2V-SH Anti-Seismic Spring Isolator VISCO

Two-spring anti-seismic spring isolator with integrated viscous damper, designed to combine low-frequency vibration isolation, dynamic control, and seismic protection.

The **AMC-MECANOCAUCHO® 2V-SH Anti-Seismic Spring Isolator** combines **two high-deflection steel springs** with an **integrated viscous damper**, providing effective vibration isolation while improving control of equipment movement.

The springs provide a **low natural frequency** for effective low-frequency vibration isolation. The **viscous damper** dissipates energy and limits movement amplitudes during transient conditions, startup, shutdown, and significant dynamic excitation.

The additional viscous damping is particularly beneficial for equipment with a highly eccentric mass distribution or significant rocking and rotational motion. It improves the dynamic stability of the spring-mounted system and, in suitable applications, can avoid the need for additional inertia masses or inertia bases.

The **integrated seismic restraint system** limits excessive equipment displacement under seismic conditions while allowing the movement required for effective vibration isolation during normal operation. Its **fail-safe design** contributes to the mechanical security of the installation.

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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.
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The **epoxy-coated finish** provides good corrosion resistance, making the spring isolator suitable for **demanding industrial environments**.

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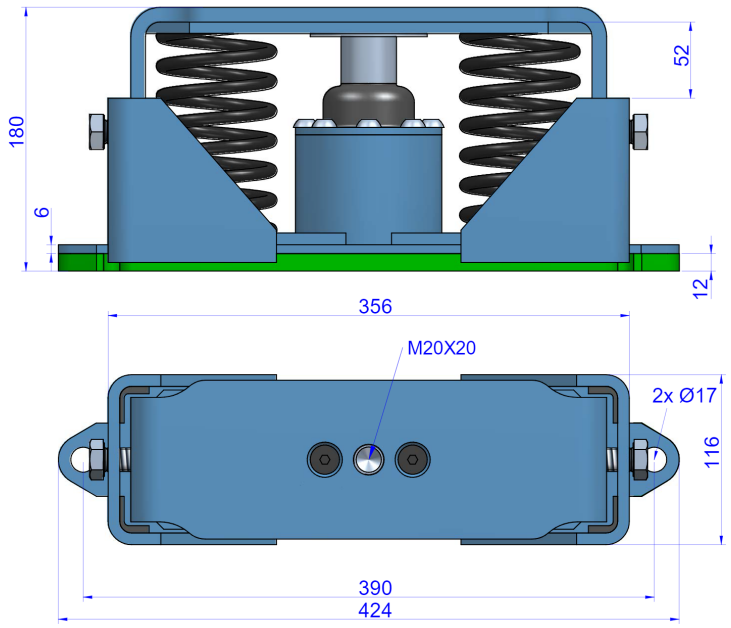
Drawings

2V-SH ANTI SEISMIC VISCO MOUNT



Type	Code	Spring color	No. Springs	Max. Load (lbs)	Deflection(in)	K(N/mm)
2V-SH ANTI SEISMIC VISCO MOUNT	21600	BLUE	2	295	1.97	27
	21601	WHITE	2	419	1.97	37
	21602	BLACK	2	542	1.97	50
	21603	BEIGE	2	763	1.97	69
	21604	RED	2	983	1.97	86
	21605	GREY	2	1477	1.97	137
	21606	GREEN	2	1966	1.97	176
	21607	BROWN	2	3086	1.97	301

