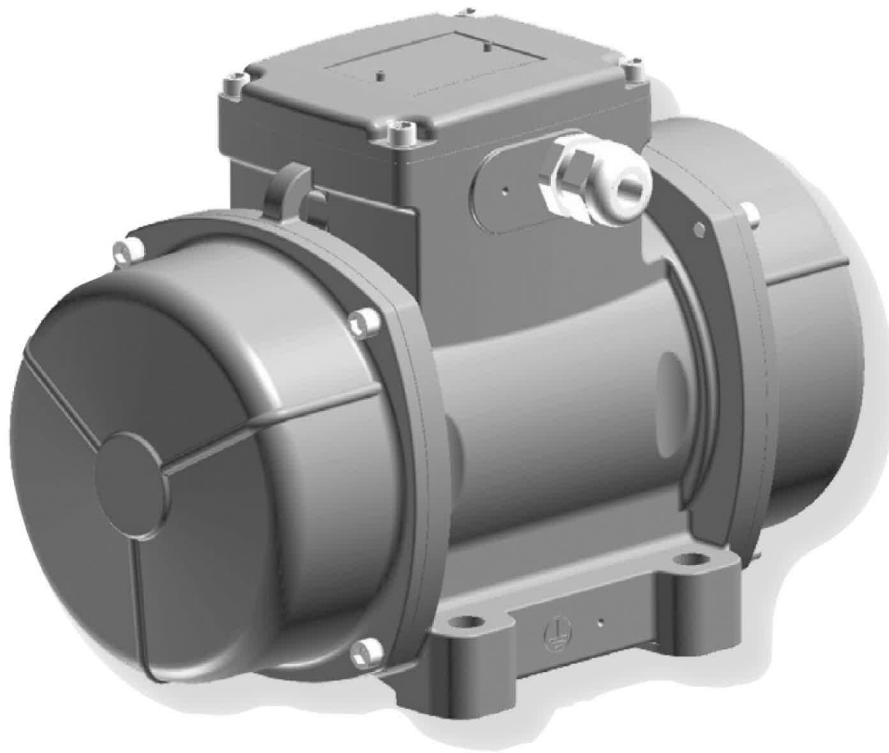




# INDUSTRIAL ELECTRIC VIBRATORS

## INSTRUCTION MANUAL



## MODEL MVSI

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## Installation

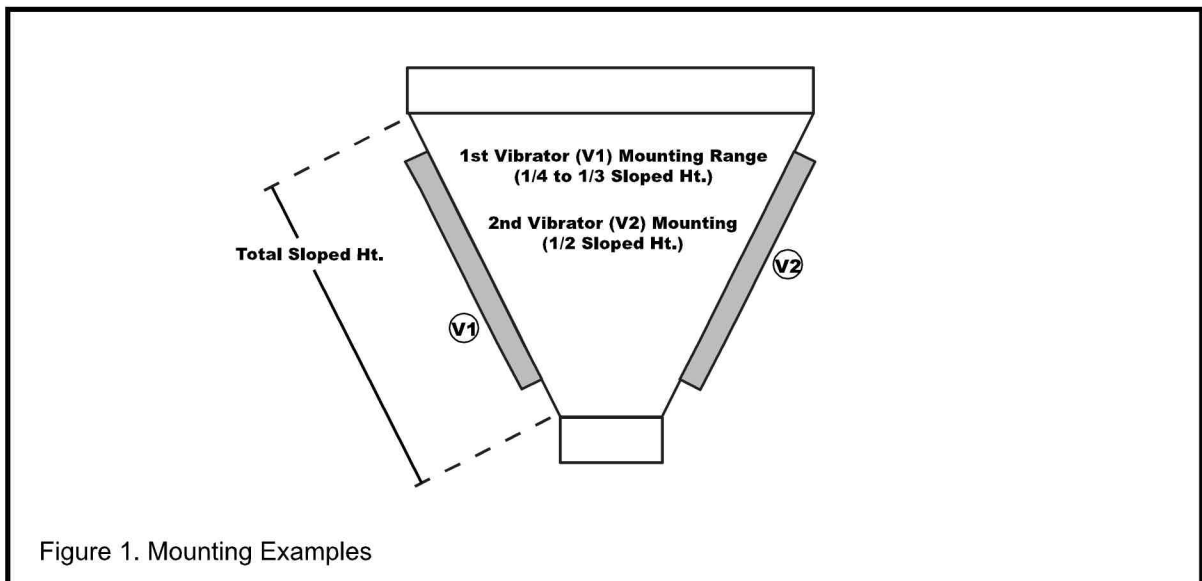
Before installing the vibrator, make sure that you have everything that you will need and that there is no shipping damage. Any product damage should be reported to the delivery service immediately. Standard metric hand tools will be needed. Carefully handle the electric vibrator. Dropping or impacting the electric vibrator may damage the bearings.

**Welding** – Never weld on a bin, hopper or machine with the electric vibrator mounted to it since the welding may damage the vibrator bearings or electrical circuits. When you do weld, especially in an enclosed area, make sure that the area is known to be nonhazardous and that there are no flammable or explosive levels of gases, vapors or dusts.

**Mounting Surface** – The object of vibration on bins and hoppers is to transmit vibration energy through the structure to the material within. The mounting surface must be rigid and strong for this transfer of energy to take place. The mounting surface must also be clean, flat (0.010 in. across mounting feet maximum), free of paint and have a minimum thickness equal to the major diameter of the mounting bolt. Also make sure that the electric vibrator feet are clean and free of debris.

### Mounting Plate

The mounting plate should be at least the overall size of the electric vibrator feet. It should be located on the bin and hopper wall at a height of  $\frac{1}{4}$  to  $\frac{1}{3}$  of the sloped wall height. The mounting plate or bracket should extend at least  $\frac{3}{4}$  the length of the sloped wall. Reference Figure 1. If a second electric vibrator is to be installed to the bin or hopper, install it at a height of  $\frac{1}{2}$  of the sloped wall height and  $180^\circ$  from the first vibrator. Weld the mounting plate or bracket to the structure wall with skip welds that are 3 in. long then skip 2 in. then 3 in. long weld, etc. Do not weld at corners of mounting plate within 1 in. of the corner.



## Introduction

ASGCO® Mfg. industrial electric vibrators have been designed and manufactured in accordance with the most exacting international industrial standards and requirements. ASGCO® Mfg industrial electric vibrators are designed for long life at continuous duty and maximum force output. The electric vibrators are suitable for operation in ambient from -86°F to 104°F (operation outside of this range needs engineering consideration).

ASGCO® Mfg. industrial electric vibrators have been evaluated for installation throughout the world. Standard ratings include CSA (Canadian Standards Association) Approval, the CE (European Directive) Mark, EX Approval for Zone 21 (ATEX II2D tD A21 Ip66), Russian GOST Mark and IECEx Approval (II2D tD A21 IP66). Check the electric vibrator nameplate for the exact ratings and Approvals for the specific Model.

The electric vibrator can be referred to by its Model or Type designation or by its Item number. The vibrator Model or Type designations referred to in this manual are as follows:

MVSI – Continuous duty industrial electric vibrator, single or three phase.

The electric vibrator may optionally be CSA Approved for Class I, Division 2, Group A, B, C and D hazardous locations, or it may be marked as being suitable for Class II, Division 2, Group F and G hazardous locations. Applications and installations requiring Division 1 equipment shall use Italvibras' CDX explosion-proof and dust-ignition-proof industrial electric vibrators.

## General Safety requirements

Read this entire manual before proceeding. Compliance with all company, local and OSHA regulations is essential. Any electrical work must be done in accordance with all applicable local and national codes and must be performed only by qualified, licensed and authorized personnel. Always follow lockout and tag out procedures and requirements and always wear ear protection when in close proximity to operating vibratory equipment. Comprehensive adherence to these documents at a minimum is required – The National Electrical Code NFPA 70, ANSI z244.1 the American National Standard for Personnel Protection

– Lockout/Tag out of Energy Sources – Minimum Safety Requirements, CFR 29 Part 1910 – Control of Hazardous Energy Sources (Lockout/Tag out) Final Rule and CFR 29 Part 1910.15

Occupational Noise Exposure.

## Storage

Storage of the electric vibrator should be in an ambient not less than 41°C with a relative humidity not more than 60%. If the vibrator has been stored for longer than two years, the vibrator should be evaluated by authorized and trained personnel to ensure that the grease is intact, that there is no bearing damage such as brinelling and that the ground insulation is sound and not damaged from condensation.

## Safety Cable

Always install a safety cable metal rope from the electric vibrator to a reliable support should the vibrator become free from its mount and fall more than 6 in. The metal rope should be taut and positioned above the electric vibrator. Reference Figure 2.

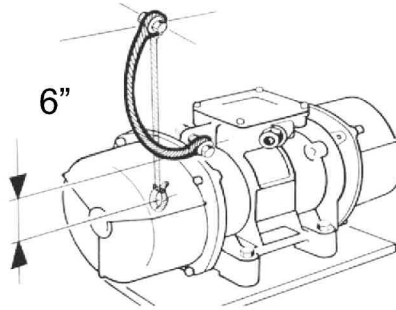


Figure 2. Safety Cable Installation

## Mounting Kits

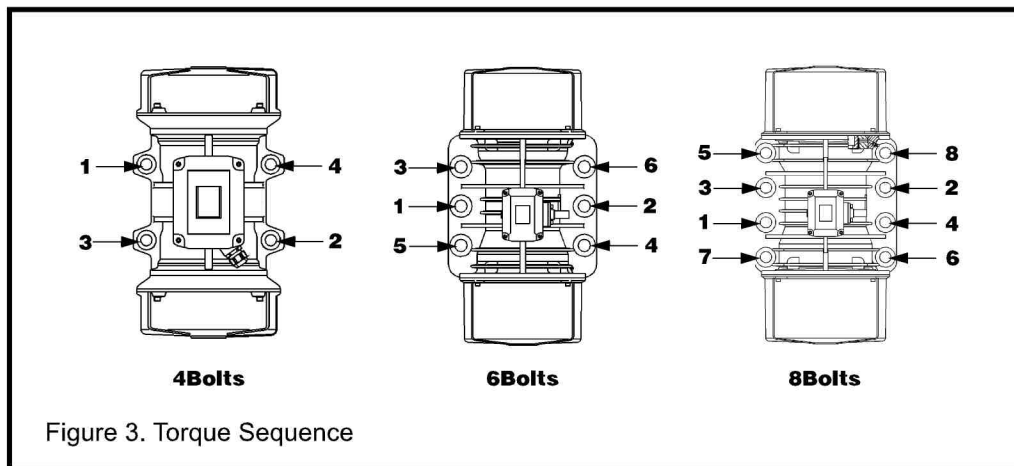
Mounting kits are available from ASGCO® Mfg. for frame sizes 00, 01, 10, 20, 30, 40 and 50. The mounting kits include a channel mount with integral mounting plate, mounting screws and washers and safety cable kit.

