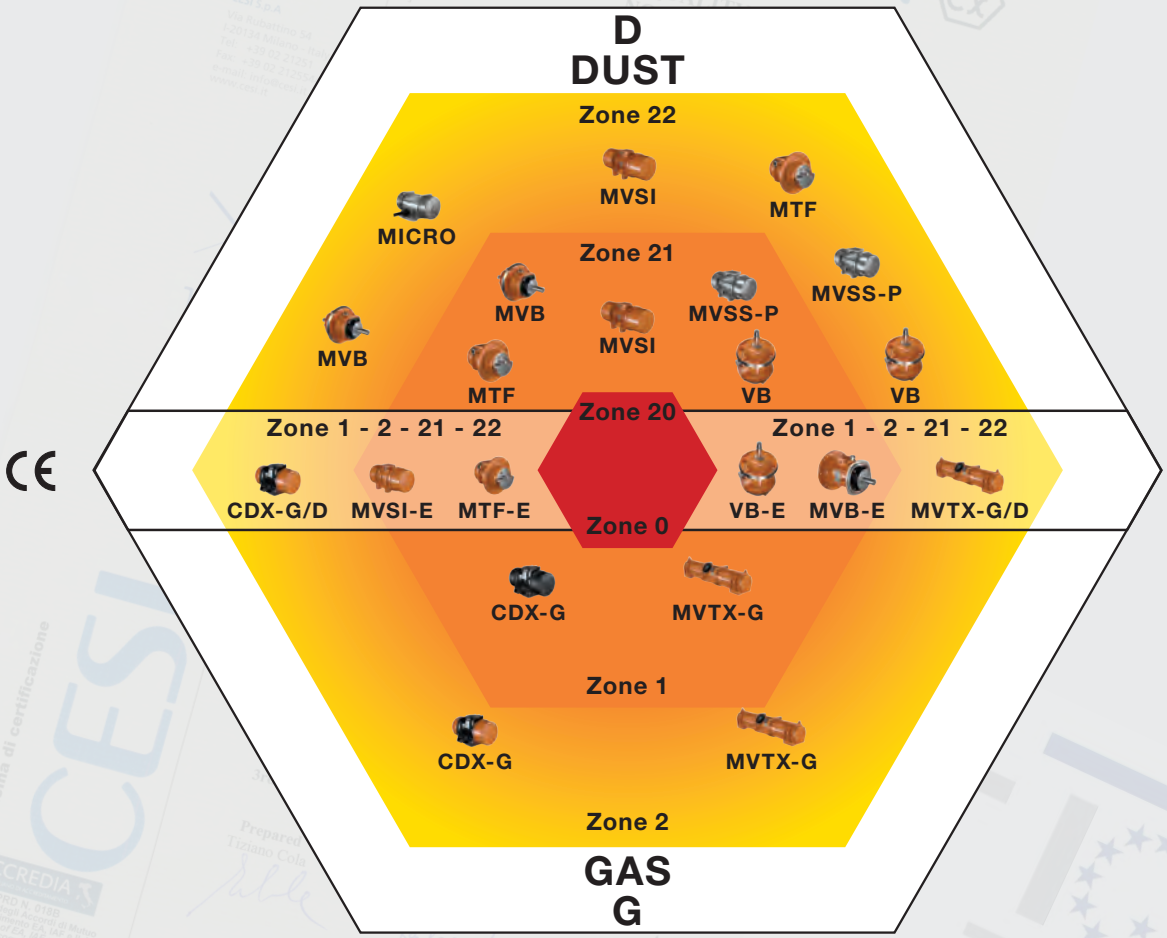
General Catalogue US019

italvibras
g.silingardi
USA

INDEX

Italvibras Guide to explosive atmospheres

Zone System



	CERTIFICATE FEATURES	PRODUCTS
ATEX	ATEX II2D – Ex tD A21 IP66 (Ex tb IIIC T…. °C Db)	MVSI, MTF, MVB, MVB-FLC, VB, MVSS-P
	ATEX II2D & II2G – Ex tb IIIC T….°C Db – Ex eb IIC T3/T4 Gb	MVSI-E, M3-E, MTF-E, MVB-E, MVB-E-FLC, VB-E
	ATEX II3D – Ex tc IIIC T100°C Dc	MICRO
	ATEX II2D & II2G – Ex tb IIIC T105°C Db – Ex db IIB 105°C Gb	MVTX-G/D
	ATEX II2G – Ex db IIB …..°C Gb	MVTX-G
IECEx	Ex tb IIIC T…. °C Db	MVSI, MTF, MVB, MVB-FLC, VB, MVSS-P
	Ex tb IIIC T….°C Db – Ex eb IIC T3/T4 Gb	MVSI-E, M3-E, MTF-E, MVB-E, MVB-E-FLC, VB-E
	Ex tb IIIC T120°C Db – Ex db IIB 120°C Gb	CDX-G/D (FS 35-40-50-60-70-80)
	Ex db IIB 160°C Gb	CDX-G (FS 35-40-50-60-70-80)
	Ex tb IIIC T105°C Db – Ex db IIB 105°C Gb	MVTX-G/D
	Ex db IIB …..°C Gb	MVTX-G

ATEX CESI
Production Quality Assurance Notification
Directive 2014/34/UE
CESI 00 ATEX 061 Q

IECEx CESI
IECEx Quality Assessment Report n. IT/CES/QAR08.0003

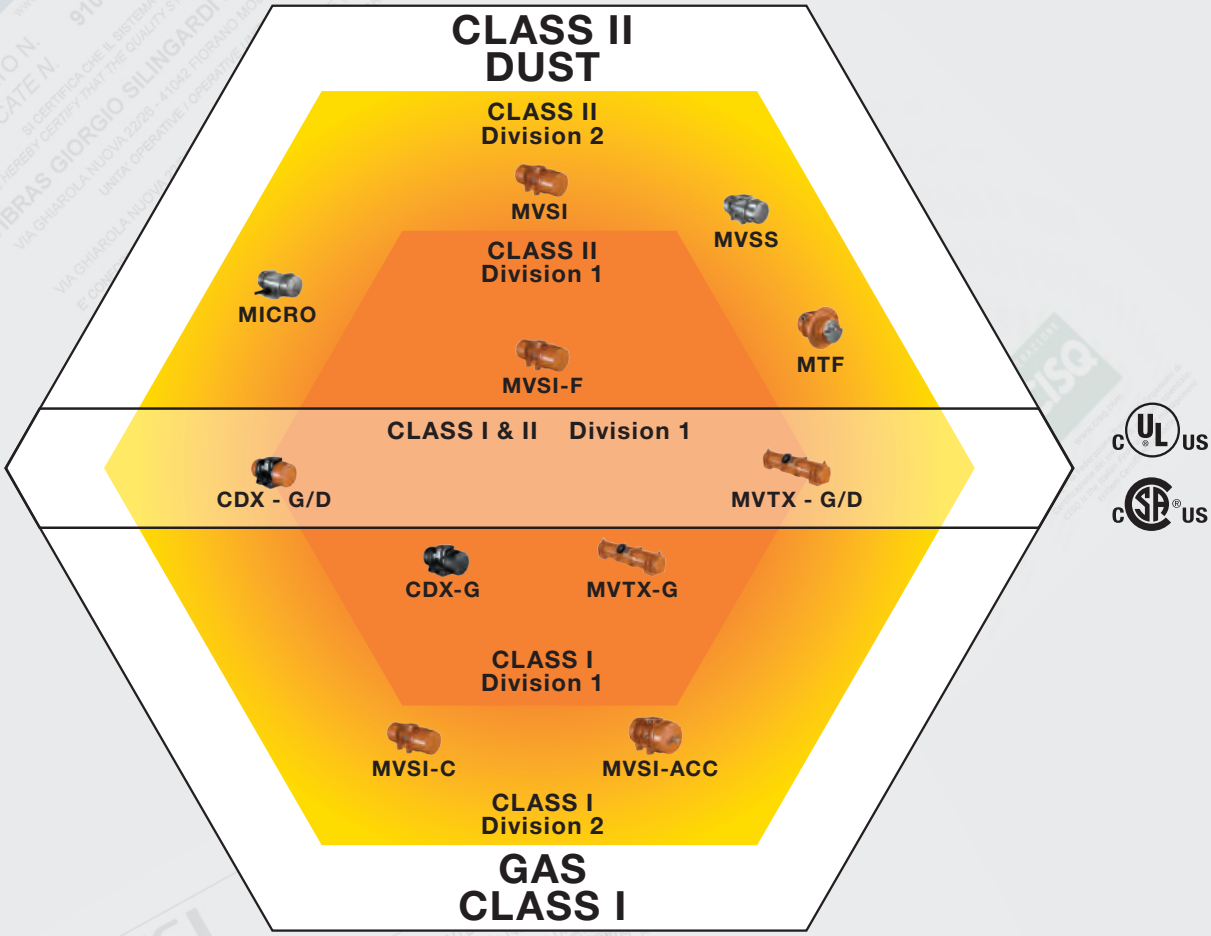
Others certifications:

EAC Ex
Compliance with regulations TR CU 012/2011 (explosive atmospheres for Eurasian Customs Union)

KCs
Compliance with Korean Certification requirements for explosive atmospheres

/ hazardous locations

Class / Division System



	CERTIFICATE FEATURES	PRODUCTS
c UL us	Class I, Div.1, Groups CD. Class II, Div.1, Groups EFG. T4 /T3C	CDX-G/D (FS 35-40-50-60-70-80), MVTX-G/D
	Class I, Div.1, Groups CD. T2C	CDX-G (FS 35-40-50-60-70-80)
	Class I, Div.1, Groups CD. T3 / T3C	MVTX-G
	Class I, Div.1, Groups CD. Class II, Div.1, Groups EFG. T4	CDX-G/D (FS 10-20-30)
c SA us	Class I, Div.2, Groups ABCD. T3C / T3A / T3	MVSI-C, MVSI-TS, MVSI-ACC, MTF-C, MVB-C, VB-C
	Class II, Div.1, Groups EF(T3) & G (T3B).	MVSI-F
	Class II, Div.2, Groups FG (T3B).	MVSI, MTF, MVSS

UL File Number: E129825

SA Legacy Number: 100948
Master Contract: 161432

MVSI

Technical features

Power supply
Three-phase voltage from 24V to 690V, 50Hz or 60Hz or single-phase 100-130V, 60Hz and 200-240V, 50Hz (single-phase types are supplied without capacitor); suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile.

Polarity
2, 4, 6 and 8 standard poles, 10 and 12 poles on request.

Conformity with Standards and Regulations
Low Voltage Directive 2006/95/EC;
ATEX Directive 2014/34/UE; EN/IEC 60034-1, EN/IEC 60079-0, EN/IEC 60079-31,
UL 1004-1, CSA C22.2 No.100, NEMA MG-1.

Functioning
Continual service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information, contact our technical assistance office.

Centrifugal force
Range extended up to 67200 lbs (300 kN), with centrifugal force adjustable by varying eccentric weights position.

Mechanical protection
IP 66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

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

Tropicalization
Standard on all vibrators, with vacuum encapsulation up to gr. AF 33 and 35, with “drop by drop” trickle system for larger sizes.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C). Versions for higher or lower temperatures are available on request.

Vibrator thermal protection
Standard PTC rated thermistor heat detectors 266°F (130°C) from size 70, on request for smaller sizes. On request, thermistors with different temperatures and anti-condensation heaters.

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Terminal box
Large terminal box to facilitate electrical connection.
Special shaped terminals allow for the power supply cable to be secured, whilst protecting it from loosening.

Electric motor
Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to requirements of vibrating machines. Insulated windings using vacuum encapsulating up to sizes AF33 and 35 included; using the “drop by drop” trickle system with class H resin for larger sizes. The rotor is die cast aluminium.

Casing
In high-tensile aluminium alloy up to size 60, in spheroidal cast iron for larger sizes.

Bearing flange
In cast iron (spheroidal or grey). The geometry of the flange transmits the load to the casing uniformly.

Bearings
Custom made with particular geometry, especially designed for Italvibras, suitable to support both high radial and axial loads.

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

Eccentric weights
Allow adjustment of the centrifugal force. This adjustment is realized by a graduated scale, which expresses the centrifugal force as a percentage of the maximum centrifugal force.
A patented system, called ARS, prevents adjustment errors.

The MVSI series represents the line of reference products for manufacturers of vibrating machines and plants operating in many industrial sectors and is made up of the largest range on the market, with centrifugal force values up to 67200 Kgf (300kN).

It is characterized by the continuous technological evolution in view of a continuous improvement in performance.

The MVSI series is designed to guarantee high performance in all conditions of use and environment, on page 14 the various surface treatments available are described.

Category: II2D

Level of protection:

Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)

Temperature class:

see tables

UE certificate:

LCIE 05 ATEX 6163 X

Zones of use:

21, 22

Weight covers
Standard in aluminium alloy, on request stainless steel weight cover in AISI 304 may be available. See also executions on page 14.
Split weight cover are available for many types, see MVSI-SC series.

Painting / Surface coating
Electrostatic surface treatment based on epoxy polyester powder polymerised in oven at 392°F (200°C). Tested in salt spray fro 500 hours.
On request on MVSI series other surface coatings may be available, see page 14.
Available also MVSS series with external components in stainless steel AISI 304, see page 40.

Other mounting bolt patterns are available. For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

Compliance with the applicable European Union directives.

Standard CAN/CSA – C22.2, N°.100-95,
Certificate n° LR 100948
Class 4211 01 - Motors and generators
UL 1004-1 – Rotating Electrical Machines – General Requirements
Class II Div.2, Groups FG (T3B)

II2D (2014/34/UE)
Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
EN 60079-0
EN 60079-31

Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
IEC 60079-0
IEC 60079-31

Version MVSI-F available on request
Class II Div.1, Groups EFG
Standard CAN/CSA – C22.2, UL 1004-1

Version MVSI-C available on request
Class I Div.2, Groups ABCD
Standard CAN/CSA – C22.2

Certification for Eurasian Customs Union
N° TC N RU Д-IT.АЛ33.B.02527
N° TC RU C-IT.ГБ08.B.02190

KOSHA Korea
Certificate n° 11-AVG BO-0359
Ex td A21 IP66

MVSI

2 poles - 3,000/3,600 rpm

Three-phase

DESCRIPTION						MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
					II2D	Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
600311	**MVSI 36-380**	MVSI 3/100-S02	00	•	120°C	1.05	1.05	**268**	**386**	11.4	11.4	0.18	0.18	0.35	0.30	2.68	3.00
600312	**MVSI 36-480**	MVSI 3/200-S02	01	•	120°C	1.76	1.41	**447**	**515**	12.8	12.1	0.18	0.18	0.35	0.30	2.68	3.00
600313	**MVSI 36-660**	MVSI 3/300-S02	10	•	120°C	2.61	1.96	**664**	**717**	19.8	18.9	0.24	0.26	0.60	0.50	3.47	4.20
600314	**MVSI 36-1050**	MVSI 3/500-S02	20	•	120°C	5.04	3.03	**1284**	**1109**	31.5	29.3	0.44	0.53	0.80	0.75	4.21	4.80
600366	**MVSI 36-1500**	MVSI 3/700-S02	20	•	120°C	6.05	4.03	**1540**	**1478**	31.9	30.8	0.44	0.53	0.80	0.75	4.21	4.80
600381	**MVSI 36-1680**	MVSI 3/800-S02	30	•	120°C	6.48	4.86	**1649**	**1782**	43.1	41.8	0.67	0.71	1.10	1.00	3.83	6.00
600513	**MVSI 36-2530**	MVSI 3/1100-S02	35	•	120°C	9.56	6.35	**2431**	**2325**	52.8	50.6	1.1	1.2	1.75	1.75	3.63	4.00
600491	**MVSI 36-2900**	MVSI 3/1300-S08	AF33	•	-	11.1	8.0	**2838**	**2919**	59.4	56.5	1.4	1.4	2.10	1.90	3.96	4.98
600504	**MVSI 36-3500**	MVSI 3/1500-S08	AF33	•	-	12.7	9.6	**3234**	**3509**	55.7	52.8	1.4	1.4	2.10	1.90	3.96	4.98
600502	**MVSI 36-3280**	MVSI 3/1600-S02	50	•	-	13.3	8.9	**3399**	**3263**	70.4	67.1	1.5	1.9	2.30	2.00	4.95	6.12
600503	**MVSI 36-4080**	MVSI 3/1800-S02	50	•	-	15.6	11.1	**3964**	**4077**	72.6	69.3	2.0	2.1	3.30	2.90	4.33	5.50
600256	**MVSI 36-4100**	MVSI 3/2010-S90	AF50	•	135°C	17.8	11.1	**4530**	**4077**	107	102	2.2	2.2	3.50	3.00	4.62	6.00
600257	**MVSI 36-4910**	MVSI 3/2310-S90	AF50	•	135°C	20.0	13.3	**5095**	**4893**	109	104	2.2	2.2	3.50	3.00	4.62	6.00
600470	**MVSI 36-6860**	MVSI 3/3200-S02	AF70	•	-	29.9	18.7	**7605**	**6846**	207	198	4.5	4.6	6.50	5.60	4.46	5.18
600471	**MVSI 36-8240**	MVSI 3/4000-S02	AF70	•	-	33.6	22.4	**8558**	**8217**	211	202	4.5	4.6	6.50	5.60	4.46	5.18
600472	**MVSI 36-11000**	MVSI 3/5000-S02	AF70	•	-	44.8	29.9	**11411**	**10954**	240	231	5.0	5.7	7.60	6.90	5.54	7.10
600276	**MVSI 36-14000**	MVSI 3/6510-S02	90	•	135°C	54.8	38.5	**13985**	**14124**	405	392	6.2	6.1	9.20	8.00	6.45	7.20
600201	**MVSI 36-20000**	MVSI 3/9000-S90	95	-	-	77.8	53.8	**19815**	**19734**	473	462	10.9	10.1	18.0	13.0	4.39	5.23

Single-phase

					II2D	Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	220V 50Hz	115V 60Hz	50Hz	60Hz
600311	**MVSI 36-380**	MVSI 3/100-S02	00	•	120°C	1.05	1.05	**268**	**386**	11.4	11.4	0.15	0.15	0.75	1.52	1.67	2.24
600312	**MVSI 36-480**	MVSI 3/200-S02	01	•	120°C	1.76	1.41	**447**	**515**	12.8	12.1	0.15	0.15	0.75	1.52	1.67	2.24
600313	**MVSI 36-660**	MVSI 3/300-S02	10	•	120°C	2.61	1.96	**664**	**717**	19.8	18.9	0.24	0.27	1.25	2.40	2.48	3.52
600314	**MVSI 36-1050**	MVSI 3/500-S02	20	•	120°C	5.04	3.03	**1284**	**1109**	31.5	29.3	0.46	0.48	2.30	4.50	3.35	4.22
600366	**MVSI 36-1500**	MVSI 3/700-S02	20	•	120°C	6.05	4.03	**1540**	**1478**	31.9	30.8	0.46	0.48	2.30	4.50	3.35	4.22
600381	**MVSI 36-1680**	MVSI 3/800-S02	30	•	120°C	6.48	4.86	**1649**	**1782**	43.1	41.8	0.60	0.68	3.25	7.00	4.00	4.14

* Working moment = 2 x static moment.

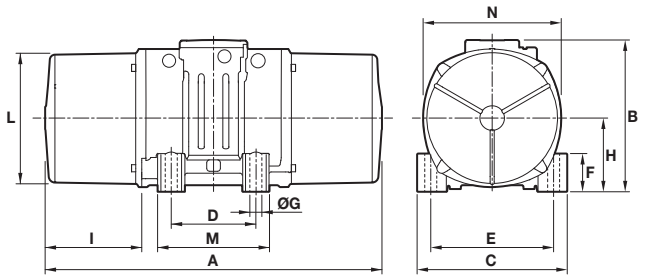


Fig. A

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
MVSI 36-380	**A**	8.31	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	1.81	4.06	3.86	4.61	-	-	M20x1.5
MVSI 36-480	**A**	9.25	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	2.28	4.06	3.86	4.61	-	-	M20x1.5
MVSI 36-660	**A**	10.04	6.73	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	2.87	2.13	5.00	5.04	5.55	-	-	M20x1.5
MVSI 36-1050	**A**	11.34	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	2.56	5.71	5.75	6.30	-	-	M25x1.5
MVSI 36-1500	**A**	11.34	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	2.56	5.71	5.75	6.30	-	-	M25x1.5
MVSI 36-1680	**A**	12.13	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	2.48	6.69	6.85	7.17	-	-	M25x1.5
MVSI 36-2530	**A**	17.13	8.82	8.07	**4.72**	**6.69**	**0.67**	**4**	1.65	4.11	4.63	7.36	6.38	7.99	-	-	M25x1.5
MVSI 36-2900	**A**	14.76	8.52	8.46	**3.94**	**7.09**	**0.67**	**4**	1.85	3.68	4.17	6.69	5.71	7.17	-	-	M25x1.5
MVSI 36-3500	**A**	14.76	8.52	8.46	**3.94**	**7.09**	**0.67**	**4**	1.85	3.68	4.17	6.69	5.71	7.17	-	-	M25x1.5
MVSI 36-3280	**A**	16.93	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	3.90	8.15	7.48	8.86	-	-	M25x1.5
MVSI 36-4080	**A**	16.93	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	3.90	8.15	7.48	8.86	-	-	M25x1.5
MVSI 36-4100	**A**	18.03	9.13	9.06	**5.51**	**7.48**	**0.67**	**4**	1.93	4.09	4.00	7.20	7.09	7.87	-	-	M25x1.5
MVSI 36-4910	**A**	18.03	9.13	9.06	**5.51**	**7.48**	**0.67**	**4**	1.93	4.09	4.00	7.20	7.09	7.87	-	-	M25x1.5
MVSI 36-6860	**A**	22.05	11.42	12.20	**6.10**	**10.04**	**0.98**	**4**	3.54	5.12	5.39	9.37	8.27	9.96	-	-	M25x1.5
MVSI 36-8240	**A**	22.05	11.42	12.20	**6.10**	**10.04**	**0.98**	**4**	3.54	5.12	5.39	9.37	8.27	9.96	-	-	M25x1.5
MVSI 36-11000	**A**	22.05	11.42	12.20	**6.10**	**10.04**	**0.98**	**4**	3.54	5.12	5.39	9.37	8.27	9.96	-	-	M25x1.5
MVSI 36-14000	**A**	26.77	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	6.30	12.99	10.63	13.78	-	-	M32x1.5
MVSI 36-20000	**A**	24.76	15.55	15.43	**7.87**	**12.60**	**1.10**	**4**	3.94	7.56	5.31	13.98	10.63	14.76	-	-	M32x1.5

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
MVSI 36-380	**A**	8.31	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	1.81	4.06	3.86	4.61	10	28	M20x1.5
MVSI 36-480	**A**	9.25	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	2.28	4.06	3.86	4.61	10	35	M20x1.5
MVSI 36-660	**A**	10.04	6.73	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	2.87	2.13	5.00	5.04	5.55	16	25	M20x1.5
MVSI 36-1050	**A**	11.34	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	2.56	5.71	5.75	6.30	12.5	50	M25x1.5
MVSI 36-1500	**A**	11.34	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	2.56	5.71	5.75	6.30	12.5	-	M25x1.5
MVSI 36-1680	**A**	12.13	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	2.48	6.69	6.85	7.17	25	90	M25x1.5

la/ln = ratio between start-up current and maximum current. ** Slot.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

MVSI

4 poles - 1,500/1,800 rpm

Three-phase

DESCRIPTION						MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
						Static moment*		Centrifugal force		Weight		Power Output		Max current		Ia/In	
						in-lbs		lbs		lbs		HP		A			
Code	Type	Type (EU)	SIZE	CSA	II2D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
601340	**MVSI 18-100**	MVSI 15/35-S02	00	•	120°C	1.05	1.05	**67.1**	**96.6**	11.4	11.4	0.05	0.06	0.21	0.20	1.78	1.95
601341	**MVSI 18-180**	MVSI 15/80-S02	01	•	120°C	2.81	1.76	**179**	**161**	13.6	12.8	0.05	0.06	0.21	0.20	1.78	1.95
601366	**MVSI 18-250**	MVSI 15/100-S02	01	•	120°C	3.30	2.81	**210**	**257**	14.5	13.6	0.05	0.06	0.21	0.20	1.78	1.95
601367	**MVSI 18-480**	MVSI 15/200-S02	10	•	120°C	7.32	5.11	**469**	**471**	25.7	23.5	0.13	0.13	0.41	0.40	2.34	2.75
601372	**MVSI 18-920**	MVSI 15/400-S02	20	•	120°C	14.2	9.83	**906**	**904**	40.7	36.3	0.29	0.37	0.60	0.60	3.33	3.50
601373	**MVSI 18-1310**	MVSI 15/550-S02	20	•	120°C	19.0	14.2	**1214**	**1302**	45.5	40.7	0.29	0.37	0.60	0.60	3.33	3.50
601408	**MVSI 18-1690**	MVSI 15/700-S02	30	•	120°C	24.9	18.2	**1584**	**1672**	57.6	53.9	0.51	0.66	0.92	0.98	3.48	4.43
601513	**MVSI 18-2280**	MVSI 15/900-S02	30	•	120°C	31.0	24.9	**1980**	**2281**	63.8	57.6	0.51	0.66	0.92	0.98	3.48	3.43
601524	**MVSI 18-2150**	MVSI 15/1100-S02	35	•	120°C	36.1	23.6	**2299**	**2160**	71.5	67.1	0.54	0.67	0.95	0.95	4.45	4.89
601217	**MVSI 18-3190**	MVSI 15/1410-S02	40	•	120°C	48.8	34.8	**3109**	**3188**	90.6	82.5	1.0	1.2	1.45	1.50	4.10	4.20
601219	**MVSI 18-3870**	MVSI 15/1710-S02	50	•	135°C	62.2	42.2	**3956**	**3865**	105	93.5	1.1	1.2	2.00	1.90	4.29	4.89
601267	**MVSI 18-4500**	MVSI 15/2000-S02	50	•	135°C	71.0	48.8	**4519**	**4473**	111	97.9	1.3	1.5	2.50	2.30	4.30	4.90
601220	**MVSI 18-5380**	MVSI 15/2410-S08	60	•	150°C	83.6	58.6	**5324**	**5377**	154	140	1.8	1.9	3.20	3.00	6.09	7.23
601268	**MVSI 18-6850**	MVSI 15/3000-S08	60	•	135°C	107	74.6	**6833**	**6835**	176	156	2.0	2.2	3.80	3.50	6.50	7.50
601221	**MVSI 18-8300**	MVSI 15/3810-S02	70	•	135°C	133	89.9	**8448**	**8237**	262	242	2.4	2.8	3.90	3.90	7.11	6.92
601269	**MVSI 18-9420**	MVSI 15/4300-S02	70	•	135°C	150	102	**9517**	**9350**	271	257	2.7	3.3	4.80	4.65	5.90	7.10
601211	**MVSI 18-10900**	MVSI 15/5010-S02	80	•	135°C	173	119	**11015**	**10870**	354	337	4.0	3.7	6.00	5.00	7.02	8.00
601447	**MVSI 18-13400**	MVSI 15/6000-S02	80	•	135°C	195	146	**12439**	**13365**	360	341	4.0	3.7	6.00	5.00	7.02	8.00
601165	**MVSI 18-14500**	MVSI 15/7000-S02	90	•	135°C	226	158	**14379**	**14520**	458	429	6.7	7.0	10.5	9.00	6.48	7.67
601166	**MVSI 18-17600**	MVSI 15/9000-S90	95	□	135°C	283	197	**18038**	**18003**	495	462	7.6	8.9	11.6	11.5	5.43	5.57
601204	**MVSI 18-19700**	MVSI 15/9500-S02	97	□	135°C	291	214	**18515**	**19615**	673	642	8.0	9.2	12.2	12.0	6.56	6.67
601205	**MVSI 18-25300**	MVSI 15/11500-S02	100	□	135°C	395	275	**25146**	**25227**	946	904	11.5	12.2	17.5	15.5	7.03	8.00
601271	**MVSI 18-32900**	MVSI 15/14500-S02	100	□	135°C	488	359	**31064**	**32868**	1008	933	12.9	13.8	20.0	20.0	8.00	8.00

Single-phase

						Static moment*		Centrifugal force		Weight		Power Output		Max current		Ia/In	
						in-lbs		lbs		lbs		HP		A			
Code	Type	Type (EU)	SIZE	CSA	II2D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	220V 50Hz	115V 60Hz	50Hz	60Hz
601340	**MVSI 18-100**	MVSI 15/35-S02	00	•	120°C	12.1	12.1	**67.1**	**96.6**	11.4	11.4	0.05	0.05	0.43	1.00	1.20	1.30
601341	**MVSI 18-180**	MVSI 15/80-S02	01	•	120°C	32.3	20.2	**179**	**161**	13.6	12.8	0.05	0.05	0.43	1.00	1.20	1.30
601366	**MVSI 18-250**	MVSI 15/100-S02	01	•	120°C	37.9	32.3	**210**	**257**	14.5	13.6	0.05	0.05	0.43	1.00	1.20	1.30
601367	**MVSI 18-480**	MVSI 15/200-S02	10	•	120°C	84.2	58.8	**469**	**471**	25.7	23.5	0.15	0.15	1.00	2.00	1.50	1.85
601372	**MVSI 18-920**	MVSI 15/400-S02	20	•	120°C	163	113	**906**	**904**	40.7	36.3	0.16	0.24	1.20	2.80	2.50	2.21
601373	**MVSI 18-1310**	MVSI 15/550-S02	20	•	120°C	219	163	**1214**	**1302**	45.5	40.7	0.16	0.24	1.20	2.80	2.50	2.21
601408	**MVSI 18-1690**	MVSI 15/700-S02	30	•	120°C	286	209	**1584**	**1672**	57.6	53.9	0.32	0.41	2.15	5.15	5.44	3.63

* Working moment = 2 x static moment. □ CSA certification on request, with feeding line included.

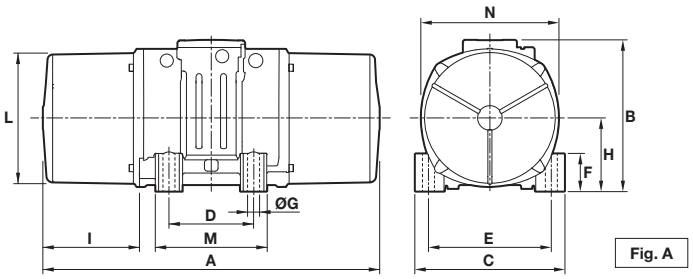


Fig. A

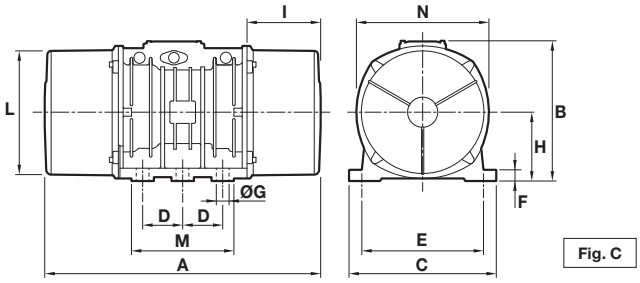


Fig. C

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
MVSI 18-100	**A**	8.31	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	1.81	4.06	3.86	4.61	-	-	M20x1.5
MVSI 18-180	**A**	9.80	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	2.56	4.06	3.86	4.61	-	-	M20x1.5
MVSI 18-250	**A**	9.80	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	2.56	4.06	3.86	4.61	-	-	M20x1.5
MVSI 18-480	**A**	11.85	6.73	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	2.87	3.03	5.00	5.04	5.55	-	-	M20x1.5
MVSI 18-920	**A**	13.54	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	3.66	5.71	5.75	6.30	-	-	M25x1.5
MVSI 18-1310	**A**	15.20	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	4.49	5.71	5.75	6.30	-	-	M25x1.5
MVSI 18-1690	**A**	15.51	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	4.17	6.69	6.85	7.17	-	-	M25x1.5
MVSI 18-2280	**A**	15.51	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	4.17	6.69	6.85	7.17	-	-	M25x1.5
MVSI 18-2150	**A**	17.13	8.82	8.07	**4.72**	**6.69**	**0.67**	**4**	1.65	4.11	4.63	7.36	6.38	7.99	-	-	M25x1.5
MVSI 18-3190	**A**	17.64	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	4.25	8.15	7.48	8.86	-	-	M25x1.5
MVSI 18-3870	**A**	19.69	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	5.28	8.15	7.48	8.86	-	-	M25x1.5
MVSI 18-4500	**A**	22.60(50HZ) 19.69(60HZ)	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	6.73(50Hz) 5.28(60Hz)	8.15	7.48	8.86	-	-	M25x1.5
MVSI 18-5380	**A**	21.14	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	5.39	9.37	8.27	9.96	-	-	M25x1.5
MVSI 18-6850	**A**	24.29	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	6.97	9.37	8.27	9.96	-	-	M25x1.5
MVSI 18-8300	**A**	22.99	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	5.39	10.91	8.46	11.61	-	-	M25x1.5
MVSI 18-9420	**A**	26.22(50Hz) 22.99(60Hz)	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.01(50Hz) 5.39(60Hz)	10.91	8.46	11.61	-	-	M25x1.5
MVSI 18-10900	**A**	24.80	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	5.91	11.93	9.45	12.60	-	-	M32x1.5
MVSI 18-13400	**A**	24.80	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	5.91	11.93	9.45	12.60	-	-	M32x1.5
MVSI 18-14500	**A**	26.77	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	6.30	12.99	10.63	13.78	-	-	M32x1.5
MVSI 18-17600	**A**	24.76	15.55	15.43	**7.87**	**12.60**	**1.10**	**4**	3.94	7.56	5.30	13.98	10.63	14.76	-	-	M32x1.5
MVSI 18-19700	**C**	33.94	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	9.06	15.24	12.60	16.30	-	-	M32x1.5
MVSI 18-25300	**C**	38.98	17.87	20.87	**5.51**	**17.32**	**1.77**	**6**	1.50	9.06	9.45	16.65	14.57	17.64	-	-	M32x1.5
MVSI 18-32900	**C**	38.98	17.87	20.87	**5.51**	**17.32**	**1.77**	**6**	1.50	9.06	9.45	16.65	14.57	17.64	-	-	M32x1.5

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
MVSI 18-100	**A**	8.31	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	1.81	4.06	3.86	4.61	3.15	25	M20x1.5
MVSI 18-180	**A**	9.80	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	2.56	4.06	3.86	4.61	3.15	25	M20x1.5
MVSI 18-250	**A**	9.80	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	2.56	4.06	3.86	4.61	3.15	25	M20x1.5
MVSI 18-480	**A**	11.85	6.73	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	2.87	3.03	5.00	5.04	5.55	5	25	M20x1.5
MVSI 18-920	**A**	13.54	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	3.66	5.71	5.75	6.30	12○ +20●	35	M25x1.5
MVSI 18-1310	A	15.20	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	4.49	5.71	5.75	6.30	12○ +20●	35○ +10●	M25x1.5
MVSI 18-1690	A	15.51	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	4.17	6.69	6.85	7.17	16○ +80●	40○ +120●	M25x1.5

Ia/In = ratio between start-up current and maximum current. ** Slot. ○ Running capacitor / ● Additional capacitor only for start-up.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

MVSI

6 poles - 1,000/1,200 rpm

Three-phase

DESCRIPTION						MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
						Static moment*		Centrifugal force		Weight		Power Output		Max current		Ia/In	
						in-lbs		lbs		lbs		HP		A			
Code	Type	Type (EU)	SIZE	CSA	II2D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602296	**MVSI 12-110**	MVSI 10/40-S02	10	•	120°C	2.61	2.61	**74**	**106**	19.8	19.8	0.07	0.12	0.30	0.30	1.90	2.07
602297	**MVSI 12-300**	MVSI 10/100-S02	10	•	120°C	7.32	7.32	**207**	**299**	26.2	26.2	0.07	0.12	0.30	0.30	1.90	2.07
602298	**MVSI 12-580**	MVSI 10/200-S02	20	•	120°C	14.2	14.2	**403**	**581**	39.8	39.8	0.13	0.16	0.50	0.50	2.72	3.10
602314	**MVSI 12-760**	MVSI 10/310-S02	30	•	120°C	24.9	18.2	**706**	**744**	56.5	52.8	0.29	0.36	0.72	0.68	2.63	2.79
602241	**MVSI 12-1270**	MVSI 10/400-S02	30	•	120°C	31.0	31.0	**880**	**1267**	63.8	63.8	0.29	0.36	0.72	0.68	2.63	2.79
602402	**MVSI 12-1630**	MVSI 10/550-S02	35	•	120°C	39.7	39.7	**1126**	**1621**	71.7	71.7	0.32	0.36	0.75	0.68	2.53	3.68
602403	**MVSI 12-1660**	MVSI 10/650-S02	35	•	-	50.4	39.7	**1430**	**1621**	78.1	71.7	0.32	0.36	0.95	0.88	3.16	3.86
602380	**MVSI 12-1990**	MVSI 10/810-S08	40	•	135°C	62.9	48.8	**1780**	**1991**	96.8	88.0	0.60	0.69	1.40	1.35	2.79	3.33
602381	**MVSI 12-2540**	MVSI 10/1110-S08	50	•	135°C	88.0	62.2	**2490**	**2532**	123	107	0.74	0.75	1.65	1.50	3.33	4.13
602382	**MVSI 12-3110**	MVSI 10/1400-S08	50	•	135°C	111	80.1	**3133**	**3263**	139	122	0.87	0.87	1.80	1.70	3.05	3.65
602406	**MVSI 12-3410**	MVSI 10/1610-S08	60	•	135°C	127	83.6	**3604**	**3408**	176	154	1.1	1.3	2.20	2.20	4.21	4.05
602407	**MVSI 12-4700**	MVSI 10/2100-S08	60	•	135°C	168	115	**4739**	**4624**	202	180	1.5	1.6	3.00	2.75	3.42	4.00
602167	**MVSI 12-6050**	MVSI 10/2610-S02	70	•	135°C	202	150	**5722**	**6043**	286	255	2.1	2.3	4.10	3.75	5.35	5.60
602230	**MVSI 12-6600**	MVSI 10/3000-S02	70	•	135°C	234	169	**6615**	**6873**	319	286	2.3	2.7	4.50	4.30	4.35	4.81
602154	**MVSI 12-8450**	MVSI 10/3810-S02	80	•	135°C	298	207	**8417**	**8428**	414	374	2.6	3.1	5.10	5.00	5.91	6.00
602204	**MVSI 12-10400**	MVSI 10/4700-S02	80	•	135°C	366	251	**10342**	**10226**	449	403	3.5	3.9	6.50	6.00	5.24	5.50
602350	**MVSI 12-11400**	MVSI 10/5150-S02	80	•	135°C	407	281	**11506**	**11440**	495	440	3.5	3.9	6.50	6.00	5.24	5.50
602138	**MVSI 12-11700**	MVSI 10/5200-S02	90	•	135°C	405	286	**11458**	**11645**	524	473	3.9	4.2	7.00	6.50	4.71	5.08
602351	**MVSI 12-12300**	MVSI 10/5700-S02	90	•	135°C	439	302	**12430**	**12320**	528	484	3.9	4.2	7.00	6.50	4.71	5.08
602091	**MVSI 12-14400**	MVSI 10/6500-S02	90	•	135°C	508	353	**14359**	**14364**	590	568	4.3	4.7	8.20	8.10	4.51	5.83
602136	**MVSI 12-14500**	MVSI 10/6600-S02 Δ	97	•	135°C	529	346	**14958**	**14091**	678	616	5.6	6.7	10.0	9.80	5.61	5.82
602352	**MVSI 12-15400**	MVSI 10/7000-S02	90	•	135°C	545	378	**15429**	**15400**	605	579	4.3	4.7	8.20	8.10	4.51	5.83
602092	**MVSI 12-17600**	MVSI 10/8000-S90	95	□	135°C	626	432	**17701**	**17591**	693	609	7.5	8.4	12.6	11.3	4.59	5.58
602093	**MVSI 12-19100**	MVSI 10/9000-S90	95	□	135°C	674	468	**19065**	**19072**	717	636	8.0	9.4	14.0	12.9	4.13	4.88
602137	**MVSI 12-20100**	MVSI 10/10000-S02	97	□	135°C	754	492	**21329**	**20057**	818	730	8.4	9.0	13.5	12.4	4.72	4.92
602349	**MVSI 12-24400**	MVSI 10/11200-S02	97	□	135°C	868	600	**24552**	**24420**	876	788	8.4	9.0	13.5	12.4	4.72	4.92
602134	**MVSI 12-26500**	MVSI 10/12000-S90 Δ	100	□	135°C	956	656	**27047**	**26710**	1100	979	10.1	11.0	16.3	15.0	5.21	5.73
602227	**MVSI 12-29000**	MVSI 10/13000-S02	97	□	135°C	1001	709	**28307**	**28886**	979	869	10.6	11.4	17.0	16.0	4.98	5.00
602142	**MVSI 12-31000**	MVSI 10/15000-S02	105	□	135°C	1101	756	**31141**	**30809**	1415	1331	12.1	13.4	19.0	18.0	5.88	5.78
602143	**MVSI 12-37000**	MVSI 10/17500-S02	105	□	135°C	1348	908	**38119**	**36969**	1520	1412	14.7	15.4	24.5	23.0	5.71	5.96
602244	**MVSI 12-40000**	MVSI 10/19500-S02	105	□	135°C	1560	994	**44136**	**40480**	1577	1430	14.7	15.4	24.5	23.0	5.71	5.96
602144	**MVSI 12-45000**	MVSI 10/22000-S90	110	□	-	1741	1090	**49249**	**44458**	2037	1971	20.6	20.4	33.0	25.5	4.67	5.88
602273	**MVSI 12-55000**	MVSI 10/25000-S90	110	□	-	1945	1286	**55000**	**52360**	2112	2042	20.6	20.4	33.0	25.5	4.67	5.88
602336	**MVSI 12-67000**	MVSI 10/30000-S02	120	-	-	2372	1631	**67232**	**66440**	2640	2310	28.7	30.0	40.0	38.0	4.89	5.39

* Working moment = 2 x static moment. Δ For special application. □ CSA certification on request, with feeding line included.

