



The MVSI series represents the line of reference products for manufacturer's 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 30500 Kgf (300kN).

The MVSI series has been conceived to guarantee higher performance in all conditions and environments and complies with the most recent IEC and EN international standards for use in atmospheres with potentially explosive powders. In particular, the MVSI series can be used in areas 21 and 22.

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 European Directives

Low voltage 2006/95/EC; ATEX 94/9/EC.

Reference Regulations

EN 60034-1, IEC/EN 61241-0, IEC/EN 61241-1.

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 30500 Kgf. (300 kN), with centrifugal force adjustable from 0 to 100%.

Mechanical protection

IP 66 according to IEC 529, EN 60529.

Protection against mechanical impacts

IK 08 according to IEC 68, EN 50102.

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 -20°C to +40°C. Versions for higher or lower temperatures are available on request.

Vibrator thermal protection

Standard PTC rated thermistor heat detectors 130°C (DIN 44081-44082) 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 if used in normal operating conditions ("FOR LIFE" lubrication). In heavy duty operating conditions periodical re-lubrication may be applied to size 35 and larger.

Terminal box

Large fixed electrical connections. 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 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 high-tensile aluminium alloy up to size 60, in spheroidal cast iron for larger sizes. Patented shape that improves heat dispersion and lowers normal working temperature at full load.

Category: II 2 D

Level of protection: tD A21 IP66

Temperature class: see tab. page 6-13

EC certificate: LCIE 05 ATEX 6163 X

Areas of use: 21, 22



Certifications

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 Italtvibras, suitable to support both high radial and axial loads.

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 (patent N°MO98A000194), called ARS, prevents adjustment errors.

Weight covers

In aluminium alloy. On several sizes split covers are available, please refer to section MVSI-TS on page 14. On request stainless steel AISI 304 weight covers can be supplied.

Painting

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

Stainless steel protection

On request, corrosion high grade protection (stainless steel micro suspensions in a polyurethanic paint) is available.

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

Regulation CAN/CSA - C22.2 N. 100-95,
file n° LR100948 Class 4211 01 –
Motors and generators.



Mechanical protection IP66 (EN 60529),
protection against impacts IK 08
(EN 50102)



II 2 D, tD A21 IP66
IEC/EN 61241-0, IEC/EN 61241-1
Certificate n. LCIE 05 ATEX 6163X



Certificate GOST-R n° POCC IT.ГБ04.В01154,
standards GOST R 51330.0-99,
GOST R 51330.1-99, GOST R 51330.8-99,
GOST R IEC 61241-1-1-99



Certificate of Conformity
n° IECEx CES 09.0001X
standards IEC 61241-0, IEC 61241-1



Comply with the applicable
European Union directives



CHICAGO VIBRATOR PRODUCTS

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MVSI 18 ELECTRIC VIBRATOR SERIES

