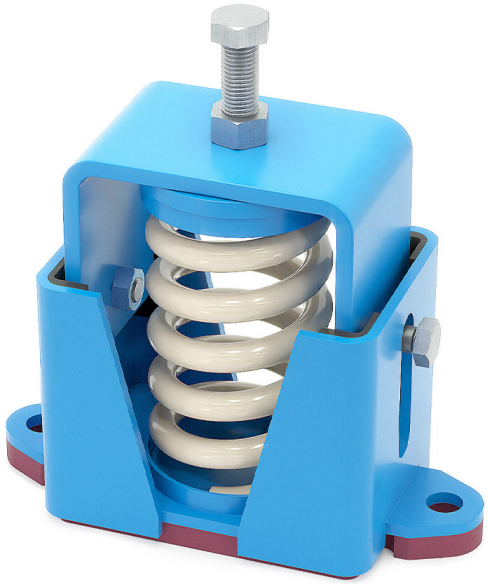
1V-SH Anti-Seismic Spring Isolator

High-deflection anti-seismic spring isolator designed to achieve a natural frequency as low as 3 Hz and provide high-performance low-frequency vibration isolation.



The **AMC-MECANOCAUCHO® 1V-SH Anti-Seismic Spring Isolator** is designed for equipment requiring **high-performance low-frequency vibration isolation**, combined with mechanical protection under seismic conditions.

With a **static deflection of up to 50 mm (2 inches)**, the springs can achieve **natural frequencies as low as 3 Hz**, providing effective isolation for low-speed equipment or machinery generating very low-frequency vibration.

A **Sylomer® layer** complements the action of the springs by reducing the transmission of **mid- and high-frequency vibration** that may propagate through the steel springs. The combination of **spring + Sylomer®** therefore provides effective vibration isolation over a wide frequency range.

The spring isolator also incorporates an **integrated leveling system** for precise equipment height adjustment and an **anti-slip rubber base**.

Under exceptional or seismic loads, the **integrated seismic restraint system** limits excessive equipment movement while allowing the movement required for effective vibration isolation under normal operating conditions.

The 1V-SH range is particularly suitable for **HVAC equipment, refrigeration units, air handling units, pumps, fans, compressors, and generator sets** requiring high-performance very low-frequency vibration isolation.

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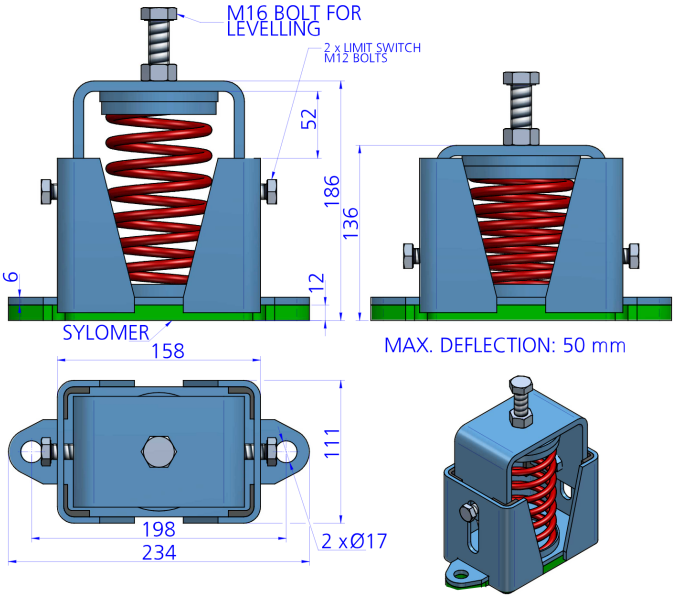
Drawings

1V-SH ANTI SEISMIC + SYLOMER



Type	Code	Spring color	Max. Load(lbs)	K(N/mm)	Weight(lbs)
1V-SH ANTI SEISMIC + SYLOMER	20653	BLUE	148	13	13
	20654	WHITE	209	19	13
	20655	BLACK	271	25	13
	20656	BEIGE	381	35	13
	20657	RED	491	43	14
	20658	GREY	738	68	14
	20659	GREEN	983	88	15
	20661	BROWN	1543	150	15

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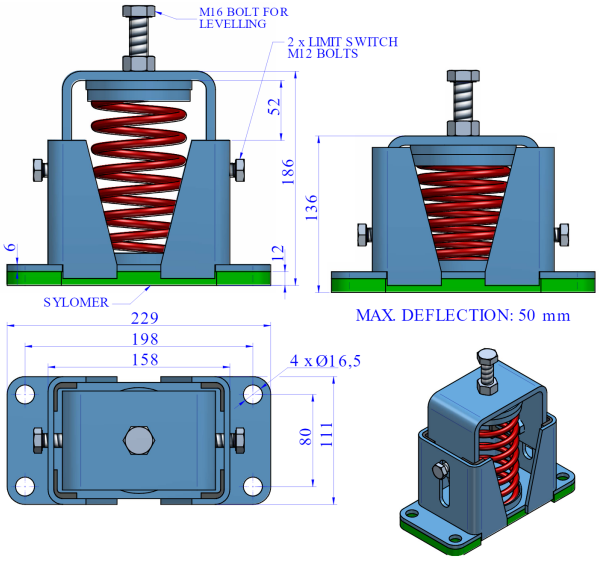
1V-SH ANTI SEISMIC + SYLOMER 4 Holes



