and craft gradually in last 20 years.Until today,company has more than 30 sets of high precision facilities which guarantees our good quality based on the mature quality control systems.

Company pursues to create value for our customers by helping offer global vibration systems soultion.To us,we not benefit by sales,but only benefit by helping more and more people solving their problems.We are 24hours online to offer 5 star after-sale service and convenience to our customers.And in result We have enjoyed good reputation in China domestic and customers from all over the world with 8 millions turnover now.

We warmly welcome your visit and cooperation!

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TECHNICAL FEATURES

QUALITY

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

EFFICIENCY

Optimised power
Weight ratio
S1 continuous duty service
Optimized electric design



RELIABILITY

PTC thermistor 180 degrees
Specifc 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

INDUSTRIAL VIBRATION MOTOR (MV STANDARD SERIES) APPLICATION AND CASES

It is widely used in vibrator feeder, construction materials, sand/cement screening,
material milling, flow conveyor, vibration separator, hoppyer emptying, bin activator, etc.

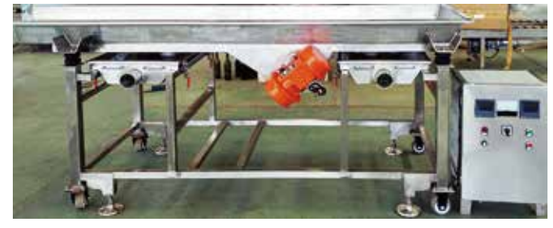














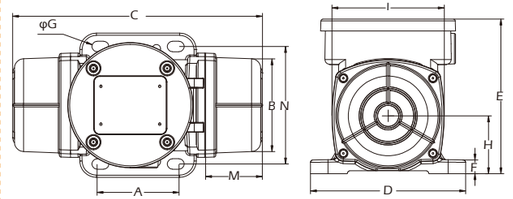
THREE PHASE (220V/380V) 2 POLES 3000/3600RPM 50/60HZ



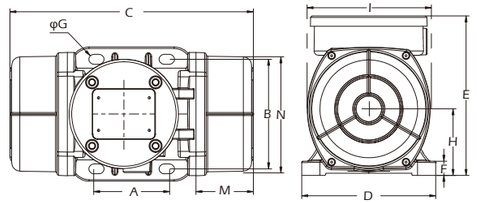


Model	Voltage	Current	Input power	Force	Weight	Size
	(V)	A.Max(Y)	(KW)	(KN)	(KG)	
MV40/3	220/380	0.13	0.05	0.3	2.4	size1
MV60/3	220/380	0.16	0.08	0.7	4.6	size10
MV100/3	220/380	0.19	0.1	1	4.7	size10
MV200/3	220/380	0.35	0.18	2	6.3	size20
MV202/3	220/380	0.35	0.18	2	6.8	size23
MV300/3	220/380	0.52	0.27	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	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	220/380	9.4	5.5	65	230	size85
MV9000/3	220/380	17.8	10	90	241	size85
MV12000/3	220/380	19	12.5	120	280	size90
MV15000/3	220/380	27.5	18.8	150	340	size90