## Mounting Hardware & Torque

Always use new bolts, nuts and compression washers. The bolts should be Grade 5 or 8 (equivalent international designation is 8.8 and 12.9, respectively). Grade 5 bolts are suitable for a majority of applications. Do not use split lock washers. Use only compression washers. Table I offers suggested mounting bolt torque values. Always check with the bolt manufacturer for recommended torque values. Torque the mounting bolts in the proper sequence as shown in figure 3 so as not to damage casting. After operating vibrator for 15 minutes, disconnect, lockout/tag out, and torque the mounting bolts a second time. Periodically check the mounting bolt torque thereafter.

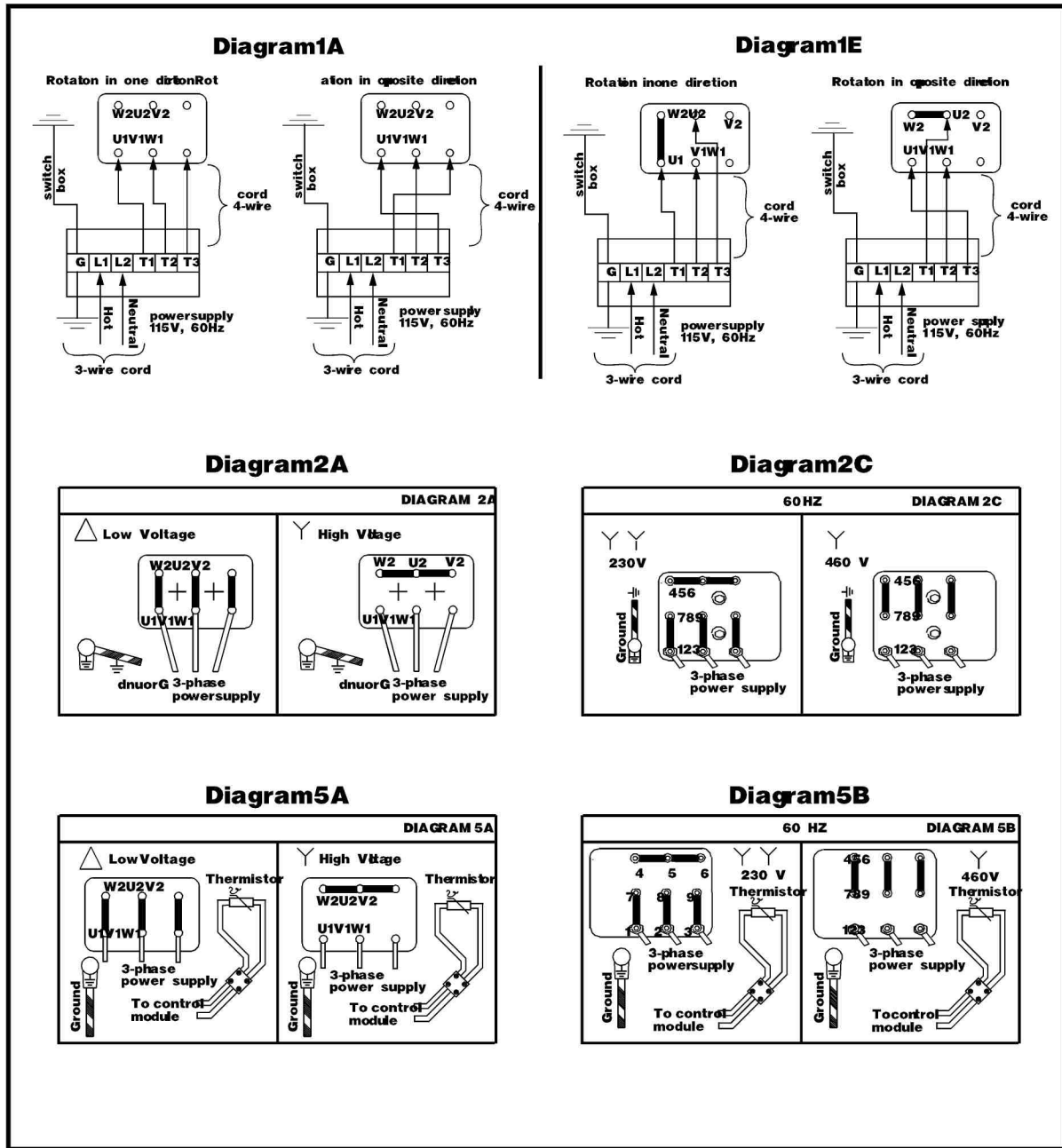
**Table I. Mounting Bolts & Torque Requirements**

| Frame Size         | British        |                    | Metric    |                      |
|--------------------|----------------|--------------------|-----------|----------------------|
|                    | Bolt Size      | Dry Torque Grade 5 | Bolt Size | Dry Torque Grade 8.8 |
| 00, 01             | 5/16 in -18 NC | 16.5               | M8        | 2.3                  |
| 10, 20             | 1/2 in -13 NC  | 58                 | M12       | 8                    |
| 30, 33, 35 ,40, 50 | 5/8 in -11 NC  | 137                | M16       | 19                   |
| 60                 | 3/4 in -10 NC  | 288                | M20       | 38                   |
| 70                 | 7/8 in -9 NC   | 430                | M24       | 71                   |
| 80                 | 1 in-8 NC      | 645                | M24       | 71                   |
| 90, 95             | 1 in-8 NC      | 645                | M27       | 89                   |
| 97                 | 1-3/8 in-8 NC  | 1370               | M36       | 190                  |
| 100, 105, 110      | 1-5/8 in-8 NC  | 2090               | M42       | 290                  |



## Wiring Electric Vibrator

It is mandatory to comply with the National Electrical Code, NFPA 70, and all applicable local codes. Identify which wiring diagram is applicable by referencing the Diagram designation on the nameplate or by referring to Table II. Remove the four screws with washers securing the wiring box cover along with the foam rubber block and set aside. Identify the wiring diagram by referencing the predetermined Diagram noted on the wiring diagram found within the wiring box or by referring to the Diagrams shown in Figure 4.



## Wiring Electric Vibrator Cont.

**Table II. Wiring Diagram Identification**

|                                                                                     |            |
|-------------------------------------------------------------------------------------|------------|
| 00 through 01, single -phase, 3600 rpm                                              | Diagram 1A |
| 10 through 30, single phase, 3600 rpm                                               | Diagram 1E |
| 00 through 60, three -phase, 1200, 1800 & 3600 rpm; MVSI 9 -590; & 575-volt 900 rpm | Diagram 2A |
| 40 through 60, three -phase, 900 rpm except 575V                                    | Diagram 2C |
| 70 through 110, three -phase, 1200, 1800 & 3600 rpm; & 575V 900 rpm                 | Diagram 5A |
| 70 through 110, three -phase, 900 rpm except 575V                                   | Diagram 5B |

Select a cord type that has a voltage rating not less than the power supply voltage, that has a minimum temperature rating of 221°F, and that has an overall jacket diameter within the range specified in Table III. This table also details the cord provided by the factory for reference. We recommend Coleman black portable cord SEOW Seoprene rated 600 V and 221°F. Coleman Cable Inc. can be reached by phone at 847-672-2300 or at [www.colemancable.com](http://www.colemancable.com).

**Table III. Cord Grip Chart**

| Frame Size                    | Size<br>mm x 1.5 | Item No. | Suitable Cord<br>Diameter Range,<br>mm | Cord Provided By Factory |                          |                                |
|-------------------------------|------------------|----------|----------------------------------------|--------------------------|--------------------------|--------------------------------|
|                               |                  |          |                                        | Size                     | Nominal<br>Diameter, in. | Distance Between<br>Flats, in. |
| 00, 01, 10                    | M20              | 511596   | 6.5-12                                 | 16/4                     | 0.42                     | 1/16 to 1/8                    |
| 20-70                         | M25              | 511597   | 9-16                                   | 14/4                     | 0.575                    | 1/16 to 1/8                    |
| 80-95                         | M32              | 511598   | 13-21                                  | 10/4                     | 0.705                    | 1/16 to 1/8                    |
| 97-110                        | M32              | 511598   | 13-21                                  | 8/4                      | 0.807                    | 3/32 to 5/32                   |
| Thermistor<br>Circuit<br>Cord | M20              | 511596   | 6.5-12                                 | 16/3                     | 0.39                     | 1/16 to 1/8                    |

When wiring the electric vibrator, leave enough slack in the cord so that the cord does not become taut during operation causing stress on the connections. It is always best to position the cord down so that should there be any moisture present the moisture would tend to run down instead of into the vibrator wiring box.

