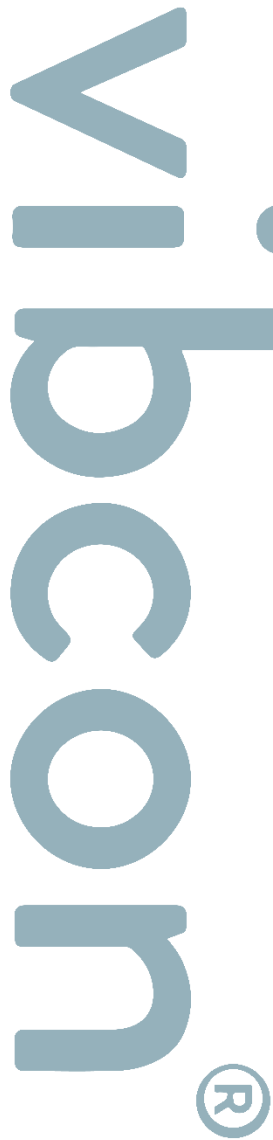




MINIVIB

B Metallic Spring Steel Isolators

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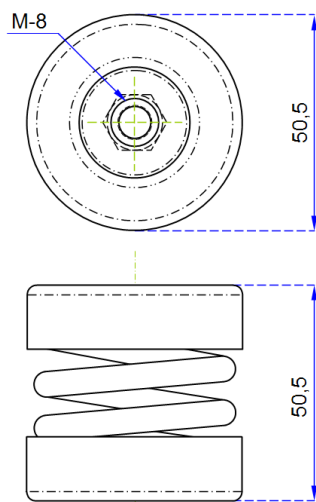
Information

- Metal spring isolators to isolate machinery with steady state from 1,000 rpm. The MINIVIB series isolators complements the VIB 100 series.
- This series of low-rise insulators is ideal for the isolation of machines with vertical silhouette and with a narrow base, and therefore with easy tendency to overturn due to external factors such as the wind and snow on roofs of buildings.
- Its effectiveness is maximized for vibroacoustic isolation of machines and installations because its damping component is almost zero.

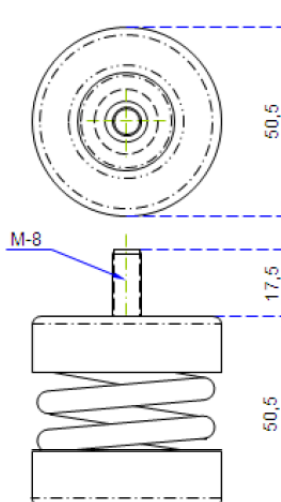


Description and dimensions

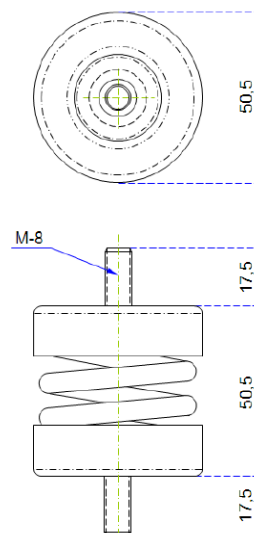
1. Standard steel spring high strength s / DIN and later shot peening treated to prolong their resistance to fatigue EPOXY protection.
2. Steel frame attached to the spring mechanically by metal rivet.
3. flexible inner cover of closed cell polyethylene, to prevent entry of solids and prevent damage to the active coils in compression.
4. metal base with nerve to increase its rigidity. The holes are slotted to facilitate centering and fixation to the ground.



