

MVSI-TS



Split covers

The MVSI-TS 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. According to requirements it is possible to mount one or two split weight covers.

The MVSI-TS 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.

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

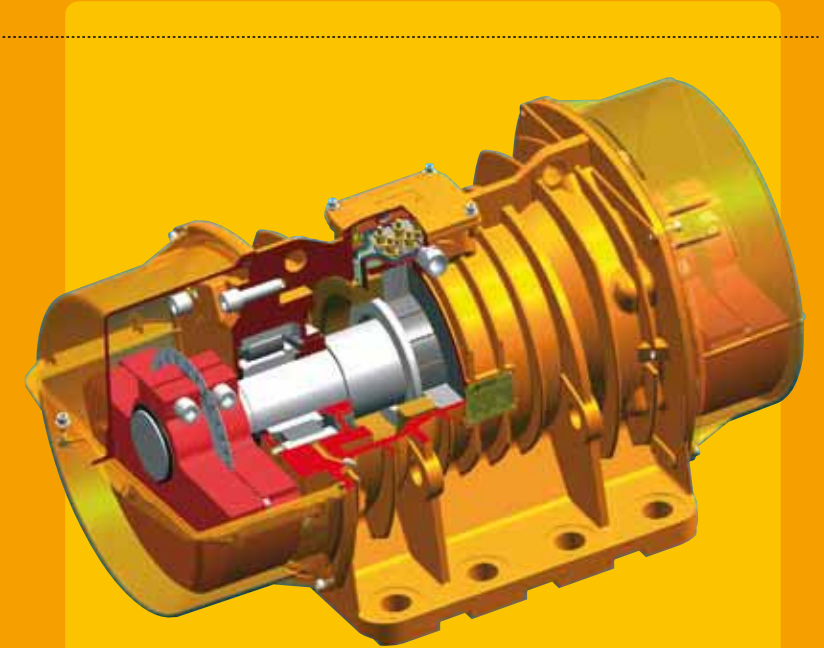
Category: II 2 D

Level of protection: tD A21 IP66

Temperature class: see tab. page 30, 31

EC certificate: LCIE 05 ATEX 6163 X

Areas of use: 21, 22



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 European Directives

Low Voltage 73/23/CE; Electromagnetic Compatibility 89/336/CE, ATEX 94/9/CE

Reference Regulations

EN 60034-1, EN 50081-1, EN 50081-2, EN 50082-1, EN 50082-2, 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 25000 Kgf. (245 KN), with centrifugal force adjustable from 0 to 100%.

Mechanical protection

IP 66 according to IEC 529, EN 60529.

Shock-proof protection

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 "drop by drop" trickle system.

Environmental temperature

From -30°C to +40°C. Versions for higher or lower temperatures are available on request.

Vibrator heat 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 correctly lubricated in the factory and do not require further lubrication if used in normal operating conditions. In heavy duty operating conditions periodical re-lubrication may be applied.

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 vibrating machines. Insulated windings using the "drop by drop" trickle system with class H resin for the larger sizes. The rotor is die cast aluminium.

Casing

In ductile cast iron to have high strength and optimal elasticity. Patented shape that improves heat dispersion and lowers normal working temperature at full load.

Bearing flange

Constructed in ductile cast iron. 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 gradual

ted 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, dismantlable to allow disassembly in a radial direction. On request vibrators can be supplied with 1 or 2 dismantlable caps.

Painting

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

Certifications



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



Mechanical protection IP66 (EN 60529), shock-proof protection IK 08 (EN 50102)



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



Gost-R certificate for all models of vibrators: GOST 16264.1, GOST 16264.0, GOST R 51689.



Comply with the applicable European Union directives