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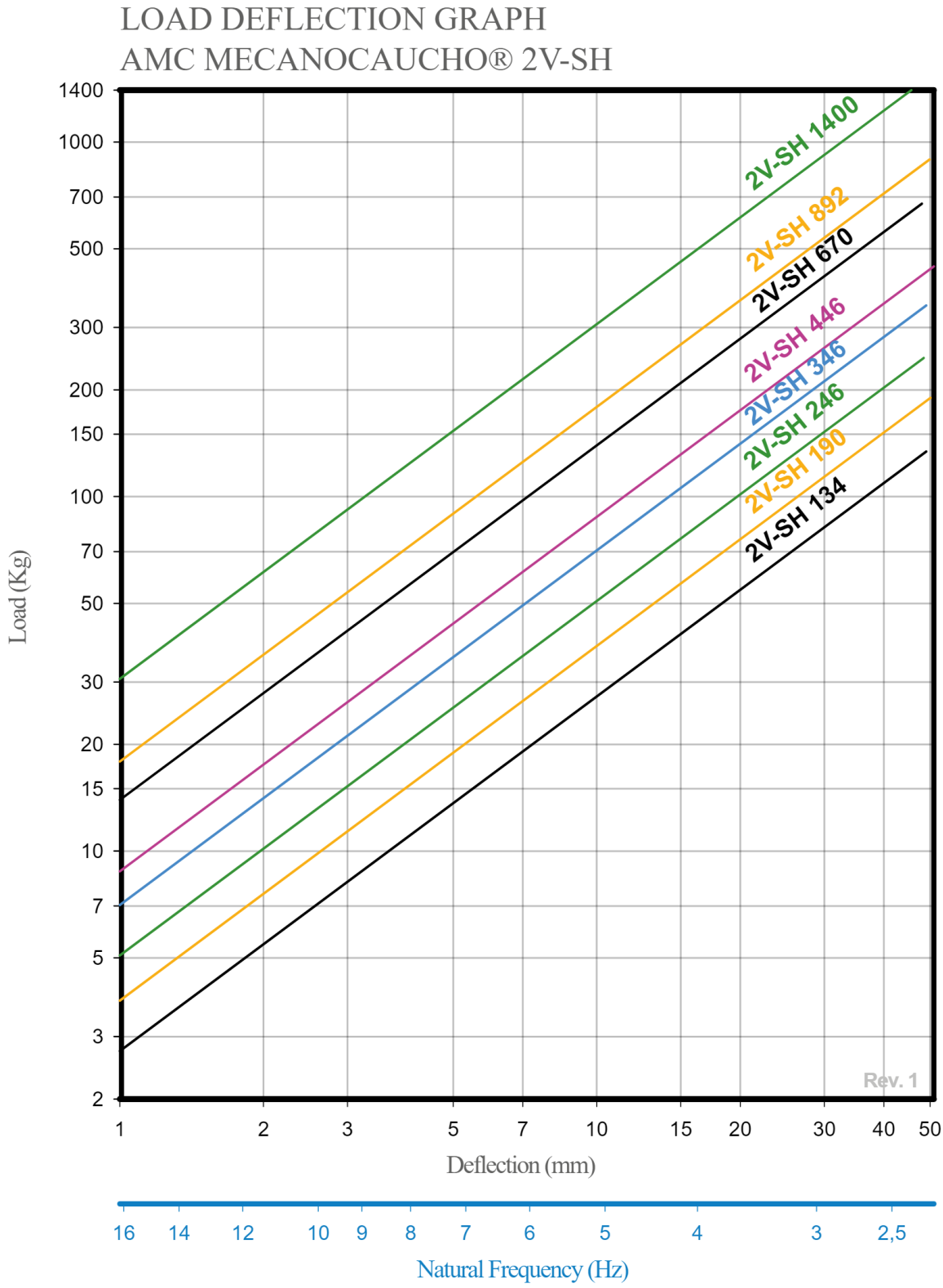
Elastic properties



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Technical characteristics

The AMC-MECANOCAUCHO® **Antiseismic with viscous damper spring mountings**, the lateral buffers incorporate a combination of Sylomer and steel, structurally capable of withstanding to high lateral forces that occur on seismic events.

A layer of Sylomer underneath the mount allows isolation to high frequencies capable of getting through the steel coil springs, allowing a high isolation of noise.

The viscous damper allows critical dampening ratios of above 30%.

The mount is coated in Cataphoreses electro coating to resist at extreme corrosive environments.

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.

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