Trim the cord by removing the jacket exposing the conductors and ground wire for approx. 6 in. Be careful not to cut the conductor or ground wire insulation. Loosen the compression nut from the cord fitting assembled to the side wall of the wiring box on the electric vibrator. Position the compression nut on the cord and insert the cord through the opening in the side wall of the wiring compartment. Position the jacket of the cord approx. ½ in beyond the inside wall of the wiring box wall and secure the compression nut by threading it to a position equal to the "Distance Between Flats" noted in Table III. Reference figure 5, which pictorially defines "Distance Between Flats"

## Wiring Electric Vibrator Cont.

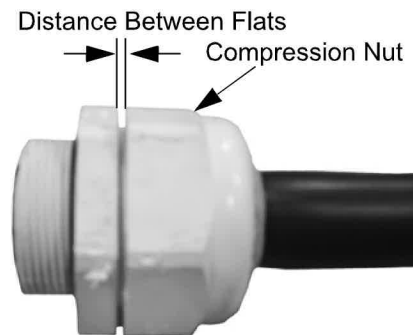


Figure 5. Distance Between Flats

Trim the conductors within the wiring box leaving plenty of slack. Next, strip the conductor insulation for 1/4 in. to 3/8 in. Crimp on closed loop wire connectors. Use only the intended crimping tool as designated by the wire connector manufacturer. The conductors should be neatly arranged on the floor of the wiring box. The wires should not cross over each other. See figure 6.

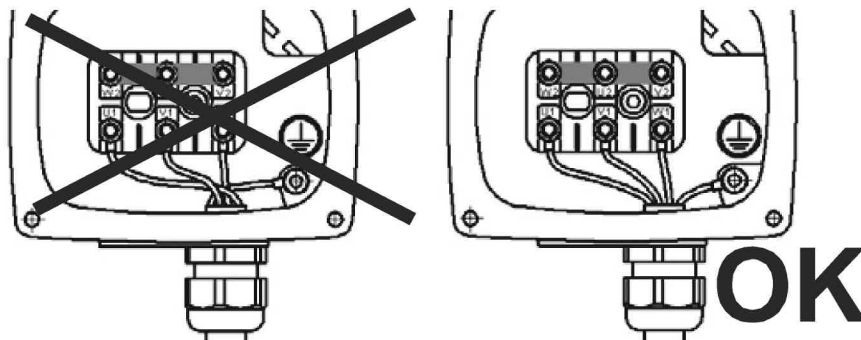


Figure 6. Proper Wiring Arrangement/Positioning

Secure the wire connectors and the shorting bars to the terminal block in the positions shown on the wiring diagram using the hardware provided. It is essential that the hardware be positioned as shown in Figure 7.

Note that the closed loop wire connectors provided on the power supply cord are positioned between the two flat washers. A drop or two of thread sealant such as Loctite is recommended. Do not use permanent thread sealant because the terminal block will be damaged should you wish to remove and replace the power supply cord. The terminal block nuts should not be over tightened since the possibility of damaging the plastic insulating body is high. Reference table VI in the Appendix for torque values. Make the connections hand-tight followed by a 1/4 turn but never put a ratchet on these nuts.

## Wiring Electric Vibrator Cont.

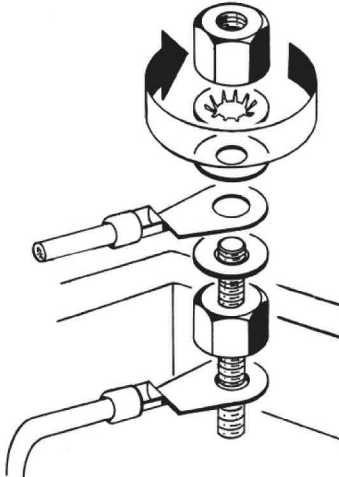


Figure 7. Terminal Block Hardware Installation

For wiring diagrams 1A, 1E, 2A and 2C (Fig.4), reinstall the rubber block over the power supply conductors and install the wiring box cover being careful not to pinch the O-ring. Screw torque is specified in the Appendix. See figure 8.

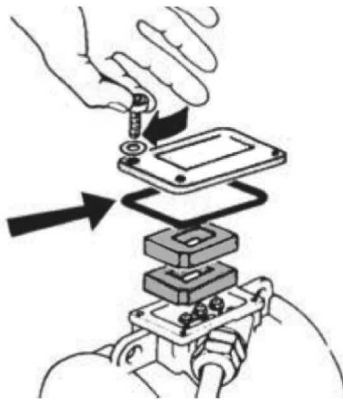


Figure 8. Wiring Block Assembly

For wiring diagrams 5A and 5B, you will note that there is a small 2-pole terminal block in the wiring box. This is the thermistor circuit. Proceed to Thermistor Wiring.

## Thermistor Wiring

Electric vibrators with Diagram 5A and 5B have thermistor circuits installed in the winding. These devices are intended to protect the winding from over-temperature. Connect the thermistors to the motor starter using a thermistor control module such as Siemens 3RN1012-

1CK00. Never apply line voltage to the thermistor circuit. It is a low voltage +/- 5V dc circuit. The thermistor control module is connected to the motor starter control circuit which commonly operates at 120 Vac. Follow the wiring diagram provided with the thermistor control module.

The thermistors are rated 266°F. There are three PTC thermistors wired in series that are installed in the vibrator winding and connected to blue or grey leads. These leads are secured to the small 2-pole terminal block mounted in the wiring box.

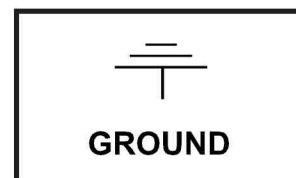
To assemble the thermistor cord, remove the threaded metal plug assembled in the side wall of the wiring box and install a M20 cord grip. Select a cord type that has a voltage rating not less than the power supply voltage, that has a minimum temperature rating of 221°F, and that has an overall jacket diameter within the range specified in Table III. This table also details the cord provided by the factory for reference. We recommend Coleman black portable cord SEOOW Seoprene rated 600 V and 221°F. Coleman Cable Inc. can be reached by phone at 847-672-2300 or at [www.colemancable.com](http://www.colemancable.com).

Trim the cord by removing the jacket exposing the conductors for approx. 6 in. Be careful not to cut the conductor wire insulation. Loosen the compression nut from the cord fitting assembled to the side wall of the wiring box on the electric vibrator. Position the compression nut on the cord and insert the cord through the opening in the side wall of the wiring compartment. Position the jacket of the cord approx. ½ in beyond the inside wall of the wiring box wall and secure the compression nut by threading it to a position equal to the "Distance Between Flats" noted in Table III. Reference figure 5 which pictorially defines "Distance Between Flats".

Trim the conductors within the wiring box leaving plenty of slack. Next, strip the conductor insulation for ¼ in. to 3/8 in. The conductors should be neatly arranged on the floor of the wiring box. The wires should not cross over each other. Secure the wires to the 2-pole terminal block by tightening the compression screws. Reinstall the rubber block over the power supply and thermistor circuit conductors and install the wiring box cover being careful not to pinch the O-ring. Screw torque is specified in the Appendix. Reference figure 8.

## Grounding & Bonding

The electric vibrator must be grounded using the ground wire provided in the cord. The ground wire shall be connected to a closed loop wire connector which is then connected to the ground terminal located within the wiring box (See figure 6). The ground terminal is identified by the international symbol.



It may be necessary to bond the electric vibrator to ground using the external ground screw as shown in figure 9. The external ground terminal is identified by the international symbol. Use a wire size no smaller than the internal ground wire

## Grounding & Bonding Cont.

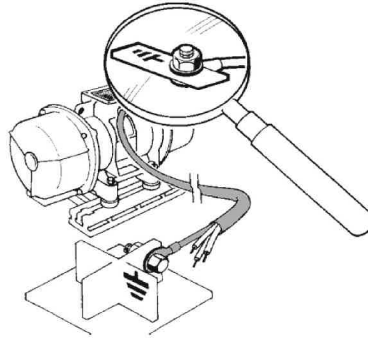


Figure 9. Ground Bonding Screw

### Overload, Short-Circuit & Ground-Fault Protection

In the USA, The National Electrical Code, NFPA 70, and all applicable local codes, govern how to properly size, select and install overload protection (sometimes called heaters) and short-circuit and ground-fault protection (fuses or circuit breakers). Proper selection and installation of these devices is required and essential for not only protection of the electric vibrator and the power supply circuit but also for protection of personnel.

If the overload or short-circuit and ground fault protection operate, have qualified personnel locate and fix the problem before resetting.

When operating two electric vibrators, the vibrators should be controlled with a single motor starter that has overload protection dedicated to each electric vibrator. The overloads shall be electrically interlocked such that should there be a fault with one electric vibrator, both electric vibrators will be de-energized.

### Variable Frequency Inverter

The electric vibrators may be supplied with a variable frequency inverter. Never operate the vibrators above the maximum frequency noted on the nameplate. If operating two vibrators, use one variable frequency inverter along with overload protection dedicated to each electric vibrator. The overloads shall be electrically interlocked such that should there be a fault with one electric vibrator, both electric vibrators will be de-energized.

The nameplate current should never be exceeded throughout the entire frequency range.

## Eccentric Weight Adjustment

The eccentric weights may be adjusted to produce the desired centrifugal force output. It is always best to operate the electric vibrator at the lowest weight setting that produces the desired result. This will result in lower energy expense and extend the bearing life. The factory setting is 50% which would result in 50% of the centrifugal force noted on the nameplate. To adjust the force output, lockout/tag out the electric vibrator. Remove each weight cover and set it and the screws, washers and O-rings aside. The outer adjustable weight clamping screw or the shaft nut may be loosened and then the adjustable weights may be rotated to the desired position. Reference Figure 10.

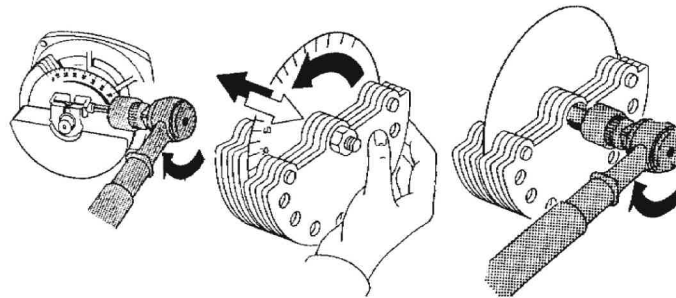


Figure 10. Eccentric Weight Adjust.

The eccentric weights must be adjusted to mirror images of each other at the same setting number as shown in Figure 11.