Special voltage and frequency can be customized



A

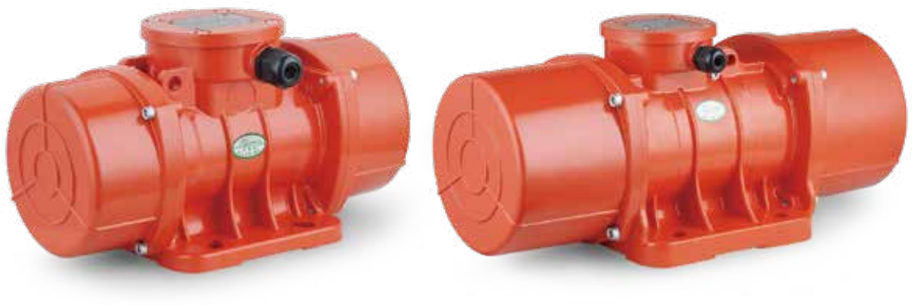


B

Mounting Dimension Unit: mm

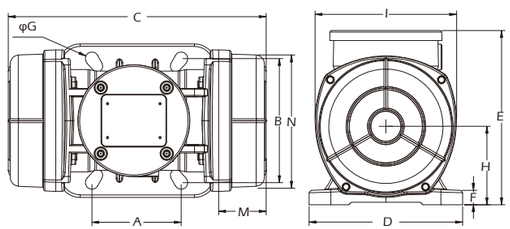
Model	A	B	ØG	C	D	E	F	H	I	L	M	N	Cable gland	Fig
MV40/3	62-74	110	5.5	72.5	10	68	29	34	32.5	21	68	/	M16×1.5	H
MV60/3	62-74 33	106 83-102	6 7	211	130	136	12	48	94	121	45	86	M16×1.5	A
MV100/3	62-74 33	106 83-102	6 7	221	130	136	12	48	94	121	50	86	M16×1.5	A
MV200/3	62-74	106	9	231	131	159	15	64	121	123	54	112	M20×1.5	B
MV202/3	62-74 65 115 135	106 140 135 115	9 13 11 11	218	164	140	25	82	116	159	53	110	M20×1.5	F
MV300/3	80 90	110 125	11 11	253	155	175	15	79	142	163	45	131	M20×1.5	C
MV400/3	124 135	110 115	11 11	273	155	175	15	79	142	163	55	131	M20×1.5	C
MV500/3	105	140	13	334	168	196	22	92	169	178	78	158	M20×1.5	D
MV700/3	105	140	13	334	168	196	22	92	169	178	78	158	M20×1.5	D
MV800/3	120	170	17	321	208	210	22	94	180	205	58	170	M20×1.5	D
MV1200/3	120	170	17	321	208	210	22	94	180	205	58	170	M20×1.5	D
MV1300/3	120	170	17	321	208	210	22	94	180	205	58	170	M20×1.5	D
MV1600/3	140	190	17	418	229	262	30	120	247	220	80	222	M25×1.5	D
MV1800/3	140	190	17	418	229	262	30	120	247	220	80	222	M25×1.5	D
MV2000/3	140	190	17	418	229	262	30	120	247	220	80	222	M25×1.5	D
MV2200/3	140	190	17	418	229	262	30	120	247	220	80	222	M25×1.5	D
MV2300/3	140	190	17	418	229	262	30	120	247	220	80	222	M25×1.5	D
MV3200	155	255	25	538	302	318	35	147	295	273	115	264	M32×1.5	D
MV4000/3	155	255	25	538	302	318	35	147	295	273	115	264	M32×1.5	D
MV5000/3	155	255	25	588	302	318	35	147	295	273	140	264	M32×1.5	D
MV6500/3	200	320	28	624	385	102	40	203	394	364	130	378	M32×1.5	D
MV9000/3	200	320	28	624	385	102	40	203	394	364	130	378	M32×1.5	D
MV12000/3	125	380	39	648	452	415	40	205	394	388	130	378	M32×1.5	E
MV15000/3	125	380	39	648	452	415	40	205	394	388	130	378	M32×1.5	E

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

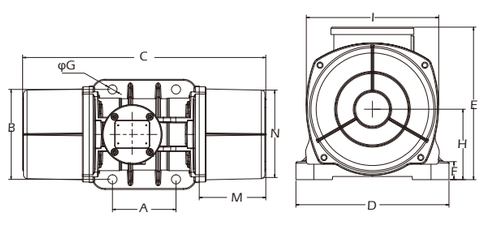


Model	Voltage (V)	Current A.Max(Y)	Input power (KW)	Force (KN)	Weight (KG)	Size
MV40/15	220/380	0.26	0.04	0.3	4.6	size10
MV90/15	220/380	0.31	0.12	0.9	6.8	size20
MV200/15	220/380	0.49	0.16	2	12.8	size30
MV250/15	220/380	0.54	0.18	2.5	12.9	size30
MV300/15	220/380	0.62	0.20	3	13.8	size30
MV400/15	220/380	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	220/380	8.5	5	72	253	size85
MV9000/15	220/380	13.4	7.5	90	269	size85
MV10000/15	220/380	14.4	7.8	100	329	size90
MV11500/15	220/380	15.5	9	116	445	size100
MV14500/15	220/380	18.5	11.5	141	460	size100