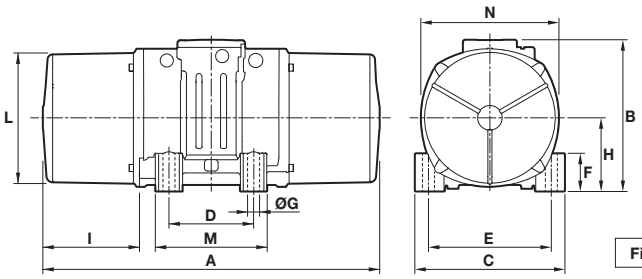


Fig. A

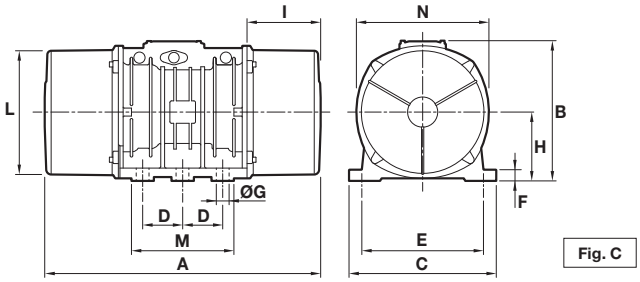


Fig. C

DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	Fig.	A	B	C	D	E	ØG	N°	F	H	I	L	M	N	Cable entry thread
MVSI 12-110	**A**	10.04	6.73	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	2.87	2.13	5.00	5.04	5.55	M20X1.5
MVSI 12-300	**A**	11.85	6.73	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	2.87	3.03	5.00	5.04	5.55	M20X1.5
MVSI 12-580	**A**	13.54	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	3.66	5.71	5.75	6.30	M25X1.5
MVSI 12-760	**A**	15.51	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	4.17	6.69	6.85	7.17	M25X1.5
MVSI 12-1270	**A**	15.51	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	4.17	6.69	6.85	7.17	M25X1.5
MVSI 12-1630	**A**	17.13	8.82	8.07	**4.72**	**6.69**	**0.67**	**4**	1.65	4.11	4.63	7.36	6.38	7.99	M25X1.5
MVSI 12-1660	**A**	18.90(50Hz) 17.13(60Hz)	8.82	8.07	**4.72**	**6.69**	**0.67**	**4**	1.65	4.11	5.51(50Hz) 4.63(60Hz)	7.36	6.38	7.99	M25X1.5
MVSI 12-1990	**A**	19.69(50Hz) 17.64(60Hz)	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	5.28(50Hz) 4.25(60Hz)	8.15	7.48	8.86	M25X1.5
MVSI 12-2540	**A**	22.60	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	6.73	8.15	7.48	8.86	M25X1.5
MVSI 12-3110	**A**	24.41(50Hz) 22.60(60Hz)	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	7.64(50Hz) 6.73(60Hz)	8.15	7.48	8.86	M25X1.5
MVSI 12-3410	**A**	24.29(50Hz) 21.14(60Hz)	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	6.97(50Hz) 5.39(60Hz)	9.37	8.27	9.96	M25X1.5
MVSI 12-4700	**A**	26.10(50Hz) 24.29(60Hz)	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	7.87(50Hz) 6.97(60Hz)	9.37	8.27	9.96	M25X1.5
MVSI 12-6050	**A**	26.22	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.01	10.91	8.46	11.61	M25X1.5
MVSI 12-6600	**A**	28.03	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.91	10.91	8.46	11.61	M25X1.5
MVSI 12-8450	**A**	28.90	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	7.95	11.93	9.45	12.60	M32X1.5
MVSI 12-10400	**A**	31.34	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	9.17	11.93	9.45	12.60	M32X1.5
MVSI 12-11400	**A**	32.52	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	9.76	11.93	9.45	12.60	M32X1.5
MVSI 12-11700	**A**	29.29	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	7.56	12.99	10.63	13.78	M32X1.5
MVSI 12-12300	**A**	33.07	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	9.45	12.99	10.63	13.78	M32X1.5
MVSI 12-14400	**A**	33.07	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	9.45	12.99	10.63	13.78	M32X1.5
MVSI 12-14500	**C**	29.53	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	6.85	15.24	12.60	16.30	M32X1.5
MVSI 12-15400	**A**	33.07	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	9.45	12.99	10.63	13.78	M32X1.5
MVSI 12-17600	**A**	34.25	15.55	15.43	**7.87**	**12.60**	**1.10**	**4**	3.94	7.56	10.04	13.98	10.63	14.76	M32X1.5
MVSI 12-19100	**A**	34.25	15.55	15.43	**7.87**	**12.60**	**1.10**	**4**	3.94	7.56	10.04	13.98	10.63	14.76	M32X1.5
MVSI 12-20100	**C**	33.94	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	9.06	15.24	12.60	16.30	M32X1.5
MVSI 12-24400	**C**	35.91	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	10.04	15.24	12.60	16.30	M32X1.5
MVSI 12-26500	**C**	38.98	17.87	20.87	**5.51**	**17.32**	**1.77**	**6**	1.50	9.06	9.45	16.65	14.57	17.64	M32X1.5
MVSI 12-29000	**C**	39.45	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	11.81	15.24	12.60	16.30	M32X1.5
MVSI 12-31000	**F**	37.80	20.71	22.44	**5.51**	**18.90**	**1.77**	**8**	1.61	10.55	7.87	19.13	20.08	20.31	M32X1.5
MVSI 12-37000	**F**	40.94	20.71	22.44	**5.51**	**18.90**	**1.77**	**8**	1.61	10.55	9.45	19.13	20.08	20.31	M32X1.5
MVSI 12-40000	**F**	44.09(50Hz) 40.95(60Hz)	20.71	22.44	**5.51**	**18.90**	**1.77**	**8**	1.61	10.55	11.02(50Hz) 9.45(60Hz)	19.13	20.08	20.31	M32X1.5
MVSI 12-45000	**F**	45.28	23.90	24.02	**5.51**	**20.47**	**1.77**	**8**	1.50	11.69	11.71	21.34	20.08	22.91	M32X1.5
MVSI 12-55000	**F**	45.28	23.90	24.02	**5.51**	**20.47**	**1.77**	**8**	1.50	11.69	11.71	21.34	20.08	22.91	M32X1.5
MVSI 12-67000	**Q**	47.44	25.51	27.56	**5.51**	**23.62**	**1.77**	**8**	1.77	12.60	12.20	23.62	20.08	25.98	M32X1.5

Ia/In = ratio between start-up current and maximum current.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

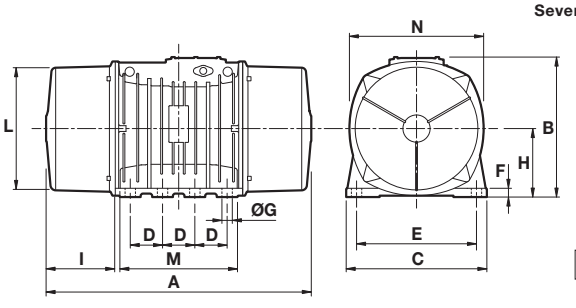


Fig. F

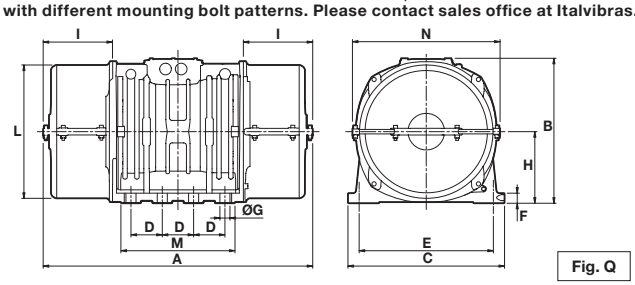


Fig. Q

MVSI

8 poles - 750/900 rpm

Three-phase

DESCRIPTION						MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
						Static moment*		Centrifugal force		Weight		Power Output		Max current		Ia/In	
						in-lbs		lbs		lbs		HP		A			
Code	Type	Type (EU)	SIZE	CSA	II2D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602568	**MVSI 9-340**	MVSI 075/150-S02	20	•	130°C	14.2	14.2	**229**	**328**	39.8	39.8	0.15	0.20	0.85	0.76	2.13	2.11
602575	**MVSI 9-590**	MVSI 075/250-S02	30	•	130°C	24.9	24.9	**398**	**572**	57.6	57.6	0.25	0.28	1.10	1.05	2.03	2.29
602615	**MVSI 9-910**	MVSI 075/400-S02	35	•	-	39.7	39.7	**634**	**913**	71.7	71.7	0.28	0.34	0.81	0.80	2.22	2.38
602616	**MVSI 9-1160**	MVSI 075/530-S02	35	•	-	50.4	50.4	**803**	**1162**	79.2	79.2	0.28	0.34	0.81	0.80	2.22	2.38
602609	**MVSI 9-1440**	MVSI 075/660-S08	40	•	120°C	62.9	62.9	**1003**	**1443**	96.8	96.8	0.28	0.35	1.20	1.20	2.38	2.58
602610	**MVSI 9-2030**	MVSI 075/910-S08	50	•	120°C	88.0	88.0	**1401**	**2017**	123	123	0.29	0.40	1.40	1.30	2.38	2.85
602618	**MVSI 9-2920**	MVSI 075/1310-S08	60	•	150°C	127	127	**2028**	**2919**	176	176	0.87	1.1	2.20	2.20	2.63	3.41
602619	**MVSI 9-3850**	MVSI 075/1750-S08	60	•	135°C	168	168	**2671**	**3843**	202	202	1.0	1.2	2.60	2.26	2.78	3.04
602891	**MVSI 9-4640**	MVSI 075/2110-S02	70	•	135°C	202	202	**3219**	**4635**	286	286	1.4	1.8	4.10	4.20	3.55	2.95
602884	**MVSI 9-6830**	MVSI 075/3110-S02	80	•	135°C	298	298	**4734**	**6818**	414	414	2.0	2.0	5.40	5.20	3.98	4.62
602515	**MVSI 9-8400**	MVSI 075/3800-S02	80	•	135°C	366	366	**5819**	**8378**	449	449	2.5	3.0	6.00	6.00	4.00	4.20
602862	**MVSI 9-9310**	MVSI 075/4200-S02	90	•	135°C	405	405	**6446**	**9280**	524	524	2.7	3.2	6.50	6.50	3.84	4.00
602826	**MVSI 9-11700**	MVSI 075/5300-S02	90	•	135°C	508	508	**8078**	**11631**	590	590	4.0	4.3	8.20	7.85	3.87	5.35
602827	**MVSI 9-14400**	MVSI 075/6500-S90	95	□	135°C	626	626	**9957**	**14337**	693	693	5.0	5.8	9.90	9.50	3.04	3.26
602551	**MVSI 9-14500**	MVSI 075/6800-S02 Δ	97	□	135°C	638	638	**10155**	**14623**	722	722	5.6	6.0	10.5	10.0	3.12	3.30
602870	**MVSI 9-21900**	MVSI 075/10000-S02	97	□	135°C	1077	954	**17142**	**21861**	964	922	7.1	8.5	13.2	12.0	3.33	3.92
602863	**MVSI 9-24800**	MVSI 075/12000-S90	100	□	135°C	1201	1079	**19116**	**24717**	1188	1144	7.6	8.7	14.0	13.5	3.72	3.78
602871	**MVSI 9-31000**	MVSI 075/14000-S02	105	□	135°C	1560	1348	**24827**	**30879**	1544	1496	10.2	11.0	21.0	19.5	4.99	5.44
602872	**MVSI 9-38000**	MVSI 075/17000-S02	105	□	135°C	1855	1658	**29520**	**37979**	1661	1564	11.9	12.7	22.0	20.0	5.50	5.90
602873	**MVSI 9-49000**	MVSI 075/22000-S90	110	□	-	2490	2131	**39611**	**48822**	2233	2158	14.7	17.5	26.5	28.0	5.63	4.71
602535	**MVSI 9-57000**	MVSI 075/26000-S90	110	□	-	-	2490	**-**	**57039**	-	2233	-	17.4	-	28.0	-	4.71
602589	**MVSI 9-67100**	MVSI 075/30000-S02	120	□	-	4127	2908	**65659**	**66616**	3080	2816	25.0	-	43.0	-	6.00	-

* Working moment = 2 x static moment. Δ For special application. □ CSA certification on request, with feeding line included.

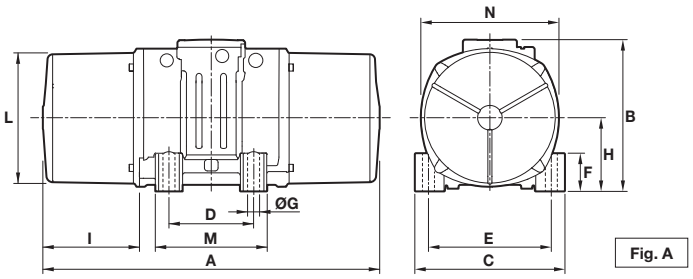


Fig. A

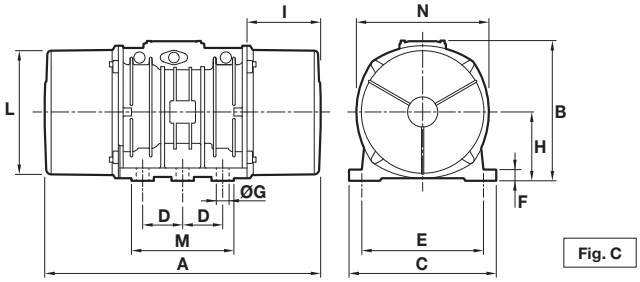


Fig. C

DIMENSIONAL SPECIFICATIONS (inches)

					Holes										
Type	**Fig.**	**A**	**B**	**C**	**D**	**E**	**ØG**	**N°**	**F**	**H**	**I**	**L**	**M**	**N**	**Cable entry thread**
MVSI 9-340	**A**	13.54	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	3.66	5.71	5.75	6.30	M25X1.5
MVSI 9-590	**A**	15.51	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	4.17	6.69	6.85	7.17	M25X1.5
MVSI 9-910	**A**	17.13	8.82	8.07	**4.72**	**6.69**	**0.67**	**4**	1.65	4.11	4.63	7.36	6.38	7.99	M25X1.5
MVSI 9-1160	**A**	18.90	8.82	8.07	**4.72**	**6.69**	**0.67**	**4**	1.65	4.11	5.51	7.36	6.38	7.99	M25X1.5
MVSI 9-1440	**A**	19.69	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	5.28	8.15	7.48	8.86	M25X1.5
MVSI 9-2030	**A**	22.60	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	6.73	8.15	7.48	8.86	M25X1.5
MVSI 9-2920	**A**	24.29	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	6.97	9.37	8.27	9.96	M25X1.5
MVSI 9-3850	**A**	26.10	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	7.87	9.37	8.27	9.96	M25X1.5
MVSI 9-4640	**A**	26.22	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.01	10.91	8.46	11.61	M25X1.5
MVSI 9-6830	**A**	28.90	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	7.95	11.93	9.45	12.60	M32X1.5
MVSI 9-8400	**A**	31.34	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	9.17	11.93	9.45	12.60	M32X1.5
MVSI 9-9310	**A**	29.29	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	7.56	12.99	10.63	13.78	M32X1.5
MVSI 9-11700	**A**	33.07	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	9.45	12.99	10.63	13.78	M32X1.5
MVSI 9-14400	**A**	34.25	15.55	15.43	**7.87**	**12.60**	**1.10**	**4**	3.94	7.56	10.04	13.98	10.63	14.76	M32X1.5
MVSI 9-14500	**C**	33.94	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	9.06	15.24	12.60	16.30	M32X1.5
MVSI 9-21900	**C**	39.45	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	11.81	15.24	12.60	16.30	M32X1.5
MVSI 9-24800	**C**	42.13	17.87	20.87	**5.51**	**17.32**	**1.77**	**6**	1.50	9.06	11.02	16.65	14.57	17.64	M32X1.5
MVSI 9-31000	**F**	40.94	20.71	22.44	**5.51**	**18.90**	**1.77**	**8**	1.61	10.55	9.45	19.13	20.08	20.31	M32X1.5
MVSI 9-38000	**F**	44.09	20.71	22.44	**5.51**	**18.90**	**1.77**	**8**	1.61	10.55	11.02	19.13	20.08	20.31	M32X1.5
MVSI 9-49000	**F**	45.28	23.90	24.02	**5.51**	**20.47**	**1.77**	**8**	1.50	11.69	11.71	21.34	20.08	22.91	M32X1.5
MVSI 9-57000	**F**	45.28	23.90	24.02	**5.51**	**20.47**	**1.77**	**8**	1.50	11.69	11.71	21.34	20.08	22.91	M32X1.5
MVSI 9-67100	**Q**	52.17	25.55	27.56	**5.51**	**23.62**	**1.77**	**8**	1.77	12.60	14.57	23.62	20.08	25.98	M32X1.5

Ia/In = ratio between start-up current and maximum current.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

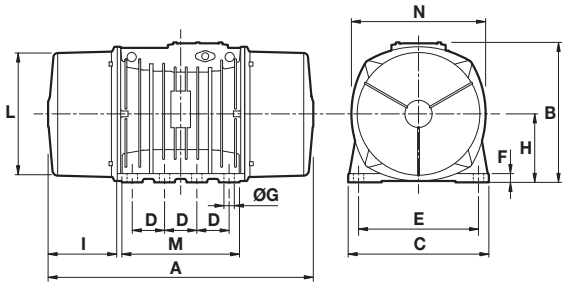


Fig. F

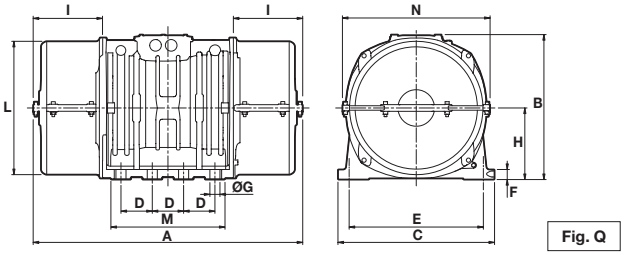


Fig. Q

Surface treatments and available versions for **MVSI Series**

MVSI

Technical features

Standard painting

Electrostatic surface treatment for all external components based on polymerised epoxy polyester powder in oven at 392°F (200°C).

Good resistance versus corrosion in normal operating conditions.

Salt spray tested for 500 hours.

MVSI-SS

Technical features

Standard painting with weight covers in stainless steel.

Casing and terminal box cover with electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C).

Weight covers in stainless steel AISI 304.

Excellent resistance versus corrosion in normal operating conditions.

Salt spray tested for 500 hours.

MVSI-SI

Technical features

STEEL IT polyurethane resin coating

Casing and terminal box cover have a special polyurethane resin coating with insertion of stainless steel leafing pigment AISI 316L.

Weight covers in stainless steel AISI 304.

All external hexagonal head screws are of stainless steel quality A2.

Coating is USDA approved for being used in the food sector where there is a high risk of accidental contact with processed food.

Salt spray tested for 500 hours.

Available for all models from all frame sizes.

MVSI-BR

Technical features

Ball burnishing treatment

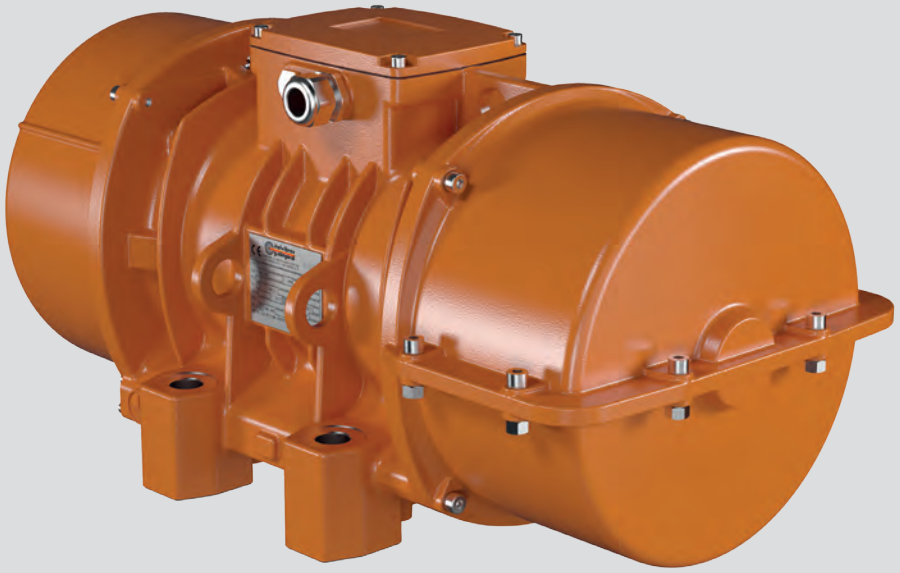
This treatment takes place without use of additional material on the casing and the terminal box cover, while weight covers are in stainless steel AISI 304.

Such treatment gives to the surfaces a polished aspect with hydrophobic effect which consistently improves their resistance to corrosion.

Suitable for environments where any painting or other surface coating have to be avoided as subject to frequent cleaning and sanitation, particularly in the chemical, pharmaceutical and food sectors.

Available on aluminium alloy electric vibrators, so up to frame size 60 included.

MVSI-SC



Technical features

Power supply
Three-phase voltage from 48V to 690V, 50Hz or 60Hz; suitable for use with an inverter from 20Hz to the base frequency, with constant torque load profile.

Polarity
4, 6 and 8 poles.

Conformity with Standards and Regulations
Low Voltage Directive 2006/95/EC;
EN/IEC 60034-1;
UL 1004-1, CSA C22.2 No.100, NEMA MG-1.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information contact our technical assistance office.

Centrifugal force
Range extended up to 67200 lbs (300 kN), with centrifugal force adjustable by varying eccentric weights position..

Mechanical protection
IP 66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

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

Tropicalization
Standard on all vibrators with “drop by drop” trickle system.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C). Versions for higher or lower temperatures are available on request.

Vibrator thermal protection
Standard PTC rated thermistor heat detectors 266°F (130°C) from size 70, on request for smaller sizes. On request, thermistors with different temperatures and anti-condensation heaters.

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
All vibrators are correctly lubricated in the factory and do not require further lubrication at start-up.

Terminal box
Large terminal box to facilitate electrical connection.
Special shaped terminals allow for the power supply cable to be secured, whilst protecting it from loosening.

Electric motor
Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to vibrating machines.
Insulated windings using the “drop by drop” trickle system with class H resin.
The rotor is die cast aluminium.

Casing
In high-tensile aluminium alloy up to size 60, in spheroidal cast iron for larger sizes.

Bearing flange
Constructed in cast iron (spheroidal or grey). The geometry of the flange transmits the load to the casing uniformly.

Bearings
Custom made with particular geometry, especially designed for Italvibras, suitable to support both high radial and axial loads.

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

The MVSI-SC series, obtained directly from the MVSI series, is characterized by the split weight covers. The weight cover is divided into two halves that can be removed in a radial direction, instead of axial direction as it happens for standard weight cover. According to requirements it is possible to mount one or two split weight covers.

The MVSI-SC series is indispensable in those applications where the position of the vibrator in the vibrating machine makes it difficult to axially remove the weight cover, while it has space to carry this out in a radial direction.

MVSI-SC has range extended up to 67200 kgf (300kN).

Eccentric weights
Allow adjustment of the centrifugal force. This adjustment is realized by a graduated scale, which expresses the centrifugal force as a percentage of the maximum centrifugal force.
A patented system, called ARS, prevents adjustment errors.

Weight covers
In aluminium alloy, dismountable to allow disassembly in a radial direction. On request vibrators can be supplied with 1 or 2 split covers.

Painting / Surface coating
Electrostatic surface treatment based on epoxy polyester powder polymerised in oven at 392°F (200°C). Tested in salt spray for 500 hours.
On request on MVSI-SC series other surface coatings may be available, see page 14.

Other mounting bolt patterns are available. For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

CE
Compliance with the applicable European Union directives.

EAC
Certification for Eurasian Customs Union
N° TC N RU Д-IT.АЛ33.B.02527

c SA US
Standard CAN/CSA – C22.2, N°.100-95,
Certificate n° LR 100948
Class 4211 01 - Motors and generators
UL 1004-1 – Rotating Electrical Machines – General Requirements

c SA US
Version MVSI-SC-C available on request
Class I Div.2, Groups ABCD
Standard CAN/CSA – C22.2

italvibras g.silingardi USA

MVSI-SC

4 poles - 1,500/1,800 rpm

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
601217	**MVSI 18-3190-SC**	MVSI 15/1410-S02-TS	40	•	48.8	34.8	**3109**	**3188**	92.8	84.7	1.0	1.2	1.45	1.50	4.10	4.20
601219	**MVSI 18-3870-SC**	MVSI 15/1710-S02-TS	50	•	62.2	42.2	**3956**	**3865**	107	95.7	1.1	1.2	2.00	1.90	4.29	4.89
601267	**MVSI 18-4500-SC**	MVSI 15/2000-S02-TS	50	•	71.0	48.8	**4519**	**4473**	113	100	1.3	1.5	2.50	2.30	4.30	4.90
601220	**MVSI 18-5380-SC**	MVSI 15/2410-S08-TS	60	•	83.6	58.6	**5324**	**5377**	156	142	1.8	1.9	3.20	3.00	6.09	7.23
601268	**MVSI 18-6850-SC**	MVSI 15/3000-S08-TS	60	•	107	74.6	**6833**	**6835**	178	158	2.0	2.2	3.80	3.50	6.50	7.50
601221	**MVSI 18-8300-SC**	MVSI 15/3810-S02-TS	70	•	133	89.9	**8448**	**8237**	264	244	2.4	2.8	3.90	3.90	7.11	6.92
601269	**MVSI 18-9420-SC**	MVSI 15/4300-S02-TS	70	•	150	102	**9517**	**9350**	273	260	2.7	3.3	4.80	4.65	5.90	7.10
601211	**MVSI 18-10900-SC**	MVSI 15/5010-S02-TS	80	•	173	119	**11015**	**10870**	356	339	4.0	3.7	6.00	5.00	7.02	8.00
601447	**MVSI 18-13400-SC**	MVSI 15/6000-S02-TS	80	•	195	146	**12439**	**13365**	362	343	4.0	3.7	6.00	5.00	7.02	8.00
601204	**MVSI 18-19700-SC**	MVSI 15/9500-S02-TS	97	□	291	214	**18515**	**19615**	675	645	8.0	9.0	12.2	12.0	6.56	6.67

* Working moment = 2 x static moment. □ CSA certification on request, with feeding line included.

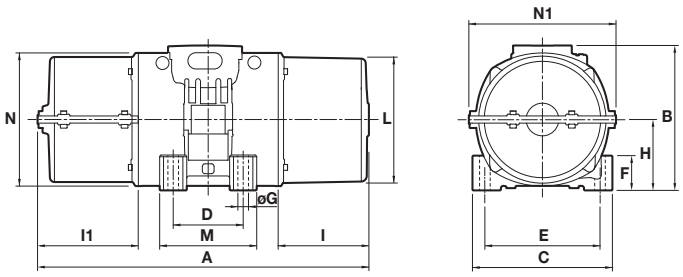


Fig. P

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A n. split covers 1	A n. split covers 2	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	I1	N1	Cable entry thread
MVSI 18-3190-SC	**P**	19.53	21.38	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	4.25	8.15	7.48	8.86	6.14	10.16	M25x1.5
MVSI 18-3870-SC	**P**	20.55	21.38	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	5.28	8.15	7.48	8.86	6.14	10.16	M25x1.5
MVSI 18-4500-SC	**P**	23.43(50Hz) 20.59(60Hz)	24.25(50Hz) 21.42(60Hz)	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	6.73(50Hz) 5.28(60Hz)	8.15	7.48	8.86	7.56(50Hz) 6.14(60Hz)	10.16	M25x1.5
MVSI 18-5380-SC	**P**	26.06	27.83	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	6.97	9.37	8.27	9.96	8.74	11.30	M25x1.5
MVSI 18-6850-SC	**P**	26.06	27.83	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	6.97	9.37	8.27	9.96	8.74	11.30	M25x1.5
MVSI 18-8300-SC	**P**	24.57	26.14	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	5.39	10.91	8.46	11.61	6.97	12.83	M25x1.5
MVSI 18-9420-SC	**P**	26.18(50Hz) 24.57(60Hz)	26.14	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.01(50Hz) 5.39(60Hz)	10.91	8.46	11.61	6.97	12.83	M25x1.5
MVSI 18-10900-SC	**P**	25.83	26.85	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	5.91	11.93	9.45	12.60	6.93	14.02	M32x1.5
MVSI 18-13400-SC	**P**	25.83	26.85	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	5.91	11.93	9.45	12.60	6.93	14.02	M32x1.5
MVSI 18-19700-SC	**P**	34.57	35.20	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	9.06	15.24	12.60	16.30	9.69	17.72	M32x1.5

Ia/In = ratio between start-up current and maximum current.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

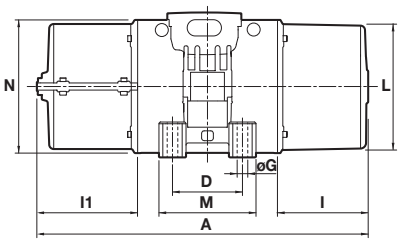
MVSI-SC

6 poles - 1,000/1,200 rpm

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602380	**MVSI 12-1990-SC**	MVSI 10/810-S08-TS	40	•	62.9	48.8	**1780**	**1991**	108	99.0	0.60	0.69	1.40	1.35	2.53	3.68
602381	**MVSI 12-2540-SC**	MVSI 10/1110-S08-TS	50	•	88.0	62.2	**2490**	**2532**	142	127	0.74	0.75	1.65	1.50	3.33	4.13
602382	**MVSI 12-3110-SC**	MVSI 10/1400-S08-TS	50	•	111	80.1	**3133**	**3263**	141	124	0.87	0.87	1.80	1.70	3.05	3.65
602406	**MVSI 12-3410-SC**	MVSI 10/1610-S08-TS	60	•	127	83.6	**3604**	**3408**	178	156	1.1	1.3	2.20	2.20	4.21	4.05
602407	**MVSI 12-4700-SC**	MVSI 10/2100-S08-TS	60	•	168	115	**4739**	**4624**	205	183	1.5	1.6	3.00	2.75	3.42	4.00
602167	**MVSI 12-6050-SC**	MVSI 10/2610-S02-TS	70	•	202	150	**5722**	**6043**	288	257	2.1	2.3	4.10	3.75	5.35	5.60
602230	**MVSI 12-6600-SC**	MVSI 10/3000-S02-TS	70	•	234	169	**6615**	**6873**	321	288	2.3	2.7	4.50	4.30	4.35	4.81
602154	**MVSI 12-8450-SC**	MVSI 10/3810-S02-TS	80	•	298	207	**8417**	**8428**	416	376	2.6	3.1	5.10	5.00	5.91	6.00
602204	**MVSI 12-10400-SC**	MVSI 10/4700-S02-TS	80	•	366	251	**10342**	**10226**	451	405	3.5	3.9	6.50	6.00	5.24	5.50
602350	**MVSI 12-11400-SC**	MVSI 10/5150-S02-TS	80	•	/	281	**/**	**11440**	/	442	/	3.9	/	6.00	/	5.50
602138	**MVSI 12-11700-SC**	MVSI 10/5200-S02-TS	90	•	405	286	**11458**	**11645**	526	475	3.9	4.2	7.00	6.50	4.71	5.08
602351	**MVSI 12-12300-SC**	MVSI 10/5700-S02-TS	90	•	439	302	**12430**	**12430**	530	486	3.9	4.2	7.00	6.50	4.71	5.08
602091	**MVSI 12-14400-SC**	MVSI 10/6500-S02-TS	90	•	508	353	**14359**	**14364**	592	570	4.3	4.7	8.20	8.10	4.51	5.83
602352	**MVSI 12-15400-SC**	MVSI 10/7000-S02-TS	90	•	545	378	**15429**	**15400**	607	581	4.3	4.7	8.20	8.10	4.51	5.83
602092	**MVSI 12-17600-SC**	MVSI 10/8000-S90-TS	95	□	626	432	**17701**	**17591**	695	612	7.5	8.4	12.6	11.3	4.59	5.58
602093	**MVSI 12-19100-SC**	MVSI 10/9000-S90-TS	95	□	674	468	**19065**	**19072**	719	638	8.0	9.4	14.0	12.9	4.13	4.88
602137	**MVSI 12-20100-SC**	MVSI 10/10000-S02-TS	97	□	754	492	**21329**	**20057**	821	733	8.4	9.0	13.5	12.4	4.72	4.92
602227	**MVSI 12-29000-SC**	MVSI 10/13000-S02-TS	97	□	1001	709	**28307**	**28886**	981	871	10.6	11.4	17.0	16.0	4.98	5.00
602142	**MVSI 12-31000-SC**	MVSI 10/15000-S02-TS	105	□	1101	756	**31141**	**30809**	1417	1333	12.1	13.4	19.0	18.0	5.88	5.78
602143	**MVSI 12-37000-SC**	MVSI 10/17500-S02-TS	105	□	1348	908	**38119**	**36969**	1551	1443	14.7	15.4	24.5	23.0	5.71	5.96
602244	**MVSI 12-40000-SC**	MVSI 10/19500-S02-TS	105	□	1560	994	**44136**	**40480**	1564	1454	15.8	16.6	24.5	23.0	5.71	5.96
602144	**MVSI 12-45000-SC**	MVSI 10/22000-S90-TS	110	□	1741	1091	**49249**	**44458**	2037	1971	20.6	20.4	33.0	25.5	4.67	5.88
602273	**MVSI 12-55000-SC**	MVSI 10/25000-S90-TS	110	□	1945	1286	**55000**	**52360**	2112	2042	20.6	20.4	33.0	25.5	4.67	5.88
602336	**MVSI 12-67000-SC**	MVSI 10/30000-S02-TS	120	□	2372	1631	**67104**	**66440**	2662	2552	28.7	30.0	40.0	38.0	4.89	5.39

* Working moment = 2 x static moment. □ CSA certification on request, with feeding line included.



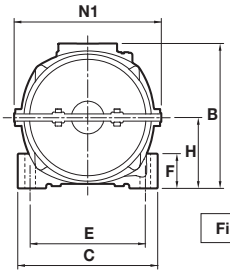
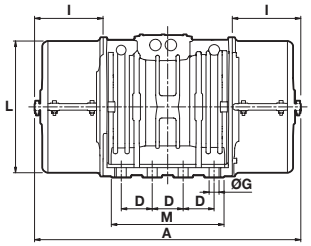


Fig. P



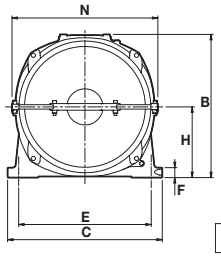


Fig. Q

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A n. split covers 1	A n. split covers 2	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	I1	N1	Cable entry thread
MVSI 12-1990-SC	**P**	20.55(50Hz) 19.53(60Hz)	21.38	9.69	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	5.28(50Hz) 4.25(60Hz)	8.15	7.48	8.86	6.14	10.16	M25x1.5
MVSI 12-2540-SC	**P**	23.43	24.25	9.69	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	6.73	8.15	7.48	8.86	7.56	10.16	M25x1.5
MVSI 12-3110-SC	**P**	25.24(50Hz) 23.43(60Hz)	26.06(50Hz) 24.25(60Hz)	9.69	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	7.64(50Hz) 6.73(60Hz)	8.15	7.48	8.86	8.47(50Hz) 7.56(60Hz)	10.16	M25x1.5
MVSI 12-3410-SC	**P**	26.06(50Hz) 24.49(60Hz)	27.83	9.69	10.83	**5.51**	**7.48**	**0.67**	**4**	2.76	5.12	6.97(50HZ) 5.39(60HZ)	9.37	8.27	9.96	8.74	11.30	M25x1.5
MVSI 12-4700-SC	**P**	26.97(50Hz) 26.06(60Hz)	27.83	9.69	10.83	**5.51**	**7.48**	**0.67**	**4**	2.76	5.12	7.87(50HZ) 6.97(60HZ)	9.37	8.27	9.96	8.74	11.30	M25x1.5
MVSI 12-6050-SC	**P**	28.27	30.31	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.01	10.91	8.46	11.61	9.06	12.83	M25x1.5
MVSI 12-6600-SC	**P**	29.17	30.31	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.91	10.91	8.46	11.61	9.06	12.83	M25x1.5
MVSI 12-8450-SC	**P**	29.84	30.79	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	7.95	11.93	9.45	12.60	8.90	14.02	M32x1.5
MVSI 12-10400-SC	**P**	32.36	33.39	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	9.17	11.93	9.45	12.60	10.20	14.02	M32x1.5
MVSI 12-11400-SC	**P**	32.95(60Hz)	33.39(60Hz)	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	9.29	11.93	9.45	12.60	10.20	14.02	M32x1.5
MVSI 12-11700-SC	**P**	32.20	35.12	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	7.56	12.99	10.63	13.78	10.47	15.04	M32x1.5
MVSI 12-12300-SC	**P**	34.09	35.12	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	9.45	12.99	10.63	13.78	10.47	15.04	M32x1.5
MVSI 12-14400-SC	**P**	34.09	35.12	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	9.45	12.99	10.63	13.78	10.47	15.04	M32x1.5
MVSI 12-15400-SC	**P**	34.09	35.12	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	9.45	12.99	10.63	13.78	10.47	15.04	M32x1.5
MVSI 12-17600-SC	**P**	35.28	36.30	15.55	15.43	**7.87**	**12.60**	**1.10**	**4**	3.94	7.56	10.04	13.98	10.63	14.76	11.06	16.14	M32x1.5
MVSI 12-19100-SC	**P**	35.28	36.30	15.55	15.43	**7.87**	**12.60**	**1.10**	**4**	3.94	7.56	10.04	13.98	10.63	14.76	11.06	16.14	M32x1.5
MVSI 12-20100-SC	**P**	34.57	35.20	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	9.06	15.24	12.60	16.30	9.69	17.72	M32x1.5
MVSI 12-29000-SC	**P**	40.04	40.63	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	11.81	15.24	12.60	16.30	12.40	17.72	M32x1.5
MVSI 12-31000-SC	**P**	40.55	43.31	20.71	22.44	**5.51**	**18.90**	**1.77**	**8**	1.61	10.55	7.87	19.49	20.08	20.31	10.63	22.28	M32x1.5
MVSI 12-37000-SC	**P**	42.13	43.31	20.71	22.44	**5.51**	**18.90**	**1.77**	**8**	1.61	10.55	9.45	19.49	20.08	20.31	10.63	22.28	M32x1.5
MVSI 12-40000-SC	**P**	45.28(50Hz) 42.13(60Hz)	46.46(50Hz) 43.31(60Hz)	20.71	22.44	**5.51**	**18.90**	**1.77**	**8**	1.61	10.55	11.02(50Hz) 9.45(60Hz)	19.49	20.08	20.31	12.21(50Hz) 10.63(60Hz)	22.28	M32x1.5
MVSI 12-45000-SC	**P**	46.26	47.24	23.90	24.02	**5.51**	**20.47**	**1.77**	**8**	1.50	11.69	11.73	21.34	20.08	22.91	12.72	24.25	M32x1.5
MVSI 12-55000-SC	**P**	46.26	47.24	23.90	24.02	**5.51**	**20.47**	**1.77**	**8**	1.50	11.69	11.73	21.34	20.08	22.91	12.72	24.25	M32x1.5
MVSI 12-67000-SC	**Q**	/	47.44	25.55	27.56	**5.51**	**23.62**	**1.77**	**8**	1.77	12.60	/	/	20.08	/	12.20	25.98	M32x1.5

Ia/In = ratio between start-up current and maximum current.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

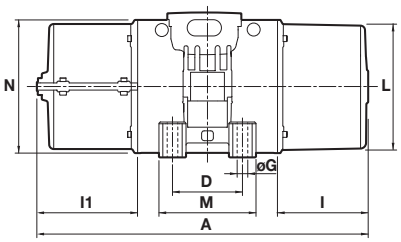
MVSI-SC

8 poles - 750/900 rpm

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
					Static moment*		Centrifugal force		Weight		Power Output		Max current		Ia/In	
					in-lbs		lbs		lbs		HP		A			
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602610	**MVSI 9-2030-SC**	MVSI 075/910-S08-TS	50	.	88.0	88.0	**1401**	**2017**	125	125	0.29	0.40	1.40	1.30	2.38	2.85
602618	**MVSI 9-2920-SC**	MVSI 075/1310-S08-TS	60	.	127	127	**2028**	**2919**	178	178	0.87	1.1	2.20	2.20	2.63	3.41
602619	**MVSI 9-3850-SC**	MVSI 075/1750-S08-TS	60	.	168	168	**2671**	**3843**	205	205	1.0	1.2	2.60	2.26	2.78	3.04
602891	**MVSI 9-4640-SC**	MVSI 075/2110-S02-TS	70	.	202	202	**3219**	**4635**	286	286	1.4	1.8	4.10	4.20	3.55	2.95
602884	**MVSI 9-6830-SC**	MVSI 075/3110-S02-TS	80	.	298	298	**4734**	**6818**	414	414	2.0	2.0	5.40	5.20	3.98	4.62
602515	**MVSI 9-8400-SC**	MVSI 075/3800-S02-TS	80	.	366	366	**5819**	**8378**	449	449	2.5	3.0	6.00	6.00	4.00	4.20
602862	**MVSI 9-9310-SC**	MVSI 075/4200-S02-TS	90	.	405	405	**6446**	**9280**	524	524	2.7	3.2	6.50	6.50	3.84	4.00
602826	**MVSI 9-11700-SC**	MVSI 075/5300-S02-TS	90	.	508	508	**8078**	**11631**	590	590	4.0	4.3	8.20	7.85	3.87	5.35
602827	**MVSI 9-14400-SC**	MVSI 075/6500-S90-TS	95	□	626	626	**9957**	**14337**	693	693	5.0	5.8	9.90	9.50	3.04	3.26
602551	**MVSI 9-14500-SC**	MVSI 075/6800-S02-TS	97	□	638	638	**10155**	**14623**	724	724	5.6	6.0	10.5	10.0	3.12	3.30
602870	**MVSI 9-21900-SC**	MVSI 075/10000-S02-TS	97	□	1077	954	**17142**	**21861**	964	922	7.1	8.5	13.2	12.0	3.33	3.92
602871	**MVSI 9-31000-SC**	MVSI 075/14000-S02-TS	105	□	1560	1348	**24827**	**30879**	1544	1496	10.2	11.0	21.0	19.5	4.99	5.44
602872	**MVSI 9-38000-SC**	MVSI 075/17000-S02-TS	105	□	1855	1658	**29520**	**37979**	1661	1564	11.9	12.7	22.0	20.0	5.50	5.90
602873	**MVSI 9-49000-SC**	MVSI 075/22000-S90-TS	110	□	2490	2131	**39611**	**48822**	2233	2158	14.7	17.5	26.5	28.0	5.63	4.71
602535	**MVSI 9-57000-SC**	MVSI 075/26000-S90-TS	110	□	-	2490	**-**	**57039**	-	2233	-	17.4	-	28.0	-	4.71
602589	**MVSI 9-67100-SC**	MVSI 075/30000-S02-TS	120	□	4127	2908	**65659**	**66616**	3080	2816	25.0	-	43.0	-	6.00	-

* Working moment = 2 x static moment. □ CSA certification on request, with feeding line included.



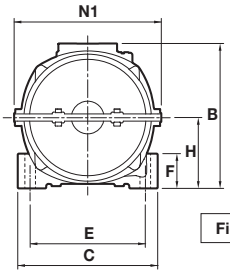
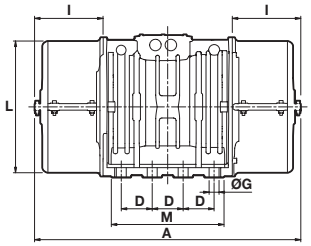


Fig. P



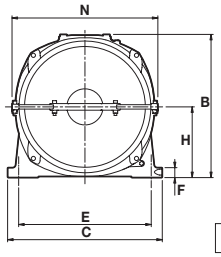


Fig. Q

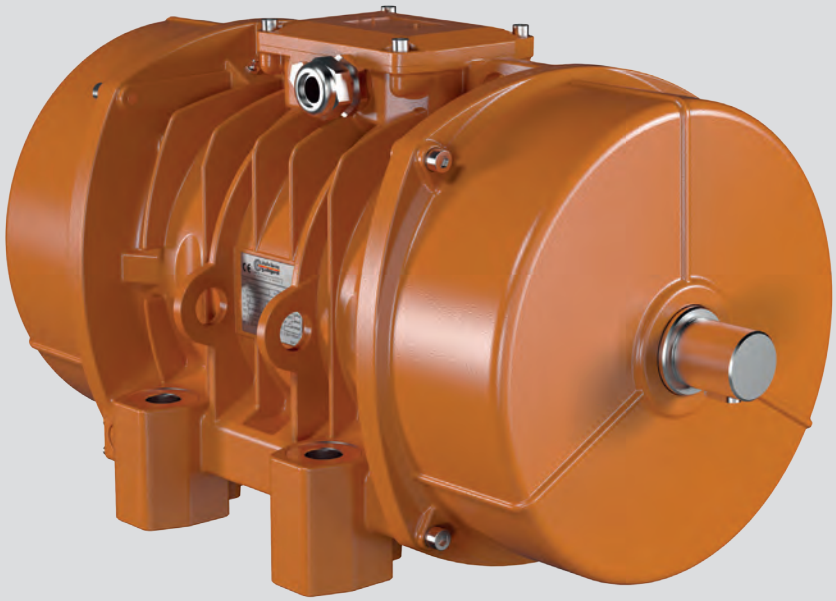
DIMENSIONAL SPECIFICATIONS (inches)

		A n. split covers				Holes												
Type	**Fig.**	**1**	**2**	**B**	**C**	**D**	**E**	**ØG**	**N°**	**F**	**H**	**I**	**L**	**M**	**N**	**I1**	**N1**	**Cable entry thread**
MVSI 9-2030-SC	**P**	23.43	24.25	9.69	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	6.73	8.27	7.48	8.86	7.56	10.16	M25x1.5
MVSI 9-2920-SC	**P**	26.06	27.83	9.69	10.83	**5.51**	**7.48**	**0.67**	**4**	2.76	5.12	6.97	9.37	8.27	9.96	8.74	11.30	M25x1.5
MVSI 9-3850-SC	**P**	26.97	27.83	9.69	10.83	**5.51**	**7.48**	**0.67**	**4**	2.76	5.12	7.87	9.37	8.27	9.96	8.74	11.30	M25x1.5
MVSI 9-4640-SC	**P**	28.27	30.31	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.01	10.91	8.46	11.61	9.06	12.83	M25x1.5
MVSI 9-6830-SC	**P**	29.84	30.79	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	7.95	11.93	9.45	12.60	8.90	14.02	M32x1.5
MVSI 9-8400-SC	**P**	32.36	33.39	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	9.17	11.93	9.45	12.60	10.20	14.02	M32x1.5
MVSI 9-9310-SC	**P**	32.20	35.12	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	7.56	12.99	10.63	13.78	10.47	15.04	M32x1.5
MVSI 9-11700-SC	**P**	34.09	35.12	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	9.45	12.99	10.63	13.78	10.47	15.04	M32x1.5
MVSI 9-14400-SC	**P**	35.28	36.30	15.55	15.43	**7.87**	**12.60**	**1.10**	**4**	3.94	7.56	10.04	13.98	10.63	14.76	11.06	16.14	M32x1.5
MVSI 9-14500-SC	**P**	34.57	35.20	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	9.06	15.24	12.60	16.30	9.69	17.72	M32x1.5
MVSI 9-21900-SC	**P**	40.04	40.63	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	11.81	15.24	12.60	16.30	12.40	17.72	M32x1.5
MVSI 9-31000-SC	**P**	42.13	43.31	20.71	22.44	**5.51**	**18.90**	**1.77**	**8**	1.61	10.55	9.45	19.09	20.08	20.31	10.63	22.28	M32x1.5
MVSI 9-38000-SC	**P**	45.28	46.46	20.71	22.44	**5.51**	**18.90**	**1.77**	**8**	1.61	10.55	11.02	19.09	20.08	20.31	12.20	22.28	M32x1.5
MVSI 9-49000-SC	**P**	46.26	47.24	23.90	24.02	**5.51**	**20.47**	**1.77**	**8**	1.50	11.69	11.73	21.34	20.08	22.91	12.72	24.25	M32x1.5
MVSI 9-57000-SC	**P**	46.26	47.24	23.90	24.02	**5.51**	**20.47**	**1.77**	**8**	1.50	11.69	11.73	21.34	20.08	22.91	12.72	24.25	M32x1.5
MVSI 9-67100-SC	**Q**	/	52.17	25.55	27.56	**5.51**	**23.62**	**1.77**	**8**	1.77	12.60	/	/	20.08	/	14.57	25.98	M32x1.5

Ia/In = ratio between start-up current and maximum current.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

MVSI-ACC



Technical features

Power supply
Three-phase voltage from 230V to 690V, 50Hz or 60Hz; suitable for use with an inverter from 20Hz to the base frequency, with constant torque load profile.

