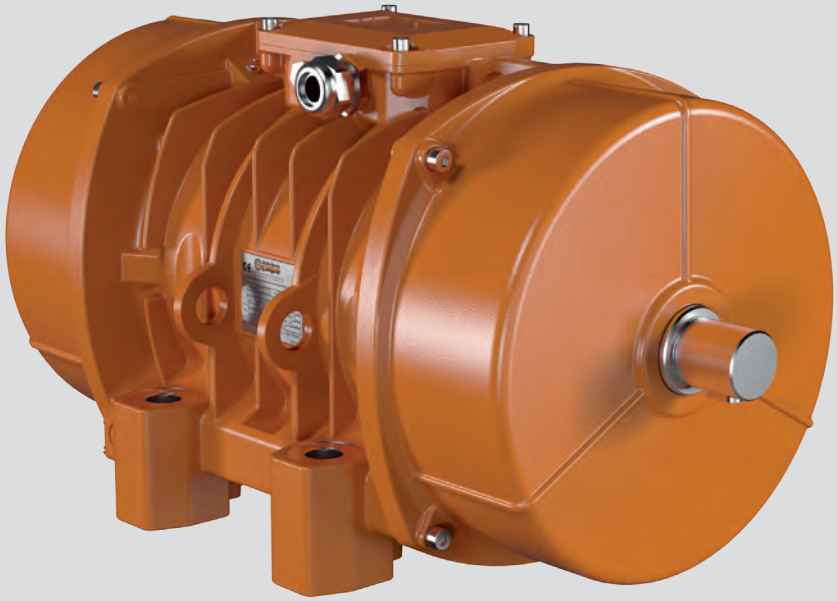
MVSI-ACC



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

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

Vibrator thermal protection
With PTC rated thermistor heat detectors 130°C.
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, using a 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 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 200°C. Tested in salt spray fro 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 SP 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 SP us
Version MVSI-ACC-C available on request
Class I Div.2, Groups ABCD
Standard CAN/CSA – C22.2