Vibrabsorber Spring Isolator with Adjustable Viscous Damping

Spring isolator with mechanically adjustable viscous damping, Sylomer® base, and precompression system for easier installation.



The **AMC-MECANOCAUCHO® Vibrabsorber Spring Isolator with Adjustable Viscous Damping** combines a **steel spring** with an **integrated viscous damper**, providing effective low-frequency vibration isolation together with precise control of suspended system movement.

The damper incorporates a chamber containing a **thermally stable viscous fluid** and a specially designed piston that allows **mechanical adjustment of the fluid passage**. By varying this opening, the fluid flow through the piston can be controlled, allowing the **damping level to be adjusted** according to the requirements of the installation.

This design allows the **damping to be mechanically adjusted without changing the spring or replacing the damper**, making it easier to optimize the dynamic behavior of the equipment after installation.

A rubber-to-metal bonded membrane ensures **sealing of the chamber** and prevents fluid leakage. The **Sylomer® base** complements the spring by improving high-frequency vibration isolation.

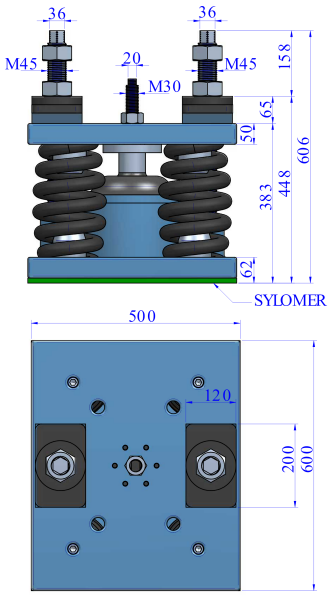
The spring isolator can also be **precompressed using tie rods**, facilitating installation or replacement **without having to lift the machine**.

AMC MECANOCAUCHO
Industrialdea Zona A - Pab. 35.
Asteasu E-20159, Gipuzkoa
Spain
Tel.: +34 843 74 00 13
sales@amcsa.es
www.mecanocaucho.com

In order to adapt its products to the state of the art, Aplicaciones Mecánicas del Caucho, S.A. reserves the right to modify the conception and manufacture of the materials presented in this catalog without prior notice.
Document generated on 15/11/2026.

Drawings

Vibrabsorber visco-elastic spring with adjustable damping



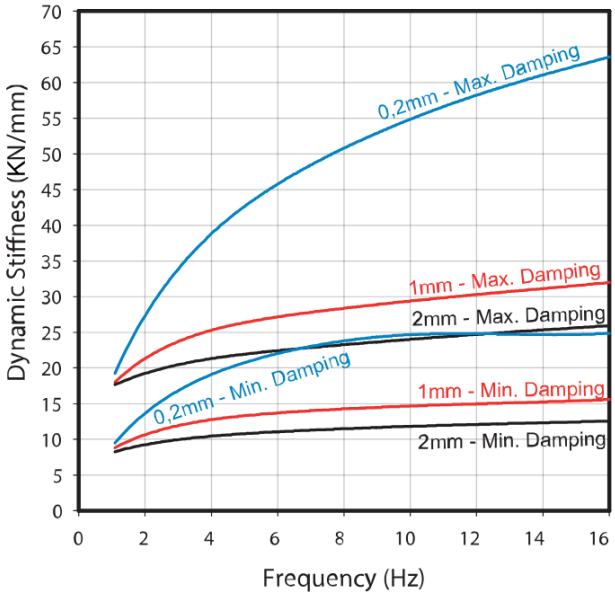
Type	Code	Max. Load(lbs)	K(N/mm)
Vibrabsorber visco-elastic spring with adjustable damping	20991	77140	6000

AMC MECANOCAUCHO
Industrialdea Zona A - Pab. 35.
Asteasu E-20159, Gipuzkoa
Spain
Tel.: +34 843 74 00 13
sales@amcsa.es
www.mecanocaucho.com

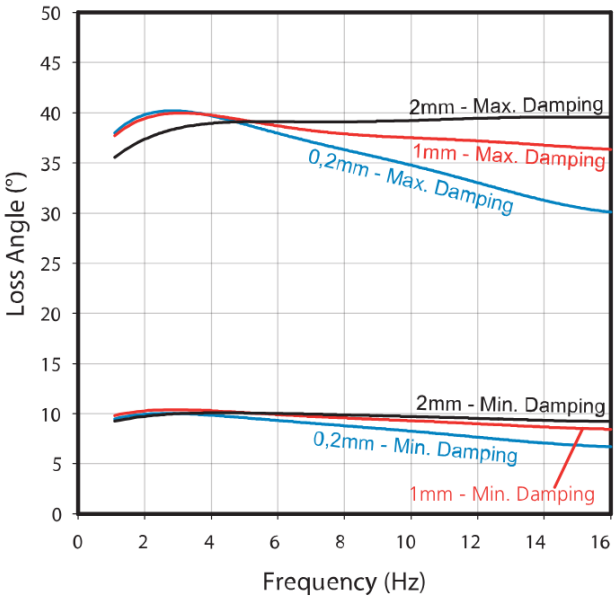
In order to adapt its products to the state of the art, Aplicaciones Mecánicas del Caucho, S.A. reserves the right to modify the conception and manufacture of the materials presented in this catalog without prior notice.
Document generated on 15/11/2026.