Polarity
All polarities available.

Conformity with Standards and Regulations
Low Voltage Directive 2006/95/EC;
EN/IEC 60034-1;
UL 1004-1, CSA C22.2 No.100, NEMA MG-1.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information, contact our technical assistance office.

Centrifugal force
Adjustable in a continuous linear way by varying eccentric weight position.

Mechanical protection
To be defined depending by type.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

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

Tropicalization
Standard on all vibrators, with vacuum encapsulation up to gr. AF 33 and 35, with “drop by drop” trickle system for larger sizes.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C). Versions for higher or lower temperatures are available on request.

Vibrator thermal protection
With PTC rated thermistor heat detectors 266°F (130°C) from size 70.
On request, thermistors with different temperatures and anti-condensation heaters.

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
All vibrators are correctly lubricated in the factory and do not require further lubrication at start-up.

Terminal box
Large terminal box to facilitate electrical connection.
Special shaped terminals allow for the power supply cable to be secured, whilst protecting it from loosening.

Electric motor
Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to requirements of vibrating machines. Insulated windings using vacuum encapsulating up to size AF33 and 35 included; using the “drop by drop” trickle system with class H resin for larger sizes. The rotor is die cast aluminium

Casing
In high-tensile aluminium alloy up to size 60, in spheroidal cast iron for larger sizes.

Bearing flange
Constructed in cast iron (spheroidal or grey). The geometry of the flange transmits the load to the casing uniformly.

Bearings
Custom made with particular geometry, especially designed for Italvibras, suitable to support both high radial and axial loads.

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

The MVSI-ACC series, deriving directly from the MVSI series, is characterised by the motor shaft projecting from one side, allowing in-line coupling, between two equal vibrators.

The MVSI-ACC series is very useful for manufacturers of large screens and vibrating machines, or for plants that require very high centrifugal force values. With two vibrators of the MVSI-ACC series coupled in line, it is possible to double the centrifugal force of the single vibrator. Italvibras technical staff can help the user in the choice of the coupling as well as in the application of the vibrators. Upon request, it is possible to supply the shaft extension on both sides of the vibrator, so to enable the connection of three or more vibrators.

All MVSI vibrators can be manufactured in MVSI-ACC version, for details on shaft extension dimensions of different types contact Italvibras sales offices.

Eccentric weights
Allow adjustment of the centrifugal force. This adjustment is realized by a graduated scale, which expresses the centrifugal force as a percentage of the maximum centrifugal force. A patented system, called ARS, prevents adjustment errors.

Weight covers
In aluminium alloy, from the shaft extension side the weight cover may be only perforated or perforated and sectioned in two halves to allow cover opening in radial direction.

Painting / Surface coating
Electrostatic surface treatment based on epoxy polyester powder polymerised in oven at 392°F (200°C). Tested in salt spray for 500 hours.
On request on MVSI-ACC series other surface coatings may be available, see page 14.

Other mounting bolt patterns are available. For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

CE
Compliance with the applicable European Union directives.

EAC
Certification for Eurasian Customs Union
N° TC N RU Д-IT.АЛ33.B.02527

c SA US
Standard CAN/CSA – C22.2, N°.100-95,
Certificate n° LR 100948
Class 4211 01 - Motors and generators
UL 1004-1 – Rotating Electrical Machines – General Requirements

c SA US
Version MVSI-ACC-C available on request
Class I Div.2, Groups ABCD
Standard CAN/CSA – C22.2

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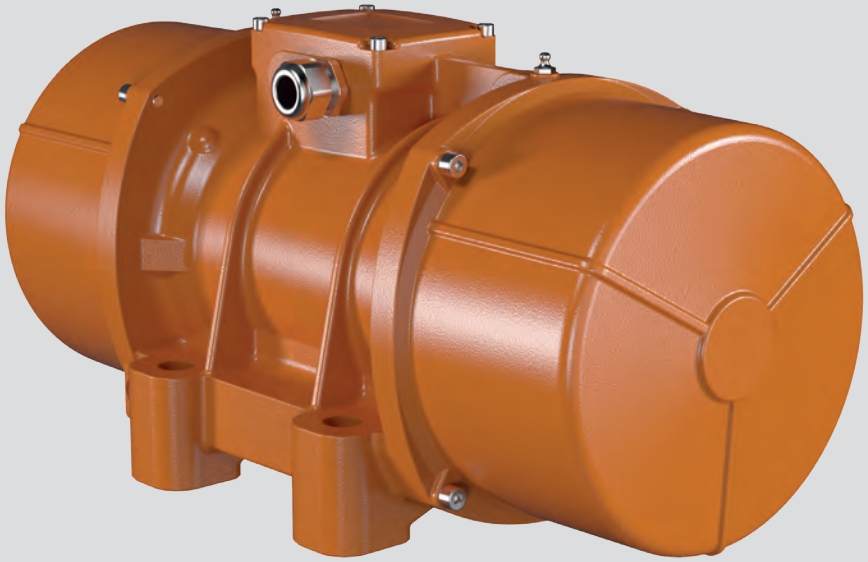
MVSI-E



Technical features

Power supply
Three-phase voltage from 220V to 690V, 50Hz or 60Hz; variable frequency (in presence of PTC thermistor) from 20Hz to the base frequency with constant torque load profile type PWM.

Polarity
2, 4, 6 and 8 poles.

Conformity with Standards and Regulations
ATEX Directive 2014/34/UE;
EN/IEC 60079-0, EN/IEC 60079-7, EN/IEC 60079-31, EN/IEC 60034-1.

Quality Controls
The components that affect protection are 100% accurately controlled and recorded.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power.

Centrifugal force
Range extended up to 24500 lbs (109 kN), adjustable in a continuous linear mode with variation of the position of the eccentric weights.

Mechanical protection
IP 66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Insulation class
Class F (155°C).

Tropicalization
Standard on all vibrators, with vacuum encapsulation up to size AF 33 and 35, with “drop by drop” trickle system for larger sizes.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C), on request it is possible to have vibrators for max. ambient temperatures of 131°F (+55°C).

Vibrator thermal protection
Standard PTC rated thermistor heat detectors 266°F (130°C) from size 70, on request for smaller sizes. On request, thermistors with different temperatures and anti-condensation heaters.

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Terminal box
Large terminal box to facilitate electrical connection.
Special shaped terminals allow for the power supply cable to be secured, whilst protecting it from loosening.

Electric motor
Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to requirements of vibrating machines. Insulated windings using vacuum encapsulating up to sizes AF33 and 35 included; using the “drop by drop” trickle system with class H resin for larger sizes.
The rotor is die cast aluminium.

Casing
In high-tensile aluminium alloy up to size 60, in spheroidal cast iron for larger sizes.

Bearing flange
Constructed in cast iron (spheroidal or grey) or in aluminium with steel bearing seat. The geometry of the flange transmits the load to the casing uniformly.

Bearings
Custom made with particular geometry, especially designed for Italvibras, suitable to support both high radial and axial loads.

The MVSI-E series has been designed for use in industrial processes where explosive gas and dust particles are present. In compliance with ATEX Directive (2014/34/UE) and in compliance with IECEx Scheme.

In particular, the MVSI-E series can be used in areas 1 and 2 (gas) and in areas 21 and 22 (dusts):

Category: II2D & II2G

Level of protection:
Ex tb IIIC T...°C Db

Temperature class:

see tables

EC certificate:

LCIE 05 ATEX 6163 X

Zones of use:

21, 22

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

Eccentric weights
Allow adjustment of the centrifugal force. This adjustment is realized by a graduated scale, which expresses the centrifugal force as a percentage of the maximum centrifugal force.
A patented system, called ARS, prevents adjustment errors.

Weight covers
In aluminium alloy.

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours.

Other mounting bolt patterns are available. For further details please contact sales offices at Italvibras. The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

CE
Compliance with the applicable European Union directives.

II2G II2D (2014/34/UE)
Ex e IIC T3/T4 Gb
Ex tb IIIC T...°C Db
EN 60079-0
EN 60079-7
EN 60079-31

IECEx
Ex e IIC T3/T4 Gb
Ex tb IIIC T...°C Db
IEC 60079-0
IEC 60079-7
IEC 60079-31

EAC
Certification for Eurasian Customs Union
N° TC RU C-IT.ГБ08.B.02190

KOSHA Korea
Certificate n° 11-AVG BO-0346/7/8/9/50/51
Ex e IIT3/T4
Ex td A21 IP66

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MVSI-E

2 poles - 3,000/3,600 rpm

Three-phase

DESCRIPTION				MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS									
				Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Temp. class (G)	Temp. class (D)	Power Input W		Power Output HP		Max. current A		tE (s)	Ia/In
Code	Type	Type (EU)	SIZE	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz			50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz		
6E0311	**MVSI 36-380E-S02 Δ**	MVSI 3/100E-S02	00	1.05	1.05	**268**	**387**	11.4	11.4	T3	120°C	180	180	0.16	0.16	-	-	30	2.68
										T4		105	105	0.11	0.11	-	-	20	3.48
6E0312	**MVSI 36-480E-S02 Δ**	MVSI 3/200E-S02	01	1.76	1.41	**447**	**515**	12.8	12.1	T3	120°C	180	180	0.16	0.16	-	-	30	2.68
6E0313	**MVSI 36-660E-S02**	MVSI 3/300E-S02	10	2.61	1.96	**664**	**717**	19.8	18.9	T3	120°C	260	270	0.28	0.28	0.57	0.50	18	3.50
										T4		230	230	0.23	0.23	0.48	0.41	12	4.20
6E0314	**MVSI 36-1050E-S02**	MVSI 3/500E-S02	20	5.04	3.03	**1285**	**1109**	31.5	29.3	T3	120°C	500	500	0.40	0.40	0.76	6.67	12	4.20
										T4		350	360	0.28	0.28	0.57	0.50	8	5.60
6E0381	**MVSI 36-1680E-S02**	MVSI 3/800E-S02	30	6.48	4.86	**1650**	**1782**	43.1	41.8	T3	120°C	550	570	0.54	0.54	0.95	0.83	12	4.20
										T4		390	400	0.39	0.39	0.72	0.64	8	5.52
6E0513	**MVSI 36-2530E-S02**	MVSI 3/1100E-S02	35	9.56	6.35	**2431**	**2325**	52.8	50.6	T3	120°C	550	600	0.47	0.47	0.86	0.75	15	3.88
										T4		460	500	0.39	0.39	0.76	0.67	11	4.37
6E0491	**MVSI 36-2900E-S08**	MVSI 3/1300E-S08	AF33	11.1	8.0	**2838**	**2919**	59.4	56.5	T4	200°C	700	750	0.67	0.67	1.24	1.07	6	6.40
6E0504	**MVSI 36-3500E-S08**	MVSI 3/1500E-S08	AF33	12.7	9.6	**3234**	**3509**	55.7	52.8	T4	200°C	700	750	0.67	0.67	1.24	1.07	6	6.40
6E0502	**MVSI 36-3280E-S02**	MVSI 3/1600E-S02	50	13.3	8.9	**3399**	**3263**	70.4	67.1	T3	200°C	1010	1070	0.96	0.96	1.62	1.40	6	9.29
										T4		830	910	0.88	0.88	1.43	1.25	6	7.30
6E0503	**MVSI 36-4080E-S02**	MVSI 3/1800E-S02	50	15.6	11.1	**3964**	**4077**	72.6	69.3	T3	200°C	1010	1070	0.96	0.96	1.62	1.40	6	9.29
6E0256	**MVSI 36-4100E-S90**	MVSI 3/2010E-S90	AF50	17.8	11.1	**4530**	**4077**	107	102	T3	200°C	1110	1150	1.29	1.29	1.90	1.66	7	5.90
6E0257	**MVSI 36-4910E-S90**	MVSI 3/2310E-S90	AF50	20.0	13.3	**5095**	**4893**	109	104	T3	200°C	1110	1150	1.29	1.29	1.90	1.66	7	5.90
6E0472	**MVSI 36-11000E-S02**	MVSI 3/5000E-S02	AF70	44.8	29.9	**11411**	**10954**	240	231	T3	135°C	3000	3000	3.48	3.48	4.75	4.20	5	8.00

* Working moment = 2 x static moment. Δ Available only in versions 127/220V 50Hz three-phase, 200/346V 50Hz three-phase and 210/363V 60Hz three-phase.

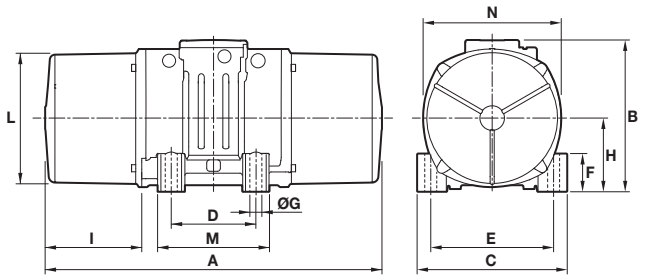


Fig. A

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Holes D	E	ØG	N°	F	H	I	L	M	N	Cable entry thread
MVSI 36-380E-S02 Δ	A	8.31	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	1.81	4.06	3.86	4.61	M20x1.5
MVSI 36-480E-S02 Δ	A	9.25	5.91	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.87	2.40	2.28	4.06	3.86	4.61	M20x1.5
MVSI 36-660E-S02	A	10.04	6.73	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	2.87	2.13	5.00	5.04	5.55	M20x1.5
MVSI 36-1050E-S02	A	11.34	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	2.56	5.71	5.75	6.30	M25x1.5
MVSI 36-1680E-S02	A	12.13	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	2.48	6.69	6.85	7.17	M25x1.5
MVSI 36-2530E-S02	A	17.13	8.82	8.07	**4.72**	**6.69**	**0.67**	**4**	1.65	4.11	4.63	7.36	6.38	7.99	M25x1.5
MVSI 36-2900E-S08	A	14.76	8.54	8.46	**3.94**	**7.09**	**0.67**	**4**	1.85	3.68	4.17	6.69	5.71	7.17	M25x1.5
MVSI 36-3500E-S08	A	14.76	8.54	8.46	**3.94**	**7.09**	**0.67**	**4**	1.85	3.68	4.17	6.69	5.71	7.17	M25x1.5
MVSI 36-3280E-S02	A	16.93	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	3.90	8.15	7.48	8.86	M25x1.5
MVSI 36-4080E-S02	A	16.93	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	3.90	8.15	7.48	8.86	M25x1.5
MVSI 36-4100E-S90	A	18.31	9.06	9.06	**5.51**	**7.48**	**0.67**	**4**	1.93	4.09	4.13	7.32	7.09	7.87	M25x1.5
MVSI 36-4910E-S90	A	18.31	9.06	9.06	**5.51**	**7.48**	**0.67**	**4**	1.93	4.09	4.13	7.32	7.09	7.87	M25x1.5
MVSI 36-11000E-S02	A	22.05	11.42	12.20	**6.10**	**10.04**	**0.98**	**4**	3.54	5.12	5.39	9.37	8.27	9.96	M25x1.5

tE (s) = set time tE from IEC/EN 60079-7. Ia/In = ratio between start-up current and maximum current. ** Slot.
Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

MVSI-E

4 poles - 1,500/1,800 rpm

Three-phase

DESCRIPTION				MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS									
				Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Temp. class (G)	Temp. class (D)	Power Input W		Power Output HP		Max. current A		tE (s)	Ia/In
Code	Type	Type (EU)	SIZE	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz			50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz		
6E1367	**MVSI 18-480E-S02**	MVSI 15/200E-S02	10	7.32	5.11	**469**	**471**	25.7	23.5	T3	120°C	203	-	0.12	-	0.45	-	35	2.04
										T4		170	175	0.13	0.13	0.39	0.40	28	2.34
6E1372	**MVSI 18-920E-S02**	MVSI 15/400E-S02	20	14.2	9.83	**906**	**904**	40.7	36.3	T3	120°C	300	320	0.27	0.31	0.57	0.52	18	3.33
										T4		285	270	0.24	0.27	0.52	0.46	16	3.63
6E1373	**MVSI 18-1310E-S02**	MVSI 15/550E-S02	20	19.0	14.2	**1214**	**1302**	45.5	40.7	T3	120°C	300	320	0.27	0.31	0.57	0.52	18	3.33
										T4		285	270	0.24	0.27	0.52	0.46	16	3.63
6E1408	**MVSI 18-1690E-S02**	MVSI 15/700E-S02	30	24.9	18.2	**1584**	**1672**	57.6	53.9	T3	120°C	460	500	0.42	0.51	0.86	0.85	17	3.5
										T4		360	420	0.32	0.42	0.72	0.70	12	4.2
6E1524	**MVSI 18-2150E-S02**	MVSI 15/1100E-S02	35	36.1	23.6	**2299**	**2160**	71.5	67.1	T4	120°C	370	450	0.38	0.46	0.81	0.83	13	4
6E1217	**MVSI 18-3190E-S02**	MVSI 15/1410E-S02	40	48.8	34.8	**3109**	**3188**	90.6	82.5	T3	120°C	900	950	0.88	0.98	1.38	1.32	13	4
										T4		630	700	0.62	0.68	1.05	1.00	8	5.36
6E1219	**MVSI 18-3870E-S02**	MVSI 15/1710E-S02	50	62.2	42.2	**3956**	**3865**	105	93.5	T3	120°C	1100	1150	0.98	1.07	1.90	1.82	9	4.95
										T4		630	700	0.64	0.71	1.33	1.27	5.5	7
6E1267	**MVSI 18-4500E-S02**	MVSI 15/2000E-S02	50	71.0	48.8	**4519**	**4473**	111	97.9	T3	150°C	1100	1150	0.98	1.07	1.90	1.82	9	4.95
										T4		630	700	0.64	0.71	1.33	1.27	5.5	7
6E1220	**MVSI 18-5380E-S08**	MVSI 15/2410E-S08	60	83.6	58.6	**5324**	**5377**	154	140	T3	150°C	1600	1700	1.80	1.97	3.04	3.20	7	6
										T4		1150	1250	1.18	1.30	2.47	2.30	5.5	7.5
6E1268	**MVSI 18-6850E-S08**	MVSI 15/3000E-S08	60	107	74.6	**6833**	**6835**	176	156	T3	150°C	1280	1150	1.34	1.61	3.14	3.10	5.5	7.42
										T4		1150	1400	1.21	1.45	2.85	2.85	5.5	8.16
6E1221	**MVSI 18-8300E-S02**	MVSI 15/3810E-S02	70	133	89.9	**8448**	**8237**	262	242	T3	135°C	2200	2400	2.39	2.63	3.71	3.50	6	7.17
										T4		1850	1950	2.01	2.21	3.14	3.00	6	8.42
6E1269	**MVSI 18-9420E-S02**	MVSI 15/4300E-S02	70	150	102	**9517**	**9350**	271	257	T3	135°C	2200	2400	2.39	2.63	3.71	3.50	6	7.17
										T4		1850	1950	2.01	2.21	3.14	3.00	6	8.42
6E1211	**MVSI 18-10900E-S02**	MVSI 15/5010E-S02	80	173	119	**11015**	**10804**	354	337	T3	135°C	3200	3700	3.43	3.75	5.70	5.45	6	7
6E1447	**MVSI 18-13400E-S02**	MVSI 15/6000E-S02	80	195	146	**12439**	**13365**	361	341	T3	135°C	3200	3700	3.43	3.75	5.70	4.45	6	7
6E1204	**MVSI 18-19700E-S02**	MVSI 15/9500E-S02	97	291	214	**18515**	**19615**	673	642	T3	135°C	7300	7900	7.94	8.71	11.60	11.0	5.5	7

* Working moment = 2 x static moment.

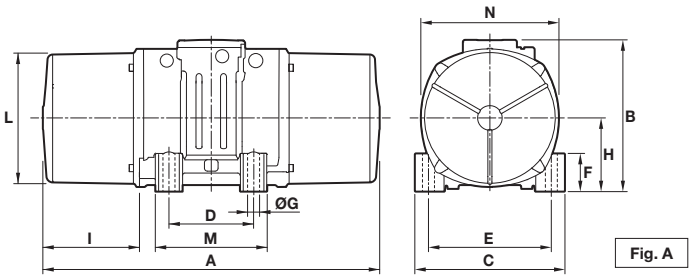


Fig. A

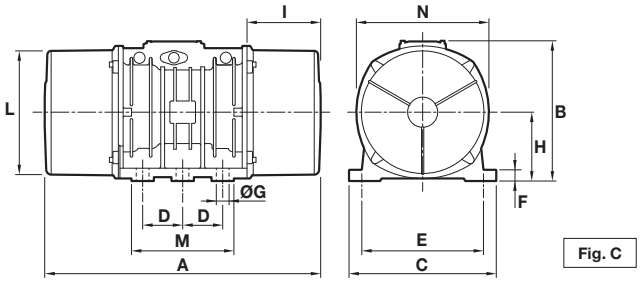


Fig. C

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	Cable entry thread
MVSI 18-480E-S02	**A**	11.85	6.73	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	2.87	3.03	5.00	5.04	5.55	M20x1.5
MVSI 18-920E-S02	**A**	13.54	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	3.66	5.71	5.75	6.30	M25x1.5
MVSI 18-1310E-S02	**A**	15.20	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	4.49	5.71	5.75	6.30	M25x1.5
MVSI 18-1690E-S02	**A**	15.51	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	4.17	6.69	6.85	7.17	M25x1.5
MVSI 18-2150E-S02	**A**	17.13	8.82	8.07	**4.72**	**6.69**	**0.67**	**4**	1.65	4.11	4.63	7.36	6.38	7.99	M25x1.5
MVSI 18-3190E-S02	**A**	17.64	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	4.25	8.15	7.48	8.86	M25x1.5
MVSI 18-3870E-S02	**A**	19.69	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	5.28	8.15	7.48	8.86	M25x1.5
MVSI 18-4500E-S02	**A**	22.60(50Hz) 19.69(60Hz)	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	6.73(50Hz) 5.28(60Hz)	8.15	7.48	8.86	M25x1.5
MVSI 18-5380E-S08	**A**	21.14	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	5.39	9.37	8.27	9.96	M25x1.5
MVSI 18-6850E-S08	**A**	24.29	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	6.97	9.37	8.27	9.96	M25x1.5
MVSI 18-8300E-S02	**A**	22.99	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	5.39	10.91	8.46	11.61	M25x1.5
MVSI 18-9420E-S02	**A**	26.22(50Hz) 22.99(60Hz)	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.01(50Hz) 5.39(60Hz)	10.91	8.46	11.61	M25x1.5
MVSI 18-10900E-S02	**A**	24.80	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	5.91	11.93	9.45	12.60	M32x1.5
MVSI 18-13400E-S02	**A**	24.80	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	5.91	11.93	9.45	12.60	M32x1.5
MVSI 18-19700E-S02	**C**	33.94	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	9.06	15.24	12.60	16.30	M32x1.5

tE (s) = set time tE from IEC/EN 60079-7. Ia/In = ratio between start-up current and maximum current.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

MVSI-E

6 poles - 1,000/1,200 rpm

Three-phase

DESCRIPTION				MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS									
				Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Temp. class (G)	Temp. class (D)	Power Input W		Power Output HP		Max. current A		tE (s)	Ia/In
Code	Type	Type (EU)	SIZE	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz			50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz		
6E2298	**MVSI 12-580E-S02**	MVSI 10/200E-S02	20	14.2	14.2	**403**	**581**	39.8	39.8	T4	120°C	185	200	0.13	0.15	0.48	0.45	25	2.72
6E2314	**MVSI 12-760E-S02**	MVSI 10/310E-S02	30	24.9	18.2	**706**	**744**	56.5	52.8	T4	120°C	320	350	0.27	0.30	0.67	0.65	25	2.81
6E2402	**MVSI 12-1630E-S02**	MVSI 10/550E-S02	35	39.7	39.7	**1126**	**1621**	71.7	71.7	T4	120°C	350	380	0.32	0.35	0.71	0.68	26	2.4
6E2380	**MVSI 12-1990E-S08**	MVSI 10/810E-S08	40	62.9	48.8	**1780**	**1991**	96.8	88.0	T3	135°C	680	730	0.60	0.66	1.33	1.27	25	2.78
										T4		500	540	0.39	0.43	1.05	1.00	17	3.54
6E2381	**MVSI 12-2540E-S08**	MVSI 10/1110E-S08	50	88.0	62.2	**2490**	**2532**	123	107	T3	135°C	750	690	0.74	0.74	1.57	1.36	19	3.33
										T4		480	500	0.40	0.40	1.24	1.00	13	4.23
6E2382	**MVSI 12-3110E-S08**	MVSI 10/1400E-S08	50	111	80.1	**3133**	**3263**	139	122	T3	135°C	750	690	0.74	0.74	1.57	1.36	19	3.33
										T4		480	500	0.40	0.40	1.24	1.00	13	4.23
6E2406	**MVSI 12-3410E-S08**	MVSI 10/1610E-S08	60	127	83.6	**3604**	**3408**	176	154	T3	135°C	1100	1200	1.11	1.21	2.09	2.00	15	3.63
										T4		850	950	0.82	0.90	1.81	1.70	10	4.73
6E2407	**MVSI 12-4700E-S08**	MVSI 10/2100E-S08	60	168	115	**4739**	**4624**	202	180	T3	135°C	1500	1700	1.26	1.37	2.85	2.75	9	4.50
										T4		1050	1200	1.01	1.10	2.19	2.10	8	4.89
6E2167	**MVSI 12-6050E-S02**	MVSI 10/2610E-S02	70	202	150	**5722**	**6043**	286	255	T3	135°C	1960	2100	2.12	2.28	3.9	3.7	8	5.31
6E2230	**MVSI 12-6600E-S02**	MVSI 10/3000E-S02	70	234	169	**6615**	**6873**	319	286	T3	135°C	2200	2400	2.18	2.37	4.28	4.30	8	4.82
										T4		1770	1900	1.81	1.97	3.71	3.60	5	5.56
6E2154	**MVSI 12-8450E-S02**	MVSI 10/3810E-S02	80	298	207	**8417**	**8428**	414	374	T3	135°C	2200	2700	2.11	2.32	4.85	4.60	7	5.88
										T4		2000	2200	2.01	2.21	4.28	4.00	6	6.66
6E2204	**MVSI 12-10400E-S02**	MVSI 10/4700E-S02	80	366	251	**10342**	**10226**	449	403	T3	135°C	3100	3500	3.35	3.71	6.18	6.00	10	5.23
										T4		2550	3000	2.81	3.07	5.42	5.20	6	5.96
6E2350	**MVSI 12-11400E-S02**	MVSI 10/5150E-S02	80	407	281	**11506**	**11440**	495	440	T3	135°C	3100	3500	3.35	3.71	6.18	6.00	10	5.23
										T4		2550	3000	2.81	3.07	5.42	5.20	6	5.96
6E2138	**MVSI 12-11700E-S02**	MVSI 10/5200E-S02	90	405	286	**11458**	**11645**	524	473	T3	135°C	3500	3650	3.47	3.62	6.65	6.1	10	4.64
6E2351	**MVSI 12-12300E-S02**	MVSI 10/5700E-S02	90	439	302	**12430**	**12320**	528	484	T3	135°C	3500	3650	3.47	3.62	6.65	6.1	10	4.64
6E2136	**MVSI 12-14500E-S02**	MVSI 10/6600E-S02	97	529	346	**14958**	**14091**	678	616	T3	135°C	4200	4800	4.50	4.76	7.6	7	5.3	6.67
6E2137	**MVSI 12-20100E-S02**	MVSI 10/10000E-S02	97	754	492	**21329**	**20057**	818	730	T3	135°C	5400	5900	6.03	6.43	9.98	9.1	7	6
6E2349	**MVSI 12-24400E-S02**	MVSI 10/11200E-S02	97	868	600	**24552**	**24420**	876	788	T3	135°C	5400	5900	6.03	6.43	9.98	9.1	7	6

* Working moment = 2 x static moment.

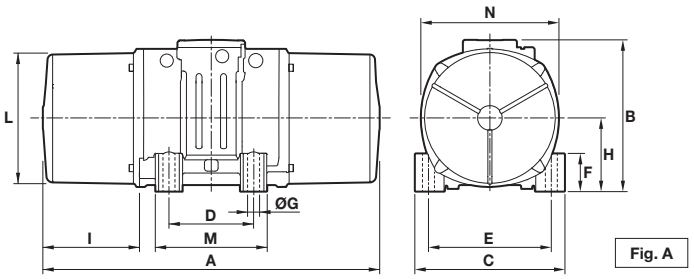


Fig. A

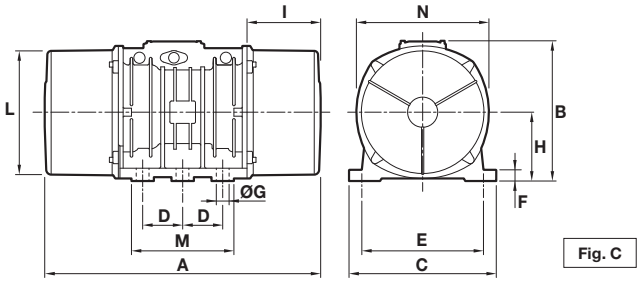


Fig. C

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	Cable entry thread
MVSI 12-580E-S02	**A**	13.54	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	3.66	5.71	5.51	6.30	M25x1.5
MVSI 12-760E-S02	**A**	15.51	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	4.17	6.69	6.85	7.17	M25x1.5
MVSI 12-1630E-S02	**A**	17.13	8.82	8.07	**4.72**	**6.69**	**0.67**	**4**	1.65	4.11	4.63	7.36	6.38	7.99	M25x1.5
MVSI 12-1990E-S08	**A**	19.69(50Hz) 17.64(60Hz)	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	5.28(50Hz) 4.25(60Hz)	8.15	7.48	8.86	M25x1.5
MVSI 12-2540E-S08	**A**	22.60	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	6.73	8.15	7.48	8.86	M25x1.5
MVSI 12-3110E-S08	**A**	24.41(50Hz) 22.60(60Hz)	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	7.64(50Hz) 6.73(60Hz)	8.15	7.48	8.86	M25x1.5
MVSI 12-3410E-S08	**A**	24.29(50Hz) 21.14(60Hz)	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	6.97(50Hz) 5.39(60Hz)	9.37	8.27	9.96	M25x1.5
MVSI 12-4700E-S08	**A**	26.10(50Hz) 24.29(60Hz)	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	7.87(50Hz) 6.97(60Hz)	9.37	8.27	9.96	M25x1.5
MVSI 12-6050E-S02	**A**	26.22	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.01	10.91	8.46	11.61	M25x1.5
MVSI 12-6600E-S02	**A**	28.03	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.91	10.91	8.46	11.61	M25x1.5
MVSI 12-8450E-S02	**A**	28.90	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	7.87	11.93	9.45	12.60	M32x1.5
MVSI 12-10400E-S02	**A**	31.34	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	9.17	11.93	9.45	12.60	M32x1.5
MVSI 12-11400E-S02	**A**	32.52	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	9.76	11.93	9.45	12.60	M32x1.5
MVSI 12-11700E-S02	**A**	29.29	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	7.56	12.99	10.63	13.78	M32x1.5
MVSI 12-12300E-S02	**A**	33.07	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	9.45	12.99	10.63	13.78	M32x1.5
MVSI 12-14500E-S02	**C**	29.53	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	6.85	15.24	12.60	16.30	M32x1.5
MVSI 12-20100E-S02	**C**	33.94	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	9.06	15.24	12.60	16.30	M32x1.5
MVSI 12-24400E-S02	**C**	35.91	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	10.04	15.24	12.60	16.30	M32x1.5

tE (s) = set time tE from IEC/EN 60079-7. Ia/In = ratio between start-up current and maximum current.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

MVSI-E

8 poles - 750/900 rpm

Three-phase

DESCRIPTION				MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS									
				Static moment* in-lbs		Centrifugal force lbs		Weight lbs				Power Input W		Power Output HP		Max. current A		tE (s)	Ia/In
Code	Type	Type (EU)	SIZE	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	Temp. class (G)	Temp. class (D)	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz		
6E2568	**MVSI 9-340E-S02**	MVSI 075/150E-S02	20	14.2	14.2	**229**	**328**	39.8	39.8	T3	130°C	230	250	0.13	0.15	0.67	0.64	25	2.00
6E2575	**MVSI 9-590E-S02**	MVSI 075/250E-S02	30	24.9	24.9	**398**	**572**	57.6	57.6	T3	130°C	350	350	0.25	0.27	0.86	0.80	25	2.47
6E2615	**MVSI 9-910E-S02**	MVSI 075/400E-S02	35	39.7	39.7	**634**	**913**	71.7	71.7	T4	120°C	280	300	0.18	0.20	0.57	0.56	30	1.66
6E2609	**MVSI 9-1440E-S08**	MVSI 075/660E-S08	40	62.9	62.9	**1003**	**1443**	96.8	96.8	T3	120°C	500	525	0.37	0.40	1.14	1.10	30	2.15
6E2610	**MVSI 9-2030E-S08**	MVSI 075/910E-S08	50	88.0	88.0	**1401**	**2017**	123	123	T3	120°C	600	670	0.45	0.51	1.33	1.30	30	2.14
										T4		450	500	0.30	0.34	1.14	1.10	25	2.50
6E2618	**MVSI 9-2920E-S08**	MVSI 075/1310E-S08	60	127	127	**2028**	**2919**	176	176	T3	150°C	950	1100	0.87	0.99	2.09	2.10	30	2.63
6E2891	**MVSI 9-4640E-S02**	MVSI 075/2110E-S02	70	202	202	**3219**	**4635**	286	286	T3	135°C	1500	1650	1.43	1.64	3.61	3.60	15	4.18
6E2884	**MVSI 9-6830E-S02**	MVSI 075/3110E-S02	80	297	297	**4734**	**6818**	414	414	T3	135°C	2000	2200	1.96	2.14	5.13	5.00	13	3.96
6E2515	**MVSI 9-8400E-S02**	MVSI 075/3800E-S02	80	366	366	**5819**	**8378**	449	449	T3	135°C	2500	3000	2.41	2.81	5.70	6.00	14	4.00
6E2862	**MVSI 9-9310E-S02**	MVSI 075/4200E-S02	90	405	405	**6446**	**9280**	524	524	T3	135°C	2630	2990	2.55	2.92	6.18	6.20	14	3.84
6E2826	**MVSI 9-11700E-S02**	MVSI 075/5300E-S02	90	508	508	**8078**	**11631**	590	590	T3	135°C	3520	3800	3.44	3.72	7.79	7.40	14	3.80
6E2870	**MVSI 9-21900E-S02**	MVSI 075/10000E-S02	97	1077	954	**17142**	**21861**	964	922	T3	135°C	5100	5800	5.49	6.03	11.40	11.00	17	3.50

* Working moment = 2 x static moment.

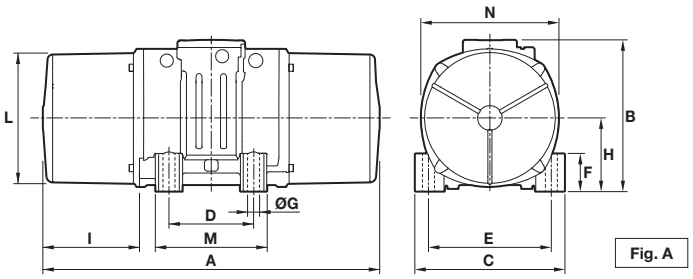


Fig. A

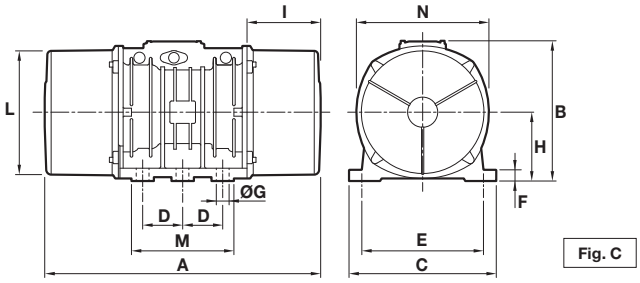


Fig. C

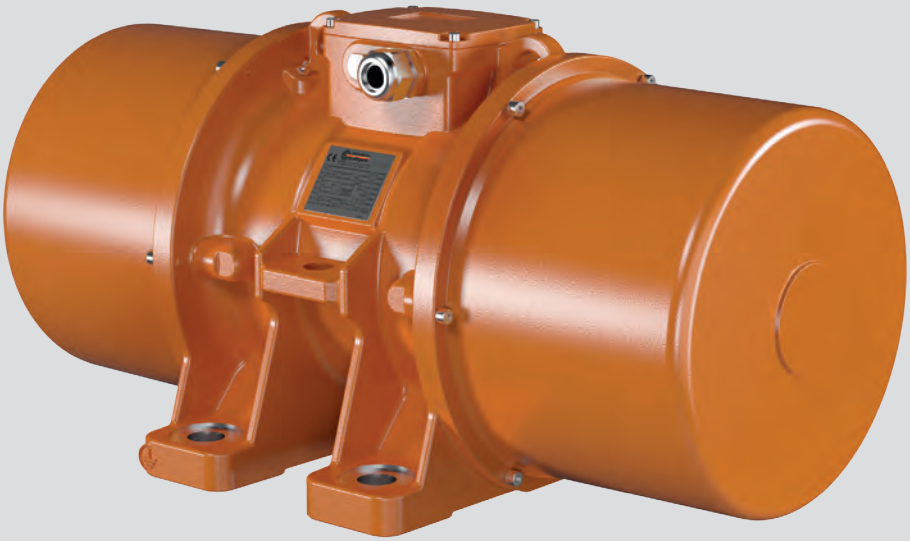
DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	Cable entry thread
MVSI 9-340E-S2	**A**	13.54	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	3.66	5.71	5.75	6.30	M25x1.5
MVSI 9-590E-S02	**A**	15.51	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	4.17	6.69	6.85	7.17	M25x1.5
MVSI 9-910E-S02	**A**	17.13	8.82	8.07	**4.72**	**6.69**	**0.67**	**4**	1.65	4.11	4.63	7.36	6.38	7.99	M25x1.5
MVSI 9-1440E-S08	**A**	19.69	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	5.28	8.15	7.48	8.86	M25x1.5
MVSI 9-2030E-S08	**A**	22.60	9.61	9.06	**5.51**	**7.48**	**0.67**	**4**	1.77	4.57	6.73	8.15	7.48	8.86	M25x1.5
MVSI 9-2920E-S08	**A**	24.29	10.71	10.83	**6.10**	**8.86**	**0.87**	**4**	2.76	5.12	6.97	9.37	8.27	9.96	M25x1.5
MVSI 9-4640E-S02	**A**	26.22	12.64	12.20	**6.10**	**10.04**	**0.93**	**4**	3.03	6.18	7.01	10.91	8.46	11.61	M25x1.5
MVSI 9-6830E-S02	**A**	28.90	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	7.95	11.93	9.45	12.60	M32x1.5
MVSI 9-8400E-S02	**A**	31.34	13.66	13.39	**7.09**	**11.02**	**1.02**	**4**	3.15	6.50	9.17	11.93	9.45	12.60	M32x1.5
MVSI 9-9310E-S02	**A**	29.29	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	7.56	12.99	10.63	13.78	M32x1.5
MVSI 9-11700E-S02	**A**	33.07	14.57	15.35	**7.87**	**12.60**	**1.10**	**4**	3.54	7.09	9.45	12.99	10.63	13.78	M32x1.5
MVSI 9-21900E-S02	**C**	39.45	17.20	18.11	**4.92**	**14.96**	**1.54**	**6**	1.38	8.46	11.81	15.24	12.60	16.30	M32x1.5

tE (s) = set time tE from IEC/EN 60079-7. Ia/In = ratio between start-up current and maximum current.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

MVLS



Technical features

Power supply
Three phase tension from 200V to 690V at 50Hz or 60Hz; variable frequency from 20Hz to the nameplate frequency, at constant torque, with frequency inverter.

Polarities
8, 10 & 12 pole standard, 6 pole on request.

Reference Regulations and Directives
Low Voltage Directive 2006/95/CE;
EN/IEC 60034-1,
UL 1004-1, CSA C22.2 No.100, NEMA MG-1

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and on the operating conditions. For detailed information, contact our technical assistance office.

Centrifugal force
Range extended to 20900 lbs (93.7 kN), adjustable in continuous linear mode varying the position of eccentric weights.

Mechanical protection
IP66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262

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

Tropicalisation
Standard on all vibrators, with “drop by drop” trickle system.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C); higher or lower temperatures are possible on request.

Vibrator thermal protection
With thermal detectors with thermistors PTC 266°F (130°C) as standard on the whole MVLS range. Upon request different temperatures thermistors are available, as well as bimetallic thermal protection and anti-condensation heaters.

Fixing of the vibrator
In all positions and therefore without any restriction.

Lubrication
All vibrators are correctly lubricated at the factory and do not require further lubrication at their start-up.

Terminal box
Large terminal box to facilitate electrical connection.
Special shaped terminals allow for the power supply cable to be secured, whilst protecting it from loosening.

Electric motor
Three-phase asynchronous type. Designed for obtaining maximum torque values both at starting and when fully operational, to respond to the requirements of vibrating machines and particularly to those with dual mass for resonance systems.
Insulated windings by means of the “drop by drop” trickle system with class H resin. The rotor is die cast aluminum (squirrel cage).

Casing
In spheroidal cast iron.

Bearing flange
Carried out in spheroidal graphite cast iron or lamellar graphite cast iron. Relevant design was studied to convey the load to the casing in a uniform way.

Bearings
Custom made with special profile especially designed for Italvibras, suitable to withstand both high radial and axial loads.

Motor shaft
In treated steel alloy (isothermic hardening) resistant to stress.

Eccentric weights
They allow adjustment of the centrifugal force. It is achieved by means of a graduated scale expressing it as a percentage of the maximum centrifugal force.

The MVLS range is therefore highly specified for dual mass resonance vibrating machines as well as traditional brute force vibrating machines.

The range offers different values of centrifugal force at different speeds up to 17900 lbs (80kN).

Weight covers
Standard in aluminum alloy.

Painting/Coating
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours.

For further details please contact Italvibras Technical Assistance.
Technical features and models mentioned in this catalogue are indicative and not binding. Italvibras reserves the right to modify them without any obligation.

Certifications

CE
In conformity with the applicable European Community Directives.