three-phase

4 poles		
Hz	50	60
RPM	1500	1800

DESCRIPTION						MECHANICAL FEATURES						ELECTRICAL FEATURES				OVERALL DIMENSIONS (inches)															
Part Number	Model	Design	Frame Size	Ex I/2D Temp. Class	Temp. Class	Static Moment* in-lbs		Centrifugal Force lbs		Weight lbs		Power Output HP		Max Current A		Model	Design	Type	A	B	C	D	E	Foot holes		F	H	I	L	M	N
						50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	400 V 50 Hz	460 V 60 Hz									øG	N°						
601340	MVSI 18-100	S02	00	•	120°C	1.04	1.04	66	96	12.3	12.3	0.05	0.06	0.21	0.20	MVSI 18-100	S02	A	8.31	6.02	4.92	2.44-2.91**	4.17	0.35	4	0.94	2.40	1.81	4.06	3.94	4.61
601341	MVSI 18-180	S02	01	•	120°C	2.70	1.83	171	167	14.7	14.1	0.05	0.06	0.21	0.20	MVSI 18-180	S02	A	9.25	6.02	4.92	2.44-2.91**	4.17	0.35	4	0.94	2.40	2.28	4.06	3.94	4.61
601366	MVSI 18-250	S02	01	•	120°C	3.38	2.70	215	246	15.6	14.7	0.05	0.06	0.21	0.20	MVSI 18-250	S02	A	9.80(50Hz) 9.25(60Hz)	6.02	4.92	2.44-2.91**	4.17	0.35	4	0.94	2.40	2.56(50Hz) 2.28(60Hz)	4.06	3.94	4.61
601367	MVSI 18-480	S02	10	•	120°C	7.32	5.11	469	471	27.5	25.7	0.13	0.13	0.41	0.40	MVSI 18-480	S02	A	11.85	7.05	5.98	3.54	4.92	0.51	4	1.10	2.87	3.03	5.00	5.04	5.55
601372	MVSI 18-920	S02	20	•	120°C	14.2	9.83	906	904	41.8	40.0	0.29	0.37	0.60	0.60	MVSI 18-920	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
601373	MVSI 18-1310	S02	20	•	120°C	19.0	14.2	1214	1302	44.9	41.8	0.29	0.37	0.60	0.60	MVSI 18-1310	S02	A	15.20	7.99	6.57	4.13	5.51	0.51	4	1.18	3.25	4.49	5.71	5.51	6.30
601408	MVSI 18-1690	S02	30	•	120°C	24.9	18.2	1584	1672	60.5	57.6	0.51	0.66	0.92	0.98	MVSI 18-1690	S02	A	15.51	8.50	8.07	4.72	6.69	0.67	4	1.77	3.68	4.17	6.69	6.30	7.17
601513	MVSI 18-2280	S02	30	•	120°C	31.0	24.9	1980	2281	66.0	60.5	0.51	0.66	0.92	0.98	MVSI 18-2280	S02	A	15.51	8.50	8.07	4.72	6.69	0.67	4	1.77	3.68	4.17	6.69	6.30	7.17
601524	MVSI 18-2150	S02	35	•	120°C	36.1	23.6	2299	2160	77.0	67.1	0.54	0.67	0.95	0.95	MVSI 18-2150	S02	A	17.13	8.86	8.07	4.72	6.69	0.67	4	2.13	4.11	4.63	7.36	6.38	7.99
601217	MVSI 18-3190	S02	40	•	120°C	48.8	34.8	3109	3188	96.8	90.2	1.0	1.2	1.45	1.50	MVSI 18-3190	S02	A	17.64	9.69	9.06	5.51	7.48	0.67	4	2.13	4.57	4.25	8.15	7.48	8.86
601219	MVSI 18-3870	S02	50	•	150°C	62.2	42.2	3956	3865	112	107	1.1	1.2	2.00	1.90	MVSI 18-3870	S02	A	19.69	9.69	9.06	5.51	7.48	0.67	4	2.13	4.57	5.28	8.15	7.48	8.86
601267	MVSI 18-4500	S02	50	•	170°C	71.0	48.8	4519	4473	122	113	1.3	1.5	2.50	2.30	MVSI 18-4500	S02	A	22.60	9.69	9.06	5.51	7.48	0.67	4	2.13	4.57	6.73	8.15	7.09	8.86
601220	MVSI 18-5380	S08	60	•	150°C	83.6	58.6	5324	5377	156	145	1.8	1.9	3.20	3.00	MVSI 18-5380	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
601268	MVSI 18-6850	S08	60	•	135°C	107	74.6	6833	6835	176	162	2.0	2.2	3.80	3.50	MVSI 18-6850	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
601221	MVSI 18-8300	S02	70	•	135°C	133	89.9	8448	8237	262	242	2.4	2.8	3.90	3.90	MVSI 18-8300	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
601269	MVSI 18-9420	S02	70	•	135°C	150	102	9517	9350	271	257	2.7	3.3	4.80	4.65	MVSI 18-9420	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
601211	MVSI 18-10900	S02	80	•	135°C	173	119	11015	10870	354	337	4.0	3.7	6.00	5.00	MVSI 18-10900	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
601447	MVSI 18-13400	S02	80	•	135°C	195	146	12439	13365	360	341	4.0	3.7	6.00	5.00	MVSI 18-13400	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
601165	MVSI 18-14500	S02	90	•	135°C	226	158	14379	14520	458	429	6.7	7.0	10.5	9.00	MVSI 18-14500	S02	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
601166	MVSI 18-17600	S90	95	°	135°C	283	197	18038	18003	495	462	7.6	8.9	11.6	11.5	MVSI 18-17600	S90	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
601204	MVSI 18-19700	S02	97	°	135°C	291	214	18515	19615	697	667	8.0	9.2	12.2	12.0	MVSI 18-19700	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
601205	MVSI 18-25300	S90	100	°	135°C	395	275	25146	25227	953	904	11.5	12.2	17.5	15.5	MVSI 18-25300	S90	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
601271	MVSI 18-32900	S90	100	°	135°C	488	359	31064	32868	1008	933	12.9	17.8	20.0	20.0	MVSI 18-32900	S90	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

* Working Moment = 2 x Static Moment. Static Moment = Unbalance.
For 230 V, 60 Hz amperage, double the 460 V, 60 Hz amperage.

CHICAGO VIBRATOR PRODUCTS

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

-  * CSA Approval available if factory wired.
-  CSA Approval for Class I, Division 2, Groups A, B, C and D hazardous locations. Available upon request.
-  Product approved for European Directive 94/9/EC (EN 61241-0, EN 61241-1): ATEX II2D, tD A21 IP66 (temperature class detailed in table).
-  All listed products are in compliance with GOST R 51330.0-99, GOST R 51330.1, GOST R 51330.8-99, GOST R IEC 61241-1-1-99.
-  Product approved for IECEx Scheme following IEC 61241-0, 61241-1: II2D, tD A21 IP66 (Temperature class detailed in table).
-  In compliance with all applicable European Directives.

