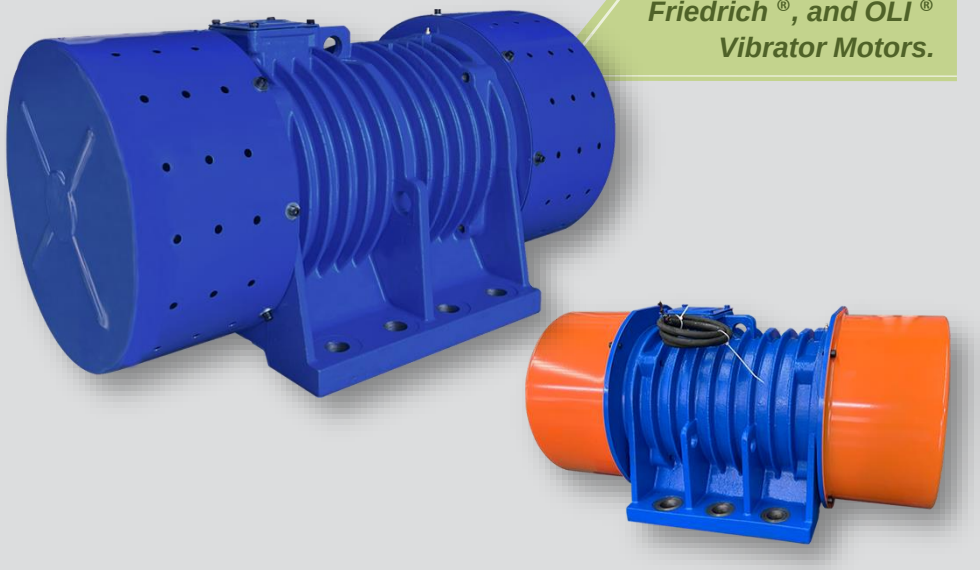
MV

Perfect Replacement for Italvibras ®, Friedrich ®, and OLI ® Vibrator Motors.



The MV series, the standard line of GMX vibrator motors, was jointly developed in 1995 in collaboration with Vimarc, one of the world's earliest manufacturers of vibrator motors, based in the Netherlands.

Designed for vibrating equipment manufacturers across various industrial sectors, this series offers the most extensive range on the market, delivering centrifugal forces of up to 400 kN.

Technical features

Power supply
Three-phase voltage from 220V to 690V, 50Hz or 60Hz.

Polarity
2, 4, 6 and 8 standard poles.

Centrifugal force
Extended range up to 400 kN, with adjustable centrifugal force achieved by changing the position of the eccentric weights.

Functioning
Continuous operation (S1) is supported at maximum centrifugal force and electric power.

Mechanical protection
IP65.

Insulation class
Class F (155°C), class H (180°C) on request.

Ambient temperature
From -20°C to +40°C.

Vibrator thermal protection
On request, standard PTC thermistor heat detectors rated at 130°C or other temperature.

Casing and bearing flange
In spheroidal cast iron for all sizes.

Bearings
Custom-designed single-row cylindrical roller bearings with large clearance effectively balance motor heat dissipation and vibration resistance. These bearings provide a theoretical lifespan of up to 20,000 hours. SKF and NSK bearings are also available upon request.

Lubrication
All vibrators are pre-lubricated at the factory and require no additional lubrication at start-up. Small models are maintenance-free and do not require regreasing throughout their lifetime.

Windings
Special windings are designed for low energy consumption and exceptionally high tightening torque, enabling the motors to accelerate rapidly to nominal speed and achieve quick synchronization.

Eccentric weights
Allow adjustment of the centrifugal force from 0 to 100% according to the graduated scale on the eccentric weights.
(Standard supply: setting at 80%)

Available on request
- Stainless steel covers for eccentric weights;
- Customizable fixing holes.

Testing
Each unit undergoes a rigorous dynamic test with eccentric weights before leaving the factory.

CE

Compliance with the applicable European Union directives.