EAC
Certification for the European-Asiatic Customs Union
N° TC N RU Д-IT.АЛ33.B.02527

c SA US
CAN/CSA Rules - C22.2, N° 100-95, Certificate N° LR 100948 Class 4211 01 - Motors and generators UL1004-1 Rotational electric machines - General requirements
Class II Div. 2, Groups FG (T3B)

c SA US
MVLS-C version
Class I Div.2, Groups ABCD
CAN/CSA Rules - C22.2

italvibras g.silingardi USA

MVLS

8 poles - 750/900 rpm

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602531	**MVLS 9-3320**	MVLS 075/1500-S90	184	•	144		**2295**	**3305**	299		0.85	1.0	3.00	3.10	6.40	5.50
602532	**MVLS 9-5150**	MVLS 075/2300-S90	215	•	224		**3565**	**5133**	396		1.7	2.0	5.10	5.10	4.10	4.30
602533	**MVLS 9-6890**	MVLS 075/3000-S90	256	□	300		**4775**	**6876**	473		4.2	5.0	7.30	7.50	5.50	6.1
602534	**MVLS 9-9330**	MVLS 075/4200-S90	256	□	406		**6460**	**9303**	506		6.3	7.5	12.20	12.00	5.70	6.20
602536	**MVLS 9-16600**	MVLS 075/7500-S90	286	□	723		**11496**	**16554**	1023		8.3	10.0	13.40	14.30	8.90	9.00

10 poles - 600/720 rpm

DESCRIPTION					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602965	**MVLS 7-1700**	MVLS 06/800-S90	184	•	116		**1180**	**1699**	312		0.90	1.0	3.40	3.40	5.10	4.40
602958	**MVLS 7-3330**	MVLS 06/1500-S90	184	•	226		**2297**	**3308**	334		0.90	1.0	3.40	3.40	5.10	4.40
602966	**MVLS 7-3290**	MVLS 06/1490-S90	215	•	224		**2282**	**3285**	396		1.7	2.0	4.60	4.60	4.10	3.50
602953	**MVLS 7-5110**	MVLS 06/2300-S90	215	•	348		**3543**	**5102**	427		1.7	2.0	4.60	4.60	4.10	3.50
602968	**MVLS 7-4400**	MVLS 06/2000-S90	256	□	300		**3054**	**4398**	484		2.5	3.0	5.80	6.10	8.20	6.70
602967	**MVLS 7-6600**	MVLS 06/2700-S90	256	□	406		**4135**	**5954**	506		2.6	3.0	6.80	8.40	10.3	7.30
602959	**MVLS 7-5940**	MVLS 06/3000-S90	256	□	448		**4567**	**6576**	484		4.3	5.0	6.00	6.10	6.40	6.70
602952	**MVLS 7-9400**	MVLS 06/4200-S90	256	□	643		**6544**	**9423**	653		4.3	5.0	8.60	8.40	7.00	7.30
602946	**MVLS 7-14700**	MVLS 06/6600-S90	286	□	998		**10159**	**14629**	946		6.4	7.5	11.2	11.2	5.80	6.10
602960	**MVLS 7-18000**	MVLS 06/8100-S90	286	□	1223		**12456**	**17937**	1067		8.3	10.0	13.3	14.0	7.00	5.70
602987	**MVLS 7-20000**	MVLS 06/9500-S90	286	□	1434		**14604**	**-**	1137		9.2	-	15.0	-	7.50	-

12 poles - 500/600 rpm

DESCRIPTION					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602957	**MVLS 6-2150**	MVLS 05/1000-S90	184	•	210		**1487**	**2141**	319		0.70	0.80	3.70	3.80	3.30	3.30
602949	**MVLS 6-3310**	MVLS 05/1500-S90	215	•	324		**2292**	**3301**	407		0.90	1.0	4.20	4.30	4.10	3.40
602950	**MVLS 6-5100**	MVLS 05/2300-S90	256	□	499		**3531**	**5085**	495		1.7	2.0	6.40	6.50	3.80	3.90
602951	**MVLS 6-6600**	MVLS 05/3000-S90	256	□	643		**4544**	**6544**	638		2.6	3.0	7.60	7.50	7.90	8.10
602947	**MVLS 6-9150**	MVLS 05/4200-S90	286	□	898		**6352**	**9147**	878		4.3	5.0	8.30	8.60	6.60	6.90
602948	**MVLS 6-14600**	MVLS 05/6600-S90	286	□	1434		**10141**	**14604**	1129		6.5	7.5	12.3	12.0	5.70	6.30

* Working moment = 2 x static moment. □ CSA certification on request, with feeding line included.

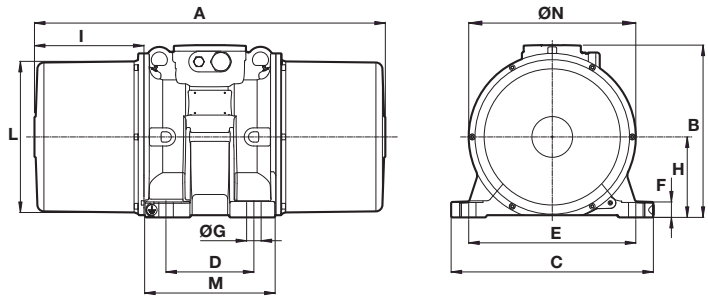


Fig. V

DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	A	B	C	D	E	ØG	N°	F	H	I	L	M	ØN	Cable entry thread
MVLS 9-3320	25.98	12.44	13.39	**6.30**	**11.02**	**1.02**	**4**	0.98	5.91	8.27	10.75	9.29	12.44	M25x1.5
MVLS 9-5150	23.78	13.82	15.35	**7.87**	**12.60**	**1.10**	**4**	1.18	6.38	5.98	11.93	11.57	13.39	M32x1.5
MVLS 9-6890	31.42	15.91	18.11	**7.87**	**14.96**	**1.30**	**4**	1.38	7.20	9.80	13.54	11.57	14.96	M32x1.5
MVLS 9-9330	31.42	15.91	18.11	**7.87**	**14.96**	**1.30**	**4**	1.38	7.20	9.80	13.54	11.57	14.96	M32x1.5
MVLS 9-16600	35.12	19.80	20.79	**7.87**	**17.32**	**1.30**	**4**	1.38	9.37	11.10	16.85	12.13	18.11	M32x1.5

DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	A	B	C	D	E	ØG	N°	F	H	I	L	M	ØN	Cable entry thread
MVLS 7-1700	25.98	12.44	13.39	**6.30**	**11.02**	**1.02**	**4**	0.98	5.91	8.27	10.75	9.29	12.44	M25x1.5
MVLS 7-3330	25.98	12.44	13.39	**6.30**	**11.02**	**1.02**	**4**	0.98	5.91	8.27	10.75	9.29	12.44	M25x1.5
MVLS 7-3290	27.95	13.82	15.35	**7.87**	**12.60**	**1.10**	**4**	1.18	6.38	8.07	11.93	11.57	13.39	M32x1.5
MVLS 7-5110	27.95	13.82	15.35	**7.87**	**12.60**	**1.10**	**4**	1.18	6.38	8.07	11.93	11.57	13.39	M32x1.5
MVLS 7-4400	31.42	15.91	18.11	**7.87**	**14.96**	**1.30**	**4**	1.38	7.20	9.80	13.54	11.57	14.96	M32x1.5
MVLS 7-6600	31.42	15.91	18.11	**7.87**	**14.96**	**1.30**	**4**	1.38	7.20	9.80	13.54	11.57	14.96	M32x1.5
MVLS 7-5940	31.42	15.91	18.11	**7.87**	**14.96**	**1.30**	**4**	1.38	7.20	9.80	13.54	11.57	14.96	M32x1.5
MVLS 7-9400	31.42	15.91	18.11	**7.87**	**14.96**	**1.30**	**4**	1.38	7.20	9.80	13.54	11.57	14.96	M32x1.5
MVLS 7-14700	35.12	19.80	20.79	**7.87**	**17.32**	**1.30**	**4**	1.38	9.37	11.10	16.85	12.13	18.11	M32x1.5
MVLS 7-18000	35.12	19.80	20.79	**7.87**	**17.32**	**1.30**	**4**	1.38	9.37	11.10	16.85	12.13	18.11	M32x1.5
MVLS 7-20000	35.12	19.80	20.79	**7.87**	**17.32**	**1.30**	**4**	1.38	9.37	11.10	16.85	12.13	18.11	M32x1.5

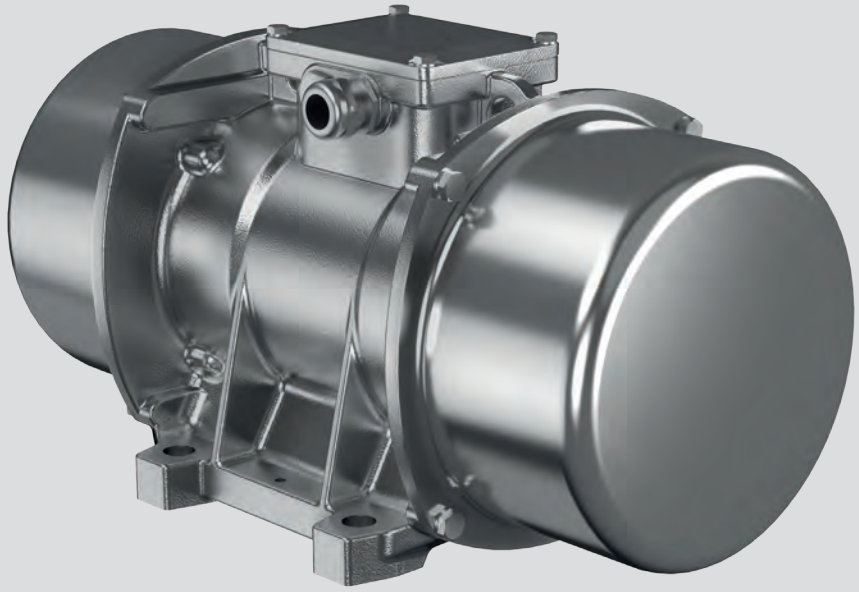
DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	A	B	C	D	E	ØG	N°	F	H	I	L	M	ØN	Cable entry thread
MVLS 6-2150	25.98	12.44	13.39	**6.30**	**11.02**	**1.02**	**4**	0.98	5.91	8.27	10.75	9.29	12.44	M25x1.5
MVLS 6-3310	27.95	13.82	15.35	**7.87**	**12.60**	**1.10**	**4**	1.18	6.38	8.07	11.93	11.57	13.39	M32x1.5
MVLS 6-5100	31.42	15.91	18.11	**7.87**	**14.96**	**1.30**	**4**	1.38	7.20	9.80	13.54	11.57	14.96	M32x1.5
MVLS 6-6600	31.42	15.91	18.11	**7.87**	**14.96**	**1.30**	**4**	1.38	7.20	9.80	13.54	11.57	14.96	M32x1.5
MVLS 6-9150	28.27	19.80	20.79	**7.87**	**17.32**	**1.30**	**4**	1.38	9.37	11.10	16.85	12.13	18.11	M32x1.5
MVLS 6-14600	35.12	19.80	20.79	**7.87**	**17.32**	**1.30**	**4**	1.38	9.37	12.05	16.85	12.13	18.11	M32x1.5

Ia/In = ratio between start-up current and maximum current.

MVSS



Technical features

Power supply
Three-phase voltage from 24V to 690V, 50Hz or 60Hz or single-phase 100-130V, 60Hz and 200-240V, 50Hz (single-phase types are supplied without capacitor); suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile.

Polarity
2, 4, 6 and 8 poles.

Conformity with Standards and Regulations
MVSS - Low Voltage Directive 2006/95/EC; EN/IEC 60034-1; UL 1004-1, CSA C22.2 No.100, NEMA MG-1.
MVSS-P - Low Voltage Directive 2006/95/EC; ATEX Directive 2014/34/UE; EN/IEC 60034-1, EN/IEC 60079-0, EN/IEC 60079-31, UL 1004-1, CSA C22.2 No.100, NEMA MG-1.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information, contact our technical assistance office.

Centrifugal force
Range extended up to 9500 lbs (42.4 kN), with centrifugal force adjustable from 0 to 100%.

Mechanical protection
IP 66 according to IEC/EN 60529.

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

Tropicalization
Standard on all vibrators, with vacuum encapsulation up to size 35, with “drop by drop” trickle system for larger sizes.

Ambient temperature
From -4°F to 104°F (-20°C to +40°C). Versions for higher or lower temperatures are available on request.

Vibrator thermal protection
Standard PTC rated thermistor heat detectors 266°F (130°C) on size 70, on request for smaller sizes. For MVSS-P series PTC 266°F (130°C) are standard for all types. On request, thermistors with different temperatures and anti-condensation heaters.

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Terminal box
Large fixed electrical connections, with terminal cover in stainless steel AISI 304. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

Electric motor
Three-phase and single-phase asynchronous type. Designed for maximum starting torques and torque curves specific to vibrating machines. Insulated windings using vacuum encapsulating up to size 35; using the “drop by drop” trickle system with class H resin for larger sizes. The rotor is die cast aluminium.

Casing
In stainless steel AISI 304, ball burnishing surface treated to make the surface more hydrophobic.

Bearing flange
Constructed in cast iron (spheroidal or grey) or in aluminium with steel bearing seat. The geometry of the flange transmits the load to the casing uniformly.

Bearings
The lower and upper bearings have been studied to support the relative load and therefore they have a particular geometry, especially designed and made for Italvibras.

The MVSS stainless steel series vibrators are characterized by their total protection from liquids, dusts, aggressive agents and contaminants, thanks to the AISI 304 stainless steel casing and external components.

It is therefore suitable for use in all food, chemical, pharmaceutical and others environments where the outer surface can be subject to corrosion by atmospheric or chemical / bacterial agents.

Line MVSS-P is available for potentially explosive dust atmospheres in conformity with ATEX Directive 2014/34/UE.

Category: II2D

Level of protection:

Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)

Temperature class:

See table

EC certificate:

LCIE 05 ATEX 6163 X

Zones of use:

21, 22

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

Eccentric weights
Allow continual adjustment of the centrifugal force. This adjustment is realized by a graduated scale, which expresses the centrifugal force as a percentage of the maximum centrifugal force.
A patented system, called ARS, prevents adjustment errors.

Weight covers
In stainless steel AISI 304 with thickness measuring 1.2 to 1.5mm, to unite mechanical resistance to the guaranteed protection of stainless steel.

Surface treatment
Ball burnishing surface treatment to obtain a low roughness, hydrophobic, bright and uniform external surface.

Other features
Identification plate in AISI 316L stainless steel.

For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications MVSS

CE
Compliance with the applicable European Union directives.

c SA us
Standard CAN/CSA – C22.2, N°.100-95,
Certificate n° LR 100948
Class 4211 01 - Motors and generators
UL 1004-1 – Rotating Electrical Machines – General Requirements
Class II Div.2, Groups FG (T3B)

EAC
Certification for Eurasian Customs Union
N° TC N RU Д-IT.АЛ33.B.02527

Certifications MVSS-P

CE
Compliance with the applicable European Union directives.

Ex
II2D (2014/34/UE)
Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
EN 60079-0
EN 60079-31

IECEx
Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
IEC 60079-0
IEC 60079-31

EAC
Certification for Eurasian Customs Union
N° TC RU C-IT.ГБ08.B.02190

italvibras g.silingardi USA

MVSS

2 poles - 3,000/3,600 rpm

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
600328	**MVSS 36-380**	MVSS 3/100-S02	00	•	1.05	1.05	**268**	**386**	17.2	17.2	0.18	0.18	0.35	0.30	2.68	3.00
600329	**MVSS 36-480**	MVSS 3/200-S02	01	•	1.76	1.41	**447**	**515**	18.0	17.6	0.18	0.18	0.35	0.30	2.68	3.00
600330	**MVSS 36-660**	MVSS 3/300-S02	10	•	2.61	1.96	**664**	**717**	27.5	26.4	0.24	0.26	0.60	0.50	3.47	4.20
600331	**MVSS 36-1050**	MVSS 3/500-S02	20	•	5.04	3.03	**1284**	**1109**	40.7	38.5	0.44	0.53	0.80	0.75	4.21	4.80
600515	**MVSS 36-1660**	MVSS 3/800-S08	30	•	6.48	4.86	**1649**	**1782**	55.0	52.8	0.67	0.70	1.10	1.00	3.83	6.00
600333	**MVSS 36-2530**	MVSS 3/1100-S02	35	•	9.56	6.35	**2431**	**2334**	66.0	63.8	1.1	1.2	1.75	1.75	3.63	4.00
600334	**MVSS 36-3280**	MVSS 3/1510-S02	40	•	13.3	8.87	**3399**	**3263**	87.1	83.6	1.5	1.9	2.30	2.00	4.95	6.12
600335	**MVSS 36-4100**	MVSS 3/2010-S02	50	•	17.8	11.1	**4530**	**4077**	107	102	2.2	2.2	3.50	3.00	4.62	6.00

Single-phase

					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	220V 50Hz	115V 60Hz	50Hz	60Hz
600328	**MVSS 36-380**	MVSS 3/100-S02	00	•	1.05	1.05	**268**	**386**	17.2	17.2	0.15	0.15	0.75	1.52	1.67	2.24
600329	**MVSS 36-480**	MVSS 3/200-S02	01	•	1.76	1.41	**447**	**515**	18.0	17.6	0.15	0.15	0.75	1.52	1.67	2.24
600330	**MVSS 36-660**	MVSS 3/300-S02	10	•	2.61	1.96	**664**	**717**	27.5	26.4	0.24	0.27	1.25	2.40	2.48	3.52
600331	**MVSS 36-1050**	MVSS 3/500-S02	20	•	5.04	3.03	**1284**	**1109**	40.7	38.5	0.46	0.48	2.30	4.50	3.35	4.22
600515	**MVSS 36-1660**	MVSS 3/800-S08	30	•	6.48	4.86	**1649**	**1782**	55.0	52.8	0.60	0.70	3.25	7.00	4.00	4.14

* Working moment = 2 x static moment.

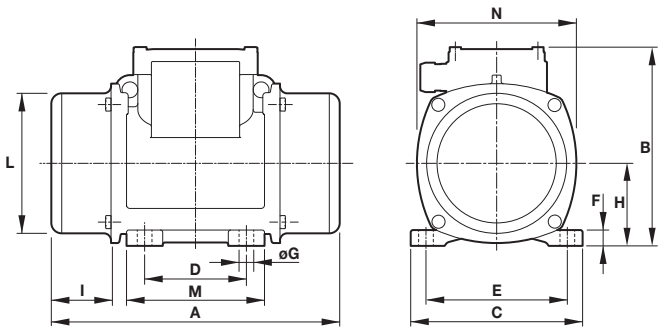


Fig. W

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
MVSS 36-380	**W**	8.23	5.94	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.39	2.40	1.77	3.94	3.94	4.61	-	-	M20x1.5
MVSS 36-480	**W**	8.86	5.94	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.39	2.40	2.09	3.94	3.94	4.61	-	-	M20x1.5
MVSS 36-660	**W**	10.04	6.93	5.98	**3.54**	**4.92**	**0.51**	**4**	0.55	2.87	2.13	4.88	4.80	5.55	-	-	M20x1.5
MVSS 36-1050	**W**	11.18	7.87	6.57	**4.13**	**5.51**	**0.51**	**4**	0.59	3.25	2.48	5.63	5.39	6.30	-	-	M25x1.5
MVSS 36-1660	**W**	12.13	8.07	8.07	**4.72**	**6.69**	**0.67**	**4**	0.67	3.68	2.48	6.61	6.22	7.17	-	-	M25x1.5
MVSS 36-2530	**W**	13.94	9.13	8.07	**4.72**	**6.69**	**0.67**	**4**	0.79	4.11	3.03	7.13	6.38	7.99	-	-	M25x1.5
MVSS 36-3280	**W**	17.24	9.65	9.06	**5.51**	**7.48**	**0.67**	**4**	0.98	4.57	4.06	7.91	7.09	8.86	-	-	M25x1.5
MVSS 36-4100	**W**	17.24	9.65	9.06	**5.51**	**7.48**	**0.67**	**4**	0.98	4.57	4.06	7.91	7.09	8.86	-	-	M25x1.5

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
MVSS 36-380	**W**	8.23	5.94	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.39	2.40	1.77	3.94	3.94	4.61	10	28	M20x1.5
MVSS 36-480	**W**	8.86	5.94	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.39	2.40	2.09	3.94	3.94	4.61	10	35	M20x1.5
MVSS 36-660	**W**	10.04	6.93	5.98	**3.54**	**4.92**	**0.51**	**4**	0.55	2.87	2.13	4.88	4.80	5.55	16	25	M20x1.5
MVSS 36-1050	**W**	11.18	7.87	6.57	**4.13**	**5.51**	**0.51**	**4**	0.59	3.25	2.48	5.63	5.39	6.30	12.5	50	M25x1.5
MVSS 36-1660	**W**	12.13	8.07	8.07	**4.72**	**6.69**	**0.67**	**4**	0.67	3.68	2.48	6.61	6.22	7.17	25	90	M25x1.5

Ia/In = ratio between start-up current and maximum current. **Slot.

MVSS

4 poles - 1,500/1,800 rpm

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
601342	**MVSS 18-100**	MVSS 15/35-S02	00	•	1.05	1.05	**67.1**	**96.6**	17.2	17.2	0.05	0.06	0.21	0.20	1.78	1.95
601343	**MVSS 18-180**	MVSS 15/80-S02	01	•	2.81	1.76	**179**	**161**	19.8	19.1	0.05	0.06	0.21	0.20	1.78	1.95
601365	**MVSS 18-250**	MVSS 15/100-S02	01	•	3.30	2.81	**210**	**257**	20.7	19.8	0.05	0.06	0.21	0.20	1.78	1.95
601344	**MVSS 18-480**	MVSS 15/200-S02	10	•	7.32	5.11	**469**	**471**	34.8	33.0	0.13	0.13	0.41	0.40	2.34	2.75
601345	**MVSS 18-920**	MVSS 15/400-S02	20	•	14.2	9.83	**906**	**904**	49.5	47.7	0.29	0.37	0.60	0.60	3.33	3.50
601346	**MVSS 18-1310**	MVSS 15/550-S02	20	•	19.0	14.2	**1214**	**1302**	52.6	49.5	0.29	0.37	0.60	0.60	3.33	3.50
601526	**MVSS 18-1670**	MVSS 15/700-S08	30	•	24.9	18.2	**1584**	**1672**	70.4	67.5	0.50	0.70	0.92	0.98	3.48	4.43
601348	**MVSS 18-2150**	MVSS 15/1100-S02	35	•	36.1	23.6	**2299**	**2160**	92.4	82.5	0.50	0.70	0.95	0.95	4.45	4.89
601349	**MVSS 18-3190**	MVSS 15/1410-S02	40	•	48.8	34.8	**3109**	**3188**	117	110	1.0	1.2	1.45	1.50	4.10	4.20
601350	**MVSS 18-3870**	MVSS 15/1710-S02	50	•	62.2	42.2	**3956**	**3865**	129	120	1.1	1.2	2.00	1.90	4.29	4.89
601351	**MVSS 18-4500**	MVSS 15/2000-S02	50	•	71.0	48.8	**4519**	**4473**	154	150	1.3	1.5	2.50	2.30	4.30	4.90
601352	**MVSS 18-5380**	MVSS 15/2410-S02	60	•	83.6	58.6	**5324**	**5377**	180	167	1.8	1.9	3.20	3.00	6.09	7.23
601353	**MVSS 18-6850**	MVSS 15/3000-S02	60	•	107	74.6	**6833**	**6835**	202	196	2.0	2.2	3.80	3.50	6.50	7.50
601354	**MVSS 18-8300**	MVSS 15/3810-S02	70	•	133	89.9	**8448**	**8237**	253	242	2.4	2.8	3.90	3.90	7.11	6.92
601363	**MVSS 18-9420**	MVSS 15/4300-S02	70	•	150	102	**9517**	**9350**	268	257	2.7	3.3	4.80	4.65	5.90	7.10

Single-phase

					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	220V 50Hz	115V 60Hz	50Hz	60Hz
601342	**MVSS 18-100**	MVSS 15/35-S02	00	•	1.05	1.05	**67.1**	**96.6**	17.2	17.2	0.05	0.05	0.43	1.00	1.20	1.30
601343	**MVSS 18-180**	MVSS 15/80-S02	01	•	2.81	1.76	**179**	**161**	19.8	19.1	0.05	0.05	0.43	1.00	1.20	1.30
601365	**MVSS 18-250**	MVSS 15/100-S02	01	•	3.30	2.81	**210**	**257**	20.7	19.8	0.05	0.05	0.43	1.00	1.20	1.30
601344	**MVSS 18-480**	MVSS 15/200-S02	10	•	7.32	5.11	**469**	**471**	34.8	33.0	0.15	0.15	1.00	2.00	1.50	1.85
601345	**MVSS 18-920**	MVSS 15/400-S02	20	•	14.2	9.83	**906**	**904**	49.5	47.7	0.16	0.24	1.20	2.80	2.50	2.21
601346	**MVSS 18-1310**	MVSS 15/550-S02	20	•	19.0	14.2	**1214**	**1302**	52.6	49.5	0.16	0.24	1.20	2.80	2.50	2.21
601526	**MVSS 18-1670**	MVSS 15/700-S08	30	•	24.9	18.2	**1584**	**1672**	55.0	50.6	0.32	0.41	2.15	5.15	5.44	3.63

* Working moment = 2 x static moment.

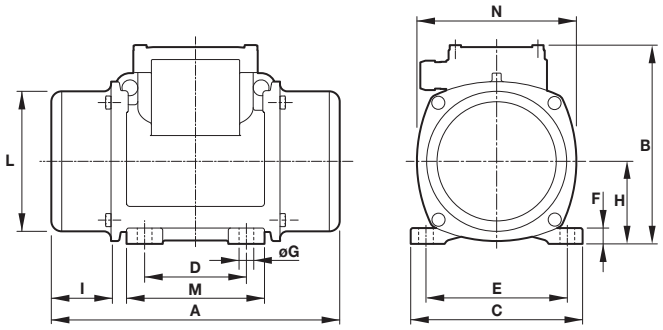


Fig. W

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
MVSS 18-100	**W**	8.23	5.94	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.39	2.40	1.77	3.94	3.94	4.61	-	-	M20x1.5
MVSS 18-180	**W**	9.49	5.94	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.39	2.40	2.40	3.94	3.94	4.61	-	-	M20x1.5
MVSS 18-250	**W**	9.49	5.94	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.39	2.40	2.40	3.94	3.94	4.61	-	-	M20x1.5
MVSS 18-480	**W**	11.61	6.93	5.98	**3.54**	**4.92**	**0.51**	**4**	0.55	2.87	2.91	4.88	4.80	5.55	-	-	M20x1.5
MVSS 18-920	**W**	13.39	7.87	6.57	**4.13**	**5.51**	**0.51**	**4**	0.59	3.25	3.58	5.63	5.39	6.30	-	-	M25x1.5
MVSS 18-1310	**W**	14.96	7.87	6.57	**4.13**	**5.51**	**0.51**	**4**	0.59	3.25	4.37	5.63	5.39	6.30	-	-	M25x1.5
MVSS 18-1670	**W**	15.04	8.07	8.07	**4.72**	**6.69**	**0.67**	**4**	0.67	3.68	3.94	6.61	6.22	7.17	-	-	M25x1.5
MVSS 18-2150	**W**	17.09	9.13	8.07	**4.72**	**6.69**	**0.67**	**4**	0.79	4.11	4.61	7.13	6.38	7.99	-	-	M25x1.5
MVSS 18-3190	**W**	17.40	9.65	9.06	**5.51**	**7.48**	**0.67**	**4**	0.98	4.57	4.13	7.91	7.09	8.86	-	-	M25x1.5
MVSS 18-3870	**W**	19.29	9.65	9.06	**5.51**	**7.48**	**0.67**	**4**	0.98	4.57	5.08	7.91	7.09	8.86	-	-	M25x1.5
MVSS 18-4500	**W**	22.05	9.65	9.06	**5.51**	**7.48**	**0.67**	**4**	0.98	4.57	6.46	7.91	7.09	8.86	-	-	M25x1.5
MVSS 18-5380	**W**	20.59	11.14	10.83	**6.10**	**8.86**	**0.87**	**4**	1.18	5.31	5.12	9.09	8.07	9.96	-	-	M25x1.5
MVSS 18-6850	**W**	23.66	11.14	10.83	**6.10**	**8.86**	**0.87**	**4**	1.18	5.31	6.65	9.09	8.07	9.96	-	-	M25x1.5
MVSS 18-8300	**W**	23.19	12.72	12.20	**6.10**	**10.04**	**0.93**	**4**	1.38	6.10	5.49	10.59	8.46	11.61	-	-	M25x1.5
MVSS 18-9420	**W**	23.19	12.72	12.20	**6.10**	**10.04**	**0.93**	**4**	1.38	6.10	5.49	10.59	8.46	11.61	-	-	M25x1.5

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
MVSS 18-100	**W**	8.23	5.94	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.39	2.40	1.77	3.94	3.94	4.61	3.15	25	M20x1.5
MVSS 18-180	**W**	8.86	5.94	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.39	2.40	2.40	3.94	3.94	4.61	3.15	25	M20x1.5
MVSS 18-250	**W**	9.49	5.94	4.92	**2.44-2.91****	**4.17**	**0.35**	**4**	0.39	2.40	2.40	3.94	3.94	4.61	3.15	25	M20x1.5
MVSS 18-480	**W**	11.61	6.93	5.98	**3.54**	**4.92**	**0.51**	**4**	0.55	2.87	2.91	4.88	4.80	5.55	5	25	M20x1.5
MVSS 18-920	**W**	13.39	7.87	6.57	**4.13**	**5.51**	**0.51**	**4**	0.59	3.25	3.58	5.63	5.39	6.30	12○ +20●	35	M25x1.5
MVSS 18-1310	**W**	14.96	7.87	6.57	**4.13**	**5.51**	**0.51**	**4**	0.59	3.25	4.37	5.63	5.39	6.30	12○ +20●	35○ +10●	M25x1.5
MVSS 18-1670	**W**	15.04	8.07	8.07	**4.72**	**6.69**	**0.67**	**4**	0.67	3.68	3.94	6.61	6.22	7.17	16○ +80●	40○ +120●	M25x1.5

Ia/In = ratio between start-up current and maximum current. **Slot. ○ Running capacitor / ● Additional capacitor only for start-up.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

MVSS

6 poles - 1,000/1,200 rpm

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
					Static moment*		Centrifugal force		Weight		Power Output		Max current		Ia/In	
					in-lbs		lbs		lbs		HP		A			
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602283	**MVSS 12-90**	MVSS 10/40-S02	10	•	2.61	2.61	**73.8**	**106**	27.5	27.5	0.07	0.12	0.30	0.30	1.90	2.07
602284	**MVSS 12-300**	MVSS 10/100-S02	10	•	7.32	7.32	**207**	**299**	34.8	34.8	0.07	0.12	0.30	0.30	1.90	2.07
602285	**MVSS 12-580**	MVSS 10/200-S02	20	•	14.2	14.2	**403**	**581**	49.5	49.5	0.13	0.16	0.50	0.50	2.72	3.10
602405	**MVSS 12-760**	MVSS 10/310-S08	30	•	24.9	18.2	**706**	**744**	70.4	67.5	0.29	0.36	0.72	0.68	2.63	2.79
602417	**MVSS 12-1630**	MVSS 10/550-S08	35	•	39.7	39.7	**1126**	**1621**	95.7	95.7	0.32	0.36	0.75	0.68	2.53	3.68
602408	**MVSS 12-1990**	MVSS 10/810-S08	40	•	62.9	48.8	**1780**	**1991**	119	116	0.60	0.69	1.40	1.35	2.79	3.33
602409	**MVSS 12-2530**	MVSS 10/1110-S08	50	•	88.0	62.2	**2490**	**2532**	147	131	0.74	0.75	1.65	1.50	3.33	4.13
602410	**MVSS 12-3100**	MVSS 10/1400-S08	50	•	111	80.1	**3133**	**3263**	172	156	0.87	0.87	1.80	1.70	3.05	3.65
602411	**MVSS 12-3410**	MVSS 10/1610-S08	60	•	127	83.6	**3604**	**3408**	207	183	1.1	1.3	2.20	2.20	4.21	4.05
602412	**MVSS 12-4700**	MVSS 10/2100-S08	60	•	168	115	**4739**	**4624**	231	205	1.5	1.6	3.00	2.75	3.42	4.00
602293	**MVSS 12-6050**	MVSS 10/2610-S02	70	•	202	150	**5722**	**6043**	286	255	2.1	2.3	4.10	3.75	5.35	5.60
602294	**MVSS 12-6600**	MVSS 10/3000-S02	70	•	234	169	**6615**	**6873**	319	286	2.3	2.7	4.50	4.30	4.35	4.81

8 poles - 750/900 rpm

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
					Static moment*		Centrifugal force		Weight		Power Output		Max current		Ia/In	
					in-lbs		lbs		lbs		HP		A			
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602561	**MVSS 9-340**	MVSS 075/150-S02	20	•	14.2	14.2	**229**	**328**	49.5	49.5	0.15	0.20	0.85	0.76	2.13	2.11
602647	**MVSS 9-550**	MVSS 075/260-S08	35	•	23.9	23.9	**383**	**550**	75.9	75.9	0.33	0.34	0.81	0.80	2.22	2.38
602627	**MVSS 9-910**	MVSS 075/400-S08	35	•	39.7	39.7	**634**	**913**	90.2	90.2	0.33	0.34	0.81	0.80	2.22	2.38
602620	**MVSS 9-1440**	MVSS 075/660-S08	40	•	62.9	62.9	**1003**	**1443**	119	119	0.28	0.35	1.20	1.20	2.38	2.58
602621	**MVSS 9-2030**	MVSS 075/910-S08	50	•	88.0	88.0	**1401**	**2017**	147	147	0.29	0.40	1.40	1.30	2.38	2.85
602622	**MVSS 9-2920**	MVSS 075/1310-S08	60	•	127	127	**2028**	**2919**	207	207	0.87	1.1	2.20	2.20	2.63	3.41
602567	**MVSS 9-4640**	MVSS 075/2110-S02	70	•	202	202	**3219**	**4635**	286	286	1.4	1.8	4.10	4.20	3.55	2.95

* Working moment = 2 x static moment.

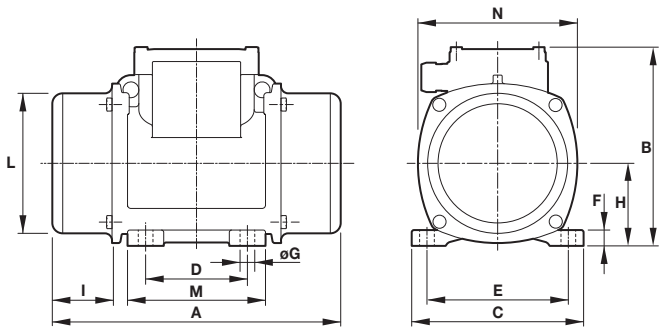


Fig. W

DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	Fig.	A	B	C	D	E	ØG	N°	F	H	I	L	M	N	Cable entry thread
MVSS 12-90	**W**	10.04	6.93	5.98	**3.54**	**4.92**	**0.51**	**4**	0.55	2.87	2.13	4.88	4.80	5.55	M20X1.5
MVSS 12-300	**W**	11.61	6.93	5.98	**3.54**	**4.92**	**0.51**	**4**	0.55	2.87	2.91	4.88	4.80	5.55	M20X1.5
MVSS 12-580	**W**	13.39	7.87	6.57	**4.13**	**5.51**	**0.51**	**4**	0.59	3.25	3.58	5.63	5.39	6.30	M25X1.5
MVSS 12-760	**W**	15.04	8.07	8.07	**4.72**	**6.69**	**0.67**	**4**	0.67	3.68	3.94	6.61	6.22	7.17	M25X1.5
MVSS 12-1630	**W**	17.09	9.13	8.07	**4.72**	**6.69**	**0.67**	**4**	0.79	4.11	4.61	7.13	6.38	7.99	M25X1.5
MVSS 12-1990	**W**	19.29(50Hz) 17.40(60Hz)	9.65	9.06	**5.51**	**7.48**	**0.67**	**4**	0.98	4.57	5.08(50Hz) 4.13(60Hz)	7.91	7.09	8.86	M25X1.5
MVSS 12-2530	**W**	22.05	9.65	9.06	**5.51**	**7.48**	**0.67**	**4**	0.98	4.57	6.46	7.91	7.09	8.86	M25X1.5
MVSS 12-3100	**W**	23.86(50Hz) 22.05(60Hz)	9.65	9.06	**5.51**	**7.48**	**0.67**	**4**	0.98	4.57	7.36(50Hz) 6.46(60Hz)	7.91	7.09	8.86	M25X1.5
MVSS 12-3410	**W**	23.66(50Hz) 20.59(60Hz)	11.22	10.83	**6.10**	**8.86**	**0.87**	**4**	1.18	5.31	6.65(50Hz) 5.12(60Hz)	9.09	8.07	9.96	M25X1.5
MVSS 12-4700	**W**	25.79(50Hz) 23.66(60Hz)	11.22	10.83	**6.10**	**8.86**	**0.87**	**4**	1.18	5.31	7.72(50Hz) 6.65(60Hz)	9.09	8.07	9.96	M25X1.5
MVSS 12-6050	**W**	25.87(50Hz) 23.19(60Hz)	12.72	12.20	**6.10**	**10.04**	**0.93**	**4**	1.38	6.10	6.83(50Hz) 5.49(60Hz)	10.59	8.46	11.61	M25X1.5
MVSS 12-6600	**W**	27.80	12.72	12.20	**6.10**	**10.04**	**0.93**	**4**	1.38	6.10	7.80	10.59	8.46	11.61	M25X1.5

DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	Fig.	A	B	C	D	E	ØG	N°	F	H	I	L	M	N	Cable entry thread
MVSS 9-340	**W**	13.39	7.87	6.57	**4.13**	**5.51**	**0.51**	**4**	0.59	3.25	3.58	5.63	5.39	6.30	M25X1.5
MVSS 9-550	**W**	13.94	9.13	8.07	**4.72**	**6.69**	**0.67**	**4**	0.79	4.11	3.03	7.13	6.38	7.17	M25X1.5
MVSS 9-910	**W**	17.17	9.13	8.07	**4.72**	**6.69**	**0.67**	**4**	0.79	4.11	4.65	7.13	6.38	7.99	M25X1.5
MVSS 9-1440	**W**	19.29	9.65	9.06	**5.51**	**7.48**	**0.67**	**4**	0.98	4.57	5.08	7.91	7.09	8.86	M25X1.5
MVSS 9-2030	**W**	22.05	9.65	9.06	**5.51**	**7.48**	**0.67**	**4**	0.98	4.57	6.46	7.91	7.09	8.86	M25X1.5
MVSS 9-2920	**W**	23.66	11.22	10.83	**6.10**	**8.86**	**0.87**	**4**	1.18	5.31	6.65	9.09	8.07	9.96	M25X1.5
MVSS 9-4640	**W**	25.87	12.72	12.20	**6.10**	**10.04**	**0.93**	**4**	1.38	6.10	6.83	10.59	8.46	11.61	M25X1.5

Ia/In = ratio between start-up current and maximum current.

MICRO

Technical features

Power supply
Three-phase voltage from 24V to 480V (except M-16), 50Hz or 60Hz or single phase 100-130V, 200-240V, 50/60Hz (in the standard single-phase version, the capacitor is already included in a case along the power supply cable); suitable for use with an inverter from 20 to 60Hz to the base frequency with constant torque load profile.

Polarity
2 poles.

Conformity with Standards and Regulations
Low Voltage Directive 2006/95/EC;
ATEX Directive 2014/34/UE; EN/IEC 60034-1, EN/IEC 60079-0, EN/IEC 60079-31,
UL 1004-1, CSA C22.2 No.100, NEMA MG-1.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information contact our technical assistance office.

Centrifugal force
Range extended up to 143 lbs (638N), with centrifugal force adjustable by varying eccentric weight position.

Mechanical protection
IP 65 according to IEC/EN 60529.

Insulation class
Class F (155°C).

Tropicalization
Standard on all vibrators.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C).

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
Sealed ball bearings, lubricated “for life”.

Electric motor
Three-phase and single-phase asynchronous type. The model M-16 can only be supplied in the single-phase version and does not require a capacitor. Models M-60 and M-140 can be supplied both in three-phase and single-phase versions. The capacitor is already included in a case along the power supply cable.

Casing
In high-tensile light aluminium alloy with polished surface. Different fixing holes available.

Eccentric weights
Thin plate-type, allow step-by-step adjustment through variation of the number of weights mounted or their rotation.

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS			
					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A 380-480V 50-60Hz	
Code	Type	Type (EU)	CSA	II3D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
600449	**M-60**	M3/20-S02	□	100°C	0.17	0.17	**44**	**64**	4.3	4.3	0.05	0.05	0.15	
600450	**M-140**	M3/45-S02	□	100°C	0.39	0.39	**99**	**143**	4.8	4.8	0.06	0.06	0.16	

Single-phase

					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A 220-240V 50Hz	Max current A 100-120V 60Hz
Code	Type	Type (EU)	CSA	II3D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		
600448	**M-16**	M3/4-S02	-	100°C	0.035	0.035	**8.8**	**13**	2.0	2.0	0.03	0.03	0.13	0.30
600449	**M-60**	M3/20-S02	□	100°C	0.17	0.17	**44**	**64**	4.3	4.3	0.05	0.05	0.17	0.42
600450	**M-140**	M3/45-S02	□	100°C	0.39	0.39	**99**	**143**	4.8	4.8	0.06	0.06	0.20	0.46

* Working moment = 2 x static moment. □ CSA certification on request, with feeding line included.

The MICRO series has been designed for continual industrial service in processes where a reduced centrifugal force and reduced overall vibrator size are required.

MICRO vibrators are used in many applications in feeding, transport, screening, sizing, separation processes, compaction in the automatic machines used in the chemical industry, food industry, pharmaceuticals, packaging and automation in general.

The MICRO series has been conceived to guarantee higher performance in all conditions and environments and complies with the most recent EN international standards for use in atmospheres with potentially explosive powders. In particular, the MICRO series can be used in area 22.

Category: II 3 D

Level of protection:

Ex tc IIIC T100°C Dc

Temperature class:

T100°C

Zone of use:

22

Weight covers
In stainless steel AISI 304.

Other features
All Micro series standard models are supplied with a power supply cable (2 meters for M-60 and M-140, 1 meter for M-16 and, in the models requiring it, a capacitor inserted into a special enclosure in-line with the cable. CSA certification can be supplied on request and the supplied product is not equipped with a capacitor (neither along the cable nor in other positions), therefore the user must install one as per Standard.

For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

Compliance with the applicable European Union directives.

II3D (2014/34/UE)
Ex tc IIIC T100°C Db
EN 60079-0
EN 60079-31

Standard CAN/CSA – C22.2, N°.100-95,
Certificate n° LR 100948
Class 4211 01 - Motors and generators
UL 1004-1 – Rotating Electrical Machines – General Requirements
Class II Div.2, Groups FG (T3B)

Certification for Eurasian Customs Union
N° TC N RU Д-IT.АЛ33.B.02527
N° TC RU C-IT.ГБ08.B.02190

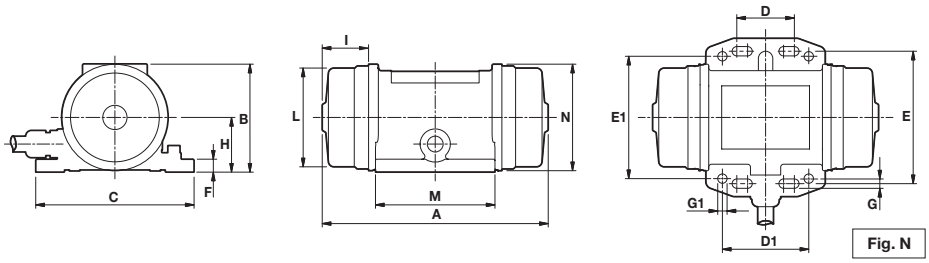


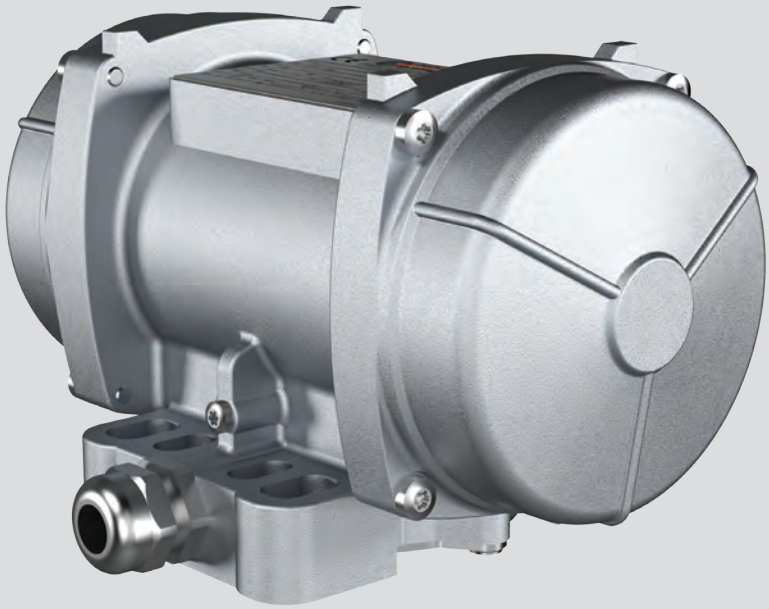
Fig. N

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Holes D	Holes D1	Holes E	Holes E1	Holes F	Holes G	Holes ØG1	Holes N°	H	I	L	M	N	Cable entry thread
M-60	**N**	6.18	2.95	4.33	**0.98-1.58**	**2.36**	**3.62**	**3.35**	**0.35**	**0.26**	**0.26**	**8**	1.50	1.30	2.72	3.27	2.91	M16x1.5
M-140	**N**	6.77	2.95	4.33	**0.98-1.58**	**2.36**	**3.62**	**3.35**	**0.35**	**0.26**	**0.26**	**8**	1.50	1.59	2.72	3.27	2.91	M16x1.5

Type	Fig.	A	B	C	Holes D	Holes D1	Holes E	Holes E1	Holes F	Holes G	Holes ØG1	Holes N°	H	I	L	M	N	Cable entry thread
M-16	**N**	4.45	2.62	3.54	**0.98-1.58**	**-**	**2.95**	**-**	**0.35**	**0.22**	**-**	**4**	1.34	0.98	2.36	2.32	2.56	M12x1.5
M-60	**N**	6.18	2.95	4.33	**0.98-1.58**	**2.36**	**3.62**	**3.35**	**0.35**	**0.26**	**0.26**	**8**	1.50	1.30	2.72	3.27	2.91	M16x1.5
M-140	**N**	6.77	2.95	4.33	**0.98-1.58**	**2.36**	**3.62**	**3.35**	**0.35**	**0.26**	**0.26**	**8**	1.50	1.59	2.72	3.27	2.91	M16x1.5

M3



Technical features

Power supply
Three-phase voltage from 24V to 690V, 50Hz o 60Hz or single-phase 100-130V, 60Hz and 200-240V, 50Hz; suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile.