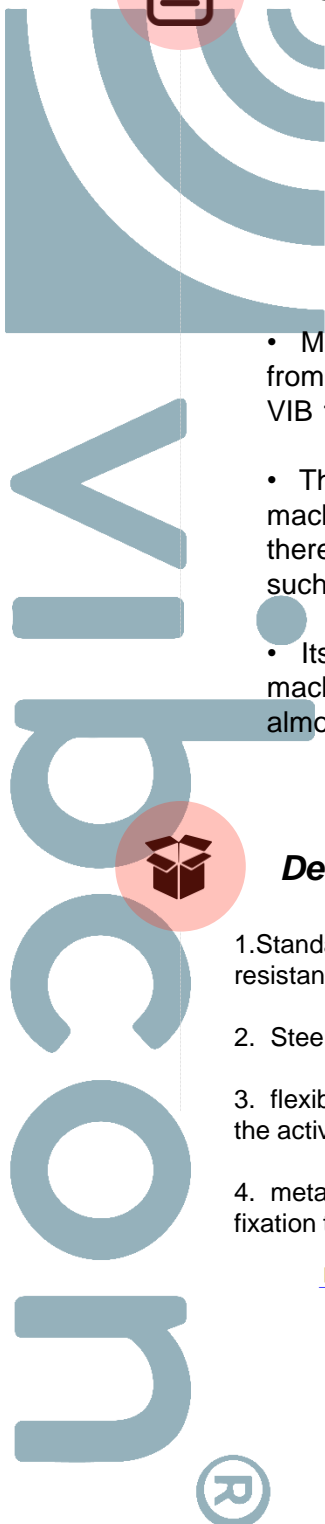
MINIVIB S



MINIVIB T



MINIVIB 2T

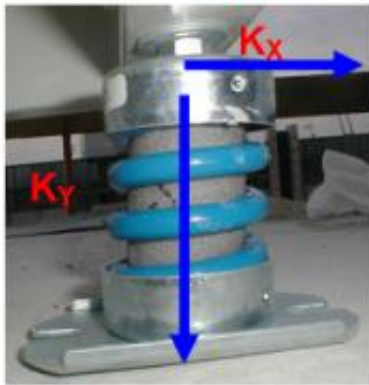




Physic Analysis

Vibcon Model	Minimum static load and maximum compression in daN (1)					Aislator weight
	MIN load	MIN Arrow	MAX load	MAX Arrow	OPTIMAL Load	
MINIVIB 015	2	1,2 mm	15	12 mm	3-14	150 g