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MV

2 poles - 3,000rpm / 50Hz / 380V

Type	MECHANICAL SPECIFICATIONS				ELECTRICAL SPECIFICATIONS	
	Centrifugal Force		Static Moment	Weight	Input Power	Nominal Current
	[kN]	[kg]	[kgmm]	[kg]	[kW]	[A]
MV 150/3	1.5	153	15	16	0.15	0.39
MV 250/3	2.5	255	25	16	0.25	0.59
MV 500/3	5	510	51	26	0.40	1.10
MV 800/3	8	815	81	27	0.75	1.75
MV 1000/3	10	1019	101	39	0.90	2.10
MV 1500/3	15	1529	152	42	1.30	3.10
MV 1600/3	16	1631	162	43	1.50	3.62
MV 2000/3	20	2039	203	55	1.70	4.12
MV 3000/3	30	3058	304	85	2.00	4.88
MV 4000/3	40	4077	406	119	3.00	6.90
MV 5000/3	50	5097	507	180	3.70	8.95
MV 6000/3	60	6116	609	181	4.20	10.35
MV 7500/3	75	7645	761	192	5.50	13.20
MV 10000/3	100	10194	1014	246	6.50	15.10

To convert kg into Newton: N =9.81•kg

Working moment = 2 x static moment

MV

2 poles - 3,000rpm / 50Hz / 380V

Type		DIMENSIONAL SPECIFICATIONS (mm)													
	Fig.	L	M	N	A	B	ØG	N° Holes	C	D	E	F	H	K	Hexagon Screws
MV 150/3	A	260	175	165	90	130	13	4	130	160	16	30	80	140	M12
MV 250/3	A	260	175	165	90	130	13	4	130	160	16	30	80	140	M12
MV 500/3	A	320	215	220	110	150	18	4	170	190	20	40	100	180	M16
MV 800/3	A	380	215	220	110	150	18	4	170	190	20	40	100	180	M16
MV 1000/3	A	420	252	260	120	170	18	4	200	210	22	45	120	216	M16
MV 1500/3	A	420	252	260	120	170	18	4	200	210	22	45	120	216	M16
MV 1600/3	A	430	290	290	140	190	18	4	210	240	25	50	140	255	M16
MV 2000/3	A	430	290	290	140	190	18	4	210	240	25	50	140	255	M16
MV 3000/3	A	490	330	330	155	225	22	4	260	280	28	60	160	300	M20
MV 4000/3	A	590	355	360	155	255	26	4	290	310	30	70	170	315	M24
MV 5000/3	B	670	410	410	110	280	26	6	350	340	30	80	200	370	M24
MV 6000/3	B	670	410	410	110	280	26	6	350	340	30	80	200	370	M24
MV 7500/3	B	670	410	420	110	320	32	6	360	390	30	90	200	370	M30
MV 10000/3	B	670	410	420	110	320	32	6	360	390	30	90	200	370	M30

