

FZM Wire Mesh Vibration Isolators

Stainless steel wire mesh vibration isolators for high-temperature applications, providing similar stiffness in compression and tension.



The **AMC-MECANOCAUCHO® FZM wire mesh vibration isolators** use a **stainless steel wire mesh elastic element**, specifically designed for environments where conventional elastomers are not suitable. They can operate at **temperatures up to 300 °C** and provide excellent resistance to harsh environmental conditions.

Their design provides **similar stiffness characteristics in compression and tension**, resulting in relatively symmetrical performance when equipment is subjected to alternating vertical motion. This characteristic is particularly beneficial for **mobile and on-board applications** exposed simultaneously to vibration, shock, and acceleration.

The wire mesh also provides **mechanical damping through internal friction**, dissipating vibrational energy and controlling equipment motion. The isolator incorporates an **integrated mechanical fail-safe feature** capable of withstanding tensile loads and maintaining equipment retention.

FZM vibration isolators are particularly suitable for **on-board equipment, mobile machinery, and industrial installations** exposed to high temperatures or severe operating conditions.



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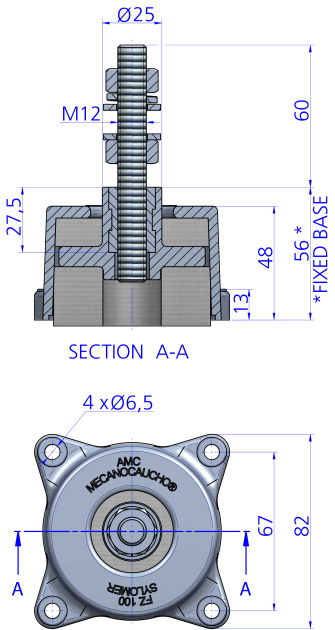
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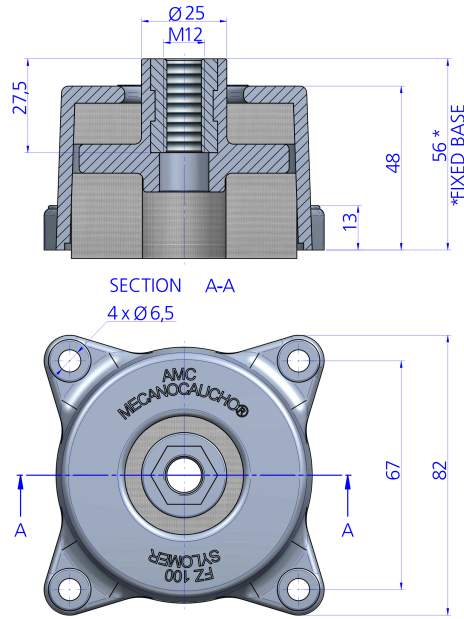
Drawings