Type	Code	Spring color	Max. Load(lbs)	K(N/mm)	Weight(lbs)
1V-SH ANTI SEISMIC + SYLOMER 4 Holes	21568	BLUE	148	13	13
	21569	WHITE	209	19	13
	21570	BLACK	271	25	13
	21571	BEIGE	381	35	14
	21572	RED	491	43	15
	21573	GREY	738	68	15
	21574	GREEN	983	88	16
	21575	BROWN	1543	150	16

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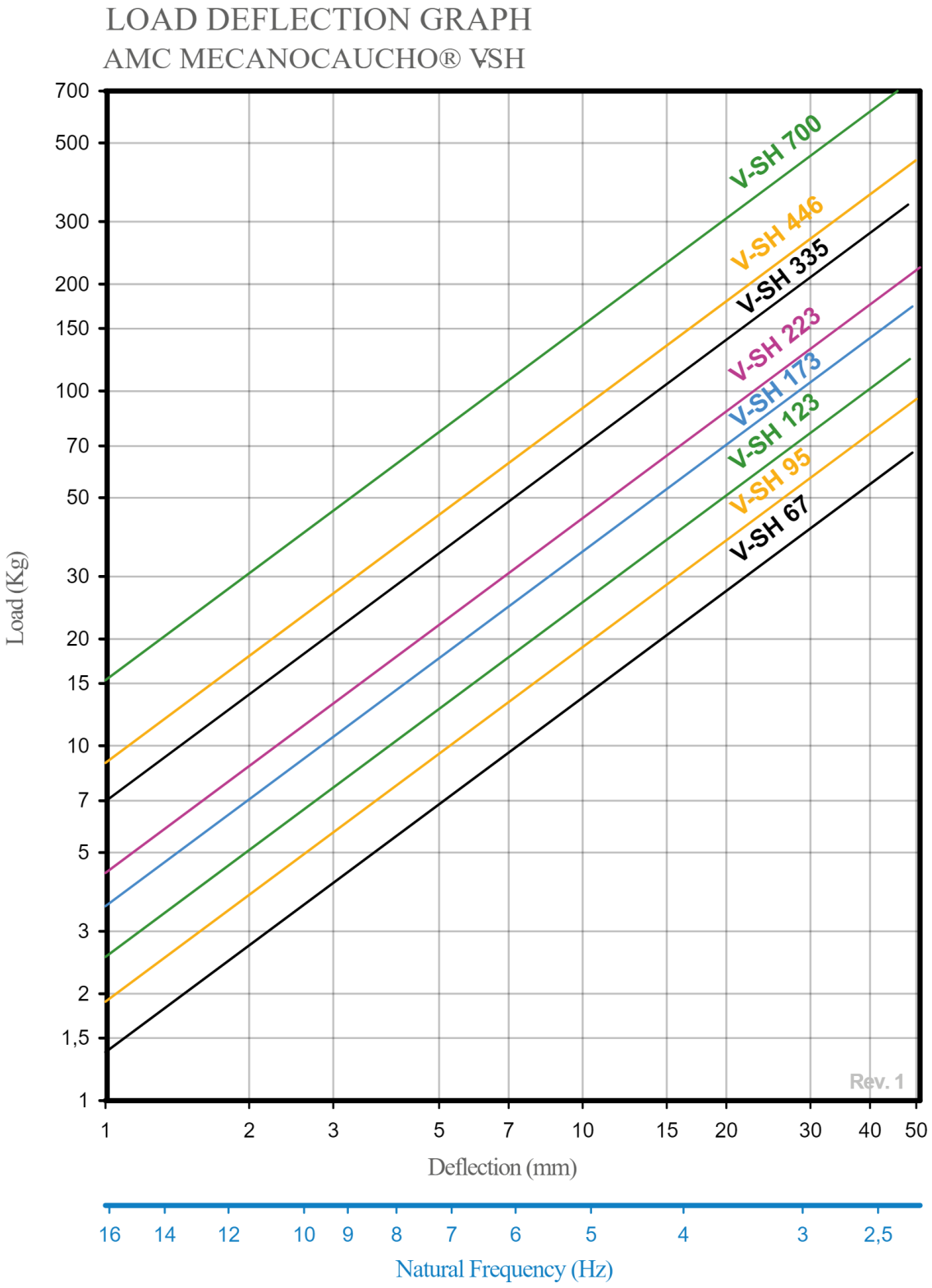
Elastic properties



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Technical characteristics

The mounts are able to reach low natural frequencies from 3 to 5 Hz. The spring combined with Sylomer® is able to provide high isolation at low-medium-high frequencies.

The curves are showing the deflection and natural frequencies according to the load of the spring. Working range temperature from -30°C to +70°C. Short term higher temperatures are possible.

Advantages

Easy installation

This mount requires no major modifications to the structure for installation.

Improved isolation

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

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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