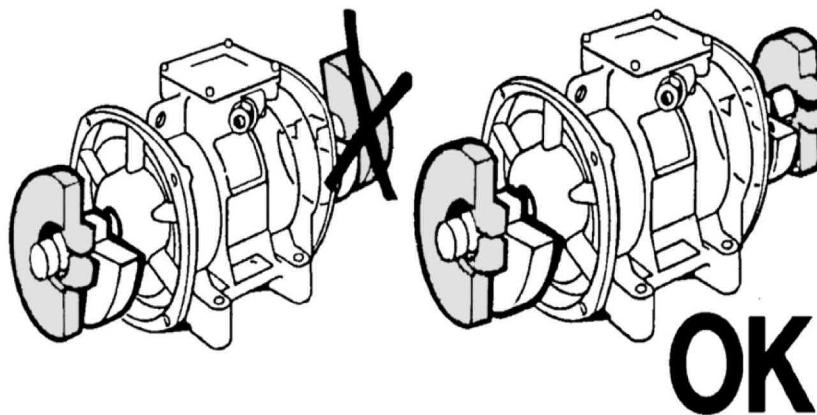


Figure 11. Setting Sets of Eccentric Weights to Mirror Images

Properly torque the clamping screw or shaft nut to secure the weights in position. Torque values are outlined in the Appendix. Reinstall the weight covers making sure not to pinch the O-rings.

## **Eccentric Weight Adjustment**

Check shaft rotation before replacing weight covers. Start vibrator for 1 second, stop and lockout/tag out. Observe direction of rotation. If desired to reverse the direction of rotation, switch two of the three power supply leads in the wiring box or at the motor starter for 3-phase electric vibrators. For 1-phase electric vibrators, refer to the wiring diagram for changing the direction of shaft rotation.

Replace weight covers using screws and washers being careful not to pinch the O-rings. The screw torque is outlined in the Appendix. Never operate the electric vibrator without weight covers in place. They provide a degree of protection for the bearings and a shield for the rotating eccentric weights. Always replace broken weight covers immediately. Do not operate electric vibrator with weight covers removed or with damaged weight covers.

### **Starting Up**

After making sure that the power supply voltage matches the voltage marked on the nameplate, that the mounting bolts are properly secured, that all covers are in place and secured, and that the motor starter is properly installed and adjusted, turn the electric vibrator on. Excessive noise would indicate a problem but slight bearing noise is normal due to the type of bearing used. After a few hours of operation, check each line current and verify that it does not exceed nameplate current. If the line current exceeds the nameplate current, then the mount needs to be stiffened, the vibrator weights need to be reduced or the vibrator needs to be moved to a more rigid location. Never operate the vibrator above nameplate current.

After the first 8 hours of operation, check the line current to make sure that it does not exceed nameplate and check mounting bolt torque. See MOUNTING HARDWARE AND TORQUE.

## Electric Vibrator Lubrication

All electric vibrators are lubricated at the factory. If there are no external grease fittings, then the vibrator construction is lubricated for life. No grease ever need be added to these electric vibrators. If external grease fittings are provided, then it is intended that the bearings be periodically lubricated. The lubrication schedule is outlined in Table IV.

**Table IV. Lubrication Schedule For Each Bearing**

**Lubricate every 2000 hours unless specified otherwise.**

| 00 Frame    |           | 01 Frame    |           | 10 Frame    |           | 20 Frame     |           | 30 Frame     |           | 33 Frame     |           |
|-------------|-----------|-------------|-----------|-------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|
| Model       | Grease, g | Model       | Grease, g | Model       | Grease, g | Model        | Grease, g | Model        | Grease, g | Model        | Grease, g |
| M/SI 36-380 | Life      | M/SI 36-480 | Life      | M/SI 36-660 | Life      | M/SI 36-1050 | Life      | M/SI 36-1680 | Life      | M/SI 36-2900 | Life      |
| M/SI 18-100 | Life      | M/SI 18-180 | Life      | M/SI 18-480 | Life      | M/SI 36-1500 | Life      | M/SI 18-1690 | Life      | M/SI 36-3500 | 9         |
|             |           | M/SI 18-250 | Life      | M/SI 12-110 | Life      | M/SI 18-920  | Life      | M/SI 18-2280 | Life      |              |           |
|             |           |             |           | M/SI 12-300 | Life      | M/SI 18-1310 | Life      | M/SI 12-760  | Life      |              |           |
|             |           |             |           |             |           | M/SI 12-580  | Life      | M/SI 9-590   | Life      |              |           |
|             |           |             |           |             |           | M/SI 9-340   | Life      |              |           |              |           |

| 35 Frame     |           | 40 Frame     |           | 50 Frame     |           | 60 Frame     |           | 70 Frame      |           | 80 Frame      |           |
|--------------|-----------|--------------|-----------|--------------|-----------|--------------|-----------|---------------|-----------|---------------|-----------|
| Model        | Grease, g | Model        | Grease, g | Model        | Grease, g | Model        | Grease, g | Model         | Grease, g | Model         | Grease, g |
| M/SI 36-2530 | 7         | M/SI 18-3190 | 9         | M/SI 36-3280 | 9         | M/SI 18-5380 | 19        | M/SI 36-6860  | 26        | M/SI 18-10900 | 40        |
| M/SI 18-2150 | 7         | M/SI 12-1990 | Life      | M/SI 36-4080 | Life      | M/SI 18-6850 | 19        | M/SI 36-8240  | 26        | M/SI 18-13400 | 40        |
| M/SI 12-1630 | Life      | M/SI 9-1440  | Life      | M/SI 36-4100 | 16        | M/SI 12-3410 | Life      | M/SI 36-11000 | 30*       | M/SI 12-8450  | 30        |
| M/SI 12-1660 | Life      |              |           | M/SI 36-4910 | 16        | M/SI 12-4700 | Life      | M/SI 18-8300  | 26        | M/SI 12-10400 | 40        |
| M/SI 9-910   | Life      |              |           | M/SI 18-3870 | 16        | M/SI 9-2920  | Life      | M/SI 18-9420  | 26        | M/SI 12-11400 | 40        |
| M/SI 9-1160  | Life      |              |           | M/SI 18-4500 | 16        | M/SI 9-3850  | Life      | M/SI 12-6050  | 18        | M/SI 9-6830   | 30        |
|              |           |              |           | M/SI 12-2540 | Life      |              |           | M/SI 12-6600  | 18        | M/SI 9-8400   | 40        |
|              |           |              |           | M/SI 12-3110 | Life      |              |           | M/SI 9-4640   | 18        |               |           |
|              |           |              |           | M/SI 9-2030  | Life      |              |           |               |           |               |           |

\* - Lubricate Every 750 Hours

\*\* - Lubricate Every 200 Hours

**Table IV. Lubrication Schedule For Each Bearing Cont.****Lubricate every 2000 hours unless specified otherwise**

| 90 Frame      |           | 95 Frame      |           | 97 Frame      |           | 100 Frame     |           | 105 Frame     |           | 110 Frame     |           |
|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|---------------|-----------|
| Model         | Grease, g | Model         | Grease, g | Model         | Grease, g | Model         | Grease, g | Model         | Grease, g | Model         | Grease, g |
| MVSI 36-14000 | 20**      | MVSI 36-20000 | 25**      | MVSI 18-19700 | 90        | MVSI 18-25300 | 130       | MVSI 12-31000 | 150       | MVSI 12-45000 | 220       |
| MVSI 18-14500 | 60        | MVSI 18-17600 | 80        | MVSI 12-14500 | 60        | MVSI 18-32900 | 150       | MVSI 12-37000 | 180       | MVSI 12-55000 | TBD       |
| MVSI 12-11700 | 50        | MVSI 12-17600 | 80        | MVSI 12-20100 | 90        | MVSI 12-26500 | 130       | MVSI 12-40000 | 180       | MVSI 9-49000  | 220       |
| MVSI 12-12300 | 50        | MVSI 12-19100 | 80        | MVSI 12-24400 | 90        | MVSI 9-24800  | 130       | MVSI 9-31000  | 150       | MVSI 9-57000  | TBD       |
| MVSI 12-14400 | 60        | MVSI 9-14400  | 80        | MVSI 12-29000 | 130       |               |           | MVSI 9-38000  | 180       |               |           |
| MVSI 12-15400 | 60        |               |           | MVSI 9-14500  | 60        |               |           |               |           |               |           |
| MVSI 9-9310   | 50        |               |           | MVSI 9-21900  | 90        |               |           |               |           |               |           |
| MVSI 9-11700  | 60        |               |           |               |           |               |           |               |           |               |           |

| 120 Frame     |           |
|---------------|-----------|
| Model         | Grease, g |
| MVSI 12-67000 | 260       |
| MVSI 9-671000 | 260       |

**\* - Lubricate Every 750 Hours****\*\* - Lubricate Every 200 Hours**

The lubrication frequency is every 2000 hours of operation unless specified otherwise in the table. There is an exception - 3600 rpm electric vibrators operating continuously or for long periods of time should be lubricated in ½ the time specified using ½ the grease volume specified. For all other vibrators, follow the table except when the operating temperature exceeds 194°F. If the operating temperature exceeds 194°F, reduce the lubrication frequency and lubrication volume by 50% for every 50°F increment above 194°F. If the electric vibrator operating temperature exceeds 212°F, contact ASGCO® at 800-344-4000. The electric vibrator should never operate above 248°F.

When adding grease through the grease fitting, make sure to clean the fitting so as not to introduce dirt into the bearing. Add the specified amount of grease. Experiment with your grease gun to determine how many grams are introduced with each pump. Never over-grease a bearing since this will damage the bearing and cause high operating temperature.

Always use the correct grease. Never mix greases. Use Kluber NBU 15 grease in all MVSI 36 electric vibrators. All other electric vibrators are lubricated with Kluber NBU 8EP grease. Kluber grease may be purchased direct from Kluber Lubrication by calling 800-447-2238.

