



# Amplitude Calculations

Select vibrator driver size by using these calculations for amplitude

Amplitude equation:

$$A = \frac{2 \times Mt}{Mv}$$

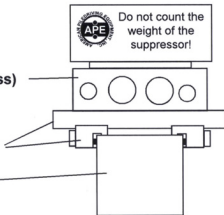
Mt	= Eccentric moment in	m.kg
Mv	= Total vibrating weight	kg
A	= Amplitude in	mm

Vibrating weight: Mv

The vibrating weight is the sum of all the weights of the vibrating mass.

$$Mv = B + C + D$$

- B: Dynamic weight (vibrating mass) of vibratory gearbox
- C: Clamping device including all plates or beams and clamps
- D: Casing weight



Note: Calculate casing weight using the following formula:

OD (outside diameter) in m x 3.14 x wall thickness in m x casing length in m x density 7.8

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