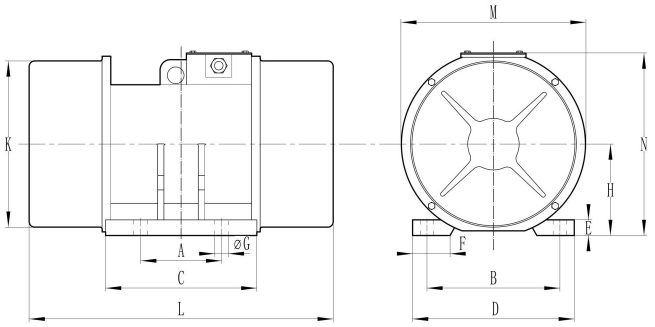

Fig. A

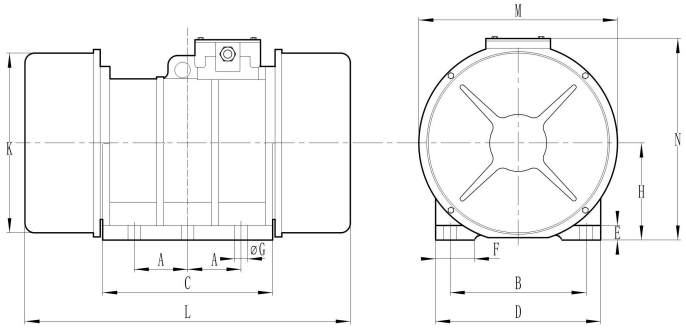

Fig. B

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MV

4 poles - 1,500rpm / 50Hz / 380V

Type	MECHANICAL SPECIFICATIONS				ELECTRICAL SPECIFICATIONS	
	Centrifugal Force		Static Moment	Weight	Input Power	Nominal Current
	[kN]	[kg]	[kgmm]	[kg]	[kW]	[A]
MV 250/15	3	255	101	17	0.10	0.36
MV 500/15	5	510	203	29	0.20	0.66
MV 800/15	8	815	325	32	0.40	1.16
MV 1000/15	10	1019	406	42	0.50	1.45
MV 1500/15	15	1529	609	51	0.65	1.85
MV 1600/15	16	1631	649	52	0.75	1.92
MV 2000/15	20	2039	811	61	1.10	2.85
MV 3000/15	30	3058	1217	92	1.50	3.81
MV 4000/15	40	4077	1623	127	2.20	5.10
MV 5000/15	50	5097	2028	192	2.50	6.33
MV 6000/15	60	6116	2434	208	3.00	7.59
MV 7000/15	70	7136	2840	216	3.70	9.81
MV 7500/15	75	7645	3043	236	4.00	10.56
MV 8500/15	85	8665	3448	245	5.50	13.20
MV 10000/15	100	10194	4057	258	6.50	13.96
MV 12000/15	120	12232	4868	280	8.00	18.89
MV 14000/15	140	14271	5680	305	9.50	22.50
MV 16000/15	160	16310	6491	366	10.00	23.75
MV 18000/15	180	18349	7303	382	12.00	26.60

To convert kg into Newton: N =9.81•kg

Working moment = 2 x static moment

MV

4 poles - 1,500rpm / 50Hz / 380V

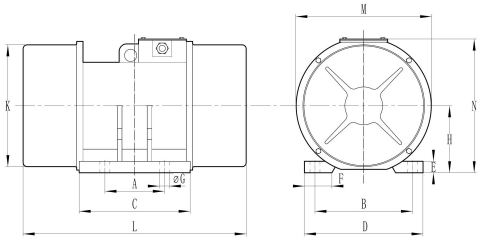

Fig. A

Type			DIMENSIONAL SPECIFICATIONS (mm)													
		Fig.	L	M	N	A	B	ØG	N° Holes	C	D	E	F	H	K	Hexagon Screws
MV	250/15	A	290	175	165	90	130	13	4	130	160	16	30	80	140	M12
MV	500/15	A	320	215	220	110	150	18	4	170	190	20	40	100	180	M16
MV	800/15	A	380	215	220	110	150	18	4	170	190	20	40	100	180	M16
MV	1000/15	A	420	252	260	120	170	18	4	200	210	22	45	120	216	M16
MV	1500/15	A	420	252	260	120	170	18	4	200	210	22	45	120	216	M16
MV	1600/15	A	430	290	290	140	190	18	4	210	240	25	50	140	255	M16
MV	2000/15	A	430	290	290	140	190	18	4	210	240	25	50	140	255	M16
MV	3000/15	A	490	330	330	155	225	22	4	260	280	28	60	160	300	M20
MV	4000/15	A	590	355	360	155	255	26	4	290	310	30	70	170	315	M24
MV	5000/15	B	670	410	410	110	280	26	6	350	340	30	80	200	370	M24
MV	6000/15	B	670	410	410	110	280	26	6	350	340	30	80	200	370	M24
MV	7000/15	B	670	410	410	110	280	26	6	350	340	30	80	200	370	M24
MV	7500/15	B	670	410	420	110	320	32	6	360	390	30	90	200	370	M30
MV	8500/15	B	670	410	420	110	320	32	6	360	390	30	90	200	370	M30
MV	10000/15	B	840	455	450	125	380	38	6	410	460	35	100	220	412	M36
MV	12000/15	B	840	455	450	125	380	38	6	410	460	35	100	220	412	M36
MV	14000/15	C	940	550	520	118	460	38	8	490	550	38	120	260	480	M36
MV	16000/15	C	940	550	520	118	460	38	8	490	550	38	120	260	480	M36
MV	18000/15	C	940	550	520	118	460	38	8	490	550	38	120	260	480	M36