## Electric Vibrator Maintenance

Every quarter, we recommend a thorough inspection of the electric vibrator. After lockout/tag out, do the following:

- 1.) Inspect the cord for any visible damage or wear. Replace the cord if there are any signs of damage or wear. This holds true for both the power supply cord and the thermistor circuit cord.
- 2.) Remove the wiring box cover and inspect for any foreign matter or liquid.

Vacuum any foreign matter. If wet, remove electric vibrator from service and have the ground insulation tested by a trained, qualified and licensed technician.

- 3.) Before replacing the wiring box cover, make sure the electrical connections are tight (do not over-tighten) and inspect the cover O-ring and rubber compression block. If the O-ring or rubber compression block is damaged or if they have lost their compression set, replace them.

- 4.) Remove each weight cover and inspect for foreign matter. Vacuum if necessary.

Replace O-rings if they are damaged or if they have lost their compression set.

- 5.) Check the mounting bolt torque.

- 6.) Replace any broken parts.

# Appendix

## Electric Vibrator Item Numbers

The table below outlines a list of electric vibrator Model/Type designations next to their respective Item No. The information is sorted by frame size. Please reference the Model/Type designation and Item No. when ordering electric vibrators or their parts.

**Table V. Vibrator Item Numbers By Frame**

| 00 Frame   |          | 01 Frame   |          | 10 Frame   |          | 20 Frame    |          | 30 Frame    |          | 33 Frame    |          |
|------------|----------|------------|----------|------------|----------|-------------|----------|-------------|----------|-------------|----------|
| Model      | Item No. | Model      | Item No. | Model      | Item No. | Model       | Item No. | Model       | Item No. | Model       | Item No. |
| MVS 36-380 | 600311   | MVS 36-480 | 600312   | MVS 36-660 | 600313   | MVS 36-1050 | 600314   | MVS 36-1680 | 600381   | MVS 36-2900 | 600491   |
| MVS 18-100 | 601340   | MVS 18-180 | 601341   | MVS 18-480 | 601367   | MVS 36-1500 | 600366   | MVS 18-1690 | 601408   | MVS 36-3500 | 600504   |
|            |          | MVS 18-250 | 601366   | MVS 12-110 | 602296   | MVS 18-920  | 601372   | MVS 18-2280 | 601513   |             |          |
|            |          |            |          | MVS 12-300 | 602297   | MVS 18-1310 | 601373   | MVS 12-760  | 602314   |             |          |
|            |          |            |          |            |          | MVS 12-580  | 602298   | MVS 9-590   | 602575   |             |          |
|            |          |            |          |            |          | MVS 9-340   | 602568   |             |          |             |          |

| 35 Frame    |          | 40 Frame    |          | 50 Frame    |          | 60 Frame    |          | 70 Frame     |          | 80 Frame     |          |
|-------------|----------|-------------|----------|-------------|----------|-------------|----------|--------------|----------|--------------|----------|
| Model       | Item No. | Model       | Item No. | Model       | Item No. | Model       | Item No. | Model        | Item No. | Model        | Item No. |
| MVS 36-2530 | 600513   | MVS 18-3190 | 601217   | MVS 36-3280 | 600502   | MVS 13-5380 | 601220   | MVS 36-6860  | 600470   | MVS 18-10900 | 601211   |
| MVS 18-2150 | 601524   | MVS 12-1990 | 602380   | MVS 36-4080 | 600503   | MVS 18-6850 | 601268   | MVS 36-8240  | 600471   | MVS 18-13400 | 601447   |
| MVS 12-1630 | 602402   | MVS 9-1440  | 602609   | MVS 36-4100 | 600256   | MVS 12-3410 | 602406   | MVS 36-11000 | 600472   | MVS 12-8450  | 602154   |
| MVS 12-1660 | 602403   |             |          | MVS 36-4910 | 600257   | MVS 12-4700 | 602407   | MVS 18-8300  | 601221   | MVS 12-10400 | 602204   |
| MVS 9-910   | 602615   |             |          | MVS 18-3870 | 601219   | MVS 9-2920  | 602618   | MVS 18-9420  | 601269   | MVS 12-11400 | 602350   |
| MVS 9-1160  | 602616   |             |          | MVS 18-4500 | 601267   | MVS 9-3850  | 602619   | MVS 12-6050  | 602167   | MVS 9-6830   | 602884   |
|             |          |             |          | MVS 12-2540 | 602381   |             |          | MVS 12-6600  | 602230   | MVS 9-8400   | 602515   |
|             |          |             |          | MVS 12-3110 | 602382   |             |          | MVS 9-4640   | 602891   |              |          |
|             |          |             |          | MVS 9-2030  | 602610   |             |          |              |          |              |          |

## Electric Vibrator Item Numbers Cont.

**Table V. Vibrator Item Numbers By Frame Cont.**

| 90 Frame        |          | 95 Frame        |          | 97 Frame        |          | 100 Frame       |          | 105 Frame       |          | 110 Frame       |          |
|-----------------|----------|-----------------|----------|-----------------|----------|-----------------|----------|-----------------|----------|-----------------|----------|
| Model           | Item No. | Model           | Item No. | Model           | Item No. | Model           | Item No. | Model           | Item No. | Model           | Item No. |
| MVS<br>36-14000 | 600276   | MVS<br>36-20000 | 600201   | MVS<br>18-19700 | 601204   | MVS<br>18-25300 | 601205   | MVS<br>12-31000 | 602142   | MVS<br>12-45000 | 602144   |
| MVS<br>18-14500 | 601165   | MVS<br>18-17600 | 601166   | MVS<br>12-14500 | 602136   | MVS<br>18-32900 | 601271   | MVS<br>12-37000 | 602143   | MVS<br>12-55000 | 602273   |
| MVS<br>12-11700 | 602138   | MVS<br>12-17600 | 602092   | MVS<br>12-20100 | 602137   | MVS<br>12-26500 | 602134   | MVS<br>12-40000 | 602244   | MVS<br>9-49000  | 602873   |
| MVS<br>12-12300 | 602351   | MVS<br>12-19100 | 602093   | MVS<br>12-24400 | 602349   | MVS<br>9-24800  | 602863   | MVS<br>9-31000  | 602871   | MVS<br>9-57000  | 602535   |
| MVS<br>12-14400 | 602091   | MVS<br>9-14400  | 602827   | MVS<br>12-29000 | 602227   |                 |          | MVS<br>9-38000  | 602872   |                 |          |
| MVS<br>12-15400 | 602352   |                 |          | MVS<br>9-14500  | 602551   |                 |          |                 |          |                 |          |
| MVS<br>9-9310   | 602862   |                 |          | MVS<br>9-21900  | 602870   |                 |          |                 |          |                 |          |
| MVS<br>9-11700  | 602826   |                 |          |                 |          |                 |          |                 |          |                 |          |

| 120 Frame        |        |
|------------------|--------|
| Model            | Item#  |
| MVSI<br>12-67000 | 602336 |
| MVSI<br>9-671000 | 602589 |

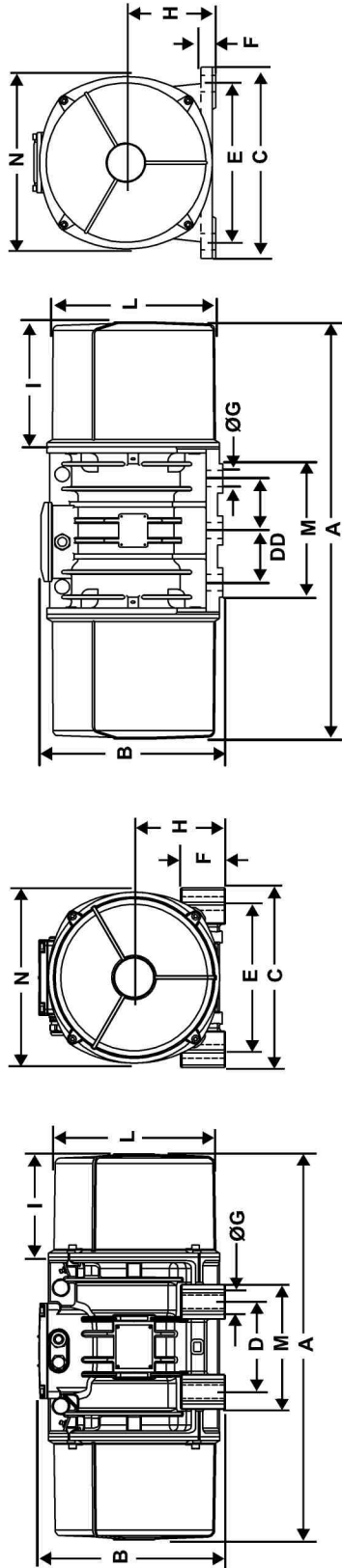
## Electric Vibrator Torque Requirments

**Table V. Vibrator Nut & Screw Torque Requirements**

| Cap Screws | ft/lb (kgm) | Shaft Nuts | ft/lb (kgm) | Terminal Block Nuts | ft/lb (kgm) |
|------------|-------------|------------|-------------|---------------------|-------------|
| M 6        | 7 (1)       | M13x1      | 22 (3)      | M4                  | 0.87 (0.12) |
| M 8        | 16.5 (2.3)  | M15x1      | 36 (5)      | M5                  | 1.45 (0.20) |
| M 10       | 35 (4.8)    | M20x1      | 72 (10)     | M6                  | 2.17 (0.30) |
| M 12       | 58 (8)      | M25x1.5    | 123 (17)    | M8                  | 4.70 (0.65) |
| M 14       | 95 (13)     | M30x1.5    | 246 (34)    | M10                 | 9.80 (1.35) |
| M 16       | 137 (19)    | M45x1.5    | 360 (50)    |                     |             |
| M 18       | 195 (27)    |            |             |                     |             |
| M 20       | 275 (38)    |            |             |                     |             |