MINIVIB 025	3		25		5-23	160 g
MINIVIB 050	5		50		10-45	170 g
MINIVIB 075	8		75		15-68	170 g
MINIVIB 100	10		100		20-90	170 g

Note: 1 daN = 1,02 kp = 1,02 kgf



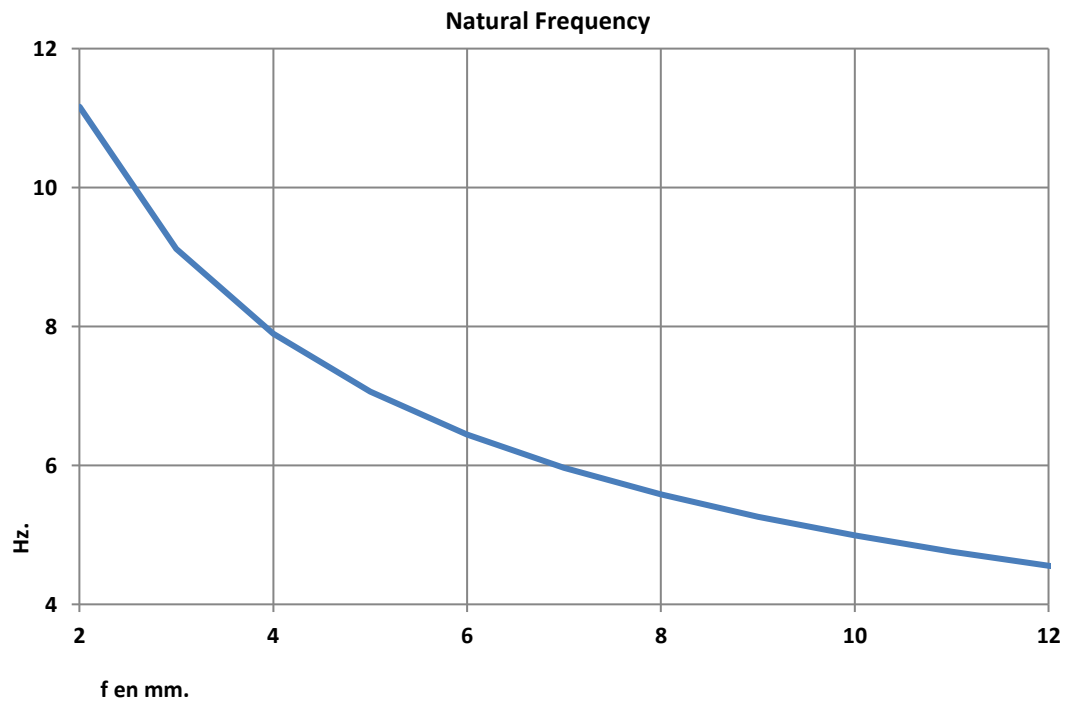
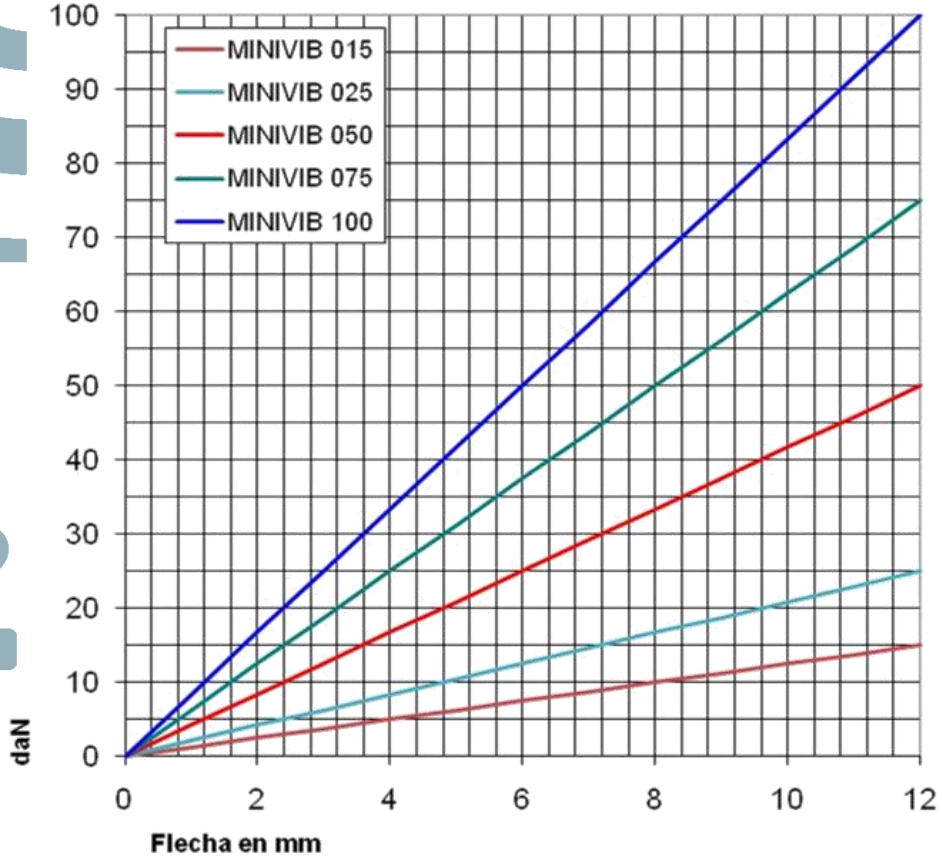
- Working temperature range: -90°C a 200°C
- Stiffness ratio: $K_x/K_y=1,6$