Polarity
2 and 4 poles.

Conformity with Standards and Regulations
Low Voltage Directive 2006/95/EC;
ATEX Directive 2014/34/UE; EN/IEC 60034-1, EN/IEC 60079-0, EN/IEC 60079-31,
UL 1004-1, CSA C22.2 No.100, NEMA MG-1.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information contact our technical assistance office.

Centrifugal force
Range up to 660 kgf (2.94 kN). Centrifugal force can be changed by adjusting the eccenctric weights

Mechanical protection
IP 66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Insulation class
Class F (155°C).

Tropicalization
Standard with vacuum encapsulation.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C).

Vibrator thermal protection
On request with PTC thermistor rated heat detectors 130°C.

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
Sealed ball bearings, lubricated “for life”.

Terminal box
The terminal box is positioned underneath the vibrator, on the same side as the fixing base. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

Electric motor
Three-phase or single-phase asynchronous type. Insulated windings using vacuum encapsulating.
The rotor is die cast aluminium.

Casing
In high-tensile aluminium alloy, with sand blasted surface. Multiholes fixing base allow different fixing patterns.

Designed for continuous industrial duty, the M3 series features a compact shape, reduced overall dimensions (in comparison to MVSI series) and the terminal box underneath, ensuring high electrical protection in dusty environments. Multi-holes mounting feet enable M3 series to match several existing mounting plates. M3 series motors comply with the most recent international standards for use in explosive dust atmospheres. Particularly M3 series can be used in zones 21 and 22.

Category: II 2 D

Level of protection:
Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)

Temperature class:
T120°C

Zones of use:
21, 22

Bearing flange
In ductile cast iron.
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
Easily adjustable from 100% down to 0.

Weight covers
Made in die cast, high strength alluminium alloy with accurate surface sand blasting.

For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

CE
Compliance with the applicable European Union directives.

c SA US
Standard CAN/CSA – C22.2, N°.100-95,
Certificate n° LR 100948
Class 4211 01 - Motors and generators
UL 1004-1 – Rotating Electrical Machines – General Requirements
Class II Div.2, Groups FG (T3B)

Ex
II2D (2014/34/UE)
Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
EN 60079-0
EN 60079-31

IECEx
Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
IEC 60079-0
IEC 60079-31

EAC
Certification for Eurasian Customs Union
N° TC N RU Д-IT.АЛ33.B.02527
N° TC RU C-IT.ГБ08.B.02190

KCS
KOSHA Korea
Certificate n° 11-AVG BO-0359
Ex td A21 IP66

italvibras g.silingardi USA

M3

2 poles - 3,000/3,600 rpm

Three-phase

DESCRIPTION						MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
						Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		II2D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
600467	**M3-190**	M3/65-S02	00	•	120°C	0.56	0.56	**142**	**205**	9.5	9.5	0.12	0.11	0.27	0.23	3.43	3.90
600465	**M3-300**	M3/105-S02	00	•	120°C	0.84	0.84	**213**	**308**	11.4	11.4	0.18	0.18	0.35	0.30	2.68	3.00
600462	**M3-650**	M3/205-S02	00	•	120°C	1.76	1.76	**447**	**645**	13.2	13.2	0.18	0.18	0.35	0.30	2.68	3.00
600461	**M3-670**	M3/305-S02	00	•	120°C	2.59	1.76	**660**	**645**	13.9	13.2	0.18	0.18	0.35	0.30	2.68	3.00

Single-phase

						Static moment*		Centrifugal force		Weight		Power Output		Max current		Ia/In	
						in-lbs		lbs		lbs		HP		A			
Code	Type	Type (EU)	SIZE		II2D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	220V 50Hz	115V 60Hz	50Hz	60Hz
600467	**M3-190**	M3/65-S02	00	•	120°C	0.56	0.56	**142**	**205**	9.5	9.5	0.09	0.09	0.56	1.52	2.24	2.24
600465	**M3-300**	M3/105-S02	00	•	120°C	0.84	0.84	**213**	**308**	11.4	11.4	0.15	0.15	0.75	1.52	1.67	2.24
600462	**M3-650**	M3/205-S02	00	•	120°C	1.76	1.76	**447**	**645**	13.2	13.2	0.15	0.15	0.75	1.52	1.67	2.24
600461	**M3-670**	M3/305-S02	00	•	120°C	2.59	1.76	**660**	**645**	13.9	13.2	0.15	0.15	0.75	1.52	1.67	2.24

4 poles - 1,500/1,800 rpm

Three-phase

DESCRIPTION						MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
						Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	SIZE		II2D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
601514	**M15-100**	M15/36-S02	00	•	120°C	1.05	1.05	**67.1**	**96.4**	11.9	11.9	0.05	0.06	0.21	0.20	1.78	1.95
601515	**M15-180**	M15/81-S02	00	•	120°C	2.59	1.76	**165**	**161**	13.9	13.2	0.05	0.06	0.21	0.20	1.78	1.95

Single-phase

						Static moment*		Centrifugal force		Weight		Power Output		Max current		Ia/In	
						in-lbs		lbs		lbs		HP		A			
Code	Type	Type (EU)	SIZE		II2D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	220V 50Hz	115V 60Hz	50Hz	60Hz
601514	**M15-100**	M15/36-S02	00	•	120°C	1.05	1.05	**67.1**	**96.4**	11.9	11.9	0.05	0.05	0.43	1.00	1.20	1.30
601515	**M15-180**	M15/81-S02	00	•	120°C	2.59	1.76	**165**	**161**	13.9	13.2	0.05	0.05	0.43	1.00	1.20	1.30

* Working moment = 2 x static moment. Ia/In = ratio between start-up current and maximum current.

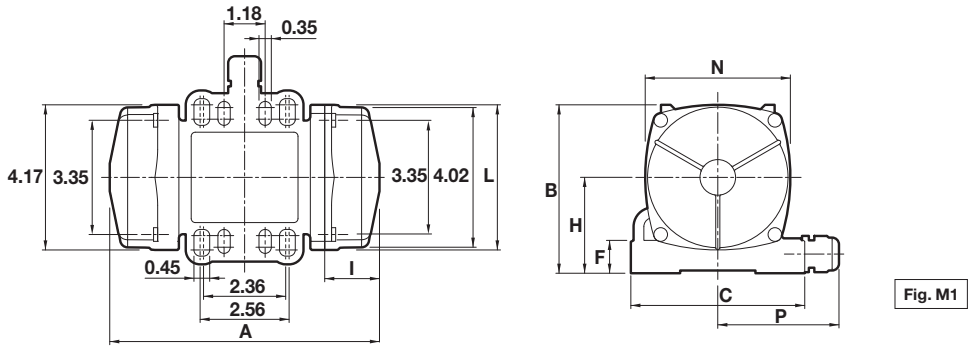


Fig. M1

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Multi-hole D	Multi-hole E	Holes ØG	Holes N°	F	H	I	ØL	M	N	P	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
M3-190	**M1**	7.76	4.84	5.00	**See drawing**		**0.35**	**4**	0.94	2.76	1.57	4.17	3.39	4.17	3.48	-	-	M20x1.5
M3-300	**M1**	8.31									1.85							
M3-650	**M1**	9.25									2.32							
M3-670	**M1**	9.25									2.32							

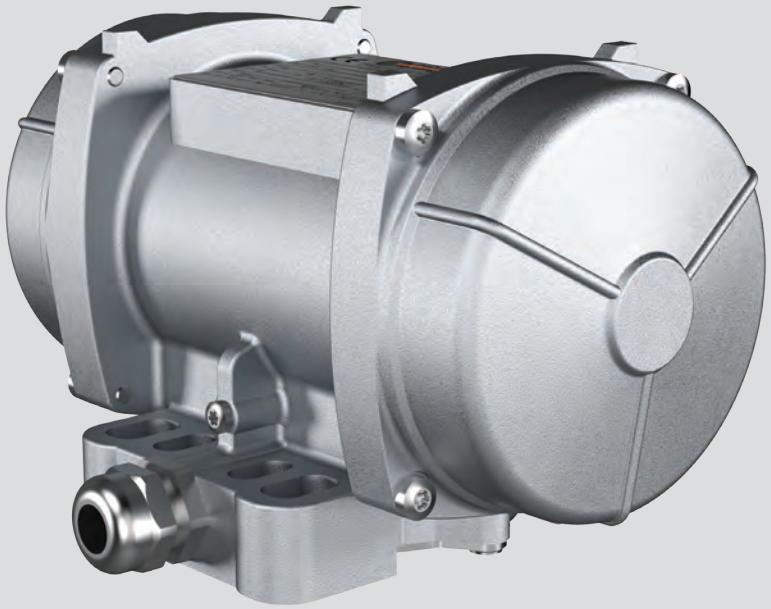
Type	Fig.	A	B	C	Multi-hole D	Multi-hole E	Holes ØG	Holes N°	F	H	I	ØL	M	N	P	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
M3-190	**M1**	7.76	4.84	5.00	**See drawing**		**0.35**	**4**	0.94	2.76	1.57	4.17	3.39	4.17	3.48	10	28	M20x1.5
M3-300	**M1**	8.31									1.85							
M3-650	**M1**	9.25									2.32							
M3-670	**M1**	9.25									2.32							

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Multi-hole D	Multi-hole E	Holes ØG	Holes N°	F	H	I	ØL	M	N	P	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
M15-100	**M1**	8.43	4.84	5.00	**See drawing**		**0.35**	**4**	0.94	2.76	2.32	4.17	3.39	4.17	3.48	-	-	M20X1.5
M15-180	**M1**	9.25																

Type	Fig.	A	B	C	Multi-hole D	Multi-hole E	Holes ØG	Holes N°	F	H	I	ØL	M	N	P	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread
M15-100	**M1**	8.43	4.84	5.00	**See drawing**		**0.35**	**4**	0.94	2.76	2.32	4.17	3.39	4.17	3.48	3.15	25	M20X1.5
M15-180	**M1**	9.25																

M3-E



Technical features

Power supply
Three-phase voltage 127/220V 50Hz, 200/346V 50Hz, or 210/363V 60 Hz; variable frequency (in presence of PTC thermistor) from 20Hz to the base frequency with constant torque load profile.

Polarity
2 poles.

Conformity with Standards and Regulations
ATEX Directive 2014/34/UE;
EN/IEC 60079-0, EN/IEC 60079-7,
EN/IEC 60079-31, EN/IEC 60034-1.

Quality Controls
The components that affect protection are 100% accurately controlled and recorded.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power.

Centrifugal force
Range up to 660 kgf (2.94 kN). Centrifugal force can be changed by adjusting the eccenctric weights.

Mechanical protection
IP 66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Insulation class
Class F (155°C).

Tropicalization
Standard with vacuum encapsulation.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C), on request it is possible to have vibrators for max. ambient temperatures of 131°F (+55°C).

Vibrator thermal protectIon
On request with PTC thermistor rated heat detectors 266°F (130°C).

Fixing of the vibrator
In all positions and therefore without restriction. The terminal box is positioned underneath the vibrator, on the same side as the fixing base.

Lubrication
Sealed ball bearing, lubricated “for life”.

Terminal box
The terminal box is positioned underneath the vibrator, on the same side as the fixing base. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

Electric motor
Three-phase asynchronous type. Insulated windings using vacuum encapsulating. The rotor is die cast aluminium.

Casing
In high-tensile aluminium alloy, with sand-blasted surface. Multiholes fixing base allow different fixing patterns.

2 poles - 3,000/3,600 rpm

Three-phase

DESCRIPTION				MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS									
				Static moment* in-lbs		Centrifugal force lbs		Weight lbs				Power Input W		Power Output HP		Max. current A		tE (s)	Ia/In
Code	Type	Type (EU)	SIZE	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	Temp. class (G)	Temp. class (D)	50Hz	60Hz	50Hz	60Hz	220V 50Hz	363V 60Hz		
6E0467	**M3/65E-S02**	M3/65E-S02	00	0.56	0.56	**142**	**205**	9.5	9.5										3.48
6E0465	**M3/105E-S02**	M3/105E-S02	00	0.84	0.84	**213**	**308**	11.4	11.4	T4	120°C	105	105	0.107	0.107	0.47	0.29	20	3.68
6E0462	**M3/205E-S02**	M3/205E-S02	00	1.76	1.76	**447**	**645**	13.2	13.2										3.68
6E0461	**M3/305E-S02**	M3/305E-S02	00	2.59	1.76	**660**	**645**	13.9	13.2										3.68

* Working moment = 2 x static moment. tE (s) = set time tE from IEC/EN 60079-7.

The M3-E is designed for use in industrial processes in environments with a potentially explosive atmosphere, caused by gas and dust, in compliance with ATEX Directive (2014/34/UE).

In particular, the M3-E can be used in areas 1 and 2 (gas) and in areas 21 and 22 (dusts) according to the layout and the following features:

Category: II2D & II2G

Level of protection:

Ex tb IIIC T120°C Db

Ex e IIC T4 Gb

Temperature class:

Gas: T4 (135°C)

Dust: 120°C

Zones of use:

1, 2, 21, 22

Bearing flange
In ductile cast iron. 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
Easily adjustable from 100% down to 0.

Weight covers
Made in die cast, high strength alluminum alloy with accurate surface sand blasting.

Other features
For the M3-E series, the user must fill the terminal box with suitable silicone, after having performed the connection.

Certifications

Compliance with the applicable European Union directives.

II2G II2D (2014/34/UE)
Ex e IIC T4 Gb
Ex tb IIIC T120°C Db
EN 60079-0
EN 60079-7
EN 60079-31

Ex tb IIIC T120°C Db
IEC 60079-0
IEC 60079-31

Certification for Eurasian Customs Union
N° TC RU C-IT.ГБ08.B.02190

KOSHA Korea
Certificate n° 11-AVG BO-0346/7/8/9/50/51
Ex e IIT3/T4
Ex td A21 IP66

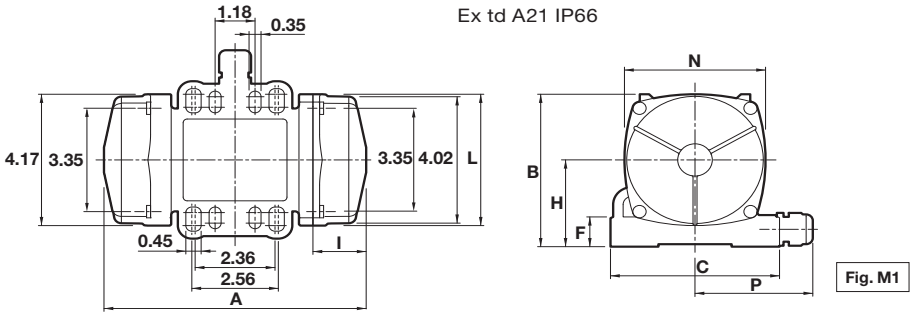


Fig. M1

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	D	E	ØG	N°	F	H	I	L	M	N	P	Cable entry thread
					Multi-hole		Holes									
M3/65E-S02	**M1**	7.76	4.84	5.00	**See drawing**		**0.35**	**4**	0.945	2.756	1.57	4.173	3.386	4.173	3.484	M20x1.5
M3/105E-S02	**M1**	8.31									1.85					
M3/205E-S02	**M1**	9.25									2.32					
M3/305E-S02	**M1**	9.25									2.32					

Ia/In = ratio between start-up current and maximum current.

CDX

The CDX explosion proof vibrators have been designed for use in industrial processes with a potentially explosive atmosphere.

The enclosure of the CDX vibrators is characterized by increased thickness and joints to prevent the transmission of an internal explosion to the surrounding area.

The CDX series is characterized and enhanced by many different certifications, depending on the vibrator model, as shown in these pages.

Technical features

Power supply
Three-phase voltage from 24V to 690V (limit at 600V for UL and CSA certifications), 50Hz or 60Hz, or single-phase 100-130V 60Hz and 200-240V 50Hz; suitable for use with a PWM inverter from 20Hz to the base frequency with constant torque load profile.

Polarity
2, 4, 6 and 8 poles.

Conformity with Standards and Regulations
ATEX Directive 2014/34/UE;
EN/IEC 60079-0, EN/IEC 60079-1, EN/IEC 60079-31, UL 674-886, CSA C22.2.
See also tables.

Quality Controls
The components that affect protection are 100% accurately controlled and recorded with traceability.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information, contact our technical assistance office.

Centrifugal force
Range extended to 49200 lbs (220 kN), with centrifugal force adjustable from 0 to 100%.

Mechanical protection
IP66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Insulation class
Class F (155°C).

Tropicalization
Standard on all vibrators, with vacuum encapsulation up to size 35, with “drop by drop” trickle system for larger sizes.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C). See also approval table for other ambient temperatures.

Vibrator thermal protection
With thermal protector at 266°F (130°C) for the entire CDX range, or on request with PTC thermistors rated heat detectors 266°F (130°C).

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Terminal box
Large terminal box to facilitate electrical connection. The terminal cover, with increased thickness, is constructed to contain internal explosions. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

Electric motor
Three-phase and single-phase asynchronous type. Insulated windings using vacuum encapsulating up to size 35; using the “drop by drop” trickle system with Class H resin for the larger sizes. The rotor is die cast aluminium.

Casing
In high-tensile aluminium alloy up to size 30, in spheroidal cast iron for larger sizes.

Bearing flange
In spheroidal or grey cast iron.
The geometry of the flange transmits the load to the casing uniformly.

Bearings
Custom made with particular geometry, especially designed for Italvibras, suitable to support both high radial and axial loads.

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

Eccentric weights
Allow adjustment of the centrifugal force. This adjustment is realized by a graduated scale, which expresses the centrifugal force as a percentage of the maximum centrifugal force.
A patented system, called ARS, prevents adjustment errors.

The CDX-G series, available in CDX frame sizes 35 to 80, is specifically designed for use in industrial processes in a potentially explosive gas atmosphere, among other applications they are commonly used on oil and gas drilling rigs. The CDX-G series has weight covers and terminal box covers with special protection coatings; weight covers can be supplied in stainless steel upon request.

Approvals	series CDX	series CDX-G
c UL us	Class I, Groups CD. Class II, Groups EFG. Temp. Class T4 (135°C) (Amb. Temp. -20°C÷+40°C)	Class I, Groups CD. Temp. Class T2C (230°C) (Amb. Temp. -20°C÷+60°C)
Ex IECEx	ATEX II2G Ex d IIB 120°C Gb II2D Ex tb IIIC T120°C Db (Amb. Temp. -20°C÷+40°C)	ATEX II2G Ex d IIB 160°C Gb (Amb. Temp. -20°C÷+60°C)
	Ex d IIB 120°C Gb Ex tb IIIC T120°C Db (Amb. Temp.-20°C÷+40°C)	Ex d IIB 160°C Gb (Amb. Temp. -20°C÷+60°C)
Notes	Version with Amb. Temp. -20°C to +60°C and other temperature classes is available.	Version with cULus temperature class T3C (160°c) with thermal protection is available.

Weight covers
In aluminium alloy.
Special coatings provided on CDX-G types.
On request available also in stainless steel for CDX-G types.

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours.

Other features
The CDX series is supplied without cable gland and with NPT threaded conduit opening.

Other mounting bolt patterns are available. For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

CE
Compliance with the applicable European Union directives.

c UL us
Certificate: E129825
Class I, Groups CD
Class II, Groups EFG
Temp. Class T4 (135°C)
UL Standard N°674-886, CSA C22.2

Ex
Certificate: DEMKO 07 ATEX 0612032X
II2D Ex tb IIIC T120°C Db
II2G Ex d IIB 120°C Gb
ATEX Directive 2014/34/UE
EN 60079-0, EN 60079-1, EN 60079-31

IECEx
Certificate: IECEx UL 09.0034X
Ex tb IIIC T120°C Db
Ex d IIB 120°C Gb
IEC 60079-0, IEC 60079-1, IEC 60079-31

c SP us
Certificate: LR 100948
Class I, Groups CD
Class II, Groups EFG
Temp. Class T4 (135°C)
CSA Standard C22.2 , UL N°674-886

EAC
Certification for Eurasian Customs Union
N° TC RU C-IT.ГБ08.B.02190

KCs
KOSHA Korea
Certificati n° 11-AV4BO-0353/4/5/6/7/8/60
Ex d IIB 120°C
Ex td A21 IP66 T120°C

italvibras g.silingardi USA

CDX

2 poles - 3,000/3,600 rpm

Three-phase

DESCRIPTION				Certifications					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS							
									Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Input W		Power Output HP		Max. current A		Ia/In	
Code	Type	Type (EU)	SIZE						50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
600384	**CDX 36-650**	CDX 3/300-G/D	10	•					2.61	1.96	**664**	**717**	25.3	24.2	260	270	0.24	0.25	0.60	0.50	3.47	4.20
600385	**CDX 36-1040**	CDX 3/500-G/D	20	•					5.04	3.03	**1284**	**1109**	37.4	35.2	450	500	0.44	0.52	0.80	0.75	4.21	4.80
600387	**CDX 36-1660**	CDX 3/800-G/D	30	•					6.48	4.86	**1649**	**1782**	51.3	49.3	650	685	0.67	0.70	1.10	1.00	3.83	6.00
600389	**CDX 36-2530**	CDX 3/1100-G/D	35		•	•	•	•	9.56	6.35	**2431**	**2334**	74.8	72.6	600	710	0.64	0.74	0.90	0.93	4.78	4.96
600437	**CDX 36-3530**	CDX 3/1500-G/D	50		•	•	•	•	14.0	9.65	**3575**	**3524**	119	113	1000	1200	1.1	1.2	1.62	1.72	6.00	6.32
600317	**CDX 36-4600**	CDX 3/2100-G/D	50		•	•	•	•	18.2	12.5	**4651**	**4576**	132	129	1000	1260	1.2	1.5	1.71	1.85	6.95	7.19
600320	**CDX 36-5060**	CDX 3/2300-G/D	60		•	•	•	•	19.3	13.8	**4919**	**5060**	182	175	2000	2200	2.0	2.2	3.23	3.20	7.47	8.60
600323	**CDX 36-7040**	CDX 3/3200-G/D	70		•	•	•	•	29.9	18.7	**7605**	**6846**	251	242	3100	3250	3.4	3.4	5.23	5.00	6.37	8.00
600486	**CDX 36-10500**	CDX 3/4700-G/D	80		•	•	•	•	40.8	28.6	**10362**	**10472**	328	317	4500	4500	4.9	4.9	7.13	6.60	6.53	7.00

Single-phase

				Certifications					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Input W		Power Output HP		Max. current A		Ia/In	
Code	Type	Type (EU)	SIZE						50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	220V 50Hz	115V 60Hz	50Hz	60Hz
600384	**CDX 36-650**	CDX 3/300-G/D	10	•					2.61	1.96	**664**	**717**	25.3	24.2	280	280	0.24	0.27	1.25	2.40	2.48	3.52
600385	**CDX 36-1040**	CDX 3/500-G/D	20	•					5.04	3.03	**1284**	**1109**	37.4	35.2	500	500	0.46	0.47	2.30	4.50	3.35	4.22
600387	**CDX 36-1660**	CDX 3/800-G/D	30	•					6.48	4.86	**1649**	**1782**	51.3	49.3	700	750	0.60	0.67	3.25	7.00	4.00	4.14

4 poles - 1,500/1,800 rpm

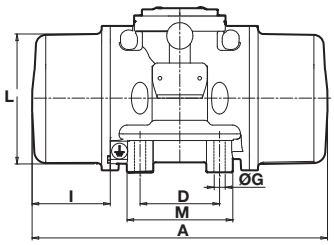
Three-phase

DESCRIPTION				Certifications					MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS							
									Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Input W		Power Output HP		Max. current A		Ia/In	
Code	Type	Type (EU)	SIZE						50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
601409	**CDX 18-470**	CDX 15/200-G/D	10	•					7.32	5.11	**469**	**471**	30.8	28.6	170	170	0.13	0.13	0.41	0.40	2.34	2.75
601410	**CDX 18-910**	CDX 15/400-G/D	20	•					14.2	9.83	**906**	**904**	47.1	44.0	300	350	0.29	0.37	0.60	0.60	3.33	3.50
601411	**CDX 18-1300**	CDX 15/550-G/D	20	•					19.0	14.2	**1214**	**1302**	50.2	47.1	300	350	0.29	0.37	0.60	0.60	3.33	3.50
601412	**CDX 18-1670**	CDX 15/700-G/D	30	•					24.9	18.2	**1584**	**1672**	66.7	63.8	525	665	0.51	0.66	0.92	0.98	3.48	3.43
601413	**CDX 18-2150**	CDX 15/1100-G/D	35		•	•	•	•	36.1	23.6	**2299**	**2160**	101	91.3	520	660	0.49	0.59	0.81	0.88	4.65	4.84
601424	**CDX 18-3190**	CDX 15/1410-G/D	50		•	•	•	•	48.8	34.8	**3109**	**3188**	139	129	750	1000	0.73	0.99	1.35	1.50	5.59	5.60
601328	**CDX 18-3850**	CDX 15/1710-G/D	50		•	•	•	•	62.2	42.2	**3956**	**3865**	149	144	1050	1300	1.2	1.5	1.81	1.90	5.09	5.46
601358	**CDX 18-4400**	CDX 15/2000-G/D	50		•	•	•	•	71.0	48.8	**4519**	**4473**	160	147	1050	1300	1.2	1.5	1.81	1.90	5.09	5.46
601329	**CDX 18-5380**	CDX 15/2410-G/D	60		•	•	•	•	83.6	58.6	**5324**	**5377**	216	202	1500	1650	1.7	2.0	2.95	2.90	7.80	7.76
601330	**CDX 18-8300**	CDX 15/3810-G/D	70		•	•	•	•	133	89.9	**8448**	**8237**	306	295	2270	2250	2.5	2.5	3.80	3.50	6.84	8.09
601623	**CDX 18-9420**	CDX 15/9420	70		•	•	•	•	150	102	**9517**	**9350**	315	301	2270	2250	2.5	2.5	3.80	3.50	6.84	8.09
601487	**CDX 18-10900**	CDX 15/5010-G/D	80		•	•	•	•	173	119	**11015**	**10870**	378	363	2800	2800	2.8	2.8	4.75	4.40	6.74	7.20

Single-phase

				Certifications					Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Input W		Power Output HP		Max. current A		Ia/In	
Code	Type	Type (EU)	SIZE						50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	220V 50Hz	115V 60Hz	50Hz	60Hz
601409	**CDX 18-470**	CDX 15/200-G/D	10	•					7.32	5.11	**469**	**471**	30.8	28.6	210	230	0.15	0.16	1.00	2.00	1.50	1.85
601410	**CDX 18-910**	CDX 15/400-G/D	20	•					14.17	9.83	**906**	**904**	47.1	44.0	240	320	0.16	0.24	1.20	2.80	2.50	2.50
601401	**CDX 18-1300**	CDX 15/550-G/D	20	•					19.04	14.17	**1214**	**1302**	50.2	47.1	240	320	0.16	0.24	1.20	2.80	2.50	2.50
601412	**CDX 18-1670**	CDX 15/700-G/D	30	•					24.87	18.17	**1584**	**1672**	66.7	63.8	450	550	0.32	0.40	2.15	5.15	5.44	3.63

* Working moment = 2 x static moment.



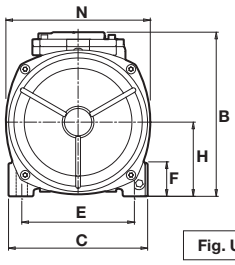
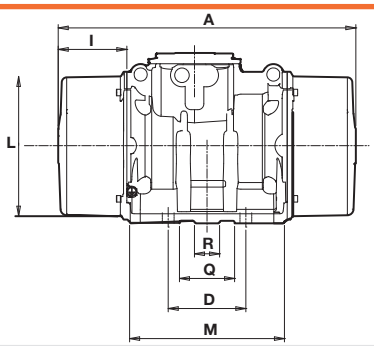


Fig. U



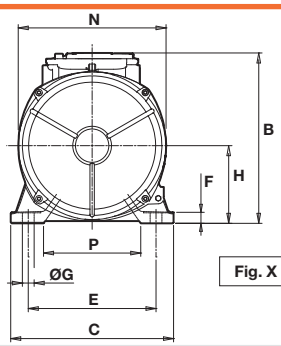


Fig. X

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	P	Q	R	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry
CDX 36-650	**U**	10.04	7.52	5.98	**3.54**	**4.92**	**13**	**4**	1.10	3.05	2.13	5.12	5.04	5.91	-	-	-	-	-	NPT 1/2”
CDX 36-1040	**U**	11.34	8.58	6.57	**4.13**	**5.51**	**13**	**4**	1.18	3.54	2.56	5.91	5.51	6.89	-	-	-	-	-	NPT 1/2”
CDX 36-1660	**U**	12.36	9.09	8.07	**4.72**	**6.69**	**17**	**4**	1.77	4.02	2.60	6.97	6.38	7.87	-	-	-	-	-	NPT 1/2”
CDX 36-2530	**U**	17.56	9.80	8.27	**4.72**	**6.69**	**17**	**4**	2.05	4.41	4.65	7.56	6.30	8.58	-	-	-	-	-	NPT 3/4”
CDX 36-3530	**X**	20.47	10.98	9.25	**5.51**	**7.48**	**22**	**4**	0.71	4.57	5.28	8.27	9.69	8.86	5.51	3.15	-	-	-	NPT 3/4”
CDX 36-4600	**X**	20.47	10.98	9.25	**5.51**	**7.48**	**22**	**4**	0.71	4.57	5.28	8.27	9.69	8.86	5.51	3.15	-	-	-	NPT 3/4”
CDX 36-5060	**X**	22.52	12.28	10.83	**6.10**	**8.86**	**22**	**4**	0.87	5.31	5.75	9.41	10.79	9.96	6.65	4.13	1.97	-	-	NPT 3/4”
CDX 36-7040	**X**	23.39	13.50	12.80	**6.10**	**10.04**	**23.5**	**4**	0.87	6.10	5.39	10.98	12.36	11.61	7.64	4.33	1.97	-	-	NPT 3/4”
CDX 36-10500	**X**	25.12	14.13	13.98	**7.09**	**11.02**	**26**	**4**	0.87	6.50	6.06	11.93	12.60	12.60	7.80	4.72	1.97	-	-	NPT 3/4”

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	P	Q	R	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry
CDX 36-650	**U**	10.04	7.52	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	3.05	2.13	5.12	5.04	5.91	-	-	-	16	25	NPT 1/2”
CDX 36-1040	**U**	11.34	8.58	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.54	2.56	5.91	5.51	6.89	-	-	-	12.5	50	NPT 1/2”
CDX 36-1660	**U**	12.36	9.09	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	4.02	2.60	6.97	6.38	7.87	-	-	-	25	90	NPT 1/2”

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	P	Q	R	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry
CDX 18-470	**U**	11.85	7.52	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	3.05	3.03	5.12	5.04	5.91	-	-	-	-	-	NPT 1/2”
CDX 18-910	**U**	13.78	8.58	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.54	3.78	5.91	5.51	6.89	-	-	-	-	-	NPT 1/2”
CDX 18-1300	**U**	15.43	8.58	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.54	4.61	5.91	5.51	6.89	-	-	-			NPT 1/2”
CDX 18-1670	**U**	15.51	9.09	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	4.02	4.17	6.97	6.38	7.87	-	-	-	-	-	NPT 1/2”
CDX 18-2150	**U**	17.56	9.80	8.27	**4.72**	**6.69**	**0.67**	**4**	2.05	4.41	4.65	7.56	6.30	8.58	-	-	-	-	-	NPT 3/4”
CDX 18-3190	**X**	20.47	10.98	9.25	**5.51**	**7.48**	**0.87**	**4**	0.71	4.57	5.28	8.27	9.69	8.86	5.51	3.15	-	-	-	NPT 3/4”
CDX 18-3850	**X**	20.47	10.98	9.25	**5.51**	**7.48**	**0.87**	**4**	0.71	4.57	5.28	8.27	9.69	8.86	5.51	3.15	-	-	-	NPT 3/4”
CDX 18-4400	**X**	23.39(50Hz) 20.47(60Hz)	10.98	9.25	**5.51**	**7.48**	**0.87**	**4**	0.71	4.57	6.73(50Hz) 5.28(60Hz)	8.27	9.69	8.86	5.51	3.15	-	-	-	NPT 3/4”
CDX 18-5380	**X**	22.52	12.28	10.83	**6.10**	**8.86**	**0.87**	**4**	0.87	5.31	5.75	9.41	10.79	9.96	6.65	4.13	1.97	-	-	NPT 3/4”
CDX 18-8300	**X**	23.39	13.50	12.80	**6.10**	**10.04**	**0.93**	**4**	0.87	6.10	5.39	10.98	12.36	11.61	7.64	4.33	1.97	-	-	NPT 3/4”
CDX 18-9420	**X**	23.39(50Hz) 20.47(60Hz)	13.50	12.80	**6.10**	**10.04**	**0.93**	**4**	0.87	6.10	7.01(50Hz) 5.39(60Hz)	10.98	12.36	11.61	7.64	4.33	1.97	-	-	NPT 3/4”
CDX 18-10900	**X**	25.12	14.13	13.98	**7.09**	**11.02**	**1.02**	**4**	0.87	6.50	6.06	11.93	12.60	12.60	7.80	4.72	1.97	-	-	NPT 3/4”

Type	Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	P	Q	R	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry
CDX 18-470	**U**	11.85	7.52	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	3.05	3.03	5.12	5.04	5.91	-	-	-	5	25	NPT 1/2”
CDX 18-910	**U**	13.78	8.58	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.54	3.78	5.91	5.51	6.89	-	-	-	12○ +20●	35	NPT 1/2”
CDX 18-1300	**U**	15.43	8.58	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.54	4.61	5.91	5.51	6.89	-	-	-	12○ +20●	35○ +10●	NPT 1/2”
CDX 18-1670	**U**	15.51	9.09	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	4.02	4.17	6.97	6.38	7.87	-	-	-	16○ +80●	40○ +120●	NPT 1/2”

Ia/In = ratio between start-up current and maximum current. ○Start-up capacitor / ●Running capacitor.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

CDX

6 poles - 1,000/1,200 rpm

Three-phase

DESCRIPTION				MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS							
				Certifications	Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Input W		Power Output HP		Max. current A		Ia/In	
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602315	**CDX 12-110**	CDX 10/40-G/D	10	•	2.61	2.61	**73.8**	**106**	25.3	25.3	120	135	0.07	0.12	0.30	0.30	1.90	2.07
602316	**CDX 12-220**	CDX 10/100-G/D	10	•	7.32	7.32	**207**	**299**	30.8	30.8	120	135	0.07	0.12	0.30	0.30	1.90	2.07
602317	**CDX 12-575**	CDX 10/200-G/D	20	•	14.2	14.2	**403**	**581**	47.1	47.1	185	205	0.13	0.16	0.50	0.50	2.72	3.10
602318	**CDX 12-750**	CDX 10/310-G/D	30	•	24.9	18.2	**706**	**744**	66.7	63.8	350	380	0.29	0.36	0.72	0.68	2.63	2.79
602320	**CDX 12-1630**	CDX 10/550-G/D	35	• • • •	39.7	39.7	**1126**	**1621**	105	105	300	310	0.29	0.31	0.57	0.61	3.89	3.77
602325	**CDX 12-1990**	CDX 10/810-G/D	50	• • • •	62.9	48.8	**1780**	**1991**	151	139	570	680	0.50	0.59	1.24	1.30	4.00	3.69
602274	**CDX 12-2530**	CDX 10/1110-G/D	50	• • • •	88.0	62.2	**2490**	**2532**	169	154	700	870	0.65	0.73	1.52	1.65	4.15	4.24
602277	**CDX 12-3410**	CDX 10/1610-G/D	60	• • • •	127	83.6	**3604**	**3408**	240	216	1040	1250	0.99	1.2	2.09	2.10	4.93	5.24
602280	**CDX 12-6050**	CDX 10/2610-G/D	70	• • • •	202	150	**5722**	**6043**	330	299	1725	1800	2.0	2.0	3.80	3.70	5.40	6.03
602365	**CDX 12-8450**	CDX 10/3810-G/D	80	• • • •	298	207	**8417**	**8428**	451	411	2100	2300	2.3	2.5	4.75	4.75	4.19	4.67
602201	**CDX 12-45000**	CDX 10/22000-G	110	•	1741	1090	**49249**	**44458**	2042	1976	15600	19000	15.8	19.7	25.2	25.5	5.70	5.88

8 poles - 750/900 rpm

DESCRIPTION				MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS							
				Certifications	Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Input W		Power Output HP		Max. current A		Ia/In	
Code	Type	Type (EU)	SIZE		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602576	**CDX 9-330**	CDX 075/150-G/D	20	•	14.2	14.2	**229**	**328**	47.1	47.1	230	250	0.15	0.16	0.85	0.76	2.13	2.11
602577	**CDX 9-570**	CDX 075/250-G/D	30	•	24.9	24.9	**398**	**572**	66.7	66.7	350	380	0.25	0.28	1.10	1.05	2.03	2.29
602578	**CDX 9-910**	CDX 075/400-G/D	35	• • • •	39.7	39.7	**634**	**913**	105	105	300	300	0.20	0.20	0.57	0.58	2.47	2.50
602581	**CDX 9-1440**	CDX 075/660-G/D	50	• • • •	62.9	62.9	**1003**	**1443**	151	151	340	340	0.25	0.25	0.87	0.90	2.87	3.11
602552	**CDX 9-2020**	CDX 075/910-G/D	50	• • • •	88.0	88.0	**1401**	**2017**	165	165	420	500	0.31	0.35	1.00	1.10	2.91	2.91
602555	**CDX 9-2920**	CDX 075/1310-G/D	60	• • • •	127	127	**2028**	**2919**	240	240	750	850	0.64	0.75	1.52	1.90	3.68	3.05
602558	**CDX 9-4640**	CDX 075/2110-G/D	70	• • • •	202	202	**3219**	**4635**	330	330	1480	1500	1.4	1.5	3.52	3.45	3.58	3.91
602602	**CDX 9-6830**	CDX 075/3110-G/D	80	• • • •	297	297	**4734**	**6818**	451	451	1850	2100	1.8	1.9	4.85	5.00	4.21	4.70
602513	**CDX 9-49000**	CDX 075/22000-G	110	•	2490	2131	**39611**	**48822**	2233	2158	10000	13000	10.9	13.8	21.4	22.0	6.97	5.50

* Working moment = 2 x static moment.

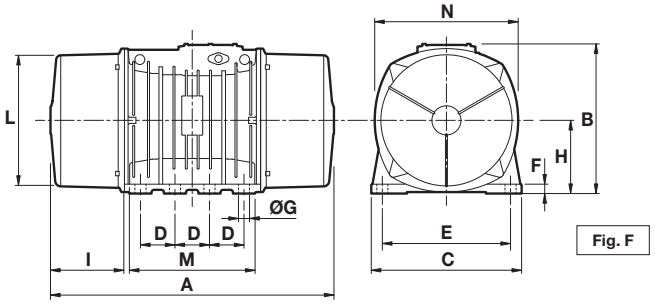
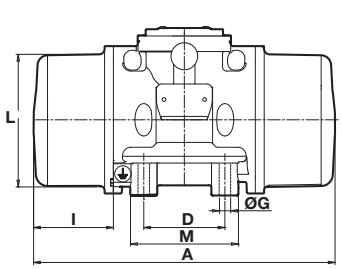


Fig. F



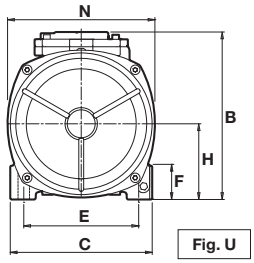


Fig. U

DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	Fig.	A	B	C	D	E	ØG	N°	F	H	I	L	M	N	P	Q	R	Cable entry
CDX 12-110	**U**	10.04	7.52	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	3.05	2.13	5.12	5.04	5.91	-	-	-	NPT 1/2”
CDX 12-220	**U**	11.85	7.52	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	3.05	3.03	5.12	5.04	5.91	-	-	-	NPT 1/2”
CDX 12-575	**U**	13.78	8.58	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.54	3.78	5.91	5.51	6.89	-	-	-	NPT 1/2”
CDX 12-750	**U**	15.51	9.09	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	4.02	4.17	6.97	6.38	7.87	-	-	-	NPT 1/2”
CDX 12-1630	**U**	17.56	9.80	8.27	**4.72**	**6.69**	**0.67**	**4**	2.05	4.41	4.65	7.56	6.30	8.58	-	-	-	NPT 3/4”
CDX 12-1990	**X**	23.39(50Hz) 20.47(60Hz)	10.98	9.25	**5.51**	**7.48**	**0.87**	**4**	0.71	4.57	6.73(50Hz) 5.28(60Hz)	8.27	9.69	8.86	5.51	3.15	-	NPT 3/4”
CDX 12-2530	**X**	23.39(50Hz) 20.47(60Hz)	10.98	9.25	**5.51**	**7.48**	**0.87**	**4**	0.71	4.57	6.73(50Hz) 5.28(60Hz)	8.27	9.69	8.86	5.51	3.15	-	NPT 3/4”
CDX 12-3410	**X**	24.96(50Hz) 22.52(60Hz)	12.28	10.83	**6.10**	**8.86**	**0.87**	**4**	0.87	5.31	6.97(50Hz) 5.75(60Hz)	9.41	10.79	9.96	6.65	4.13	1.97	NPT 3/4”
CDX 12-6050	**X**	26.61	13.50	12.80	**6.10**	**10.04**	**0.93**	**4**	0.87	6.10	7.01	10.98	12.36	11.61	7.64	4.33	1.97	NPT 3/4”
CDX 12-8450	**X**	28.90	14.13	13.98	**7.09**	**11.02**	**1.02**	**4**	0.87	6.50	7.95	11.93	12.60	12.60	7.80	4.72	1.97	NPT 3/4”
CDX 12-45000	**F**	45.28	24.17	24.02	**5.51**	**20.47**	**1.77**	**8**	1.50	11.69	11.71	21.34	20.08	22.91	-	-	-	NPT 1”

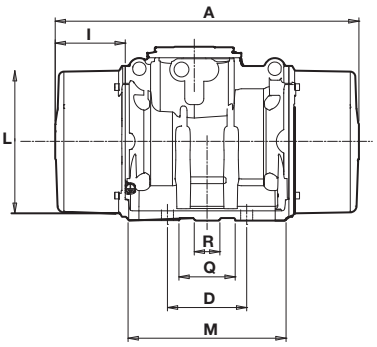
DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	Fig.	A	B	C	D	E	ØG	N°	F	H	I	L	M	N	P	Q	R	Cable entry
CDX 9-330	**U**	13.78	8.58	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.54	3.78	5.91	5.51	6.89	-	-	-	NPT 1/2”
CDX 9-570	**U**	15.51	9.09	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	4.02	4.17	6.97	6.38	7.87	-	-	-	NPT 1/2”
CDX 9-910	**U**	17.56	9.80	8.27	**4.72**	**6.69**	**0.67**	**4**	2.05	4.41	4.65	7.56	6.30	8.58	-	-	-	NPT 3/4”
CDX 9-1440	**X**	23.39	10.98	9.25	**5.51**	**7.48**	**0.87**	**4**	0.71	4.57	6.73	8.27	9.69	8.86	5.51	3.15	-	NPT 3/4”
CDX 9-2020	**X**	23.39	10.98	9.25	**5.51**	**7.48**	**0.87**	**4**	0.71	4.57	6.73	8.27	9.69	8.86	5.51	3.15	-	NPT 3/4”
CDX 9-2920	**X**	24.96	12.28	10.83	**6.10**	**8.86**	**0.87**	**4**	0.87	5.31	6.97	9.41	10.79	9.96	6.65	4.13	1.97	NPT 3/4”
CDX 9-4640	**X**	26.61	13.50	12.80	**6.10**	**10.04**	**0.93**	**4**	0.87	6.10	7.01	10.98	12.36	11.61	7.64	4.33	1.97	NPT 3/4”
CDX 9-6830	**X**	28.90	14.13	13.98	**7.09**	**11.02**	**1.02**	**4**	0.87	6.50	7.95	11.93	12.60	12.60	7.80	4.72	1.97	NPT 3/4”
CDX 9-49000	**F**	45.28	24.17	24.02	**5.51**	**20.47**	**1.77**	**8**	1.50	11.69	11.71	21.34	20.08	22.91	-	-	-	NPT 1”

Ia/In = ratio between start-up current and maximum current.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.