Special voltage and frequency can be customized



C



D

Mounting Dimension Unit: mm

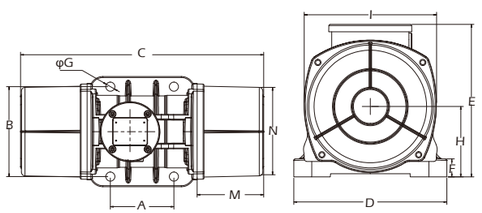
Model	A	B	ØG	C	D	E	F	H	I	L	M	N	Cable gland	Fig
MV40/15	62-74 33	106 83-102	9 7	211	130	136	12	48	94	121	45	86	M16×1.5	A
MV90/15	62-74 65 115 135	106 140 135 115	9 13 11 11	231	131	159	15	64	121	123	54	112	M20×1.5	B
MV200/15	80 90	110 125	11 13	273	154	175	15	79	142	163	70	131	M20×1.5	C
MV250/15	80 90	110 125	11 13	303	154	175	15	79	142	163	70	131	M20×1.5	C
MV300/15	80 90	110 125	11 13	303	154	175	15	79	142	163	70	131	M20×1.5	C
MV400/15	105	140	13	334	168	196	22	92	169	178	78	158	M20×1.5	D
MV500/15	105	140	13	334	168	196	22	92	169	178	78	158	M20×1.5	D
MV700/15	120	170	13	391	208	210	22	94	180	205	93	170	M20×1.5	D
MV800/15	120	170	13	391	208	210	22	94	180	205	93	170	M20×1.5	D
MV1100/15	120	170	17	451	208	210	22	94	180	205	123	170	M20×1.5	D
MV1400/15	140	190	17	448	229	262	30	120	247	220	96	222	M25×1.5	D
MV1700/15	140	190	17	448	229	262	30	120	247	220	96	222	M25×1.5	D
MV2400/15	140	190	17	514	229	262	30	120	247	220	129	222	M25×1.5	D
MV2500/15	155	255	22	522	272	295	40	141	267	250	123	235	M25×1.5	D
MV3000/15	155	255	22	522	272	295	40	141	267	250	123	235	M32×1.5	D
MV3800/15	155	255	23.5	588	302	318	35	147	295	273	140	264	M32×1.5	D
MV4300/15	155	255	23.5	588	302	318	35	147	295	273	140	264	M32×1.5	D
MV5500/15	180	280	26	603	332	360	37	167	345	304	143	310	M32×1.5	D
MV7200/15	200	320	28	624	385	402	40	203	394	360	130	378	M32×1.5	D
MV9000/15	200	320	28	624	385	402	40	203	394	360	130	378	M32×1.5	D
MV10000/15	125	380	39	728	452	415	40	205	394	380	170	378	M32×1.5	E
MV11500/15	140	440	45	890	530	484	37	232	446	470	210	424	M32×1.5	E
MV14500/15	140	440	45	890	530	484	37	232	446	470	210	424	M32×1.5	E

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

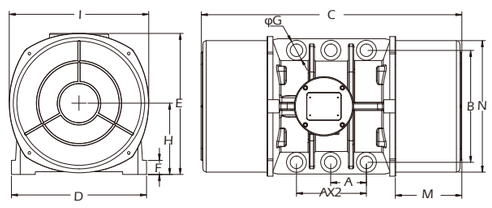


Model	Voltage (V)	Current A.Max(Y)	Input power (KW)	Force (KN)	Weight (KG)	Size
MV50/1	220/380	0.38	0.12	0.5	13.1	size30
MV100/1	220/380	0.42	0.12	1	13.8	size30
MV200/1	220/380	0.48	0.18	1.8	21.0	size40
MV300/1	220/380	0.67	0.35	3	29.1	size50
MV400/1	220/380	0.78	0.37	4	33.3	size50
MV500/1	220/380	1.2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