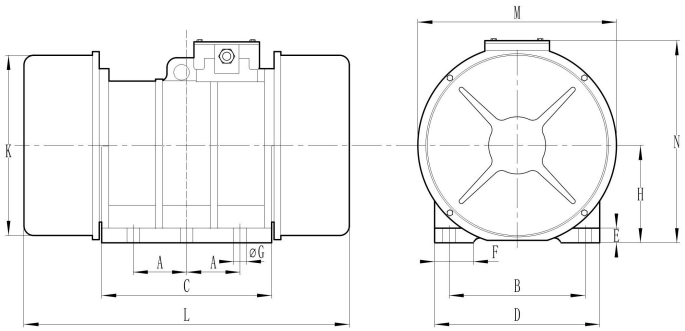

Fig. B

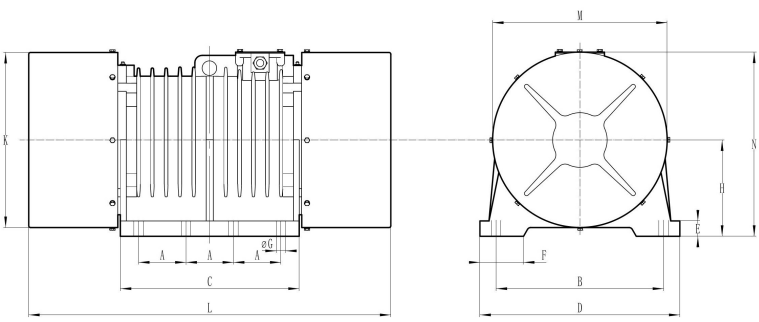

Fig. C

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MV

6 poles - 1,000rpm / 50Hz / 380V

Type	MECHANICAL SPECIFICATIONS				ELECTRICAL SPECIFICATIONS	
	Centrifugal Force		Static Moment	Weight	Input Power	Nominal Current
	[kN]	[kg]	[kgmm]	[kg]	[kW]	[A]
MV 250/1	2.5	255	228	29	0.20	0.69
MV 400/1	4	408	365	34	0.37	1.12
MV 500/1	5	510	456	36	0.40	1.21
MV 800/1	8	815	730	47	0.60	1.76
MV 1000/1	10	1019	913	55	0.75	2.21
MV 1600/1	16	1631	1461	75	1.10	3.01
MV 2000/1	20	2039	1826	102	1.50	3.81
MV 2500/1	25	2548	2282	107	1.90	4.82
MV 3000/1	30	3058	2738	139	2.20	5.51
MV 4000/1	40	4077	3651	158	3.00	7.18
MV 5000/1	50	5097	4564	226	3.70	9.35
MV 6000/1	60	6116	5477	240	4.50	11.20
MV 7000/1	70	7136	6390	268	5.20	12.90
MV 7500/1	75	7645	6846	295	5.50	13.36
MV 8500/1	85	8665	7759	307	6.50	15.79
MV 10000/1	100	10194	9128	408	7.50	18.10
MV 12000/1	120	12232	10954	465	9.50	22.30
MV 14000/1	140	14271	12779	659	10.00	23.60
MV 16000/1	160	16310	14605	680	12.00	27.60
MV 18000/1	180	18349	16431	776	14.00	32.20
MV 20000/1	200	20387	18256	795	15.00	34.80
MV 22000/1	220	22426	20082	803	17.00	39.10
MV 24000/1	240	24465	21908	809	18.00	41.30
MV 26000/1	260	26504	23733	855	20.00	45.70
MV 30000/1	300	30581	27384	1280	23.00	52.50
MV 33000/1	330	33639	30123	1300	24.00	56.50
MV 36000/1	360	36697	32861	1325	26.00	61.86
MV 40000/1	400	40775	36513	1380	28.00	65.73