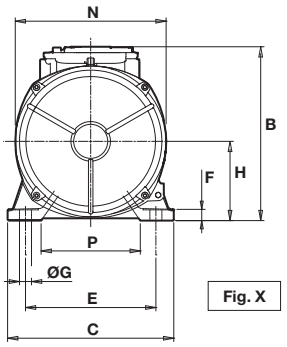


Fig. X

MVT/MVTX

These vibrators are available both in the MVT standard version and in the MVTX explosion-proof version.

They are commonly used on screens in various industrial sectors and the MVTX version has been designed for environments with potentially explosive atmospheres with particular reference to the oil field.

MVTX series is characterized by increased thickness and joints to prevent transmission of an internal explosion to the surrounding area.

Technical features

Power supply
Three-phase voltage up to 690V (maximum 600V for cULus), 50Hz or 60Hz (fixed) or variable frequency drive from 20Hz to the base frequency with constant torque load profile.

Polarity
4 poles typical. 2, 6, 8 poles are also available.

Conformity with Standards and Regulations
ATEX Directive 2014/34/UE;
EN/IEC 60079-0, EN/IEC 60079-1,
EN/IEC 60079-31, UL 674-886, CSA C22.2.
See also tables.

Quality Controls
The components that affect protection mode are 100% accurately controlled and report is recorded for complete traceability.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible, for detailed information contact our technical assistance office.

Centrifugal force
Range extended to 17400 lbs (77.8 kN), with centrifugal force adjustable by hand tools to find better screen performance.

Mechanical protection
IP66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Insulation class
Class F (155°C).

Tropicalization
Standard on all screen vibrators with “drop by drop” trickle system.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C).

Vibrator thermal protection
MVTX series equipped with 266°F (130°C) bimetallic thermal protector or, on request, with 266°F (130° PTC) thermistors. Thermal protection not included in MVT and MVTX-G series vibrators (available on request).

Fixing of the vibrator
Typical horizontal.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Terminal box
Large fixed electrical connections.
The terminal cover, with increased thickness, is designed to guarantee the seal with flame path joint for MVTX and MVTX-G series.

Electric motor
Three-phase asynchronous type.
Insulated windings using the “drop by drop” trickle system with Class H resin.
The rotor is die cast aluminum.

Casing
Made in three parts.
Central part in high-tensile aluminium alloy, external parts in
aluminum or spheroidal cast iron.

Bearing flange
In spheroidal or grey cast iron.
The geometry of the flange transmits the load to the casing uniformly.

Bearings
Custom made with particular geometry, especially designed for Italvibras, suitable to support both high radial and axial loads.

Motor shaft
Treated steel alloy (Isothermic hardening) resistant to stress.

The MVTX series is characterized by the cULus, ATEX, IECEx and EAC certifications.

The MVTX-G series is also derived from the MVTX series, specifically designed only for potentially explosive gas atmospheres, which are widely used on screen for drilling platforms and other applications.

The MVTX-G series is characterized by different temperature classes, see specifications alongside.

Approvals	series MVTX	series MVTX-G
c UL us	Class I, Groups CD. Class II, Groups EFG. Temp. Class T4 (135°C) (Amb. Temp. -20°C÷+40°C)	Class I, Groups CD. Temp. Class T3 (200°C) (Amb. Temp. -20°C÷+60°C)
Ex	ATEX II2G Ex d IIB 120°C Gb II2D Ex tb IIIC T105°C Db (Amb. Temp. -20°C÷+40°C)	ATEX II2G Ex d IIB 150°C Gb (Amb. Temp. -20°C÷+60°C)
IECEx	Ex d IIB 105°C Gb Ex tb IIIC T105°C Db (Amb. Temp.-20°C÷+40°C)	Ex d IIB 150°C Gb (Amb. Temp. -20°C÷+60°C)
Notes	Version with Amb. Temp. -20°C to +60°C and other temperature classes is available.	Version with cULus temperature class 125°C (ATEX & IECEx) and T3C - 160°c (cULus) with thermal protection is available.

Eccentric weights
Allow continual adjustment of the centrifugal force as a percentage of the maximum.

Weight covers
In aluminum alloy.

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C).
Tested in salt spray for 500 hours.

Other features
The MVT and MVTX series are supplied without cable gland and with NPT threaded conduit opening.

Other mounting bolt patterns are available. For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

CE
Compliance with the applicable European Union directives.

c UL us
Certificate: E129825
Class I, Groups CD
Class II, Groups EFG
Temp. Class T4 (135°C)
UL Standard N°674-886, CSA C22.2

Ex
Certificate: DEMKO 12 ATEX 1103487X
II2D Ex tb IIIC T105°C Db
II2G Ex d IIB 105°C Gb
ATEX Directive 2014/34/UE
EN 60079-0, EN 60079-1, EN 60079-31

IECEx
Certificate: IECEx UL 11.0043X
Ex tb IIIC T105°C Db
Ex d IIB 105°C Gb
IEC 60079-0, IEC 60079-1, IEC 60079-31

EAC
Certification for Eurasian Customs Union
N° TC RU C-IT.ГБ08.B.02190

italvibras g.silingardi USA

MVT / MVTX

4 poles - 1,500/1,800 rpm

Three-phase

DESCRIPTION				MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
				Static moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max. current A		Ia/In	
Code	Type	Type (EU)	SIZE	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
601535	**MVT 18-7700**	MVT 15/3500-S08	70	119	82.7	**7590**	**7700**	372	348	2.5	2.5	3.90	3.90	7.11	6.92
601646	**MVT 18-9700**	MVT 15/4400-S08	70	152	106	**9680**	**9680**	392	365	2.5	2.5	3.90	3.90	7.11	6.92
601537	**MVT 18-10900**	MVT 15/5000-S08	80	173	121	**11015**	**11051**	517	484	3.7	3.7	6.00	5.00	7.02	8.00
601648	**MVT 18-17500**	MVT 15/7900-S08	90	274	191	**17446**	**17446**	627	594	-	-	-	-	-	-

Three-phase

DESCRIPTION								MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS							
				Certifications				Static Moment* in-lbs		Centrifugal force lbs		Weight lbs		Power Input W		Power Output HP		Max. Current A		Ia/In	
Code	Type	Type (EU)	SIZE					50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
601573	**MVTX 18-7700**	MVTX 15/3500-G/D	70	•	•	•	•	119	82.7	**7590**	**7700**	372	348	2270	2250	2.5	2.5	4.00	3.50	6.50	8.10
601649	**MVTX 18-9700**	MVTX 15/4400-G/D	70	•	•	•	•	152	106	**9680**	**9680**	392	365	2270	2250	2.5	2.5	4.00	3.50	6.50	8.10
601574	**MVTX 18-10900**	MVTX 15/5000-G/D	80	•	•	•	•	173	121	**11015**	**11051**	517	484	3140	3130	3.5	3.5	5.40	4.85	7.80	9.90
601575	**MVTX 18-17500**	MVTX 15/7900-G/D	90	•	•	•	•	274	191	**17446**	**17446**	627	594	3650	4000	4.3	4.7	6.50	6.20	7.70	8.90

* Working moment = 2 x static moment.

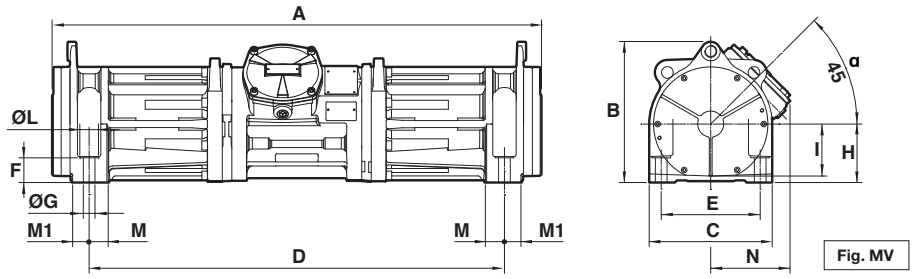


Fig. MV

DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	Fig.	A	B	C	D	D1	E	ØG	N°	F	H	I	ØL	M	M1	N	N1	α	Cable entry
MVT 18-7700	**MV**	44.49	12.80	11.18	**37.76**	**-**	**9.00**	**1.06**	**4**	2.24	5.31	4.72	1.69	1.73	1.50	7.24	-	45°	NPT 3/4”
MVT 18-9700	**MV**	44.49	12.80	11.18	**37.76**	**-**	**9.00**	**1.06**	**4**	2.24	5.31	4.72	1.69	1.73	1.50	7.24	-	45°	NPT 3/4”
MVT 18-10900	**MV2**	58.31	14.45	11.18	**44.09**	**4.02**	**9.25**	**0.87**	**8**	2.28	6.30	4.72	1.57	-	1.83	7.64	12.09	45°	NPT 3/4”
MVT 18-17500	**MV2**	56.57	15.71	12.99	**31.50**	**9.45**	**11.02**	**0.87**	**8**	2.28	7.09	4.72	1.57	-	1.83	6.73	13.78	60°	NPT 3/4”

DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	Fig.	A	B	C	D	D1	E	ØG	N°	F	H	I	ØL	M	M1	N	N1	α	Cable entry
MVTX 18-7700	**MV**	44.49	12.80	11.18	**37.76**	**-**	**9.00**	**1.06**	**4**	2.24	5.31	4.72	1.69	1.73	1.50	7.24	-	45°	NPT 3/4”
MVTX 18-9700	**MV**	44.49	12.80	11.18	**37.76**	**-**	**9.00**	**1.06**	**4**	2.24	5.31	4.72	1.69	1.73	1.50	7.24	-	45°	NPT 3/4”
MVTX 18-10900	**MV2**	58.31	14.45	11.18	**44.09**	**4.02**	**9.25**	**0.87**	**8**	2.28	6.30	4.72	1.57	-	1.83	7.64	12.09	45°	NPT 3/4”
MVTX 18-17500	**MV2**	56.57	15.71	12.99	**31.50**	**9.45**	**11.02**	**0.87**	**8**	2.28	7.09	4.72	1.57	-	1.83	6.73	13.78	60°	NPT 3/4”

Ia/In = ratio between start-up current and maximum current.

Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

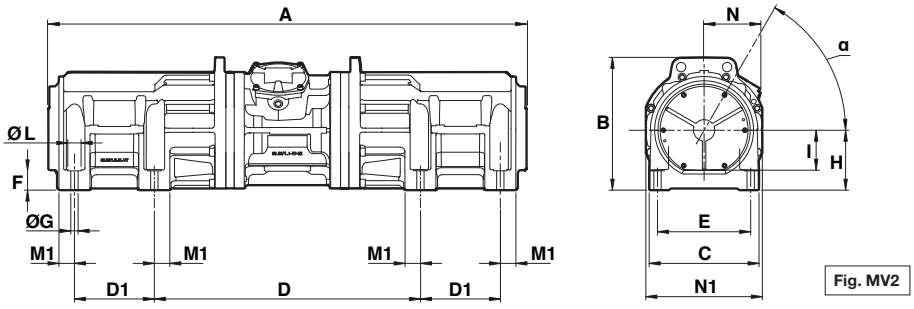
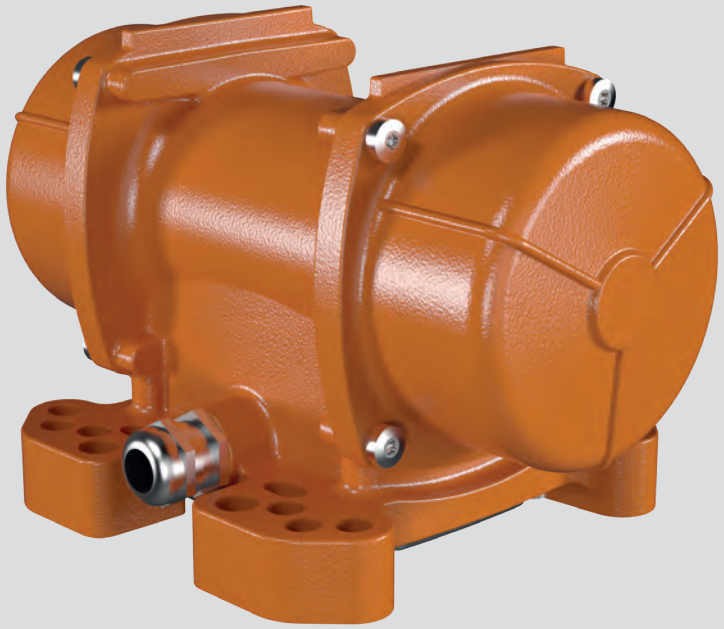


Fig. MV2

MVCC



Technical features

Power supply
In direct current at 12 or 24V.

Conformity with Standards and Regulations
Electromagnetic Compatibility Directive 2014/30/UE; EN 61000-6-2, EN 61000-6-4, EN 13309, EN 60034-1.

Functioning
Continuous (S1) or intermittent duty at maximum declared centrifugal force and electric power.

Centrifugal force
Range extended up to 3300 lbs (14,9 kN), with centrifugal force adjustable by varyiing weights position.

Mechanical protection
IP 66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C).

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
Sealed ball bearings, lubricated “for life”.

Terminal box
On MF models it’s positioned underneath the vibrator, on the same side as the fixing base.

Electric motor
For models 36-270 and 36-470, but in extension to the larger sizes, asynchronous three-phase type with vacuum insulated winding supplied in direct current through an electronic card included in the vibrator.

Casing
In high-tensile aluminium alloy.

Bearing flange
In spheroidal or grey cast iron. 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.

Weight covers
In aluminum alloy for models 36-270, 36-470 and 36-1100; in AISI 304 stainless steel for other types.

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours.

Direct current

DESCRIPTION				MECHANICAL SPECIFICATIONS			ELECTRICAL SPECIFICATIONS		
				Static Moment*	Centrifugal force	Weight	Power Output	Max. Current A	
Code	Type	Type (EU)	rpm	in-lbs	lbs	lbs	HP	12V	24V
600418	**MVCC 36-270 S08 MH**	MVCC 3/100-S08 MF	3000	1.05	**268**	12.5	0.16	8.00	4.00
600419	**MVCC 36-470 S08 MH**	MVCC 3/200-S08 MF	3000	1.76	**447**	13.9	0.16	8.00	4.00
600469	**MVCC 36-1100**	MVCC 3/500	3000	5.04	**1285**	28.6	0.29	22.5	11.3
600405	**MVCC 36-2500**	MVCC 3/1200	3600	6.78	**2486**	44.0	0.58	-	22.0
600464	**MVCC 36-3350**	MVCC 3/1500	3600	9.13	**3344**	46.2	0.58	-	22.0

* Working moment = 2 x static moment.

The new MVCC series of direct current vibrators has been designed for use in areas where network electricity is not available. In particular for hoppers, silos and gatecontrols and roll-on roll-off vehicles (concrete mixers, pumps for concrete, plasterers, salt distributors, gravel spreader, fertiliser spreader, hauled silos, industrial sweeper filters). Through continuous evolution of the direct current range, Italvibras has attained a patent for the invention of the new concept with power delivery through the electronic card, included in the vibrator.

The MF models have a multi-hole fixing base to adapt to different centre distances of drilling.

Other features
The MVCC series is supplied with a special high-resistance synthetic rubber power supply cable measuring 2.5 m.

For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

CE
Compliance with the applicable European Union directives.

EAC
Certification for Eurasian Customs Union
N° TC N RU Д-IT.АЛ33.B.02527

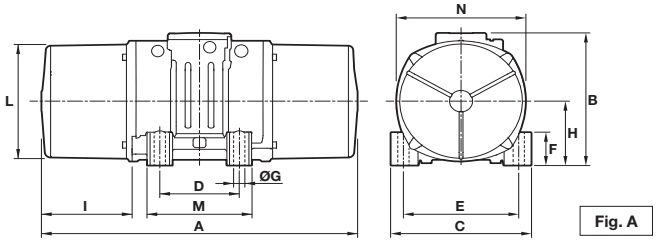


Fig. A

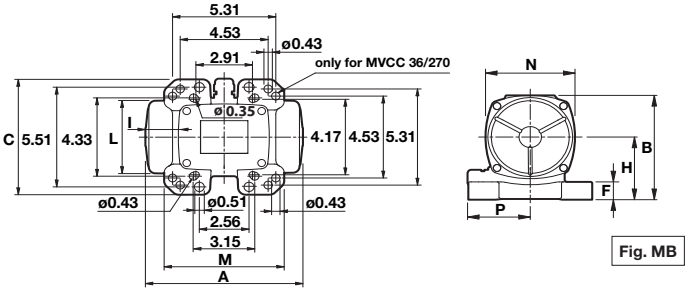
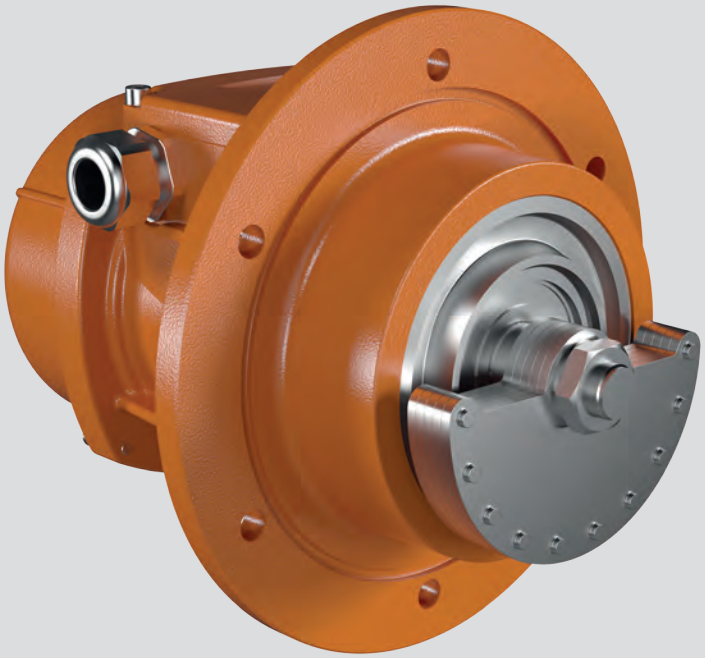


Fig. MB

DIMENSIONAL SPECIFICATIONS (inches)

Fig.	A	B	C	Holes D	Holes E	Holes ØG	Holes N°	F	H	I	L	M	N	P	Cable entry
MB	8.15	5.77	6.38	**See drawing MB**				0.98	3.46	1.81	4.06	6.22	4.61	3.15	M20x1.5
MB	9.09	5.77	6.38	**See drawing MB**				0.98	3.46	2.28	4.06	6.22	4.61	3.15	M20x1.5
A	11.34	7.99	6.57	**4.13**	**5.51**	**0.51**	**4**	1.18	3.25	2.56	5.71	5.75	6.30	-	M25x1.5
A	12.13	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	2.48	6.61	6.85	7.17	-	M25x1.5
A	12.13	8.31	8.07	**4.72**	**6.69**	**0.67**	**4**	1.77	3.68	2.48	6.61	6.85	7.17	-	M25x1.5

MTF



Technical features

Power supply
Three-phase voltage from 24V to 690V, 50Hz or 60Hz or single-phase 100-130V, 60Hz and 200-240V, 50Hz (single-phase types are supplied without capacitor); suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile.

Polarity
2 or 4 poles, other polarities on request.

Conformity with Standards and Regulations
Low Voltage Directive 2006/95/EC;
ATEX Directive 2014/34/UE; EN/IEC 60034-1, EN/IEC 60079-0, EN/IEC 60079-31,
UL 1004-1, CSA C22.2 No.100, NEMA MG-1.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information, contact our technical assistance office.

Centrifugal force
Range extended up to 5750 lbs (25.7 kN), with centrifugal force adjustable by varying weights position.

Mechanical protection
IP 66 according to IEC/EN 60529. Mechanical protection is ensured in the mounting phase of the vibrator onto the vibrating machine, by introducing the special seal into the seat on the coupling flange.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

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

Tropicalization
Standard on all vibrators, with vacuum encapsulation up to size 30, with “drop by drop” trickle system for larger sizes.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C). Versions for higher or lower temperatures are available on request.

Vibrator thermal protection
On demand with PTC rated thermistor heat detectors 266°F (130°C). Also on request thermistors with different temperatures and anti-condensation heaters.

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Electrical connection box
The small size guarantees passage of tools used for fixing the vibrator to the vibrating machine. The electrical connection must be carried out using the relative connectors inserted inside the connection box. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

Electric motor
Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to requirements of vibrating machines. Insulated windings through vacuum encapsulating up to size 30; using “drop by drop” trickle system with class H resin for larger sizes. The rotor is die cast aluminium.

Casing
In high-tensile aluminium alloy up to size 50, in spheroidal cast iron for size 70.

Bearing flange
Constructed in cast iron (spheroidal or grey) or in aluminium with steel bearing seat. The geometry of the flange transmits the load to the casing uniformly.

Bearings
The lower and upper bearings have been studied to support the relative load and therefore they have a particular geometry, especially designed and made for Italvibras.

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

The MTF series, made up of vertical vibrators with lateral flange and with weight protection covers fixed to the opposite part to the flange, adopts innovative technical solutions that increase performance and reliability.

Typically used in circular screens and in small and medium-size sieves, these vibrators are supplied with lamellar or clamped eccentric weights, with easy adjustability.

The MTF series complies with the most recent IEC and EN international standards for use in atmospheres with potentially explosive dust particles. In particular, the MTF series can be used in areas 21 and 22.

Category: II2D

Level of protection:

Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)

Temperature class:

see tables

EC certificate:

LCIE 05 ATEX 6163 X

Zones of use:

21, 22

Eccentric weights
Allow greater adjustment of the centrifugal force, with phase shift of the lower weight assembly with respect to the upper group. This adjustment is eased by a graduated scale, which expresses the centrifugal force as a percentage of the maximum centrifugal force.

Weight covers
In aluminium alloy, on request stainless steel cover in AISI 304 is available.

Painting / Surface coating
Electrostatic surface treatment based on epoxy polyester powder polymerised in oven at 392°F (200°C). Tested in salt spray for 500 hours.
On request also on MTF series other surface coatings may be available, see page 14.

For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

Compliance with the applicable European Union directives.

II2D (2014/34/UE)
Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
EN 60079-0
EN 60079-31

Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
IEC 60079-0
IEC 60079-31

Standard CAN/CSA – C22.2, N°.100-95,
Certificate n° LR 100948
Class 4211 01 - Motors and generators
UL 1004-1 – Rotating Electrical Machines – General Requirements
Class II Div.2, Groups FG (T3B)

Version MTF-C available on request
Class I Div.2, Groups ABCD
Standard CAN/CSA – C22.2

Certification for Eurasian Customs Union
N° TC N RU Д-IT.АЛ33.B.02527
N° TC RU C-IT.ГБ08.B.02190

KOSHA Korea
Certificate n° 11-AVG BO-0359
Ex td A21 IP66

MTF

2 poles - 3,000/3,600 rpm

Three-phase

DESCRIPTION						MECHANICAL SPECIFICATIONS				ELECTRICAL SPECIFICATIONS					
					II2D	Centrifugal force (A/B)* lbs		Weight lbs		Power Output HP		Max. current A		Ia/In	
Code	Type	Type (EU)	SIZE		Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
600375	**MTF 36-190**	MTF 3/65-S02	00	-	120°C	**68.2/68.2**	**96.8/96.8**	11.9	11.9	0.12	0.11	0.27	0.23	3.43	3.90
600369	**MTF 36-480**	MTF 3/200-S02	01	•	120°C	**224/224**	**257/257**	16.6	16.1	0.18	0.18	0.35	0.30	2.68	3.00
600370	**MTF 36-660**	MTF 3/300-S02	10	•	120°C	**332/332**	**359/359**	24.8	24.1	0.24	0.26	0.60	0.50	3.47	4.20
600378	**MTF 36-1050**	MTF 3/500-S02	20	•	120°C	**642/642**	**554/554**	33.2	31.2	0.44	0.53	0.80	0.75	4.21	4.80
600456	**MTF 36-1500**	MTF 3/700-S02	20	•	120°C	**770/770**	**739/739**	33.6	31.6	0.44	0.53	0.80	0.75	4.21	4.80
600380	**MTF 36-1680**	MTF 3/800-S02	30	•	120°C	**825/825**	**891/891**	37.6	36.5	0.67	0.71	1.10	1.00	3.83	6.00
600285	**MTF 36-2530**	MTF 3/1100-S90	40	•	120°C	**1217/1217**	**1166/1166**	57.5	55.3	1.0	1.2	1.70	1.60	6.79	7.00

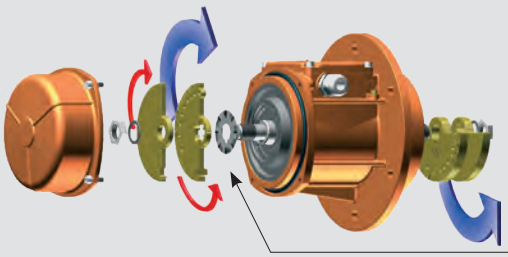
Single-phase

						Centrifugal force (A/B)* lbs		Weight lbs		Power Output HP		Max. current A		Ia/In	
					II2D										
Code	Type	Type (EU)	SIZE		Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	220V 50Hz	115V 60Hz	50Hz	60Hz
600375	**MTF 36-190**	MTF 3/65-S02	00	-	120°C	**68.2/68.2**	**96.8/96.8**	11.9	11.9	0.09	0.09	0.56	1.52	2.24	2.24
600369	**MTF 36-480**	MTF 3/200-S02	01	-	120°C	**224/224**	**257/257**	16.5	16.1	0.15	0.15	0.75	1.52	1.67	2.24
600370	**MTF 36-660**	MTF 3/300-S02	10	-	120°C	**332/332**	**359/359**	24.6	24.0	0.24	0.27	1.25	2.40	2.48	3.52
600378	**MTF 36-1050**	MTF 3/500-S02	20	-	120°C	**642/642**	**554/554**	33.0	31.0	0.46	0.48	2.30	4.50	3.35	4.22
600456	**MTF 36-1500**	MTF 3/700-S02	20	-	120°C	**770/770**	**739/739**	33.4	31.5	0.46	0.48	2.30	4.50	3.35	4.22
600380	**MTF 36-1680**	MTF 3/800-S02	30	-	120°C	**825/825**	**891/891**	37.4	36.3	0.60	0.68	3.25	7.00	4.00	4.14

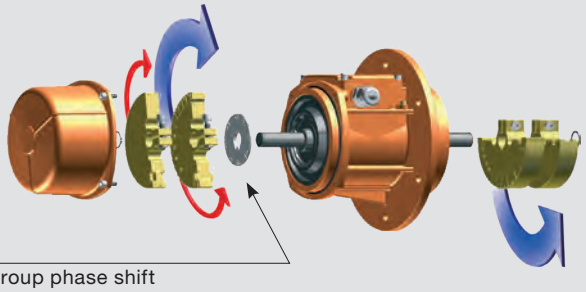
* Listed as A/B: total centrifugal force is the sum of centrifugal force of top weights (A) and centrifugal force of bottom weights (B). Ia/In = ratio between start-up current and maximum current.

Weight adjustment

Frontal fixing weights



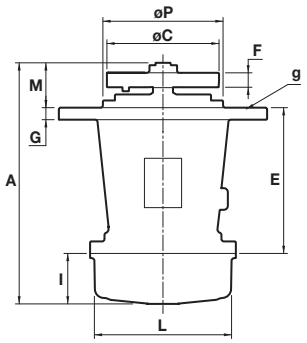
Clamp fixing weights



Graduated disks for upper and lower weight group phase shift

Regulation between upper and lower weight groups

Single weight phase shift



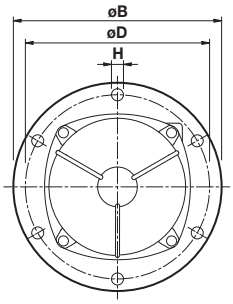
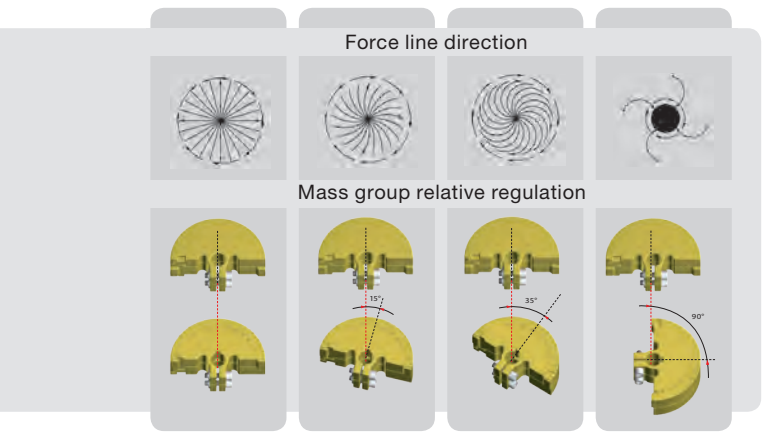


Fig. G

DIMENSIONAL SPECIFICATIONS (inches)

Type	Fig.	A	ØB	ØC	Holes ØD	Holes ØH	Holes N°	E	F	G	I	L	M	ØP	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread	Seal g
MTF 36-190	**G**	7.52	5.12	3.39	**4.29**	**0.33**	**4**	5.08	0.31	0.39	1.57	4.17	0.87	-	-	-	M20x1.5	OR 3350
MTF 36-480	**G**	8.90	8.33	3.66	**7.40**	**0.47**	**4**	5.67	0.79(50Hz) 0.63(60Hz)	0.39	2.28	4.06	0.93	-	-	-	M20x1.5	OR 4650
MTF 36-660	**G**	9.72	8.46	4.49	**7.36**	**0.47**	**4**	7.07	0.63(50Hz) 0.47(60Hz)	0.51	2.13	5.00	0.53	-	-	-	M20x1.5	OR 4625
MTF 36-1050	**G**	11.00	9.65	5.20	**8.07**	**0.47**	**6**	4.88	0.79(50Hz) 0.47(60Hz)	0.47	2.56	5.71	3.56	6.38	-	-	M25x1.5	OR 4700
MTF 36-1500	**G**	11.00	9.65	5.20	**8.07**	**0.47**	**6**	4.88	0.95(50Hz) 0.63(60Hz)	0.47	2.56	5.71	3.56	6.38	-	-	M25x1.5	OR 4700
MTF 36-1680	**G**	11.85	10.24	6.06	**9.06**	**0.59**	**6**	7.17	0.63(50Hz) 0.47(60Hz)	0.59	2.48	6.69	2.20	5.91	-	-	M25x1.5	OR 4800
MTF 36-2530	**G**	15.08	10.98	5.71	**10.00**	**0.55**	**4**	-	1.22(50Hz) 0.83(60Hz)	0.69	2.26	-	2.48	9.02	-	-	M25x1.5	-

Type	Fig.	A	ØB	ØC	Holes ØD	Holes ØH	Holes N°	E	F	G	I	L	M	ØP	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread	Seal g
MTF 36-190	**G**	7.52	5.12	3.39	**4.29**	**0.33**	**4**	5.08	0.31	0.39	1.57	4.17	0.87	-	10	28	M20x1.5	OR 3350
MTF 36-480	**G**	8.90	8.33	3.66	**7.40**	**0.47**	**4**	5.67	0.79(50Hz) 0.63(60Hz)	0.39	2.28	4.06	0.93	-	10	35	M20x1.5	OR 4650
MTF 36-660	**G**	9.72	8.46	4.49	**7.36**	**0.47**	**4**	7.07	0.63(50Hz) 0.47(60Hz)	0.51	2.13	5.00	0.53	-	16	25	M20x1.5	OR 4625
MTF 36-1050	**G**	11.00	9.65	5.20	**8.07**	**0.47**	**6**	4.88	0.79(50Hz) 0.47(60Hz)	0.47	2.56	5.71	3.56	6.38	12.5	50	M25x1.5	OR 4700
MTF 36-1500	**G**	11.00	9.65	5.20	**8.07**	**0.47**	**6**	4.88	0.95(50Hz) 0.63(60Hz)	0.47	2.56	5.71	3.56	6.38	12.5	50	M25x1.5	OR 4700
MTF 36-1680	**G**	11.85	10.24	6.06	**9.06**	**0.59**	**6**	7.17	0.63(50Hz) 0.47(60Hz)	0.59	2.48	6.69	2.20	5.91	25	90	M25x1.5	OR 4800



MTF

4 poles - 1,500/1,800 rpm

Three-phase

DESCRIPTION						MECHANICAL SPECIFICATIONS				ELECTRICAL SPECIFICATIONS					
						Centrifugal force (A/B)* lbs		Weight lbs		Power Output HP		Max. current A		Ia/In	
Code	Type	Type (EU)	SIZE	CSA	II2D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
601446	**MTF 18-170**	MTF 15/80-S02	01	-	120°C	**88/88**	**81.4/81.4**	15.0	14.3	0.05	0.06	0.21	0.20	1.78	1.95
601403	**MTF 18-480**	MTF 15/200-S02	10	•	120°C	**233/163**	**235/235**	30.8	29.0	0.13	0.13	0.41	0.40	2.34	2.75
601405	**MTF 18-920**	MTF 15/400-S02	20	•	120°C	**451/312**	**451/451**	45.3	43.6	0.29	0.37	0.60	0.60	3.33	3.50
601406	**MTF 18-1310**	MTF 15/550-S02	20	•	120°C	**607/451**	**649/649**	48.4	45.3	0.29	0.37	0.60	0.60	3.33	3.50
601407	**MTF 18-1690**	MTF 15/700-S02	30	•	120°C	**792/579**	**836/836**	57.2	53.9	0.51	0.66	0.92	0.98	3.48	3.43
601280	**MTF 18-2150**	MTF 15/1100-S90	40	•	120°C	**1109/1109**	**1080/1080**	79.2	69.1	1.0	1.2	1.45	1.50	4.10	4.20
601379	**MTF 18-2700**	MTF 15/1710-S02-VRS	50	•	150°C	**1967/708**	**1932/781**	96.8	91.3	1.1	1.2	2.00	1.90	4.29	4.89
601380	**MTF 18-3100**	MTF 15/2000-S02-VRS	50	•	170°C	**2246/785**	**2237/858**	106	100	1.3	1.5	2.50	2.30	4.30	4.90
601381	**MTF 18-5700**	MTF 15/3810-S02-VRS	70	•	135°C	**4198/1555**	**4118/1580**	220	205	2.4	2.8	3.90	3.90	7.11	6.92

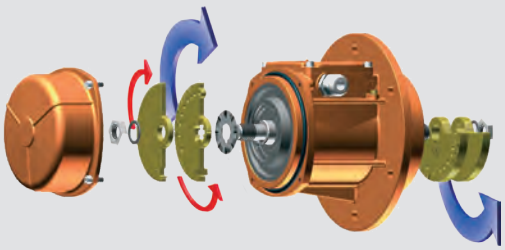
Single-phase

						Centrifugal force (A/B)* lbs		Weight lbs		Power Output HP		Max. current A		Ia/In	
Code	Type	Type (EU)	SIZE	CSA	II2D Temp. class	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	220V 50Hz	115V 60Hz	50Hz	60Hz
601446	**MTF 18-170**	MTF 15/80-S02	01	-	120°C	**88/88**	**81.4/81.4**	15.0	14.3	0.05	0.05	0.43	1.00	1.20	1.3
601403	**MTF 18-480**	MTF 15/200-S02	10	-	120°C	**233/163**	**235/235**	30.8	29.0	0.15	0.15	1.00	2.00	1.50	1.85
601405	**MTF 18-920**	MTF 15/400-S02	20	-	120°C	**451/312**	**451/451**	45.3	43.6	0.16	0.24	1.20	2.80	2.50	2.5
601406	**MTF 18-1310**	MTF 15/550-S02	20	-	120°C	**607/451**	**649/649**	48.4	45.3	0.16	0.24	1.20	2.80	2.50	2.5
601407	**MTF 18-1690**	MTF 15/700-S02	30	-	120°C	**792/579**	**836/836**	57.2	53.9	0.32	0.41	2.15	5.15	5.44	3.63

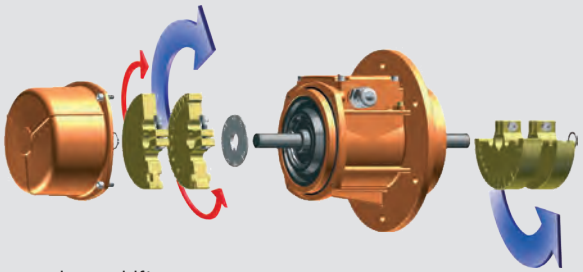
* Listed as A/B: total centrifugal force is the sum of centrifugal force of top weights (A) and centrifugal force of bottom weights (B). Ia/In = ratio between start-up current and maximum current.

Weight adjustment

Frontal fixing weights



Clamp fixing weights



Graduated disks for upper and lower weight group phase shift

Regulation between upper and lower weight groups

Single weight phase shift

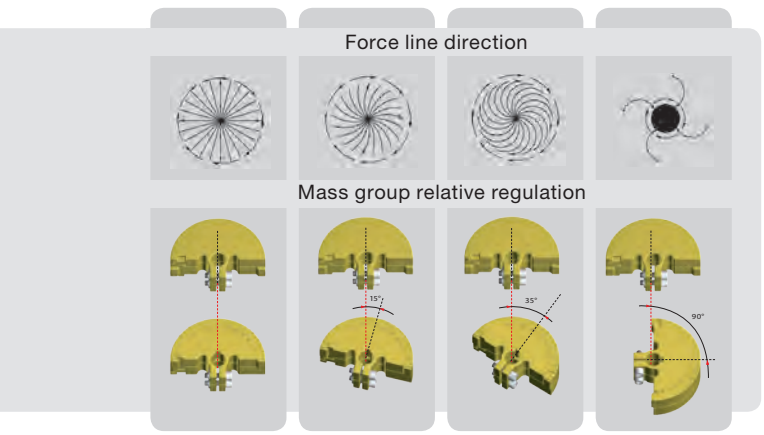
Fig. G

DIMENSIONAL SPECIFICATIONS (inches)

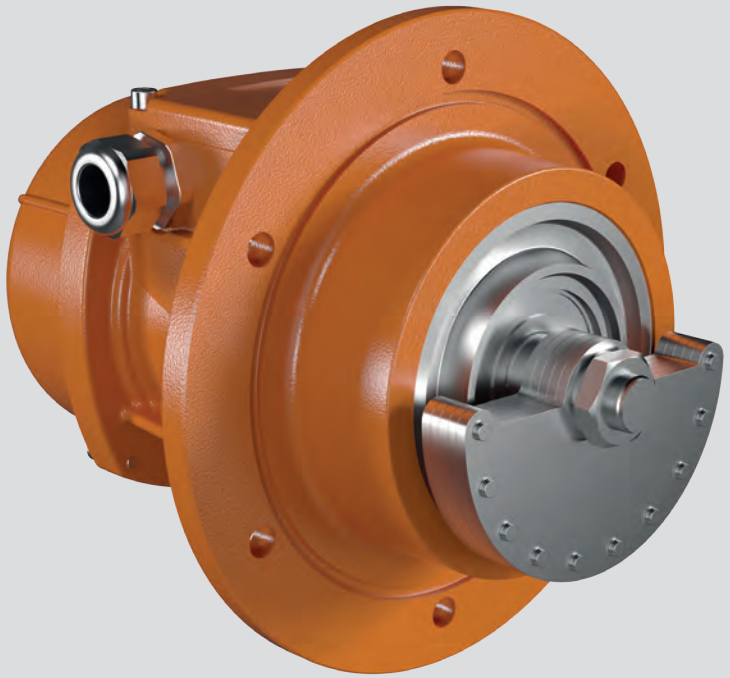
Type	Fig.	A	ØB	ØC	Holes ØD	Holes ØH	Holes N°	E	F	G	I	L	M	ØP	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread	Seal g
MTF 18-170	G	9.49	8.33	3.66	**7.40**	**0.47**	**4**	5.67	1.26(50Hz) 0.79(60Hz)	0.39	2.56	4.06	1.26	-	-	-	M20x1.5	OR 4650
MTF 18-480	G	11.52	8.46	4.49(50Hz) 4.25(60Hz)	**7.36**	**0.47**	**4**	7.07	1.89(50Hz) 1.58(60Hz)	0.51	3.03	5.00	1.42	-	-	-	M20x1.5	OR 4625
MTF 18-920	G	13.21	9.65	5.12	**8.07**	**0.47**	**6**	4.88	2.32(50Hz) 1.65(60Hz)	0.47	3.66	5.71	4.67	6.38	-	-	M25x1.5	OR 4700
MTF 18-1310	G	14.82	9.65	5.12	**8.07**	**0.47**	**6**	4.88	3.11(50Hz) 2.32(60Hz)	0.47	4.49	5.71	5.45	6.38	-	-	M25x1.5	OR 4700
MTF 18-1690	G	14.98	10.24	6.06	**9.06**	**0.59**	**6**	7.17	2.32(50Hz) 1.81(60Hz)	0.59	4.17	6.69	3.64	5.91	-	-	M25x1.5	OR 4800
MTF 18-2150	G	16.89	10.98	7.48	**10.00**	**0.55**	**4**	-	1.93	0.69	2.26	-	-	9.02	-	-	M25x1.5	-
MTF 18-2700	G	19.21	13.78	7.48	**11.42**	**0.67**	**6**	9.13	3.31(50Hz) 2.24(60Hz)	0.98	5.28	8.23	4.80	6.77	-	-	M25x1.5	-
MTF 18-3100	G	19.69(50Hz) 19.21(60Hz)	13.78	7.60	**11.42**	**0.67**	**6**	9.13	3.94(50Hz) 2.68(60Hz)	0.98	5.28	8.23	5.24(50Hz) 4.80(60Hz)	6.77	-	-	M25x1.5	-
MTF 18-5700	G	24.17	16.14	9.84(50Hz) 9.61(60Hz)	**13.78**	**0.87**	**6**	12.20	3.07(50Hz) 2.24(60Hz)	1.06	7.01	11.02	4.96	9.21	-	-	M25x1.5	-

Type	Fig.	A	ØB	ØC	Holes ØD	Holes ØH	Holes N°	E	F	G	I	L	M	ØP	Capacitor (µF) 220V 50Hz	Capacitor (µF) 115V 60Hz	Cable entry thread	Seal g
MTF 18-170	G	9.49	8.33	3.66	**7.40**	**0.47**	**4**	5.67	1.26(50Hz) 0.79(60Hz)	0.39	2.56	4.06	1.26	-	3.15	25	M20x1.5	OR 4650
MTF 18-480	G	11.52	8.46	4.49(50Hz) 4.25(60Hz)	**7.36**	**0.47**	**4**	7.07	1.89(50Hz) 1.58(60Hz)	0.51	3.03	5.00	1.42	-	5	25	M20x1.5	OR 4625
MTF 18-920	G	13.21	9.65	5.12	**8.07**	**0.47**	**6**	4.88	2.32(50Hz) 1.65(60Hz)	0.47	3.66	5.71	4.67	6.38	12○ +20●	35	M20x1.5	OR 4700
MTF 18-1310	G	14.82	9.65	5.12	**8.07**	**0.47**	**6**	4.88	3.11(50Hz) 2.32(60Hz)	0.47	4.49	5.71	5.45	6.38	12○ +20●	35○ +10●	M20x1.5	OR 4700
MTF 18-1690	G	14.98	10.24	6.06	**9.06**	**0.59**	**6**	7.17	2.32(50Hz) 1.81(60Hz)	0.59	4.17	6.69	3.64	5.91	16○ +80●	40○ +120●	M25x1.5	OR 4800

○ Running capacitor / ● Additional capacitor only for start-up.



MTF-E



Technical features

Power supply
Three-phase voltage from 120V to 690V, 50Hz or 60Hz; variable frequency (in presence of PTC thermistor) from 20Hz to the base frequency with constant torque load profile type PWM.

Polarity
2 and 4 poles.

Conformity with Standards and Regulations
ATEX Directive 2014/34/UE;
EN/IEC 60079-0, EN/IEC 60079-7,
EN/IEC 60079-31, EN/IEC 60034-1.

Quality Controls
The components that affect protection are 100% accurately controlled and recorded.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power.

Centrifugal force
Range extended up to 5750 lbs (25.7 kN), with centrifugal force adjustable fby varying weights position.

Mechanical protection
IP 66 according to IEC/EN 60529; mechanical protection is ensured in the mounting phase of the vibrator onto the vibrating machine, by introducing the special seal into the seat on the coupling flange.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Insulation class
Class F (155°C).

Tropicalization
Standard on all vibrators, with vacuum encapsulation up to size 30, with “drop by drop” trickle system for larger sizes.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C), on request it is possible to have vibrators for max. ambient temperatures of +55°C.

Vibrator thermal protection
On demand with PTC rated thermistor heat detectors 266°F (130°C). Also on request thermistors with different temperatures and anti-condensation heaters.

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Electrical connection box
The size guarantees passage of tools used for fixing the vibrator to the vibrating machine.

