

Instructions of operation

HV 0,1



Important remark concerning the personal safety of operators



These instructions must be understood by each operator, who is in charge of the assembly, putting into operation, maintenance and repair work of vibration motors.

Our vibration motors have been manufactured in accordance with the latest art. In case of use as provided, they are sure to operate.

Unauthorized changes with the motors and specific execution for the client are excluded from the manufacturer's guarantee for resulting damage.

It is an implied feature of vibration motors that they generate destructive forces. In case of improper use, these destructive forces are apt to cause danger, e.g. the motor or components thereof can drop uncontrolled after getting loose from the fastening means. As a precaution, safety measures must be adopted.

When performing maintenance or repair work, the vibration motor must be disconnected from the power system!

Instructions for mounting vibration motors

General

Vibration motors must be mounted only on equipment with plane surfaces, which are resistant to bending. These surfaces must not be subject to tensions.

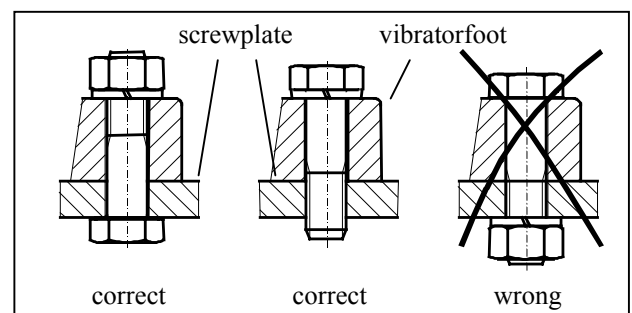
Only screws of grade 8.8 and nuts of grade 6 must be used. The screws must be secured from slackening, e. g. by spring washers or the like.

Posterior tightening of screws and nuts

After the first two hours of operation the screws or nuts must be checked for tight seating. Subsequent inspections shall be performed once daily. In case of necessity the screws or nuts must be retightened.



If the screws have slackened, danger of breakage of the feet of the vibrator is impending.



Torque

The minimum torques is: $M_5 = 8 \text{ Nm}$



Instructions for establishing the power connection



Dangerous Voltage!
Non-compliance can cause death, serious bodily injury or property damage.

General

The power connection must be established only by an electrician. The voltage and frequency must be that, which is indicated on the machine plate. The vibration motor must be connected only to power supply which is in agreement with the VDE regulations.

To secure the motor from overload, it must be connected in series with a terminal circuit breaker, the normal current of which must be set to data, given on the machine plate.

Power connection

The HV 0,1 is fitted with 1m ÖLFLEX 540 P 3x0,75² flexible connection cable.

The connection cable must be laid in a manner which excludes inherent vibrations and any load by traction.

1. The power cable must be fastened firmly shortly behind the cable gland. This first fastening of the cable and the motor should by no means be movable against each other. The cable has to be installed in such a way that it does not start vibrating itself and that it is not subject to any tractional forces.
2. When putting the vibration motor into operation the power input must be examined. Should this be larger than the data on the machine plate, the trouble can be remedied by reducing the centrifugal force.
3. Now and again it must be checked that there are no spots which are subject to friction.

Admitted operating temperature

Outside on the housing not higher than 80°C.
This limit may be surpassed by too high a power input, if the speed which is indicated on the machine plate is not reached, with the result that the winding may burn out. The reason may be too high a centrifugal force for the case

which is existing or a construction of insufficient resistance to bending. The trouble can be set by reducing the centrifugal force or by using a motor which has a stronger electric drive.

Setting the centrifugal force

To construct the HV 0,1 as compact as possible, it has been deliberately designed in such a way that it cannot be

disassembled. Consequently, the force cannot be adjusted.

Maintenance

In case of a breakdown, a repair of this small vibrator is not economical. Spare parts are not available for the HV 0,1.

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