To convert kg into Newton: N =9.81•kg

Working moment = 2 x static moment

MV

6 poles - 1,000rpm / 50Hz / 380V

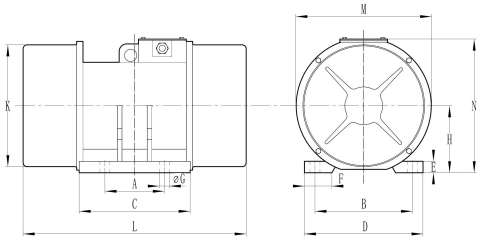

Fig. A

Type			DIMENSIONAL SPECIFICATIONS (mm)													
		Fig.	L	M	N	A	B	ØG	N° Holes	C	D	E	F	H	K	Hexagon Screws
MV	250/1	A	320	215	220	110	150	18	4	170	190	20	40	100	180	M16
MV	400/1	A	380	215	220	110	150	18	4	170	190	20	40	100	180	M16
MV	500/1	A	420	215	220	110	150	18	4	170	190	20	40	100	180	M16
MV	800/1	A	420	252	260	120	170	18	4	200	210	22	45	120	216	M16
MV	1000/1	A	430	290	290	140	190	18	4	210	240	25	50	140	255	M16
MV	1600/1	A	490	290	290	140	190	18	4	210	240	25	50	140	255	M16
MV	2000/1	A	500	330	330	155	225	22	4	260	280	28	60	160	300	M20
MV	2500/1	A	540	330	330	155	225	22	4	260	280	28	60	160	300	M20
MV	3000/1	A	590	355	360	155	255	26	4	290	310	30	70	170	315	M24
MV	4000/1	A	630	355	360	155	255	26	4	290	310	30	70	170	315	M24
MV	5000/1	B	670	410	410	110	280	26	6	350	340	30	80	200	370	M24
MV	6000/1	B	750	410	410	110	280	26	6	350	340	30	80	200	370	M24
MV	7000/1	B	750	410	410	110	280	26	6	350	340	30	80	200	370	M24
MV	7500/1	B	770	410	420	110	320	32	6	360	390	30	90	200	370	M30
MV	8500/1	B	810	410	420	110	320	32	6	360	390	30	90	200	370	M30
MV	10000/1	B	840	455	450	125	380	38	6	410	460	35	100	220	412	M36
MV	12000/1	B	920	455	450	125	380	38	6	410	460	35	100	220	412	M36
MV	14000/1	C	940	550	520	118	460	38	8	490	550	38	120	260	480	M36
MV	16000/1	C	980	550	520	118	460	38	8	490	550	38	120	260	480	M36
MV	18000/1	C	1050	580	560	120	520	45	8	530	610	40	125	270	510	M42
MV	20000/1	C	1060	580	560	120	520	45	8	530	610	40	125	270	510	M42
MV	22000/1	C	1080	580	560	120	520	45	8	530	610	40	125	270	510	M42
MV	24000/1	C	1110	580	560	120	520	45	8	530	610	40	125	270	510	M42
MV	26000/1	C	1250	650	640	146	570	51	8	640	680	55	150	320	585	M48
MV	30000/1	C	1350	650	640	146	570	51	8	640	680	55	150	320	585	M48
MV	33000/1	C	1350	650	640	146	570	51	8	640	680	55	150	320	585	M48
MV	36000/1	C	1450	650	640	146	570	51	8	640	680	55	150	320	585	M48
MV	40000/1	C	1490	660	680	146	570	51	8	690	680	58	150	350	640	M48