The electrical connection must be carried out using the relative connectors inserted inside the connection box and filling with insulating compound.

Electric motor
Three-phase asynchronous type. Designed for maximum starting torques and torque curves adapt for the specific requirements of vibrating machines. Insulated windings using vacuum encapsulating up to size 30; using the “drop by drop” trickle system with class H resin for larger sizes. The rotor is die cast aluminium.

Casing
In high-tensile aluminium alloy up to size 50, in spheroidal cast iron for size 70.

Bearing flange
In cast iron (spheroidal or grey). The geometry of the flange transmits the load to the casing uniformly.

Bearings
The lower and upper bearings have been studied to support the relative load and therefore they have a particular geometry, especially designed and made for Italvibras.

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

The MTF-E series has been designed for use in industrial processes where explosive gas and dust particles are present. In compliance with ATEX Directive (2014/34/Ue) and in compliance with IECEx Scheme.

In particular, the MTF-E series can be used in areas 1 and 2 (gas) and areas 21 and 22 (dusts) according to the layout and following features:

Category: II2D & II2G

Level of protection:
Ex tb IIIC T...°C Db

Temperature class:

see tables

EC certificate:

LCIE 05 ATEX 6163 X

Zones of use:

21, 22

Eccentric weights
Allow greater adjustment of the centrifugal force, with phase shift of the lower weight assembly with respect to the upper group. This adjustment is eased by a graduated scale, which expresses the centrifugal force as a percentage of the maximum centrifugal force.

Weight covers
In aluminium alloy.

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours.

For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

CE
Compliance with the applicable European Union directives.

II2G II2D (2014/34/UE)
Ex e IIC T3/T4 Gb
Ex tb IIIC T…°C Db
EN 60079-0
EN 60079-7
EN 60079-31

IECEx
Ex e IIC T3/T4 Gb
Ex tb IIIC T…°C Db
IEC 60079-0
IEC 60079-7
IEC 60079-31

EAC
Certification for Eurasian Customs Union
N° TC RU C-IT.ГБ08.B.02190

KOSHA Korea
Certificate n° 11-AVG BO-0346/7/8/9/50/51
Ex e IIT3/T4
Ex td A21 IP66

italvibras g.silingardi USA

MTF-E

2 poles - 3,000/3,600 rpm

Three-phase

DESCRIPTION				MECHANICAL SPECIFICATIONS				ELECTRICAL SPECIFICATIONS											
				Centrifugal force (A/B)* lbs		Weight lbs				Power Input W		Power Output HP		Max. current A		tE (s)	Ia/In
Code	Type	Type (EU)	SIZE	50Hz	60Hz	50Hz	60Hz	Temp. class (G)	Temp. class (D)	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz		
6E0369	**MTF 36-480E-S02 o**	MTF 3/200E-S02 o	01	**224/224**	**257/257**	16.5	16.1	T3	120°C	180	180	0.16	0.16	-	-	30	2.68
6E0370	**MTF 36-660E-S02**	MTF 3/300E-S02	10	**332/332**	**359/359**	24.6	24.0	T3	120°C	260	270	0.28	0.28	0.57	0.50	18	3.50
								T4		230	230	0.23	0.23	0.48	0.41	12	4.20
6E0378	**MTF 36-1050E-S02**	MTF 3/500E-S02	20	**642/642**	**554/554**	33.0	31.0	T3	120°C	500	500	0.40	0.40	0.76	6.67	12	4.20
								T4		350	360	0.28	0.28	0.57	0.50	8	5.60
6E0456	**MTF 36-1500E-S02**	MTF 3/700E-S02	20	**770/770**	**739/739**	33.4	31.5	T3	120°C	500	500	0.40	0.40	0.76	6.67	12	4.20
								T4		350	360	0.28	0.28	0.57	0.50	8	5.60
6E0380	**MTF 36-1680E-S02**	MTF 3/800E-S02	30	**825/825**	**891/891**	37.4	36.3	T3	120°C	550	570	0.54	0.54	0.95	0.83	12	4.20
								T4		390	400	0.39	0.39	0.72	0.64	8	5.52
6E0285	**MTF 36-2530E-S90**	MTF 3/1100E-S90	40	**1217/1217**	**1166/1166**	57.2	55.0	T4	120°C	830	910	0.88	0.88	1.43	1.25	6	7.30

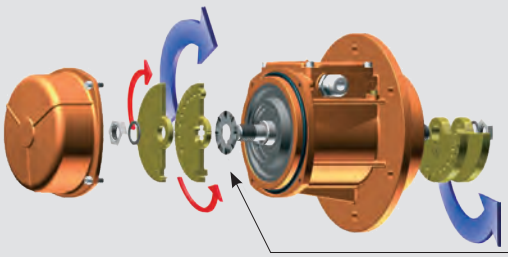
4 poles - 1,500/1,800 rpm

				Centrifugal force (A/B)* lbs		Weight lbs				Power Input W		Power Output HP		Max. current A		tE (s)	Ia/In
Code	Type	Type (EU)	SIZE	50Hz	60Hz	50Hz	60Hz	Temp. class (G)	Temp. class (D)	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz		
6E1403	**MTF 18-480E-S02**	MTF 15/200E-S02	10	**233/163**	**235/235**	30.8	29.0	T3	120°C	203	-	0.12	-	0.45	-	35	2.04
								T4		170	175	0.13	0.13	0.39	0.40	28	2.34
6E1405	**MTF 18-920E-S02**	MTF 15/400E-S02	20	**451/312**	**451/451**	45.3	43.6	T3	120°C	300	320	0.27	0.31	0.57	0.52	18	3.33
								T4		285	270	0.24	0.27	0.52	0.46	16	3.63
6E1406	**MTF 18-1310E-S02**	MTF 15/550E-S02	20	**607/451**	**649/649**	48.4	45.3	T3	120°C	300	320	0.27	0.31	0.57	0.52	18	3.33
								T4		285	270	0.24	0.27	0.52	0.46	16	3.63
6E1407	**MTF 18-1690E-S02**	MTF 15/700E-S02	30	**792/579**	**836/836**	57.2	53.9	T3	120°C	460	500	0.42	0.51	0.86	0.85	17	3.50
								T4		360	420	0.32	0.28	0.72	0.70	12	4.20
6E1280	**MTF 18-2150E-S90**	MTF 15/1100E-S90	40	**1109/1109**	**1080/1080**	79.2	69.1	T3	120°C	900	950	0.88	0.98	1.38	1.32	13	4.00
								T4		630	700	0.62	0.68	1.05	1.00	8	5.36
6E1379	**MTF 18-2700E-S02**	MTF 15/1710E-S02-VRS	50	**1967/708**	**1932/781**	96.8	91.3	T3	150°C	1100	1150	0.98	1.07	1.90	1.82	9	4.95
								T4		630	700	0.64	0.71	1.33	1.27	6	7.00
6E1380	**MTF 18-3100E-S02**	MTF 15/2000E-S02-VRS	50	**2246/785**	**2237/858**	106	100	T3	150°C	1100	1150	0.98	1.07	1.90	1.82	9	4.95
								T4		630	700	0.64	0.71	1.33	1.27	6	7.00
6E1381	**MTF 18-8700E-S02**	MTF 15/3810E-S02-VRS	70	**4198/1555**	**4118/1580**	220	205	T3	135°C	2200	2400	2.39	2.63	3.71	3.50	6	7.17
								T4		1850	1950	2.01	2.21	3.14	3.00	6	8.42

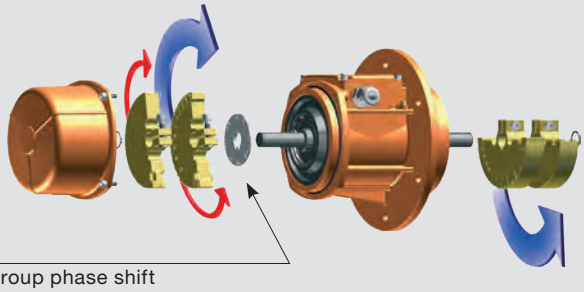
* Listed as A/B: total centrifugal force is the sum of centrifugal force of top weights (A) and centrifugal force of bottom weights (B).
O Available only in versions 127/220V 50Hz three-phase, 200/346V 50Hz three-phase and 210/363V 60Hz three-phase.

Weight adjustment

Frontal fixing weights



Clamp fixing weights



Graduated disks for upper and lower weight group phase shift

Regulation between upper and lower weight groups

Single weight phase shift

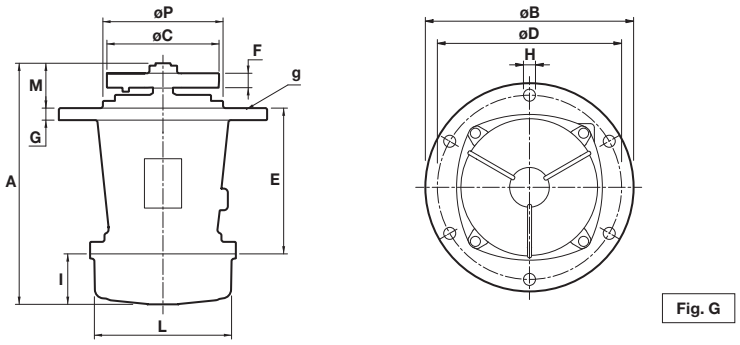


Fig. G

DIMENSIONAL SPECIFICATIONS (inches)

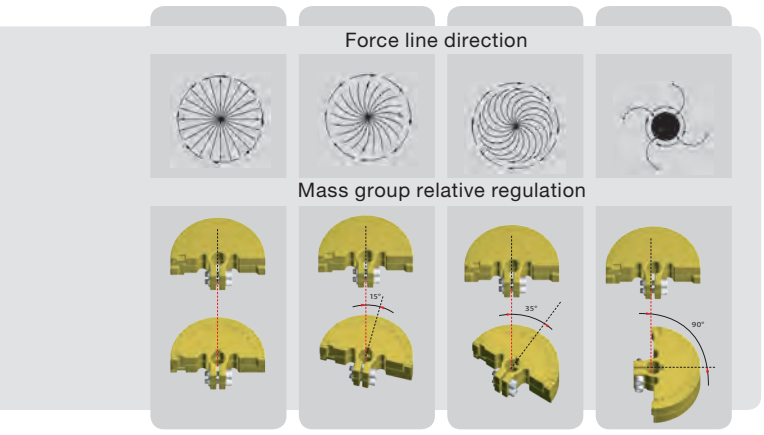
Holes

Type	Fig.	A	ØB	ØC	ØD	ØH	N°	E	F	G	I	L	M	ØP	Cable entry thread	Seal g
MTF 36-480E-S02 o	**G**	8.90	8.33	3.66	**7.40**	**0.47**	**4**	5.67	0.79(50Hz) 0.63(60Hz)	0.39	2.28	4.06	0.93	-	M20x1.5	OR 4650
MTF 36-660E-S02	**G**	9.72	8.46	4.49	**7.36**	**0.47**	**4**	7.07	0.63(50Hz) 0.47(60Hz)	0.51	2.13	5.00	0.53	-	M20x1.5	OR 4625
MTF 36-1050E-S02	**G**	11.00	9.65	5.20	**8.07**	**0.47**	**6**	4.88	0.79(50Hz) 0.47(60Hz)	0.47	2.56	5.71	3.56	6.38	M25x1.5	OR 4700
MTF 36-1500E-S02	**G**	11.00	9.65	5.20	**8.07**	**0.47**	**6**	4.88	0.95(50Hz) 0.63(60Hz)	0.47	2.56	5.71	3.56	6.38	M25x1.5	OR 4700
MTF 36-1680E-S02	**G**	11.85	10.24	6.06	**9.06**	**0.59**	**6**	7.17	0.63(50Hz) 0.47(60Hz)	0.59	2.48	6.69	2.20	5.91	M25x1.5	OR 4800
MTF 36-2530E-S90	**G**	15.08	10.98	5.71	**10.00**	**0.55**	**4**	-	1.22(50Hz) 0.83(60Hz)	0.69	2.26	-	2.48	9.02	M25x1.5	-

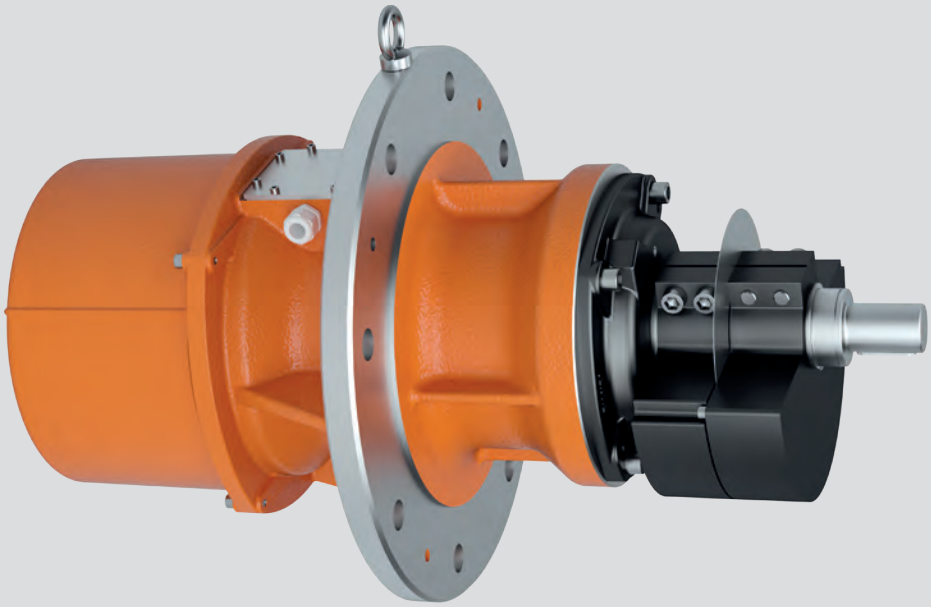
Holes

Type	Fig.	A	ØB	ØC	ØD	ØH	N°	E	F	G	I	L	M	ØP	Cable entry thread	Seal g
MTF 18-480E-S02	**G**	11.52	8.46	4.49(50Hz) 4.25(60Hz)	**7.36**	**0.47**	**4**	7.07	1.89(50Hz) 1.58(60Hz)	0.51	3.03	5.00	1.42	-	M20x1.5	OR 4625
MTF 18-920E-S02	**G**	13.21	9.65	5.12	**8.07**	**0.47**	**6**	4.88	2.32(50Hz) 1.65(60Hz)	0.47	3.66	5.71	4.67	6.38	M25x1.5	OR 4700
MTF 18-1310E-S02	**G**	14.82	9.65	5.12	**8.07**	**0.47**	**6**	4.88	3.11(50Hz) 2.32(60Hz)	0.47	4.49	5.71	5.45	6.38	M25x1.5	OR 4700
MTF 18-1690E-S02	**G**	14.98	10.24	6.06	**9.06**	**0.59**	**6**	7.17	2.32(50Hz) 1.81(60Hz)	0.59	4.17	6.69	3.64	5.91	M25x1.5	OR 4800
MTF 18-2150E-S90	**G**	16.89	10.98	7.48	**10.00**	**0.55**	**4**	-	1.93	0.69	2.26	-	-	9.02	M25x1.5	-
MTF 18-2700E-S02	**G**	19.21	13.78	7.48	**11.42**	**0.67**	**6**	9.13	3.31(50Hz) 2.24(60Hz)	0.98	5.28	8.23	4.80	6.77	M25x1.5	-
MTF 18-3100E-S02	**G**	19.69(50Hz) 19.21(60Hz)	13.78	7.60	**11.42**	**0.67**	**6**	9.13	3.94(50Hz) 2.68(60Hz)	0.98	5.28	8.23	5.24(50Hz) 4.80(60Hz)	6.77	M25x1.5	-
MTF 18-8700E-S02	**G**	614	16.14	9.84(50Hz) 9.61(60Hz)	**13.78**	**0.87**	**6**	12.20	3.07(50Hz) 2.24(60Hz)	1.06	7.01	11.02	4.96	9.21	M25x1.5	-

tE (s) = set time tE from IEC/EN 60079-7. Ia/In = ratio between start-up current and maximum current.



MTF - ACC



Technical features

Power supply
Three phase tension from 220V to 690V at 50Hz or 60Hz; variable frequency from 20Hz to the nameplate frequency, at constant torque, with frequency inverter.

Polarities
6 pole standard, 4 & 8 pole on request, depending on frame size.

Reference Regulations and Directives
Low Voltage Directive 2006/95/CE; EN/IEC 60034-1.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and on the operating conditions. For detailed information, contact our technical assistance office.

Centrifugal force
Range extended to 44000 lbs (197 kN), adjustable varying the position of eccentric weights.

Mechanical protection
IP66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Insulation class
Class F (155°C).

Tropicalisation
Standard on all vibrators, with “drop by drop” trickle system.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C); higher or lower temperatures are possible on request.

Vibrator thermal protection
With thermal detectors with thermistors PTC 266°F (130°C). Upon request different temperatures thermistors are available and anti-condensation heaters.

Fixing of the vibrator
Typical fixing of these vibrators on inclined screens is horizontal, with connecting shaft and joints between the two motor-vibrators in order to keep the weights synchronized. The joints and the connecting shaft are not part of the standard supply but on demand only.

Lubrication
All vibrators are correctly lubricated at the factory and do not require further lubrication at their start-up in normal operating conditions.

Terminal box
Large terminal box to facilitate electrical connection.
Special shaped terminals allow for the power supply cable to be secured, whilst protecting it from loosening.

Electric motor
Three-phase asynchronous type. Designed for obtaining maximum torque values both at starting to respond to the requirements of vibrating machines. Insulated windings by means of the “drop by drop” trickle system with class H resin. The rotor is die cast aluminum (squirrel cage).

Casing
In spheroidal cast iron, with connecting flange for a solid connection to the vibrating machine.

Bearing flange
Carried out in spheroidal graphite cast iron. Relevant design was studied to convey the load to the casing in a uniform way

Bearings
Custom made with special profile especially designed for Italvibras, suitable to withstand both high radial and axial loads

Motor shaft
In treated steel alloy (isothermal hardening) resistant to high stresses. One side extension to allow linear coupling through joint.

The new MTF-ACC Series consists of flange mounted electric vibrators with shaft extension on one side and weight protection cover on the opposite side. This vibrator is designed for use on horizontal or inclined screens of medium and large dimensions.

The MTF-ACC vibrators are easy to install, they are normally fixed to the sides of the screen by means of a side flange and the two shafts are mechanically connected in-line through a shaft and dynamic elastic joints.

With two MTF-ACC motor-vibrators coupled in-line up to 88000 lbs (394kN) of centrifugal force can be reached.

The Italvibras technical staff is able to assist with the selection of the connecting shaft as well of the dynamic joints coupling and of course with the application of the motor-vibrators.

Eccentric weights
Allow adjustment of the centrifugal force. It is achieved by means of a graduated scale expressing it as a percentage of the maximum centrifugal force.

Weight covers
In aluminum alloy. On several sizes split covers are also available to enable opening in radial direction.

Painting
Electrostatic surface treatment based on polymerized epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours

For further details please contact Italvibras Technical Assistance.
Technical features and models mentioned in this catalogue are indicative and not binding. Italvibras reserves the right to modify them without any obligation.

Certifications

CE
In conformity with the applicable Communitarian Directives.

MTF - ACC

6 poles - 1,000/1,200 rpm

Three-phase

DESCRIPTION				MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS					
				Static moment in-lbs		Centrifugal force lbs		Weight lbs		Power Output HP		Max current A		Ia/In	
Code	Type	Type (UE)	SIZE	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
602013	**MTF 12-11400-ACC**	MTF 10/5150-S02-ACC	80	407	281	**11506**	**11440**	506	451	3.50	3.90	6.50	6.00	5.24	5.50
602001	**MTF 12-14500-ACC**	MTF 10/6600-S02-ACC	97	529	346	**14960**	**14091**	695	634	5.60	6.70	10.0	9.80	5.61	5.82
602498	**MTF 12-20100-ACC**	MTF 10/10000-S02-ACC	97	754	492	**21331**	**20057**	924	838	8.40	9.00	13.5	12.4	4.72	4.92
602305	**MTF 12-24400-ACC**	MTF 10/11200-S02-ACC	97	868	600	**24552**	**24420**	961	884	8.40	9.00	13.5	12.4	4.72	4.92
602217	**MTF 12-26500-ACC**	MTF 10/12000-S09-RF-ACC	105	930	652	**26319**	**26558**	1463	1342	10.1	11.0	16.3	15.0	5.21	5.73
602101	**MTF 12-29000-ACC**	MTF 10/13000-S02-ACC	97	1001	709	**28307**	**28886**	1067	902	10.6	11.4	17.0	16.0	4.98	5.00
602002	**MTF 12-31000-ACC**	MTF 10/15000-S09-RF-ACC	105	1101	756	**31141**	**30809**	1518	1430	12.1	13.4	19.0	18.0	5.88	5.78
602218	**MTF 12-37000-ACC**	MTF 10/17500-S09-RF-ACC	105	1348	908	**38119**	**36969**	1650	1540	14.7	15.4	24.5	23.0	5.71	5.96
602009	**MTF 12-40000-ACC**	MTF 10/19500-S09-RF-ACC	105	1560	994	**44136**	**40480**	1672	1562	14.7	15.4	24.5	23.0	5.71	5.96

* Working moment = 2 x static moment RF = Water circulation cooling possibility in high temperature environments.

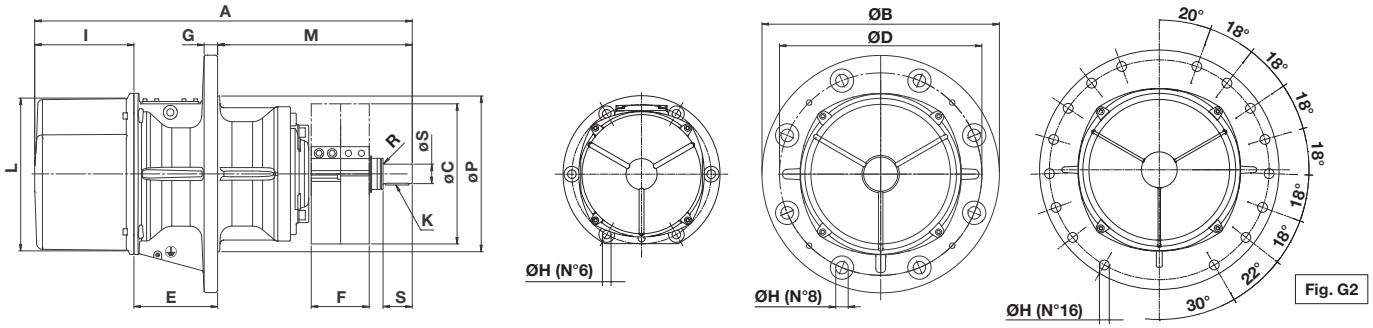


Fig. G2

DIMENSIONAL FEATURES (inches)

					Holes													
Type	**Fig.**	**A**	**ØB**	**ØC**	**ØD**	**ØH**	**N°**	**E**	**F**	**G**	**I**	**L**	**M**	**ØP**	**ØS**	**S**	**R**	**K key**
MTF 12-11400-ACC	**G2**	34.06	15.75	11.02	**13.98**	**0.87**	**6**	8.46	6.77 (50Hz) 4.72 (60Hz)	0.91	9.76	11.97	15.83	11.89	1.57	2.13	-	0.47x0.31x0.79
MTF 12-14500-ACC	**G2**	32.09	24.02	14.17	**20.47**	**1.26**	**8**	8.46	4.09 (50Hz) 2.87 (60Hz)	1.34	6.85	15.24	16.77	15.75	1.97	3.15	-	0.55x0.35x2.36
MTF 12-20100-ACC	**G2**	38.19	24.02	14.17	**20.47**	**1.26**	**8**	8.46	5.79 (50Hz) 3.78 (60Hz)	1.34	10.04	15.24	19.69	15.75	1.97	2.95	-	0.55x0.35x2.36
MTF 12-24400-ACC	**G2**	38.19	24.02	14.17	**20.47**	**1.26**	**8**	8.46	6.77 (50Hz) 4.80 (60Hz)	1.34	10.04	15.24	19.69	15.75	1.97	2.95	-	0.55x0.35x2.36
MTF 12-26500-ACC	**G2**	43.11	24.02	17.48	**22.05**	**0.98**	**16**	11.02	4.21 (50Hz) 3.74 (60Hz)	1.57	7.87	19.13	24.21	17.52	2.56	5.51	-	0.79x0.47x3.54
MTF 12-29000-ACC	**G2**	41.73	24.02	13.98	**20.47**	**1.26**	**8**	8.46	8.27 (50Hz) 6.38 (60Hz)	1.34	11.81	15.24	21.46	15.75	1.97	2.95	-	0.55x0.35x2.36
MTF 12-31000-ACC	**G2**	44.61	24.02	17.48 (50Hz) 16.54 (60Hz)	**22.05**	**0.98**	**16**	11.02	4.57 (50Hz) 3.74 (60Hz)	1.57	7.87	19.13	25.71	17.52	3.15	7.60	0.43	0.87x0.55x2.76
MTF 12-37000-ACC	**G2**	46.42	24.02	17.48 (50Hz) 16.54 (60Hz)	**22.05**	**0.98**	**16**	11.02	5.59 (50Hz) 4.49 (60Hz)	1.57	9.45	19.13	25.94	17.52	3.15	6.65	0.43	0.87x0.55x2.76
MTF 12-40000-ACC	**G2**	47.99	24.02	17.48	**22.05**	**0.98**	**16**	11.02	6.61 (50Hz) 4.17 (60Hz)	1.57	11.02	19.13	25.94	17.52	3.15	6.65	0.43	0.87x0.55x2.76

Ia/In = ratio between start-up current and max current.

MVB / MVB-FLC

Technical features

Power supply
Three-phase voltage from 220V to 690V, 50Hz or 60Hz; suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile.

Polarity
4 poles.

Conformity with Standards and Regulations
Low Voltage Directive 2006/95/EC;
ATEX Directive 2014/34/UE; EN/IEC 60034-1, EN/IEC 60079-0, EN/IEC 60079-31,
UL 1004-1, CSA C22.2 No.100, NEMA MG-1.

Functioning
Continuousl service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information, contact our technical assistance office.

Centrifugal force
Range extended up to 15400 lbs (68.7 kN), with centrifugal force adjustable from by varying weights position.

Mechanical protection
IP 66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

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

Tropicalization
Standard on all vibrators with “drop by drop” trickle system.

Ambient temperature
From -4°F to +104°F (-20°C a +40°C). Versions for higher or lower temperatures are available on request.

Vibrator thermal protection
Standard PTC rated thermistor heat detectors 266°F (130°C) from size 80, on request for smaller sizes. Also on request thermistors with different temperatures and anti-condensation heaters.

Fixing of the vibrator
Typically for vertical mounting, anyway possible to install in all positions and therefore without restriction.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Terminal box
Large terminal box to facilitate electrical connection.
Special shaped terminals allow for the power supply cable to be secured, whilst protecting it from loosening.

Electric motor
Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to requirements of vibrating machines. Insulated windings using “drop by drop” trickle system with class H resin. The rotor is die cast aluminium.

Casing
In spheroidal cast iron to have high strength and optimal elasticity.

Bearing flange
In spheroidal or grey cast iron. The geometry of the flange transmits the load to the casing uniformly.

Bearings
Custom made with particular geometry, especially designed for Italvibras, suitable to support both high radial and axial loads.

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

Eccentric weights
The weights are not provided in the delivery and must be ordered separately (ask Italvibras sales office). Lamellar for clamped eccentric weight have an ample possibility of

The MVB series is made up of vertical vibrators, featuring a lateral flange and the shaft projecting from both sides.

The MVB-FLC series is made up of vertical vibrators, featuring a central flange and the shaft projecting from both sides.

These vibrators are typically used in circular screens and medium-size and large sieves, and can be supplied in 4 different versions: A, B, C, D according to the type of eccentric weights supplied with the vibrator and which must be mounted by the user.

The size 50 complies with the most recent IEC and EN international standards for use in atmospheres with potentially explosive dust particles. In particular, the size 50 series can be used in areas 21 and 22.

Type: MVB gr. 50, MVB-FLC gr. 50

Category: II 2 D

Level of protection:

Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)

Temperature class:

T150°C

Zones of use:

21, 22

adjustment: the particular adjustment system adopted allows to obtain phase shift from 0 to 180° of the group of upper weights with respect to the group of lower weights and to have ample adjustment of the centrifugal force within the same group of weights.

Weight covers
Not provided in the MVB and MVB-FLC series.

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours.

For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

Compliance with the applicable European Union directives.

Standard CAN/CSA – C22.2, N°.100-95,
Certificate n° LR 100948
Class 4211 01 - Motors and generators
UL 1004-1 – Rotating Electrical Machines – General Requirements

II2D (2014/34/UE)
Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
EN 60079-0
EN 60079-31

Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
IEC 60079-0
IEC 60079-31

Version MVB-C and MVB-C-FLC available on request
Class I Div.2, Groups ABCD
Standard CAN/CSA – C22.2

Certification for Eurasian Customs Union
N° TC N RU Д-IT.АЛ33.B.02527
N° TC RU C-IT.ГБ08.B.02190

KOSHA Korea
Certificate n° 11-AVG BO-0359
Ex td A21 IP66

MVB / MVB-FLC

MVB 4 poles - 1,500/1,800 rpm

Three-phase

DESCRIPTION							MECHANICAL SPECIFICATIONS			ELECTRICAL SPECIFICATIONS					
					II2D		Centrifugal force lbs		Weight lbs	Power Output HP		Max current A		Ia/In	
Code	Type	Type (UE)	SIZE		Classe temp.	Available versions	50Hz	60Hz		50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
601226	**MVB 18-1510***	MVB 1510/15*	50	•	150°C	B, C, D	**3300**	**3300**	91,3	1.1	1.2	2.10	2.00	3.76	4.50
601628	**MVB 18-2510***	MVB 2510/15*	60	•	/	B, C, D	**5940**	**5940**	139	2.3	2.9	3.90	4.10	5.60	5.81
601130	**MVB 18-4500**	MVB 4500/15	80	•	/	A, B, C, D	**9900**	**9900**	233	4.4	4.6	6.70	5.80	4.48	4.18
601131	**MVB 18-7000**	MVB 7000/15	90	•	/	A, B, C, D	**15400**	**15400**	352	7.4	7.5	11.8	10.2	6.19	6.73

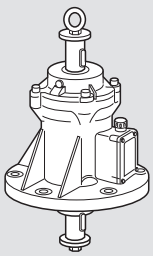
MVB-FLC 4 poles - 1,500/1,800 rpm

							Centrifugal force lbs		Weight lbs	Power Output HP		Max current A		Ia/In	
					II2D										
Code	Type	Type (UE)	SIZE		Classe temp.	Available versions	50Hz	60Hz		50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
601225	**MVB 18-1510*-FLC**	MVB 1510/15-FLC*	50	•	150°C	B, C, D	**3300**	**3300**	120	1.1	1.2	2.10	2.00	3.76	4.50
601629	**MVB 18-2510*-FLC**	MVB 2510/15-FLC*	60	•	/	B, C, D	**5940**	**5940**	139	2.3	2.9	3.90	4.10	5.60	5.81
601135	**MVB 18-4500-FLC**	MVB 4500/15-FLC	80	•	/	A, B, C, D	**9900**	**9900**	233	4.4	4.6	6.70	5.80	4.48	4.18
601136	**MVB 18-7000-FLC**	MVB 7000/15-FLC	90	•	/	A, B, C, D	**15400**	**15400**	352	7.4	7.5	11.8	10.2	6.19	6.73

* The lifting rings are obtained in the casing, there are no eyebolts on the shaft.

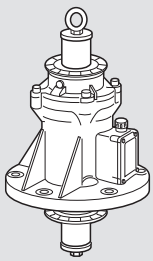
Versions

Version A



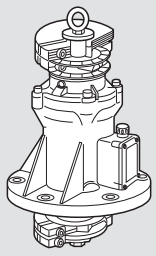
Basic model.

Version B



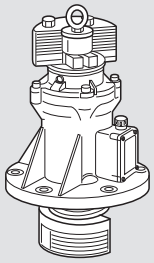
Basic model with angle disc.

Version C

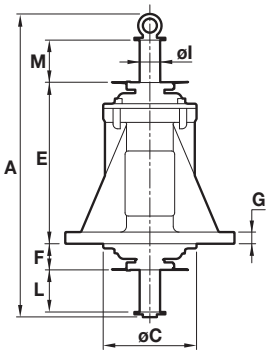


Basic model with angle disc and weights type C (clamped).

Version D



Basic model with angle disc and weights type D (lamellar).



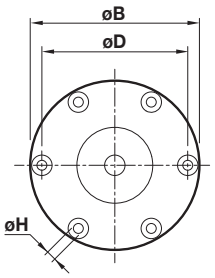
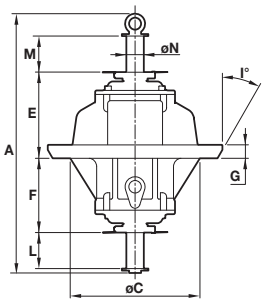


Fig. I



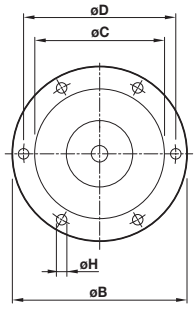


Fig. L

DIMENSIONAL FEATURES (inches)

Holes

Type	Fig.	A	ØB	ØC	ØD	ØH	N°	E	F	G	ØI	L	M	Cable entry
MVB 18-1510*	**I**	18.74	11.42	6.73	**9.84**	**0.67**	**6**	10.94	1.81	0.79	1.38	2.80	2.80	M25x1.5
MVB 18-2510*	**I**	23.11	13.78	7.80	**12.01**	**0.83**	**6**	12.36	2.01	0.98	1.57	4.17	4.17	M25x1.5
MVB 18-4500	**I**	26.14	15.75	9.45	**13.98**	**0.93**	**6**	13.39	2.76	1.18	2.05	2.95	2.95	M25x1.5
MVB 18-7000	**I**	29.02	20.00	12.36	**17.24**	**0.98**	**8**	15.24	3.43	1.34	2.05	3.11	3.11	M25x1.5

Holes

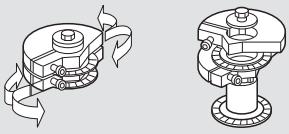
Type	Fig.	A	ØB	ØC	ØD	ØH	N°	E	F	G	ØI	L	M	ØN	Cable entry
MVB 18-1510*-FLC	**L**	18.74	13.78	10.24	**12.01**	**0.83**	**6**	6.85	5.91	1.06	1.18	2.80	2.80	1.38	M25x1.5
MVB 18-2510*-FLC	**L**	23.11	13.78	10.24	**12.01**	**0.83**	**6**	7.80	6.61	0.87	1.18	4.17	4.17	1.57	M25x1.5
MVB 18-4500-FLC	**L**	26.14	15.75	12.20	**13.98**	**0.93**	**6**	8.66	7.48	1.18	0.59	2.95	2.95	2.05	M25x1.5
MVB 18-7000-FLC	**L**	29.02	20.00	13.70	**17.24**	**0.98**	**8**	9.96	8.74	1.28	1.18	3.11	3.11	2.05	M25x1.5

Ia/In = ratio between start-up current and maximum current.

Each C type weight group (in twos) is adjustable by phase shifting one in respect to the other. Each D type weight group (lamellars) is adjustable by removing one or more lamellar elements.

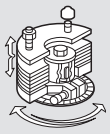
Weight adjustment: the weights at the two ends of the shaft can be staggered as required, with reference to the graduated discs on the shaft itself.

Type "C"



Infinitely adjustable centrifugal force

Type "D"



Centrifugal force adjustable from max. to min. by removing the lamellar weights.

MVB-E/MVB-E-FLC

Technical features

Power supply
Three-phase voltage from 220V to 690V, 50Hz or 60Hz; variable frequency (in presence of PTC thermistor) from 20Hz to the base frequency with constant torque load profile type PWM.

Polarity
4 poles.

Conformity with Standards and Regulations
ATEX Directive 2014/34/UE;
EN/IEC 60079-0, EN/IEC 60079-7, EN/IEC 60079-31, EN/IEC 60034-1.

Quality Controls
The components that affect protection are 100% accurately controlled and recorded.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power.

Centrifugal force
3300 lbs (14.7 kN), adjustable with variation of the eccentric weights.

Mechanical protection
IP 66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Insulation class
Class F (155°C).

Tropicalization
Standard with “drop by drop” trickle system.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C), on request it is possible to have vibrators for max. ambient temperature of 131°F (+55°C).

Vibrator thermal protection
On demand with PTC rated thermistor heat detectors 266°F (130°C). Also on request thermistors with different temperatures and anti-condensation heaters.

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Terminal box
Large terminal box to facilitate electrical connection.
Special shaped terminals allow for the power supply cable to be secured, whilst protecting it from loosening.

Electric motor
Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to requirements of vibrating machines. Insulated windings using “drop by drop” trickle system with class H resin. The rotor is die cast aluminium.

Casing
In spheroidal cast iron to have high strength and optimal elasticity.

Bearing flange
In spheroidal or grey cast iron.
The geometry of the flange transmits the load to the casing uniformly.

Bearings
Custom made with particular geometry, especially designed for Italvibras, suitable to support both high radial and axial loads.

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

Eccentric weights
The weights are not provided in the delivery and must be ordered separately (ask Italvibras sales office). Lamellar for clamped eccentric weight have an ample possibility of adjustment: the particular adjustment system adopted allows to obtain phase shift from 0 to 180° of the group of upper weights with respect to the group of lower weights and to have ample adjustment of the centrifugal force within the same group of weights.

The MVB-E and MVB-E-FLC flanged vibrator series have been designed for use in industrial processes where explosive gas and dust particles are present, in compliance with ATEX Directive (2014/34/UE) and with IECEx Scheme.

These vibrators can be supplied in B, C, D versions (see page 70) according to the eccentric weights supplied with the vibrator and to be mounted by the user.

In particular, these vibrators can be used in areas 1 and 2 (gas) and in areas 21 and 22 (dusts) according to the layout and the following features:

Tipo: MVB-E gr.50, MVB-E-FLC gr.50

Category: II 2D & II 2G

Level of protection:

Ex tb IIIC T150°C Db

Ex e IIC T3/T4 Gb

Temperature class:

Gas: T3 (200°C or T4 (135°C)

Dust: 150°C

Zones of use:

1, 2, 21, 22

Weight covers
Not provided in the MVB-E and MVB-E-FLC series.

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours.

For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

Certifications

CE
Compliance with the applicable European Union directives.

II2G II2D (2014/34/UE)
Ex e IIC T3/T4 Gb
Ex tb IIIC T150°C Db
EN 60079-0
EN 60079-7
EN 60079-31

IECEx
Ex e IIC T3/T4 Gb
Ex tb IIIC T150°C Db
EN 60079-0
EN 60079-7
EN 60079-31

EAC
Certification for Eurasian Customs Union
N° TC RU C-IT.ГБ08.B.02190

KOSHA Korea
Certificate n° 11-AVG BO-0346/7/8/9/50/51
Ex e IIT3/T4
Ex td A21 IP66

italvibras g.silingardi USA

MVB-E/MVB-E-FLC

MVB-E 4 poles - 1,500/1,800 rpm

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS			ELECTRICAL SPECIFICATIONS									
					Centrifugal force lbs		Weight lbs			Power Input W		Power Output HP		Max current A		tE (s)	Ia/In
Code	Type	Type (UE)	SIZE	Available versions	50Hz	60Hz		Temp. class (G)	Temp. class (D)	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz		
6E1226	**MVB 18-1510E***	MVB 1510/15-E*	50	B, C, D	**3300**	**3300**	91.3	T3	150°C	1100	1150	0.98	1.07	1.90	1.82	9	4.95
								T4		630	700	0.64	0.71	1.33	1.27	5.5	7.00

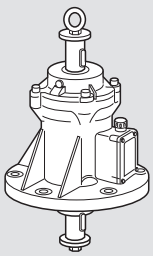
MVB-E-FLC 4 poles - 1,500/1,800 rpm

					Centrifugal force lbs		Weight lbs			Power Input W		Power Output HP		Max current A		tE (s)	Ia/In
Code	Type	Type (EU)	SIZE	Available versions	50Hz	60Hz		Classe temp. (G)	Classe temp. (D)	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz		
6E1225	**MVB 18-1510E-FLC***	MVB 1510/15-E-FLC*	50	B, C, D	**3300**	**3300**	91.3	T3	150°C	1100	1150	0.98	1.07	1.90	1.82	9	4.95
								T4		630	700	0.64	0.71	1.33	1.27	5.5	7.00

* The lifting rings are obtained in the casing, there are no eyebolts on the shaft.

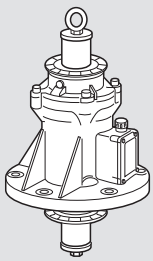
Versions

Version A



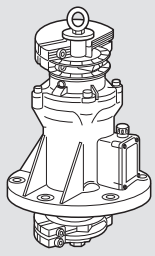
Basic model.

Version B



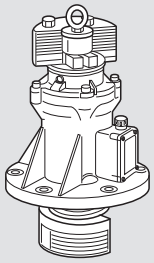
Basic model with angle disc.

Version C

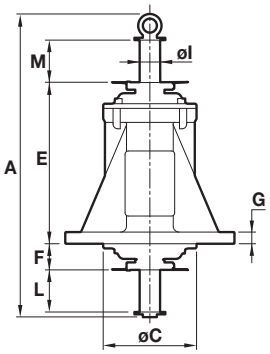


Basic model with angle disc and weights type C (clamped).

Version D



Basic model with angle disc and weights type D (lamellar).



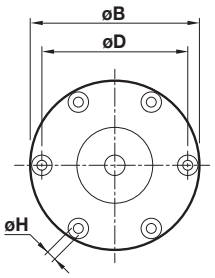
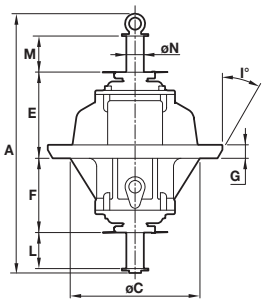


Fig. I



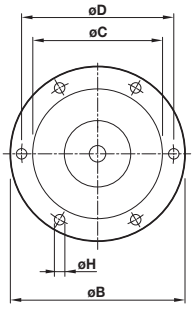


Fig. L

DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	Fig.	A	ØB	ØC	ØD	ØH	N°	E	F	G	ØI	L	M	Cable entry
MVB 18-1510E*	**I**	18.74	11.42	6.73	**9.84**	**0.67**	**6**	10.94	1.81	0.79	1.38	2.80	2.80	M25x1.5

Holes

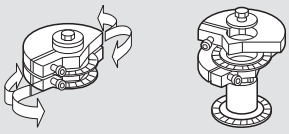
Type	Fig.	A	ØB	ØC	ØD	ØH	N°	E	F	G	ØI	L	M	ØN	Cable entry
MVB 18-1510E-FLC*	**L**	18.74	13.78	10.24	**12.01**	**0.83**	**6**	6.85	5.91	1.06	1.18	2.80	2.80	1.38	M25x1.5

tE (s) = set time tE from IEC/EN 60079-7. Ia/In = ratio between start-up current and maximum current.

Each C type weight group (in twos) is adjustable by phase shifting one in respect to the other. Each D type weight group (lamellars) is adjustable by removing one or more lamellar elements.

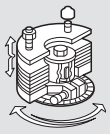
Weight adjustment: the weights at the two ends of the shaft can be staggered as required, with reference to the graduated discs on the shaft itself.

Type “C”



Infinitely adjustable centrifugal force

Type “D”



Centrifugal force adjustable from max. to min. by removing the lamellar weights.

VB

The VB series is made up of vertical vibrators which feature a double conical flange. These vibrators are typically used in circular screens and in medium-size and large sieves.

They are supplied without eccentric weights, which must be realised and mounted by the manufacturer of the vibrating machine.

The VB series complies with the most recent IEC and EN international standards for use in atmospheres with potentially explosive dust particles. In particular, the VB series can be used in areas 21 and 22.

Technical features

Power supply
Three-phase voltage from 220V to 690V, 50Hz or 60Hz; suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile

Polarity
4 and 6 poles.

Conformity with Standards and Regulations
Low Voltage Directive 2006/95/EC; ATEX Directive 2014/34/UE; EN/IEC 60034-1, EN/IEC 60079-0, EN/IEC 60079-31, UL 1004-1, CSA C22.2 No.100, NEMA MG-1.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information, contact our technical assistance office.

Centrifugal force
Proportioned for a centrifugal force equal to 11000 lbs (49 kN), with eccentric weights not included, to be made by the user.

Mechanical protection
IP 66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

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

Tropicalization
Standard on all vibrators with “drop by drop” trickle system.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C). Versions for higher or lower temperatures are available on request.

Vibrator thermal protection
Standard PTC rated thermistor heat detectors 266°F (130°C) for VB 18/5000-LM, on request for smaller sizes. Also on request thermistors with different temperatures, bimetallic thermal protections and anti-condensation heaters.