Elastic properties

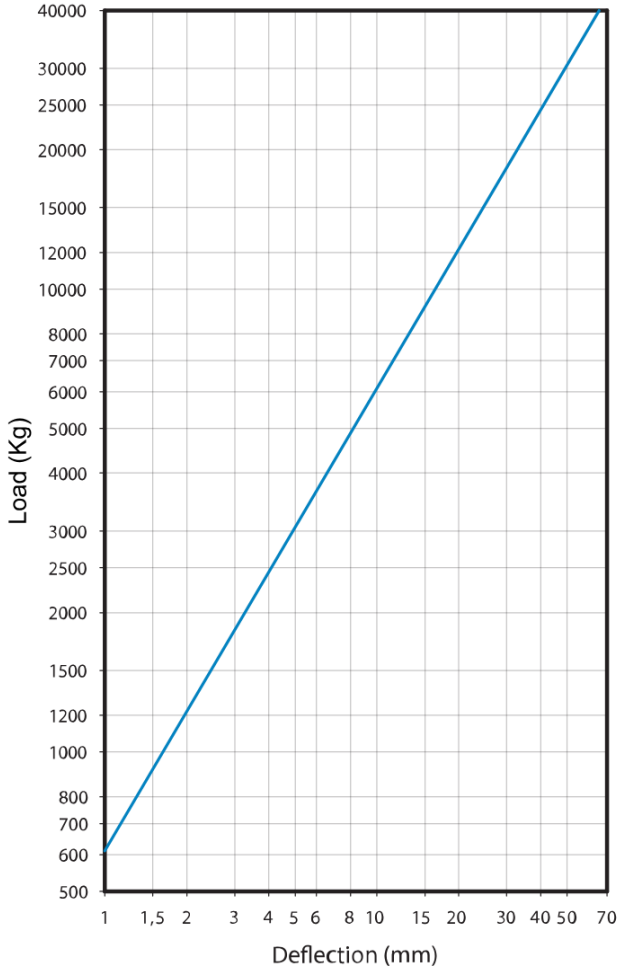
AMPLITUDE DEPENDANT DYNAMIC STIFFNESS
ADJUSTABLE VISCOELASTIC SPRING



AMPLITUDE DEPENDANT LOSS ANGLE
ADJUSTABLE VISCOELASTIC SPRING



LOAD DEFLECTION CURVE
ADJUSTABLE VISCOELASTIC SPRING



AMC MECANOCAUCHO
Industrialdea Zona A - Pab. 35.
Asteasu E-20159, Gipuzkoa
Spain
Tel.: +34 843 74 00 13
sales@amcsa.es
www.mecanocaucho.com

In order to adapt its products to the state of the art, Aplicaciones Mecánicas del Caucho, S.A. reserves the right to modify the conception and manufacture of the materials presented in this catalog without prior notice.
Document generated on 15/11/2026.

Technical characteristics

This anti vibration mount incorporates Sylomer® buffers to limit the maximum vertical displacement of the suspended equipment.

Furthermore, the base of the spring includes a Sylomer® layer to reduce the transmission of high frequency vibrations and structural borne noise that can be transmitted through the coil springs.

This Vibrabsorber anti vibration mount is tailored for each application, and their static stiffness and minimum and maximum dynamic stiffness and loss angle at each amplitude can be set to reach the optimum values for the application.

Advantages

Improved isolation

It offers improved isolation compared to conventional anti-vibration mounts of similar geometry.

Superior damping that reduces amplification and controls movement

The superior damping enhances equipment stability: when passing through resonance during startup and shutdown, energy is absorbed, resulting in reduced amplitude.

Incorporates Sylomer® elastomer, highly effective for isolating both high and low frequencies

Sylomer® provides high isolation across a wide frequency range and is particularly effective at high frequencies, effectively eliminating the transmission of structure-borne noise.

AMC MECANOCAUCHO
Industrialdea Zona A - Pab. 35.
Asteasu E-20159, Gipuzkoa
Spain
Tel.: +34 843 74 00 13
sales@amcsa.es
www.mecanocaucho.com

In order to adapt its products to the state of the art, Aplicaciones Mecánicas del Caucho, S.A. reserves the right to modify the conception and manufacture of the materials presented in this catalog without prior notice.
Document generated on 15/11/2026.