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Graphics



If the vibration mode is radial (lateral) then its natural frequency graph will be multiplied by a factor 1.6.

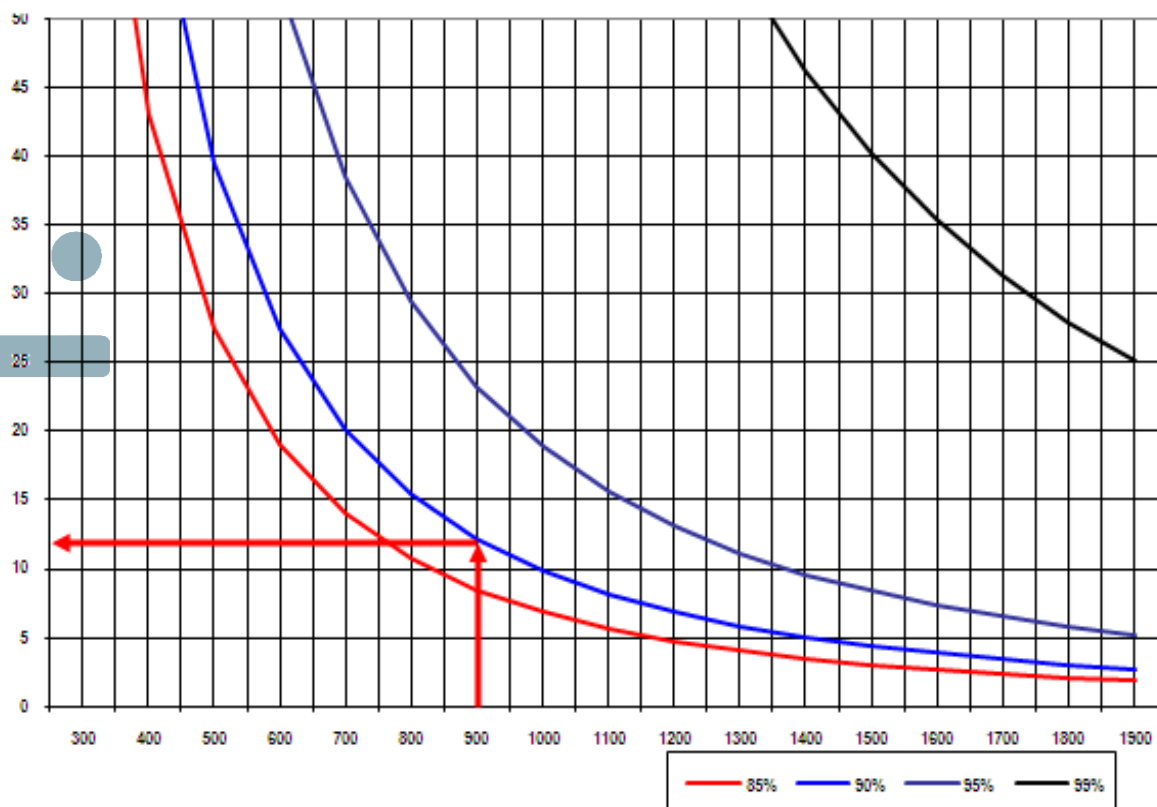


Isulation Grade Graphic

This graph is used to select the precise compression deflection for obtaining an insulation grade, expressed in %, depending on the minimum revolutions of the equipment.

This graph is only valid for Vibcon metal spring insulators and is not applicable for any other counter-type on the market.

EJE X: rpm máquina **EJE Y: flecha de los VIB1000 en mm**



EXAMPLE: Air-water cooling plant: fans at 900 rpm and compressors at 1500 rpm.

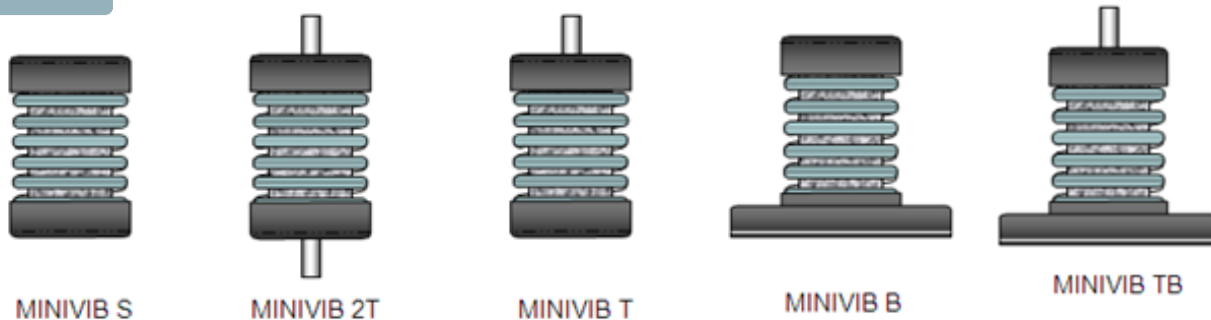
- The TURBULENCE FREQUENCY is taken as the minimum revolution, i.e., the rpm of the fans=900 rpm.
- For compliance with the RITE an insulation of $\geq 90\%$ is required.
- A vertical line is drawn on axis x in 900 until it intersects with the curve of 90%
- Then a horizontal line is drawn from the intersection point obtained to the axis, to OBTAIN THE MINIMUM DEFLECTION (12mm) the load insulation must comply with the insulation conditions based on RITE.
- If once under load the insulator is compressed to obtain a deflection of $>12\text{mm}$, it will be compliant with RITE.

CRITERION FOR SELECTIONG THE INSULATION GRADE

ZONE	Description	GRADE IN %
NON-CRITICAL ZONE	Industrial warehouses on industrial estates Basements. Areas far from places that are sensitive to structural noise and vibrations.	85%
CRITICAL ZONE	Roofs of apartment blocks, offices or public buildings. Zones that are sensitive to the transmission of structural noise and vibrations.	90-95 %
VERY CRITICAL ZONE	Auditoriums, theatres, cinemas, congress halls, hospitals, etc. Zones in which very low levels of noise and vibrations are required.	>95%

Versions and assembly

They can be supplied in different versions to facilitate assembly.



The rectangular bases incorporate standard non-slip mats or can be supplied vibroacoustic mats.

Aplications

- Outdoor air conditioning units
- axial and radial fans
- Vertical air conditioning equipment
- Motors and pumps
- Pipe sections
- compressors
- electrical panels and boxes contactors
- Etc.

The logo for vibcon features a stylized icon on the left consisting of three white, curved, parallel lines that resemble sound waves or a fan. To the right of this icon, the word "vibcon" is written in a bold, lowercase, white sans-serif font. A registered trademark symbol (®) is positioned at the top right of the letter 'n'.

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Vibroacústica Control y Aislamiento S.L.