Special voltage and frequency can be customized



D



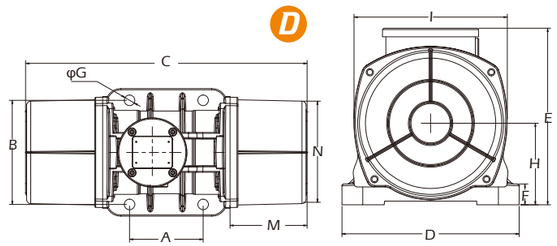
E

Mounting Dimension Unit: mm

Model	A	B	ØG	C	D	E	F	H	I	L	M	N	Cable gland	Fig
MV50/1	80	110	11	273	154	175	15	79	142	163	55	131	M20×1.5	C
	90	125	11											
MV100/1	80	110	11	303	154	175	15	79	142	163	70	131	M20×1.5	C
	90	125	11											
MV200/1	105	140	13	334	168	196	22	92	169	178	78	158	M20×1.5	D
MV300/1	120	170	17	391	208	210	22	94	180	205	93	170	M20×1.5	D
MV400/1	120	170	17	451	208	210	22	94	180	205	123	170	M20×1.5	D
MV500/1	120	170	17	451	208	210	22	94	180	205	123	170	M20×1.5	D
MV800/1	140	190	17	448	229	262	30	120	247	220	96	222	M25×1.5	D
MV1100/1	140	190	17	514	229	262	30	120	247	220	129	222	M25×1.5	D
MV1400/1	140	190	17	562	229	262	30	120	247	220	154	222	M25×1.5	D
MV1500/1	140	190	17	562	229	262	30	120	247	220	154	222	M25×1.5	D
MV1600/1	140	190	17	562	229	262	30	120	247	220	154	222	M25×1.5	D
MV1620/1	155	225	22	556	272	295	40	141	267	250	140	235	M20×1.5	D
MV2100/1	155	225	22	650	272	295	40	141	267	250	200	235	M20×1.5	D
MV2600/1	155	255	23.5	708	302	318	35	147	295	273	200	264	M32×1.5	D
MV3000/1	155	255	23.5	708	302	318	35	147	295	273	200	264	M32×1.5	D
MV3800/1	180	280	26	683	332	354	35	170	330	317	183	311	M32×1.5	D
MV4700/1	180	280	26	733	332	354	35	170	330	317	208	311	M32×1.5	D
MV5200/1	200	320	28	704	385	402	40	203	394	364	170	378	M32×1.5	D
MV6500/1	200	320	28	704	385	402	40	203	394	364	170	378	M32×1.5	D
MV8000/1	200	320	28	774	385	402	40	203	394	364	205	378	M32×1.5	D
MV9000/1	200	320	28	774	385	402	40	203	394	364	205	378	M32×1.5	D
MV10000/1	125	380	39	908	452	415	40	205	394	388	260	378	M32×1.5	E
MV13001/1	125	380	39	908	452	415	40	205	394	388	260	378	M32×1.5	E
MV15000/1	140	480	45	980	570	542	48	268	510	560	210	490	M32×1.5	E
MV17500/1	140	480	45	1060	570	542	48	268	510	560	250	490	M32×1.5	E
MV19500/1	140	480	45	1060	570	542	48	268	510	560	250	490	M32×1.5	E
MV22000/1	140	520	45	1130	610	594	42	297	560	560	285	530	M32×1.5	E
MV25000/1	140	520	45	1130	610	594	42	297	560	560	285	530	M32×1.5	E

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





Model	Voltage	Current	Input power	Force	Weight	Size
	(V)	A.Max(Y)	(KW)	(KN)	(KG)	
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

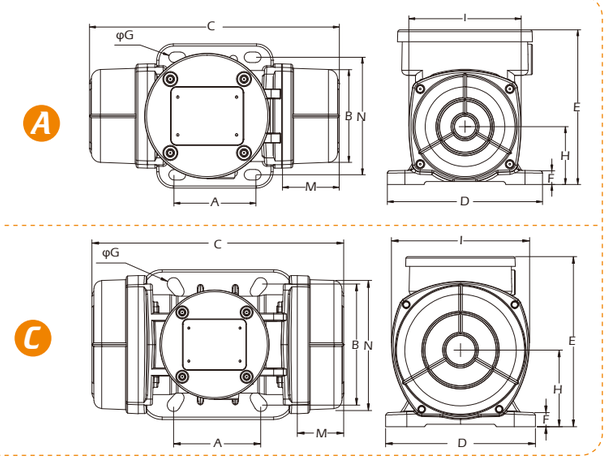
*Special voltage and frequency can be customized

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

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





Mounting Dimension Unit: mm

Model	Voltage	Current	Input power	Force	Weight	Size
	(V)	A.Max	(KW)	(KN)	(KG)	
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

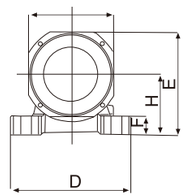
Mounting Dimension Unit: mm

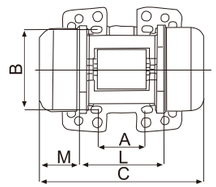
Model	A	B	C	D	E	F	ØG	H	I	L	M	N	Cable gland	Fig
MV60/3M	62-74	106	211	130	136	12	9	48	94	121	45	86	M16×1.5	A
MV100/3M	62-74	106	221	130	136	12	9	48	94	121	50	86	M16×1.5	A
MV200/3M	62-74	106	231	130	159	15	9	64	120	123	54	112	M20×1.5	B
MV300/3M	90	125	255	155	177	14	13	79	142	163	45	132	M20×1.5	C
MV400/3M	90	125	275	155	177	14	13	79	142	163	55	132	M20×1.5	C