## Electric Vibrator Dimensions (in/mm)

Table VII. Vibrator Dimensions By Frame



| Frame Size | A            | B           | C           | D                 | E           | F          | Foot Holes |     | H           | I           | L           | M           | N           |
|------------|--------------|-------------|-------------|-------------------|-------------|------------|------------|-----|-------------|-------------|-------------|-------------|-------------|
|            |              |             |             |                   |             |            | ØG         | No. |             |             |             |             |             |
| 00         | 8.31 (211)   | 6.02 (153)  | 4.92 (125)  | 2.44-2.84 (62-72) | 4.17 (106)  | 0.94 (24)  | 0.35 (9)   | 4   | 2.40 (61)   | 1.83 (47)   | 4.06 (103)  | 3.94 (100)  | 4.61 (117)  |
| 01         | 9.25 (235)   | 6.02 (153)  | 4.92 (125)  | 2.44-2.84 (62-72) | 4.17 (106)  | 0.94 (24)  | 0.35 (9)   | 4   | 2.40 (61)   | 2.28 (58)   | 4.06 (103)  | 3.94 (100)  | 4.61 (117)  |
| 10         | 11.83 (301)  | 7.05 (179)  | 5.98 (152)  | 3.54 (90)         | 4.92 (125)  | 1.10 (28)  | 0.51 (13)  | 4   | 2.87 (73)   | 3.03 (77)   | 5.00 (127)  | 5.04 (128)  | 5.55 (141)  |
| 20         | 13.54 (344)  | 7.99 (203)  | 6.57 (167)  | 4.13 (105)        | 5.51 (140)  | 1.18 (30)  | 0.51 (13)  | 4   | 3.25 (83)   | 3.68 (94)   | 5.71 (145)  | 5.51 (140)  | 6.30 (160)  |
| 30         | 15.00 (381)  | 8.27 (210)  | 8.07 (205)  | 4.72 (120)        | 6.69 (170)  | 1.77 (45)  | 0.67 (17)  | 4   | 3.60 (91)   | 3.46 (88)   | 6.61 (168)  | 6.30 (160)  | 6.93 (176)  |
| 33         | 14.21 (361)  | 8.39 (213)  | 8.46 (215)  | 3.94 (100)        | 7.09 (180)  | 1.54 (39)  | 0.67 (17)  | 4   | 3.60 (91)   | 2.56 (65)   | 6.30 (160)  | 5.51 (140)  | 6.89 (175)  |
| 35         | 17.13 (435)  | 9.17 (233)  | 8.07 (205)  | 4.72 (120)        | 6.69 (170)  | 2.13 (54)  | 0.67 (17)  | 4   | 4.11 (104)  | 4.63 (118)  | 7.36 (187)  | 6.38 (162)  | 7.99 (203)  |
| 40         | 19.69 (500)  | 9.75 (248)  | 9.06 (230)  | 5.51 (140)        | 7.48 (190)  | 2.13 (54)  | 0.67 (17)  | 4   | 4.57 (116)  | 5.28 (134)  | 8.27 (210)  | 7.09 (180)  | 8.86 (225)  |
| 50         | 22.36 (568)  | 9.69 (246)  | 9.06 (230)  | 5.51 (140)        | 7.48 (190)  | 2.13 (54)  | 0.67 (17)  | 4   | 4.57 (116)  | 6.61 (168)  | 8.27 (210)  | 7.09 (180)  | 8.86 (225)  |
| 60         | 24.29 (617)  | 10.94 (278) | 10.83 (275) | 6.10 (155)        | 8.86 (225)  | 2.76 (70)  | 0.87 (22)  | 4   | 5.31 (135)  | 6.97 (177)  | 9.37 (238)  | 8.07 (205)  | 9.96 (253)  |
| 70         | 26.22 (666)  | 12.64 (321) | 12.20 (310) | 6.10 (155)        | 10.04 (255) | 3.03 (77)  | 0.93 (24)  | 4   | 6.18 (157)  | 7.01 (178)  | 10.91 (277) | 8.46 (215)  | 11.61 (296) |
| 80         | 28.74 (730)  | 13.66 (347) | 13.39 (340) | 7.09 (180)        | 11.02 (280) | 3.15 (80)  | 1.02 (26)  | 4   | 6.50 (165)  | 7.87 (200)  | 12.01 (305) | 9.45 (240)  | 12.60 (320) |
| 90         | 29.13 (740)  | 14.57 (370) | 15.35 (390) | 7.87 (200)        | 12.60 (320) | 3.78 (96)  | 1.10 (28)  | 4   | 7.56 (192)  | 9.45 (240)  | 12.99 (330) | 10.63 (270) | 13.78 (350) |
| 95         | 34.25 (870)  | 15.55 (395) | 15.43 (392) | 7.87 (200)        | 12.60 (320) | 4.13 (105) | 1.10 (28)  | 4   | 7.56 (192)  | 10.04 (255) | 13.98 (355) | 10.63 (270) | 14.76 (375) |
| 97         | 39.45 (1002) | 17.17 (436) | 18.11 (460) | 4.92 (125)        | 14.96 (380) | 1.38 (35)  | 1.50 (38)  | 6   | 8.46 (215)  | 11.81 (300) | 16.30 (414) | 12.60 (320) | 17.52 (445) |
| 100        | 42.13 (1070) | 17.87 (454) | 20.87 (530) | 5.51 (140)        | 17.32 (440) | 1.50 (38)  | 1.73 (44)  | 6   | 9.06 (230)  | 11.02 (280) | 17.64 (448) | 14.57 (370) | 18.39 (467) |
| 105        | 44.09 (1120) | 20.71 (526) | 22.44 (570) | 5.51 (140)        | 18.90 (480) | 1.61 (41)  | 1.77 (45)  | 8** | 10.55 (265) | 11.02 (280) | 19.49 (495) | 20.08 (510) | 20.31 (516) |
| 110        | 45.28 (1150) | 23.90 (607) | 24.02 (610) | 5.51 (140)        | 20.47 (520) | 1.50 (38)  | 1.77 (45)  | 8** | 11.69 (297) | 11.71 (297) | 21.34 (542) | 21.85 (555) | 22.91 (582) |

\*Dimensions given are maximum for each frame size and will vary depending on the rpm of the vibrator.

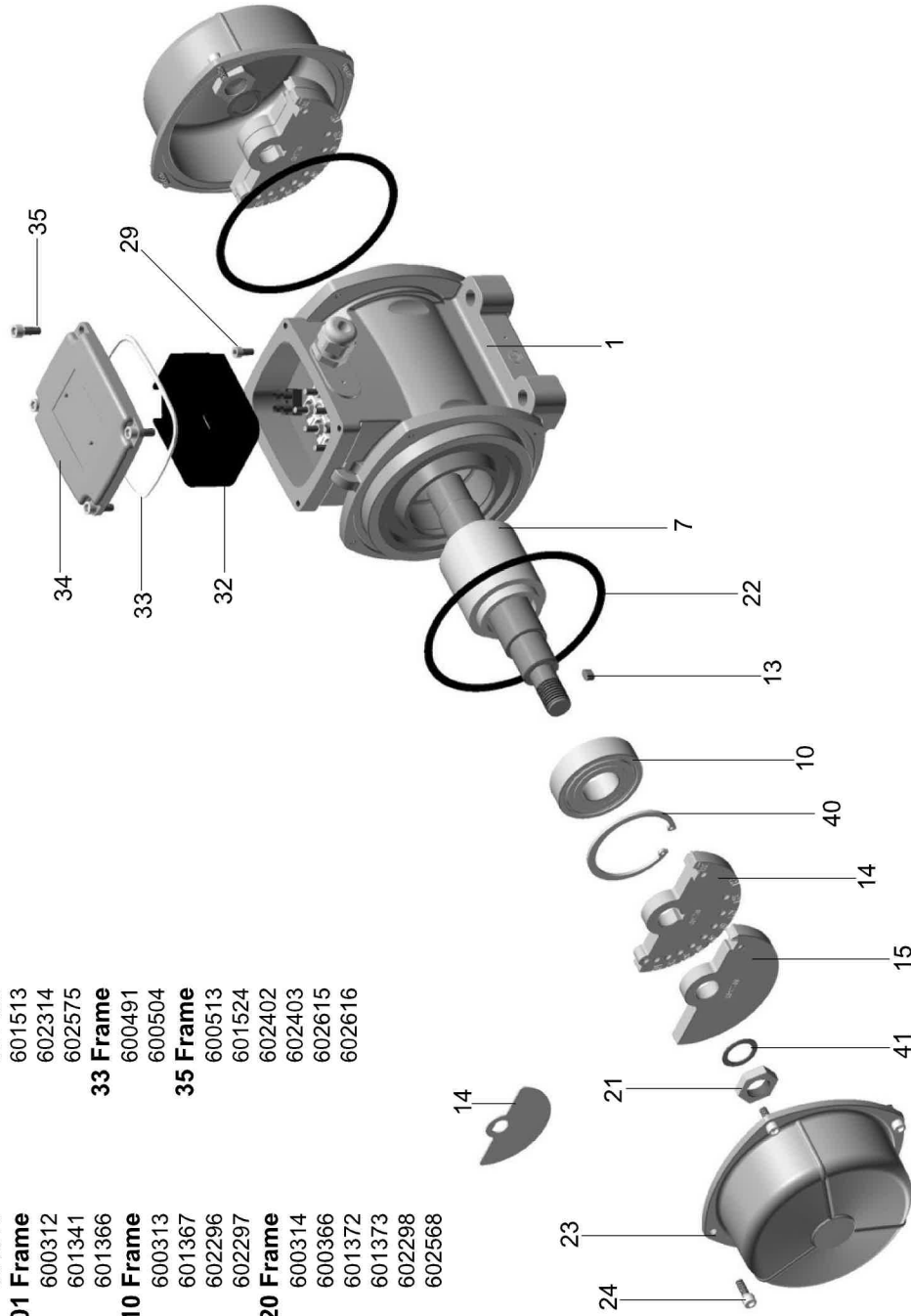
\*\*105 and 110 frame vibrators have 8 mounting holes (not pictured).