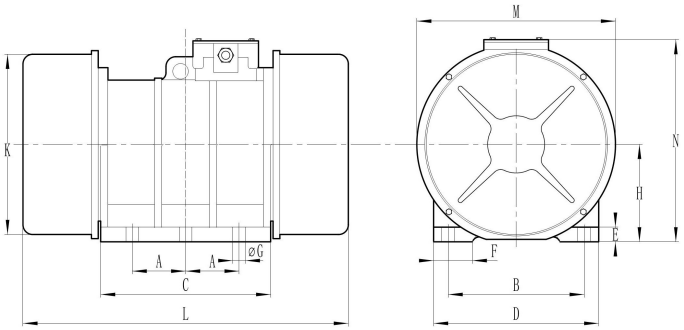

Fig. B

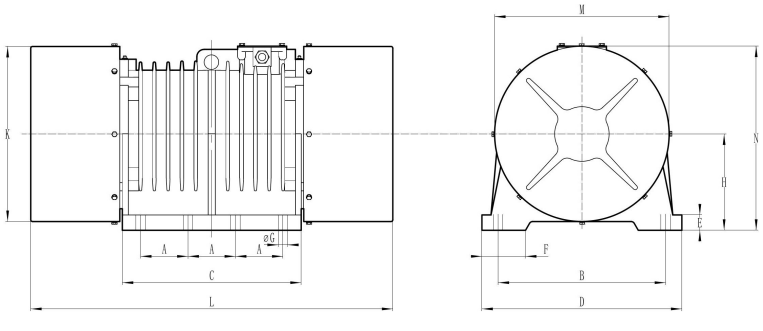

Fig. C

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MV

8 poles - 750rpm / 50Hz / 380V

Type	MECHANICAL SPECIFICATIONS				ELECTRICAL SPECIFICATIONS	
	Centrifugal Force		Static Moment	Weight	Input Power	Nominal Current
	[kN]	[kg]	[kgmm]	[kg]	[kW]	[A]
MV 1000/075	10	1019	1623	74	0.75	2.73
MV 1600/075	16	1631	2596	121	1.50	4.11
MV 2000/075	20	2039	3246	158	2.20	6.02
MV 3000/075	30	3058	4868	213	3.00	8.06
MV 4000/075	40	4077	6491	255	3.20	8.83
MV 5000/075	50	5097	8114	317	4.20	11.20
MV 7500/075	75	7645	12171	470	6.50	15.90
MV 10000/075	100	10194	16228	544	8.50	21.80
MV 12000/075	120	12232	19473	608	10.00	24.60
MV 14000/075	140	14271	22719	736	12.00	29.80
MV 16000/075	160	16310	25965	784	14.00	38.10
MV 18000/075	180	18349	29210	920	15.00	39.38
MV 20000/075	200	20387	32456	968	16.00	46.30
MV 24000/075	240	24465	38947	1145	18.00	50.60
MV 26000/075	260	26504	42192	1176	19.00	51.10
MV 30000/075	300	30581	48684	1216	21.00	52.60
MV 32000/075	320	32620	51929	1265	22.00	53.75
MV 33000/075	330	33639	53552	1265	23.00	60.53
MV 40000/075	400	40775	64911	1425	26.00	66.85

To convert kg into Newton: N =9.81•kg

Working moment = 2 x static moment

MV

8 poles - 750rpm / 50Hz / 380V

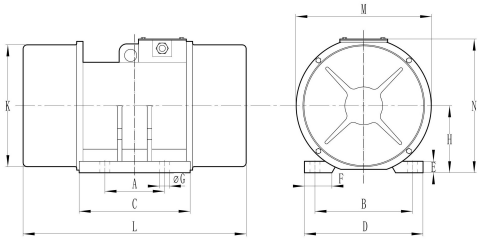

Fig. A

Type		DIMENSIONAL SPECIFICATIONS (mm)														
		Fig.	L	M	N	A	B	ØG	N° Holes	C	D	E	F	H	K	Hexagon Screws
MV	1000/075	A	490	290	290	140	190	18	4	210	240	25	50	140	255	M16
MV	1600/075	A	540	330	330	155	225	22	4	260	280	28	60	160	300	M20
MV	2000/075	A	630	335	360	155	255	26	4	290	310	30	70	170	315	M24
MV	3000/075	B	670	410	410	110	280	26	6	350	340	30	80	200	370	M24
MV	4000/075	B	770	410	410	110	280	26	6	350	340	30	80	200	370	M24
MV	5000/075	B	810	410	420	110	320	32	6	360	390	30	90	200	370	M30
MV	7500/075	B	920	455	450	125	380	38	6	410	460	35	100	220	412	M36
MV	10000/075	C	960	550	520	118	460	38	8	490	550	38	120	260	480	M36
MV	12000/075	C	1030	550	520	118	460	38	8	490	550	38	120	260	480	M36
MV	14000/075	C	1090	580	560	120	520	45	8	530	610	40	125	270	510	M42
MV	16000/075	C	1200	580	560	120	520	45	8	530	610	40	125	270	510	M42
MV	18000/075	C	1210	580	560	120	520	45	8	530	610	40	125	270	510	M42
MV	20000/075	C	1230	580	560	120	520	45	8	530	610	40	125	270	510	M42
MV	24000/075	C	1350	650	640	146	570	51	8	640	680	55	150	320	585	M48
MV	26000/075	C	1360	650	640	146	570	51	8	640	680	55	150	320	585	M48
MV	30000/075	C	1480	650	640	146	570	51	8	640	680	55	150	320	585	M48
MV	32000/075	C	1490	650	640	146	570	51	8	640	680	55	150	320	585	M48
MV	33000/075	C	1510	650	640	146	570	51	8	640	680	55	150	320	585	M48
MV	40000/075	C	1550	660	680	146	570	51	8	690	680	58	150	350	640	M48

Fig. B

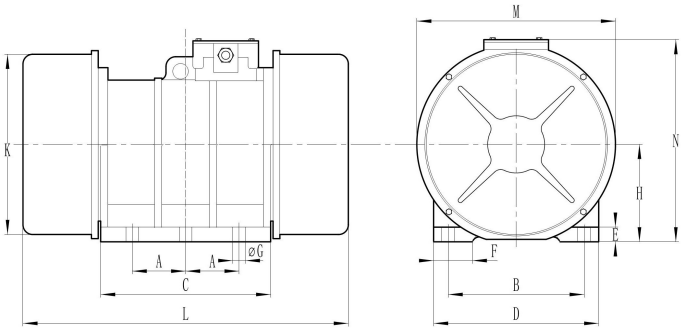

Fig. C