Fixing of the vibrator
Typical vertical assembly with double tapered flange.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Terminal box
The size guarantees passage of tools used for fixing the vibrator to the vibrating machine. The electrical connection must be carried out using the relative connectors inserted inside the connection box. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

4 poles - 1,500/1,800 rpm

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS					ELECTRICAL SPECIFICATIONS					
				II2D	rpm		Centrifugal force lbs		Weight lbs	Power Output HP		Max current A		Ia/In	
Code	Type	Type (EU)	CSA	Temp. class	50Hz	60Hz	50Hz	60Hz		50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz
601650	**VB 18-2200**	VB 15/2200-D	-	-	1500	1800	**4850**	**4850**	146	1.5	1.8	2.60	3.00	3.84	4.00
601223	**VB 18-2510**	VB 15/2510-D	•	150°C	1500	1800	**5512**	**5512**	150	2.0	2.5	3.60	4.10	3.50	3.58
601651	**VB 18-3000**	VB 15/3000-D	-	-	1500	1800	**6614**	**6614**	172	3.0	3.2	5.90	6.00	6.78	7.00
601378	**VB 18-5000-LM**	VB 15/5000-LM	-	135°C	1500	1800	**11023**	**11023**	223	4.0	3.7	6.00	5.00	7.02	8.00

6 poles - 1,000/1,200 rpm

Three-phase

602171	**VB 12-2510**	VB 10/2510-D	•	150°C	-	1200	**-**	**5512**	150	-	1.9	-	3.22	-	3.27
602056	**VB 12-5500**	VB 10/5500-D	-	-	-	1200	**-**	**12125**	243	-	5.0	-	7.70	-	5.00

Category: II 2 D

Level of protection:

Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)

Temperature class:

see tables

Zones of use:

21, 22

Certifications

Compliance with the applicable European Union directives.

Standard CAN/CSA – C22.2, N°.100-95,
Certificate n° LR 100948
Class 4211 01 - Motors and generators
UL 1004-1 – Rotating Electrical Machines – General Requirements

II2D (2014/34/UE)
Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
EN 60079-0
EN 60079-31

Ex tD A21 T...°C IP66 (Ex tb IIIC T...°C Db)
IEC 60079-0
IEC 60079-31

Version VB-C available on request
Class I Div.2, Groups ABCD
Standard CAN/CSA – C22.2

Certification for Eurasian Customs Union
N° TC N RU Д-IT.АЛ33.B.02527
N° TC RU C-IT.ГБ08.B.02190

KOSHA Korea
Certificate n° 11-AVG BO-0359
Ex td A21 IP66

Electric motor
Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to requirements of vibrating machines. Insulated windings using “drop by drop” trickle system with class H resin. The rotor is die cast aluminium.

Casing
In spheroidal cast iron to have high strength and optimal elasticity.

Bearing flange
The two flanges, made in spheroidal cast iron, are characterized by external tapered diameter for fixing in the vibrating machine.

Bearings
Custom made with particular geometry, especially designed for Italvibras, suitable to support both high radial and axial loads.

Motor shaft
In treated steel alloy (Isothermic hardening) resistant to stress. On request both shaft ends may be modified to be adapted to the user weights.

Eccentric weights
Not provided, to be made and mounted by the user.

Weight covers
Not provided.

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours.

For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

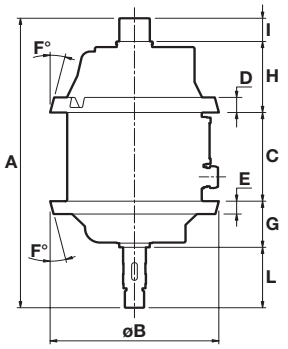


Fig. H

DIMENSIONAL FEATURES (inches)

Type	Fig.	A	ØB	C	D	E	F°	G	H	I	L	Cable entry
VB 18-2200	**H**	20.37	11.06	6.24	**1.06**	**0.91**	**14**	3.25	5.00	1.63	4.25	M32x1.5
VB 18-2510	**H**	20.37	11.06	6.24	**1.06**	**0.91**	**14**	3.25	5.00	1.63	4.25	M32x1.5
VB 18-3000	**H**	20.59	11.12	5.98	**0.98**	**0.98**	**14**	4.45	5.10	1.50	3.56	M25x1.5
VB 18-5000-LM	**H**	21.85	13.46	8.19	**1.89**	**1.89**	**25**	4.33	4.69	1.89	2.76	M25x1.5
VB 12-2510	**H**	20.37	11.06	6.24	**1.06**	**0.91**	**14**	3.25	5.00	1.63	4.25	M32x1.5
VB 12-5500	**H**	23.90	11.12	8.50	**0.98**	**0.98**	**14**	4.69	5.65	1.50	3.56	M32x1.5

Ia/In = ratio between start-up current and maximum current.

VB-E

The double-conical flange VB-E vibrators have been designed for use in industrial processes where explosive gas and dust particles are present, in compliance with ATEX Directive (2014/34/UE) and in compliance with IECEx Scheme.

They are supplied without eccentric weights, which must be realised and mounted by the manufacturer of the vibrating machine. In particular, these vibrators can be used in areas 1 and 2 (gas) and in areas 21 and 22 (dusts) according to the layout and following features:

Technical features

Power supply
Three-phase voltage from 220V to 690V, 50Hz or 60Hz; variable frequency (in presence of PTC thermistor) from 20Hz to the base frequency with constant torque load profile type PWM.

Polarity
4 poles.

Conformity with Standards and Regulations
ATEX Directive 2014/34/UE;
EN/IEC 60079-0, EN/IEC 60079-7,
EN/IEC 60079-31, EN/IEC 60034-1.

Quality Controls
The components that affect protection are 100% accurately controlled and recorded.

Functioning
Continuous service (S1) at maximum declared centrifugal force and electric power.

Centrifugal force
Range extended up to 11000 lbs (49 kN), eccentric weights not included.

Mechanical protection
IP 66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Insulation class
Class F (155°C).

Tropicalization
Standard with “drop by drop” trickle system.

Ambient temperature
From -4°F to +104°F (-20°C to +40°C), on request it is possible to have vibrators for maximum ambient temperatures of 131°F (+55°C).

Vibrator thermal protection
Standard PTC rated thermistor heat detectors 266°F (130°C) for VB 18/5000E-LM, on request for smaller sizes.

Also on request thermistors with different temperatures, bimetallic thermal protections and anti-condensation heaters.

Fixing of the vibrator
Typical vertical assembly with double tapered flange.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Terminal box
The size guarantees passage of tools used for fixing the vibrator to the vibrating machine. The electrical connection must be carried out using the relative connectors inserted inside the connection box.

Electric motor
Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to requirements of vibrating machines. Insulated windings using “drop by drop” system with class H resin. The rotor is die cast aluminium.

4 poles - 1,500/1,800 rpm

Three-phase

DESCRIPTION				MECHANICAL SPECIFICATIONS					ELECTRICAL SPECIFICATIONS							
				rpm		Centrifugal force lbs		Weight lbs	Temp. class (G)	Temp. class (D)	Power Output HP		Max current A		tE (s)	Ia/In
Code	Type	Type (EU)	Poles	50Hz	60Hz	50Hz	60Hz				50Hz	60Hz	400V 50Hz	460V 60Hz		
6E1223	**VB 18-2510E**	VB 15/2510-D-E	4	1500	1800	**5512**	**5512**	150	T3	150°C	1.9	2.0	2.85	2.80	7	6.70
									T4		1.4	1.5	2.38	2.30	6	7.76
6E1378	**VB 18-5000E-LM**	VB 15/5000E-LM	4	1500	1800	**11023**	**11023**	223	T3	135°C	3.4	3.8	5.70	5.45	6	7.00

Category: II 2D & II 2G

Level of protection:

Ex tb IIIC T...°C Db

Ex e IIC T3/T4 Gb

Temperature class:

See Table

Zones of use:

1, 2, 21, 22

Certifications

Compliance with the applicable European Union directives.

II2G II2D (2014/34/UE)
Ex e IIC T3/T4 Gb
Ex tb IIIC T...°C Db
EN 60079-0
EN 60079-7
EN 60079-31

Ex e IIC T3/T4 Gb
Ex tb IIIC T...°C Db
IEC 60079-0
IEC 60079-7
IEC 60079-31

Certification for Eurasian Customs Union
N° TC RU C-IT.ГБ08.B.02190

KOSHA Korea
Certificate n° 11-AVG BO-0346/7/8/9/50/51
Ex e IIT3/T4
Ex td A21 IP66

Casing
In spheroidal cast iron to have high strength and optimal elasticity.

Bearing flange
The two flanges, made in spheroidal cast iron, are characterized by external tapered diameter for fixing in the vibrating machine.

Bearings
Custom made with particular geometry, especially designed for Italvibras, suitable to support both high radial and axial loads.

Motor shaft
In treated steel alloy (Isothermic hardening) resistant to stress. On request both shaft ends may be modified to be adapted to the user weights.

Eccentric weights
Not provided, to be made and mounted by the user.

Weight covers
Not provided.

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours.

For further details please contact sales offices at Italvibras.
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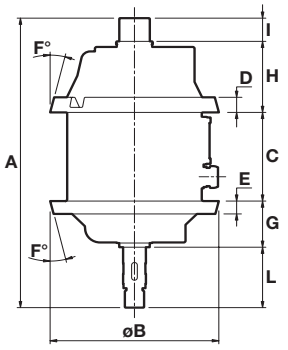


Fig. H

DIMENSIONAL FEATURES (inches)

Type	Fig.	A	ØB	C	D	E	F°	G	H	I	L	Cable entry
VB 18-2510E	**H**	20.37	11.06	6.00	**1.06**	**0.91**	**14**	3.25	5.00	1.63	4.25	M32x1.5
VB 18-5000E-LM	**H**	21.85	13.46	8.19	**1.89**	**1.89**	**25**	4.19	4.33	2.38	2.76	M25x1.5

tE (s) = set time tE from IEC/EN 60079-7. Ia/In = ratio between start-up current and maximum current.

VR

Technical features

Functioning
VR rotational motion exciters have a spheroidal cast iron body, within which two bearings support a shaft with eccentric weights fitted at either end, generating the declared centrifugal force.
Static moment, thus centrifugal force, are adjustable by means of additional weight inserts in steel or lead.
Bearings are lubricated by oil bath, which must be inserted by the end user.
The typical application is with two VR exciters coupled together by means of a cardan shaft, with each VR fitted at either side of the machine.
They are available in executions 1U and 2U, with one joint and two joints respectively.
The rotation of the shaft of the exciter with two joints (2U) is obtained by means of an external drive, connecting to the shaft by means of a joint, generally a cardan (recommended).
The external drive can be an electric motor, or hydraulic or other, to be connected directly to the joint by means of belts and pulleys and can have variable speed in function of the exciter specifications.

Conformity to Directives
In the application field of the Machinery Directive 2006/42/EC, the VR rotational motion exciters can be considered as “partly completed machinery”.

Static moment
The total static moment of a pair of VR exciters varies from 373 to 6386 in-lbs depending on the model.
For each single model the static moment can be set thanks to the additional steel or lead inserts.

Centrifugal force
Up to 130200 lbs (581 kN) by pair of VR exciters.

Ambient temperature
From -40°F to +158°F (-40°C to +70°C).

Mounting position
VR exciters can be mounted with the shafts in horizontal position.

Lubrication
Oil bath lubricated bearings. Each exciter is supplied without oil which has to be inserted by the end user following relevant instructions as per Manual.

Driving system
The movement is transmitted by an external driving system coupled to the shaft of the 2U version VR by means of a joint, generally a Cardan (recommended).
The external driving system can be an electric motor, a hydraulic motor or other type of motor, directly coupled or by belts and pulleys.

Casing
In spheroidal cast iron.

Bearings
Spherical double crown roller bearings, high rated lifetime at maximum load.

Motor shaft
In treated steel alloy (isothermal hardening) resistant to stress.

Eccentric weights
Steel or cast iron eccentric weights, additional steel or lead insert weights.

Weight cover
The VR oscillators are equipped with one weight cover on the side which remain to the external to protect the rotating weight

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours

The VR series of rotational motion exciters are designed for use in pairs, on vibrating machines or medium and large sizes.

The technical choices made in the design have allowed an excellent containment of noise as well as a long service life.

Centrifugal force setting is simple through the choice of additional insert weights.

With the VR exciters it is possible to obtain a unidirectional vibration with high values of centrifugal force by fitting two pairs of VR oscillators in parallel on the vibrating machine.

Other features
The VR Italvibras exciters are supplied with:
- coupling flange according to DIN standards on the shaft
- additional weights, based on the requested weight setting
- oil level inspection hole, magnetic plugs and breathing plug with valve
- technical handbook for use and maintenance.

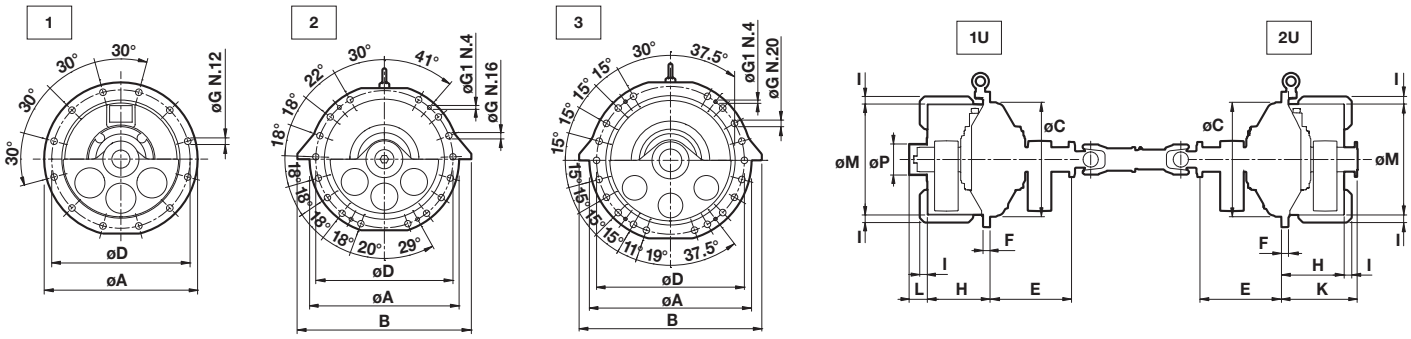
On request Italvibras can supply the complete driving system, including joints, shaft extension and electric motor.

Different fixing distances can be available.
Contact Italvibras Sales Service.
Technical features and models mentioned in this catalogue are indicative and not binding. Italvibras reserves the right to modify them without any obligation.

VR

DESCRIPTION					SPECIFICATIONS					
Code	Execution	Type	Type (EU)	SIZE	Additional weights setting	Static moment lbs	Max RPM	Centrifugal force lbs	Weight lbs	Drive Motor Rating HP
0605043	1U	**VR 12-5000**	VR 5000/6-S08	280	Min	373	1500	**23810**	315+315	7.5
0605044	2U				Max	843	1000	**23891**	377+377	
0605048	1U	**VR 12-8000**	VR 8000/6-S08	297	Min	715	1600	**51864**	525+525	15
0605049	2U				Max	1352	1213	**56350**	597+597	
0605046	1U	**VR 12-10000**	VR 10000/6-S08	297	Min	905	1444	**53484**	562+562	15
0605047	2U				Max	1713	1094	**58114**	653+653	
0605050	1U	**VR 12-11500**	VR 11500/6-S08	297	Min	1049	1354	**54520**	595+595	20
0605051	2U				Max	1989	1000	**56394**	701+701	
0605052	1U	**VR 12-14000**	VR 14000/6-S08	310	Min	1540	1334	**77647**	825+825	20
0605053	2U				Max	2439	1092	**82453**	915+915	
0605054	1U	**VR 12-17500**	VR 17500/6-S08	310	Min	1625	1303	**78198**	842+842	25.0
0605055	2U				Max	3058	1000	**86642**	992+992	
0605056	1U	**VR 9-19000**	VR 19000/8-S08	310	Min	1772	1255	**79080**	866+866	20 (8 poles)
0605057	2U				Max	3308	957	**85848**	1025+1025	
0605058	1U	**VR 12-27500**	VR 27500/6-S08	320	Min	3441	1074	**112502**	1393+1393	40
0605059	2U				Max	4796	980	**130514**	1500+1500	
0605060	1U	**VR 9-37000**	VR 37000/8-S08	320	Min	3789	1030	**113935**	1453+1453	40 (8 poles)
0605061	2U				Max	6386	820	**121695**	1654+1654	

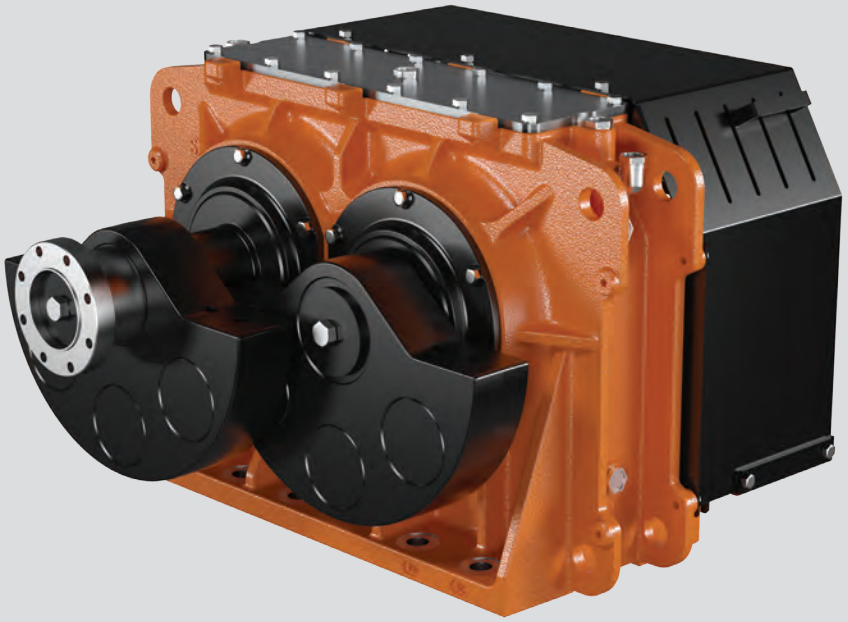
* Working moment = 2 x static moment.



DIMENSIONAL SPECIFICATIONS (inches)

Type	Ref.	ØA	B	Fixing ØC	ØD	ØG	ØG1	E	F	H	I	K	L	ØM	ØP
VR 12-5000	**1**	20.08	-	15.75	18.11	0.87	-	10.73	0.98	7.97	1.28	9.94	2.64	16.34	3.82
VR 12-8000	**2**	24.02	27.95	19.29	22.05	1.02	0.63	12.97	1.18	9.78	1.28	11.99	3.07	18.62	5.24
VR 12-10000	**2**	24.02	27.95	19.29	22.05	1.02	0.63	13.74	1.18	10.57	1.28	12.76	3.07	18.62	5.24
VR 12-11500	**2**	24.02	27.95	19.29	22.05	1.02	0.63	14.33	1.18	11.26	1.28	13.35	3.07	18.62	5.24
VR 12-14000	**2**	24.02	27.95	19.29	22.05	1.02	0.63	16.34	1.18	12.99	1.28	15.35	3.19	20.00	5.51
VR 12-17500	**2**	24.02	27.95	19.29	22.05	1.02	0.63	16.34	1.18	12.99	1.28	15.35	3.19	20.00	5.51
VR 9-19000	**2**	24.02	27.95	19.29	22.05	1.02	0.63	16.34	1.18	12.99	1.28	15.35	3.19	20.00	5.51
VR 12-27500	**3**	31.10	35.04	24.80	28.35	1.26	0.63	18.25	1.38	14.41	1.28	16.99	3.27	24.41	6.42
VR 9-37000	**3**	31.10	35.04	24.80	28.35	1.26	0.63	18.25	1.38	14.41	1.28	16.99	3.27	24.41	6.42

VU



Technical features

Functioning
VU linear motion exciters are composed of a casing (central body) that, by means of 4 bearings supports two shafts, synchronized by two helicoidal ground gears. The eccentric weights are mounted at the end of both shafts, rotating synchronized in opposite sense, determining a resulting unidirectional centrifugal force perpendicular to the mounting surface of the exciter.

Conformity with Standards and Regulations
In the application field of the Machinery Directive 2006/42/EC, the VU linear motion exciters can be considered as “partly completed machinery”.

Static moment
From 273 to 10393 in-lbs. The static moment of eccentric weights can be adjusted by means of the additional weights.

Centrifugal Force
Up to 161000 lbs (718 kN).

Ambient temperature
From -40°F to +158°F (-40°C to +70°C).

Exciter mounting position
VU exciters can be mounted in all positions, always with the shafts in horizontal position.

Lubrication
Gears and bearings are oil splash / spray lubricated.

Driving system
The movement is transmitted by an external driving system coupled with the driving shaft by means of a joint, generally a Cardan joint (recommended). The external driving system can be an electric motor, a hydraulic motor or other motor type, directly coupled or by belts and pulleys.

Casing
In spheroidal cast iron.

Bearings
Spherical roller bearings, highest quality, long rated lifetime in conditions of maximum load.

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

Eccentric weights / additional weights
Eccentric weights in steel, additional weights in steel and/or lead.

Weight covers
All exciters are equipped with two weight covers for protection from rotating parts.

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

Other features
The VU Italvibras exciters are supplied with:
- coupling flange according to DIN standard on the driving shaft (on request a second flange on the opposite side);
- additional weights, based on the requested weights setting;
- oil level dipstick, magnetic plugs and breather plug with valve;
- technical handbook for use and maintenance.

The VU series linear motion exciters manufactured by Italvibras have been designed for medium and large size vibrating machines operating in many industrial processes.

The state of the art design and components selected offer reliable performance and low operating noise, resulting in a longer lifetime for bearings and gears.

Model VU exciters can be mounted in line (connected through cardan shafts), in order to achieve higher centrifugal forces.

Italvibras competence and experience, in the vibration field by over 50 years, are the best guarantee for reliability and safety of the VU series exciters.

The VU linear motion exciters are completely designed, manufactured and tested in Italy.

On request Italvibras can supply the complete driving system including joints, shaft extension and electric motor.

Other mounting bolt patterns are available. For further details please contact sales offices at Italvibras.
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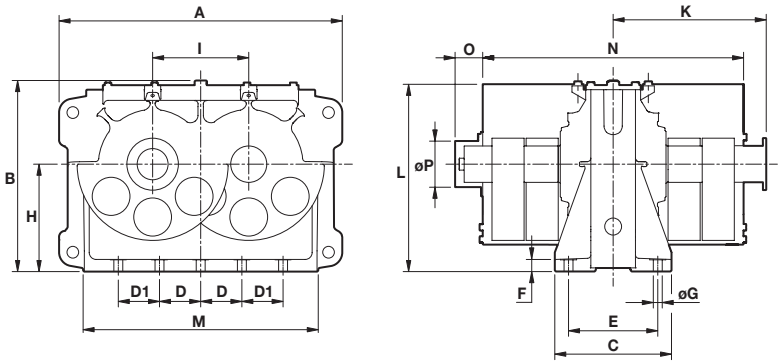
VU

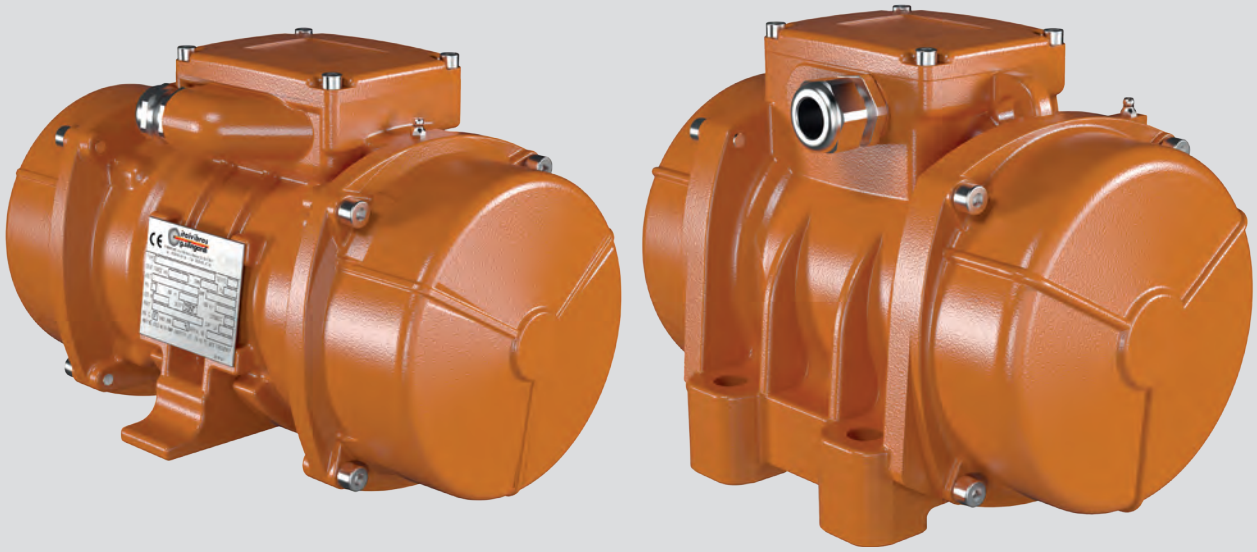
DESCRIPTION				SPECIFICATIONS						
					Static moment		Centrifugal Force	Weight	Drive Motor Rating (HP)	
Code	Type	Type (EU)	Frame	Additional weights setting	in-lbs	Max RPM	lbs	lbs	1 VU	2 VU
0605033	**VU 12-5000**	VU 5000/6-S08	270	Min	273	1475	**16838**	529	4.0	10
				Max	473	1163	**18097**	584		
0605021	**VU 12-8000**	VU 8000/6-S08	280	Min	359	1534	**24055**	657	7.5	15
				Max	701	1098	**24055**	750		
0605020	**VU 12-10000**	VU 10000/6-S08	280	Min	373	1500	**23830**	664	7.5	15
				Max	843	1000	**23830**	787		
0605022	**VU 12-14000**	VU 14000/6-S08	295	Min	664	1460	**40241**	948	10	20
				Max	1213	1080	**40241**	1080		
0605032	**VU 12-16000**	VU 16000/6-S08	295	Min	692	1430	**40241**	955	15	25
				Max	1387	1000	**39342**	1122		
0605023	**VU 12-18000**	VU 18000/6-S08	297	Min	715	1600	**51931**	1241	15	25
				Max	1563	1138	**57551**	1431		
0605025	**VU 12-23000**	VU 23000/6-S08	297	Min	905	1500	**57776**	1391	20	40
				Max	1990	1000	**56652**	1634		
0605024	**VU 9-27000**	VU 27000/8-S08	297	Min	1049	1323	**51931**	1387	15	30
				Max	2316	890	**51931**	1671		
0605026	**VU 12-33000**	VU 33000/6-S08	310	Min	1535	1335	**77559**	1973	25	50
				Max	2833	1000	**80257**	2216		
0605028	**VU 12-38000**	VU 38000/6-S08	310	Min	1778	1262	**80257**	2092	25	50
				Max	3294	927	**80257**	2377		
0605027	**VU 9-42000**	VU 42000/8-S08	310	Min	1744	1200	**71265**	2092	25	50
				Max	3657	828	**71265**	2460		
0605034	**VU 9-60000**	VU 60000/8-S08	320	Min	3441	1000	**97568**	3199	40	75
				Max	5266	815	**99366**	3483		
0605029	**VU 9-74000**	VU 74000/8-S08	320	Min	3789	1000	**107459**	3351	40	100
				Max	6386	770	**107459**	3754		
0605041	**VU 9-103000**	VU 103000/8-S08	360	Min	5118	1000	**145227**	5000	60	125
				Max	8952	750	**142754**	5481		
0605042	**VU 9-120000**	VU 120000/8-S08	360	Min	5733	980	**156243**	5214	76	150
				Max	10393	740	**161414**	5798		



Dimensional specifications (inches)

Type	A	B	C	D	D1	E	ØG	N°	F	H	I	K	L	M	N	O	ØP
VU 12-5000	25.79	16.14	9.84	**1x7.48**	**2x4.33**	**6.50**	**0.87**	**8x3/4”**	0.98	8.86	8.27	12.62	16.04	21.46	20.87	2.74	3.82
VU 12-8000	27.56	17.85	10.24	**1x7.48**	**2x4.33**	**6.50**	**0.87**	**8x3/4”**	1.18	9.45	9.13	13.01	17.42	22.64	21.85	2.74	3.82
VU 12-10000	27.56	17.85	10.24	**1x7.48**	**2x4.33**	**6.50**	**0.87**	**8x3/4”**	1.18	9.45	9.13	13.05	17.42	22.64	21.85	2.74	3.82
VU 12-14000	29.92	20.02	10.63	**1x8.66**	**2x4.33**	**7.48**	**1.02**	**8x1”**	1.18	11.02	10.08	15.31	19.59	25.20	26.38	2.74	4.21
VU 12-16000	29.92	20.02	10.63	**1x8.66**	**2x4.33**	**7.48**	**1.02**	**8x1”**	1.18	11.02	10.08	15.31	19.59	25.20	26.38	2.74	4.21
VU 12-18000	32.48	21.71	13.39	**4x4.72**	**-**	**10.24**	**1.02**	**10x1”**	1.38	12.20	11.02	16.02	21.28	26.97	26.97	3.17	5.24
VU 12-23000	32.48	21.71	13.39	**4x4.72**	**-**	**10.24**	**1.02**	**10x1”**	1.38	12.20	11.02	17.56	21.28	26.97	29.92	3.17	5.24
VU 9-27000	32.48	21.71	13.39	**4x4.72**	**-**	**10.24**	**1.02**	**10x1”**	1.38	12.20	11.02	18.74	21.28	26.97	32.28	3.17	5.24
VU 12-33000	36.42	24.76	14.96	**5x4.72**	**-**	**11.81**	**1.26**	**12x1 1/8”**	1.38	13.78	12.60	18.76	24.33	30.31	32.09	3.27	5.63
VU 12-38000	36.42	24.76	14.96	**5x4.72**	**-**	**11.81**	**1.26**	**12x1 1/8”**	1.38	13.78	12.60	20.10	24.33	30.31	34.84	3.27	5.63
VU 9-42000	36.42	24.76	14.96	**5x4.72**	**-**	**11.81**	**1.26**	**12x1 1/8”**	1.38	13.78	12.60	20.65	24.33	30.31	36.02	3.27	5.63
VU 9-60000	42.13	27.87	18.50	**4x4.72**	**2x5.91**	**15.35**	**1.26**	**14x1 1/8”**	1.38	15.35	14.57	19.65	27.50	36.22	38.19	1.18	8.19
VU 9-74000	42.13	27.87	18.50	**4x4.72**	**2x5.91**	**15.35**	**1.26**	**14x1 1/8”**	1.38	15.35	14.57	23.31	27.50	36.22	41.14	3.35	6.34
VU 9-103000	50.39	32.68	19.69	**1x11.02**	**4x6.30**	**16.14**	**1.54**	**12x1 3/8”**	1.77	18.11	17.32	24.78	32.32	44.68	42.32	4.55	7.87
VU 9-120000	50.39	32.68	19.69	**1x11.02**	**4x6.30**	**16.14**	**1.54**	**12x1 3/8”**	1.77	18.11	17.32	26.04	32.32	44.68	44.88	4.55	7.87

ITV-VR / ITVAF



Technical features

Power supply
Three-phase voltage from 24V to 690V at the various frequencies, depending on the type and series. For the power supply of the vibrators it is possible to use electronic frequency drives or electromechanical frequency converters.

Conformity with Standards and Regulations
Low Voltage Directive 2014/35/UE; EN/IEC 60034-1; UL 1004-1, CSA C22.2 No.100, NEMA MG-1.

Operation
Continuous service (S1) at the maximum declared centrifugal force and electric power values.

Centrifugal force
Range extended up to 11660 lbs (52 kN) with force output adjustable by varying weights position.

Mechanical protection
IP 66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Insulation class
Class F (155°C).

Tropicalization
Standard on all vibrators, with vacuum encapsulation up to size AF33 and for frame size AF70, with “drop by drop” trickle system for sizes AF50 and AF68. (on request vacuum encapsulated winding may be supplied for these two frame sizes).

Ambient temperature
To operate correctly, from -4°F to +104°F (-20°C to +40°C).

Vibrator thermal protection
With PTC rated thermistor heat detectors 266°F (130°C) installed as part of the standard assembly size AF70 onwards.
Also on request thermistors with different temperatures and anti-condensation heaters can be assembled on the lower sizes.

Fixing of the vibrator
In all positions and therefore without restriction. Two different types of connection are available for the ITV-VR and ITVAF series: fixed connection, where the electric vibrators are connected to the structure by bolts through fixing holes and the RS cradle connection, where the electric vibrators are connected to the structure with the standardized cradle type RS2 except for frame size AF10, for this the cradle fixing is type RS1.

Lubrication
All the electric vibrators are correctly lubricated in our factory and need no further lubrication at start-up.

Terminal box
Generously sized to make the electrical connections easier. Special shaped terminals allow to fix the power supply cable.

Electric motor
Three-phase asynchronous type. Insulated windings using vacuum encapsulating up to size AF33 and for AF70; using the “drop by drop” trickle system with class H resin for frame sizes AF50 and AF68. The rotor is die cast aluminium.

Casing
In high tensile strength aluminium alloy for frame sizes AF10 and AF33. In spheroidal cast iron for sizes AF33 (600245), AF50, AF68 and AF70, designed to optimize strength and performance at high speeds.

Bearings
A special shape, exclusively designed and made for Italvibras and able to bear strong loads at high speeds.

Motor shaft
in treated steel alloy (isothermic hardering) able to withstand high stress.

Eccentric weights
Specially shaped lamellar type that can be easily adjusted.

The ITV-VR and ITVAF electric vibrators series are suitable to be applied in plants and machines in the concrete and prefabrication fields, and in all sectors where high speeds are required.

In detail

- ITV-VR variable frequency series: the vibrators are able to supply up to 5300 kgf (52kN) of centrifugal force at frequencies variable from 0 to 6000rpm.
- ITVAF fixed frequency series: fixed frequency vibrators (6000 or 9000 rpm) provide centrifugal force up to 6160 lbs (27.5 kN).

Both are available with either fixed or cradle connection.

Upon request Italvibras can supply solutions to supply ITVAF and ITV-VR vibrators: frequency drives, control panels, fixed or movable, electromechanical or electronic control panels, manually controlled or via radio control, etc., depending on the needs of the plant.

Weight covers
In aluminium alloy except for frame size AF10 where covers are in stainless steel AISI 304.

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 392°F (200°C). Tested in salt spray for 500 hours.

Upon request Italvibras can supply solutions to supply ITVAF and ITV-VR vibrators: frequency drives, control panels, fixed or movable, electromechanical or electronic control panels, manually controlled or via radio control, etc., depending on the needs of the plant.

For further details please contact sales offices at Italvibras.
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Certifications

CE
Compliance with the applicable European Union directives.

c SA US
Standard CAN/CSA – C22.2, N°.100-95,
Certificate n° LR 100948
Class 4211 01 - Motors and generators
UL 1004-1 – Rotating Electrical Machines – General Requirements

EAC
Certification for Eurasian Customs Union
N° TC N RU Д-IT.АЛ33.B.02527

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ITV-VR / ITVAF

ITV-VR fixed connection

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS			ELECTRICAL SPECIFICATIONS			
									Max. current (A)		
					Vibrating range	Centrifugal force	Weight	Power Output	100Hz		Ia/In
Code	Type	Type (EU)	SIZE		(rpm)	lbs	lbs	HP	42V	400V	
600500	**ITV-VR/3500-S08**	ITV-VR/1210-S08	AF33	•	0-6000	**3459**	50.7	1.10	21.0	2.30	4.48
600507	**ITV-VR/4400-S08**	ITV-VR/2010-S08	AF33	•	0-6000	**4409**	59.5	1.80	27.0	2.90	5.00
600248	**ITV-VR/5500**	ITV-VR/2510	AF50	-	0-6000	**5512**	90.4	2.40	35.0	3.90	6.15
600249	**ITV-VR/5500-V***	ITV-VR/2510-V*	AF50	-	4500-6000	**5512**	90.4	2.40	35.0	3.90	6.15
600208	**ITV-VR/7300***	ITV-VR/3300*	AF68	-	4500-6000	**7275**	163	4.00	-	7.20	5.10
600514	**ITV-VR/36-11000-S02**	ITV-VR/5000-S02	AF70	-	0-4500	**11684**	231	5.50	-	8.00	5.30

ITV-VR RS cradle connection

									Max. current (A)		
					Vibrating range	Centrifugal force	Weight	Power Output	100Hz		Ia/In
Code	Type	Type (EU)	Gr.		(rpm)	lbs	lbs	HP	42V	400V	
600508	**ITV-VR/3500-RS-S08**	ITV-VR/1210-RS-S08	AF33	•	0-6000	**3459**	46.3	1.10	21	2.3	4.48
600245	**ITV-VR/4400-RS**	ITV-VR/2010-RS	AF33	•	0-6000	**4409**	61.7	1.80	27	2.9	5.00

* Special ventilated type for heavy service.

ITVAF fixed connection

Three-phase

DESCRIPTION					MECHANICAL SPECIFICATIONS			ELECTRICAL SPECIFICATIONS							
									Max. current (A)						
					Vibrating range	Centri-fugal force	Weight	Power Output	200Hz		150Hz		100Hz		Ia/In
Code	Type	Type (EU)	Gr.		(rpm)	lbs	lbs	HP	42V	250V	42V	250V	400V		
603050	**ITVAF 6/1350-S02**	ITVAF 6/600-S02	AF10	-	6000	**1345**	17.6	0.47	9.50	1.60	-	-	1.60		4.50
603053	**ITVAF 6/2400-S08**	ITVAF 6/1220-S08	AF33	-	6000	**2414**	50.7	1.23	23.0	3.85	-	-	3.90		6.04
603054	**ITVAF 6/3250-S08**	ITVAF 6/1510-S08	AF33	-	6000	**3272**	55.1	1.78	29.0	4.90	-	-	4.80		7.10
603037	**ITVAF 6/4400-S90 o**	ITVAF 6/2010-S90	AF50	-	6000	**4361**	88.2	2.28	35.0	5.90	-	-	5.90		8.00
603010	**ITVAF 6/6000 o**	ITVAF 6/3300°	AF68	-	6000	**6173**	163	4.00	-	-	-	-	11.0		5.10
604041	**ITVAF 9/2700-S08**	ITVAF 9/1110-S08	AF33	-	9000	**2712**	48.5	1.21	-	-	18	-	1.85		8.52
604042	**ITVAF 9/3250-S08**	ITVAF 9/1510-S08	AF33	-	9000	**3272**	52.9	1.63	-	-	24	4.0	2.50		10.40

ITVAF RS cradle connection

									Max. current (A)						
					Vibrating range	Centri-fugal force	Weight	Power Output	200Hz		150Hz		100Hz		Ia/In
Code	Type	Type (EU)	Gr.		(rpm)	lbs	lbs	HP	42V	250V	42V	250V	400V		
603055	**ITVAF 6/2400-RS-S08**	ITVAF 6/1220-RS-S08	AF33	-	6000	**2414**	46	1.23	23	3.85	-	-	3.9		6.04
603056	**ITVAF 6/3250-RS-S08**	ITVAF 6/1510-RS-S08	AF33	-	6000	**3272**	51	1.78	29	4.90	-	-	4.8		7.10
604043	**ITVAF 9/2700-RS-S08**	ITVAF 9/1110-RS-S08	AF33	-	9000	**2712**	44	1.21	-	-	18	-	1.85		8.52
604044	**ITVAF 9/3250-RS-S08**	ITVAF 9/1510-RS-S08	AF33	-	9000	**3272**	49	1.63	-	-	24	4.0	2.50		10.40

o Only supplied at 250V-100Hz, ventilated type, IP44 protection. Ia/In = ratio between start-up current and maximum current.

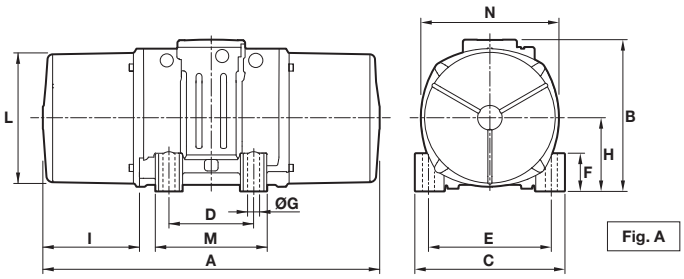

Fig. A

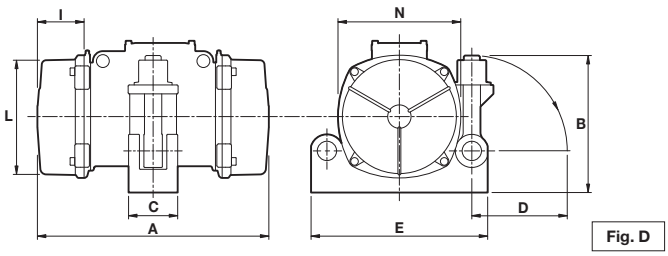

Fig. D

DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	Fig.	A	B	C	D	E	ØG	N°	F	H	I	L	M	N
ITV-VR/3500-S08	**A**	11.38	8.52	8.46	**3.94**	**7.09**	**0.67**	**4**	1.85	3.68	2.48	6.69	5.71	7.17
ITV-VR/4400-S08	**A**	14.76	8.52	8.46	**3.94**	**7.09**	**0.67**	**4**	1.85	3.68	4.17	6.69	5.71	7.17
ITV-VR/5500	**A**	18.03	9.13	9.06	**5.51**	**7.48**	**0.67**	**4**	1.93	4.09	4.00	7.20	7.09	7.87
ITV-VR/5500-V*	**A**	18.39	9.13	9.06	**5.51**	**7.48**	**0.67**	**4**	1.93	4.09	4.17	9.45	7.09	9.76
ITV-VR/7300*	**A**	20.79	10.51	12.20	**6.10**	**10.04**	**0.93**	**4**	4.80	4.53	5.51	10.43	8.46	10.83
ITV-VR/36-11000-S02	**A**	22.05	11.42	12.20	**6.10**	**10.04**	**0.98**	**4**	3.54	5.12	5.39	9.37	8.27	9.96

Holes

Type	Fig.	A	B	C	D	E	ØG	N°	F	H	I	L	M	N
ITV-VR/3500-RS-S08	**D**	11.38	7.44	3.27	**5.51**	**9.45**	**-**	**-**	-	-	2.48	6.69	-	7.17
ITV-VR/4400-RS	**D**	13.98	7.44	3.27	**5.51**	**9.45**	**-**	**-**	-	-	3.21	6.46	-	-

DIMENSIONAL SPECIFICATIONS (inches)

Holes

Type	Fig.	A	B	C	D	E	ØG	N°	F	H	I	L	M	N
ITVAF 6/1350-S02	A	10.04	7.05	5.98	**3.54**	**4.92**	**0.51**	**4**	1.10	2.87	2.13	4.88	5.04	5.55
ITVAF 6/2400-S08	A	11.38	8.52	8.46	**3.94**	**7.09**	**0.67**	**4**	1.85	3.68	2.48	6.69	5.71	7.17
ITVAF 6/3250-S08	A	14.76	8.52	8.46	**3.94**	**7.09**	**0.67**	**4**	1.85	3.68	4.17	6.69	5.71	7.17
ITVAF 6/4400-S90°	A	18.03	9.06	9.06	**5.51**	**7.48**	**0.67**	**4**	1.93	4.09	4.00	7.32	7.09	7.87
ITVAF 6/6000°	A	20.79	10.51	12.20	**6.10**	**10.04**	**0.93**	**4**	4.80	4.53	5.51	10.43	8.46	10.83
ITVAF 9/2700-S08	A	11.38	8.52	8.46	**3.94**	**7.09**	**0.67**	**4**	1.85	3.68	2.48	6.69	5.71	7.17
ITVAF 9/3250-S08	A	14.76	8.52	8.46	**3.94**	**7.09**	**0.67**	**4**	1.85	3.68	4.17	6.69	5.71	7.17

Holes

Type	Fig.	A	B	C	D	E	ØG	N°	F	H	I	L	M	N
ITVAF 6/2400-RS-S08	**D**	11.38	7.44	3.27	**5.51**	**9.45**	**-**	**-**	-	-	2.48	6.69	-	7.17
ITVAF 6/3250-RS-S08	**D**	14.76	7.44	3.27	**5.51**	**9.45**	**-**	**-**	-	-	4.17	6.69	-	7.17
ITVAF 9/2700-RS-S08	**D**	11.38	7.44	3.27	**5.51**	**9.45**	**-**	**-**	-	-	2.48	6.69	-	7.17
ITVAF 9/3250-RS-S08	**D**	14.76	7.44	3.27	**5.51**	**9.45**	**-**	**-**	-	-	4.17	6.69	-	7.17

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