**Part# --Description**

|                                |          |
|--------------------------------|----------|
| 1 --CASE                       | 30 Frame |
| 2 --STATOR                     | 600381   |
| 3 --BEARING FLANGE             | 601408   |
| 4 --SCREW                      | 601513   |
| 5 --SCHNORR WASHER             | 602314   |
| 6 --O-RING                     | 602575   |
| 7 --SHAFT                      | 33 Frame |
| 8 --FLANGE ADAPTER             | 600491   |
| 9 --SHAFT WASHER               | 600504   |
| 10 --BEARING                   | 35 Frame |
| 11 --BEARING COVER             | 600513   |
| 12 --SHAFT SEAL                | 601524   |
| 13 --SHIFT KEY                 | 602402   |
| 14 --FIXED WEIGHT              | 602403   |
| 15 --ADJUSTABLE WEIGHT         | 602615   |
| 16 --SCREW                     | 602616   |
| 17 --SCHNORR WASHER            | 00 Frame |
| 18 --BRASS WASHER              | 600311   |
| 19 --WEIGHT ADJUSTMENT DISC    | 601340   |
| 20 --EXTERNAL SNAP RING        | 01 Frame |
| 21 --SHAFT NUT                 | 600312   |
| 22 --O-RING                    | 601341   |
| 23 --WEIGHT COVER              | 601366   |
| 24 --SCREW                     | 10 Frame |
| 25 --SCHNORR WASHER            | 600313   |
| 26 --TERMINAL BLOCK            | 601367   |
| 27 --SCREW                     | 602296   |
| 28 --SCHNORR WASHER            | 602297   |
| 29 --GROUND SCREW              | 20 Frame |
| 30 --SCHNORR WASHER            | 600314   |
| 31 --GROUND LABEL              | 600366   |
| 32 --RUBBER COMPRESSION BLOCK  | 601372   |
| 33 --O-RING                    | 601373   |
| 34 --WIRING BOX COVER          | 602298   |
| 35 --SCREW                     | 602568   |
| 36 --SCHNORR WASHER            | 14       |
| 37 --CORD GRIP                 | 21       |
| 38 --GREASE FITTING/PLUG       | 23       |
| 39 --LEAD PROTECTOR            | 24       |
| 40 --INTERNAL SNAP RING        | 10       |
| 41 --SCHNORR WASHER            | 40       |
| 42 --SHAFT SEAL                | 14       |
| 45 --FAN                       | 15       |
| 46 --BEARING COVER             | 41       |
| 47 --SCREW                     | 23       |
| 48 --SCHNORR WASHER            | 24       |
| 49 --THERMISTOR TERMINAL BLOCK | 21       |
| 50 --SCREW                     | 23       |
| 51 --ADAPTER SCREW             | 24       |
| 52 --PLUG                      | 10       |
| 53 --SCREW                     | 40       |
| 54 --SCHNORR WASHER            | 14       |
| 55 --SCHNORR WASHER            | 15       |
| 59 --SPACER                    | 41       |
| 60 --SCREW                     | 23       |
| 61 --WIRING BOX COVER          | 24       |
| 64 --SCREW                     | 10       |
| 66 --GREASE SEAL RING          | 40       |
| 67 --SPLIT WEIGHT COVER        | 14       |
| 71 --SHAFT SEAL                | 15       |
| 75 --WEIGHT SPACER             | 41       |

**Item Numbers;**

|          |        |
|----------|--------|
| 00 Frame | 600311 |
| 01 Frame | 601340 |
| 10 Frame | 600312 |
| 20 Frame | 601341 |
| 30 Frame | 601366 |
| 33 Frame | 600313 |
| 35 Frame | 601367 |
|          | 602296 |
|          | 602297 |
|          | 600314 |
|          | 600366 |
|          | 601372 |
|          | 601373 |
|          | 602298 |
|          | 602568 |



**Part# --Description**

|    |                            |
|----|----------------------------|
| 1  | -CASE                      |
| 2  | -STATOR                    |
| 3  | -BEARING FLANGE            |
| 4  | -SCREW                     |
| 5  | -SCHNORR WASHER            |
| 6  | -O-RING                    |
| 7  | -SHAFT                     |
| 8  | -FLANGE ADAPTER            |
| 9  | -SHAFT WASHER              |
| 10 | -BEARING                   |
| 11 | -BEARING COVER             |
| 12 | -SHAFT SEAL                |
| 13 | -SHIFT KEY                 |
| 14 | -FIXED WEIGHT              |
| 15 | -ADJUSTABLE WEIGHT         |
| 16 | -SCREW                     |
| 17 | -SCHNORR WASHER            |
| 18 | -BRASS WASHER              |
| 19 | -WEIGHT ADJUSTMENT DISC    |
| 20 | -EXTERNAL SNAP RING        |
| 21 | -SHAFT NUT                 |
| 22 | -O-RING                    |
| 23 | -WEIGHT COVER              |
| 24 | -SCREW                     |
| 25 | -SCHNORR WASHER            |
| 26 | -TERMINAL BLOCK            |
| 27 | -SCREW                     |
| 28 | -SCHNORR WASHER            |
| 29 | -GROUND SCREW              |
| 30 | -SCHNORR WASHER            |
| 31 | -GROUND LABEL              |
| 32 | -RUBBER COMPRESSION BLOCK  |
| 33 | -O-RING                    |
| 34 | -WIRING BOX COVER          |
| 35 | -SCREW                     |
| 36 | -SCHNORR WASHER            |
| 37 | -CORD GRIP                 |
| 38 | -GREASE FITTING/PLUG       |
| 39 | -LEAD PROTECTOR            |
| 40 | -INTERNAL SNAP RING        |
| 41 | -SCHNORR WASHER            |
| 42 | -SHAFT SEAL                |
| 45 | -FAN                       |
| 46 | -BEARING COVER             |
| 47 | -SCREW                     |
| 48 | -SCHNORR WASHER            |
| 49 | -THERMISTOR TERMINAL BLOCK |
| 50 | -SCREW                     |
| 51 | -ADAPTER SCREW             |
| 52 | -PLUG                      |
| 53 | -SCREW                     |
| 54 | -SCHNORR WASHER            |
| 55 | -SCHNORR WASHER            |
| 59 | -SPACER                    |
| 60 | -SCREW                     |
| 61 | -WIRING BOX COVER          |
| 64 | -SCREW                     |
| 66 | -GREASE SEAL RING          |
| 67 | -SPLIT WEIGHT COVER        |
| 71 | -SHAFT SEAL                |
| 75 | -WEIGHT SPACER             |

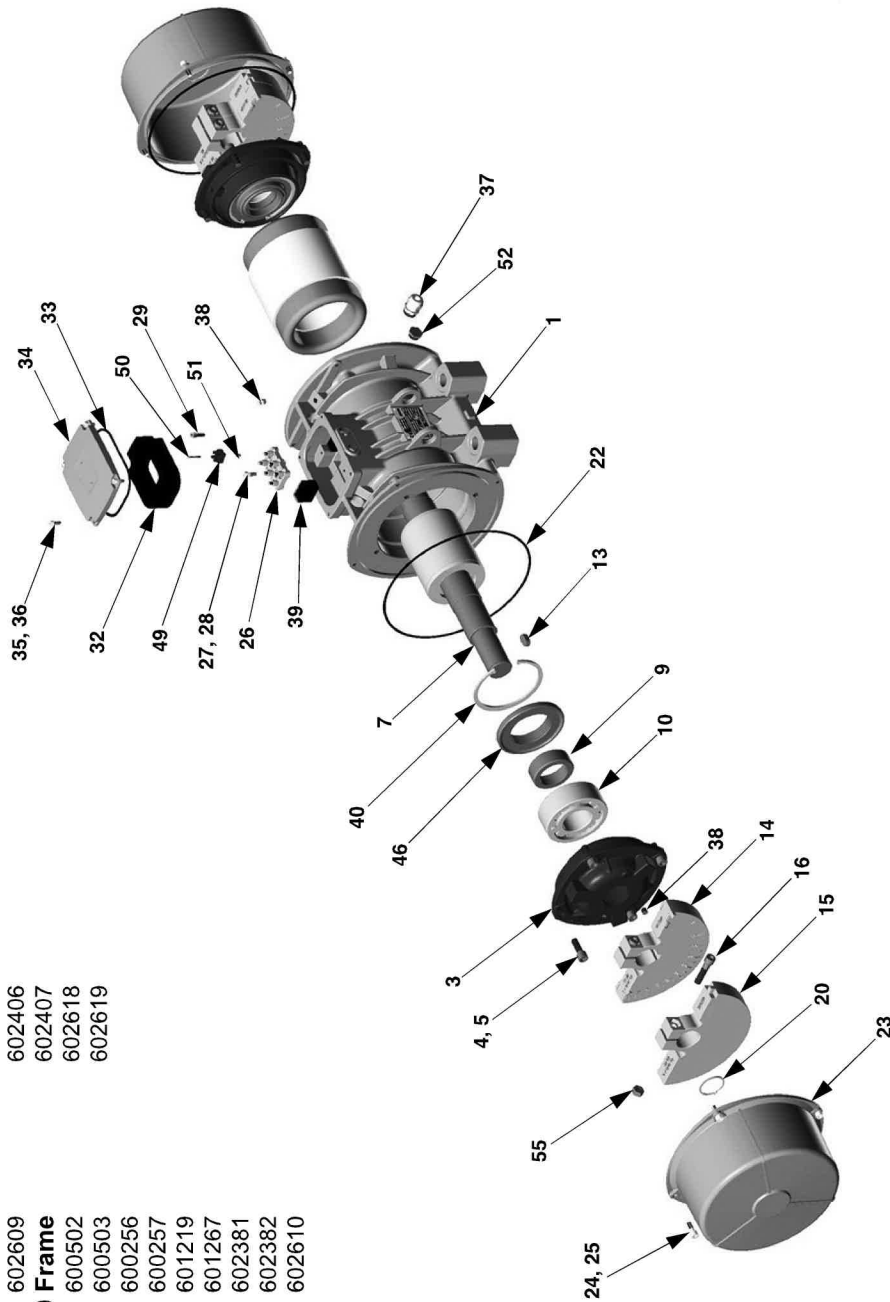
**Item Numbers;**

**40 Frame**

|        |
|--------|
| 601217 |
| 602380 |
| 602609 |
| 602406 |
| 602407 |
| 602618 |
| 602619 |