FZM 100-015 + KIT M12 / FZM 100-023 + KIT M12 / FZM 100-028 + KIT M12



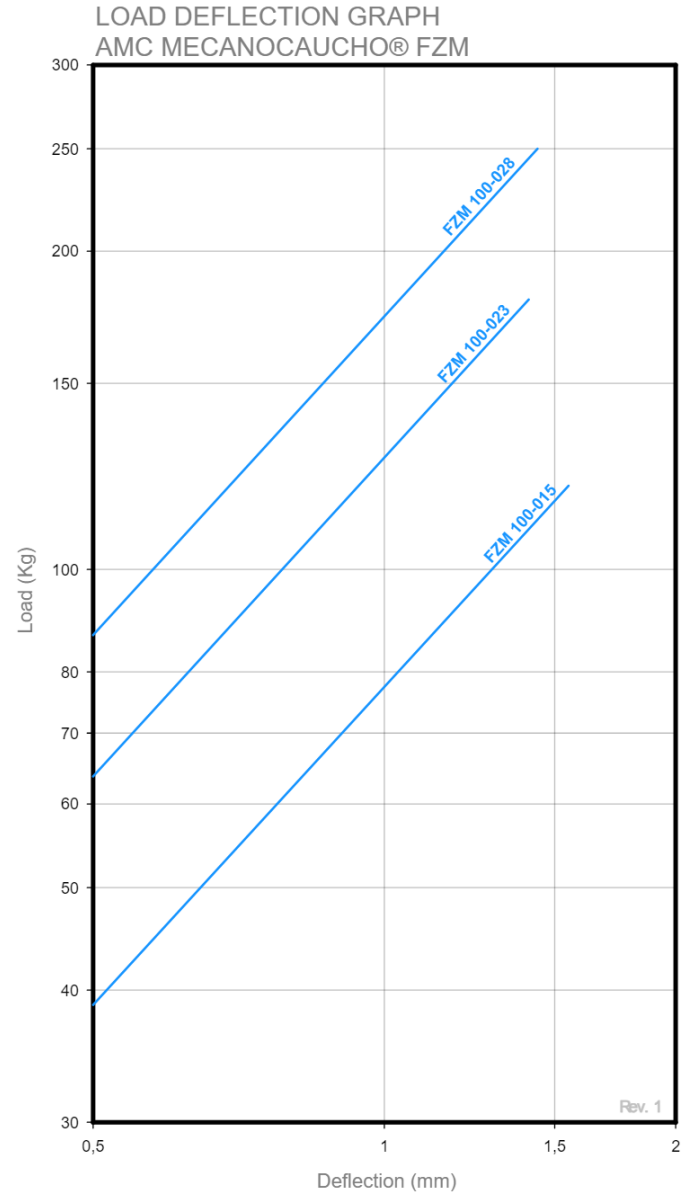
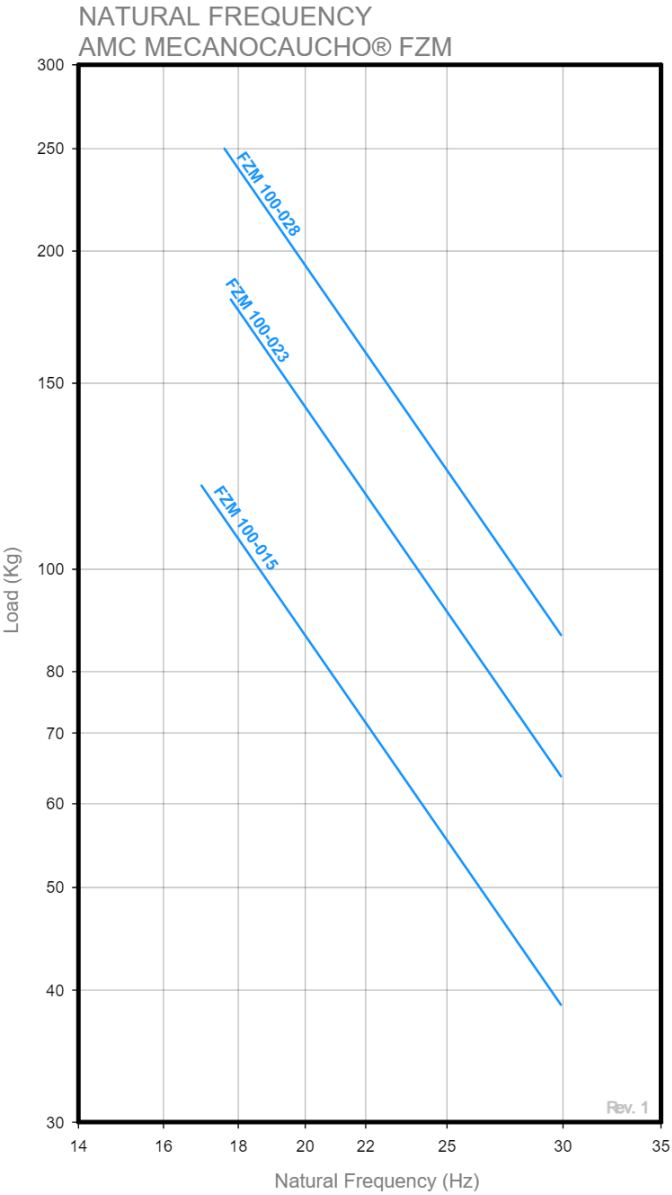
Type	Max. Load(lbs)	Weight(lbs)	Code
FZM 100-015 + KIT M12	264	2	176622
FZM 100-023 + KIT M12	397	2	176628
FZM 100-028 + KIT M12	551	2	176634

FZM 100-015 / FZM 100-023 / FZM 100-028



Type	Max. Load(lbs)	Weight(lbs)	Code
FZM 100-015	264	2	176621
FZM 100-023	397	2	176627
FZM 100-028	551	2	176633

Elastic properties



Technical characteristics

The cast aluminum bell has been designed to withstand to great dynamic shocks while the stainless steel wire fits tight to avoid relative displacements.

The stainless steel wire mesh and the aluminum top cap provide a higher resistance to marine corrosive environments, improving the performance of traditional marine antivibration mounts. The failsafe device limits the vertical ascendant movement. The damping properties of the stainless steel wire mesh allows low amplification to resonance allowing stable suspended elements.



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