DC CURRENT 12V 24V 3000RPM



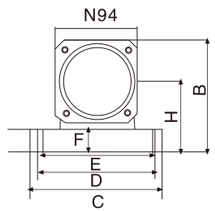
F

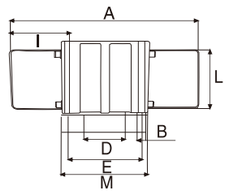






G





Model	Voltage	Current	Input power	Force		RPM	Weight	Size
	(V)	(A)	(kW)	(kg)	(kN)		(kg)	
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
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*

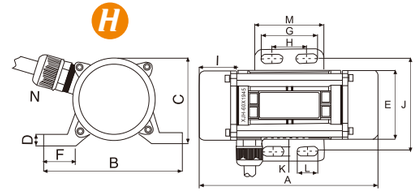
Mounting Dimension Unit: mm

Model	A	B	C	D	E	F	ØG	H	I	L	M	N	Cable gland	Fig
MV50DC-24	62-74	106	211	130	136	12	9	48	94	121	45	86	M16×1.5	A
MV50DC-12	62-74	106	211	130	136	12	9	48	94	121	45	86	M16×1.5	A
MV200DC-24	62-74	106	218	164	140	25	9	82	116	123	53	110	M20×1.5	F
MV200DC-12	62-74	106	218	164	140	25	9	82	116	123	53	110	M20×1.5	F
ZF18-50D-12	282.5	127.5	161	60 115	140 135	27	13	80.5	88.75	88.7	137	94	M20×1.5	G
ZF18-50D-24	282.5	127.5	161	60 115	140 135	27	13	80.5	88.75	88.7	137	94	M20×1.5	G

MICRO VIBRATION MOTOR (ALUMINIUM)



H



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

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

Mounting Dimension Unit: mm

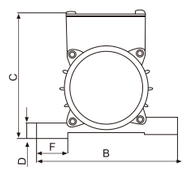
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	153	110	65	10	68	33	55	28	31	91.5	9	21	55	M-16
2	170	110	72.5	10	68	29	55	34	32.5	91.5	9	21	68	M-16

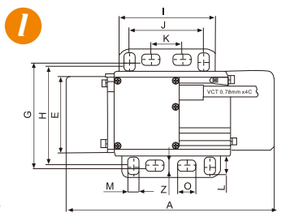
MICRO VIBRATION MOTOR (STAINLESS STEEL)





I





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

Model	Voltage	Current	Input power	RPM		Force	Size
	(V)	(A)	(kW)	50Hz	60Hz	(kg)	
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

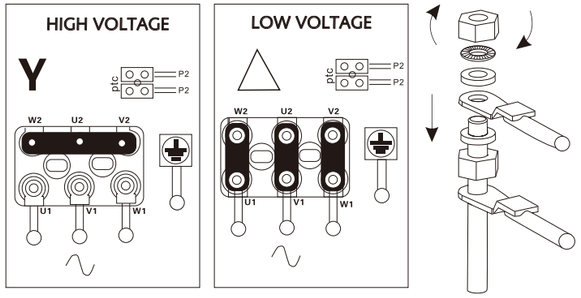
Model	Voltage	Current	Input power	RPM		Force	Size
	(V)	(A)	(kW)	50Hz	60Hz	(kg)	
MV40/2S-3	380/220	0.121/0.152	0.04	3000	3600	46	size3