**60 Frame**

|        |
|--------|
| 601220 |
| 601268 |
| 602406 |
| 602407 |
| 602618 |
| 602619 |



**Part# -- Description**

|                                |           |
|--------------------------------|-----------|
| 1 - CASE                       | 100 Frame |
| 2 - STATOR                     | 601205    |
| 3 - BEARING FLANGE             | 601271    |
| 4 - SCREW                      | 602134    |
| 5 - SCHNORR WASHER             | 602863    |
| 6 - O-RING                     | 602142    |
| 7 - SHAFT                      | 602143    |
| 8 - FLANGE ADAPTER             | 602244    |
| 9 - SHAFT WASHER               | 602871    |
| 10 - BEARING                   | 602872    |
| 11 - BEARING COVER             | 602144    |
| 12 - SHAFT SEAL                | 602273    |
| 13 - SHFT KEY                  | 602873    |
| 14 - FIXED WEIGHT              | 602535    |
| 15 - ADJUSTABLE WEIGHT         | 602336    |
| 16 - SCREW                     | 602589    |
| 17 - SCHNORR WASHER            | 90 Frame  |
| 18 - BRASS WASHER              | 600276    |
| 19 - WEIGHT ADJUSTMENT DISC    | 601165    |
| 20 - EXTERNAL SNAP RING        | 602138    |
| 21 - SHAFT NUT                 | 602351    |
| 22 - O-RING                    | 602091    |
| 23 - WEIGHT COVER              | 602352    |
| 24 - SCREW                     | 602862    |
| 25 - SCHNORR WASHER            | 602826    |
| 26 - TERMINAL BLOCK            | 95 Frame  |
| 27 - SCREW                     | 600201    |
| 28 - SCHNORR WASHER            | 601166    |
| 29 - GROUND SCREW              | 602092    |
| 30 - SCHNORR WASHER            | 602093    |
| 31 - GROUND LABEL              | 602827    |
| 32 - RUBBER COMPRESSION BLOCK  | 97 Frame  |
| 33 - O-RING                    | 601204    |
| 34 - WIRING BOX COVER          | 602136    |
| 35 - SCREW                     | 602137    |
| 36 - SCHNORR WASHER            | 602349    |
| 37 - CORD GRIP                 | 602227    |
| 38 - GREASE FITTING/PLUG       | 602551    |
| 39 - LEAD PROTECTOR            | 602870    |
| 40 - INTERNAL SNAP RING        | 70 Frame  |
| 41 - SCHNORR WASHER            | 600470    |
| 42 - SHAFT SEAL                | 600471    |
| 43 - FAN                       | 600472    |
| 44 - BEARING COVER             | 601221    |
| 45 - SCREW                     | 601269    |
| 46 - SCHNORR WASHER            | 602167    |
| 47 - THERMISTOR TERMINAL BLOCK | 602230    |
| 48 - SCREW                     | 602891    |
| 49 - ADAPTER SCREW             | 80 Frame  |
| 50 - PLUG                      | 601211    |
| 51 - SCHNORR WASHER            | 601447    |
| 52 - SCREW                     | 602154    |
| 53 - SCHNORR WASHER            | 602204    |
| 54 - SCHNORR WASHER            | 602350    |
| 55 - SPACER                    | 602884    |
| 56 - WIRING BOX COVER          | 602515    |
| 57 - SCREW                     |           |
| 58 - GREASE SEAL RING          |           |
| 59 - SPLIT WEIGHT COVER        |           |
| 60 - SHAFT SEAL                |           |
| 61 - WEIGHT SPACER             |           |

**Item Numbers;**

**70 Frame**

600470  
600471  
600472  
601221  
601269  
602167  
602230  
602891

**90 Frame**

600276  
601165  
602138  
602351  
602091  
602352  
602862  
602826

**100 Frame**

601205  
601271  
602134  
602863  
602142  
602143  
602244  
602871  
602872  
602144  
602273  
602873  
602535  
602336  
602589

**105 Frame**

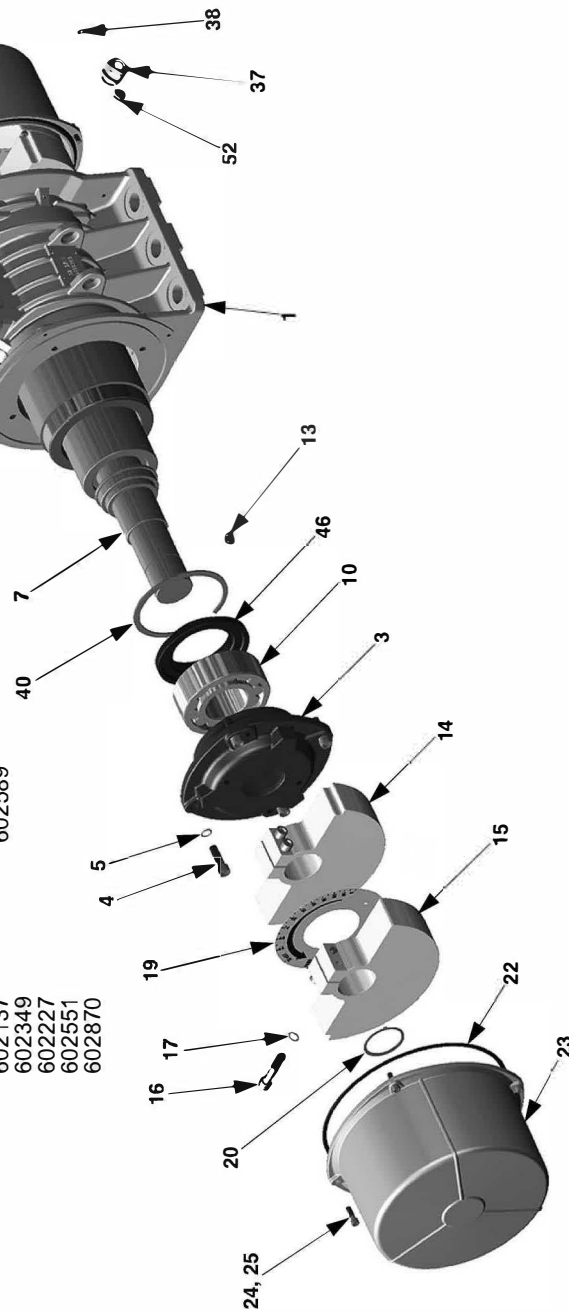
602142  
602143  
602244  
602871  
602872  
602144  
602273  
602873  
602535  
602336  
602589

**110 Frame**

602142  
602143  
602244  
602871  
602872  
602144  
602273  
602873  
602535  
602336  
602589

**120 Frame**

602142  
602143  
602244  
602871  
602872  
602144  
602273  
602873  
602535  
602336  
602589



## Order Information

When ordering, please specify the following:

Vibrator Model \_\_\_\_\_

Series \_\_\_\_\_

Serial Number \_\_\_\_\_

Voltage, frequency & number of phases \_\_\_\_\_

- |                                 |                                    |
|---------------------------------|------------------------------------|
| 1 CASE _____                    | 32 RUBBER COMPRESSION BLOCK _____  |
| 2 STATOR _____                  | 33 O-RING _____                    |
| 3 BEARING FLANGE _____          | 34 WIRING BOX COVER _____          |
| 4 SCREW _____                   | 35 SCREW _____                     |
| 5 SCHNORR WASHER _____          | 36 SCHNORR WASHER _____            |
| 6 O-RING _____                  | 37 CORD GRIP _____                 |
| 7 SHAFT _____                   | 38 GREASE FITTING/PLUG _____       |
| 8 FLANGE ADAPTER _____          | 39 LEAD PROTECTOR _____            |
| 9 SHAFT WASHER _____            | 40 INTERNAL SNAP RING _____        |
| 10 BEARING _____                | 41 SCHNORR WASHER _____            |
| 11 BEARING COVER _____          | 42 SHAFT SEAL _____                |
| 12 SHAFT SEAL _____             | 45 FAN _____                       |
| 13 SHFT KEY _____               | 46 BEARING COVER _____             |
| 14 FIXED WEIGHT _____           | 47 SCREW _____                     |
| 15 ADJUSTABLE WEIGHT _____      | 48 SCHNORR WASHER _____            |
| 16 SCREW _____                  | 49 THERMISTOR TERMINAL BLOCK _____ |
| 17 SCHNORR WASHER _____         | 50 SCREW _____                     |
| 18 BRASS WASHER _____           | 51 ADAPTER SCREW _____             |
| 19 WEIGHT ADJUSTMENT DISC _____ | 52 PLUG _____                      |
| 20 EXTERNAL SNAP RING _____     | 53 SCREW _____                     |
| 21 SHAFT NUT _____              | 54 SCHNORR WASHER _____            |
| 22 O-RING _____                 | 55 SCHNORR WASHER _____            |
| 23 WEIGHT COVER _____           | 59 SPACER _____                    |
| 24 SCREW _____                  | 60 SCREW _____                     |
| 25 SCHNORR WASHER _____         | 61 WIRING BOX COVER _____          |
| 26 TERMINAL BLOCK _____         | 64 SCREW _____                     |
| 27 SCREW _____                  | 66 GREASE SEAL RING _____          |
| 28 SCHNORR WASHER _____         | 67 SPLIT WEIGHT COVER _____        |
| 29 GROUND SCREW _____           | 71 SHAFT SEAL _____                |
| 30 SCHNORR WASHER _____         | 75 WEIGHT SPACER _____             |
| 31 GROUND LABEL _____           |                                    |

**Fax, Phone or E-Mail To**



ASGCO® "Complete Conveyor  
Solutions" 730 Bangor Road  
Nazareth, PA 18064  
Phone: 610-821-0216  
Toll Free: 1-800-344-4000  
Fax: 610-778-8991  
info@asgco.com