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

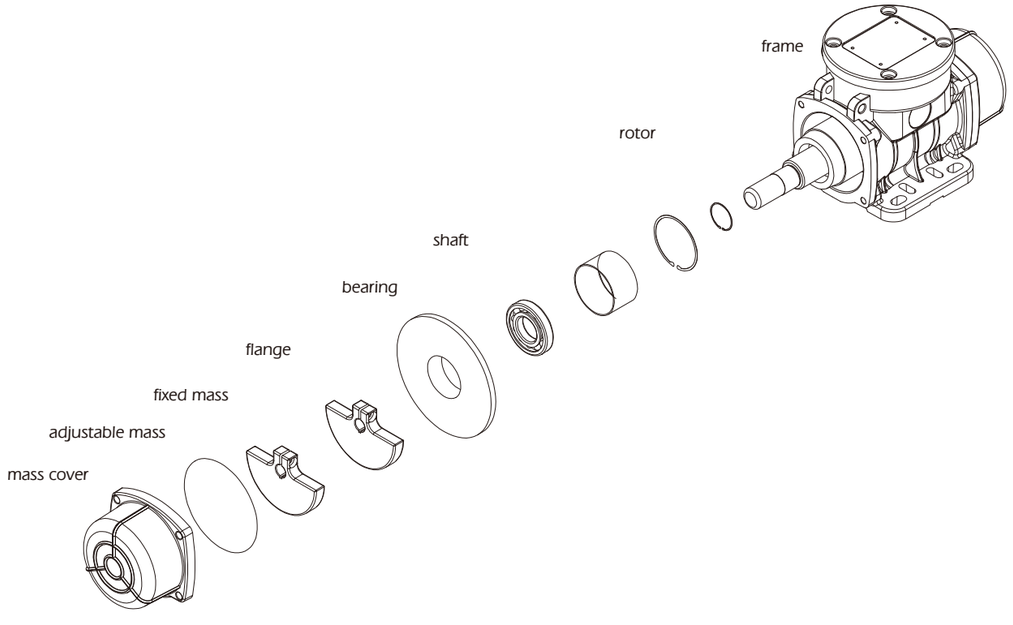
INSTALLATION

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



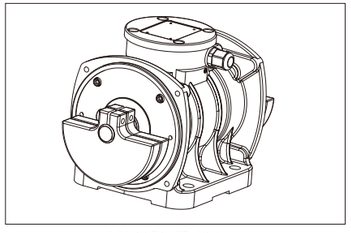
OVERLOAD PROTECTION

All electic 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.

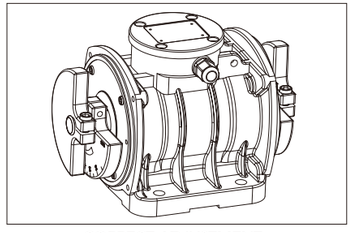


CENTRIFUGAL FORCE ADJUSTMENT

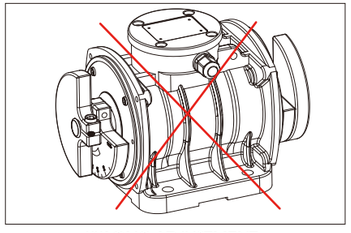
ADJUSTABLE MASSES - TYPE A



MASSES AT 100%

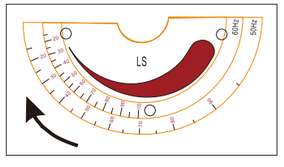


CORRECT ADJUSTMENT

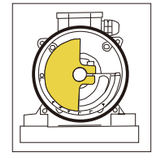


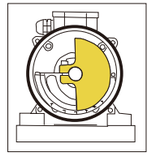
WAONG ADJUSTMENT

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

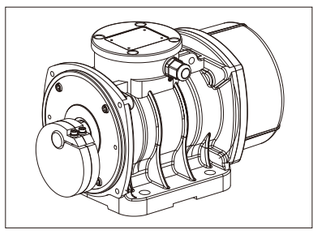


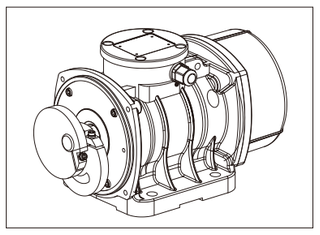
Rotate the masses in the opposite direction to the cable gland.





ADJUSTABLE MASSES - TYPE B

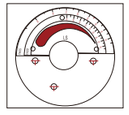




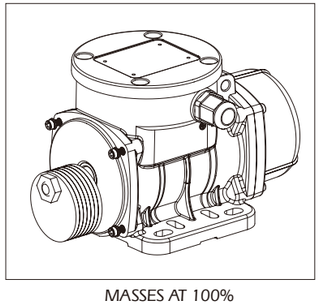
The notch in the mass indicates the degree ofadjustment.



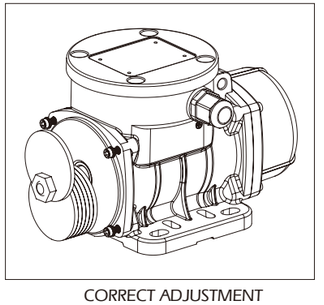
Rotate the mass following the design on the plate: from the thicker tip towards the thin tip



ADJUSTABLE MASSES - TYPE C (BLADE MASSES)



MASSES AT 100%



CORRECT ADJUSTMENT

! 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